


*City of Alexandria, Virginia*

MEMORANDUM

DATE: NOVEMBER 16, 2006

TO: THE HONORABLE MAYOR AND MEMBERS OF CITY COUNCIL

FROM: JAMES K. HARTMANN, CITY MANAGER 

SUBJECT: 2006 ANNUAL REPORT AND PLANT SURVEY FROM COMCAST CABLE COMMUNICATIONS, INC.

**ISSUE:** Receipt of the 2006 Annual Report and Plant Survey from Comcast Cable Communications, Inc. (Comcast).

**RECOMMENDATION:** That Council receive the Comcast 2006 Annual Report and Plant Survey (Attachment).

**DISCUSSION:** Section 9-3-513 (a) of the City Code requires the cable television franchisee to submit an annual written report to the City Council which summarizes the company's previous year's activities in operating the Alexandria cable television system. The 2006 report, which covers the fiscal year of July 1, 2005 through June 30, 2006 (the 12th year under the 15-year cable franchise), summarizes the company's activities with respect to programming and customer service, physical plant and system operations, and describes the company's financial condition for the calendar year ending December 31, 2005. The Commission on Information Technology reviewed the results of the reports at its November 13 meeting and approved the staff analysis.

The full report runs more than 300 pages. Due to its size, the entire report is not attached, but it may be reviewed in the City Clerk's Office. Several sections of the report are attached for your information: the cover letter; summary of local origination and community programming; and the independent auditor's reports. Following is a summary of the major accomplishments described in the Annual Report and the actions taken by the franchisee to comply with City and federal requirements.

**Programming:**

- Local Origination and Community Programming  
During FY 2006, Comcast's combined community and local origination programming on Channel 69 met the 30 hours or more overall requirement and, in most cases, exceeded

the franchise requirement of at least ten hours per week be original, unrepeated programming of interest to Alexandria residents. Comcast continues to encourage citizen participation in Community Programming certification classes. During FY 2006, Comcast certified seven people in community programming.

- **Programming and Channel Changes**

New channels launched on the digital tier include PBS Kids Sprout, MoviePlex, Lifetime Movie Network, LOGO (gay and lesbian themed), AZN (a new network aimed at the Asian-American population), Indieplex (independent films), Retroplex (classic movies), WNVC Nigerian TV, WNVC Russian World TV, WNVC Link TV, and Current TV (viewer-created content).

ESPN2 was added to the High Definition service. Comcast also launched the Family Tier to better meet the needs of residents with concerns on television programming and content. All Family Tier channels are rated G, and are available as a supplement to the Limited Basic Service tier.

Channels moved included VH-1 Soul to Digital Classic and VH-1 Country to Digital Plus service. Comcast also consolidated two tiers of Hispanic programming into one – the CableLatino Package, which consists of Discovery en Español, CNN Español, Fox Sports Español, Toon Disney Español, MTV Español, History Channel Español, CineLatino, CASA, Grandes Documentales, Gol TV, Canal Sur, Canal 24, EWTN en Español. Canal 52 was moved to Digital Classic.

Channels repositioned on Expanded Basic include G4/Tech TV and the Travel channel. Channels repositioned on Limited Basic include C-SPAN, C-SPAN2, MHz, MHz2, WGN, Telemundo, Univision, and Telefutera.

Several feeds from channels such as Encore, Sundance, Cinemax, Showtime, Starz! The Movie Channel and HBO were removed from their tiers in the channel lineup to accommodate channel changes, additions, and repositionings.

### **Physical Plant and System Operations:**

- **System Construction**

During FY 2005, Comcast expanded the physical plant by adding 1.20 miles of underground cable plant, including coaxial and fiber cables. They continue to work with VDOT on the Wilson Bridge relocation project, and have completed the relocation on the cable plant for the Wilson Bridge. Other ongoing projects include working with staff on the renovation of the Public Safety Center on Mill Road and with the Police Department upgrading the equipment in the CARES project.

- Service Outages  
Staff's review of the Annual Report showed that during FY 2005, the number of outages increased from 76 to 172 in 2005. An outage is defined as a service interruption affecting three or more subscribers connected to the same node. Comcast reports that of the 172 outages: 44 (eight more than last year) were due to Comcast equipment failure, such as damaged motherboards, feeder connectors, and modules in the nodes. Of the remaining 128 outages, two were the result of Dominion Virginia Power system outages (two less than last year), 116 were a result of damage to the plant by contractors who did not consult with MISS UTILITY prior to digging activities or ignored Comcast's cable line markings (111 more than last year), five were caused by electrical power outages due to electrical shortages and power surges (two more than last year), and the remaining five outages self-corrected.

Sixty-six of the outages lasted longer than four hours (61 more than last year). The City Code requires Comcast to credit subscribers with a prorated share of the monthly charge if the subscriber is without service or if service is substantially impaired for any reason for more than four hours during a 24-hour period. Comcast staff issued the appropriate credits to the affected customers. Staff will continue to monitor system outages and ensure that credits are given where appropriate.

- Plant Survey  
Section 9-3-153 (c) of the City Code requires the franchisee to submit a complete survey of its plant, including electronic measures to determine any signal leakage above the FCC requirements, and to assure the City that Comcast is complying with FCC technical standards. Comcast conducted tests twice during the fiscal year. The FCC Proof-of-Performance tests were conducted by Comcast staff July 1 through August 20, 2005 and January 1 through February 16, 2006. Signal leakage tests were conducted for Comcast by Comcast Corporate Engineering/Compliance staff on August 27, 2005 and February 18, 2006. A system flyover test was conducted on August 19, 2005 by The Flyover Company, LLC, which specializes in aerial cable leakage inspections. Comcast Cable of Alexandria had an FCC system score of 100%, with 100% of the system being tested, and was determined to be in excellent condition. All tests indicated that the results complied with FCC technical standards.

#### **Customer Service:**

- Subscriber Trouble Calls  
During the reporting period, Comcast responded to 13,157 subscriber trouble calls, an increase of 2,147 calls, which is 20% more than last year. These trouble calls related to problems with customer equipment (televisions, VCRs, etc.), converter boxes, distribution/signals, and coaxial cable. The majority of these calls (6,780 or 52%) were in the "Tap to the TV Set" category (the "tap" is the connecting equipment from the pole to the house). The majority of the tap to TV set problems result from bad connectors or splitters between the tap and the customer's TV due to age, corrosion, exposure to the

elements, or fittings that had been improperly tightened by customers. Converter problems accounted for 3,105 or 23% of the trouble calls, and the remaining 25% of calls were a result of customer equipment, miscellaneous problems, or no trouble found/subscriber not home.

- Customer Service Standards

The City Code requires Comcast to report quarterly on telephone accessibility. The Code requires Comcast's service representatives to answer their telephones within 30 seconds, 95 percent of the time. This standard exceeds the federal standard which requires that the telephones be answered within 30 seconds, 90 percent of the time. During the reporting period, Comcast's quarterly data indicate that the percentage of telephones answered within 30 seconds was as follows: July (73.70%), August (75.55%), September (74.68%), October (81.55%), November (82.45%), December (76.99%), January (82.27%), February (80.45%), March (74.76%), April (74.45%), May (70.26%), June (65.07%). Since Comcast's average response time statistics for each quarter did not meet the 95 percent standard, the company was fined four times for a total of \$800. According to Marie Schuler, the Director of Government Relations for Comcast, traditional call volume averages 28,000 calls per month; however, during this period, Comcast averaged 36,000 calls per month. Comcast also launched a new product, Comcast Digital Voice which increased the number of calls.

<b>Statistics FY 2004</b>	<b>Statistics FY 2005</b>	<b>Statistics FY 2006</b>
July 97.6%	July 88.11%	July 73.70%
August 81.6%	August 82.85%	August 75.55%
September 86.5%	September 88.62%	September 74.68%
October 89.4%	October 91.60%	October 81.55%
November 88.3%	November 88.85%	November 82.45%
<b>Statistics FY 2004</b>	<b>Statistics FY 2005</b>	<b>Statistics FY 2006</b>
December 89.9%	December 79.32%	December 76.99%
January 90.88%	January 81.59%	January 82.27%
March 92.33%	March 86.51%	March 74.76%
April 93.87%	April 87.01%	April 74.75%
May 93.31%	May 85.05%	May 70.26%
June 91.1%	June 71.6 %	June 65.07 %

Comcast continues to provide customer service training for its service representatives to ensure that they accurately respond to customer queries and problems. They also monitor telephone calls and provide employee coaching as needed.

**Financial Information:**

Dan Neckel, Director of Finance, reviewed the financial information provided by Comcast and noted the following:

- **Audited Gross Receipts:**  
The schedule and accompanying audit opinion address the gross receipts recorded in accordance with the June 1994 cable franchise agreement between the City of Alexandria and Comcast which is used to determine the franchise fees to be paid to the City. Deloitte & Touche, LLP, the external auditors, found that the revenues associated with this agreement for the year ending December 31, 2005 were \$39,706,307. This represents an increase of 5.8 percent or \$2.2 million when compared with the audited gross receipts for 2004. The external audit opinion is a clean opinion, indicating that the revenues as stated can be relied upon by the City.
- **Unaudited Financial Statements:**  
The unaudited financial statements for Comcast of Virginia, Inc. (Alexandria system) for the year ended December 31, 2005. The statements show that the Alexandria operations of Comcast earned \$1.6 million for the year, thus reducing the operation's Accumulated Deficit from \$21.5 million to \$19.9 million. During the year, Comcast increased their investment in the property and equipment in Alexandria by \$7.1 million bringing the total cost of the Alexandria property and equipment to \$94.8 million. The Comcast Alexandria operation has a long-term debt to affiliated companies of \$192.8 million. This is a decrease of \$11.6 million from the prior year's balance of \$204.4 million. The total Stockholders' Equity for Comcast Cablevision of Virginia, Inc. (Alexandria) as of December 31, 2005 consisted of the accumulated deficit of \$19.9 million.
- **Comcast Corporation Financial Report:**  
The Comcast Corporation Financial Report is the financial statement of Comcast Corporation and its subsidiaries as a whole. The financial information of Comcast of Virginia, Inc. (Alexandria) is such a small portion of the total operation that it is not mentioned separately in this report.

The Comcast Corporation is the largest cable operator in the country with 21.4 million video subscribers, 9.8 million digital cable subscribers, 8.5 million high-speed internet subscribers, and 1.3 million telephone subscribers. Comcast Corporation and its subsidiaries had a net income for the year of \$928 million on revenues of \$22,255 million. Its total stockholders' equity decreased from \$41,422 million to \$40,219 million. Comcast's external auditors issued Comcast Corporation and its subsidiaries a clean opinion indicating the financial statements present fairly, in all material respects, the financial position of Comcast Corporation and its subsidiaries.

**FISCAL IMPACT:** For calendar year 2005, the franchise fee to the City, based on three percent of gross receipts from all operations (\$37,535,263), was \$1,191,187.20. Franchise fees are considered general revenues that are deposited in the General Fund and help finance the City government expenditures and transfers.

**ATTACHMENTS:**

Attachment 1. Cover letter to Rose Williams Boyd from Marie Schuler dated August 30, 2006

Attachment 2. Summary of Local Origination and Community Programming

Attachment 3. Independent Auditors' Report

**STAFF:**

Rose Williams Boyd, Director, Citizen Assistance

Jacqueline Levy, Cable Television Administrator



Comcast Cable  
508 D South Van Dorn Street  
Alexandria, VA 22304  
Office: 703.567.4600  
Fax: 703.567.4444  
www.comcast.com

August 30, 2006

Ms. Rose Williams Boyd  
Director  
Office of Citizen Assistance  
City of Alexandria  
301 King Street Room 1900  
Alexandria, Virginia 22314

Dear Ms. Boyd,

Comcast is pleased to submit our 2006 Annual Report to the City of Alexandria, in accordance with Chapter 3 of Title 9 of the Alexandria City Code. Included are copies or summaries of the Year's Activities within Local Origination and Community Programming, a Summary of Customer Complaints, Financial Reports, Statements of Major Equipment and Capital Expenditures, Construction Plans, a list of Comcast Officers and Board of Directors, the Alexandria Employee Report, Television Channel Changes, Customer Opinion Survey, the Plant Report, and Customer Service Telephone Statistics for the period of July 1, 2005 through June 30, 2006.

This has been another busy year for the company, as we launched new channels and services to the residents of Alexandria. We added more HD channels, collapsed our Hispanic programming tier, launched a Family Tier of programming, and increased the number of hours of Video On Demand content. We have seen a significant increase in customers taking advantage of the wide array of products and services we offer.

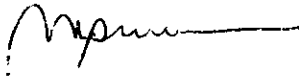
Comcast plans to continue its investment in the City bringing the latest programming and cutting edge technology to the community. Comcast Digital Voice (VOIP) and increased speed on our Comcast High Speed Internet have been positively received by the community. The technical staff has been working behind the scenes on Digital Simulcasting, which will have a positive impact on picture quality and clarity of the video services. A portion of the analog channels have been converted to digital; we hope to complete the transition of all the channels by the end of the year. Comcast is also working on the quadruple play through our partnership with Sprint/Nextel. We hope to be testing these services in the near future.

Community highlights from the past year are:

- ◆ Corporate sponsor of the Alexandria Waterfront Festival, benefiting the American Red Cross.
- ◆ Interviewed hundreds of non-profits and aired their segments on Headline News to promote community activities and events.
- ◆ Partnered with the City of Alexandria for the third annual Comcast Outdoor Film Festival at Ben Brenman Park.
- ◆ Corporate sponsor of the Alexandria Chamber of Commerce, supporting Chamber events including Leadership Alexandria.
- ◆ Sponsored the Alexandria Scholarship Fund Telethon, which raised over \$100,000 for T.C. Williams Graduates.
- ◆ We brought Comcast Cares to the City of Alexandria when we worked on a large landscaping project at George Washington Middle School.

Comcast and its employees pride themselves with being involved with the Community, and being in the forefront within the Company to deploy new services and technologies to our customers. We look forward to continuing this partnership in 2007.

Yours sincerely,



Marie Schuler  
Director of Government and Community Affairs





## **2006 ANNUAL REPORT**

### **YEAR'S ACTIVITIES SUMMARY** **Local Origination and Community** **Programming Service to the Community** **AUGUST 30, 2006**

**YEAR'S ACTIVITY SUMMARY**  
**Local Origination and Community Programming**  
**Service to the Community**

- Supported the Department of Human Services with their Foster Care program.
- Supported the Alexandria Technology Awards
- Supported the Alexandria Volunteer Bureau An Evening in the Heart of Alexandria Gala
- Provided Cable in the Classroom magazines in conjunction with the CIC program in Alexandria Public Schools
- Supported the Alexandria Chamber of Commerce with their Annual Golf Tournament
- Supported the Alexandria City Public Schools Family Involvement Rally
- Awarded a Comcast scholarship to a T.C. Williams graduate pursuing film studies at the Scholarship Fund of Alexandria Awards Ceremony
- Both filmed and participated in the USA/Alexandria Birthday Celebration at Founders Park
- Filmed and participated in the American Indian Festival, the African American Festival, the Italian Festival, the Irish Festival and the Chirlagua Festival.
- Promoted summer concerts throughout the area, Lunch Bunch Concerts, Ben Brenman Park Concert, Ft Ward Park Concerts, Waterfront Park Concerts, Montgomery Park Concerts, Henderson Park Concerts, and the King Street Gardens Concert.
- Sponsored the Philanthropy Summit Awards
- Donated to the T.C. Williams Drug and Alcohol Free Graduation Party
- Participated in the United Way campaign
- Supported the Alexandria Chamber of Commerce "Total Resource" Campaign
- Sponsor of Leadership Alexandria
- Participated with the Region in Comcast Cares Day at George Washington Middle School in Alexandria. We landscaped the front entrance, back entrance, and courtyards.
- Conducted a tour of Wheeler Avenue facility for the Federal Communications Commission and the United States Telecommunications Training Institute, whose class is made up of members of the military from around the world.
- Corporate sponsor of the Alexandria Waterfront Festival
- Live coverage of the Alexandria Election Returns
- Supported the Breast Cancer Walk, taped and broadcast the event
- Partnered with the City of Alexandria for the Comcast Outdoor Film Festival

- Taped and broadcast Agenda Alexandria monthly
- Taped and broadcast the Alexandria Chamber Business Leader of the Year Award
- Taped and broadcast the Grace Episcopal Concert
- Taped and broadcast & Supported the Alexandria Chamber of Commerce Chairman's Gala
- Taped and broadcast the Martin Luther King Birthday Ceremony @ Lee Center
- Taped and broadcast the St Patrick's Day Parade
- Taped and broadcast the George Washington Day Parade
- Taped and Broadcast the Earl Lloyd grand Marshall Banquet
- Taped and broadcast the Martin Luther King Birthday Ceremony @ Blessed Sacrament
- Taped and broadcast the Alexandria Birthday Celebration
- Supported, taped and broadcast the State of the City Address
- Taped and broadcast the Salute to Women Awards
- Taped and broadcast the Valor Awards; Chaired the Valor Committee
- Taped and broadcast the Chamber Candidates Debate
- Taped and broadcast the Episcopal Graduation
- Taped and broadcast the Bishop Ireton Graduation
- Taped and broadcast the T.C. Williams Graduation
- Taped and broadcast the Scholarship Awards Ceremony
- Taped and broadcast the St. Stephens /St. Agnes Graduation
- Taped and Broadcast the Scottish Christmas Walk
- Taped and Broadcast the Scottish Night at Ft. Ward Park
- Broadcast the Va. Tech Vs. Marshall football Game
- Broadcast the Latter Day Saints Annual Conference
- Taped and Broadcast the Days of Remembrance
- Taped and Broadcast the Scottish Heritage Festival
- Taped and Broadcast the League of Women's Voters Candidates Debate
- Taped and Broadcast the Technology Achievement Awards
- Taped and Broadcast the Town Hall Meeting @ Masonic Temple
- Taped and Broadcast the Town Hall Meeting @ PTO
- Taped and Broadcast the Jim Moran Town Hall Meeting
- Taped and broadcast the African American Festival
- Taped and Broadcast the Christmas Tree Lighting Ceremony
- Taped and Broadcast the Excellence in Education Awards
- Broadcast the Va. Tech Vs. North Carolina football Game
- Taped and Broadcast the Alexandria Boxing Club 2k4
- Taped and Broadcast the Ethiopian Evangelical Church program
- Taped and Broadcast the T.C. Williams vs. Herndon Boys Basketball Game
- Taped and Broadcast the T.C. Williams vs. Edison Girls Basketball Game
- Taped and Broadcast the Grace Episcopal Spring Program
- Taped and Broadcast the CTE Awards Program
- Taped and Broadcast Monthly Program for Mayor of City of Alexandria
- Taped and Broadcast Monthly Program for Chamber of Commerce
- Taped and Broadcast Monthly Program for Fire Department
- Taped and Broadcast Monthly Program for Alexandria Library

- Taped and Broadcast Monthly Program for Alexandria Education Partnership
- Taped and Broadcast Monthly Program for Alexandria Civic Associations
- Taped and Broadcast Monthly Program for Alexandria Senior Citizens
- Taped and Broadcast Monthly Program for Hoop Academy International
- Supported the Alexandria Torpedo Factory for the "Taste of Alexandria"
- Supported the Alexandria Department of Human Services with their Bicycle round-up Program
- Supported taped and Broadcast the NAACP Awards Banquet
- Supported the Northern Virginia Urban League Gala
- Participated in the City of Alexandria Softball Program
- Sponsored the Alexandria Scholarship Fund Telethon through in kind work planning and broadcasting live and on replay the telethon event. This year's telethon raised over \$100,000.
- Sponsored the Scholarship Fund Committee Wrap-up Party
- Sponsored the Training of Hoop Academy International Students in Field Production and Studio Class

Produced Comcast Local Edition interviews, appearing on Headline News for the following organizations:

City of Alexandria Recreation, Parks & Cultural - 12 segments  
 Art on the Avenue / Art Safari  
 Alexandria Chapter of the American Red Cross  
 Potomac Conservancy  
 Inova Blood  
 Alexandria Convention & Visitors Center – 6 segments  
 Office on Women - Domestic Violence  
 Office on Women – Walk to Fight Breast Cancer  
 Office on Women – Sexual Assault Awareness Month  
 Office on Women – Salute to Women Awards  
 The Scholarship Fund of Alexandria Telethon  
 Congressman James Moran  
 SOC Enterprises - promotes independence for people with disabilities  
 Alzheimer's Family Day Center  
 Northern Virginia Aids Ministry  
 Alexandria Chamber of Commerce  
 Irish Festival  
 St. Patrick's Day Parade  
 Alexandria Commission for the Arts  
 Alexandria Outdoor Film Festival  
 The Campagna Center  
 Alexandria Waterfront Festival  
 The Twig – Tour of Homes

Alexandria Symphony Orchestra – 14 segments  
First Night Alexandria  
Samaritan Ministry of Greater Washington  
Pentagon Memorial Fund  
Agenda Alexandria – 3 segments  
Alexandria Katrina Consortium  
NCESGR  
Carpenter's Shelter  
National MS Society  
Eisenhower Partnership  
Vola Lawson Animal Shelter  
Alzheimer's Association  
Mother's Against Drunk Drivers  
Child & Family Network Center  
Northern Virginia Family Services  
Father's Day Council  
Armenian Festival  
Girl Scout Council  
The Art League  
SCAN  
CrisisLink  
Azalea Charities  
Avon Walk to Fight Breast Cancer  
Alexandria Technology Achievement Awards  
Lupus Foundation of Greater Washington  
Alexandria United Way  
Alexandria Symphony Ball  
The Carlyle House  
Northern Virginia Urban League  
Alexandria Animal Welfare League  
The Torpedo Factory  
Opera Theater of Northern Virginia  
Senior Services  
Alexandria Detox Center  
Alexandria – Gyumri, Armenia Sister Cities Committee  
Cyber Seniors / Cyber Teens  
Alexandria Volunteer Bureau



Deloitte & Touche LLP  
1700 Market Street  
Philadelphia, PA 19103-2881  
USA

Tel: +1 215 246 2300  
Fax: +1 215 569 2441  
www.deloitte.com

## INDEPENDENT AUDITORS' REPORT

Board of Directors and Stockholder  
Comcast Cablevision of Virginia, Inc.  
Philadelphia, Pennsylvania

We have audited the accompanying schedule of gross revenues, as defined in Cable Franchise Agreement dated June 18, 1994 (the "Agreement"), of Comcast Cablevision of Virginia, Inc. (the "Company") for the franchise area of the City of Alexandria, Virginia (the "Schedule") for the year ended December 31, 2005. This Schedule is the responsibility of the Company's management. Our responsibility is to express an opinion on this Schedule based on our audit.

We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the Schedule is free of material misstatement. An audit includes consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the Schedule, assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall Schedule presentation. We believe that our audit provides a reasonable basis for our opinion.

In our opinion, such Schedule presents fairly, in all material respects, the gross revenues, as defined in the Agreement referred to above, of Comcast Cablevision of Virginia, Inc. for the franchise area described above for the year ended December 31, 2005.

This report is intended solely for the information and use of the Board of Directors and Stockholder of Comcast Cablevision of Virginia, Inc. and the City of Alexandria, Virginia and is not intended to be and should not be used by anyone other than these specified parties.

March 22, 2006

**COMCAST CABLEVISION OF VIRGINIA, INC.**

**SCHEDULE OF GROSS REVENUES  
CITY OF ALEXANDRIA, VIRGINIA  
YEAR ENDED DECEMBER 31, 2005**

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GROSS REVENUES

\$ 39,706.307

NOTE: The amount of gross revenues above is recorded in accordance with the Cable Franchise Agreement dated June 18, 1994, between Comcast Cablevision of Virginia, Inc. and the City of Alexandria, Virginia.

In accordance with the Federal Communications Commission (the "FCC") ruling that determined cable modem service is not a "cable service" as defined by the Communications Act, the gross revenues above do not include cable modem service revenues.



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CONSTRUCTION PLANS

COMCAST OFFICERS AND BOARD OF DIRECTORS

COMCAST EMPLOYEE REPORT

CABLE TELEVISION CHANNEL CHANGES

ANNUAL CUSTOMER OPINION SURVEY

ANNUAL PLANT REPORT

TELEPHONE STATISTICS





Comcast Cable  
508 D South Van Dorn Street  
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Office: 703.567.4600  
Fax: 703.567.4444  
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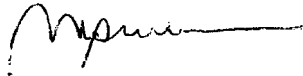
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Yours sincerely,



Marie Schuler  
Director of Government and Community Affairs



## **2006 ANNUAL REPORT**

### **YEAR'S ACTIVITIES SUMMARY**

**Local Origination and Community  
Programming Service to the Community  
AUGUST 30, 2006**

**YEAR'S ACTIVITY SUMMARY**  
**Local Origination and Community Programming**  
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- Taped and broadcast the Valor Awards; Chaired the Valor Committee
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- Broadcast the Latter Day Saints Annual Conference
- Taped and Broadcast the Days of Remembrance
- Taped and Broadcast the Scottish Heritage Festival
- Taped and Broadcast the League of Women's Voters Candidates Debate
- Taped and Broadcast the Technology Achievement Awards
- Taped and Broadcast the Town Hall Meeting @ Masonic Temple
- Taped and Broadcast the Town Hall Meeting @ PTO
- Taped and Broadcast the Jim Moran Town Hall Meeting
- Taped and broadcast the African American Festival
- Taped and Broadcast the Christmas Tree Lighting Ceremony
- Taped and Broadcast the Excellence in Education Awards
- Broadcast the Va. Tech Vs. North Carolina football Game
- Taped and Broadcast the Alexandria Boxing Club 2k4
- Taped and Broadcast the Ethiopian Evangelical Church program
- Taped and Broadcast the T.C. Williams vs. Herndon Boys Basketball Game
- Taped and Broadcast the T.C. Williams vs. Edison Girls Basketball Game
- Taped and Broadcast the Grace Episcopal Spring Program
- Taped and Broadcast the CTE Awards Program
- Taped and Broadcast Monthly Program for Mayor of City of Alexandria
- Taped and Broadcast Monthly Program for Chamber of Commerce
- Taped and Broadcast Monthly Program for Fire Department
- Taped and Broadcast Monthly Program for Alexandria Library

- Taped and Broadcast Monthly Program for Alexandria Education Partnership
- Taped and Broadcast Monthly Program for Alexandria Civic Associations
- Taped and Broadcast Monthly Program for Alexandria Senior Citizens
- Taped and Broadcast Monthly Program for Hoop Academy International
- Supported the Alexandria Torpedo Factory for the “Taste of Alexandria”
- Supported the Alexandria Department of Human Services with their Bicycle round-up Program
- Supported taped and Broadcast the NAACP Awards Banquet
- Supported the Northern Virginia Urban League Gala
- Participated in the City of Alexandria Softball Program
- Sponsored the Alexandria Scholarship Fund Telethon through in kind work planning and broadcasting live and on replay the telethon event. This year’s telethon raised over \$100,000.
- Sponsored the Scholarship Fund Committee Wrap-up Party
- Sponsored the Training of Hoop Academy International Students in Field Production and Studio Class

Produced Comcast Local Edition interviews, appearing on Headline News for the following organizations:

City of Alexandria Recreation, Parks & Cultural - 12 segments  
 Art on the Avenue / Art Safari  
 Alexandria Chapter of the American Red Cross  
 Potomac Conservancy  
 Inova Blood  
 Alexandria Convention & Visitors Center – 6 segments  
 Office on Women - Domestic Violence  
 Office on Women – Walk to Fight Breast Cancer  
 Office on Women – Sexual Assault Awareness Month  
 Office on Women – Salute to Women Awards  
 The Scholarship Fund of Alexandria Telethon  
 Congressman James Moran  
 SOC Enterprises - promotes independence for people with disabilities  
 Alzheimer's Family Day Center  
 Northern Virginia Aids Ministry  
 Alexandria Chamber of Commerce  
 Irish Festival  
 St. Patrick’s Day Parade  
 Alexandria Commission for the Arts  
 Alexandria Outdoor Film Festival  
 The Campagna Center  
 Alexandria Waterfront Festival  
 The Twig – Tour of Homes

Alexandria Symphony Orchestra – 14 segments  
First Night Alexandria  
Samaritan Ministry of Greater Washington  
Pentagon Memorial Fund  
Agenda Alexandria – 3 segments  
Alexandria Katrina Consortium  
NCESGR  
Carpenter’s Shelter  
National MS Society  
Eisenhower Partnership  
Vola Lawson Animal Shelter  
Alzheimer’s Association  
Mother’s Against Drunk Drivers  
Child & Family Network Center  
Northern Virginia Family Services  
Father’s Day Council  
Armenian Festival  
Girl Scout Council  
The Art League  
SCAN  
CrisisLink  
Azalea Charities  
Avon Walk to Fight Breast Cancer  
Alexandria Technology Achievement Awards  
Lupus Foundation of Greater Washington  
Alexandria United Way  
Alexandria Symphony Ball  
The Carlyle House  
Northern Virginia Urban League  
Alexandria Animal Welfare League  
The Torpedo Factory  
Opera Theater of Northern Virginia  
Senior Services  
Alexandria Detox Center  
Alexandria – Gyumri, Armenia Sister Cities Committee  
Cyber Seniors / Cyber Teens  
Alexandria Volunteer Bureau



## **2006 ANNUAL REPORT**

# SUMMARY OF CUSTOMER COMPLAINTS AUGUST 30, 2006



# **Summary of Complaints**

## **July 1, 2005 – June 30, 2006**

### **City of Alexandria, Virginia**

1. **Complaint:** Customer complains of poor reception on all local channels.  
**Resolution:** Maintenance team was dispatched to adjust signal levels and change out a bad fitting.
2. **Complaint:** Customer complains that the cable box cover is broken and can present a potential hazard.  
**Resolution:** Construction was dispatched to replace the pedestal cover and sub was satisfied with the response.
3. **Complaint:** Former customer requested to have their cable services disconnected yet he continued to receive bills which were turned over to collections.  
**Resolution:** Our records indicated that the customer did not call into have their service disconnected. However, the debt was removed and the collections agency notified.
4. **Complaint:** Customer requested to have a new HD box installed but it did not work.  
**Resolution:** Customer's account was credited for the 3 days with out service and the HD box was swapped out. Sub was satisfied with the service call and stated that all HD channels were in working order.
5. **Complaint:** Customer complained that her installation was not completed to her satisfaction and that her DVR box did not work properly.  
**Resolution:** Dispatched a technician who properly tacked down the cable lines and replaced her DVR box. Sub satisfied.
6. **Complaint:** Customer complains that he is missing one channel and felt that a technician should have been dispatched the same day.  
**Resolution:** Customer set up an appointment and found that the box had to be replaced.
7. **Complaint:** Customer complains of long hold time and two missed service appointments and wanted to discuss his concerns.  
**Resolution:** Customer contact was made and he did not discuss specific issues but opted to speak generally about his service. He wanted his billing cycle changed so that payments could be deduced on the 10<sup>th</sup> of each month. Sub satisfied.
8. **Complaint:** Customer complained about the promotional billing.  
**Resolution:** The customer's billing was correct. She did not understand the partial month and applied a goodwill adjustment to the account.
9. **Complaint:** Customer complained of overhead drop to his home which was swept away during the storm.  
**Resolution:** Repair of overhead line was completed and the account adjusted accordingly.
10. **Complaint:** Customer complains about phone calls he received from local telemarketing department and that the telephone numbers were not printed in Verizon's Directory.

**Resolution:** It was explained to the customer that the telephone numbers belonged to and are listed as Comcast in Targus. The Verizon Directory prints once a year and any changes made to the directory after November will have to wait to be printed in the 2007 Directory.

11. **Complaint:** Customer complains that she cannot access Video On Demand on her HD DVR box.

**Resolution:** An appointment was scheduled and the HD DVR box was swapped out. Video On Demand worked after the box was swapped out. Sub satisfied.

12. **Complaint:** Customer complains that the signal in their apartment is weak and as such, service is sporadic.

**Resolution:** A technician was dispatched and replaced the cable lines leading into the unit. Sub was satisfied.

13. **Complaint:** Customer previously had Comcast service but disconnected and went to satellite. He complained that Comcast went out to disconnect his service at the tap and disconnected his satellite feed.

**Resolution:** A contractor for Comcast was dispatched and reconnected the line. Sub satisfied.

14. **Complaint:** Customer called for service and had moved into a brand new home. Whenever they called into the customer service line, their new home (address) was not appearing in the billing system.

**Resolution:** We surveyed the address and set the customer up for service. Sub satisfied.

15. **Complaint:** Customer complains that she had been paying for a converter box when it was unnecessary and wanted 13 years worth of credit.

**Resolution:** We researched the customers request and adjusted her account to total \$100 worth of credit for the converter box charge.

16. **Complaint:** Customer complains that we do not post payments to the account in a timely manner.

**Resolution:** Contact was made with the customer and it was explained that payments are posted immediately to accounts, the same day that they are received at our post office box banking facility. We removed the late fees but explained the customers billing cycle and when late fees are assessed.

17. **Complaint:** Customer requested a new outlet in his home but was told it was a custom installation.

**Resolution:** We set up an appointment with our contractor who performs custom installations and the customer's custom outlet was installed.

18. **Complaint:** Customer complains about programming on MHz-2.

**Resolution:** Written notification was sent to the customer letting him know that MHz changes their format from time to time and that the signal quality on MHz and MHz-2 is delivered by the programmer to our headend.

19. **Complaint:** Customer complains of three missed appointments.

**Resolution:** Customer's inquiry was investigated and a sixty dollar credit adjustment was applied to his account.

20. **Complaint:** Customer complains that Video On Demand isn't functioning properly and wanted a wide range of future appointment times.

Resolution: A response was mailed to the customer explaining the various timeframes Monday – Sunday so we could set up an appointment to troubleshoot the issues.

21. **Complaint:** Customer complains that she was charged for an additional week of service but had requested cable service to be disconnected the same day.  
**Resolution:** Removed one weeks worth of additional billing. Sub satisfied.
22. **Complaint:** Customer had been trying to get service. Construction was supposed to call and all he wanted was Comcast service.  
**Resolution:** Contact was made with the customer and a custom installer was dispatched to his home to complete the installation work. Sub satisfied.
23. **Complaint:** Customer complains that our digital boxes are not functioning properly and is failing to provide functional IEEE 1394 support.  
**Resolution:** Contact was made with the customer and confirmed that we are running the 1.40 code on the box and are in compliance.
24. **Complaint:** Customer states that they want service restored.  
**Resolution:** Construction went out and found that the cable lines beside the junction box next to the street were not long enough for the proper connection. Reran a new strand of cable and the customer was up and running.
25. **Complaint:** Customer complains that the drop has not been buried.  
**Resolution:** Drop was buried and contact was made with the subscriber.
26. **Complaint:** Customer states that she never requested HBO although it was added under a promotion.  
**Resolution:** We removed the HBO charges and downgraded the customer to Limited Basic Service.
27. **Complaint:** Customer complained that his set top box did not work correctly with the Firewire and HDMI output.  
**Resolution:** We sent our Headend department out to the customers home to swap out his DOCSIS set top box with a non-DOCSIS set top box to ensure that the Firewire and HDMI output are working correctly. Sub satisfied.
28. **Complaint:** Customer sent letters stating that her service should have been disconnected two months prior.  
**Resolution:** Customer contact was made and the service was disconnected at the tap with credit adjustments applied to reflect a zero balance.
29. **Complaint:** Customer was upset due to the channel repositioning and stated that he was not notified.  
**Resolution:** Contact was made and it was explained that notification was mailed to customers six weeks prior to the actual repositioning of channels.
30. **Complaint:** Customer wanted name changed on bill due to the death of her spouse.  
**Resolution:** Customer contact was made and the name changed on the account.
31. **Complaint:** Customer complains that their service is intermittent and wants it fixed.  
**Resolution:** A maintenance technician was dispatched who found low signal on the pole and replaced a water filled splitter.
32. **Complaint:** Customer complains that the installation was performed sloppy.

**Resolution:** A separate appointment was set up to complete the installation and it was explained to the customer that we do not move customer's equipment, e.g. a television, entertainment system, etc. and that it is the customer's responsibility to ensure that entertainment systems, televisions, etc. are moved away from the wall so we can access and install our services.

33. **Complaint:** Customer complains that he had not yet received his refund from Comcast.

**Resolution:** The customer was contacted and it was explained that he had to return Comcast's equipment before the refund would be processed.

34. **Complaint:** Customer complains about a promotional offer that she saw on television and when she received her first bill, it did not reflect that promotional offer.

**Resolution:** The promotional offer for \$1.00 had a disclaimer whereas the \$1.00 for the first month was for Digital Cable Service only and did not include Expanded or Limited Basic. However, as goodwill, a credit adjustment was applied to the account. Sub satisfied.

35. **Complaint:** Customer complains that the remote control is not working correctly despite several attempts to get it fixed.

**Resolution:** A technical supervisor went out to the customer's home and showed her how to use the functions so that the audio comes in clear. Customer education.

36. **Complaint:** Customer states that the cable is exposed in his front yard.

**Resolution:** The drop was buried and contact was made with homeowner.

37. **Complaint:** Customer did not understand the bill in which she received for services.

**Resolution:** Contact was made and the prorated or partial month (end of promotion) was explained to the customer and that the bill was correct.

38. **Complaint:** Customer complains of pixels, tiling and freezing intermittently.

**Resolution:** This was an area wide issue where routine maintenance was being performed on the NODE. Sub service is up and running.

39. **Complaint:** Customer complains of "sneakers" hanging over our cable wire.

**Resolution:** Dispatched a technician in a bucket truck who removed the "sneakers."

40. **Complaint:** Customer complained that she received a bill even after she requested a temporary or vacation disconnect.

**Resolution:** Customer continued to receive a bill because we could not disconnect the service at the tap. The customer's back gate was locked and we could not gain access. Therefore, we disconnected the drop on the pole and completed the disconnect which created a prorated with the account backdated to the request of disconnection. Sub had a zero balance.

41. **Complaint:** Customer complains of harassing phone calls from Comcast bill collectors.

**Resolution:** The customer was contacted and told that he is in arrears every single month and this is why he continues to receive collection phone calls.

42. **Complaint:** Customer complains of bad signal for the past six months.

- Resolution: Contact was made and we installed an amplifier, replaced old RG-59 cable inside of the home and replaced three cables and the drop leading to the home.
43. Complaint: Customer complains of repeat problems/repeat trouble calls.  
Resolution: Maintenance was dispatched and improved the interference on local channels.
44. Complaint: Customer states that picture is snowy, intermittent signal on all stations in basic package.  
Resolution: We dispatched our maintenance team and performed maintenance work, checked the signal levels and found that the service leading into the home is in working order.
45. Complaint: Customer requested that the aerial drop be rerouted.  
Resolution: Drop was rerouted.
46. Complaint: Customer complains that the tech was late and the twenty dollar adjustment did not appear on his billing statement.  
Resolution: The bill went out before the credit adjustment was applied.
47. Complaint: Customer complains that her Comcast Digital Voice Service did not work up to par.  
Resolution: We removed all of the late fees, removed all charges associated with CDV Service and credited the account as previously promised. Customer satisfied.
48. Complaint: Customer complains that her credit was damaged due to an outstanding balance in which she paid.  
Resolution: Customer paid for the converter box and our records were updated. CMI, Credit Management, LP was also notified to update their records.
49. Complaint: Customer states that her DVR did not function correctly.  
Resolution: Sent a tech out and swapped out the DVR. Sub satisfied.
50. Complaint: Customer states that her service is not working up to par and that the customer account executives are unable to answer her questions.  
Resolution: We dispatched a technician who was able to troubleshoot the problems she was experiencing with her cable service. Sub satisfied.
51. Complaint: Customer did not understand the promotional charges that appeared on their statement.  
Resolution: Contact was made with the customer and it was explained that we bill for promotional offers in arrears and for full service in advance. His promotional expired on the 9<sup>th</sup> of the month. His bill included charges from the 9<sup>th</sup> to the 9<sup>th</sup> of the following month and then the 10<sup>th</sup> through the 9<sup>th</sup> of the second month. Sub understands the bill but we provided a goodwill adjustment.
52. Complaint: Customer states that he did not get a second HD box installed and wanted it free per month.  
Resolution: It was explained to the customer that we do not offer free ancillary service on digital service nor do we provide the boxes for free. Sub is aware and mentioned that he'd call back if he decided to upgrade his service.
53. Complaint: Customer did not understand his bill.  
Resolution: The billing was thoroughly explained to the customer and we removed the late fee.

54. **Complaint:** Customer moved into a new building and wanted service installed.  
**Resolution:** Construction went out to the building and cut in taps. Customer was able to get installed that afternoon.
55. **Complaint:** Customer had waited for a refund from Comcast.  
**Resolution:** We processed the customers refund and mailed it to him. Satisfied.
56. **Complaint:** Customer states that he was overcharged for an ancillary outlet for fifteen months.  
**Resolution:** We adjusted the account and backdated the account. The total adjustment was in the amount of \$149.25. Sub satisfied.
57. **Complaint:** Customer returned her Comcast Alexandria issued equipment to the Prince George's County, Maryland system and as such, received a letter from a collections agency regarding unreturned equipment.  
**Resolution:** Contact was made and the customer faxed in her receipt. Equipment, when issued in specific systems, must be returned to the system where service was initially provided. For instance, the customer should have returned her equipment to our facility. When customers move out of state and take our issued equipment, we have no way of knowing whether the equipment was returned because our billing system does not transfer information from state to state. However, CPA was notified and the customers account was cleared.



# **2006 ANNUAL REPORT**

**FINANCIAL REPORTS**  
**AUDITED GROSS RECEIPTS**  
**LETTER TO THE SHAREHOLDERS**  
**10-K**

**AUGUST 30, 2006**

## INDEPENDENT AUDITORS' REPORT

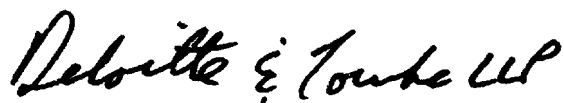
Board of Directors and Stockholder  
Comcast Cablevision of Virginia, Inc.  
Philadelphia, Pennsylvania

We have audited the accompanying schedule of gross revenues, as defined in Cable Franchise Agreement dated June 18, 1994 (the "Agreement"), of Comcast Cablevision of Virginia, Inc. (the "Company") for the franchise area of the City of Alexandria, Virginia (the "Schedule") for the year ended December 31, 2005. This Schedule is the responsibility of the Company's management. Our responsibility is to express an opinion on this Schedule based on our audit.

We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the Schedule is free of material misstatement. An audit includes consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the Schedule, assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall Schedule presentation. We believe that our audit provides a reasonable basis for our opinion.

In our opinion, such Schedule presents fairly, in all material respects, the gross revenues, as defined in the Agreement referred to above, of Comcast Cablevision of Virginia, Inc. for the franchise area described above for the year ended December 31, 2005.

This report is intended solely for the information and use of the Board of Directors and Stockholder of Comcast Cablevision of Virginia, Inc. and the City of Alexandria, Virginia and is not intended to be and should not be used by anyone other than these specified parties.



March 22, 2006



**COMCAST CABLEVISION OF VIRGINIA, INC.**

**SCHEDULE OF GROSS REVENUES  
CITY OF ALEXANDRIA, VIRGINIA  
YEAR ENDED DECEMBER 31, 2005**

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GROSS REVENUES \$ 39,706,307

NOTE: The amount of gross revenues above is recorded in accordance with the Cable Franchise Agreement dated June 18, 1994, between Comcast Cablevision of Virginia, Inc. and the City of Alexandria, Virginia.

In accordance with the Federal Communications Commission (the "FCC") ruling that determined cable modem service is not a "cable service" as defined by the Communications Act, the gross revenues above do not include cable modem service revenues.

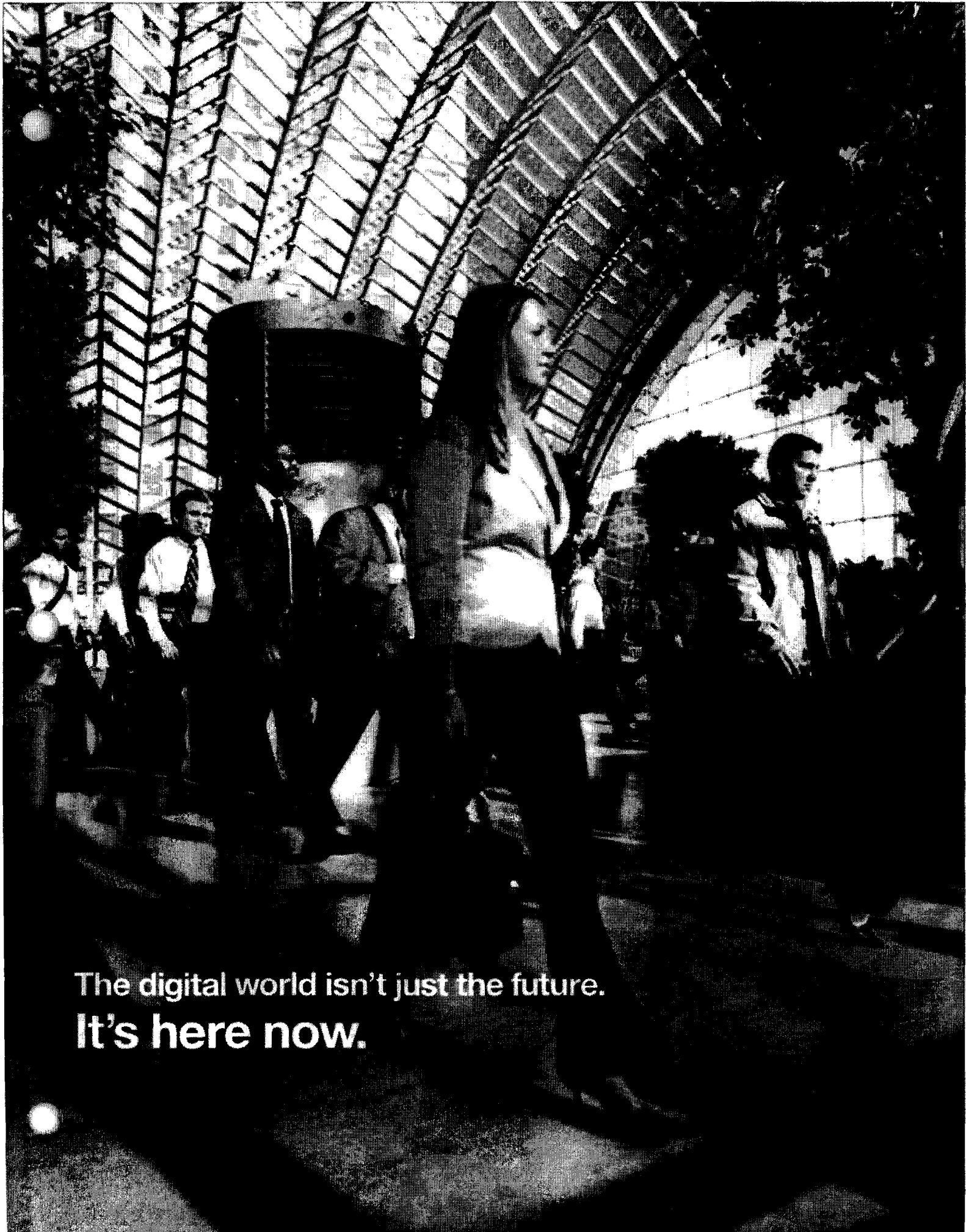
On Demand is in.

Broadband is booming.

Voice is growing stronger.

Convergence

Comcast



The digital world isn't just the future.  
**It's here now.**



And as it *accelerates*, so do  
**Comcast's opportunities for growth.**

1

## 1 **expanding customer relationships**

We added 1.5 million new high-speed Internet, 1.1 million new digital cable and 202,000 Comcast Digital Voice customers in 2005, driving our average monthly revenue per customer from \$77 to \$84.

We now exceed 22.4 million customer relationships, and new products continue to expand our growth potential among the 41.6 million homes in our markets.

2

## Our products deliver a superior experience.

- > Our growing ON DEMAND library attracted more than 1.4 billion views in 2005, nearly a 150 percent jump over the previous year.
- > We keep raising the bar for Internet performance—increasing speeds to 6 and 8 megabits per second and adding features that deliver a better broadband experience.

3

## We have the bandwidth to grow.

Our fiber-rich network delivers what customers want today—including more ON DEMAND, more HD programming and faster Internet speeds—and it has the capacity to meet future demand without rebuilding.

➤ We're working on technology to deliver broadband speeds of 200 megabits per second and beyond—surpassing today's top speed by 25 times or more—over our existing network.

4

## positioned

With Sprint Nextel, we are developing new wireless products that will provide integrated entertainment and communications services to customers, at home and wherever they go.

We're working with industry leaders—including Microsoft, Motorola, Panasonic, Pace, Samsung and TiVo—to develop next-generation digital devices that will expand our offerings and our competitive advantage.



5

## 2005 cash flow funded for the future

We generated \$2.6 billion in free cash flow in 2005, reinvesting these funds in initiatives to extend our leadership position and return value to shareholders through stock buybacks.

Since 2003, we have invested \$1.9 billion in our business and \$5 billion in our stock, while maintaining a strong investment grade rating.



**Comcast is on.**



**Brian L. Roberts (left)**

Chairman and  
Chief Executive Officer

**Ralph J. Roberts (seated)**

Chairman, Executive and  
Finance Committee

**Stephen B. Burke (right)**

Executive Vice President and  
Chief Operating Officer;  
President, Comcast Cable

The digital world—once a distant dream—is finally here. Televisions, computers, telephones and other electronic devices are all converging at an accelerating rate. This transformation is already changing the way we live, giving consumers greater convenience, choice and control than ever before. It's also creating significant new growth opportunities for companies like ours.

Comcast is at the center of this transformation, delivering the products consumers want today and investing in the exciting innovations that will shape tomorrow. Over the past decade, we've grown from a single-product regional cable provider to the nation's largest integrated video, broadband and communications company with 22.4 million customers and a network that passes 41.6 million homes—or about one in every 3.5 homes in the country.

By continuously enhancing our products—and staying at the forefront of rapidly changing consumer trends and technologies—we have been able to deliver superior operating and financial performance and position ourselves for future growth.

In 2005, consolidated revenues increased 9.6 percent to \$22.3 billion. Operating cash flow<sup>1)</sup> rose 12.8 percent to \$8.5 billion, our fifth straight year of double-digit growth.

During the year, we sold more than 2.6 million new products—or revenue generating units (RGUs), as they are known in the industry—and increased our average monthly revenue per customer from \$77 to nearly \$84. To build on this momentum, we strengthened our fiber-rich cable infrastructure—creating a truly “converged” network—to facilitate the deployment of new services, including Comcast Digital Voice. We also partnered with technology and consumer electronics leaders to drive innovation and expand our services across all platforms.

At the same time, we expanded our ON DEMAND library with hundreds of movies from Sony and Starz/Encore, premiered PBS KIDS Sprout, and launched partnerships with the National Hockey League and, most recently, the PGA TOUR. These investments not only increase the value of our cable networks, they also enable us to provide unique content to Comcast customers and to differentiate our products in the marketplace.

### Where Others See Uncertainty, We See Opportunity

Despite our strong results in 2005, the value of Comcast common stock declined 22 percent, compared to a 3 percent increase in the S&P 500 during the year. Why the disconnect? The most likely explanation is that unprecedented changes are taking place in the way communications services and content are delivered to consumers. Comcast has been at the leading edge of this transition. But with so many new contenders and approaches in the marketplace, there is a fog of uncertainty about who the winners and losers will be.

While no one can predict the future, I believe tomorrow's leaders will be those companies that master change and provide customers with exciting new products and services that make their

<sup>1)</sup> See definitions on page 16



**140 million**  
ON DEMAND programs were viewed in December, including 15 million free movies, 16 million kids' shows and 30 million music programs.

**89%**  
of all ON DEMAND users say it enhances the digital experience, and 72 percent say it has improved the value of our service.

lives easier, more efficient—and a whole lot more fun. At Comcast, that is exactly our game plan. We are building a superior communications and entertainment experience that will enable us to sustain our growth and deliver long-term value to shareholders.

### Transforming the Television Experience

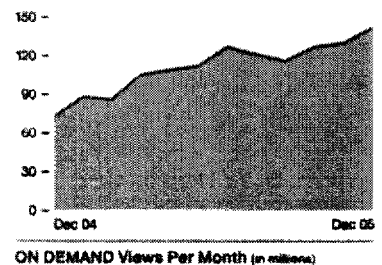
A few years ago it became clear to us that the future of television would be much more personalized, and that viewers want the power to decide what to watch on their own schedules. So we decided to make video on demand a centerpiece of our offerings.

Today, our ON DEMAND service leads the market, offering 7,000 program options a month. Demand skyrocketed in 2005, as customers watched more than 1.4 billion ON DEMAND programs, far surpassing our expectations. In addition, we offer the latest digital video recording (DVR) technology and the best selection of high-definition (HD) programming, including local high-def channels, to expand our customers' viewing choices.

The result is a total entertainment experience that customers value, and that satellite providers and other competitors have not been able to duplicate. During 2005, that helped us to attract 1.1 million new Comcast Digital Cable customers—for a total of 9.8 million at year-end—increasing our digital penetration to 46 percent. More than 2.4 million digital cable customers also have HD/DVR set-top boxes, more than double the number of a year ago.

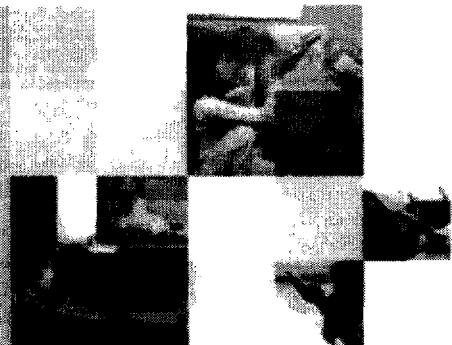
We continue to enhance our services to drive digital growth. We're expanding the launch of our enhanced cable service, offering 100 percent digital quality, an interactive program guide and select ON DEMAND programming to customers as an attractive alternative to our analog cable service.

1.4 Billion ON DEMAND Views in 2005



### On Demand is in.

With more than 7,000 programs to choose from each month, Comcast's ON DEMAND offering is unparalleled. In 2005, customers accessed ON DEMAND 1.4 billion times, watching an average of 30 programs per month.



### Taking High-Speed Internet to a Higher Level

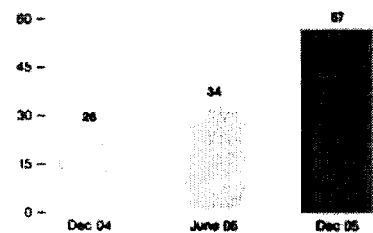
As the country's No. 1 high-speed Internet provider, Comcast is in an excellent position to capitalize on the explosive growth of broadband services. During 2005, we increased revenues from our high-speed Internet business by almost 28 percent and added 1.5 million customers, bringing our total to more than 8.5 million.

While some companies have chosen to compete almost solely on price, we focus on delivering greater value, better service and enhanced features. This strategy continues to be successful as we maintained our average monthly revenue per customer above \$42.

Speed is essential to the equation. During 2005, we made Comcast High-Speed Internet a faster and richer experience for our customers, increasing our broadband speeds to 6 and 8 megabits per second. We'll continue to increase these speeds over time to maintain our competitive advantage.

In addition, we plan to keep adding innovative features like Video Mail, PhotoShow, Comcast Rhapsody Radio PLUS and The Fan™—a fast and easy way to search, save and view video on the Internet. In 2005, our customers downloaded more than 400 million video clips through The Fan. There is no question that video will become increasingly important on every device, including the computer. As the leader in both cable and broadband, we believe Comcast has an advantage in this emerging market.

400 Million Video Downloads in 2005



Video Downloads per Month on Comcast.net (in millions)

### Delivering a Superior Communications Service

During 2005, we launched Comcast Digital Voice to more than 16 million homes in 25 markets, and achieved our year-end target by adding 202,000 new customers. Early reviews have been outstanding:

**8.5 million**  
households now have Comcast High-Speed Internet service, making us the No. 1 broadband service provider in the country.

**84%**  
of consumers interested in broadband say that a faster connection is among their key decision-making criteria.

*Business Week* called Comcast Digital Voice a “standout” among Internet-based phone products, and 92 percent of our customers rated our service good to excellent.

Building on this success, we’ll continue to enhance Comcast Digital Voice and expand its rollout across all of our markets. Our goal is to add at least 1 million new customers in 2006, and to grow to 8 million customers within five years, representing roughly 20 percent penetration of the homes in our markets.

To expand our capabilities, we have formed a joint venture with Sprint Nextel and leading cable companies to offer our customers a combination of wireless, video, high-speed Internet and digital voice services. Through this joint venture, we will launch a new generation of products that will provide customers with a wide range of new anywhere/anytime services—from “video over phone” and remote TV programming, to fast and easy access to e-mail, voice mail and video mail across a variety of devices.

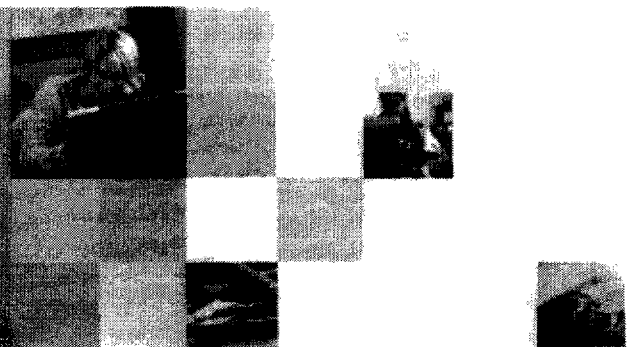
### Unlocking the Power of the Bundle

Convergence is clearly the next wave of growth. With our technology platform in place—and our three services available across most of our markets this year—Comcast is ready to capture the opportunity. Among our initiatives: marketing packages (or “bundles”) of services to many more of the 41.6 million homes in our markets.

We have already tested several of these bundled product offerings in select markets with great success. Not only are these bundles helping us to deepen our existing customer relationships, but they are also enabling us to build new relationships with the nearly 20 million homes in our markets that haven’t yet purchased one of our products.

### Broadband is booming.

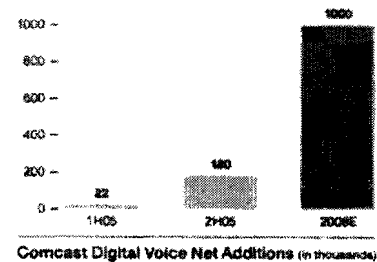
With speeds of 6 to 8 megabits per second and dozens of new enhancements, including advanced security features, Comcast High-Speed Internet keeps getting better. Our goal: to deliver the best speed, reliability and broadband content available on the Internet—all in a way that’s fast, easy and unbelievably fun.





During 2005, we reorganized our management team to focus the talent of our people company-wide, creating one operations team, one marketing and product development team, and one engineering team to serve all of our products—video, voice, data and wireless. As convergence continues to take hold, this new structure will improve our ability to develop better and more integrated services that are also easier for customers to purchase and use.

Goal: 1 Million Subscribers in 2006



**We Are Positioned to Compete—and Determined to Win**

We finished 2005 with one of the strongest balance sheets in our history. All three major rating agencies upgraded our debt ratings during the year, and we are now solidly investment grade.

Free cash flow<sup>16</sup> for the year reached \$2.6 billion, helping us to invest \$786 million in new content and technologies to drive future growth and to reinvest \$2.3 billion in our stock. Over the past two years, we have invested \$5 billion in our stock and related securities, representing approximately 7.5 percent of our shares outstanding. Our Board recently authorized an additional stock buyback of up to \$5 billion.

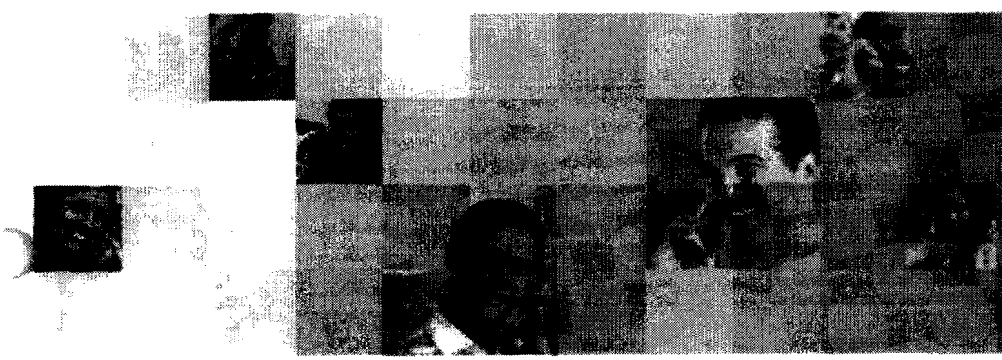
We will apply a similar game plan in 2006, investing to differentiate our products and launching new services while buying back stock at what we think are attractive levels, given our opportunities for growth. We'll expand our programming and seek new opportunities to increase the value of our content portfolio. We're committed to creating new offerings that clearly distinguish Comcast products in the marketplace.

At the same time, we'll continue to invest in the development of our people, and I believe this will prove to be one of our greatest competitive advantages. Steve Burke's vision and energy—coupled with the core values that my father, Ralph, cemented here long ago—have

<sup>16</sup> See definitions on page 16

**8 million**

customers over five years. That's the goal we've set for Comcast Digital Voice, representing approximately 20 percent of the homes in our markets.



helped us build an organization that is not only a leader of the cable industry, but also of the evolving digital world. We cannot thank each of our 80,000 employees enough for their outstanding efforts in 2005. Their hard work and unflinching determination have enabled us to build a powerful new engine for growth that will drive our business to higher and higher levels of performance.

For all of these reasons, I remain firmly confident in our approach, our business strategy and our team. My confidence only grew as I walked the floor of the Consumer Electronics Show earlier this year. As I talked to business leaders there—from device manufacturers and technology giants to leading content companies—I kept hearing the same sentiments voiced over and over again, including “make it simple,” “give consumers more choices” and “put the customer in control.”

The experience was energizing, because these watchwords have guided every decision we’ve made at Comcast for the past decade. We’ll continue to maintain this focus in everything we do, as we seek to expand our leadership as America’s preferred broadband communications service provider.

It’s a great privilege to help manage this amazing company.

Sincerely,



**Brian L. Roberts**

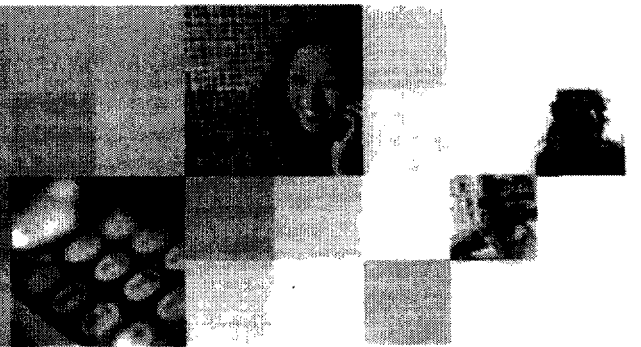
Chairman and Chief Executive Officer

Comcast Corporation

February 21, 2006

## Voice is growing stronger.

We made Comcast Digital Voice easy to use and set up, including professional installation. The service features unlimited local and domestic long-distance calling, Web access to voice mail, Enhanced 911 service, and a dozen other popular calling features, all for one low monthly price.



## Financial Highlights

(All amounts are in millions of U.S. dollars)

	2005	2004	2003
Revenues	\$ 22,255	\$ 20,307	\$ 18,348
Operating Cash Flow	8,493	7,531	6,302
Depreciation and Amortization	4,803	4,623	4,438
Operating Income	3,690	2,908	1,954
Income from continuing operations	928	970	(218)
Discontinued operations	—	—	3,458
Net income	\$ 928	\$ 970	\$ 3,240
Shares Outstanding	2,139	2,212	2,251
Cash and short-term investments	\$ 841	\$ 2,007	\$ 4,043
Total Assets	103,146	104,694	109,159
Total Debt	\$ 23,371	\$ 23,532	\$ 26,906
Total Revenue Generating Units	41.0	38.4	35.8
Subscribers:			
Video	21.4	21.5	21.5
Digital	9.8	8.7	7.7
High-Speed Internet	8.5	7.0	5.3
Phone	1.3	1.2	1.3
Number of Employees	80,000	74,000	68,000

Additional information about Comcast is also contained in our Annual Report on Form 10-K and in our Proxy Statement. We invite you to refer to those documents.

This report may contain forward-looking statements. Factors are disclosed that such forward-looking statements involve risks and uncertainties that could cause actual results to differ from those expressed in any such forward-looking statements. Readers are directed to Comcast's Annual Report on Form 10-K for a description of such risks and uncertainties.

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# Financial Report

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MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Introduction and Overview

We are the nation's largest broadband cable provider and offer a wide variety of consumer entertainment and communication products and services, serving more than 21 million video subscribers, 8 million high-speed Internet subscribers and 1 million phone subscribers. Our broadband cable systems pass over 41 million homes in 35 states and the District of Columbia, including a presence in 22 of the nation's major television markets, commonly known as DMAs. We also have a controlling interest in six national cable networks and other sports and entertainment related businesses. During 2005, our operations generated consolidated revenues of more than \$22 billion.

We classify our operations in two reportable segments: Cable and Content. Our Cable segment develops, manages and operates our broadband cable systems, including video, high-speed Internet and phone services ("cable services").

The majority of our Cable segment revenue is earned from monthly subscriptions for these cable services. Other revenue sources include advertising sales and the operation of our regional sports and news networks. In 2002, our Cable segment more than doubled in size with the acquisition of AT&T Corporation's broadband cable business, which we refer to as "Broadband." The Broadband cable systems at that time included 12.8 million subscribers and other cable-related investments. The Cable segment generates approximately 95% of our consolidated revenues.

Our Content segment consists of our six national cable networks: E! Entertainment Television; Style Network; The Golf Channel; OLN;

G4; and AZN Television. Revenue from our Content segment is earned primarily from advertising sales and from monthly per subscriber license fees paid by cable system operators and satellite television companies.

Our other business interests include Comcast Spectacor, which owns the Philadelphia Flyers, the Philadelphia 76ers and two large multipurpose arenas in Philadelphia, and manages other facilities for sporting events, concerts and other events. Comcast Spectacor and all other businesses not included in our Cable or Content segments are included in "Corporate and Other" activities.

In 2003, we completed the sale to Liberty Media Corporation of our approximate 57% interest in QVC, Inc. (an electronic retailer) for a total value of approximately \$7.7 billion. We present financial information about QVC, Inc. as a discontinued operation in our consolidated financial statements.

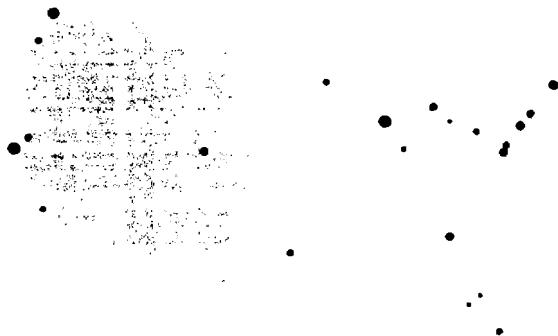
Highlights for 2005 include the following:

Consolidated revenue growth of approximately 9.6% and operating income growth of 26.9%, driven primarily by subscriber growth in our digital cable and high-speed Internet services and price increases in our video service offerings.

The launch of Comcast Digital Voice, our Internet-Protocol ("IP")-enabled phone service, in 25 markets.

The repurchase of approximately \$2.3 billion of our Class A Special common stock under our Board-authorized share repurchase program.

The map below shows the 22 major television markets where we operate and the approximate number of total video subscribers we serve in each of those markets as of December 31, 2005. Approximately 70% of our total video subscribers are in these markets.



(Subscribers in millions)

Atlanta	0.2	Indianapolis	0.4	Portland
Baltimore	0.5	Los Angeles	0.4	Sacramento
Boston	0.6	Miami	1.4	San Francisco
Chicago	0.8	New York	1.1	Seattle
Cleveland	0.1	Orlando	0.4	St. Paul/Minneapolis
Dallas	1.8	Philadelphia	0.2	Tampa/Sarasota
Denver	0.5	Pittsburgh	0.8	Washington, D.C.
Detroit				

Investments in our Content segment to provide more programming options, the most significant of which are:

- In April 2005, we completed a transaction with a group of investors to acquire Metro-Goldwyn-Mayer Inc. ("MGM"). We acquired our 20% interest for approximately \$250 million in cash. This transaction contemplates the inclusion of Sony Pictures and MGM programming in our Video on Demand ("VOD") service.
- In August 2005, we acquired the rights to broadcast National Hockey League games on OLN for the next two years, with options to televise additional seasons. OLN's coverage of NHL games began in October 2005, with some hockey programming also available on VOD and our high-speed Internet service.
- In September 2005, we, together with a group of investors, launched PBS KIDS Sprout, a new 24/7 cable network designed for preschoolers. Some of Sprout's programming is also available on VOD and our high-speed Internet service.

A joint venture with Sprint Nextel Corporation ("Sprint"), Time Warner Cable, Cox Communications and Advance/Newhouse Communications to develop communication and entertainment products for consumers that combine our cable products and interactive features with wireless technology.

The continued investment in technologies that allow us greater control over the development, delivery and quality of our advanced digital cable services.

Agreements for the following transactions, which we expect to close in 2006, that will allow us to continue to grow the number of subscribers in new and existing markets:

- In April 2005 we entered into agreements with Time Warner to: (i) jointly acquire substantially all the assets of Adelphia Communications Corporation; (ii) redeem our interest in Time Warner Cable and its subsidiary, Time Warner Entertainment; and (iii) exchange certain cable systems with Time Warner Cable. As a result of these transactions, on a net basis, our cash investment is expected to be \$1.5 billion and we expect to gain approximately 1.7 million video subscribers in complementary geographic areas (including South Florida, New England, MidAtlantic and Minnesota). The cable systems we expect to transfer to Time Warner in the exchange are located in Los Angeles, Cleveland and Dallas.
- In October 2005, we entered into an agreement with Susquehanna Communications, an organization in which we own an approximate 30% interest, to acquire Susquehanna's cable systems for \$775 million. As a result of this transaction, we expect to add approximately 225,000 video subscribers.

Refer to Note 5 to our consolidated financial statements for information about acquisitions and other significant events.

#### Consolidated Operating Results

Year Ended December 31 (Dollars in millions)	2005	2004	2003	% Change 2004 to 2005	% Change 2003 to 2004
Revenues	\$22,255	\$20,307	\$18,348	9.6%	10.7%
Costs and Expenses					
Operating, selling, general and administrative (excluding depreciation)	13,762	12,776	11,956	7.7	6.9
Depreciation	3,630	3,420	3,166	6.1	8.0
Amortization	1,173	1,203	1,272	(2.5)	(5.4)
Operating Income	3,690	2,908	1,954	26.9	48.8
Other Income (Expense) Items, Net	(1,810)	(1,098)	(2,091)	64.8	(47.5)
Income (Loss) from Continuing Operations before					
Income Taxes and Minority Interest	1,880	1,810	(137)	3.9	n/m
Income Tax (Expense) Benefit	(933)	(826)	16	13.0	n/m
Income (Loss) from Continuing Operations before Minority Interest	947	984	(121)	(3.8)	n/m
Minority Interest	(19)	(14)	(97)	35.7	(85.6)
Income (Loss) from Continuing Operations	\$ 928	\$ 970	\$ (218)	(4.3)%	n/m%

All percentages are calculated based on actual amounts. Minor differences may exist due to rounding.

**Consolidated Revenues**

Our Cable segment accounted for 94.5% and 93.2% of the increases in consolidated revenues for 2005 and 2004, respectively. Our Content segment accounted for 6.8% and 8.1% of the increases in consolidated revenues for 2005 and 2004, respectively. Cable segment and Content segment revenues are discussed separately below in *Segment Operating Results*. These increases were partially offset by the revenue decrease in our other business activities, primarily Comcast Spectacor, whose revenues were adversely affected by the NHL lockout.

**Consolidated Operating, Selling, General and Administrative Expenses**

Our Cable segment accounted for 86.6% and 86.1% of the increases in consolidated operating, selling, general and administrative expenses for 2005 and 2004, respectively. Our Content segment accounted for 11.5% and 13.2% of the increases in consolidated operating, selling, general and administrative expenses for 2005 and 2004, respectively. Cable segment and Content segment operating, selling, general and administrative expenses are discussed separately below in *Segment Operating Results*. The remaining changes relate to our other business activities, primarily Comcast Spectacor.

**Consolidated Depreciation and Amortization**

The increases in depreciation expense are primarily attributable to the effects of capital expenditures in our Cable segment.

The decreases in amortization expense for 2005 and 2004 are primarily attributable to our Cable segment and are primarily attributable to decreases in the amortization of our franchise-related customer relationship intangible assets. These decreases were partially offset by increased amortization expense related to intangibles acquired in various transactions, including Motorola (March 2005) and Gemstar (March 2004), and amortization expense related to intangibles acquired in the TechTV (May 2004) and Liberty exchange (July 2004) transactions. (See Note 5 to our consolidated financial statements for further discussion about these transactions.)

**Segment Operating Results**

To measure the performance of our operating segments, we use operating income before depreciation and amortization, excluding impairment charges related to fixed and intangible assets, and gains or losses from the sale of assets, if any. This measure eliminates the significant level of non-cash depreciation and amortization expense that results from the capital-intensive nature of our businesses and from intangible assets recognized in business combinations. It is also unaffected by our capital structure or investment activities. We use this measure to evaluate our consolidated operating performance, the operating performance of our operating segments, and to allocate resources and capital to our operating segments. It is also a significant component of our annual incentive compensation programs. We believe that this measure is useful to investors because it is one of the bases for comparing our operating performance with other companies in our industries, although our measure may not be directly comparable to similar measures used by other companies. Because we use this metric to measure our segment profit or loss, we reconcile it to operating income, the most directly comparable financial measure calculated and presented in accordance with Generally Accepted Accounting Principles ("GAAP") in the business segment footnote to our consolidated financial statements. You should not consider this measure a substitute for operating income (loss), net income (loss), net cash provided by operating activities, or other measures of performance or liquidity we have reported in accordance with GAAP.

**Cable Segment Overview**

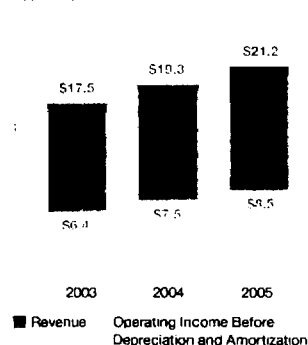
Our Cable segment offers cable services through our broadband cable systems, which offer full two-way capability and can simultaneously provide video, high-speed Internet and phone services to our subscribers. The majority of our Cable segment revenue is earned from subscriptions to these cable services. Subscribers typically pay us monthly, based on their chosen level of service, number of services and the type of equipment they use, and generally may discontinue services at any time. The following is a summary of our Cable segment results of operations.

Cable Segment (Dollars in millions)	2005	2004	2003	% Change 2004 to 2005	% Change 2003 to 2004
Video	\$13,635	\$12,892	\$12,096	5.8%	6.6%
High-speed Internet	3,986	3,124	2,255	27.6	38.5
Phone	687	701	801	(2.0)	(12.5)
Advertising sales	1,359	1,287	1,112	5.6	15.7
Other	811	666	620	21.8	7.4
Franchise fees	680	646	608	5.3	6.3
<b>Revenues</b>	<b>21,158</b>	<b>19,316</b>	<b>17,492</b>	<b>9.5</b>	<b>10.4</b>
Operating expenses	7,514	7,170	6,762	4.8	6.0
Selling, general and administrative expenses	5,186	4,675	4,380	10.9	6.7
<b>Operating income before depreciation and amortization</b>	<b>\$ 8,458</b>	<b>\$ 7,471</b>	<b>\$ 6,350</b>	<b>13.2%</b>	<b>17.6%</b>

#### Cable Segment Revenues

As a result of the growth in the demand for our products and services, discussed further below, we have been able to increase our operating income before depreciation and amortization.

REVENUE AND OPERATING INCOME  
BEFORE DEPRECIATION AND AMORTIZATION  
(in millions)

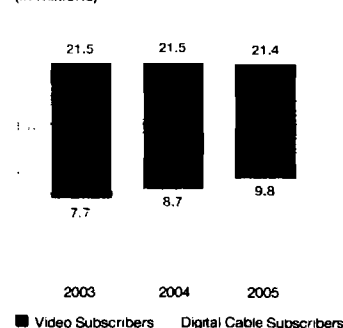


#### Video

We offer a full range of video services ranging from our limited basic service, which provides subscribers access to between 10 and 20 channels, to our full digital cable service, which provides subscribers access to over 250 channels, including premium and pay-per-view channels; VOD (which allows subscribers to access a library of movies, sports and news, and to start their selection whenever they choose, as well as pause, rewind and fast-forward selections); music channels; and an interactive, on-screen program guide (which allows subscribers to navigate the channel lineup and VOD library). Digital cable subscribers may also subscribe to additional advanced services including DVR, which allows subscribers to record programs digitally, and to pause and rewind live television, and HDTV, which provides multiple channels in high definition.

As of December 31, 2005, approximately 46% of our 21.4 million video subscribers subscribed to at least one of our digital services, compared to approximately 40% and approximately 36% as of December 31, 2004 and 2003, respectively.

VIDEO AND DIGITAL SUBSCRIBERS  
(In millions)



Our video revenues continue to grow from price increases and growth in our digital cable services, including the sale of advanced services. As a result of these factors, our average monthly video revenue per video subscriber, measured on an annual basis, increased from \$47 in 2003 to \$53 in 2005, even while our video subscriber base of 21.4 million has been stable.

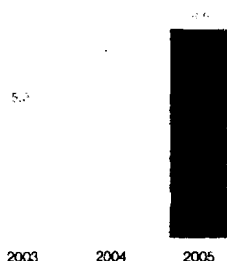
#### High-Speed Internet

We offer high-speed Internet service with downstream speeds generally from 6Mbps to 8Mbps depending on the service selected. Our high-speed Internet service also includes our interactive portal, Comcast.net, which provides multiple e-mail addresses, online storage and a variety of value-added features and enhancements designed to take advantage of the speed of the service we provide.

As of December 31, 2005, 20.7% of our estimated available homes subscribed to our high-speed Internet service, compared to 17.5% and 15.2% as of December 31, 2004 and 2003, respectively. The increases in high-speed Internet revenue are due to the addition of approximately 1.5 million high-speed Internet subscribers in 2005



HIGH-SPEED INTERNET SUBSCRIBERS  
(In millions)



and 1.7 million subscribers in 2004. This growth reflects consumer demand for the faster and more reliable Internet service provided over our broadband cable systems. Average monthly revenue per high-speed Internet subscriber has remained relatively stable between \$42 and \$43, from 2003 through 2005. We expect that the rate of subscriber and revenue growth will slow as the market matures and competition increases.

**Phone**

We offer Comcast Digital Voice, our IP-enabled phone service that provides unlimited local and domestic long-distance calling, including such features as Voice Mail, Caller ID, and Call Waiting. Comcast Digital Voice service was available to 16 million homes in 25 markets at December 31, 2005. We expect that by the end of 2006 approximately 27 million homes will have access to Comcast Digital Voice.

In some areas, we offer our circuit-switched local phone service. Substantially all of this business was obtained in the Broadband acquisition. Subscribers to this service have access to a full array of associated calling features and third-party long-distance services.

The decreases in phone revenue in 2005 and 2004 from the previous year are primarily a result of a reduction in the number of circuit-switched subscribers as we continued to market Comcast Digital Voice. Our circuit-switched subscribers generate higher revenue per subscriber than Comcast Digital Voice subscribers. In 2005, our phone subscribers increased slightly to approximately 1.3 million compared to 1.2 million in 2004 as a result of the increase in Comcast Digital Voice subscribers in the second half of 2005. We expect the number of phone subscribers will grow as we expand Comcast Digital Voice to new markets in 2006.

**Advertising Sales**

As part of our license agreements with cable networks, we often receive an allocation of scheduled advertising time, which we may sell to local, regional and national advertisers. We also coordinate the advertising sales efforts of other cable operators in some markets;

and we have formed and operate advertising interconnects, which establish a physical, direct link between multiple cable systems and provide for the sale of regional and national advertising across larger geographic areas than could be provided by a single cable operator.

The increases in advertising sales revenue for 2005 and 2004 from the previous year are primarily due to the effects of the growth in regional and national advertising as a result of the continued success of our regional interconnects, continued growth in local advertising, and in 2004, an increase in political advertising.

**Franchise Fees**

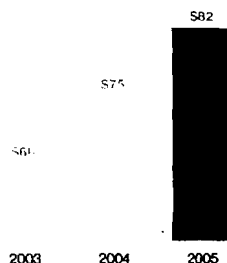
Our franchise fee revenues represent the pass-through to our subscribers of the fees required to be paid to state and local franchising authorities. Under the terms of our franchise agreements, we are generally required to pay up to 5% of our gross revenues to the local franchising authority. The increases in franchise fees collected from our cable subscribers are primarily attributable to the increases in our revenues upon which the fees apply.

**Other**

We also generate revenues from our regional sports and news networks, installation services, commissions from third-party electronic retailing, and fees for other services, such as providing businesses with Internet connectivity and networked business applications. Our regional sports and news networks include Comcast SportsNet (Philadelphia), Comcast SportsNet Mid-Atlantic (Baltimore/Washington), Cable Sports Southeast, CN8—The Comcast Network, Comcast SportsNet Chicago and Comcast SportsNet West (Sacramento). These networks earn revenue through the sale of advertising time and receive license fees paid by cable system operators and satellite television companies. The increase in other revenue for 2005 from the previous year is primarily due to the launch of Comcast SportsNet Chicago and Comcast SportsNet West in the fourth quarter of 2004.

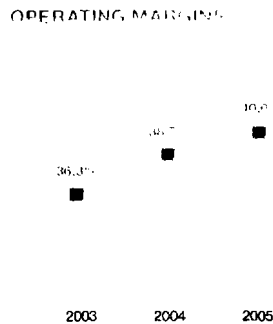
As a result of the growth in our products and services, we have been able to increase our average monthly revenue per video subscriber (including all revenue sources), measured on an annual basis.

AVERAGE MONTHLY TOTAL REVENUE PER VIDEO SUBSCRIBER



#### Cable Segment Expenses

We continue to focus on controlling the growth of expenses which has resulted in steady growth in our operating margins (operating income before depreciation and amortization as a percentage of revenue) over the last three years.



#### Operating Expenses

Cable programming expenses, our largest expense, are the fees we pay to cable networks to license the programming we distribute, package and offer to our video subscribers. These expenses are affected by changes in the rates charged by cable networks, the number of subscribers, and the programming options we offer to subscribers. Cable programming expenses increased \$222 million

to \$4.371 billion in 2005 and \$240 million to \$4.149 billion in 2004. We anticipate our cable programming expenses will increase in the future, as the fees charged by cable networks increase and as we provide additional channels and VOD programming options to our subscribers. We anticipate that these increases may be mitigated to some extent by volume discounts.

Other operating expenses increased \$122 million to \$3.143 billion in 2005 and \$168 million to \$3.021 billion in 2004. The increase in 2005 primarily relates to increases in our technical services group due to the launch of Comcast Digital Voice, the deployment of digital simulcasting and the implementation of a new provisioning system and, to a lesser degree, repairing our cable systems as a result of weather-related damage. The increase in 2004 primarily related to increased technical services costs associated with our growth of our digital cable and high-speed Internet services.

#### Selling, General and Administrative Expenses

Selling, general and administrative expenses increased \$511 million to \$5.186 billion in 2005 and \$295 million to \$4.675 billion in 2004. The increase in 2005 is primarily due to the launch of Comcast Digital Voice, the deployment of digital simulcasting and the implementation of a new provisioning system. The increase in 2004 primarily related to increased customer service and marketing expenses associated with the growth of our digital cable and high-speed Internet services.

#### Content Segment

Our Content segment consists of our national cable networks:

Network	Economic Ownership %	Approximate U.S. Subscribers (in millions)	Description
E! Entertainment Television	60.5%	79.3	Pop culture entertainment-related programming
Style Network	60.5	35.2	Lifestyle-related programming
The Golf Channel	99.9	57.0	Golf-related programming
OLN	100.0	54.9	Sports and leisure programming
G4	83.5	50.6	Gamer lifestyle programming
AZN Television	100.0	13.7	Asian American programming

In addition to the national cable networks above, which we consolidate in our financial statements, we also own non-controlling interests in programming entities including PBS KIDS Sprout (40%), TV One (32.8%) and MGM (20%).

**Content Segment Revenues**

Revenue from our Content segment is earned primarily from advertising sales and from monthly per subscriber license fees paid by cable system operators and satellite television companies. Content revenues for 2005 increased 16.7% to \$919 million and 25.3% to \$787 million in 2004 due to increases in subscriber rates, the number of subscribers and advertising revenue across all of our cable networks. The full-year impact of our acquisition of Tech TV (May 2004) and AZN Television (July 2004) also contributed to a growth in revenues. For 2005, 2004 and 2003, approximately 11% of our Content segment revenues were generated from our Cable segment and are eliminated in our consolidated financial statements, but are included in the amounts presented above.

**Content Segment Operating, Selling, General and Administrative Expenses**

Operating, selling, general and administrative expenses consist mainly of the cost of producing television programs and live events, the purchase of programming rights, marketing and promoting our cable networks, and administrative costs. Content operating, selling, general and administrative expenses for 2005 and 2004 increased \$114 million or 21.7% to \$636 million and \$108 million or 26.0% to \$522 million, respectively, primarily due to an increase in the production and programming rights costs for new and live event programming for our cable networks, including the NHL on OLN, and a corresponding increase in marketing expenses for this programming. The full-year impact of our 2004 acquisitions of Tech TV and AZN also contributed to the growth in 2005 expenses. We have and expect to continue to invest in new and live event programming, such as our recent rights agreement with the NHL, which will cause our Content segment expenses to increase in the future.

**Consolidated Other Income (Expense) Items**

December 31 (Dollars in millions)	2005	2004	2003
Interest expense	\$(1,796)	\$(1,876)	\$(2,018)
Investment income (loss), net	89	472	(84)
Equity in net losses of affiliates	(47)	(88)	(60)
Other income (expense)	(56)	394	71
<b>Total</b>	<b>\$(1,810)</b>	<b>\$(1,098)</b>	<b>\$(2,091)</b>

**Interest Expense**

The decrease in interest expense for 2005 from the previous year is primarily a result of the effects of \$57 million of gains recognized in 2005 and \$69 million of losses recognized in 2004, in connection with the early extinguishment of some of our debt facilities,

partially offset by the effects of higher interest rates on variable rate debt in 2005.

The decrease in interest expense for 2004 from the previous year is primarily a result of the effects of our net debt repayments and the effects of our interest rate risk management program, partially offset by \$69 million of losses recognized in 2004 in connection with the early extinguishment of some of our debt facilities. The decrease for 2004 was also partially offset by the effects of our adoption of Statement of Financial Accounting Standards ("SFAS") No. 150, "Accounting for Certain Financial Instruments with Characteristics of Both Liabilities and Equity" ("SFAS No. 150"), on July 1, 2003. As a result of adopting SFAS No. 150, we included as interest expense for the years 2004 and 2003 \$100 million and \$53 million, respectively, of dividends on a subsidiary's preferred stock. Before the adoption of SFAS No. 150, we classified these dividends as a minority interest.

**Investment Income (Loss), Net**

The components of investment income (loss), net for 2005, 2004 and 2003 are presented in a table in Note 6 to our consolidated financial statements.

We have entered into derivative financial instruments that we account for at fair value and which economically hedge the market price fluctuations in the common stock of all of our investments accounted for as trading securities (as of December 31, 2005). The differences between the unrealized gains or losses on trading securities and hedged items and the mark to market adjustments on derivatives related to trading securities and hedged items, as presented in the table in Note 6, result from one or more of the following:

We did not maintain an economic hedge for our entire investment in the security during some or all of the period.

There were changes in the derivative valuation assumptions such as interest rates, volatility and dividend policy.

The magnitude of the difference between the market price of the underlying security to which the derivative relates and the strike price of the derivative.

The change in the time value component of the derivative value during the period.

The security to which the derivative relates changed due to a corporate reorganization of the issuing company to a security with a different volatility rate.

Mark to market adjustments on derivatives, as presented in the table in Note 6, consist principally of the fair value adjustments for the derivative component of the notes exchangeable into Comcast stock. We were exposed to changes in the fair value of this derivative since the underlying shares of Comcast Class A Special common stock that we hold in treasury are carried at our historical cost and not adjusted for changes in fair value. During 2005, we settled for cash the remaining outstanding obligations related to notes exchangeable into Comcast stock.

#### **Equity in Net Losses of Affiliates**

The decrease in equity in net losses of affiliates for 2005 from the previous year results principally from the effects of changes in the net income or loss of our equity investees, offset by the effects of equity in net losses in 2005 related to our investment in MGM. The increase in equity in net losses of affiliates for 2004 from the previous year results principally from the effects of our additional investments, and from changes in the net income or loss of our equity method investees.

#### **Other Income (Expense)**

Other expense for 2005 consists principally of a \$170 million payment representing our share of the settlement amount related to certain of AT&T's litigation with At Home, partially offset by a \$24 million gain on the exchange of one of our equity method investments and \$62 million of gains recognized on the sale or restructuring of investment assets in 2005. Other income for 2004 consists principally of the \$250 million reduction in the estimated fair value liability associated with certain AT&T securities litigation recorded as part of the Broadband acquisition and the \$94 million gain recognized on the sale of one of our equity method investments. Other income for 2003 consists principally of lease rental income.

#### **Income Tax (Expense) Benefit**

Our effective income tax rate was (49.6)%, (45.6)% and 11.7% for 2005, 2004 and 2003, respectively. Tax expense in 2005 and 2004 reflects an effective income tax rate higher than the federal statutory rate primarily due to state income taxes, adjustments to prior year accruals and related interest, and in 2005, taxes associated with other investments. The tax benefit in 2003 reflects an effective income tax rate significantly lower than the federal statutory rate due to the impact of adjustments to prior year accruals and related interest and the relatively low pre-tax loss. We expect our recent effective tax rates to be more reflective of our anticipated future effective tax rates. However, our tax provision is, in part, based on estimates, and consequently fluctuations may occur (see *Critical Accounting Judgments and Estimates – Income Taxes*).

#### **Minority Interest**

The increase in minority interest for 2005 from the previous year is attributable to increases in the net income of our less than wholly-owned consolidated subsidiaries. The decrease in minority interest for 2004 from the previous year is attributable to the effects of our adoption of SFAS No. 150 on July 1, 2003, under which we now record our subsidiary preferred dividends, previously classified in minority interest, to interest expense and, to a lesser extent, to increases in the net losses of some of our less than wholly-owned consolidated subsidiaries.

#### **Discontinued Operations**

In 2003, we completed the sale to Liberty Media Corporation of our approximate 57% interest in QVC, Inc. (an electronic retailer) for a total value of approximately \$7.7 billion. We present financial information about QVC, Inc. as a discontinued operation in our financial statements.

#### **Liquidity and Capital Resources**

As we describe further below, our businesses generate significant cash flow from operating activities. The proceeds from monetizing our non-strategic investments have also provided us with a significant source of cash flow. We believe that we will be able to meet our current and long term liquidity and capital requirements, including fixed charges, through our cash flows from operating activities, existing cash, cash equivalents and investments; through available borrowings under our existing credit facilities; and through our ability to obtain future external financing. We anticipate continuing to use a substantial portion of our cash flow to fund our capital expenditures, repurchase our stock and to invest in business opportunities.

#### **Operating Activities**

Net cash provided by operating activities from continuing operations amounted to \$4.922 billion for 2005, due principally to our operating income before depreciation and amortization, the effects of interest and income tax payments, payments representing our share of the settlement amounts related to certain of AT&T's litigation with At Home (\$170 million) and certain of AT&T's securities litigation (\$50 million), and changes in operating assets and liabilities.

During 2005, we made cash payments for interest totaling \$1.809 billion. We anticipate that our cash paid for interest will increase modestly in 2006 as average debt balances increase as a result of the pending Adelphia and Time Warner and Susquehanna transactions. During 2005, we made cash payments for income taxes totaling

\$1.137 billion, which included a payment of \$557 million related to unsettled federal tax contingencies from the Broadband acquisition. We anticipate that our income tax payments will continue to be significant in future years.

During 2005, the net decrease in other operating assets and liabilities was \$860 million. The reduction in other operating assets and liabilities is attributable to payments associated with liabilities recorded as part of the Broadband acquisition, including the \$557 million federal tax contingency mentioned above, a \$46 million pension funding and the \$50 million payment representing our share of the settlement related to certain of AT&T's securities litigation.

#### Financing Activities

Net cash used in financing activities from continuing operations was \$933 million for 2005, and consists principally of our net repayments of debt of \$2.706 billion and repurchases of common stock of \$2.313 billion, offset by our borrowings of \$3.978 billion. During 2005, our debt repayments and borrowings consisted of the following:

#### Repayments

\$2.341 billion under senior and medium term notes,

\$253 million of Comcast exchangeable debt, and

\$112 million under capital leases and other debt instruments.

#### Borrowings

\$3.742 billion of senior notes,

\$230 million, net under our commercial paper program, and

\$6 million of other debt instruments.

We have made, and may from time to time in the future make, optional repayments on our debt obligations, which may include open market repurchases of our outstanding public notes and debentures, depending on various factors, such as market conditions.

#### Available Borrowings Under Credit Facilities

We traditionally maintain significant availability under lines of credit to meet our short-term liquidity requirements. Our Commercial Paper Program and Revolving Bank Credit Facilities are described in Note 8 to our consolidated financial statements.

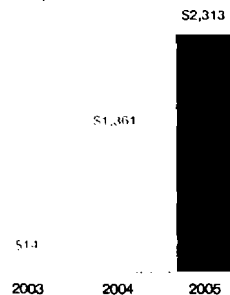
#### Debt Covenants

We and our cable subsidiaries that have provided guarantees (see Note 8 to our consolidated financial statements for information about our Guarantee Structures) are subject to the covenants and restrictions set forth in the indentures governing our public debt securities and in the credit agreement governing our bank credit facilities. We and the guarantors are in compliance with the covenants, and we believe that neither the covenants nor the restrictions in our indentures or loan documents will limit our ability to operate our business or raise additional capital. Our covenants are tested on an ongoing basis. Our new credit facility contains a financial covenant relating only to leverage (ratio of debt to operating income before depreciation and amortization), which we met at December 31, 2005, by a significant margin. Our ability to comply with the financial covenant in the future does not depend on further debt reduction or on improved operating results.

#### Stock Repurchases

During 2005, under our Board-authorized share repurchase program, we repurchased 79.8 million shares of our Class A Special common stock for \$2.3 billion. In January 2006, our Board authorized the repurchase of an additional \$5 billion of Class A or Class A Special common stock under our share repurchase program. We expect such repurchases to continue from time to time in the open market or in private transactions, subject to market conditions.

STOCK REPURCHASES  
(In millions)

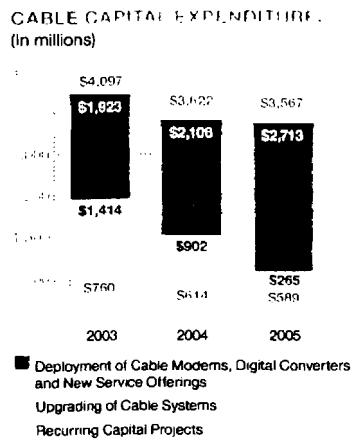


See Note 8 and Note 10 to our consolidated financial statements for further discussion of our financing activities.

### Investing Activities

Net cash used in investing activities from continuing operations was \$3.748 billion for 2005, and consists primarily of capital expenditures of \$3.621 billion, cash paid for intangible assets of \$281 million, various cable system and technology-related acquisitions which aggregated \$199 million and capital contributions to and purchases of investments of \$306 million. These cash outflows were partially offset by proceeds from sales, settlements and restructuring of investments of \$861 million.

**Capital Expenditures.** Our most significant recurring investing activity has been for capital expenditures and we expect that this will continue in the future. The following chart illustrates the capital expenditures we incurred in our Cable segment from 2003 to 2005:



Capital expenditures in our Content segment and our other business activities have been relatively stable from 2003 through 2005.

The amount of our capital expenditures for 2006 and for subsequent years will depend on numerous factors, including acquisitions, competition, changes in technology and the timing and rate of deployment of new services.

**Intangible Assets.** Cash paid for intangible assets primarily relates to software-related intangibles of approximately \$154 million, access agreements with multiple dwelling units (such as apartment buildings and condominium complexes) of approximately \$68 million, and other licenses and intangibles of approximately \$59 million.

Investments. Proceeds from sales, settlements, and restructurings of investments totaled \$861 million during 2005, related to the sales of our non-strategic investments, including Time Warner common stock.

Capital contributions to and purchases of investments primarily relate to our approximate \$250 million investment in MGM.

We do not have any significant contractual funding commitments under any of our investments.

Refer to *Note 6* and *Note 7* to our consolidated financial statements for a discussion of our investments and our intangible assets, respectively.

### Interest Rate Risk Management

We maintain a mix of fixed and variable rate debt. Over 97% of our total debt of \$23.371 billion is at fixed rates with the remaining at variable rates. We are exposed to the market risk of adverse changes in interest rates. In order to manage the cost and volatility relating to our interest cost of our outstanding debt, we enter into various interest rate risk management derivative transactions pursuant to our policies.

We monitor our interest rate risk exposures using techniques that include market value and sensitivity analyses. We do not hold or issue any derivative financial instruments for speculative purposes and we are not a party to leveraged derivative instruments.

We manage the credit risks associated with our derivative financial instruments through the evaluation and monitoring of the credit-worthiness of the counterparties. Although we may be exposed to losses in the event of nonperformance by the counterparties, we do not expect such losses, if any, to be significant.

Our interest-rate derivative financial instruments, which can include swaps, rate locks, caps and collars, represent an integral part of our interest rate risk management program. Through this program, we decreased our interest expense by approximately \$16 million in 2005 and by \$66 million in 2004. Our derivative financial instruments did not have a significant effect on our interest expense in 2003. Interest rate risk management instruments may have a significant effect on our interest expense in the future.

The table set forth below summarizes the fair values and contract terms of financial instruments subject to interest rate risk maintained by us as of December 31, 2005:

(Dollars in millions)	2006	2007	2008	2009	2010	Thereafter	Total	Fair Value 12/31/05
<b>Debt</b>								
Fixed Rate	\$1,666	\$725	\$1,469	\$992	\$1,127	\$16,725	\$22,704	\$24,638
Average Interest Rate	7.5%	8.2%	7.3%	7.5%	5.7%	7.5%	7.4%	
Variable Rate	\$ 23	\$ 54	\$ 7	\$ 10	\$ 573	\$ -	\$ 667	\$ 667
Average Interest Rate	5.8%	5.2%	5.5%	5.6%	4.9%	-	5.0%	
<b>Interest Rate Instruments<sup>(1)</sup></b>								
Fixed to Variable Swaps	\$ 400	\$ -	\$ 600	\$750	\$ 200	\$ 1,650	\$ 3,600	\$ (97)
Average Pay Rate	8.3%	-	8.0%	7.7%	5.9%	5.8%	6.8%	
Average Receive Rate	6.4%	-	6.2%	6.9%	5.9%	5.4%	6.0%	

<sup>(1)</sup> We do not have any variable to fixed swaps at December 31, 2005.

We use the notional amounts on the instruments to calculate the interest to be paid or received. They do not represent the amount of our exposure to credit loss. The estimated fair value approximates the payments necessary to settle the outstanding contracts. We estimate interest rates on variable debt using the average implied forward LIBOR rates for the year of maturity based on the yield curve in effect at December 31, 2005, plus the applicable borrowing margin in effect for the new credit facility at December 31, 2005. We estimate the floating rates on our swaps using the average implied forward LIBOR rates for the year of maturity based on the yield curve in effect at December 31, 2005.

As a matter of practice, we typically do not structure our financial contracts to include credit ratings-based triggers that could affect our liquidity. In the ordinary course of business, some of our swaps could be subject to termination provisions if we do not maintain investment grade credit ratings. As of December 31, 2005, the estimated fair value of those swaps was a liability of \$69 million and was an immaterial amount at December 31, 2004. The amount to be paid or received upon termination, if any, would be based upon the fair value of those outstanding contracts at that time.

#### Equity Price Risk Management

We are exposed to the market risk of changes in the equity prices of our investments in marketable securities. We enter into various derivative transactions pursuant to our policies to manage the volatility relating to these exposures.

Through market value and sensitivity analyses, we monitor our equity price risk exposures to ensure that the instruments are matched with the underlying assets or liabilities, reduce our risks relating to equity prices and maintain a high correlation to the risk inherent in the hedged item.

We use the following equity derivative financial instruments, which we account for at fair value, to limit our exposure to and benefits from price fluctuations in the common stock of some of our investments:

Equity collar agreements;

Prepaid forward sales agreements;

Indexed or exchangeable debt instruments.

Except as described in *Investment Income (Loss), Net* on page 24, the changes in the fair value of our investments that we accounted for as trading securities were substantially offset by the changes in the fair values of the equity derivative financial instruments.

Refer to Note 2 to our consolidated financial statements for a discussion of our accounting policies for derivative financial instruments and to Note 6 and Note 8 to our consolidated financial statements for discussions of our derivative financial instruments.

Stock Option Accounting

In December 2004, the Financial Accounting Standards Board ("FASB") issued SFAS No. 123 (revised 2004), "Share-Based Payment" ("SFAS No. 123R"), which replaces SFAS No. 123, "Accounting for Stock-Based Compensation" ("SFAS No. 123") and supersedes Accounting Principles Board ("APB") Opinion No. 25, "Accounting for Stock Issued to Employees" ("APB No. 25"). In March 2005, the SEC issued Staff Accounting Bulletin No. 107 ("SAB 107") regarding the SEC's interpretation of SFAS No. 123R and the valuation of share-based payments for public companies. SFAS No. 123R requires all

share-based payments to employees, including grants of employee stock options, to be recognized in the financial statements based on their fair values at grant date or later modification. In addition, SFAS No. 123R will cause unrecognized expense (based on the amounts in our pro forma footnote disclosure) related to options vesting after the date of initial adoption to be recognized as a charge to results of operations over the remaining requisite service period. We have elected to adopt SFAS No. 123R on January 1, 2006, using the modified prospective approach. Refer to Note 3 to our consolidated financial statements for further discussion of SFAS No. 123R.

Contractual Obligations

Our unconditional contractual obligations as of December 31, 2005, which consist primarily of our debt obligations and the effect such obligations are expected to have on our liquidity and cash flow in future periods, are summarized in the following table:

Contractual Obligations (Dollars in millions)	Payments Due by Period				
	Total	Year 1	Years 2-3	Years 4-5	More than 5 years
Debt Obligations, excluding Exchangeable Notes <sup>(1)</sup>	\$23,305	\$1,669	\$2,227	\$2,699	\$16,710
Capital lease obligations	66	20	27	4	15
Operating lease obligations	1,405	202	329	249	625
Purchase Obligations <sup>(2)</sup>	9,540	2,778	3,142	1,287	2,333
Other long term liabilities reflected on the balance sheet:					
Acquisition related obligations <sup>(3)</sup>	289	143	103	29	14
Other long term obligations <sup>(4)</sup>	3,891	187	445	153	3,106
<b>Total</b>	<b>\$38,496</b>	<b>\$4,999</b>	<b>\$6,273</b>	<b>\$4,421</b>	<b>\$22,803</b>

Refer to Note 8 (long term debt) and Note 13 (commitments) to our consolidated financial statements.

(1) Excludes interest payments.

(2) Purchase obligations consist of agreements to purchase goods and services that are enforceable and legally binding on us and that specify all significant terms, including fixed or minimum quantities to be purchased, price provisions and timing of the transaction. Our purchase obligations principally relate to our Cable segment, including contracts with programming networks, customer premise equipment manufacturers, communication vendors, other cable operators for which we provide advertising sales representation, and other contracts entered into in the normal course of business. We also have purchase obligations through Comcast Spectacor for the players and coaches of our professional sports teams. We did not include contracts with immaterial future commitments.

(3) Acquisition-related obligations consist primarily of costs related to terminating employees, costs relating to exiting contractual obligations, and other assumed contractual obligations of the acquired entity.

(4) Other long term obligations consist principally of our prepaid forward sales transactions of equity securities we hold, subsidiary preferred shares, deferred compensation obligations, pension, post-retirement and post-employment benefit obligations, and program rights payable under license agreements.



Off-Balance Sheet Arrangements

We do not have any significant off-balance sheet arrangements that are reasonably likely to have a current or future effect on our financial condition, results of operations, liquidity, capital expenditures or capital resources.

Critical Accounting Judgments and Estimates

The preparation of our financial statements requires us to make estimates that affect the reported amounts of assets, liabilities, revenues and expenses, and related disclosure of contingent assets and contingent liabilities. We base our judgments on historical experience and on various other assumptions that we believe are reasonable under the circumstances, the results of which form the basis for making estimates about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions.

We believe our judgments and related estimates associated with the valuation and impairment testing of our cable franchise rights and the accounting for income taxes and legal contingencies are critical in the preparation of our financial statements. Management has discussed the development and selection of these critical accounting judgments and estimates with the Audit Committee of our Board of Directors, and the Audit Committee has reviewed our disclosures relating to them presented below.

Refer to *Note 2* to our consolidated financial statements for a discussion of our accounting policies with respect to these and other items.

Valuation and Impairment Testing of Cable Franchise Rights

Our largest asset, our cable franchise rights, results from agreements we have with state and local governments which allow us to construct and operate a cable business within a specified geographic area. The value of a franchise is derived from the economic benefits we receive from the right to solicit new subscribers and to market new services such as advanced digital services, high-speed Internet, and phone services in our service areas. The amounts we record for cable

franchise rights are primarily the result of cable system acquisitions. Often these cable system acquisitions include multiple franchise territories. Typically when we acquire a cable system, the most significant asset we record is the value of the franchise intangible. We currently serve approximately 4,500 franchise areas in the United States.

We have concluded that our cable franchise rights have an indefinite useful life since there are no legal, regulatory, contractual, competitive, economic or other factors which limit the period over which these rights will contribute to our cash flows. Accordingly, we do not amortize our cable franchise rights but assess them periodically for any impairment in our carrying value according to SFAS No. 142, "Goodwill and Other Intangible Assets."

We assess the carrying value of our cable franchise rights annually, or more frequently whenever events or changes in circumstances indicate that the carrying amount may exceed its fair value (the "impairment test").

Our 2005 impairment tests did not result in an impairment charge. For the purpose of our impairment testing we have aggregated the recorded values of our franchise rights into geographic regions based on the guidance prescribed in Emerging Issues Task Force issue No. 02-7, "Unit of Accounting for Testing of Impairment of Indefinite-Lived Assets." We estimate the fair value of our cable franchise rights primarily based on a discounted cash flow analysis which involves significant judgment in developing individual assumptions for each of the geographic regions, including long term growth rate and discount rate assumptions.

If we determined the value of our cable franchise rights is less than the carrying amount, we would recognize an impairment charge for the difference between the estimated fair value and the carrying value of the assets.

We could record an impairment charge in the future if there are changes in market conditions, operating results in or changes in the groupings of the geographic regions in which we test for impairment, or in federal and state regulations that prevent us from recovering the carrying value of these franchise rights. At our last

impairment test date, the amounts that the estimated fair value of our franchise rights exceeded the carrying value for our 22 geographic regions ranged from approximately \$46 million to in excess of \$3.0 billion. A 10% decline in the estimated fair value of the franchise rights for each of these regions would result in an impairment at four of these regions and an impairment charge of approximately \$750 million.

#### **Income Taxes**

Our provision for income taxes is based on our current period income, changes in deferred income tax assets and liabilities, income tax rates and tax planning opportunities available in the jurisdictions in which we operate. From time to time, we engage in transactions in which the tax consequences may be subject to uncertainty. Examples of such transactions include business acquisitions and disposals, including like-kind exchanges of cable systems, issues related to consideration paid or received in connection with acquisitions, and certain financing transactions. Significant judgment is required in assessing and estimating the tax consequences of these transactions. We prepare and file tax returns based on our interpretation of tax laws and regulations, and we record estimates based on these judgments and interpretations.

In the normal course of business, our tax returns are subject to examination by various taxing authorities. Such examinations may result in future tax and interest assessments by these taxing authorities and we record a liability when we believe that it is probable that we will be assessed. We adjust our estimates periodically because of ongoing examinations by and settlements with the various taxing authorities, as well as changes in tax laws, regulations and precedent. The effects on our financial statements of income tax uncertainties that arise in connection with business combinations

and those associated with entities acquired in business combinations are discussed in *Note 2* to our consolidated financial statements. The consolidated tax provision of any given year includes adjustments to prior year income tax accruals that are considered appropriate and any related estimated interest. We believe that adequate accruals have been made for income taxes. Differences between the estimated and actual amounts determined upon ultimate resolution, individually or in the aggregate, are not expected to have a material adverse effect on our consolidated financial position but could possibly be material to our consolidated results of operations or cash flow of any one period.

#### **Legal Contingencies**

We are subject to legal, regulatory and other proceedings and claims that arise in the ordinary course of our business and, in certain cases, those that we assume from an acquired entity in a business combination. We record an estimated liability for those proceedings and claims arising in the ordinary course of business based upon the probable and reasonably estimable criteria contained in SFAS No. 5, "Accounting for Contingencies." For those litigation contingencies assumed in a business combination subsequent to the adoption of SFAS No. 141, we record a liability based on estimated fair value when we can determine such fair value. We review outstanding claims with internal as well as external counsel to assess the probability and the estimates of loss. We reassess the risk of loss as new information becomes available, and we adjust liabilities as appropriate. The actual cost of resolving a claim may be substantially different from the amount of the liability recorded.

REPORT OF MANAGEMENT

Management's Report on Financial Statements

Our management is responsible for the preparation, integrity and fair presentation of information in our consolidated financial statements, including estimates and judgments. The consolidated financial statements presented in this report have been prepared in accordance with accounting principles generally accepted in the United States of America. Our management believes the consolidated financial statements and other financial information included in this report fairly present, in all material respects, our financial condition, results of operations and cash flows as of and for the periods presented in this report. The consolidated financial statements have been audited by Deloitte & Touche LLP, an independent registered public accounting firm, as stated in their report, which is included herein.

Management's Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining an adequate system of internal control over financial reporting. Our system of internal control over financial reporting is designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with accounting principles generally accepted in the United States of America.

Our internal control over financial reporting includes those policies and procedures that:

- Pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect our transactions and dispositions of our assets.

Provide reasonable assurance that our transactions are recorded as necessary to permit preparation of our financial statements in accordance with accounting principles generally accepted in the United States of America, and that our receipts and expenditures are being made only in accordance with authorizations of our management and our directors.

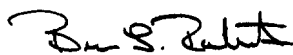
Provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of our assets that could have a material effect on the financial statements.

Because of its inherent limitations, a system of internal control over financial reporting can provide only reasonable assurance and may not prevent or detect misstatements. Further, because of changes in conditions, effectiveness of internal controls over financial reporting may vary over time. Our system contains self-monitoring mechanisms, and actions are taken to correct deficiencies as they are identified.

Our management conducted an evaluation of the effectiveness of the system of internal control over financial reporting based on the framework in *Internal Control – Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on this evaluation, our management concluded that our system of internal control over financial reporting was effective as of December 31, 2005. Our management's assessment of the effectiveness of our internal control over financial reporting has been audited by Deloitte & Touche LLP, an independent registered public accounting firm, as stated in their report, which is included herein.

Audit Committee Oversight

The Audit Committee of the Board of Directors, which is comprised solely of independent directors, has oversight responsibility for our financial reporting process and the audits of our consolidated financial statements and internal control over financial reporting. The Audit Committee meets regularly with management and with our internal auditors and independent registered public accounting firm (collectively, the "auditors") to review matters related to the quality and integrity of our financial reporting, internal control over financial reporting (including compliance matters related to our Code of Ethics and Business Conduct), and the nature, extent, and results of internal and external audits. Our auditors have full and free access and report directly to the Audit Committee. The Audit Committee recommended, and the Board of Directors approved, that the audited consolidated financial statements be included in this Annual Report.




Brian L. Roberts  
Chairman and CEO



John R. Alchin  
Executive Vice President,  
Co-Chief Financial Officer and  
Treasurer



Lawrence S. Smith  
Executive Vice President  
Co-Chief Financial Officer



Lawrence J. Salva  
Senior Vice President,  
Chief Accounting Officer  
and Controller

## REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

Board of Directors and Stockholders  
Comcast Corporation  
Philadelphia, Pennsylvania

We have audited the accompanying consolidated balance sheet of Comcast Corporation and subsidiaries (the "Company") as of December 31, 2005 and 2004, and the related consolidated statements of operations, cash flows and stockholders' equity for each of the three years in the period ended December 31, 2005. We also have audited management's assessment, included under the caption *Management's Report on Internal Control Over Financial Reporting*, that the Company maintained effective internal control over financial reporting as of December 31, 2005, based on criteria established in *Internal Control – Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission. The Company's management is responsible for these financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting. Our responsibility is to express an opinion on these financial statements, an opinion on management's assessment, and an opinion on the effectiveness of the Company's internal control over financial reporting based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement and whether effective internal control over financial reporting was maintained in all material respects. Our audits of the financial statements included examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, evaluating management's assessment, testing and evaluating the design and operating effectiveness of internal control, and performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

A company's internal control over financial reporting is a process designed by, or under the supervision of, the company's principal executive and principal financial officers, or persons performing similar functions, and effected by the company's board of directors, management, and other personnel to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally

accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of the inherent limitations of internal control over financial reporting, including the possibility of collusion or improper management override of controls, material misstatements due to error or fraud may not be prevented or detected on a timely basis. Also, projections of any evaluation of the effectiveness of the internal control over financial reporting to future periods are subject to the risk that the controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of Comcast Corporation and subsidiaries as of December 31, 2005 and 2004, and the results of their operations and their cash flows for each of the three years in the period ended December 31, 2005, in conformity with accounting principles generally accepted in the United States of America. Also, in our opinion, management's assessment that the Company maintained effective internal control over financial reporting as of December 31, 2005, is fairly stated, in all material respects, based on the criteria established in *Internal Control – Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission. Furthermore, in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2005, based on the criteria established in *Internal Control – Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission.

*Deloitte & Touche LLP*

Deloitte & Touche LLP  
Philadelphia, Pennsylvania  
February 21, 2006

## CONSOLIDATED BALANCE SHEET

December 31 (Dollars in millions, except share data)	2005	2004
<b>Assets</b>		
<b>Current Assets</b>		
Cash and cash equivalents	\$ 603	\$ 452
Investments	148	1,555
Accounts receivable, less allowance for doubtful accounts of \$136 and \$132	1,060	959
Prepaid assets	367	261
Other current assets	306	308
Total current assets	2,594	3,535
Investments	12,582	12,812
Property and Equipment, net of accumulated depreciation of \$12,629 and \$9,416	18,789	18,711
Franchise Rights	51,000	51,071
Goodwill	14,218	14,020
Other Intangible Assets, net of accumulated amortization of \$4,776 and \$3,452	3,100	3,851
Other Noncurrent Assets, net	833	694
	<b>\$103,148</b>	<b>\$104,894</b>
<b>Liabilities and Stockholders' Equity</b>		
<b>Current Liabilities</b>		
Accounts payable and accrued expenses related to trade creditors	\$ 2,033	\$ 2,041
Accrued salaries and wages	381	337
Other current liabilities	2,164	2,398
Deferred income taxes	2	360
Current portion of long term debt	1,669	3,499
Total current liabilities	6,269	8,635
Long Term Debt, less current portion	21,882	20,093
Deferred Income Taxes	27,370	26,815
Other Noncurrent Liabilities	6,340	7,261
Minority Interest	687	468
Commitments and Contingencies (Note 13)		
<b>Stockholders' Equity</b>		
Preferred stock – authorized, 20,000,000 shares; issued, zero	-	-
Class A common stock, \$0.01 par value – authorized, 7,500,000,000 shares; issued, 1,607,007,818 and 1,603,320,864; outstanding, 1,363,367,318 and 1,359,680,364	16	16
Class A Special common stock, \$0.01 par value – authorized, 7,500,000,000 shares; issued, 813,097,757 and 890,234,413; outstanding, 765,807,914 and 842,944,570	9	9
Class B common stock, \$0.01 par value – authorized, 75,000,000 shares; issued, and outstanding, 9,444,375	-	-
Additional capital	43,000	44,142
Retained earnings	4,625	4,891
Treasury stock, 243,640,500 Class A common shares and 47,289,843 Class A Special common shares	(7,517)	(7,517)
Accumulated other comprehensive loss	(114)	(119)
Total stockholders' equity	40,219	41,422
	<b>\$103,148</b>	<b>\$104,894</b>

See notes to consolidated financial statements.

## CONSOLIDATED STATEMENT OF OPERATIONS

Year Ended December 31 (Dollars in millions, except per share data)	2005	2004	2003
Revenues	\$22,255	\$20,307	\$18,348
Costs and Expenses			
Operating (excluding depreciation)	7,989	7,462	7,041
Selling, general and administrative	5,793	5,314	4,915
Depreciation	3,630	3,420	3,166
Amortization	1,173	1,203	1,272
	18,585	17,399	16,394
Operating Income	3,690	2,908	1,954
Other Income (Expense)			
Interest expense	(1,796)	(1,876)	(2,018)
Investment income (loss), net	89	472	(84)
Equity in net losses of affiliates	(47)	(88)	(80)
Other income (expense)	(86)	394	71
	(1,810)	(1,098)	(2,091)
Income (Loss) from Continuing Operations Before Income Taxes and Minority Interest	1,880	1,810	(137)
Income Tax (Expense) Benefit	(933)	(826)	16
Income (Loss) from Continuing Operations Before Minority Interest	947	984	(121)
Minority Interest	(19)	(14)	(97)
Income (Loss) from Continuing Operations	928	970	(218)
Income from Discontinued Operations, net of tax	-	-	168
Gain on Discontinued Operations, net of tax	-	-	3,290
Net Income	\$ 928	\$ 970	\$ 3,240
Basic Earnings (Loss) for Common Stockholders per Common Share			
Income (loss) from continuing operations	\$ 0.42	\$ 0.43	\$ (0.10)
Income from discontinued operations	-	-	0.08
Gain on discontinued operations	-	-	1.46
Net income	\$ 0.42	\$ 0.43	\$ 1.44
Diluted Earnings (Loss) for Common Stockholders per Common Share			
Income (loss) from continuing operations	\$ 0.42	\$ 0.43	\$ (0.10)
Income from discontinued operations	-	-	0.08
Gain on discontinued operations	-	-	1.46
Net income	\$ 0.42	\$ 0.43	\$ 1.44

See notes to consolidated financial statements.

## CONSOLIDATED STATEMENT OF CASH FLOWS

Year Ended December 31 (Dollars in millions)	2005	2004	2003
<b>Operating Activities</b>			
Net income	\$ 928	\$ 970	\$ 3,240
Income from discontinued operations	-	-	(168)
Gain on discontinued operations	-	-	(3,290)
Income (loss) from continuing operations	928	970	(218)
Adjustments to reconcile income (loss) from continuing operations to net cash provided by operating activities from continuing operations:			
Depreciation	3,830	3,420	3,166
Amortization	1,173	1,203	1,272
Non-cash interest expense (income), net	8	33	(113)
Equity in net losses of affiliates	47	88	60
(Gains) losses on investments and other (income) expense, net	(54)	(703)	145
Non-cash contribution expense	10	25	-
Minority interest	19	14	45
Deferred income taxes	183	531	820
Proceeds from sales of trading securities	-	880	85
Current tax associated with sale of discontinued operation	-	-	(2,028)
Change in operating assets and liabilities, net of effects of acquisitions and divestitures:			
Change in accounts receivable, net	(97)	(54)	(45)
Change in accounts payable and accrued expenses related to trade creditors	(65)	(315)	35
Change in other operating assets and liabilities	(600)	38	(370)
Net cash provided by operating activities from continuing operations	4,922	5,930	2,854
<b>Financing Activities</b>			
Proceeds from borrowings	3,976	1,030	9,398
Retirements and repayments of debt	(2,706)	(2,323)	(16,465)
Issuances of common stock	93	113	67
Repurchases of common stock and stock options held by non-employees	(2,313)	(1,361)	(14)
Deferred financing costs	-	-	(34)
Other financing activities	15	25	-
Net cash used in financing activities from continuing operations	(633)	(2,516)	(7,048)
<b>Investing Activities</b>			
Capital expenditures	(3,621)	(3,660)	(4,161)
Proceeds from sales, settlements and restructuring of investments	861	228	7,971
Acquisitions, net of cash acquired	(199)	(296)	(152)
Cash paid for intangible assets	(281)	(615)	(155)
Purchases of short term investments, net	(86)	(13)	(32)
Proceeds from sales of discontinued operations and assets held for sale	-	-	1,875
Capital contributions to and purchases of investments	(306)	(156)	(202)
Proceeds from settlement of contract of acquired company	-	26	95
Other investing activities	(116)	(26)	-
Net cash (used in) provided by investing activities from continuing operations	(3,748)	(4,512)	5,239
Increase (Decrease) in Cash and Cash Equivalents	241	(1,098)	1,045
Cash and Cash Equivalents, beginning of year	452	1,550	505
<b>Cash and Cash Equivalents, end of year</b>	<b>\$ 693</b>	<b>\$ 452</b>	<b>\$ 1,550</b>

See notes to consolidated financial statements.

## CONSOLIDATED STATEMENT OF STOCKHOLDERS' EQUITY

(Dollars in millions)	Common Stock Class			Additional Capital	Retained Earnings	Treasury Stock At Cost	Accumulated Other Comprehensive Income (Loss)			Total
	A	Special	B				Unrealized Gains (Losses)	Cumulative Translation Adjustments	Minimum Pension Liability	
Balance, January 1, 2003	\$16	\$9	\$-	\$44,620	\$1,340	\$(7,517)	\$(118)	\$(21)	\$-	\$38,329
Comprehensive income:										
Net income					3,240					
Unrealized losses on marketable securities, net of deferred taxes of \$12							(23)			
Reclassification adjustments for losses included in net income, net of deferred taxes of \$15							29			
Cumulative translation adjustments								(7)		
Total comprehensive income										3,239
Stock compensation plans				117	(28)					89
Repurchase and retirement of common stock				(14)						(14)
Employee stock purchase plan				19						19
Balance, December 31, 2003	16	9	-	44,742	4,552	(7,517)	(112)	(28)	-	41,662
Comprehensive income:										
Net income					970					
Reclassification adjustments for losses included in net income, net of deferred taxes							1			
Cumulative translation adjustments								20		
Total comprehensive income										991
Stock compensation plans				130	(73)					57
Repurchase and retirement of common stock				(758)	(558)					(1,316)
Employee stock purchase plan				28						28
Balance, December 31, 2004	16	9	-	44,142	4,891	(7,517)	(111)	(8)	-	41,422
Comprehensive income:										
Net income					928					
Unrealized gains on marketable securities, net of deferred taxes of \$11							20			
Reclassification adjustments for income included in net income, net of deferred taxes of \$2							(4)			
Minimum pension liability, net of deferred taxes of \$7									(12)	
Cumulative translation adjustments								1		
Total comprehensive income										933
Stock compensation plans				120						120
Repurchase and retirement of common stock				(1,295)	(994)					(2,289)
Employee stock purchase plan				33						33
Balance, December 31, 2005	\$16	\$9	\$-	\$43,000	\$4,825	\$(7,517)	\$(95)	\$(7)	\$(12)	\$40,218

See notes to consolidated financial statements



## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

1. Organization and Business

We are a Pennsylvania corporation and were incorporated in December 2001. Through our predecessors, we have developed, managed and operated broadband cable systems since 1963. We classify our operations in two reportable segments: Cable and Content.

Our Cable segment is principally involved in the development, management and operation of broadband cable systems in the United States. Our cable operations served more than 21 million video subscribers as of December 31, 2005. Our regional sports and news networks are included in our Cable segment because they derive a substantial portion of their revenues from our cable operations. In 2002, we acquired AT&T Corporation's broadband cable business ("Broadband"), which at the time included 12.8 million subscribers and other cable-related investments.

Our Content segment operates the following consolidated cable networks: E! Entertainment Television ("E!"), Style Network, The Golf Channel ("TGC"), OLN, G4 and AZN Television.

Our other businesses consist principally of Comcast Spectacor, our group of businesses that perform live sporting events and own or manage facilities for sporting events, concerts and other special events, and our corporate activities.

On September 17, 2003, we sold our approximate 57% interest in QVC, Inc. (an electronic retailer). Accordingly, we present QVC as a discontinued operation pursuant to Statement of Financial Accounting Standards ("SFAS") No. 144, "Accounting for the Impairment or Disposal of Long-Lived Assets" ("SFAS No. 144") (see Note 5).

2. Summary of Significant Accounting PoliciesBasis of Consolidation

The consolidated financial statements include our accounts, all entities that we directly or indirectly control and certain variable interest entities. We have eliminated all significant intercompany accounts and transactions among consolidated entities.

Variable Interest Entities

We account for our interests in variable interest entities ("VIEs") in accordance with Financial Accounting Standards Board ("FASB") Interpretation No. 46, "Consolidation of Variable Interest Entities" ("FIN 46"), as amended. We consolidate all VIEs for which we are the primary beneficiary and for which the entities do not effectively disperse risks among parties involved. We do not consolidate VIEs that effectively disperse risks unless we hold an interest or combination of interests that effectively recombines risks that were previously dispersed.

Our Use of Estimates

We prepare our consolidated financial statements in conformity with accounting principles generally accepted in the United States of America ("GAAP"), which require us to make estimates and assumptions that affect the reported amounts and disclosures. Actual results could differ from those estimates. Estimates are used when accounting for various items, such as allowances for doubtful accounts, investments, derivative financial instruments, asset impairment, non-monetary transactions, certain acquisition related liabilities, programming related liabilities, pensions and other postretirement benefits, revenue recognition, depreciation and amortization, income taxes and legal contingencies.

Fair Values

We have determined the estimated fair value amounts presented in these consolidated financial statements using available market information and appropriate methodologies. However, considerable judgment is required in interpreting market data to develop the estimates of fair value. The estimates presented in these consolidated financial statements are not necessarily indicative of the amounts that we could realize in a current market exchange. The use of different market assumptions and/or estimation methodologies may have a material effect on the estimated fair value amounts. We based these fair value estimates on pertinent information available to us as of December 31, 2005 and 2004. We have not comprehensively updated these fair value estimates for the purposes of these consolidated financial statements since those dates.

Cash Equivalents

Cash equivalents consist principally of commercial paper, money market funds, U.S. government obligations and certificates of deposit with maturities of less than three months when purchased. The carrying amounts of our cash equivalents approximate their fair values.

**Investments**

Investments in entities in which we have the ability to exercise significant influence over the operating and financial policies of the investee are accounted for under the equity method. Equity method investments are recorded at original cost and adjusted to recognize our proportionate share of the investees' net income or losses after the date of investment, amortization of basis differences, additional contributions made and dividends received and impairment charges resulting from adjustments to net realizable value. We generally record our proportionate share of our investees' net income or loss one quarter in arrears given the timing of the receipt of such information.

Changes in our proportionate share of the underlying equity of a consolidated subsidiary or equity method investee that result from the issuance of additional securities by such subsidiary or investee are recognized as gains or losses in our consolidated statement of operations unless gain realization is not assured in the circumstances. Gains for which realization is not assured are credited directly to additional capital.

Unrestricted publicly traded investments are classified as available for sale or trading securities and are recorded at their fair value. Unrealized gains or losses resulting from changes in fair value between measurement dates for available for sale securities are recorded as a component of other comprehensive income (loss), except for declines in value that we consider to be other than temporary. Unrealized gains or losses resulting from changes in fair value between measurement dates for trading securities are recorded as a component of investment income (loss), net. We recognize realized gains and losses using the specific identification method. Cash flows from all trading securities are classified as cash flows from operating activities as required by SFAS No. 95, "Statement of Cash Flows," as amended, while cash flows from all other investment securities are classified as cash flows from investing activities in our statement of cash flows.

We review our investment portfolio each reporting period to determine whether a decline in the market value is considered to be other than temporary. Investments deemed to have experienced an other than temporary decline below their cost basis are reduced to their current fair market value. The impairment is charged to earnings and a new cost basis for the investment is established.

Restricted publicly traded investments and investments in privately held companies are stated at cost, adjusted for any known decrease in value (see Note 6).

**Property and Equipment**

Depreciation is generally recorded using the straight-line method over estimated useful lives. The significant components of property and equipment are as follows:

December 31 (Dollars in millions)	Useful Life	2005	2004
Transmission and distribution facilities	2-15 years	\$ 27,222	\$24,239
Buildings and building improvements	5-40 years	1,300	1,365
Land	-	156	152
Other	3-12 years	2,721	2,371
Property and equipment, at cost		31,399	28,127
Less: accumulated depreciation		(12,629)	(9,416)
<b>Property and equipment, net</b>		<b>\$ 18,769</b>	<b>\$18,711</b>

We capitalize improvements that extend asset lives and expense other repairs and maintenance charges as incurred. The cost and related accumulated depreciation applicable to assets sold or retired are removed from the accounts and, unless they are presented separately, the gain or loss on disposition is recognized as a component of depreciation expense.

We capitalize the costs associated with the construction of cable transmission and distribution facilities and new service installations. Costs include all direct labor and materials, as well as various indirect costs.

**Asset Retirement Obligations**

SFAS No. 143, "Accounting for Asset Retirement Obligations," as interpreted by FASB Interpretation ("FIN") No. 47, "Accounting for Conditional Asset Retirement Obligations - an Interpretation of FASB Statement No. 143," requires that a liability be recognized for an asset retirement obligation in the period in which it is incurred if a reasonable estimate of fair value can be made. Certain of our franchise agreements and leases contain provisions requiring us to restore facilities or remove equipment in the event that the franchise or lease agreement is not renewed. We expect to continually renew our

franchise agreements and have concluded that the related franchise right is an indefinite lived intangible asset. Accordingly, the possibility is remote that we would be required to incur significant restoration or removal costs related to these franchise agreements in the foreseeable future. We would record an estimated liability in the unlikely event a franchise agreement containing such a provision were no longer expected to be renewed. The obligations related to the removal provisions contained in our lease agreements or any disposal obligations related to our operating assets are not estimatable or are not material to our consolidated financial condition or results of operations.

#### **Intangible Assets**

Cable franchise rights represent the value attributed to agreements with local authorities that allow access to homes in cable service areas acquired in connection with business combinations. We do not amortize cable franchise rights because we have determined that they have an indefinite life. We reassess this determination periodically for each franchise based on the factors included in SFAS No. 142, "Goodwill and Other Intangible Assets" ("SFAS No. 142"). Costs we incur in negotiating and renewing cable franchise agreements are included in other intangible assets and are principally amortized on a straight-line basis over the term of the franchise renewal period, generally 10 years.

Goodwill is the excess of the acquisition cost of an acquired entity over the fair value of the identifiable net assets acquired. Other intangible assets consist principally of franchise related customer relationships acquired in business combinations subsequent to the adoption of SFAS No. 141, "Business Combinations" ("SFAS No. 141"), on July 1, 2001, cable and satellite television distribution rights, cable franchise renewal costs, contractual operating rights, computer software, programming costs and rights, patents and technology rights, and non-competition agreements. We record these costs as assets and amortize them on a straight-line basis over the term of the related agreements or estimated useful life, which generally range from 2 to 20 years.

Our Content subsidiaries enter into multi-year license agreements with various cable and satellite television system operators for distribution of their respective programming. We capitalize cable or satellite television distribution rights and amortize them on a straight-line basis over the term of the related license agreements of 4 to 11 years. We classify the amortization of license fees paid by our Content subsidiaries pursuant to Emerging Issues Task Force ("EITF") 01-09, "Accounting for Consideration Given to a Customer (including a reseller of the Vendor's Products)" ("EITF 01-09"). Under EITF 01-09, the amortization of such fees is classified as a reduction

of revenue unless the Content subsidiary receives, or will receive, an identifiable benefit from the cable or satellite system operator separate from the license fee, in which case we recognize the fair value of the identified benefit as an operating expense in the period in which it is received.

Direct development costs associated with internal-use software are capitalized, including external direct costs of material and services, and payroll costs for employees devoting time to the software projects. Such costs are included within intangible assets and are amortized over a period not to exceed 5 years beginning when the asset is substantially ready for use. Costs incurred during the preliminary project stage, as well as maintenance and training costs, are expensed as incurred. Initial operating system software costs are capitalized and amortized over the life of the associated hardware.

#### **Valuation of Long-Lived and Indefinite Lived Assets**

In accordance with SFAS No. 144, "Accounting for the Impairment or Disposal of Long-Lived Assets," we periodically evaluate the recoverability and estimated lives of our long-lived assets, including property and equipment and intangible assets subject to amortization, whenever events or changes in circumstances indicate that the carrying amount may not be recoverable or the useful life has changed. Our evaluations include analyses based on the cash flows generated by the underlying assets, profitability information, including estimated future operating results, trends or other determinants of fair value. If the total of the expected future undiscounted cash flows is less than the carrying amount of the asset, a loss is recognized for the difference between the fair value and the carrying value of the asset. Unless presented separately, the loss is included as a component of either depreciation expense or amortization expense, as appropriate.

We evaluate the recoverability of our goodwill and indefinite life intangible assets annually or more frequently whenever events or changes in circumstances indicate that the assets might be impaired. We perform the impairment assessment of our goodwill one level below the business segment level, except for our cable business. In our cable business, components one level below the segment level are not separate reporting units and also have similar economic characteristics that allow them to be aggregated into one reporting unit at the Cable segment level.

We estimate the fair value of our cable franchise rights primarily based on discounted cash flow analysis, multiples of operating income before depreciation and amortization generated by the underlying assets, analyses of current market transactions and profitability information, including estimated future operating results,

trends or other determinants of fair value. If the value of our cable franchise rights determined by these evaluations is less than its carrying amount, an impairment charge would be recognized for the difference between the estimated fair value and the carrying value of the assets.

Upon adoption of SFAS No. 142 in 2002, we performed the impairment assessment of our cable franchise rights at the Cable segment level based on our analysis of the factors outlined in EITF 02-07, "Unit of Accounting for Testing Impairment of Indefinite Lived Intangible Assets." Effective in the first quarter of 2004, we changed the unit of accounting used for testing impairment to geographic regions and performed impairment testing on our cable franchise rights. We have not recorded any impairment charges as a result of our impairment testing.

#### **Foreign Currency Translation**

We translate assets and liabilities of our foreign subsidiaries, where the functional currency is the local currency, into U.S. dollars at the December 31 exchange rate and record the related translation adjustments as a component of other comprehensive income (loss). We translate revenues and expenses using average exchange rates prevailing during the year. Foreign currency transaction gains and losses are included in other income (expense).

#### **Revenue Recognition**

We recognize video, high-speed Internet and phone revenues as the service is provided. We manage credit risk by screening applicants for potential risk through the use of credit bureau data. If a subscriber's account is delinquent, various measures are used to collect outstanding amounts, up to and including termination of the subscriber's cable service. We recognize advertising sales revenue at estimated realizable values when the advertising is aired. Installation revenues obtained from the connection of subscribers to our broadband cable systems are less than related direct selling costs. Therefore, such revenues are recognized as connections are completed. Revenues earned from other sources are recognized when services are provided or events occur. Under the terms of our franchise agreements, we are generally required to pay to the local franchise authority up to 5% of our gross revenues earned from providing cable services within the local franchise area. We normally pass these fees through to our cable subscribers. We classify fees collected from cable subscribers as a component of revenues pursuant to EITF 01-14, "Income Statement Characterization of Reimbursements Received for 'Out-of-Pocket' Expenses Incurred."

Our Content businesses recognize revenue from cable and satellite television system operators as programming is provided, generally pursuant to multi-year license agreements. From time to time these agreements expire while programming continues to be provided to the operator based upon interim arrangements while the parties negotiate new contractual terms. Revenue recognition is generally limited to current payments being made by the operator, typically pursuant to the prior contract terms, until a new contract is negotiated, sometimes with effective dates that affect prior periods. Differences between actual amounts determined upon resolution of negotiations and amounts recorded during these interim arrangements are recorded in the period of resolution.

Advertising revenue is recognized in the period in which commercial announcements or programs are telecast in accordance with the broadcast calendar. In some instances, our Content businesses guarantee viewer ratings for their programming. Revenue is deferred to the extent of an estimated shortfall in the ratings. Such shortfalls are primarily settled by providing additional advertising time, at which point the revenue is recognized.

#### **Programming Costs**

Programming is acquired for distribution to our subscribers, generally pursuant to multi-year license agreements, with rates typically based on the number of subscribers that receive the programming. From time to time these contracts expire and programming continues to be provided based on interim arrangements while the parties negotiate new contractual terms, sometimes with effective dates that affect prior periods. While payments are typically made under the prior contract terms, the amount of our programming costs recorded during these interim arrangements is based on our estimates of the ultimate contractual terms expected to be negotiated.

Our cable subsidiaries have received or may receive incentives from cable networks for license of their programming. We classify the deferred portion of these fees within noncurrent liabilities and recognize the fees as a reduction of programming costs (which are included in operating expenses) over the term of the contract.

#### **Stock Based Compensation**

We account for stock based compensation in accordance with Accounting Principles Board ("APB") Opinion No. 25, "Accounting for Stock Issued to Employees" ("APB No. 25"), and related interpretations, as permitted by SFAS No. 123, "Accounting for Stock Based Compensation," as amended ("SFAS No. 123"). Compensation expense for stock options is measured as the excess, if any, of the

quoted market price of the stock at the date of the grant over the amount an optionee must pay to acquire the stock. We record compensation expense for restricted stock awards based on the quoted market price of our stock at the date of the grant and the vesting period. We record compensation expense for stock appreciation rights based on the changes in quoted market prices of the stock or other determinants of fair value.

The following table illustrates the effect on net income and earnings (loss) per share if we had applied the fair value recognition provisions of SFAS No. 123 to stock based compensation. Total stock based compensation expense was determined under the fair value method for all awards using the accelerated recognition method as permitted under SFAS No. 123:

Year Ended December 31 (Dollars in millions, except per share data)	2005	2004	2003
Net income, as reported	\$ 928	\$ 970	\$3,240
Add: Stock based compensation expense included in net income, as reported above	42	27	10
Deduct: Stock based compensation expense determined under fair value based method for all awards relating to continuing operations, net of related tax effects	(150)	(206)	(160)
Deduct: Stock based compensation expense determined under fair value based method for all awards relating to discontinued operations, net of related tax effects	-	-	(12)
<b>Pro forma, net income</b>	<b>\$ 820</b>	<b>\$ 791</b>	<b>\$3,078</b>
Basic earnings (loss) from continuing operations for common stockholders per common share:			
As reported	\$0.42	\$0.43	\$ (0.10)
Pro forma	\$0.37	\$0.35	\$ (0.16)
Diluted earnings (loss) from continuing operations for common stockholders per common share:			
As reported	\$0.42	\$0.43	\$ (0.10)
Pro forma	\$0.37	\$0.35	\$ (0.16)
Basic earnings for common stockholders per common share:			
As reported	\$0.42	\$0.43	\$ 1.44
Pro forma	\$0.37	\$0.35	\$ 1.36
Diluted earnings for common stockholders per common share:			
As reported	\$0.42	\$0.43	\$ 1.44
Pro forma	\$0.37	\$0.35	\$ 1.36

On December 23, 2004, the Compensation Committee of our Board of Directors approved the acceleration of vesting of all unvested options granted prior to January 1, 2003, to purchase shares of our Class A Special common stock having an exercise price of \$34 or greater and held by current employees. Options with respect to approximately 15.6 million shares of our Class A Special common stock were subject to this acceleration. This acceleration was effective as of December 31, 2004, except for those holders of incentive stock options ("ISOs"), who were given the opportunity to decline the acceleration of an option if such acceleration would have the effect of changing the status of the option for federal income tax purposes from an ISO to a non-qualified stock option. Because these options had exercise prices in excess of current market values (were "underwater") and were not fully achieving their original objectives of incentive compensation and employee retention, the acceleration may have had a positive effect on employee morale, retention and perception of option value. The acceleration also took into account the fact that in December 2004, we completed the repurchase of stock options held by certain non-employees for cash (including underwater options) under a stock option liquidity program (see Note 10), and that no such offer (nor any other "solution" for underwater options) was made to current employees. The effect of the acceleration had no effect on reported net income, an immaterial impact on pro forma net income in the first quarter of 2005 and an approximate \$39 million, net of tax, impact on pro forma net income in the fourth quarter of 2004. The impacts of the acceleration are reflected in the pro forma amounts above. This acceleration eliminates the future compensation expense we would otherwise recognize in our statement of operations with respect to these options once FASB Statement No. 123R, "Share Based Payment," ("SFAS No. 123R") becomes effective in 2006 (see Note 3).

The weighted average fair value at date of grant of a Class A common stock option granted under our option plans during 2005, 2004 and 2003 was \$13.00, \$11.44 and \$9.81, respectively. The fair value of each option granted during 2005, 2004 and 2003 was estimated on the date of grant using the Black-Scholes option pricing model with the following weighted average assumptions:

	2005	2004	2003
	Class A Common Stock	Class A Common Stock	Class A Common Stock
Dividend yield	0%	0%	0%
Expected volatility	27.1%	28.6%	29.3%
Risk free interest rate	4.3%	3.5%	3.2%
Expected option life (in years)	7.0	7.0	5.9
Forfeiture rate	3.0%	3.0%	3.0%

As of December 31, 2005, there was \$208 million of total unrecognized, pre-tax compensation cost related to non-vested stock options under FAS 123. This cost is expected to be recognized over a weighted average period of approximately two years. Upon adoption of SFAS No. 123R, effective January 1, 2006 (see Note 3), such cost will be recognized directly in our consolidated statement of operations.

#### Postretirement and Postemployment Benefits

We charge to operations the estimated costs of retiree benefits and benefits for former or inactive employees, after employment but before retirement, during the years the employees provide services (see Note 9).

#### Income Taxes

We recognize deferred tax assets and liabilities for temporary differences between the financial reporting basis and the tax basis of our assets and liabilities and the expected benefits of utilizing net operating loss carryforwards. The impact on deferred taxes of changes in tax rates and laws, if any, applied to the years during which temporary differences are expected to be settled, are reflected in the consolidated financial statements in the period of enactment (see Note 11).

We account for income tax uncertainties that arise in connection with business combinations and those that are associated with entities acquired in business combinations in accordance with EITF 93-7, "Uncertainties Related to Income Taxes in a Purchase Business Combination." Deferred tax assets and liabilities are recorded at the date of a business combination based on our best estimate of the ultimate tax basis that will be accepted by the various taxing authorities. Liabilities for contingencies associated with prior tax returns filed by the acquired entity are recorded based on our best estimate of the ultimate settlement that will be accepted by the various taxing authorities. Estimated interest expense on these liabilities subsequent to the acquisition is reflected in our consolidated tax provision. We adjust these deferred tax accounts and liabilities periodically to reflect revised estimated tax bases and any estimated settlements with the various taxing authorities. The effect of these adjustments is generally applied to goodwill except for post-acquisition interest expense, which is recognized as an adjustment of the tax expense.

#### Derivative Financial Instruments

We use derivative financial instruments for a number of purposes. We manage our exposure to fluctuations in interest rates by entering into interest rate exchange agreements ("swaps"), interest rate lock agreements ("rate locks"), interest rate cap agreements ("caps") and interest rate collar agreements ("collars"). We manage the cost of our share repurchases through the sale of equity put option contracts ("Comcast put options") and the purchase of capped call option

contracts. We manage our exposure to fluctuations in the value of some of our investments by entering into equity collar agreements ("equity collars") and equity put option agreements ("equity put options"). We are also party to equity warrant agreements ("equity warrants"). We have issued indexed debt instruments ("Exchangeable Notes" and "ZONES") and entered into prepaid forward sale agreements ("prepaid forward sales") whose value, in part, is derived from the market value of certain publicly traded common stock, and we have also sold call options on some of our investments in equity securities. Equity hedges are used to manage exposure to changes in equity prices associated with stock appreciation rights of some of Broadband's previously affiliated companies. These equity hedges are recorded at fair value based on market quotes.

For derivative instruments designated and effective as fair value hedges, such as fixed to variable swaps, changes in the fair value of the derivative instrument are substantially offset in the consolidated statement of operations by changes in the fair value of the hedged item. For derivative instruments designated as cash flow hedges, such as variable to fixed swaps and rate locks, the effective portion of any hedge is reported in other comprehensive income (loss) until it is recognized in earnings during the same period in which the hedged item affects earnings. The ineffective portion of all hedges is recognized in current earnings each period. Changes in the fair value of derivative instruments that are not designated as a hedge are recorded each period in current earnings.

When a derivative instrument designated as a fair value hedge is terminated, sold, exercised or has expired, any gain or loss is deferred and recognized in earnings over the remaining life of the hedged item. When a hedged item is settled or sold, the adjustment in the carrying amount of the hedged item is recognized in earnings. When hedged variable rate debt is settled, the previously deferred effective portion of the hedge is written off similar to debt extinguishment costs.

Equity warrants and equity collars are adjusted to estimated fair value on a current basis with the result included in investment income (loss), net in our consolidated statement of operations.

Derivative instruments embedded in other contracts, such as our Exchangeable Notes, ZONES and prepaid forward sales, are separated into their host and derivative financial instrument components. The derivative component is recorded at its estimated fair value in our consolidated balance sheet with changes in estimated fair value recorded in investment income (loss), net in our consolidated statement of operations.

All derivative transactions must comply with our Board-authorized derivatives policy. We do not hold or issue any derivative financial instruments for speculative or trading purposes and are not a party to leveraged derivative instruments (see Note 8). We manage the credit risks associated with our derivative financial instruments through the evaluation and monitoring of the creditworthiness of the counterparties. Although we may be exposed to losses in the event of nonperformance by the counterparties, we do not expect such losses, if any, to be significant.

We periodically examine those instruments we use to hedge exposure to interest rate and equity price risks to ensure that the instruments are matched with underlying assets or liabilities, reduce our risks relating to interest rates or equity prices and, through market value and sensitivity analysis, maintain a high correlation to the risk inherent in the hedged item. For those instruments that do not meet the above criteria, variations in their fair value are reflected on a current basis in our consolidated statement of operations.

#### **Securities Lending Transactions**

We may enter into securities lending transactions pursuant to which we require the borrower to provide cash collateral equal to the value of the loaned securities, as adjusted for any changes in the value of the underlying loaned securities. Loaned securities for which we maintain effective control are included in investments in our consolidated balance sheet.

#### **Reclassifications**

Reclassifications have been made to the prior years' consolidated financial statements to conform to those classifications used in 2005.

### **3. Recent Accounting Pronouncements**

#### **SFAS No. 123R**

In December 2004, the FASB issued SFAS No. 123R, which replaces SFAS No. 123 and supersedes APB No. 25. In March 2005, the SEC issued Staff Accounting Bulletin No. 107 ("SAB 107") regarding the SEC's interpretation of SFAS No. 123R and the valuation of share-based payments for public companies. SFAS No. 123R requires all share-based payments to employees, including grants of employee stock options, to be recognized in the financial statements based on their fair values at grant date or later modification. In addition, SFAS No. 123R will cause unrecognized cost (based on the amounts in our pro forma footnote disclosure) related to options vesting after the date of initial adoption to be recognized as a charge to results of operations over the remaining requisite service period.

We will adopt SFAS No. 123R on January 1, 2006, using the Modified Prospective Approach ("MPA"). The MPA requires that compensation expense be recorded for restricted stock and all unvested stock options as of January 1, 2006. We expect to continue using the Black-Scholes valuation model in determining the fair value of share-based payments to employees. For pro forma footnote disclosure purposes, we recognized the majority of our share-based compensation costs using the accelerated recognition method as permitted by SFAS No. 123. Upon adoption we will continue to recognize the cost of previously granted share-based awards under the accelerated recognition method and we anticipate that we will recognize the cost for new share-based awards on a straight-line basis over the requisite service period.

SFAS No. 123R will also require us to change the classification of any tax benefits realized upon exercise of stock options in excess of that which is associated with the expense recognized for financial reporting purposes. These amounts will be presented as a financing cash inflow rather than as a reduction of income taxes paid in our consolidated statement of cash flows.

We are continuing to evaluate the requirements of SFAS No. 123R and SAB 107 and currently expect that the adoption of SFAS No. 123R will result in an increase in compensation expense in 2006 of approximately \$135 million, including the estimated impact of 2006 share-based awards.

#### **SFAS No. 153**

In December 2004, the FASB issued SFAS No. 153, "Exchanges of Nonmonetary Assets—an amendment of APB Opinion No. 29" ("SFAS No. 153"). The guidance in APB Opinion No. 29, "Accounting for Nonmonetary Transactions" ("APB No. 29"), is based on the principle that exchanges of nonmonetary assets should be measured based on the fair value of the assets exchanged. The guidance in APB No. 29, however, included certain exceptions to that principle. SFAS No. 153 amends APB No. 29 to eliminate the exception for nonmonetary exchanges of similar productive assets and replaces it with a general exception for exchanges of nonmonetary assets that do not have commercial substance. SFAS No. 153 is effective for such exchange transactions occurring in fiscal periods beginning after June 15, 2005. We expect that our cable system exchanges will continue to be recognized at fair value under this guidance.

Earnings (loss) per common share ("EPS") is computed by dividing net income (loss) for common stockholders by the weighted average number of common shares outstanding during the period on a basic and diluted basis.

Our potentially dilutive securities include potential common shares related to our stock options and restricted stock. Diluted earnings for common stockholders per common share ("Diluted EPS") considers the impact of potentially dilutive securities except in periods in which there is a loss because the inclusion of the potential common shares would have an antidilutive effect. Diluted EPS excludes the impact of potential common shares related to our stock options in periods in which the option exercise price is greater than the average market price of our Class A common stock and our Class A Special common stock during the period. Diluted EPS excludes the impact of potential common shares related to our Class A Special common stock held in treasury because it was our intent to settle the related Comcast exchangeable notes using cash in 2004 and the remaining amounts were settled for cash in 2005 (see Note 8).

Diluted EPS for 2005 and 2004 excludes approximately 84 million and 103 million, respectively, of potential common shares related to our stock compensation plans because the option exercise price was greater than the average market price of our Class A common stock and our Class A Special common stock for the period.

Diluted EPS for 2003 excludes approximately 146 million potential common shares, primarily related to our stock compensation plans, because the assumed issuance of such potential common shares is antidilutive in periods in which there is a loss from continuing operations.

The following table reconciles the numerator and denominator of the computations of Diluted EPS for common stockholders from continuing operations for the years presented:

Year Ended December 31	2005			2004			2003		
(Dollars in millions, except per share data)	Income	Shares	Per Share Amount	Income	Shares	Per Share Amount	Income	Shares	Per Share Amount
Basic EPS for common stockholders	\$928	2,197	\$0.42	\$970	2,240	\$0.43	\$970	2,250	\$0.43
Effect of Dilutive Securities									
Assumed exercise or issuance of shares relating to stock compensation plans								10	
Diluted EPS	\$928	2,209	\$0.42	\$970	2,250	\$0.43	\$970	2,266	\$0.43

SFAS No. 154  
 In May 2005, the FASB issued SFAS No. 154, "Accounting Changes and Error Corrections—a replacement of APB Opinion No. 20 and FASB Statement No. 3" ("SFAS No. 154"). SFAS No. 154 replaces APB Opinion No. 20, "Accounting Changes," and FASB Statement No. 3, "Reporting Accounting Changes in Interim Financial Statements," and changes the requirements for the accounting for and reporting of a change in accounting principle. SFAS No. 154 applies to all voluntary changes in accounting principles. It also applies to changes required by an accounting pronouncement in the unusual instance that the pronouncement does not include specific transition provisions. When a pronouncement includes specific transition provisions, those provisions should be followed. SFAS No. 154 is effective for accounting changes and error corrections occurring in fiscal years beginning after December 15, 2005.

**SFAS 115-1**

In November 2005, the FASB issued FASB Staff Position FAS 115-1 and FAS 124-1, "The Meaning of Other-Than-Temporary Impairment and Its Application to Certain Investments" ("FSP 115-1"), which provides guidance on determining when investments in certain debt and equity securities are considered impaired, whether that impairment is other-than-temporary, and on measuring such impairment loss. FSP 115-1 also includes accounting considerations subsequent to the recognition of an other-than-temporary impairment and requires certain disclosures about unrealized losses that have not been recognized as other-than-temporary impairments. FSP 115-1 is required to be applied to reporting periods beginning after December 15, 2005. We do not expect the adoption of FSP 115-1 will have a material impact on our consolidated financial condition or results of operations.



## 5. Acquisitions and Other Significant Events

**2005 Activity****Motorola**

In March 2005, we entered into two joint ventures with Motorola under which we are developing and licensing next-generation programming access security (known as "conditional access") technology for cable systems and related products. One of the ventures will license such products to equipment manufacturers and other cable companies. The other venture will provide us greater participation in the design and development of conditional access technology for our cable systems. In addition to funding approximately 50% of the annual cost requirements, we have paid \$20 million to Motorola and committed to pay up to \$80 million over a four-year period to Motorola based on the achievement of certain milestones. Motorola contributed licenses to conditional access and related technology to the ventures.

These two ventures are both considered variable interest entities under FIN 46, and we have consolidated both of these ventures since we are the primary beneficiary. Accordingly, we have recorded approximately \$190 million in intangible assets, of which we recorded a charge of approximately \$20 million related to in-process research and development in the first quarter of 2005 that has been included in amortization expense.

**Adelphia and Time Warner Proposed Transactions**

In April 2005 we entered into agreements with Time Warner to: (i) jointly acquire substantially all the assets of Adelphia Communications Corporation; (ii) redeem our interest in Time Warner Cable and its subsidiary, Time Warner Entertainment; and (iii) exchange certain cable systems with Time Warner Cable. As a result of these transactions, on a net basis, our cash investment is expected to be \$1.5 billion and we expect to gain approximately 1.7 million video subscribers in complementary geographic areas (including South Florida, New England, MidAtlantic and Minnesota). The cable systems we expect to transfer to Time Warner in the exchange are located in Los Angeles, Cleveland and Dallas.

These transactions are subject to customary regulatory review and approvals, as well as approval by the court in the Adelphia Chapter 11 bankruptcy case. Closing of the transactions is expected during the first half of 2006.

In addition to entering into the agreements described above, we amended certain pre-existing agreements with Time Warner relating to the disposition and redemption of certain of our interests in TWC and TWE in the event these transactions do not close.

**MGM**

In April 2005, we completed a transaction with a group of investors to acquire Metro-Goldwyn-Mayer Inc. We acquired our 20% interest for approximately \$250 million in cash. We are accounting for this investment under the equity method of accounting.

**2004 Activity****Gemstar**

In March 2004, we entered into a long term, non-exclusive patent license and distribution agreement with Gemstar-TV Guide International in exchange for a one-time payment of \$250 million to Gemstar. This agreement allows us to utilize Gemstar's intellectual property and technology and the TV Guide brand and content on our interactive program guides. We have allocated the \$250 million amount paid based on the fair value of the components of the contract to various intangible and other assets, which are being amortized over a period of 3 to 12 years. In addition, we and Gemstar formed an entity to develop and enhance interactive programming guides.

**TechTV**

In May 2004, we completed the acquisition of TechTV Inc. by acquiring all outstanding common and preferred stock of TechTV from Vulcan Programming Inc. for approximately \$300 million in cash. Substantially all of the purchase price has been recorded to intangible assets and is being amortized over a period of 2 to 22 years. On May 28, 2004, G4 and TechTV began operating as one network. The effects of our acquisition of TechTV have been reflected in our consolidated statement of operations from the date of the transaction. We have classified G4 as part of our Content segment.

**Liberty Exchange Agreement**

In July 2004, we exchanged approximately 120 million shares of Liberty Media Corporation ("Liberty") Series A common stock that we held (see Note 6), valued at approximately \$1.022 billion based upon the price of Liberty common stock on the closing date of the transaction, with Liberty for 100% of the stock of Liberty's subsidiary, Encore ICCP, Inc. Encore's assets consisted of cash of approximately \$547 million, a 10.4% interest in E! and 100% of International Channel Networks (which operates AZN Television). We also received all of Liberty's rights, benefits and obligations under the TCI Music contribution agreement, which resulted in the resolution of all pending litigation between Liberty and us regarding the contribution agreement. The Liberty exchange increased our portfolio of programming investments because we now own 60.5% of E! and 100% of International Channel Networks. The exchange was structured as a tax free transaction. We allocated the value of the shares exchanged in the transaction among cash, our additional investment in E!

International Channel Networks and the resolution of the litigation related to the contribution agreement. The effects of our acquisition of the additional interest in E! and our acquisition of International Channel Networks have been reflected in our consolidated statement of operations from the date of the transaction.

#### 2003 Activity

##### Comcast SportsNet Chicago

In December 2003, we, in conjunction with affiliates of the Chicago Blackhawks, Bulls, Cubs and White Sox professional sports teams, formed CSN Chicago, a 24-hour regional sports network. We acquired our controlling interest in this network for approximately \$87 million in cash, which was allocated to contract-related intangibles, and is being amortized over a period of 15 years. The results of CSN Chicago have been included in our consolidated financial statements since the date of formation.

##### The Golf Channel

In December 2003, we acquired the approximate 8.6% interest in TGC previously held by the Tribune Company for \$100 million in cash. This amount has been allocated to cable and satellite television distribution rights, which is being amortized over a period of approximately eight years, and to goodwill. As a result, we now own 99.9% of TGC.

##### Bresnan Transaction

In March 2003, we completed a transaction with Bresnan Broadband Holdings, LLC and Bresnan Communications, LLC (together, "Bresnan") pursuant to which we transferred cable systems serving approximately 314,000 subscribers in Montana, Wyoming, Colorado and Utah to Bresnan that we had acquired in connection with the Broadband acquisition. We received \$525 million in cash, plus preferred and common equity interests in Bresnan, in exchange for these cable systems. The transfer of these cable systems was accounted for at fair value with no gain or loss recognized. The results of operations for these cable systems for the first quarter of 2003 were not significant and were included in equity in net losses of affiliates in our consolidated statement of operations.

##### TWE Restructuring

At the closing of the Broadband acquisition in 2002, as part of the process of obtaining approval of the Broadband acquisition from the Federal Communications Commission ("FCC"), we were required to place our interest in TWE (which we acquired at that time), in trust for orderly disposition. TWE owned content assets and cable systems.

In March 2003, we restructured our direct and indirect investment in TWE. As a result, Time Warner assumed complete control over TWE's content assets and all of Time Warner's interests in cable systems became owned by TWC. As part of the restructuring, we received voting preferred stock of Time Warner (which was converted in March 2005 into 83,835,883 shares of Time Warner common stock (see Note 6)), and we retained a 17.9% interest in TWC and a 4.7% interest in TWE. In addition, prior to the restructuring, we received a \$2.1 billion dividend from TWC that was used immediately to repay amounts outstanding under our credit facilities. The shares of Time Warner preferred stock received in the TWE restructuring were required to be placed in, and our retained interest in TWC and TWE remained subject to, the trust. The TWE restructuring was accounted for as a fair value exchange.

Under the trust, an independent trustee has exclusive authority to exercise any management or governance rights associated with the securities in trust. The trustee also has the obligation, subject to our rights as described in the last sentence of this paragraph, to exercise available registration rights to effect the sale of such interests in a manner intended to maximize the value received consistent with the goal of disposing such securities in their entirety by November 2007. Following this time, if any securities remain in trust, the trustee will be obligated to dispose of them as quickly as possible, and in any event by May 2008. The trustee is also obligated, through November 2007, to effect various specified types of sale or monetization transactions with respect to the securities as may be proposed by us from time to time.

**Sale of QVC**

In September 2003, we completed the sale to Liberty of all shares of QVC common stock held by a number of our direct wholly-owned subsidiaries for an aggregate value of approximately \$7.7 billion, consisting of \$4 billion principal amount of Liberty's Floating Rate Senior Notes due 2006 (the "Liberty Notes"), \$1.35 billion in cash and approximately 218 million shares of Liberty Series A common stock. The shares had a fair value on the closing date of \$10.73 per share. As a condition of closing, some equity awards were required to be settled. The cost of settling the awards was included in the costs of the transaction. The consideration received, net of transaction costs, over our carrying value of the net assets of QVC resulted in a gain of approximately \$3.290 billion, net of approximately \$2.865 billion of related income taxes.

The results of operations of QVC prior to its disposition are included within income from discontinued operations, net of tax as follows:

Year Ended December 31 (Dollars in millions)	2003
Revenues	\$2,915
Income before income taxes and minority interest	\$ 496
Income tax expense	\$ 184

For financial reporting purposes, the QVC transaction is presented as having occurred on September 1, 2003. As such, the 2003 period includes QVC operations through August 31, 2003, as reported to us by QVC.

Pro forma information reflecting our 2005, 2004 and 2003 transactions is not presented due to immateriality.

**Investments**

December 31 (Dollars in millions)	2005	2004
Fair value method		
Cablevision	\$ 120	\$ 362
Discovery Holding Company	152	-
Liberty Media Corporation	787	1,098
Liberty Global	336	366
Microsoft	-	626
Sprint Nextel	614	656
Time Warner	994	-
Vodafone	54	540
Other	90	24
	3,147	3,672
Equity method, principally cable related	2,830	2,460
Cost method, principally TWC and Airtouch in 2005 and TWC, Time Warner and Airtouch in 2004	6,263	8,235
Total investments	12,230	14,367
Less: current investments	146	1,555
<b>Non current investments</b>	<b>\$12,082</b>	<b>\$12,812</b>

**Fair Value Method**

We hold unrestricted equity investments, which we account for as available for sale or trading securities, in publicly traded companies. Our investments in Discovery Holding Company ("Discovery" - see below), Liberty, Liberty Global, Inc., Microsoft, Sprint Nextel and Vodafone, and approximately 44% of our investment in Cablevision, are or were accounted for as trading securities. The net unrealized pre-tax gains on investments accounted for as available for sale securities as of December 31, 2005 and 2004, of \$56 million and \$26 million, respectively, have been reported in our consolidated balance sheet principally as a component of accumulated other comprehensive loss, net of related deferred income taxes of \$19 million and \$9 million, respectively.

The cost, fair value and unrealized gains and losses related to our available for sale securities are as follows:

December 31 (Dollars in millions)	2005	2004
Cost	\$1,104	\$65
Unrealized gains	62	26
Unrealized losses	(6)	-
<b>Fair value</b>	<b>\$1,160</b>	<b>\$91</b>

Proceeds from the sales of available for sale securities for the years ended December 31, 2005, 2004 and 2003 were \$490 million, \$57 million and \$1.222 billion, respectively. Gross realized gains on these sales for the years ended December 31, 2005, 2004 and 2003 were \$18 million, \$10 million and \$27 million, respectively.

As of December 31, 2004, we also held a series of option agreements (the "Microsoft Collars" and "Vodafone Collars") with a single bank counterparty that limited our exposure to and benefits from price fluctuations in the Microsoft common stock and Vodafone ADRs. Certain Microsoft Collars and Vodafone Collars were recorded in investments at fair value, with unrealized gains or losses being recorded to investment income (loss), net. These unrealized gains or losses are or were substantially offset by the changes in the fair value of shares of Microsoft common stock and Vodafone ADRs.

During 2005 and 2004, we settled our obligations relating to all of our Cablevision and Microsoft exchangeable notes and certain of our Vodafone exchangeable notes (see Note 8) by delivering Cablevision shares, Microsoft shares and Vodafone ADRs to the counterparties, and the equity collar agreements related to the underlying securities were exercised (including all of those classified within investments described above).

In February 2005, we entered into a 10 year prepaid forward sale of approximately 2.7 million shares of Liberty Global Series A common stock for proceeds of \$99 million.

In June 2005, we, through a majority owned partnership, entered into a seven year, seven month prepaid forward sale of approximately 5.1 million shares of Cablevision Class A Common Stock for proceeds of \$114 million. We have designated the derivative component of the prepaid forward as a fair value hedge of the related Cablevision shares. Accordingly, the mark to market adjustment on the 56% of the Cablevision shares held by us and classified as available for sale securities will be recorded to investment income (loss), net over the term of the prepaid forward.

In July 2005, we received 10 million shares of Discovery Series A common stock in connection with the spin-off by Liberty of Discovery. We have classified all of the shares of Discovery Series A common stock that we received as trading securities recorded at fair value. All of these shares collateralize a portion of the 10 year prepaid forward sale of Liberty common stock that we entered into in December 2003 (see below).

In September 2005, we received approximately 7.7 million shares of Liberty Global Series C common stock in connection with Liberty Global's special stock dividend. We have classified all of the shares of

Liberty Global Series C common stock that we received as trading securities recorded at fair value. As of December 31, 2005, all of these shares collateralize a portion of the 10 year prepaid forward sale of Liberty common stock that we entered into in December 2003 (see below) and the seven year, seven month prepaid forward sale of Liberty Global Series A common stock that we entered into in February 2005 (see above).

In June 2004, we received approximately 11 million shares of Liberty Global Series A common stock in connection with its spin-off by Liberty. In the spin-off, each share of Liberty Series A common stock received 0.05 shares of the new Liberty Global Series A common stock. Approximately 5 million of these shares collateralize a portion of the 10 year prepaid forward sale of Liberty Series A common stock that we entered into in December 2003 (see below). In December 2004, we sold 3 million shares of Liberty Global Series A common stock to Liberty in a private transaction for proceeds of \$128 million.

During 2003, we sold all \$4.0 billion principal amount of the Liberty Notes that we received in the sale of QVC for net proceeds of approximately \$4.0 billion. In December 2003, we entered into a 10 year prepaid forward sale of 100 million shares of Liberty Series A common stock and received \$894 million in cash. At maturity, the counterparty is entitled to receive Liberty, Liberty Global and Discovery Series A common stock, or an equivalent amount of cash at our option, based upon the market value of the underlying securities.

As of December 31, 2005 and 2004, approximately \$1.496 billion and \$2.681 billion, respectively, of our fair value method securities support our obligations under our exchangeable notes or prepaid forward contracts.

#### Equity Method

Our recorded investments exceed our proportionate interests in the book value of the investees' net assets by \$1.726 billion and \$1.469 billion as of December 31, 2005 and 2004, respectively (principally related to our investments in Texas and Kansas City Cable Partners, L.P. (50% interest), Insight Midwest (50% interest), Susquehanna Communications (30% interest) and MGM (20% interest)). A portion of this basis difference has been attributed to franchise related customer relationships of some of the investees. This difference is amortized to equity in net income or loss of affiliates over a period of four years. As a result of the adoption of SFAS No. 142, we do not amortize the portion of the basis difference attributable to goodwill but will continue to test such excess for impairment in accordance with APB Opinion 18, "The Equity Method of Accounting for Investments in Common Stock."

During 2004, we sold our 20% interest in DHC Ventures, LLC ("Discovery Health Channel") to Discovery Communications, Inc. for approximately \$149 million in cash and recognized a gain on the sale of approximately \$94 million to other income.

#### Cost Method

As a result of the TWE restructuring, we retained a 21% economic stake in TWC. This investment is accounted for under the cost method because we do not have the ability to exercise significant influence over the operating and financial policies of TWC (see Note 5).

We hold two series of preferred stock of AirTouch Communications, Inc. ("AirTouch"), a subsidiary of Vodafone, that are recorded at \$1.437 billion and \$1.423 billion as of December 31, 2005 and 2004, respectively. The dividend and redemption activity of the AirTouch preferred stock is tied to the dividend and redemption payments associated with substantially all of the preferred shares issued by one of our consolidated subsidiaries, which is a VIE. The subsidiary has three series of preferred stock outstanding with an aggregate redemption value of \$1.750 billion. Substantially all of the preferred shares are redeemable in April 2020 at a redemption value of \$1.650 billion, with one of the series bearing a 9.08% dividend rate. The two redeemable series of subsidiary preferred shares are recorded at \$1.437 billion and \$1.428 billion, and such amounts are included in other noncurrent liabilities as of December 31, 2005 and 2004, respectively. The non-redeemable series of subsidiary preferred shares is recorded at \$100 million as of both December 31, 2005 and 2004, and such amounts are included in minority interest.

#### 7. Goodwill and Intangible Assets

The changes in the carrying amount of goodwill by business segment (see Note 14) for the periods presented are as follows:

(Dollars in millions)	Cable	Content	Corporate and Other	Total
Balance, December 31, 2003	\$13,891	\$774	\$176	\$14,841
Purchase price allocation adjustments	(964)	-	4	(960)
Acquisitions	71	50	18	139
Balance, December 31, 2004	12,998	824	198	14,020
Purchase price allocation adjustments	(50)	89	-	39
Acquisitions	45	53	61	159
<b>Balance, December 31, 2005</b>	<b>\$12,993</b>	<b>\$966</b>	<b>\$259</b>	<b>\$14,218</b>

During 2004, the decrease to goodwill relates to the settlement or adjustment of various liabilities associated with the Broadband acquisition.

In connection with the Broadband acquisition, we acquired an indirect interest in CC VIII, LLC, a cable joint venture with Charter Communications, Inc. In April 2002, AT&T exercised its rights to cause Paul G. Allen, Charter's Chairman, or his designee to purchase this indirect interest. In June 2003, Paul Allen purchased our interest in CC VIII for \$728 million in cash. We accounted for the sale of our interest in CC VIII at fair value with no gain or loss recognized.

#### Investment Income (Loss), Net

Investment income (loss), net includes the following:

Year ended December 31 (Dollars in millions)	2005	2004	2003
Interest and dividend income	\$ 112	\$ 160	\$ 166
Gains on sales and exchanges of investments, net	17	45	28
Investment impairment losses	(3)	(16)	(72)
Unrealized gains (losses) on trading securities and hedged items	(259)	378	965
Mark to market adjustments on derivatives related to trading securities and hedged items	206	(120)	(818)
Mark to market adjustments on derivatives	16	25	(353)
<b>Investment income (loss), net</b>	<b>\$ 89</b>	<b>\$ 472</b>	<b>\$ (84)</b>

The gross carrying amount and accumulated amortization of our intangible assets subject to amortization are as follows:

December 31 (Dollars in millions)	2005		2004	
	Gross Carrying Amount	Accumulated Amortization	Gross Carrying Amount	Accumulated Amortization
Franchise related customer relationships	\$3,414	\$(2,809)	\$3,408	\$(2,030)
Cable and satellite television distribution rights	1,333	(885)	1,388	(530)
Cable franchise renewal costs and contractual operating rights	899	(228)	882	(188)
Computer software	877	(257)	540	(110)
Patents and other technology rights	214	(36)	105	(11)
Programming costs and rights	772	(520)	560	(371)
Other agreements and rights	427	(243)	420	(212)
	<b>\$7,936</b>	<b>\$(4,776)</b>	<b>\$7,303</b>	<b>\$(3,452)</b>

Estimated amortization expense for each of the next five years is as follows:

(Dollars in millions)	
2006	\$960
2007	648
2008	408
2009	341
2010	270

#### 8. Long Term Debt

December 31 (Dollars in millions)	Weighted Average Interest Rate at December 31, 2005	2005	2004
Exchangeable notes, due 2005-2007	4.90%	\$ 46	\$ 1,699
Commercial paper	4.45%	549	320
Senior notes, due 2005-2097	7.18%	20,893	19,781
Senior subordinated notes, due 2006-2012	10.58%	349	363
ZONES due 2029	2.00%	752	708
Debt supporting Trust Preferred Securities, due 2027	9.65%	284	285
Other, including capital lease obligations	-	398	436
		<b>23,371</b>	<b>23,592</b>
Less: current portion		<b>1,689</b>	<b>3,499</b>
<b>Long term debt</b>		<b>\$21,682</b>	<b>\$20,093</b>

As of December 31, 2005, maturities of long term debt outstanding were as follows:

(Dollars in millions)	
2006	\$ 1,689
2007	779
2008	1,476
2009	1,002
2010	1,700
Thereafter	16,725

#### Guarantee Structures

Comcast Corporation (our parent corporation) and a number of our wholly-owned subsidiaries that hold substantially all of our cable assets have unconditionally guaranteed each other's debt securities and indebtedness for borrowed money, including amounts outstanding under the \$5.0 billion new credit facility. As of December 31, 2005, \$21.662 billion of our debt was included in this cross-guarantee structure.

Comcast Holdings Corporation ("Comcast Holdings"), our wholly-owned subsidiary, is not part of the cross-guarantee structure. In September 2005, Comcast Corporation unconditionally guaranteed Comcast Holdings' ZONES due October 2029 and its 10% Senior Subordinated Debentures due 2012, which totaled \$716 million as of December 31, 2005. The Comcast Holdings guarantee is subordinate to the guarantees under the cross-guarantee structure.

#### Senior Notes Offerings

In June 2005, we issued \$1.5 billion of senior notes consisting of \$750 million of 4.95% notes due 2016 and \$750 million of 5.65% senior notes due 2035. We used the net proceeds of this offering for working capital and general corporate purposes, including repayment of existing indebtedness.

In November 2005, we issued \$2.25 billion of senior notes consisting of \$500 million of 5.45% notes due 2010, \$750 million of 5.85% notes due 2015 and \$1.0 billion of 6.50% notes due 2035. We used the net proceeds of this offering for working capital and general corporate purposes, including repayment of commercial paper obligations.

#### Commercial Paper

In June 2004, we entered into a commercial paper program to provide a lower cost borrowing source of liquidity to fund our short-term working capital requirements. The program allows for a maximum of \$2.25 billion of commercial paper to be issued at any one time. Our revolving bank credit facility supports this program. Amounts outstanding under the program are classified as long term in our consolidated balance sheet because we have both the ability and the intent to refinance these obligations, if necessary, on a long term basis with amounts available under our revolving bank credit facility.

#### Revolving Bank Credit Facility

In October 2005, we refinanced our existing \$4.5 billion revolving credit facility that we entered into in January 2004, by entering into a new, 5-year, \$5.0 billion revolving credit facility (the "new credit facility") with a syndicate of banks. The new credit facility provides additional flexibility under our financial covenants and expires in October 2010. The Base Rate, chosen at our option, is either London Interbank Offered Rate ("LIBOR") or the greater of the prime rate or the Federal Funds rate plus 0.5%. The borrowing margin at December 31, 2005, is based on our senior unsecured debt ratings. The interest rate for borrowings under this revolver is LIBOR plus 0.35% based on our current credit ratings. The terms of the 2005 facility were substantially the same as the 2004 facility.

#### Lines and Letters of Credit

As of December 31, 2005, we and certain of our subsidiaries had unused lines of credit totaling \$4.105 billion under these respective credit facilities.

As of December 31, 2005, we and certain of our subsidiaries had unused irrevocable standby letters of credit totaling \$385 million to cover potential fundings under various agreements.

#### Redemption of Senior Notes

In August 2005, we redeemed our 9.5% Senior Notes due 2013 with an aggregate principal amount of \$525 million at a premium of 4.75% over par and recorded a \$46 million gain on the early termination as a

reduction to interest expense. This repayment was financed with borrowings under our commercial paper program and available cash.

#### Notes Exchangeable into Common Stock

We have or had outstanding exchangeable notes (the "Exchangeable Notes") that are mandatorily redeemable at our option into shares of: Cablevision Class A common stock or its cash equivalent; Microsoft common stock or its cash equivalent; Vodafone ADRs, the cash equivalent, or a combination of cash and Vodafone ADRs; and our Class A Special common stock or its cash equivalent. The maturity value of the Exchangeable Notes varies based upon the fair market value of the security to which it is indexed. Our Exchangeable Notes are collateralized by our investments in Cablevision, Microsoft and Vodafone, respectively, and the Comcast Class A Special common stock held in treasury (see Note 6).

During 2005, 2004 and 2003, we settled an aggregate of \$1.380 billion, \$2.359 billion and \$1.213 billion face amount, respectively, of our obligations relating to our Exchangeable Notes by delivering the underlying Cablevision and Microsoft shares and Vodafone ADRs to the counterparties upon maturity of the instruments, and the equity collar agreements related to the underlying securities were exercised. These transactions represented non-cash investing and financing activities and had no effect on our statement of cash flows due to their non-cash nature.

During 2005 and 2004, we settled an aggregate of \$329 million and \$847 million face amount, respectively, of notes exchangeable into Comcast common stock prior to their scheduled maturity dates by paying \$253 million and \$609 million, respectively, in cash and the settlement of the related equity collar agreements. Interest expense for 2004 includes \$31 million, related to the early redemption of these obligations.

#### ZONES

At maturity, holders of our 2.0% Exchangeable Subordinated Debentures due 2029 (the "ZONES") are entitled to receive in cash an amount equal to the higher of the principal amount of the ZONES of \$1.807 billion or the market value of 24,124,398 shares of Sprint Nextel common stock. Prior to maturity, each ZONES is exchangeable at the holder's option for an amount of cash equal to 95% of the market value of one share of Sprint Nextel common stock.

We separated the accounting for the Exchangeable Notes and the ZONES into derivative and debt components. We record the change in the fair value of the derivative component of the Exchangeable Notes and the ZONES (see Note 6) and the change in the carrying value of the debt component of the Exchangeable Notes and the ZONES as follows:

Year ended December 31, 2005 (Dollars in millions)	Exchangeable Notes	ZONES
Balance at Beginning of Year:		
Debt component	\$ 1,758	\$540
Derivative component	(59)	168
Total	1,699	708
Decrease in debt component due to maturities and redemptions	1,708	-
Change in debt component to interest expense	(1)	28
Change in derivative component due to settlements	55	-
Change in derivative component to investment income (loss), net	1	16
Balance at End of Year:		
Debt component	49	568
Derivative component	(3)	184
Total	\$ 46	\$752

The following table summarizes the terms of our existing swaps:

(Dollars in millions)	Notional Amount	Maturities	Average Pay Rate	Average Receive Rate	Estimated Fair Value
As of December 31, 2005					
Fixed to Variable Swaps	\$3,600	2006-2014	6.5%	6.0%	\$37
As of December 31, 2004					
Variable to Fixed Swaps	\$ 488	2005	7.6%	3.0%	\$ 8
Fixed to Variable Swaps	\$3,900	2006-2027	4.6%	6.3%	\$ 9

The notional amounts of interest rate instruments, as presented in the above table, are used to measure interest to be paid or received and do not represent the amount of exposure to credit loss. The estimated fair value approximates the proceeds or payments to settle the outstanding contracts. Swaps and rate locks represent an integral part of our interest rate risk management program. During 2005 and 2004, we decreased our interest expense by approximately \$16 million and \$66 million, respectively, through our interest rate risk management program. Our interest rate derivative financial instruments did not have a significant effect on interest expense for the year ended December 31, 2003.

#### Interest Rates

Excluding the derivative component of the Exchangeable Notes and the ZONES whose changes in fair value are recorded to investment income (loss), net, our effective weighted average interest rate on our total debt outstanding was 7.32% and 7.38% as of December 31, 2005 and 2004, respectively. As of December 31, 2005 and 2004, accrued interest was \$422 million and \$444 million, respectively.

#### Interest Rate Risk Management

We are exposed to the market risk of adverse changes in interest rates. To manage the volatility relating to these exposures, our policy is to maintain a mix of fixed and variable rate debt and to enter into various interest rate derivative transactions as described below.

Using swaps, we agree to exchange, at specified intervals, the difference between fixed and variable interest amounts calculated by reference to an agreed-upon notional principal amount. Rate locks are sometimes used to hedge the risk that the cash flows related to the interest payments on an anticipated issuance or assumption of fixed rate debt may be adversely affected by interest rate fluctuations.

We have entered into rate locks to hedge the risk that the cash flows related to the interest payments on an anticipated issuance or assumption of fixed rate debt may be adversely affected by interest-rate fluctuations. Upon the issuance or assumption of fixed rate debt, the value of the rate locks is being recognized as an adjustment to interest expense, similar to a deferred financing cost, over the same period in which the related interest costs on the debt are recognized in earnings (approximately 12 years remaining). The unrealized pre-tax losses on cash flow hedges as of December 31, 2005 and 2004, of \$203 million and \$196 million, respectively, have been reported in our balance sheet as a component of accumulated other comprehensive loss, net of related deferred income taxes of \$71 million and \$69 million, respectively.



**Estimated Fair Value**

Our debt had estimated fair values of \$25.305 billion and \$26.459 billion as of December 31, 2005 and 2004, respectively. The estimated fair value of our publicly traded debt is based on quoted market prices for that debt. Interest rates that are currently available to us for issuance of debt with similar terms and remaining maturities are used to estimate fair value for debt issues for which quoted market prices are not available.

**Debt Covenants**

Some of our and our subsidiaries' loan agreements require that we maintain financial ratios based on debt, interest and operating income before depreciation and amortization, as defined in the agreements. We were in compliance with all financial covenants for all periods presented.

**9. Pension, Postretirement and Other Employee Benefit Plans**

We sponsor two former Broadband pension plans that together provide benefits to substantially all former Broadband employees. Future benefits for both plans have been frozen, except for some union groups and some change-in-control payments.

Our postretirement medical benefits cover substantially all of our employees who meet certain age and service requirements. The majority of eligible employees participate in the Comcast Post-Retirement Healthcare Stipend Program (the "Stipend Plan"), and a small number of eligible employees participate in legacy plans of acquired companies. The Stipend Plan provides an annual stipend for reimbursement of healthcare costs to each eligible employee based on years of service. Based on the benefit design of the Stipend Plan, we are not exposed to the cost of increasing healthcare, since the amounts under the Stipend Plan are fixed at a predetermined amount.

The following table provides condensed information relating to our pension benefits and postretirement benefits for the periods presented:

Year Ended December 31 (Dollars in millions)	2005		2004	
	Pension Benefits	Postretirement Benefits	Pension Benefits	Postretirement Benefits
Net periodic benefit cost	\$ 8	\$ 25	\$ 9	\$ 23
Benefit obligation	\$194	\$ 247	\$189	\$ 207
Fair value of plan assets	\$ 98	\$ -	\$ 72	\$ -
Plan funded status and recorded benefit obligation	\$(96)	\$(235)	\$(117)	\$(215)
Discount rate	5.50%	5.75%	5.75%	6.00%
Expected return on plan assets	7.00%	N/A	7.00%	N/A

We sponsor various retirement investment plans that allow eligible employees to contribute a portion of their compensation through payroll deductions in accordance with specified guidelines. We match a percentage of the employees' contributions up to certain limits. Expenses related to these plans amounted to \$115 million, \$100 million and \$85 million for the years ended December 31, 2005, 2004 and 2003, respectively.

We also maintain unfunded, non-qualified deferred compensation plans, which were created for key executives, other members of management and non-employee directors (each a "Participant"). The

amount of compensation deferred by each Participant is based on Participant elections. Account balances of Participants are credited with income based generally on a fixed annual rate of interest. Participants will be eligible to receive distributions of the amounts credited to their account balance based on elected deferral periods that are consistent with the plans and applicable tax law. Interest expense recognized under the plans totaled \$40 million, \$33 million and \$22 million for the years ended December 31, 2005, 2004 and 2003, respectively. The unfunded obligation of the plans total \$469 million and \$396 million as of December 31, 2005 and 2004, respectively.

## 10. Stockholders' Equity

### Preferred Stock

We are authorized to issue, in one or more series, up to a maximum of 20 million shares of preferred stock. We can issue the shares with such designations, preferences, qualifications, privileges, limitations, restrictions, options, conversion rights and other special or related rights as our board of directors shall from time to time fix by resolution.

### Common Stock

Our Class A Special common stock is generally nonvoting. Holders of our Class A common stock in the aggregate hold 66% of the aggregate voting power of our common stock. The number of votes that each share of our Class A common stock will have at any given time will depend on the number of shares of Class A common stock and Class B common stock then outstanding. Each share of our Class B common stock is entitled to 15 votes, and all shares of our Class B common stock in the aggregate have 33% of the voting power of all of our common stock. The 33% aggregate voting power of our

Class B common stock will not be diluted by additional issuances of any other class of our common stock. Our Class B common stock is convertible, share for share, into Class A or Class A Special common stock, subject to certain restrictions.

### Board-Authorized Share Repurchase Program

During 2005 and 2004, we repurchased approximately 79.1 million and 46.9 million shares, respectively, of our Class A Special common stock for aggregate consideration of \$2.290 billion and \$1.328 billion, respectively, pursuant to our Board-authorized share repurchase program.

In January 2006, our Board authorized the repurchase of an additional \$5 billion of Class A or Class A Special common stock under our share repurchase program. The maximum dollar value of shares that may be repurchased under the program is approximately \$5.356 billion after the January 2006 authorization. We expect repurchases to continue from time to time in the open market or in private transactions, subject to market conditions.

The following table summarizes our share activity for the three years ended December 31, 2005:

Common Stock	Class A	Class A Special	Class B
Balance, January 1, 2003	1,355,373,648	883,343,590	9,444,375
Stock compensation plans	1,451,469	1,807,358	-
Employee Stock Purchase Plan	695,440	137,085	-
Repurchases of common stock	-	(845,000)	-
Balance, December 31, 2003	1,357,520,557	884,443,033	9,444,375
Stock compensation plans	1,024,856	5,435,772	-
Employee Stock Purchase Plan	1,134,951	-	-
Repurchases of common stock	-	(46,934,235)	-
Balance, December 31, 2004	1,359,680,364	842,944,570	9,444,375
Stock compensation plans	2,391,154	1,983,635	-
Employee Stock Purchase Plan	1,295,800	-	-
Repurchases of common stock	-	(79,120,291)	-
Balance, December 31, 2005	1,363,367,318	765,807,914	9,444,375

### Stock Based Compensation Plans

As of December 31, 2005, we and our subsidiaries have several stock based compensation plans for certain employees, officers and directors. These plans are described below.

#### Comcast Option Plans

We maintain stock option plans for certain employees and directors under which fixed price stock options are granted and the option

price is generally not less than the fair value of a share of the underlying stock at the date of grant (collectively, the "Comcast Option Plans"). Under the Comcast Option Plans, approximately 175 million shares of our Class A and Class A Special common stock were reserved for issuance upon the exercise of options, including those outstanding as of December 31, 2005. Option terms are generally 10 years, with options generally becoming exercisable between two and nine and one half years from the date of grant.

The following table summarizes the activity of the Comcast Option Plans:

(Options in thousands)	2005		2004		2003	
	Options	Weighted-Average Exercise Price	Options	Weighted-Average Exercise Price	Options	Weighted-Average Exercise Price
<b>Class A Common Stock</b>						
Outstanding at beginning of year	82,344	\$36.99	85,151	\$39.28	63,575	\$43.31
Granted	10,291	33.16	16,190	29.86	25,206	28.84
Exercised	(1,948)	23.23	(986)	19.51	(1,264)	20.44
Forfeited, expired, cancelled or repurchased	(9,860)	35.58	(18,011)	42.37	(2,366)	47.14
<b>Outstanding at end of year</b>	<b>80,827</b>	<b>37.09</b>	<b>82,344</b>	<b>36.99</b>	<b>85,151</b>	<b>39.28</b>
<b>Exercisable at end of year</b>	<b>45,157</b>	<b>42.72</b>	<b>43,284</b>	<b>44.36</b>	<b>56,110</b>	<b>44.90</b>
<b>Class A Special Common Stock</b>						
Outstanding at beginning of year	55,238	\$30.67	60,464	\$29.43	64,890	\$28.57
Exercised	(2,362)	12.17	(4,207)	11.53	(3,176)	8.92
Forfeited, expired, cancelled or repurchased	(1,577)	36.66	(1,019)	35.53	(1,250)	36.19
<b>Outstanding at end of year</b>	<b>51,299</b>	<b>31.35</b>	<b>55,238</b>	<b>30.67</b>	<b>60,464</b>	<b>29.43</b>
<b>Exercisable at end of year</b>	<b>44,771</b>	<b>31.64</b>	<b>48,394</b>	<b>31.20</b>	<b>29,212</b>	<b>25.26</b>

The following table summarizes information about the options outstanding under the Comcast Option Plans as of December 31, 2005:

Range of Exercise Prices (Options in thousands)	Options Outstanding			Options Exercisable	
	Number Outstanding	Weighted-Average Remaining Contractual Life	Weighted-Average Exercise Price	Number Exercisable	Weighted-Average Exercise Price
<b>Class A Common Stock</b>					
\$ 5.43-\$13.05	993	1.0 year	\$10.31	993	\$10.31
\$16.11-\$27.74	20,598	6.6 years	26.40	10,052	25.97
\$27.76-\$33.73	27,701	7.3 years	30.86	9,790	32.05
\$33.83-\$45.07	15,662	5.1 years	36.20	8,449	38.05
\$45.08-\$60.89	9,592	3.1 years	55.52	9,592	55.52
\$60.90-\$89.85	6,281	3.4 years	77.98	6,281	77.98
	<b>80,827</b>			<b>45,157</b>	
<b>Class A Special Common Stock</b>					
\$ 7.56-\$14.94	3,169	1.5 years	\$12.24	3,169	\$12.24
\$16.94-\$25.63	11,291	3.5 years	18.49	8,521	17.90
\$27.04-\$35.49	15,384	4.9 years	34.07	13,870	34.08
\$35.53-\$43.81	20,041	4.8 years	38.16	17,797	38.25
\$45.94-\$53.13	1,414	4.0 years	50.48	1,414	50.48
	<b>51,299</b>			<b>44,771</b>	

### Stock Option Liquidity Program

During 2004, we repurchased 11.1 million options from various non-employee holders of stock options under a stock option liquidity program, targeted primarily to former Broadband employees. The former option holders received \$37 million for their options under the program. Our financial counterparty in connection with the stock option liquidity program funded the cost of the program through the simultaneous purchase by the counterparty of new stock options from us that had similar economic terms as the options being purchased by us from the option holders. As a result, 9.7 million options remain outstanding, with a weighted average exercise price of \$40.53 per share, and expire over the course of the next 7 years. These options are excluded from options outstanding in the preceding tables at dates subsequent to this transaction.

### Other Stock Based Compensation Plans

We maintain a restricted stock plan under which certain employees may be granted restricted share or unit awards in our Class A or Class A Special common stock (the "Restricted Stock Plan"). The awards vest annually, generally over a period not to exceed five years from the date of the award, and do not have voting rights.

The following table summarizes the activity of the Restricted Stock Plan:

Year Ended December 31 (Shares in thousands)	2005	2004	2003
<b>Class A Common Stock</b>			
Awards outstanding at beginning of year	2,536	312	150
Granted	4,024	2,490	197
Awards vested and shares issued	(459)	(167)	(35)
Forfeited or cancelled	(243)	(99)	-
<b>Awards outstanding at end of year</b>	<b>5,858</b>	<b>2,536</b>	<b>312</b>
<b>Class A Special Common Stock</b>			
Awards outstanding at beginning of year	392	573	763
Awards vested and shares issued	(172)	(175)	(167)
Forfeited or cancelled	(16)	(6)	(23)
<b>Awards outstanding at end of year</b>	<b>204</b>	<b>392</b>	<b>573</b>
Weighted average fair value per share at grant date	\$33.19	\$31.09	\$30.85
Compensation expense (in millions)	\$ 57	\$ 33	\$ 8

We also maintain a deferred stock option plan for certain employees and directors that provided the optionees with the opportunity to defer the receipt of shares of our Class A or Class A Special common stock which would otherwise be deliverable upon exercise by the optionees of their stock options. As of December 31, 2005, 1.7 million shares of Class A Special common stock were issuable under exercised options, the receipt of which was irrevocably deferred by the optionees pursuant to our deferred stock option plan.

### 11. Income Taxes

We join with our 80% or more owned subsidiaries in filing consolidated federal income tax returns. EI Entertainment files separate consolidated federal income tax returns. Income tax (expense) benefit consists of the following components:

Year Ended December 31 (Dollars in millions)	2005	2004	2003
<b>Current (expense) benefit</b>			
Federal	\$(224)	\$ (90)	\$ 846
State	(126)	(205)	(10)
	(750)	(295)	836
<b>Deferred (expense) benefit</b>			
Federal	(66)	(589)	(886)
State	(27)	58	66
	(183)	(531)	(820)
<b>Income tax (expense) benefit</b>	<b>\$(933)</b>	<b>\$(826)</b>	<b>\$ 16</b>

Our effective income tax (expense) benefit differs from the federal statutory amount because of the effect of the following items:

Year Ended December 31 (Dollars in millions)	2005	2004	2003
Federal tax at statutory rate	\$(653)	\$(634)	\$ 48
State income taxes, net of federal benefit	(144)	(96)	37
Non-deductible losses from joint ventures and equity in net losses of affiliates	(24)	(9)	23
Adjustments to prior year income tax accrual and related interest	(69)	(82)	(90)
Other	(38)	(5)	(2)
<b>Income tax (expense) benefit</b>	<b>\$(933)</b>	<b>\$(826)</b>	<b>\$ 16</b>

Our net deferred tax liability consists of the following components:

December 31 (Dollars in millions)	2005	2004
Deferred tax assets:		
Net operating loss carryforwards	\$ 331	\$ 483
Differences between book and tax basis of long term debt	191	221
Non-deductible accruals and other	904	956
	1,426	1,660
Deferred tax liabilities:		
Differences between book and tax basis of property and equipment and intangible assets	\$23,712	\$23,414
Differences between book and tax basis of investments	4,442	4,855
Differences between book and tax basis of indexed debt securities	644	566
	28,798	28,835
<b>Net deferred tax liability</b>	<b>\$27,372</b>	<b>\$27,175</b>

We recorded an increase (decrease) of \$2 million, \$(12) million and \$3 million to net deferred income tax liabilities in 2005, 2004 and 2003, respectively, in connection with unrealized gains (losses) on marketable securities and cash flow hedges that are included in accumulated other comprehensive income (loss).

Net deferred tax liabilities included in current liabilities are related primarily to our current investments. We have federal net operating loss carryforwards of \$146 million and various state carryforwards that expire in periods through 2025. The determination of the state net operating loss carryforwards is dependent upon the subsidiaries' taxable income or loss, apportionment percentages and other respective state laws, which can change from year to year and impact the amount of such carryforward.

In 2005, 2004 and 2003, income tax benefits attributable to employee stock option transactions of approximately \$35 million, \$80 million and \$19 million, respectively, were allocated to stockholders' equity.

In the ordinary course of business, our tax returns, including those of acquired subsidiaries, are subject to examination by various taxing authorities.

In December 2004, the Internal Revenue Service concluded an examination of the tax returns of MediaOne Group, Inc., a subsidiary acquired with Broadband, for the period of 1996 through 2000. We

received a notice of adjustment disallowing certain deductions, principally a \$1.5 billion breakup fee paid by MediaOne in 1999. The National Office of the IRS has issued a Technical Advice Memorandum that is adverse to us. In January 2006, we met with mediators in an attempt to resolve the issue with the IRS, without success. We do not agree with the adjustment and upon receipt of a final assessment, we intend to file an appeal. In November 2005 we made a payment of \$557 million to reduce the accruing of interest on the pending assessment. If we are successful in part or full, all or some of the funds would be refundable. If the IRS prevails, there would be no material effect on our consolidated results of operations for any period.

During 2005, the IRS proposed the disallowance of non-cash interest deductions taken on the ZONES (see Note 8). The National Office of the IRS has issued a Technical Advice Memorandum that is adverse to us. We have recognized a cumulative federal tax benefit of \$449 million through December 31, 2005, which will reverse and become payable upon the maturity or retirement of the ZONES; we have recorded this amount as a deferred tax liability. If the IRS's position is sustained, the income tax benefits previously recognized would be disallowed, and interest would be assessed on amounts disallowed. Accordingly, the amounts recorded as deferred taxes would become payable. We do not agree with the IRS's position and have appealed. If the IRS prevails there would be no material effect on our consolidated results of operations for any period.

Other examinations of our tax returns may result in future tax and interest assessments by these taxing authorities, and we have accrued a liability when we believe that it is probable that we will be assessed. Differences between the estimated and actual amounts determined upon ultimate resolution, individually or in the aggregate, are not expected to have a material adverse effect on our consolidated financial position but could possibly be material to our consolidated results of operations or cash flows of any one period.

## 12. Statement of Cash Flows – Supplemental Information

The following table summarizes our cash payments for interest and income taxes:

Year Ended December 31 (Dollars in millions)	2005	2004	2003
Interest	\$1,809	\$1,898	\$2,053
Income taxes	\$1,137	\$ 205	\$ 945

During 2005, we:

- ▶ Acquired \$170 million of intangible assets and incurred a corresponding liability in connection with the formation of the ventures in the Motorola transaction, which is considered a non-cash investing and financing activity.
- ▶ Acquired an equity method investment with a fair value of \$91 million and incurred a corresponding liability which is considered a non-cash investing and financing activity.
- ▶ Acquired an additional equity interest with a fair value of \$45 million in one of our equity method investments and recorded a liability for a corresponding amount in connection with our achievement of certain subscriber launch milestones, which is considered a non-cash investing and operating activity.
- ▶ Settled through non-cash financing and investing activities approximately \$1.347 billion related to our Exchangeable Notes (see Note 8).

During 2004, we:

- ▶ Received federal income tax refunds of approximately \$591 million.
- ▶ Settled through non-cash financing and investing activities approximately \$1.944 billion related to our Exchangeable Notes (see Note 8).
- ▶ Acquired cable systems through the assumption of \$68 million of debt, which is considered a non-cash investing and financing activity.
- ▶ Issued shares of G4 with a value of approximately \$70 million in connection with the acquisition of TechTV (see Note 5), which is considered a non-cash financing and investing activity.
- ▶ Received non-cash consideration of approximately \$475 million in connection with the Liberty Exchange Agreement (see Note 5), which is considered a non-cash investing activity.

During 2003, we:

- ▶ Settled through non-cash financing and investing activities approximately \$1.353 billion related to our Exchangeable Notes (see Note 8).
- ▶ Received 218 million Liberty shares and \$4 billion of Liberty Notes in connection with the sale of QVC, which are non-cash investing activities (see Note 5).

### 13. Commitments and Contingencies

#### Commitments

Our cable networks have entered into license agreements for programs and sporting events that are available for telecast. In addition, we, through Comcast Spectacor, have employment agreements with both players and coaches of our professional sports teams. Certain of these employment agreements, which provide for payments that are guaranteed regardless of employee injury or termination, are covered by disability insurance if certain conditions are met.

Certain of our subsidiaries support debt compliance with respect to obligations of certain cable television partnerships and investments in which we hold an ownership interest (see Note 6). The obligations expire between March 2007 and September 2010. Although there can be no assurance, we believe that we will not be required to meet our obligations under such commitments. The total notional amount of our commitments was \$1.021 billion as of December 31, 2005, at which time there were no quoted market prices for similar agreements.

The following table summarizes our minimum annual commitments under program license agreements and our minimum annual rental commitments for office space, equipment and transponder service agreements under noncancelable operating leases as of December 31, 2005:

(Dollars in millions)	Program License Agreements	Operating Leases	Total
2006	\$ 284	\$ 202	\$ 486
2007	262	167	429
2008	189	162	351
2009	189	140	329
2010	195	109	304
Thereafter	1,611	625	2,236

The following table summarizes our rental expense charged to operations:

Year Ended December 31 (Dollars in millions)	2005	2004	2003
Rental expense	\$221	\$194	\$157

#### Contingencies

We and the minority owner group in Comcast Spectacor each have the right to initiate an "exit" process under which the fair market value of Comcast Spectacor would be determined by appraisal. Following such determination, we would have the option to acquire the 24.3% interest in Comcast Spectacor owned by the minority owner group based on the appraised fair market value. In the event we do not exercise this option, we and the minority owner group would then be required to use our best efforts to sell Comcast Spectacor. This exit process includes the minority owner group's interest in Comcast SportsNet.

We hold 39.7% of our 60.5% interest in EI through Comcast Entertainment Holdings, LLC ("Entertainment Holdings"), which is owned 50.1% by us and 49.9% by The Walt Disney Company ("Disney"). We own an additional 20.8% direct interest in EI. Under a limited liability company agreement between us and Disney, we control EI's operations. Under the agreement, Disney is entitled to trigger a potential exit process in which Entertainment Holdings would have the right to purchase Disney's entire interest in Entertainment Holdings at its then fair market value (as determined by an appraisal process). If Disney exercises this right within a specified time period and Entertainment Holdings elects not to purchase Disney's interest, Disney then has the right to purchase, at appraised fair market value, either our entire interest in Entertainment Holdings or all of the shares of stock of EI held by Entertainment Holdings. In the event that Disney exercises its right and neither Disney's nor our interest is purchased, Entertainment Holdings will continue to be owned as it is today, as if the exit process had not been triggered.

A minority owner of G4 is entitled to trigger an exit process whereby on May 10, 2009 (the fifth anniversary of the closing date), and each successive anniversary of the closing date or the occurrence of certain other defined events, G4 would be required to purchase the minority owner's 15% interest at fair market value (as determined by an appraisal process). The minority owners in certain of our technology development ventures also have rights to trigger an exit process after a certain period of time based on the fair value of the entities at the time the exit process is triggered.

#### At Home Cases

Litigation has been filed against us as a result of our alleged conduct with respect to our investment in and distribution relationship with At Home Corporation. At Home was a provider of high-speed internet services that filed for bankruptcy protection in September 2001. Filed actions are: (i) class action lawsuits against us, Brian L. Roberts (our Chairman and Chief Executive Officer and a director), AT&T (the former controlling shareholder of At Home and also a former distributor of the At Home service) and others in the Superior Court of San Mateo County, California, alleging breaches of fiduciary duty in connection with transactions agreed to in March 2000 among At Home, AT&T, Cox (Cox is also an investor in At Home and a former distributor of the At Home service) and us; (ii) class action lawsuits against us, AT&T and others in the United States District Court for the Southern District of New York, alleging securities law violations and common law fraud in connection with disclosures made by At Home in 2001; and (iii) a lawsuit brought in the United States District Court for the District of Delaware in the name of At Home by certain At Home bondholders against us, Brian L. Roberts, Cox and others, alleging breaches of fiduciary duty relating to the March 2000 transactions and seeking recovery of alleged short swing profits of at least \$800 million, pursuant to Section 16(b) of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), purported to have arisen in connection with certain transactions relating to At Home stock, effected pursuant to the March 2000 agreements.

The actions in San Mateo County, California (item (i) above), have been stayed by the United States Bankruptcy Court for the Northern District of California, the court in which At Home filed for bankruptcy, as violating the automatic bankruptcy stay. The decision to stay the actions was affirmed by the District Court and the Court of Appeals for the Ninth Circuit. In the Southern District of New York actions (item (ii) above), the court has dismissed the common law fraud claims against all defendants, leaving only the securities law claims. In a subsequent decision, the court limited the remaining claims against us and Mr. Roberts to disclosures that are alleged to have been made by At Home prior to August 28, 2000. In March 2005 the court certified a class of all purchasers of publicly traded At Home stock between March 28, 2000, and September 28, 2001. Plaintiffs have moved to amend the complaint so as to move the commencement of the class period back to November 9, 1999. We are opposing this

amendment and have also moved to dismiss the complaint for failure to properly allege loss causation. The Delaware case (item (iii) above) was transferred to the United States District Court for the Southern District of New York. The court dismissed the Section 16(b) claims against us for failure to state a claim and the breach of fiduciary duty claim for lack of federal jurisdiction. The plaintiffs have appealed the decision dismissing the Section 16(b) claims and have recommenced the breach of fiduciary duty claim in Delaware Chancery Court. We have filed a motion to dismiss the Chancery Court claim.

Under the terms of the Broadband acquisition, we are contractually liable for 50% of any liabilities of AT&T relating to certain At Home litigation. For litigation in which we are contractually liable for 50% of any liabilities, AT&T will be liable for the other 50%. In addition to the actions against AT&T described in items (i), (ii) and (iii) above (in which we are also a defendant), such litigation matters included two additional actions brought by At Home's bondholders' liquidating trust against AT&T (and not naming us): (i) a lawsuit filed against AT&T and certain of its senior officers in Santa Clara, California state court alleging various breaches of fiduciary duties, misappropriation of trade secrets and other causes of action and (ii) an action filed against AT&T in the District Court for the Northern District of California alleging that AT&T infringes an At Home patent by using its broadband distribution and high-speed Internet backbone networks and equipment. In May 2005, At Home bondholders' liquidating trust and AT&T agreed to settle these two actions. Pursuant to the settlement, AT&T agreed to pay \$340 million to the bondholders' liquidating trust. The settlement was approved by the Bankruptcy Court, and these two actions were dismissed. As a result of the settlement by AT&T, we recorded a \$170 million charge to other income (expense), reflecting our portion of the settlement amount to AT&T, in our first quarter 2005 financial results. In May 2005, we paid \$170 million representing our share of the settlement amount, and we have classified such payment as an operating activity in our 2005 statement of cash flows.

We deny any wrongdoing in connection with the claims that have been made directly against us, our subsidiaries and Brian L. Roberts, and are defending all of these claims vigorously. The final disposition of these claims is not expected to have a material adverse effect on our consolidated financial position but could possibly be material to

our consolidated results of operations of any one period. Further, no assurance can be given that any adverse outcome would not be material to our consolidated financial position.

#### AT&T – Wireless and Common Stock Cases

Under the terms of the Broadband acquisition, we are potentially responsible for a portion of the liabilities arising from two purported securities class action lawsuits brought against AT&T and others and consolidated for pre-trial purposes in the United States District Court for the District of New Jersey. These lawsuits assert claims under Section 11 and Section 12(a)(2) of the Securities Act of 1933, as amended, and Section 10(b) of the Exchange Act.

The first lawsuit, for which our portion of any loss is up to 15%, alleges that AT&T made material misstatements and omissions in the Registration Statement and Prospectus for the AT&T Wireless initial public offering ("Wireless Case"). In March 2004, the plaintiffs, and AT&T and the other defendants, moved for summary judgment in the Wireless Case. The New Jersey District Court denied the motions and the Judicial Panel on Multidistrict Litigation remanded the cases for trial to the United States District Court for the Southern District of New York, where they had originally been brought. A trial date has been set for April 19, 2006. We and AT&T believe that AT&T has meritorious defenses in the Wireless Case, and it is being vigorously defended.

The second lawsuit, for which our portion of any loss is 50%, alleges that AT&T knowingly provided false projections relating to AT&T common stock ("Common Stock Case"). In October 2004, the plaintiffs, and AT&T and the other defendants, agreed to settle the Common Stock Case for \$100 million. Some class members have objected to the amount and apportionment of the fees of class counsel and have appealed to the Third Circuit Court of Appeals. In May 2005, we paid \$50 million representing our share of the settlement amount and we have classified such payment as an operating activity in our statement of cash flows.

In connection with the Broadband acquisition, we recorded an estimate of the fair value of the potential liability associated with both the Wireless and Common Stock cases. As a result of the settlement reached during the fourth quarter of 2004, we reduced the fair value



liability in the Common Stock Case by \$250 million, which has been recognized in other income in our 2004 statement of operations.

#### AT&T - TCI Cases

In June 1998, the first of a number of purported class action lawsuits was filed by then-shareholders of Tele-Communications, Inc. ("TCI") Series A TCI Group Common Stock ("Common A") against AT&T and the directors of TCI relating to the acquisition of TCI by AT&T. A consolidated amended complaint combining the various different actions was filed in February 1999 in the Delaware Court of Chancery. The consolidated amended complaint alleges that former members of the TCI board of directors breached their fiduciary duties to Common A shareholders by agreeing to transaction terms whereby holders of the Series B TCI Group Common Stock received a 10% premium over what Common A shareholders received in connection with the transaction. The complaint further alleges that AT&T aided and abetted the TCI directors' breach of their fiduciary duties.

In connection with the TCI acquisition, which was completed in early 1999, AT&T agreed under certain circumstances to indemnify TCI's former directors for certain losses, expenses, claims or liabilities, potentially including those incurred in connection with this action. In connection with the Broadband acquisition, we agreed to indemnify AT&T for certain losses, expenses, claims or liabilities. Those losses and expenses potentially include those incurred by AT&T in connection with this action, both as a defendant and in connection with any obligation that AT&T may have to indemnify the former TCI directors for liabilities incurred as a result of the claims against them.

In July 2003, the Delaware Court of Chancery granted AT&T's motion to dismiss on the ground that the complaint failed to adequately plead AT&T's "knowing participation," as required to state a claim for aiding and abetting a breach of fiduciary duty. In February 2005, the former TCI director defendants filed a motion for summary judgment.

In December 2005, the Court issued a ruling that there were triable issues of fact as to whether the merger was fair to the Common A shareholders, among other matters. The final disposition of these claims is not expected to have a material adverse effect on our consolidated financial position, but could possibly be material to our consolidated results of operations of any one period. Further, no assurance can be given that any adverse outcome would not be material to our consolidated financial position.

#### Patent Litigation

We are a defendant in several unrelated lawsuits claiming infringement of various patents relating to various aspects of our businesses. In certain of these cases other industry participants are also defendants, and also in certain of these cases we expect that any potential liability would be the responsibility of our equipment vendors pursuant to applicable contractual indemnification provisions. To the extent that the allegations in these lawsuits can be analyzed by us at this stage of their proceedings, we believe the claims are without merit and intend to defend the actions vigorously. The final disposition of these claims are not expected to have a material adverse effect on our consolidated financial position, but could possibly be material to our consolidated results of operations of any one period. Further, no assurance can be given that any adverse outcome would not be material to our consolidated financial position.

#### Other

We are subject to other legal proceedings and claims that arise in the ordinary course of our business. The amount of ultimate liability with respect to such actions is not expected to materially affect our financial position, results of operations or liquidity.

14 Financial Data by Business Segment

Our reportable segments consist of our Cable and Content businesses. Our Content segment consists of our national cable networks E!, Style Network, TGC, OLN, G4 and AZN Television (formerly known as the International Channel). In evaluating the profitability of our segments, the components of net income (loss) below operating income (loss) before depreciation and amortization are not separately evaluated by our management.

	(Dollars in millions)			
	Cable <sup>(1)</sup>	Content	Corporate and Other <sup>(2)</sup>	Eliminations <sup>(3)</sup>
<b>2005</b>				
Revenues <sup>(4)</sup>	\$ 21,158	\$ 919	\$ 323	\$ (145)
Operating income (loss) before depreciation and amortization <sup>(5)</sup>	8,458	283	(239)	(10)
Depreciation and amortization	4,598	155	70	(20)
Operating income (loss)	3,860	128	(308)	10
Assets	100,774	2,530	2,790	(2,918)
Capital expenditures	3,567	16	39	-
<b>2004</b>				
Revenues <sup>(4)</sup>	\$ 19,316	\$ 787	\$ 332	\$ (128)
Operating income (loss) before depreciation and amortization <sup>(5)</sup>	7,471	265	(203)	(2)
Depreciation and amortization	4,375	162	104	(18)
Operating income (loss)	3,096	103	(307)	16
Assets	103,727	2,533	2,959	(4,525)
Capital expenditures	3,622	17	21	-
<b>2003</b>				
Revenues <sup>(4)</sup>	\$ 17,492	\$ 628	\$ 341	\$ (113)
Operating income (loss) before depreciation and amortization <sup>(5)</sup>	6,350	214	(178)	6
Depreciation and amortization	4,223	129	88	(2)
Operating income (loss)	2,127	85	(266)	8
Assets	105,316	2,048	1,945	(150)
Capital expenditures	4,097	18	46	-

(1) In 2005, 2004 and 2003 approximately 64%, 67% and 69%, respectively, of our cable segment's revenues were derived from our video services and approximately 19%, 16% and 13%, respectively, were derived from our high-speed internet services. The remaining revenues were derived primarily from phone, advertising and other revenues. Our regional sports and news networks CSN, CSN Mid Atlantic, CSN Chicago, CSN West, CSS and CN8 are included in our Cable segment.

(2) Corporate and other includes Comcast Spectacor, corporate activities and all other businesses not presented in our Cable or Content segments. Assets included in this caption consist primarily of our investments (see Note 6).

(3) Included in the Eliminations column are intersegment transactions that our segments enter into with one another. The most common types of transactions are the following:

- > Our Content segment generates revenue by selling cable network programming to our Cable segment, which represents a substantial majority of the revenue elimination amount.
- > Our Cable segment receives incentives offered by our Content segment when negotiating programming contracts that are recorded as a reduction of programming costs.
- > Our Cable segment generates revenue by selling the use of satellite feeds to our Content segment.
- > Our Cable segment generates revenue by selling the use of its fiber optic lines and site conditioning to our Corporate and Other segment. Our Corporate and Other segment pays our Cable segment a lump sum and holds the property and the related depreciation expense and accumulated depreciation. Our Cable segment's revenue is generated through the amortization of the deferred revenue recorded for the lump sum payment.
- > Our Corporate and Other segment generates revenue by selling long distance services to our Cable segment.

(4) Non-U.S. revenues were not significant in any period. No single customer accounted for a significant amount of our revenue in any period.

(5) To measure the performance of our operating segments, we use operating income before depreciation and amortization, excluding impairment charges related to fixed and intangible assets, and gains or losses from the sale of assets. If any. This measure eliminates the significant level of non-cash depreciation and amortization expense that results from the capital-intensive nature of our businesses and from intangible assets recognized in business combinations. It is also unaffected by our capital structure or investment activities. We use this measure to evaluate our consolidated operating performance, the operating performance of our operating segments, and to allocate resources and capital to our operating segments. It is also a significant component of our annual incentive compensation programs. We believe that this measure is useful to investors because it is one of the bases for comparing our operating performance with other companies in our industries, although our measure may not be directly comparable to similar measures used by other companies. This measure should not be considered as a substitute for operating income (loss), net income (loss), net cash provided by operating activities or other measures of performance or liquidity reported in accordance with GAAP.

## 15. Quarterly Financial Information (Unaudited)

(Dollars in millions, except per share data)

	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total Year
<b>2005</b>					
Revenues	\$5,363	\$5,598	\$5,578	\$5,716	\$22,255
Operating income	866	1,048	883	893	3,690
Net income	143	430	222	133 <sup>(1)</sup>	928
Basic earnings for common stockholders per common share	0.06	0.19	0.10	0.06	0.42
Diluted earnings for common stockholders per common share	0.06	0.19	0.10	0.06	0.42
<b>2004</b>					
Revenues	\$4,908	\$5,066	\$5,098	\$5,235	\$20,307
Operating income	659	852	686	711	2,908
Net income	65	262	220	423	970
Basic earnings for common stockholders per common share	0.03	0.12	0.10	0.19	0.43
Diluted earnings for common stockholders per common share	0.03	0.12	0.10	0.19	0.43

<sup>(1)</sup> Includes refinement to our effective tax rate in the fourth quarter of 2005.

## 16. Condensed Consolidating Financial Information

Comcast Corporation and five of our cable holding company subsidiaries, Comcast Cable Communications, LLC ("CCCL"), Comcast Cable Communications Holdings, Inc. ("CCHH"), Comcast MO Group, Inc. ("Comcast MO Group"), Comcast Cable Holdings, LLC ("CCH"), and Comcast MO of Delaware, LLC ("Comcast MO of Delaware") fully and unconditionally guaranteed each other's debt securities. Comcast MO Group, CCH and Comcast MO of Delaware are collectively referred to as the "Combined CCHMO Parents."

In September 2005, Comcast Corporation unconditionally guaranteed Comcast Holdings' ZONES due October 2029 and its 10% Senior Subordinated Debentures due 2012, both of which were issued by Comcast Holdings; accordingly we have added Comcast Holdings' condensed consolidated information for all periods presented. Our condensed consolidating financial information is as follows:

## Comcast Corporation Condensed Consolidating Balance Sheet

As of December 31, 2005 (Dollars in millions)	Comcast Parent	CCCL Parent	CCHH Parent	Combined CCHMO Parents	Comcast Holdings	Non-Guarantor Subsidiaries	Elimination and Consolidation Adjustments	Consolidated Comcast Corporation
<b>Assets</b>								
Cash and cash equivalents	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 693	\$ -	\$ 693
Investments	-	-	-	-	-	148	-	148
Accounts receivable, net	-	-	-	-	-	1,060	-	1,060
Other current assets	16	-	-	-	-	677	-	693
Total current assets	16	-	-	-	-	2,578	-	2,594
Investments	-	-	-	-	-	12,682	-	12,682
Investments in and Amounts Due from Subsidiaries Eliminated Upon Consolidation	53,103	29,562	36,042	40,482	22,742	955	(182,656)	-
Property and Equipment, net	11	-	2	-	3	18,753	-	18,769
Franchise Rights	-	-	-	-	-	51,090	-	51,090
Goodwill	-	-	-	-	-	14,218	-	14,218
Other Intangible Assets, net	-	-	-	-	4	3,158	-	3,160
Other Noncurrent Assets, net	122	21	23	-	43	424	-	613
<b>Total Assets</b>	<b>\$53,252</b>	<b>\$29,583</b>	<b>\$36,067</b>	<b>\$40,482</b>	<b>\$22,792</b>	<b>\$103,856</b>	<b>\$(182,656)</b>	<b>\$103,146</b>
<b>Liabilities and Stockholders' Equity</b>								
Accounts payable and accrued expenses related to trade creditors	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,033	\$ -	\$ 2,033
Accrued expenses and other current liabilities	447	224	113	127	89	1,545	-	2,545
Deferred income taxes	-	-	-	-	-	2	-	2
Current portion of long term debt	-	620	-	995	-	74	-	1,689
Total current liabilities	447	844	113	1,122	89	3,654	-	6,269
Long Term Debt, less current portion	8,243	4,988	3,498	3,318	981	654	-	21,682
Deferred Income Taxes	3,470	-	-	-	811	23,089	-	27,370
Other Noncurrent Liabilities	873	54	-	-	50	5,972	-	8,949
Minority Interest	-	-	-	-	-	657	-	657
Stockholders' Equity								
Common stock	25	-	-	-	-	-	-	25
Other stockholders' equity	40,194	23,897	32,456	36,042	20,861	69,830	(182,656)	40,194
Total Stockholders' Equity	40,219	23,897	32,456	36,042	20,861	69,830	(182,656)	40,219
<b>Total Liabilities and Stockholders' Equity</b>	<b>\$53,252</b>	<b>\$29,583</b>	<b>\$36,067</b>	<b>\$40,482</b>	<b>\$22,792</b>	<b>\$103,856</b>	<b>\$(182,656)</b>	<b>\$103,146</b>

## Comcast Corporation Condensed Consolidating Balance Sheet

As of December 31, 2004 (Dollars in millions)	Comcast Parent	CCCL Parent	CCCH Parent	Combined CCHMO Parents	Comcast Holdings	Non- Guarantor Subsidiaries	Elimination and Consolidation Adjustments	Consolidated Comcast Corporation
<b>Assets</b>								
Cash and cash equivalents	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 452	\$ -	\$ 452
Investments	-	-	-	-	-	1,555	-	1,555
Accounts receivable, net	-	-	-	-	-	959	-	959
Other current assets	15	-	-	-	-	554	-	569
Total current assets	15	-	-	-	-	3,520	-	3,535
Investments	-	-	-	-	-	12,812	-	12,812
Investments in and Amounts Due from Subsidiaries Eliminated								
Upon Consolidation	48,317	28,687	35,642	41,898	21,734	401	(176,679)	-
Property and Equipment, net	8	-	3	-	5	18,695	-	18,711
Franchise Rights	-	-	-	-	-	51,071	-	51,071
Goodwill	-	-	-	-	-	14,020	-	14,020
Other Intangible Assets, net	-	-	-	-	14	3,837	-	3,851
Other Noncurrent Assets, net	107	30	27	-	46	484	-	694
<b>Total Assets</b>	<b>\$48,447</b>	<b>\$28,717</b>	<b>\$35,672</b>	<b>\$41,898</b>	<b>\$21,799</b>	<b>\$104,840</b>	<b>\$(176,679)</b>	<b>\$104,694</b>
<b>Liabilities and Stockholders' Equity</b>								
Accounts payable and accrued expenses related to trade creditors	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,041	\$ -	\$ 2,041
Accrued expenses and other current liabilities	671	216	126	197	204	1,321	-	2,735
Deferred income taxes	-	-	-	-	-	360	-	360
Current portion of long term debt	-	700	-	1,080	-	1,719	-	3,499
Total current liabilities	671	916	126	1,277	204	5,441	-	8,636
Long Term Debt, less current portion	4,323	5,643	3,498	4,979	950	700	-	20,093
Deferred Income Taxes	1,345	-	-	-	733	24,737	-	26,815
Other Noncurrent Liabilities	686	23	-	-	-	6,552	-	7,261
Minority Interest	-	-	-	-	-	468	-	468
Stockholders' Equity								
Common stock	25	-	-	-	-	-	-	25
Other stockholders' equity	41,397	22,135	32,048	35,642	19,912	66,942	(176,679)	41,397
Total Stockholders' Equity	41,422	22,135	32,048	35,642	19,912	66,942	(176,679)	41,422
<b>Total Liabilities and Stockholders' Equity</b>	<b>\$48,447</b>	<b>\$28,717</b>	<b>\$35,672</b>	<b>\$41,898</b>	<b>\$21,799</b>	<b>\$104,840</b>	<b>\$(176,679)</b>	<b>\$104,694</b>

## Comcast Corporation Condensed Consolidating Statement of Operations

For the Year Ended December 31, 2005 (Dollars in millions)	Comcast Parent	CCCL Parent	CCCH Parent	Combined CCHMO Parents	Comcast Holdings	Non- Guarantor Subsidiaries	Elimination and Consolidation Adjustments	Consolidated Comcast Corporation
<b>Revenues</b>								
Service revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$22,255	\$ -	\$22,255
Management fee revenue	457	174	278	278	8	-	(1,195)	-
	457	174	278	278	8	22,255	(1,195)	22,255
<b>Costs and Expenses</b>								
Operating (excluding depreciation)	-	-	-	-	-	7,869	-	7,869
Selling, general and administrative	204	174	278	278	15	6,039	(1,195)	5,798
Depreciation	3	-	-	-	3	3,624	-	3,630
Amortization	-	-	-	-	10	1,163	-	1,173
	207	174	278	278	28	18,795	(1,195)	18,566
Operating Income	250	-	-	-	(20)	3,480	-	3,690
<b>Other (Expense) Income</b>								
Interest expense	(371)	(477)	(329)	(306)	(101)	(212)	-	(1,796)
Investment income (loss), net	-	-	-	-	(16)	105	-	89
Equity in net income (losses) of affiliates	1,007	1,372	605	604	977	38	(4,850)	(47)
Other (expense)	-	-	-	-	-	(56)	-	(56)
	636	895	276	498	860	(125)	(4,850)	(1,819)
<b>Income (Loss) Before Income Taxes and</b>								
Minority Interest	888	895	276	498	840	3,335	(4,850)	1,880
Income Tax (Expense) Benefit	42	167	115	107	48	(1,412)	-	(933)
Income (Loss) Before Minority Interest	928	1,062	391	605	888	1,923	(4,850)	947
Minority Interest	-	-	-	-	-	(19)	-	(19)
<b>Net Income (Loss)</b>	<b>\$928</b>	<b>\$1,062</b>	<b>\$391</b>	<b>\$605</b>	<b>\$888</b>	<b>\$1,904</b>	<b>\$(4,850)</b>	<b>\$ 928</b>

## Comcast Corporation Condensed Consolidating Statement of Operations

For the Year Ended December 31, 2004 (Dollars in millions)	Comcast Parent	CCCL Parent	CCCH Parent	Combined CCHMO Parents	Comcast Holdings	Non- Guarantor Subsidiaries	Elimination and Consolidation Adjustments	Consolidated Comcast Corporation
<b>Revenues</b>								
Service revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$20,307	\$ -	\$20,307
Management fee revenue	416	161	253	253	8	-	(1,091)	-
	416	161	253	253	8	20,307	(1,091)	20,307
<b>Costs and Expenses</b>								
Operating (excluding depreciation)	-	-	-	-	-	7,462	-	7,462
Selling, general and administrative	168	161	253	253	13	5,557	(1,091)	5,314
Depreciation	2	-	-	-	3	3,415	-	3,420
Amortization	-	-	-	-	11	1,192	-	1,203
	170	161	253	253	27	17,626	(1,091)	17,399
Operating Income	246	-	-	-	(19)	2,681	-	2,908
<b>Other (Expense) Income</b>								
Interest expense	(289)	(474)	(348)	(399)	(98)	(268)	-	(1,876)
Investment income, net	-	-	-	-	100	372	-	472
Equity in net income (losses) of affiliates	998	1,170	310	569	997	(223)	(3,909)	(88)
Other income	-	-	-	-	-	394	-	394
	709	696	(38)	170	999	275	(3,909)	(1,098)
<b>Income (Loss) Before Income Taxes and Minority Interest</b>								
	955	696	(38)	170	980	2,956	(3,909)	1,810
Income Tax (Expense) Benefit	15	166	122	140	6	(1,275)	-	(826)
Income (Loss) Before Minority Interest	970	862	84	310	986	1,681	(3,909)	984
Minority Interest	-	-	-	-	-	(14)	-	(14)
<b>Net Income (Loss)</b>	<b>\$970</b>	<b>\$ 862</b>	<b>\$ 84</b>	<b>\$ 310</b>	<b>\$986</b>	<b>\$ 1,667</b>	<b>\$(3,909)</b>	<b>\$ 970</b>

Comcast Corporation Condensed Consolidating Statement of Operations

For the Year Ended December 31, 2003 (Dollars in millions)	Comcast Parent	GCCL Parent	COCH Parent	Combined COHMO Parents	Comcast Holdings	Non- Quarter Subsidiaries	Elimination and Consolidation Adjustments Comcast Corporation
Revenues							
Service revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,348	\$ -
Management fee revenue	376	147	231	231	5	-	(990)
	376	147	231	231	5	18,348	(990)
Costs and Expenses							
Operating (excluding depreciation)	-	-	-	-	-	7,041	-
Selling, general and administrative	156	147	231	231	10	5,130	(990)
Depreciation	-	-	-	-	4	3,162	-
Amortization	-	-	-	-	9	1,263	-
	156	147	231	231	14	9,494	(990)
Operating income	220	-	-	-	(18)	1,752	-
Other (Expense) Income							
Interest expense	(292)	(527)	(373)	(398)	(92)	(336)	-
Investment loss, net	-	-	-	-	(59)	(25)	-
Equity in net income (losses) of affiliates	3,287	996	(356)	(97)	848	(255)	(4,483)
Other income	-	-	-	-	-	71	-
	2,995	469	(729)	(495)	697	(645)	(4,483)
Income (Loss) from Continuing Operations	3,215	469	(729)	(495)	679	1,207	(4,483)
Income Tax (Expense) Benefit	25	184	131	139	59	(522)	-
Income (Loss) from Continuing Operations	3,240	653	(598)	(356)	738	685	(4,483)
Minority Interest	-	-	-	-	-	(97)	-
Income (Loss) from Continuing Operations	3,240	653	(598)	(356)	738	588	(4,483)
Income from Discontinued Operations,							
net of tax	-	-	-	-	-	168	-
Gain on Discontinued Operations, net of tax	-	-	-	-	-	3,290	-
	3,240	653	(598)	(356)	738	4,046	(4,483)
Net Income (Loss)	\$ 3,240	\$ 653	\$ (598)	\$ (356)	\$ 738	\$ 4,046	\$ (4,483)



## Comcast Corporation Condensed Consolidating Statement of Cash Flows

For the Year Ended December 31, 2005 (Dollars in millions)	Comcast Parent	CCCL Parent	OCCH Parent	Combined CCHMO Parents	Comcast Holdings	Non- Guarantor Subsidiaries	Elimination and Consolidation Adjustments	Consolidated Comcast Corporation
<b>Operating Activities</b>								
Net cash provided by (used in)								
operating activities	\$ 61	\$(256)	\$(204)	\$ (367)	\$(110)	\$ 5,818	\$-	\$ 4,922
<b>Financing Activities</b>								
Proceeds from borrowings	3,972	-	-	-	-	6	-	3,978
Retirements and repayments of debt	-	(700)	-	(1,628)	(13)	(365)	-	(2,706)
Issuances of common stock	93	-	-	-	-	-	-	93
Repurchases of common stock and stock options held by non-employees	(2,313)	-	-	-	-	-	-	(2,313)
Other financing activities	-	-	-	-	-	15	-	15
Net cash (used in) provided by financing activities	1,752	(700)	-	(1,628)	(13)	(344)	-	(933)
<b>Investing Activities</b>								
Net transactions with affiliates	(1,813)	956	204	2,015	123	(1,465)	-	-
Capital expenditures	-	-	-	-	-	(3,621)	-	(3,621)
Proceeds from sales, settlements and restructuring of investments	-	-	-	-	-	661	-	661
Acquisitions, net of cash acquired	-	-	-	-	-	(109)	-	(109)
Cash paid for intangible assets	-	-	-	-	-	(261)	-	(261)
Purchases of short term investments, net	-	-	-	-	-	(66)	-	(66)
Capital contributions to and purchases of investments	-	-	-	-	-	(306)	-	(306)
Other investing activities	-	-	-	-	-	(116)	-	(116)
Net cash provided by (used in) investing activities	(1,813)	956	204	2,015	123	(6,238)	-	(3,748)
<b>Increase in Cash and Cash Equivalents</b>								
Cash and Cash Equivalents, beginning of year	-	-	-	-	-	452	-	452
<b>Cash and Cash Equivalents, end of year</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 693</b>	<b>\$-</b>	<b>\$ 693</b>

## Comcast Corporation Condensed Consolidating Statement of Cash Flows

For the Year Ended December 31, 2004 (Dollars in millions)	Comcast Parent	CCCL Parent	COCH Parent	Combined CCHMO Parents	Comcast Holdings	Non- Guarantor Subsidiaries	Elimination and Consolidation Adjustments	Consolidated Comcast Corporation
<b>Operating Activities</b>								
Net cash provided by (used in)								
operating activities	\$ 482	\$(143)	\$(155)	\$(478)	\$ 8	\$ 6,216	\$-	\$ 5,930
<b>Financing Activities</b>								
Proceeds from borrowings	620	-	400	-	-	10	-	1,030
Retirements and repayments of debt	(300)	(561)	(400)	(306)	-	(756)	-	(2,323)
Issuances of common stock	113	-	-	-	-	-	-	113
Repurchases of common stock and stock options held by non-employees	(1,361)	-	-	-	-	-	-	(1,361)
Other financing activities	8	-	-	-	-	17	-	25
Net cash (used in) provided by financing activities	(920)	(561)	-	(306)	-	(729)	-	(2,516)
<b>Investing Activities</b>								
Net transactions with affiliates	438	704	155	784	(8)	(2,073)	-	-
Capital expenditures	-	-	-	-	-	(3,660)	-	(3,660)
Proceeds from sales, settlements and restructuring of investments	-	-	-	-	-	228	-	228
Acquisitions, net of cash acquired	-	-	-	-	-	(296)	-	(296)
Cash paid for intangible assets	-	-	-	-	-	(615)	-	(615)
Purchases of short term investments, net	-	-	-	-	-	(13)	-	(13)
Capital contributions to and purchases of investments	-	-	-	-	-	(156)	-	(156)
Proceeds from settlement of contract of acquired company	-	-	-	-	-	26	-	26
Other investing activities	-	-	-	-	-	(26)	-	(26)
Net cash provided by (used in) investing activities	438	704	155	784	(8)	(6,585)	-	(4,512)
Decrease in Cash and Cash Equivalents	-	-	-	-	-	(1,098)	-	(1,098)
Cash and Cash Equivalents, beginning of year	-	-	-	-	-	1,550	-	1,550
<b>Cash and Cash Equivalents, end of year</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 452</b>	<b>\$-</b>	<b>\$ 452</b>

Comcast Corporation Condensed Consolidating Statement of Cash Flows

For the Year Ended December 31, 2005 (Dollars in millions)	Comcast Parent	CCCL Parent	CCCH Parent	Combined CCHMO Parents	Comcast Holdings	Non- Guarantor Subsidiaries	Elimination and Consolidation Adjustments	Comcast Consolidated Corporation
Operating Activities								
Net cash provided by (used in) operating activities from continuing operations	\$ 264	\$ (297)	\$ (121)	\$ (553)	\$ (94)	\$ 3,655	\$-	\$ 2,854
Financing Activities								
Proceeds from borrowings	8,138	1,150	-	-	-	110	-	9,398
Retirements and repayments of debt	(4,830)	(2,104)	(6,250)	(2,407)	(93)	(781)	-	(16,465)
Issuances of common stock	67	-	-	-	-	-	-	67
Repurchases of common stock and stock options held by non-employees	(14)	-	-	-	-	-	-	(14)
Other financing activities	-	-	-	-	-	(34)	-	(34)
Net cash (used in) provided by financing activities from continuing operations	3,361	(954)	(6,250)	(2,407)	(93)	(705)	-	(7,048)
Investing Activities								
Net transactions with affiliates	(3,625)	1,251	6,371	2,960	187	(7,144)	-	-
Capital expenditures	-	-	-	-	-	(4,161)	-	(4,161)
Proceeds from sales, settlements and restructuring of investments	-	-	-	-	-	7,971	-	7,971
Acquisitions, net of cash acquired	-	-	-	-	-	(152)	-	(152)
Cash paid for intangible assets	-	-	-	-	-	(155)	-	(155)
Purchases of short term investments, net	-	-	-	-	-	(32)	-	(32)
Proceeds from sale of discontinued operations and assets held for sale	-	-	-	-	-	1,875	-	1,875
Capital contributions to and purchases of investments	-	-	-	-	-	(202)	-	(202)
Proceeds from settlement of contract of acquired company	-	-	-	-	-	95	-	95
Net cash provided by (used in) investing activities from continuing operations	(3,625)	1,251	6,371	2,960	187	(1,905)	-	5,239
Increase (Decrease) in Cash and Cash Equivalents	-	-	-	-	-	1,045	-	1,045
Cash and Cash Equivalents, beginning of year	-	-	-	-	-	505	-	505
Cash and Cash Equivalents, end of year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,550	\$-	\$ 1,550

RECONCILIATION OF NON-GAAP MEASURES

Reconciliation of 2005 Operating Income to Operating Cash Flow and Free Cash Flow

2005 Operating Income	\$0,890
Add: 2005 Depreciation and Amortization	4,803
2005 Operating Cash Flow	5,693
Less: 2005 Capital Expenditures	3,021
2005 Consolidated Interest, net <sup>(1)</sup>	1,653
2005 Consolidated Cash Paid for Income Taxes <sup>(2)</sup>	653
2005 Free Cash Flow <sup>(3)</sup>	\$2,566

(Dollars in millions)

<sup>(1)</sup> Includes interest expense net of interest income and excludes non-cash interest and subsidiary preferred dividends

<sup>(2)</sup> Cash paid for income taxes excludes \$490 million related to AT&T Broadband income taxes and related interest, net of estimated tax benefit.

<sup>(3)</sup> Free Cash Flow (as presented above) is defined as Operating Cash Flow less net interest, cash paid for income taxes, and capital expenditures. It is unaffected by fluctuations in working capital levels from period to period and cash payments associated with intangible and other noncurrent assets, acquisitions and investments.

MARKET FOR THE REGISTRANT'S COMMON EQUITY

Our Class A common stock is included on Nasdaq under the symbol CMCSA and our Class A Special common stock is included on Nasdaq under the symbol CMCSK. There is no established public trading market for our Class B common stock. Our Class B common stock can be converted, on a share for share basis, into Class A or Class A Special common stock. The following table sets forth, for the indicated periods, the closing price range of our Class A and Class A Special common stock, as furnished by Nasdaq.

	Class A		Class A Special	
	High	Low	High	Low
2005				
First Quarter	\$34.30	\$31.31	\$33.98	\$30.71
Second Quarter	33.53	30.57	33.26	29.51
Third Quarter	32.10	28.53	31.69	29.31
Fourth Quarter	28.94	25.32	28.58	25.00
2004				
First Quarter	\$36.13	\$28.00	\$35.10	\$27.05
Second Quarter	30.66	27.63	29.70	26.67
Third Quarter	28.75	26.48	28.13	26.18
Fourth Quarter	33.28	27.84	32.84	27.50

We do not intend to pay dividends on our Class A, Class A Special or Class B common stock for the foreseeable future.

As of December 31, 2005, there were 862,711 record holders of our Class A common stock, 2,390 record holders of our Class A Special common stock and three record holders of our Class B common stock.

## SELECTED FINANCIAL DATA

Year Ended December 31 (Dollars in millions, except per share data)	2005	2004	2003	2002 <sup>(1)</sup>	2001
<b>Statement of Operations Data:</b>					
Revenues	\$ 22,255	\$ 20,307	\$ 18,348	\$ 8,102	\$ 5,937
Operating income (loss)	3,690	2,908	1,954	921	(1,325)
Income (loss) from continuing operations before cumulative effect of accounting change	928	970	(218)	(469)	4
Discontinued operations <sup>(2)</sup>	—	—	3,458	195	220
Cumulative effect of accounting change <sup>(3)</sup>	—	—	—	—	385
Net income (loss)	928	970	3,240	(274)	609
<b>Basic earnings (loss) for common stockholders per common share</b>					
Income (loss) from continuing operations before cumulative effect of accounting change	\$ 0.42	\$ 0.43	\$ (0.10)	\$ (0.42)	\$ 0.00
Discontinued operations <sup>(2)</sup>	—	—	1.54	0.17	0.24
Cumulative effect of accounting change <sup>(3)</sup>	—	—	—	—	0.40
Net income (loss)	\$ 0.42	\$ 0.43	\$ 1.44	\$ (0.25)	\$ 0.64
<b>Diluted earnings (loss) for common stockholders per common share</b>					
Income (loss) from continuing operations before cumulative effect of accounting change	\$ 0.42	\$ 0.43	\$ (0.10)	\$ (0.42)	\$ 0.00
Discontinued operations <sup>(2)</sup>	—	—	1.54	0.17	0.23
Cumulative effect of accounting change <sup>(3)</sup>	—	—	—	—	0.40
Net income (loss)	\$ 0.42	\$ 0.43	\$ 1.44	\$ (0.25)	\$ 0.63
<b>Balance Sheet Data (at year end):</b>					
Total assets	\$103,146	\$104,694	\$109,159	\$113,128	\$38,261
Long term debt	21,682	20,093	23,835	27,956	11,679
Stockholders' equity	40,219	41,422	41,662	38,329	14,473
<b>Statement of Cash Flows Data</b>					
Net cash provided by (used in):					
Operating activities from continuing operations	\$ 4,922	\$ 5,930	\$ 2,854	\$ 2,421	\$ 1,169
Financing activities from continuing operations	(933)	(2,516)	(7,048)	(1,005)	1,651
Investing activities from continuing operations	(3,748)	(4,512)	5,239	(1,125)	(3,150)

<sup>(1)</sup> On November 18, 2002, we completed the acquisition of AT&T's broadband business, which has substantially increased the size of our cable operations.

<sup>(2)</sup> In September 2003, we sold our interest in QVC to Liberty Media Corporation. QVC is presented as a discontinued operation for the years ended on and before December 31, 2003 (see Note 5 to our consolidated financial statements).

<sup>(3)</sup> In 2001, we recognized as income a cumulative effect of accounting change upon adoption of SFAS No. 133, "Accounting for Derivative Instruments and Hedging Activities," ("SFAS No. 133").

## BOARD OF DIRECTORS AND CORPORATE EXECUTIVES

## Board of Directors

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President  
The Rockefeller Foundation

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**Director Emeritus**  
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Chairman  
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Executive Vice President and  
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Chief Accounting Officer and  
Controller

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Vice President  
Taxation

**Payne Brown**  
Vice President  
Strategic Initiatives

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**Kamal Dua**  
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General Auditor

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Senior Vice President  
Human Resources,  
Comcast Cable

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Finance

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Vice President and  
Senior Deputy General Counsel

**D'Arcy F. Rudnay**  
Vice President  
Corporate Communications

**Joseph W. Waz, Jr.**  
Vice President  
External Affairs and  
Public Policy

DIVISION EXECUTIVES

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**David A. Scott**  
Executive Vice President  
Administration and Finance

**David N. Watson**  
Executive Vice President  
Operations

**Madison Bond**  
Executive Vice President  
Programming Administration

**David M. Fellows**  
Executive Vice President and  
Chief Technology Officer

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Executive Vice President  
Marketing and  
Product Development

**John Shanz**  
Executive Vice President  
National Engineering and  
Technology Operations

**Stephen E. Silva**  
Executive Vice President  
Digital Development

**Douglas Gaston**  
General Counsel

**Kevin M. Casey**  
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**William Connors**  
President  
Midwest Division

**Michael A. Doyle**  
President  
Eastern Division

**Bradley P. Dusto**  
President  
West Division

**John H. Ridall**  
President  
Southern Division

**Charles W. Thurston**  
President  
Comcast Spotlight

Comcast Content

**Jeff Shell**  
President

**Joseph M. Donnelly**  
Chief Financial Officer

**David T. Cassaro**  
President  
Comcast Network Sales

**Ted Harbert**  
President  
E!/Style Networks

**Gavin Harvey**  
President  
OLN

**David Manougian**  
President  
The Golf Channel

**Diane Robina**  
President  
Emerging Networks

**Rod Shanks**  
President  
AZN

**Neal Tiles**  
President  
G4

**Sandy Wax**  
President  
PBS KIDS Sprout

**Jack Williams**  
President  
Comcast SportsNet

Comcast Interactive Media

**Amy L. Baner**  
President

**Samuel H. Schwartz**  
Executive Vice President  
Strategy and Development

Comcast Spectacor

**Edward M. Snider**  
Chairman

**Fred A. Shabel**  
Vice Chairman

**Peter A. Luukko**  
President  
Comcast Spectacor Ventures

**Sanford Lipstein**  
Executive Vice President  
Finance and  
Chief Financial Officer

**Phillip I. Weinberg**  
Executive Vice President and  
General Counsel

## Shareholder Information

### Corporate Headquarters

City of Philadelphia  
100 North 5th Street  
Philadelphia, PA 19106  
Tel: 215-381-3000  
www.phila.gov

### Stock Listings

Common Stock listed on the Philadelphia Stock Exchange  
NYSE: PHIL  
Class A Preferred Stock (PH A)  
NYSE: PHLA

### Stock Transfer Agent and Registrar

Computershare Investor Services  
P.O. Box 4900  
Philadelphia, PA 19103  
Domestic: 800-541-7700  
Toll-free: 1-800-541-7700  
International: 781-372-3500  
www.computershare.com

### Shareholder Services

For more information on our services, visit our website at [www.phila.gov](http://www.phila.gov) or call our toll-free number at 1-800-541-7700. We are committed to providing you with the best possible service.

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### Investor Relations

On the Web: [www.phila.gov](http://www.phila.gov)

To request a copy of our 2005 Annual Report on Form 10-K, or any other financial reports, or to schedule a meeting with our Investor Relations team, please contact us at [investor@phila.gov](mailto:investor@phila.gov).

By mail: Investor Relations  
100 North 5th Street  
Philadelphia, PA 19106

By phone: 215-381-3000

By fax: Corporate Investor Relations  
100 North 5th Street  
Philadelphia, PA 19106

### 2005 Annual Report on Form 10-K

This Annual Report on Form 10-K contains financial information and other information about the City of Philadelphia. This report is required by the U.S. Securities and Exchange Commission. The report is available on our website at [www.phila.gov](http://www.phila.gov) or by mail. For more information, please contact our Investor Relations team at [investor@phila.gov](mailto:investor@phila.gov).

### Notice of Annual Meeting

100 North 5th Street  
Philadelphia, PA 19106  
Tel: 215-381-3000  
[www.phila.gov](http://www.phila.gov)

### Legal Counsel

James P. & Associates  
Philadelphia, PA

### Independent Registered Public Accounting Firm

Deloitte & Touche LLP  
Philadelphia, PA



comcast

1500 Market Street  
Philadelphia, PA 19102-2143  
215-685-1700  
[www.comcast.com](http://www.comcast.com)

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**FORM 10-K**  
**SECURITIES AND EXCHANGE COMMISSION**  
Washington, D.C. 20549

(Mark One)

**ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

FOR THE FISCAL YEAR ENDED DECEMBER 31, 2005

OR

**TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

FOR THE TRANSITION PERIOD FROM TO

Commission file number 000-50093



**COMCAST CORPORATION**

(Exact name of registrant as specified in its charter)

PENNSYLVANIA  
(State or other jurisdiction of  
incorporation or organization)

27-0000798  
(I.R.S. Employer  
Identification No.)

1500 Market Street, Philadelphia, PA  
(Address of principal executive offices)

19102-2148  
(Zip Code)

Registrant's telephone number, including area code: (215) 665-1700

**SECURITIES REGISTERED PURSUANT TO SECTION 12(b) OF THE ACT:**  
**2.0% Exchangeable Subordinated Debentures due 2029**

**SECURITIES REGISTERED PURSUANT TO SECTION 12(g) OF THE ACT:**  
**Class A Common Stock, \$0.01 par value**  
**Class A Special Common Stock, \$0.01 par value**

Indicate by check mark if the Registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes  No

Indicate by check mark if the Registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes  No

Indicate by check mark whether the Registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the Registrant was required to file such reports) and (2) has been subject to such filing requirements for the past 90 days. Yes  No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of Registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendments to this Form 10-K.

Indicate by check mark whether the Registrant is a large accelerated filer, an accelerated filer, or a non-accelerated filer. See definition of "accelerated filer and large accelerated filer" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer  Accelerated filer  Non-accelerated filer

Indicate by check mark whether the Registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes  No

As of June 30, 2005, the aggregate market value of the Class A Common Stock and Class A Special Common Stock held by non-affiliates of the Registrant was \$41.761 billion and \$24.493 billion, respectively.

As of December 31, 2005, there were 1,363,367,318 shares of Class A Common Stock, 765,807,914 shares of Class A Special Common Stock and 9,444,375 shares of Class B Common Stock outstanding.

**DOCUMENTS INCORPORATED BY REFERENCE**

Part II and IV—Portions of the Registrant's Annual Report to Shareholders for the year ended December 31, 2005.

Part III—The Registrant's definitive Proxy Statement for its Annual Meeting of Shareholders presently scheduled to be held in May 2006.

**COMCAST CORPORATION**  
**2005 ANNUAL REPORT ON FORM 10-K**

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This Annual Report on Form 10-K is for the year ended December 31, 2005. This Annual Report modifies and supersedes documents filed prior to this Annual Report. The U.S. Securities and Exchange Commission ("SEC") allows us to "incorporate by reference" information that we file with them, which means that we can disclose important information to you by referring you directly to those documents. Information incorporated by reference is considered to be part of this Annual Report. In addition, information that we file with the SEC in the future will automatically update and supersede information contained in this Annual Report. Throughout this Annual Report, we refer to Comcast Corporation as "Comcast"; Comcast and its consolidated subsidiaries as "we", "us" and "our"; and Comcast Holdings Corporation as "Comcast Holdings."

## PART I

### ITEM 1. BUSINESS

We are the largest broadband cable provider in the United States and offer a wide variety of consumer entertainment and communication products and services, serving more than 21 million video subscribers, 8 million high-speed Internet subscribers and 1 million phone subscribers. We were incorporated under the laws of Pennsylvania in December 2001. Through our predecessors (including our immediate predecessor Comcast Holdings), we have developed, managed and operated broadband cable systems since 1963.

We manage our operations through two reportable segments, "Cable" and "Content". The Cable segment generates approximately 95% of our consolidated revenues.

Our Cable segment develops, manages and operates our broadband cable systems, including video, high-speed Internet and phone services ("cable services").

Our Content segment includes our six national cable networks: E! Entertainment Television, Style Network, The Golf Channel, OLN, G4 and AZN Television (formerly known as the International Channel).

Our other business interests include Comcast Spectacor, which owns the Philadelphia Flyers, the Philadelphia 76ers and two large multipurpose arenas in Philadelphia, and manages other facilities for sporting events, concerts and other events. Comcast Spectacor and all other businesses not included in our Cable or Content segment are included in "Corporate and Other" activities.

For financial and other information on our segments, refer to *Note 14* to our consolidated financial statements included in our 2005 Annual Report to Shareholders, which is filed as Exhibit 13.1 to, and portions of which are incorporated by reference in, this Annual Report on Form 10-K.

### AVAILABLE INFORMATION AND WEBSITES

Our telephone number is (215) 665-1700 and our principal executive offices are located at 1500 Market Street, Philadelphia, PA 19102-2148. Our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and any amendments to such reports filed with or furnished to the SEC pursuant to Sections 13 (a) or 15 (d) of the Securities Exchange Act of 1934, as amended (the "Exchange Act") are available free of charge on the SEC's website at [www.sec.gov](http://www.sec.gov) and on our website at [www.comcast.com](http://www.comcast.com) as soon as reasonably practical after such reports are electronically filed with the SEC. The information posted on our website is not incorporated into our SEC filings.

## GENERAL DEVELOPMENTS OF OUR BUSINESSES

We operate our businesses in an increasingly competitive, highly regulated and technologically complex environment. During 2005, we continued to focus on our strategy of differentiating our products and services. Our cable business launched a new Internet-Protocol (“IP”)-enabled phone service (Comcast Digital Voice) in 25 markets, accelerated the deployment of Video On Demand (“VOD”) and our advanced services (including digital video recorders (“DVR”) and high-definition television (“HDTV”)), launched a new interactive programming guide for our digital cable services, and invested in our infrastructure systems to accelerate the convergence of our products and services. Our content business expanded its ownership and management of content businesses on a national, regional and local level.

The following are the more significant strategic transactions (and potential transactions) since the beginning of 2005:

- In March 2005, we entered into two joint ventures with Motorola under which we are developing and licensing next-generation programming access security (known as “conditional access”) technology for cable systems and related products. One of the ventures will license such products to equipment manufacturers and other cable companies. The other venture will provide us greater participation in the design and development of conditional access technology for our cable systems. These ventures increase our ability to work with additional equipment vendors.
- In April 2005, we completed a transaction with a group of investors to acquire Metro-Goldwyn-Mayer Inc. (“MGM”). We acquired our 20% interest for approximately \$250 million in cash. This transaction contemplates the inclusion of Sony Pictures and MGM programming in our VOD service.
- In April 2005, we entered into agreements with Time Warner to: (i) jointly acquire substantially all the assets of Adelphia Communications Corporation; (ii) redeem our interest in Time Warner Cable and its subsidiary, Time Warner Entertainment; and (iii) exchange certain cable systems with Time Warner Cable. As a result of these transactions, on a net basis, our cash investment is expected to be \$1.5 billion and we expect to gain approximately 1.7 million video subscribers.
- In August 2005, we acquired the rights to broadcast National Hockey League games on OLN for the next two years, with options to televise additional seasons. OLN’s coverage of NHL games began in October 2005, with some hockey programming also available on VOD and our high-speed Internet service.
- In September 2005, we, together with a group of investors, launched PBS KIDS Sprout, a new 24/7 cable network designed for preschoolers. Some of Sprout’s programming is also available on VOD and our high-speed Internet service.
- In October 2005, we entered into an agreement with Susquehanna Communications, an organization in which we own an approximate 30% interest, to acquire Susquehanna’s cable systems for approximately \$775 million. As a result of this transaction, we expect to add approximately 225,000 video subscribers.
- In November 2005, we entered into a joint venture with Sprint Nextel Corporation (“Sprint”), Time Warner Cable, Cox Communications and Advance/Newhouse Communications to develop communication and entertainment products that combine our cable products and interactive features with wireless technology.

## DESCRIPTION OF OUR BUSINESSES

### Cable Segment

The table below summarizes certain information for our cable operations as of December 31 (homes and subscribers in millions):

	<u>2005</u>	<u>2004</u>	<u>2003</u>	<u>2002<sup>(1)</sup></u>	<u>2001</u>
<b>Cable</b>					
Homes Passed <sup>(2)</sup> .....	41.6	40.8	39.8	39.2	13.9
Subscribers <sup>(3)</sup> .....	21.4	21.5	21.5	21.3	8.5
Penetration .....	51.5%	52.8%	53.9%	54.4%	60.8%
<b>Digital Cable</b>					
“Digital Ready” Subscribers <sup>(4)</sup> .....	21.4	21.5	21.5	21.3	8.4
Subscribers <sup>(5)</sup> .....	9.8	8.7	7.7	6.6	1.7
Penetration .....	45.6%	40.2%	35.7%	31.1%	20.8%
<b>High-Speed Internet</b>					
“Available” Homes <sup>(6)</sup> .....	41.2	40.0	34.7	30.1	10.4
Subscribers .....	8.5	7.0	5.3	3.6	0.9
Penetration .....	20.7%	17.5%	15.2%	12.0%	9.1%
<b>Phone<sup>(7)</sup></b>					
“Available” Homes <sup>(6)</sup> .....	21.4	10.4	9.4	8.7	
Subscribers .....	1.3	1.2	1.3	1.4	
Penetration .....	6.2%	11.7%	13.5%	16.5%	

- (1) On November 18, 2002, we completed the acquisition of AT&T’s broadband business, which we refer to as “Broadband” and “the Broadband acquisition.” The Broadband acquisition substantially increased the size of our cable operations, and direct comparisons of our cable information for periods prior to November 18, 2002 to subsequent periods are not meaningful.
- (2) A home is “passed” if we can connect it to our distribution system without further extending the transmission lines. As described in *Note 3* below, in the case of certain multiple dwelling units (“MDUs”), such as apartment buildings and condominium complexes, homes “passed” are counted on an adjusted basis. “Homes passed” is an estimate based on the best available information.
- (3) Generally, a dwelling or commercial unit with one or more television sets connected to a system counts as one cable subscriber. In the case of some MDUs, we count homes passed and cable subscribers on an Federal Communications Commission (“FCC”) equivalent basis by dividing total revenue received from a contract with an MDU by the standard residential rate where the specific MDU is located.
- (4) A subscriber is “digital ready” if the subscriber is in a market where we have launched our digital cable service.
- (5) A dwelling with one or more digital set-top boxes counts as one digital cable subscriber. On average, as of December 31, 2005, each digital cable subscriber had 1.5 digital set-top boxes.
- (6) A home passed is “available” if we can connect it to our distribution system without further upgrading the transmission lines and if we offer the service in that area. Available homes include circuit-switched and Comcast Digital Voice homes.
- (7) Prior to the Broadband acquisition, the number of phone “available” homes and subscribers was not material.

### Cable Services

We offer a variety of services over our broadband cable systems, including video, high-speed Internet and phone. Over the past several years, we have increased the reliability and capacity of our systems, enabling us to deliver new services, such as digital cable, high-speed Internet and IP-enabled phone.

With our broadband cable system upgrade complete, we are now focusing our capital and technology investments on extending the reach and capacity of our networks, improving network efficiency, increasing the

capacity and cost structure of advanced set-top boxes, developing the features and functionality of interactive services such as gaming, polling and shopping, and integrating wireless phone features with advanced set-top boxes and our high-speed Internet service.

#### *Video Services*

We offer a full range of video services. We tailor our channel offerings for each system serving a particular geographic area according to applicable local and federal regulatory requirements, programming preferences and demographics. Subscribers typically pay us on a monthly basis and generally may discontinue services at any time. Monthly subscription rates and related charges vary according to the type of service selected and the type of equipment the subscriber uses. Our video service offerings include the following:

*Basic cable.* Our basic cable service consists of a limited basic service with access to between 10 and 20 channels of programming and an expanded basic service with access to between 60 and 80 channels of programming. These services generally consist of programming provided by national and local broadcast networks, national and regional cable networks, and governmental and public access programming.

*Digital cable.* Our digital cable service consists of an enhanced cable service and a full digital cable service. Enhanced cable service uses a digital set-top box to deliver between 60 and 80 channels of video programming, multiple music channels, an interactive program guide, and a limited VOD library. Full digital cable service also uses a digital set-top box to deliver over 200 channels of video programming, multiple music channels, an interactive program guide, access to a full VOD library, and multiple versions (varied as to time of broadcast or programming content theme) of any premium channel programming purchased by the subscriber.

*Video On Demand.* Our VOD service, which we refer to as Comcast On Demand, allows our enhanced cable and digital cable subscribers the opportunity to choose from a library of programs, start the programs at whatever time is convenient, and pause, rewind or fast-forward the programs. A substantial portion of our VOD content is available to our digital cable subscribers at no additional charge.

*High-Definition Television.* Our advanced HDTV service provides our digital subscribers with improved, high-resolution picture quality, improved audio quality and a wide-screen, theater-like display. Our HDTV service offers a broad selection of high-definition programming with access to between 10 and 18 high-definition channels including most major broadcast networks, leading national cable networks, premium channels and regional sports networks.

*Digital Video Recorder.* Our advanced DVR service lets digital cable subscribers select, record and store programs and play them at whatever time is convenient. DVR service also provides the ability to pause and rewind "live" television.

*Premium channel programming.* Our premium channel programming service, which includes cable networks such as Home Box Office ("HBO"), Showtime, Starz and Cinemax, generally offers, without commercial interruption, feature motion pictures, live and taped sporting events, concerts and other special features.

*Pay-per-view programming.* Our pay-per-view service permits our cable subscribers to order, for a separate fee, individual feature motion pictures and special event programs, such as professional boxing, professional wrestling and concerts, on an unedited, commercial-free basis.

#### *High-Speed Internet Services*

We offer high-speed Internet access that is constantly connected, with downstream speeds generally from 6Mbps to 8Mbps depending on the service selected. This service also includes our interactive portal, Comcast.net, which provides multiple e-mail addresses, online storage and a variety of proprietary content, and

value-added features and enhancements, designed to take advantage of the speed of the Internet connection we provide.

#### *Phone Services*

We offer Comcast Digital Voice, our IP-enabled phone service that provides unlimited local and domestic long distance calling, including features such as Voice Mail, Caller ID and Call Waiting. As of December 31, 2005, Comcast Digital Voice service was available to 16 million homes in 25 markets. We expect that by the end of 2006 approximately 27 million homes will have access to Comcast Digital Voice.

In some areas, we offer our circuit-switched local phone service. Substantially all this business was obtained in the Broadband acquisition. Subscribers to this service have access to a full array of calling features and third-party long-distance services.

#### *Advertising*

As part of our programming license agreements with cable networks, we often receive an allocation of scheduled advertising time which we may sell to local, regional and national advertisers.

We also coordinate the advertising sales efforts of other cable operators in some markets. We have also formed and operate or participate in advertising interconnects, which establish a physical, direct link among multiple cable systems and provide for the sale of regional and national advertising across larger geographic areas than could be provided by a single cable operator.

#### *Regional Sports and News Networks*

Our regional sports and news networks include Comcast SportsNet (Philadelphia), Comcast SportsNet Mid-Atlantic (Baltimore/Washington), Cable Sports Southeast, CN8—The Comcast Network, Comcast SportsNet Chicago and Comcast SportsNet West (Sacramento). These networks earn revenue through the sale of advertising time and from monthly per subscriber license fees paid by cable system operators and satellite television companies.

#### *Other Revenue Sources*

We also generate revenues from installation services, commissions from third-party electronic retailing and from other services, such as providing businesses with Internet connectivity and networked business applications.

#### *Programming*

We license from cable networks the programming we offer to our video subscribers, generally on a multi-year basis, and for which we generally pay a monthly fee on a per video subscriber, per channel, basis. We attempt to secure long-term licenses with volume discounts and/or marketing support and incentives.

Our programming costs are increased by the growth in the number of video subscribers, the increase in the number of channels we provide and increases in license fees. We expect our programming costs to continue to be our largest single expense item, and to increase, in the future. In recent years, the cable and satellite television industries have experienced a substantial increase in the cost of programming, particularly sports programming. We anticipate that these increases may be mitigated, to some extent, by volume discounts.

#### *Customer and Technical Service*

We service our customers through local, regional and national call and technical centers. Generally, our call centers provide 24/7 call answering capability, telemarketing and other services. Our technical services function



performs various tasks, including installations, transmission and distribution plant maintenance, plant upgrades and activities related to customer service.

### ***Technology Development***

Historically, we have relied on third-party hardware and software vendors for many of the technologies needed for the operation of our businesses, the addition of new features to existing services and the development and commercialization of new service offerings. In recent years, we have begun developing strategically important software and technologies internally and integrating third-party software to our specifications. We have also now arranged for long-term access rights to national fiber-based networks that we actively manage to interconnect our local and regional distribution systems and facilitate the efficient delivery of our broadband services. We expect these efforts to continue and expand in the future. These efforts require greater initial expenditures than would be required if we continued to purchase or license these products and services from third parties.

### ***Sales and Marketing***

Our sales efforts are primarily directed toward generating incremental revenues and increasing the number of subscribers we serve. We offer our products and services through direct customer contact through our call centers, door-to-door selling, direct mail advertising, cable television advertising, local media advertising, telemarketing and retail outlets.

### ***Competition***

We operate our businesses in an increasingly competitive environment. Our broadband cable systems compete with a number of different companies that offer a broad range of services through increasingly diverse means. In addition, we operate in a technologically complex environment and new technologies may further increase the number of competitors we face for our video, high-speed Internet and phone services, and advertising. We expect advances in communications technology to continue in the future. We are unable to predict what effects, if any, such future developments will have on our businesses and operations.

### ***Video Services***

We compete with a number of different sources that provide news, information and entertainment programming to consumers, including:

- program distributors that use direct broadcast satellite, or DBS, systems that transmit satellite signals containing video programming, data and other information to receiving dishes of varying sizes located on the subscriber's premises,
- incumbent local exchange carriers ("ILECs") are building wireline fiber-optic networks to provide video services in substantial portions of their service areas (and have begun to offer this service in limited areas), in addition to marketing DBS service in certain areas,
- other wireline communications providers who build and operate wireline communications systems in the same communities that we serve, including those operating as franchised cable operators or under an alternative regulatory scheme known as Open Video Systems, or OVS,
- online services, including Internet video streaming and distribution of television shows (and portions thereof) and movies,
- satellite master antenna television systems, commonly known as SMATVs, that generally serve condominiums, apartment and office complexes, and residential developments,
- local television broadcast stations that provide free over-the-air programming which can be received using an antenna and a television set,

- digital subscription services transmitted over local television broadcast stations that can be received by a special set-top box,
- video stores and home video products,
- movie theaters,
- newspapers, magazines and bookstores,
- live concerts and sporting events, and
- wireless and other emerging technologies in the areas of distributing and viewing video programming.

In recent years, Congress has enacted legislation and the FCC has adopted regulatory policies intended to provide a favorable operating environment for existing competitors and for potential new competitors to our cable systems. The FCC adopted rules favoring new investment by ILECs in fiber-optic networks capable of distributing video programming and rules allocating and auctioning spectrum for new wireless services that may compete with our video service offerings. Furthermore, Congress, the FCC and various state governments are considering measures that would reduce or eliminate local franchising requirements for new entrants into the multichannel video marketplace, including the ILECs. The State of Texas has enacted legislation to provide a statewide franchise to new entrants, thus eliminating the requirement that such entrants obtain franchises from individual local franchising authorities. In order to compete effectively, we strive to provide, at a reasonable price to subscribers, new products and services, superior technical performance and customer service, and a greater variety of video programming.

*DBS Systems.* According to recent government and industry reports, conventional, medium- and high-power satellites currently provide video programming to over 27 million subscribers in the United States. DBS providers with high-power satellites typically offer more than 300 channels of programming, including programming services substantially similar to those our cable systems provide. Two companies, DIRECTV and EchoStar, provide service to substantially all of these DBS subscribers.

High-power DBS service can be received throughout the continental United States through small rooftop or side-mounted outside antennas. DBS systems use video compression technology to increase channel capacity and digital technology to improve the quality and quantity of the signals transmitted to their subscribers. Our digital cable service is competitive with the programming, channel capacity and quality of signals delivered to subscribers by DBS systems.

Federal legislation establishes, among other things, a compulsory copyright license that permits DBS systems to retransmit local broadcast television signals to subscribers who reside in the local television station's market. These companies are currently transmitting local broadcast signals in most markets that we serve. Additionally, federal law generally provides DBS systems with access to all cable-affiliated video programming services delivered by satellite. As a result, DBS providers are competitive with cable system operators like us because they offer programming that closely resembles what we offer. These DBS providers are attempting to expand their service offerings to include, among other things, high-speed Internet service, and have entered into marketing arrangements in which their service is promoted and sold by ILECs.

*ILECs.* ILECs, in particular AT&T and Verizon, are building fiber-optic networks to provide video services in substantial portions of their service areas (and have begun to offer this service in limited areas), in addition to entering into joint marketing arrangements with DBS providers in certain areas. The ILECs, have taken various positions on the question of whether they need a local cable television franchise to provide video services, including applying for local franchises, seeking state-level regulation only, and claiming that video services can be provided without a cable television franchise.

*Other Wireline Providers.* We operate our cable systems pursuant to non-exclusive franchises that are issued by a local community governing body, such as a city council or county board of supervisors or, in some

cases, by a state regulatory agency. Federal law prohibits franchising authorities from unreasonably denying requests for additional franchises, and it permits franchising authorities to operate cable systems. Various companies, including those that traditionally have not provided cable services and have substantial financial resources (such as public utilities, including those that own some of the poles to which our cables are attached), have obtained cable franchises and provide competing communications services. These and other wireline communications systems offer video and other communications services in various areas where we hold franchises. We anticipate that facilities-based competitors will emerge in other franchise areas that we serve.

SMATV. Our cable systems also compete for subscribers with SMATV systems. SMATV system operators typically are not subject to regulation like local franchised cable system operators. SMATV systems offer subscribers both improved reception of local television stations and many of the cable networks offered by our cable systems. In addition, some SMATV operators are offering packages of phone, data and video services to residential and commercial developments. SMATV system operators often enter into exclusive service agreements with building owners or homeowners' associations, although some states have enacted laws to provide cable systems access to MDUs.

Broadcast Subscription Services. Local television broadcasters in selected markets sell digital subscription services. These services typically contain a limited number of cable programming services at a price of approximately \$20 per month. Several leading television broadcast station ownership groups have announced that they are providing funding for U.S. Digital Television, Inc., an entity that currently offers these digital subscription services in several markets as a low cost alternative to cable television service. Many other broadcasters are considering similar plans.

#### *High-Speed Internet Services*

Substantially all of our cable systems offer high-speed Internet service within their service areas. These systems compete with a number of other companies, many of whom have substantial resources, including:

- ILECs and other telephone companies,
- Internet service providers ("ISPs"), such as America Online, Earthlink and Microsoft,
- wireless telephone companies and other providers of wireless Internet services, and
- power companies.

The deployment of digital subscriber line ("DSL"), technology allows Internet access to be provided to subscribers over telephone lines at data transmission speeds substantially greater than that of conventional modems. The ILECs and other companies offer DSL service, and several of them have increased transmission speeds, lowered prices or created bundled service packages. In addition, some ILECs are constructing fiber-optic networks that allow them to provide data transmission speeds that exceed those that can be provided with DSL technology. The FCC has reduced the obligations of ILECs to offer their broadband facilities on a wholesale or retail basis to competitors, and it has freed their DSL services of common carrier regulation.

Various wireless telephone companies are offering wireless high-speed Internet services. In addition, in a growing number of commercial areas, such as retail malls, restaurants and airports, wireless "WiFi" Internet access capability is available. Numerous local governments are also considering or actively pursuing publicly-subsidized WiFi Internet access networks. The availability of these alternatives may adversely affect demand for our high-speed Internet services.

A number of cable operators have reached agreements to provide unaffiliated ISPs access to their cable systems in the absence of regulatory requirements. We reached access agreements with several national and regional third-party ISPs, although to date these ISPs have made limited use of their rights. We cannot provide any assurance, however, that regulatory authorities will not impose so-called "open access" or similar

requirements on us as part of an industry-wide requirement. These requirements could adversely affect our results of operations.

We expect competition for high-speed Internet service subscribers to remain intense, with companies competing on service availability, price, transmission speed and bundled services.

*Phone Services*

Our circuit-switched local phone service and Comcast Digital Voice service compete against ILECs, wireless telephone service providers, competitive local exchange carriers (“CLECs”) and other Voice-over-IP (“VoIP”) service providers. The ILECs have substantial capital and other resources, longstanding customer relationships, and extensive existing facilities and network rights-of-way. A few CLECs also have existing local networks and significant financial resources.

We anticipate that by the end of 2006 approximately 27 million homes will access to Comcast Digital Voice. We expect to migrate our circuit-switched phone customers to our Comcast Digital Voice service over the next several years. The competitive nature of the telephone business may negatively affect demand for and pricing of our phone services.

*Advertising*

Our cable systems compete against a wide variety of media for sales of advertising, including local television broadcast stations, national television broadcast networks, national and regional cable television networks, local radio broadcast stations, local and regional newspapers, magazines, and the Internet. Continuing competition from these media outlets and the continued expansion of new media outlets offering advertising opportunities may result in a dilution of the portion of advertising expenditures our cable systems currently receive.

**Content Segment**

The table below presents information as of December 31, 2005 relating to our six national cable networks:

<u>Network</u>	<u>Economic Ownership Percentage</u>	<u>Approximate U.S. Subscribers (in millions)</u>	<u>Description</u>
E! Entertainment Television . . .	60.5%	79.3	Pop culture entertainment-related programming
Style Network . . . . .	60.5	35.2	Lifestyle-related programming
The Golf Channel . . . . .	99.9	57.0	Golf-related programming
OLN . . . . .	100.0	54.9	Sports and leisure programming
G4 . . . . .	83.5	50.6	Gamer lifestyle programming
AZN . . . . .	100.0	13.7	Asian American programming

Revenue for our networks are principally generated from the sale of advertising and from monthly per subscriber license fees paid by cable system operators and satellite television companies that have typically entered into multi-year contracts to distribute our networks. To obtain long-term contracts with distributors, we may make cash payments, provide an initial period in which license fee payments are waived or do both. License fee revenues are reported net of the cost of incentives granted in exchange for multi-year license contracts. Our networks and their distributors engage in ongoing marketing and promotional activities to retain existing subscribers and acquire new subscribers. Although we believe prospects of continued carriage and marketing of our networks by their larger distributors are generally good, the loss of one or more of them as distributors could have a material adverse effect on the affected network.

### ***Competition***

Our networks compete with other television programming services for distribution and programming. In addition, our networks compete with all other forms of programming provided to viewers (including broadcast networks, local broadcast stations, pay and other cable networks, home video, pay-per-view and VOD services and online activities), for viewers' attention and audience share. Finally, our networks compete with other national and local media (including other television networks, television stations, radio stations, newspapers, Internet sites and direct mail) for advertising revenues.

### **Other Businesses**

In addition to Comcast Spectacor, we also own non-controlling interests in various programming entities, including iN DEMAND, TV One, MGM, PBS KIDS Sprout, SportsChannel New England, New England Cable News, Pittsburgh Cable News Channel, Music Choice and Sterling Entertainment.

## **LEGISLATION AND REGULATION**

Our video and phone services are subject to numerous requirements, prohibitions and limitations imposed by various federal and state laws and regulations, local ordinances and our franchise agreements. Our high-speed Internet service, while not currently subject to significant regulation, may be subject to such regulation in the future. Our content businesses are, with limited exceptions, not subject to direct governmental regulation. Laws and regulations affect the prices we can charge for some services, such as limited basic cable service and associated customer-premises equipment; the costs we incur (for example, for attaching our wires to poles owned by utility companies); the relationships we establish with our suppliers, subscribers and competitors; and many other aspects of our businesses.

The most significant federal law affecting our cable business is the Communications Act of 1934, as amended. The provisions of the Communications Act and the manner in which the FCC, state and local authorities, and the courts implement and interpret those provisions affect our ability to develop and execute business plans, our ability to raise capital and the competitive dynamics between and among different sectors of the communications and entertainment industries in which we operate. The FCC also has the authority to enforce its regulations through the imposition of substantial fines, the issuance of cease-and-desist orders and the imposition of other administrative sanctions, such as the revocation of FCC licenses needed to operate some of the transmission facilities we use in connection with our cable business.

We believe we are currently in substantial compliance with all applicable statutory and regulatory requirements imposed by, or under, the Communications Act, but we caution that the precise requirements of the law are not always clear. Moreover, many laws and regulations can be interpreted in after-the-fact enforcement proceedings or private-party litigation in a manner that is inconsistent with the judgments we have made. We also note that regulators at all levels of government frequently consider changing, and sometimes do change, existing rules or interpretations of existing rules, or prescribe new ones. Judicial decisions often alter the regulatory framework in ways that are inconsistent with regulator, business and investor expectations. In addition, our businesses can be significantly affected by the enactment of new legislation. Congress considers new legislative requirements potentially affecting our businesses virtually every year, and a significant initiative to update the Communications Act began in 2005 and is expected to continue in 2006. We always face the risk that Congress or one or more states will approve legislation significantly affecting our businesses. In particular, we could be materially disadvantaged if we are subject to new laws or regulations that do not equally affect our satellite, wireline and wireless competitors, or if our competitors are relieved of legal obligations that continue to apply to us or that currently apply only to them.

A major objective of Congress and the FCC has been to increase competition in all communications services, including those central to our business. For example, Congress has removed barriers to ILECs offering

video services in their local service areas, and the FCC has taken additional steps that are encouraging ILECs to expand their investment in fiber-optic networks, which makes it easier for those companies to deliver video, high-speed Internet and other services. The FCC has also assigned spectrum licenses for MVDDS, a wireless service providing multichannel video programming. In addition, the FCC is continuing to adopt measures to increase the capacity for satellite-delivered services and has largely cleared the way for electric utilities to use their power lines to provide video and high-speed Internet services. Our businesses could be affected by additional competitors that enter the video or high-speed Internet businesses as a result of these and similar efforts by Congress or the FCC. In particular, we could be materially disadvantaged if we remain subject to legal constraints that do not apply equally to these new competitors, such as if ILECS that provide video programming services are not subject to the local franchising requirements and other requirements that apply to us. For example, the State of Texas enacted legislation in 2005 providing statewide franchises for new video service providers on terms less burdensome than our existing local franchise requirements. Other states where we have significant operations are considering similar legislation.

The following paragraphs describe existing and potential future legal and regulatory requirements that are the most significant to our businesses today.

#### **Time Warner Divestiture**

The FCC approved the Broadband acquisition in November 2002, subject to various conditions. The most significant were a requirement for the divestiture of our interests in Time Warner and its cable affiliates by November 2007 (subject to a six-month extension), a requirement that the interests be placed in trust pending divestiture, and safeguards that limit our involvement in Time Warner Cable's programming-related activities pending divestiture. Complying with these conditions has limited and will continue to limit our flexibility as to the timing and nature of a sale or other disposition of the interests and, in the interim, may constrain our business dealings with Time Warner. We have fully complied with these conditions and are committed to meeting our obligations under the FCC's order.

#### **Adelphia Acquisition**

We have filed a joint application with Time Warner and Adelphia seeking the FCC's approval of the acquisition of the Adelphia cable systems. The proposed Adelphia transactions also would accomplish the divestiture of our part of the Time Warner Cable interests as required by the FCC. The FCC is expected to make its decision by the end of the first half of 2006. We cannot predict whether the FCC will approve the application or whether, if it does approve the application, it will do so subject to unfavorable conditions.

#### **Ownership Limits**

The FCC is considering imposing "horizontal ownership limits" that would limit the percentage of multichannel video subscribers that any single cable provider could serve nationwide. A federal appellate court struck down the previous 30% limit, and the FCC is now considering this issue anew. We serve approximately 28% of multichannel video subscribers and will still be under the previous 30% limit after the completion of pending acquisitions. If the FCC were to reinstate ownership limits similar to those previously imposed, such limits would restrict our ability to take advantage of future growth opportunities. The FCC is also assessing whether it should reinstate "vertical ownership limits" on the number of affiliated programming services a cable operator may carry on its cable systems (the previous limit of 40% of the first 75 channels was also invalidated by the federal appellate court). New vertical limits could affect our content business. In addition, the FCC is considering revisions to its ownership attribution rules that would affect which cable subscribers are counted under any horizontal ownership limit and which programming interests are counted for purposes of any vertical ownership limit. It is uncertain when the FCC will rule on these issues.

## **Pricing and Packaging**

The Communications Act and the FCC's regulations and policies limit the prices that cable systems may charge for limited basic service, equipment and installation. These rules do not apply to cable systems that are determined by the FCC to be "subject to effective competition," but these determinations have thus far been made for only a small number of our cable systems. Failure to comply with these rate rules could result in rate reductions and refunds for subscribers. From time to time, Congress and the FCC consider imposing new pricing or packaging regulations on the cable industry, including proposals to require cable operators to offer programming services on an a la carte or themed-tier basis instead of or in addition to the current packaged offerings. Our video service offerings currently include various service tiers (with availability varying depending on level of service, demographics and other factors), such as sports, Hispanic and our recently announced family tier. We cannot now predict whether or when Congress, the FCC or any other regulatory agency may adopt any new requirements with respect to the pricing or packaging of video services and how such requirements, if adopted, would affect our cable and content businesses. Also, various competitors are trying to persuade the FCC and the Justice Department to limit our ability to respond to increased competition through offers, promotions or other discounts that aim to retain existing subscribers or regain those we have lost. We believe our competitive pricing practices are lawful and pro-competitive. If we cannot make individualized offers to subscribers who would otherwise choose a different provider, our subscriber attrition may increase, or our overall prices may need to be reduced, or both.

## **Must-Carry/Retransmission Consent**

Cable companies are currently subject to a requirement that they carry, without compensation, the programming transmitted by most commercial and non-commercial local television stations ("must-carry"). Alternatively, local television stations may insist that a cable operator negotiate for "retransmission consent," which may enable popular stations to demand significant concessions (such as the carriage of and payment for other programming networks) as a condition of our ability to transmit the TV broadcast signals that cable subscribers expect to receive. As part of the transition from analog to digital broadcast transmission, Congress and the FCC gave each local broadcast station a digital channel, capable of carrying multiple programming streams, in addition to its current analog channel. In February 2005, the FCC voted to reject proposals to require cable companies to: (1) simultaneously carry both the analog and digital signals of each broadcaster during the transition (cable companies must only carry the broadcaster's analog signal during the transition or, if the broadcaster has already returned its analog channel, the broadcaster's digital signal); and (2) carry the multiple program streams that can be transmitted in a broadcaster's digital signal (cable companies must only carry the primary digital video stream of the broadcaster after the broadcaster has returned its analog channel). Although the FCC has thus far ruled against such expanded must-carry requirements, we cannot predict whether such requirements may result from additional FCC proceedings, judicial proceedings or legislation. In general, if such expanded carriage requirements were adopted, we would have less freedom to allocate the usable spectrum of our cable plant to provide the services that we believe will be of greatest interest to our subscribers. This could diminish our ability to attract and retain subscribers, particularly if such requirements are not imposed on our competitors.

## **Program Access**

The Communications Act and the FCC's "program access" rules generally prevent satellite video programmers affiliated with cable operators from favoring cable operators over competing multichannel video distributors, such as DBS, and limit the ability of such programmers to offer exclusive programming arrangements to cable operators. The FCC has extended the exclusivity restrictions through October 2007. The FCC has concluded that the program access rules generally do not apply to programming services, such as Comcast SportsNet (Philadelphia), that are delivered terrestrially. However, the FCC has indicated that it may reconsider how it regulates cable operators with regional sports programming interests, and there has been some Congressional interest in extending the exclusivity prohibition to terrestrially-delivered programming. Any

decision by the FCC or Congress to apply new program access or program carriage regulations to cable operators could have an adverse impact on our businesses.

#### **Cable Equipment Issues**

The FCC has adopted regulations aimed at promoting the retail availability of set-top boxes and other equipment that can be used to receive digital cable services. Currently, most cable customers access such services using a leased set-top box that integrates cable access security with other operating functions. Effective July 2007, cable operators must cease placing into service set-top boxes with integrated security. At that time, newly deployed leased set-top boxes and devices purchased at retail must rely on a separate piece of equipment, known as a CableCARD, to provide access to digital cable services. We have urged elimination of the ban on integrated set-top boxes on the grounds that it unfairly singles out cable operators for regulation (the ban does not apply to DBS), limits consumer choice, increases the cost of set-top box equipment, and slows the deployment of digital cable services. Thus far, the FCC has rejected these arguments, indicating in a March 2005 decision that it would not revisit the issue of whether to eliminate the ban on integrated set-top boxes. Certain cable companies have challenged the FCC's decision in federal court. It is uncertain how the court will rule on this appeal. The FCC also indicated in its March 2005 decision that it might consider further deferrals of the July 2007 ban on integrated set-top boxes to the extent the cable industry makes adequate progress on software-based security solutions that can be downloaded to leased set-top boxes as well as retail equipment. If the FCC does not extend the deadline again and does not waive the rules for low-cost, limited-function set-top boxes, we will be forced to incur added costs in purchasing CableCARD-enabled set-top boxes and the associated CableCARDS.

In addition, the FCC has adopted rules to implement an agreement between the cable and consumer electronics industries aimed at promoting the manufacture of "plug-and-play" TV sets that can connect directly to the cable network and receive one-way, analog and digital cable services without the need for a set-top box. We believe that we are substantially in compliance with these one-way plug-and-play requirements. Also, the cable, consumer electronics and other industries are currently negotiating an agreement for two-way, interactive plug-and-play equipment. The pace of these negotiations is affected by a host of complex technical, engineering, business, copy protection, licensing and other issues. Some in Congress and at the FCC are urging that the parties complete the negotiations by a specific date or risk having the government impose deadlines on the parties or adopt rules even in the absence of an industry agreement. It is unclear how this process will unfold and how it will ultimately affect our cable business and our efforts to sell cable services at retail outlets.

#### **Franchise Matters**

Cable operators generally operate their cable systems pursuant to non-exclusive franchises granted by local or state franchising authorities. While the terms and conditions of franchises vary materially from jurisdiction to jurisdiction, these franchises typically last for a fixed term, obligate the franchisee to pay franchise fees and meet service quality, customer service and other requirements, and are terminable if the franchisee fails to comply with material provisions. The Communications Act includes provisions governing the franchising process, including, among other things, renewal procedures designed to protect incumbent franchisees against arbitrary denials of renewal. We anticipate that our future franchise renewal prospects generally will be favorable.

Congress, the FCC and various state governments are considering measures that would lessen or eliminate franchising requirements for new entrants into the multichannel video marketplace, including the ILECs. The State of Texas, for example, has enacted legislation to provide a statewide franchise to new entrants, thus relieving them of the obligation to seek franchises in individual local service areas. That law is now being challenged in court, but it is uncertain how the court will rule on the matter. Other states are now considering similar legislation. Likewise, Congress and the FCC are considering proposals to eliminate or streamline local franchising requirements for the ILECs and other new entrants. Congress is reviewing proposals to replace the local franchising process with a national process, which, if enacted, could benefit the ILECs. In addition, the FCC has launched a rulemaking intended to ease the franchising process for new entrants. We could be



materially disadvantaged if proposals to change franchising rules for our competitors, but not for cable operators, are approved.

#### **PEG/Leased Access**

The Communications Act permits franchising authorities to require cable operators to set aside the use of channels for public, educational and governmental (PEG) access programming. We provide substantial channel capacity and financial support for PEG programming. The Communications Act also requires a cable system with 36 or more channels to make available a portion of its channel capacity for commercial leased access by third parties to provide programming that may compete with services offered directly by the cable operator. To date, we have generally not been required to devote significant channel capacity to leased access.

#### **State and Local Taxes**

Some states and localities are considering imposing new taxes, including sales taxes, on the services we offer. We cannot predict at this time whether such taxes will be enacted or what impact they might have on our business.

#### **High-Speed Internet Service**

Historically, the ILECs have been required to share their high-speed Internet facilities (most commonly DSL) with unaffiliated third-party ISPs, while cable companies generally faced no similar regulatory requirement for their cable high-speed Internet service. Some local governments and various competitors had advocated the imposition of regulatory requirements on how cable operators deal with third-party ISPs. Only a few local governments actually imposed such requirements, and, in each case, the courts have invalidated them. In 2002, the FCC formally classified cable high-speed Internet service as an "interstate information service," rather than a "telecommunications service." Such classification meant that traditional telecommunications regulations would not apply to cable high-speed Internet service. That FCC decision was appealed, and, in June 2005, the U.S. Supreme Court upheld the FCC's classification of cable high-speed Internet service as an interstate information service. In response to the Supreme Court's decision, the FCC adopted rules in August 2005 according similar deregulatory treatment to the high-speed Internet offerings of the ILECs. Under the FCC's ruling, the ILECs will no longer be required to share their high-speed Internet facilities with third-party ISPs after a one-year phase-out period. It is uncertain what impact the FCC's ruling will have on the competitive position of our cable high-speed Internet business.

Congress and the FCC are considering proposals to establish the rights of end users of high-speed Internet services and regulate or restrict commercial agreements between providers of high-speed Internet services and content providers. These proposals come under the collective name of "network neutrality." The FCC issued a non-binding policy statement in August 2005 establishing four basic principles to guide its ongoing policymaking activities regarding high-speed Internet and other broadband-related services. Those principles state that: (1) consumers are entitled to access the lawful Internet content of their choice; (2) consumers are entitled to run applications and services of their choice, subject to the needs of law enforcement; (3) consumers are entitled to connect their choice of legal devices that do not harm the network; and (4) consumers are entitled to competition among network providers, application and service providers and content providers. The FCC required Verizon and AT&T to abide by these principles for a two-year period as a condition to the Verizon/MCI and AT&T/SBC mergers. Congress is also considering legislation to codify these or related principles, subject to various conditions. Any such rules or statutes could limit the ability of high-speed Internet providers to manage their networks (including their use for other services), to obtain value for use of their networks, or to respond to competitive conditions. We cannot predict whether such rules or statutes will be approved.

The FCC has also imposed certain regulatory requirements on providers of high-speed Internet service. In August 2005, the FCC adopted rules generally requiring such providers (including cable operators) to comply

with the Communications Assistance for Law Enforcement Act ("CALEA"). Under these new rules, high-speed Internet service providers must implement certain network capabilities to assist law enforcement in conducting surveillance of persons suspected of criminal activity. The rules are scheduled to go into effect in 2007, but are now subject to court challenge. We anticipate that our high-speed Internet services will comply with these new requirements.

Congress and the FCC are considering additional proposals regarding the regulation of high-speed Internet services. For example, Congress is considering legislative proposals that would require high-speed Internet service providers to register with the FCC and comply with various rules, including customer privacy, consumer service standards and access for persons with disabilities. Likewise, the FCC has initiated rulemakings on whether it should develop a framework for consumer protection requirements for all providers of high-speed Internet services, regardless of the underlying technology, and also whether local and state authorities should be permitted to do so. It is uncertain what, if any, laws or regulations Congress or the FCC might ultimately impose on cable high-speed Internet or competing services. In addition, certain local governments are pursuing regulation of high-speed Internet services. For example, one local franchise authority has already imposed customer service requirements and made them a condition of our cable franchise agreement, and other local governments may attempt to do so. Also, a few franchising authorities have sued us seeking payment of franchise fees on high-speed Internet service revenues.

#### Internet Regulation

Congress and federal regulators have adopted a wide range of measures affecting Internet use, including, for example, consumer privacy, copyright protection, defamation liability, taxation, obscenity and unsolicited commercial e-mail. Further, state and local governmental organizations have also adopted Internet-related regulations. These various governmental bodies are also considering additional regulations in these and other areas, such as pricing, service and product quality, and intellectual property ownership. The adoption of new laws or the adaptation of existing laws to the Internet could have a material adverse effect on our high-speed Internet service.

#### Phone Service

Our circuit-switched phone services are subject to federal, state and local regulation. In general, the Communications Act imposes interconnection requirements and universal service contribution obligations on all telecommunications service providers, including those that provide circuit-switched phone services over cable facilities, and more significant regulations on ILECs. These common carrier rules, however, are being re-evaluated at the FCC and in Congress. The FCC has already adopted measures relieving the ILECs of certain obligations to make elements of their networks available to competitors at cost-based rates. The FCC has also initiated rulemakings on intercarrier compensation, universal service and other matters that, in the aggregate, could significantly change the rules that apply to telephone competition, including the relationship between wireless and wireline providers, long-distance and local providers, and incumbents and new entrants. It is unclear how those proceedings (and the litigation and implementation proceedings that are already underway as a product of one of these rulemaking proceedings) will affect our circuit-switched phone services.

The FCC has initiated a rulemaking to consider whether and how to regulate VoIP and other IP-enabled services. Among other things, the FCC will determine whether and how certain types of common carrier regulations should apply to VoIP services, including intercarrier compensation, universal service and the obligation to provide persons with disabilities with access to these services. The FCC has already adopted a number of orders addressing specific regulatory issues relating to VoIP. In May 2005, for example, the FCC adopted rules requiring VoIP service providers having certain characteristics to furnish enhanced 911 ("E911") capabilities as a standard feature of their services. Additionally, VoIP service providers must advise their customers of the circumstances under which E911 service may not be available and comply with other E911-related requirements specified by the FCC. We believe Comcast Digital Voice service complies with these new

requirements. Likewise, in August 2005, the FCC imposed CALEA-related requirements on VoIP service providers. We anticipate that Comcast Digital Voice will comply with the new CALEA rules when they go into effect in 2007. Congress is also considering legislation that, if enacted, would impact the regulatory obligations of VoIP service providers. We cannot predict whether Congress will approve such legislation.

The FCC and Congress are also considering measures relating to how VoIP service interconnects with the phone networks of the ILECs. In the circuit-switched environment, ILECs have a clear obligation to negotiate interconnection agreements with CLECs. However, it is uncertain what interconnection obligations the ILECs have with respect to VoIP service providers that do not obtain CLEC status. The FCC has yet to classify VoIP service for regulatory purposes. While classification of VoIP as an information service would be beneficial to VoIP providers (including Comcast Digital Voice), since legacy telecommunications service regulations presumably would not apply, such classification might lead ILECs to resist interconnecting directly with VoIP providers. In light of these concerns, VoIP service providers typically either secure CLEC authorization, or they obtain indirect interconnection to ILEC networks by contracting with existing CLECs, whose right to deal with the ILECs is clear under the Communications Act and FCC regulations. Comcast has arranged for such interconnection rights through our own CLECs. The FCC is considering this issue in its rulemaking on IP-enabled services, and Congress is considering the issue as well. It is uncertain whether and when the FCC or Congress will adopt further rules in this area and how such rules would affect our Comcast Digital Voice service.

In addition, several states have attempted to impose common carrier regulation on VoIP services. However, the FCC adopted an order in November 2004 declaring that one particular VoIP service is not subject to state public utility regulation. Further, the FCC indicated that other types of VoIP services, such as those offered by cable companies, would not be subject to state public utility regulation if they: require a broadband connection from the user's location; require the use of IP-compatible customer premises equipment; and include a suite of integrated capabilities and features, able to be invoked sequentially or simultaneously, that allows customers to manage personal communications dynamically. It is unclear how this ruling and other VoIP service-related proceedings at the federal and state levels, and related judicial proceedings, might affect our Comcast Digital Voice service.

#### **Other Issues**

There are a number of other regulatory matters under review by Congress, the FCC and other federal agencies that could affect our cable and content businesses.

**Tier Buy Through.** The Communications Act generally requires cable operators to allow subscribers to purchase premium or pay-per-view services without the necessity of subscribing to any tier of service, other than the limited basic service tier. The applicability of this rule in certain situations remains unclear, and adverse decisions by the FCC on this issue could affect our pricing and packaging of services.

**Content Regulation.** The Communications Act prohibits the transmission of obscene programming over cable systems. Additionally, some parties have proposed that new laws or rules regulating indecent and violent programming be imposed on cable operators. It is uncertain whether and when any such laws will be enacted or regulations will be adopted and, if enacted or adopted, what impact such laws or regulations would have on our cable and content businesses.

**MDU Access.** The FCC has adopted rules intended to make it easier for multichannel video service providers to compete with established cable operators in serving MDUs.

**Pole Attachments.** The Communications Act requires that telephone companies and other utilities (other than those owned by municipalities or cooperatives) provide cable systems with nondiscriminatory access to any pole or right-of-way controlled by the utility. The rates that utilities may charge for such access are regulated by the FCC or, alternatively, by states that certify to the FCC that they regulate such rates (several states in which we have cable systems have so certified). There is always the possibility that the FCC or a state could increase

the pole attachment rate paid by cable operators. Additionally, higher pole attachment rates apply to pole attachments that are subject to the FCC's telecommunications services pole rates. The applicability of and method for calculating those rates for cable systems over which various phone services are transmitted remain unclear, and there is a risk that we will face higher costs as our phone business expands.

**EAS and Closed Captioning.** The FCC has adopted rules requiring cable operators to deliver Emergency Alert System ("EAS") warnings via digital cable services, rather than just analog services. This change imposes new equipment costs on cable operators. The FCC has also adopted rules imposing closed captioning requirements on cable operators, broadcasters, programmers and others. Advocates for the hearing impaired have urged the FCC to toughen its rules on closed captioning compliance and enforcement. The FCC has initiated a rulemaking to consider these and other proposals. If adopted, such expanded closed captioning requirements would impose further regulatory burdens on cable operators and programmers. The FCC has not indicated whether or when it will adopt such rules.

**Children's Television.** The FCC has adopted rules that, among other things, limit the amount of commercials which may be aired in certain children's programming to 10.5 minutes per hour on weekends and 12 minutes per hour on weekdays and restrict the use of program characters or show hosts to sell products in commercials during or adjacent to children's programming. The FCC adopted additional rules in 2004 that would also restrict the display of Internet website addresses in children's programming. Those additional rules have been stayed pending further rulemaking, and it is uncertain what rules the FCC will ultimately establish and how such rules will affect our cable and content businesses.

**Privacy Regulation.** The Communications Act generally restricts the nonconsensual collection and disclosure of subscribers' personal information by cable operators. There are possible interpretations of the Communications Act that could severely limit the ability of service providers to collect and use personal information for commercial purposes. Congress is now considering legislation that would extend these and other privacy requirements to high-speed Internet service and VoIP providers. Further constraints could also be imposed if and to the extent that state or local authorities establish their own privacy standards. In addition, the FCC, the Federal Trade Commission and many states have adopted rules that limit the telemarketing practices of cable operators and other commercial entities.

**Copyright Regulation.** In exchange for filing certain reports and contributing a percentage of their revenue to a federal copyright royalty pool, cable operators can obtain blanket permission to retransmit copyrighted material contained in broadcast signals. The U.S. Copyright Office has recommended that Congress revise this compulsory licensing scheme, although Congress has thus far declined to do so. The elimination or substantial modification of the cable compulsory license could adversely affect our ability to obtain certain programming and substantially increase our programming costs. Further, the Copyright Office has not yet made any determinations as to how the compulsory license will apply to digital broadcast signals and services. In addition, we pay standard industry licensing fees to use music in the programs we create, including our cable businesses' local advertising and local origination programming, and our content businesses' original programs. These licensing fees have been the source of litigation with music performance rights organizations in the past, and we cannot predict with certainty whether license fee disputes may arise in the future.

**Broadcast Flag.** The FCC adopted rules in 2003 requiring cable operators to implement the "broadcast flag," a code that may be embedded in digital broadcast programming that directs digital TVs and other consumer electronics equipment to block the redistribution of such content over the Internet. These rules, if implemented, would have likely affected the design of cable-related equipment and home-networking technologies. However, in 2005, a federal appeals court invalidated the broadcast flag rules on the grounds that the FCC lacked jurisdiction under the Communications Act to promulgate them. Congress is considering proposals to reinstate the rules. Thus far, those efforts have been unsuccessful, but we cannot predict whether Congress will eventually approve legislation to revive the broadcast flag rules and, if adopted, how such legislation would affect cable operators.

**Other Areas.** The FCC actively regulates other aspects of our cable and content businesses, including, among other things: (1) the mandatory blackout of syndicated, network and sports programming; (2) customer service standards; (3) political advertising; (4) origination cablecasting (i.e., programming locally originated by and under the control of the cable operator); (5) sponsorship identification; (6) equal employment opportunity; (7) lottery programming; (8) program carriage; (9) recordkeeping and public file access requirements; and (10) technical standards relating to operation of the cable network. We are not aware that the FCC is considering any significant revisions to these rules at this time, but we are unable to predict how these regulations might be changed in the future and how any such changes might affect our cable and content businesses.

## EMPLOYEES

As of December 31, 2005, we had approximately 80,000 employees (including part-time employees). Of these employees, approximately 62,000 were associated with cable and approximately 18,000 were associated with our other divisions. Approximately 4,000 of our employees are covered by collective bargaining agreements or have organized but are not covered by collective bargaining agreements. We believe we have good relationships with our employees.

## CAUTION CONCERNING FORWARD-LOOKING STATEMENTS

The SEC encourages companies to disclose forward-looking information so that investors can better understand a company's future prospects and make informed investment decisions. In this Annual Report, we state our beliefs of future events and of our future financial performance. In some cases, you can identify these so-called "forward-looking statements" by words such as "may," "will," "should," "expects," "plans," "anticipates," "believes," "estimates," "predicts," "potential," or "continue," or the negative of these words, and other comparable words. You should be aware that those statements are only our predictions. In evaluating those statements, you should specifically consider various factors, including the risks and uncertainties listed in *Risk Factors* under Item 1A and in other reports we file with the SEC. Actual events or our actual results may differ materially from any of our forward-looking statements.

Additionally, we operate in a highly competitive, consumer-driven and rapidly changing environment. The environment is affected by government regulation, economic, strategic, political and social conditions, consumer response to new and existing products and services, technological developments and, particularly in view of new technologies, the ability to develop and protect intellectual property rights. Our actual results could differ materially from management's expectations because of changes in such factors. Other factors and risks could adversely affect our operations, business or financial results of our businesses in the future and could also cause actual results to differ materially from those contained in the forward-looking statements.

## ITEM 1A. RISK FACTORS

**All of the services offered by our cable systems face a wide range of competition that could adversely affect our future results of operations.**

Our cable systems compete with a number of different sources that provide news, information and entertainment programming to consumers. We compete directly with other program distributors, including satellite companies, telephone companies, companies that build competing cable systems in the same communities we serve, and companies that offer programming and other communications services to our subscribers and potential subscribers, including high-speed Internet and IP-enabled phone. This competition may adversely affect our business and operations materially in the future.

**Programming costs are increasing, which could adversely affect our future results of operations.**

We expect our programming costs to continue to be our largest single expense item in the foreseeable future. In recent years, the cable and satellite video industries have experienced a rapid increase in the cost of

programming. If we are unable to raise our subscribers' rates or offset such programming cost increases through the sale of additional services, the increasing cost of programming could have an adverse impact on our operating results. In addition, as we add programming to our video services, we may face increased programming costs that, in conjunction with the additional pricing constraints, may reduce operating margins.

We also expect to be subject to increasing demands by broadcasters in exchange for their required consent for the retransmission of broadcast programming to our subscribers. We cannot predict the impact of these demands or the effect on our business and operations should we fail to obtain the required consents.

**We are subject to regulation by federal, state and local governments, which may impose costs and restrictions.**

Federal, state and local governments extensively regulate the cable industry and the circuit-switched phone services industry and may begin regulating the Internet services industry. We expect that legislative enactments, court actions and regulatory proceedings will continue to clarify and in some cases change the rights and obligations of cable companies and other entities under the Communications Act and other laws, possibly in ways that we have not foreseen. Congress considers new legislative requirements potentially affecting our businesses virtually every year, and a significant initiative to update the Communications Act began in 2005 and is expected to continue in 2006. The results of these legislative, judicial and administrative actions may materially affect our business operations. Local authorities grant us franchises that permit us to operate our cable systems. We have to renew or renegotiate these franchises from time to time. Local franchising authorities often demand concessions or other commitments as a condition to renewal or transfer, and such concessions or other commitments could be costly to us in the future. In addition, we could be materially disadvantaged if we remain subject to legal constraints that do not apply equally to our competitors, such as if local telephone companies that provide video programming services are not subject to the local franchising requirements and other requirements that apply to us.

**We may face increased competition because of technological advances and new regulatory requirements, which could adversely affect our future results of operations.**

The ILECs are building wireline fiber-optic networks to provide video services in substantial portions of their service areas (and have begun to offer this service in limited areas), in addition to marketing DBS service in certain areas. In addition, the ILECs and other companies offer DSL service, which provides Internet access to subscribers at data transmission speeds substantially greater than that of conventional analog modems. We expect other advances in communications technology, as well as changes in the marketplace, to occur in the future. Other new technologies and services may develop and may compete with services that cable systems offer. The success of these ongoing and future developments could have an adverse effect on our business operations. Moreover, in recent years, Congress has enacted legislation and the FCC has adopted regulatory policies intended to provide a favorable operating environment for existing competitors and for potential new competitors to our cable systems.

**We face risks arising from the outcome of various litigation matters, including litigation associated with the Broadband acquisition.**

We are involved in various litigation matters, including those arising in the ordinary course of business and those described under the caption "*Legal Proceedings*" in Item 3 to this Annual Report on Form 10-K. Among these matters is litigation associated with the Broadband acquisition and for which AT&T controls the defense of the litigation. While we do not believe that any of these litigation matters alone or in the aggregate will have a material adverse effect on our consolidated financial position, an adverse outcome in one or more of these matters could be material to our consolidated results of operations for any one period. Further, no assurance can be given that any adverse outcome would not be material to our consolidated financial position.

**Acquisitions and other strategic transactions present many risks, and we may not realize the financial and strategic goals that were contemplated at the time of any transaction.**

From time to time we have made acquisitions and have entered into other strategic transactions. For example, in April 2005 we entered into agreements with Time Warner to jointly acquire substantially all the assets of Adelphia; in April 2005 we acquired a 20% interest in MGM; in October 2005 we agreed to buy the cable systems of Susquehanna Communications; and in November 2005 we entered into a joint venture with Sprint, Time Warner Cable, Cox and Advance/Newhouse to develop products using wireless technology. In connection with acquisitions and other strategic transactions we may incur unanticipated expenses, fail to realize anticipated benefits, have difficulty incorporating the acquired businesses, disrupt relationships with current and new employees, customers and vendors, incur significant indebtedness, or have to delay or not proceed with announced transactions. These factors could have a material adverse effect on our business, results of operations, financial condition or cash flows.

**Our Chairman and CEO has considerable influence over our operations.**

Brian L. Roberts has significant control over our operations through his beneficial ownership of all of the outstanding shares of our Class B common stock, which have a nondilutable 33 1/3% of the combined voting power of our common stock and separate approval rights over certain material transactions involving us.

#### **ITEM 1B. UNRESOLVED STAFF COMMENTS**

None.

#### **ITEM 2. PROPERTIES**

##### **Cable**

A central receiving apparatus, distribution cables, servers, customer premises equipment, customer service call centers and local business offices are the principal physical assets of our cable systems. We own or lease the receiving and distribution equipment of each system and own or lease parcels of real property for the receiving sites, customer service call centers and local business offices.

We also own a building that houses our media center. The media center contains equipment, which we own or lease, including equipment related to network origination, global transmission via satellite and terrestrial fiber optics, a broadcast studio, mobile and post-production services, interactive television services and streaming distribution services.

##### **Content**

Television studios and business offices are the principal physical assets of our content operations. We own or lease the television studios and business offices of our content operations.

##### **Other**

Two large, multi-purpose arenas that we own are the principal physical assets of our other operations.

We believe that substantially all of our physical assets are in good operating condition.

### ITEM 3. LEGAL PROCEEDINGS

#### At Home Cases

Litigation has been filed against us as a result of our alleged conduct with respect to our investment in and distribution relationship with At Home Corporation. At Home was a provider of high-speed Internet services that filed for bankruptcy protection in September 2001. Filed actions are: (i) class action lawsuits against us, Brian L. Roberts (our Chairman and Chief Executive Officer and a director), AT&T (the former controlling shareholder of At Home and also a former distributor of the At Home service) and others in the Superior Court of San Mateo County, California, alleging breaches of fiduciary duty in connection with transactions agreed to in March 2000 among At Home, AT&T, Cox (Cox is also an investor in At Home and a former distributor of the At Home service) and us; (ii) class action lawsuits against us, AT&T and others in the United States District Court for the Southern District of New York, alleging securities law violations and common law fraud in connection with disclosures made by At Home in 2001; and (iii) a lawsuit brought in the United States District Court for the District of Delaware in the name of At Home by certain At Home bondholders against us, Brian L. Roberts, Cox and others, alleging breaches of fiduciary duty relating to the March 2000 transactions and seeking recovery of alleged short-swing profits of at least \$600 million, pursuant to Section 16(b) of the Exchange Act, purported to have arisen in connection with certain transactions relating to At Home stock, effected pursuant to the March 2000 agreements.

The actions in San Mateo County, California (item (i) above), have been stayed by the United States Bankruptcy Court for the Northern District of California, the court in which At Home filed for bankruptcy, as violating the automatic bankruptcy stay. The decision to stay the actions was affirmed by the District Court and the Court of Appeals for the Ninth Circuit. In the Southern District of New York actions (item (ii) above), the court has dismissed the common law fraud claims against all defendants, leaving only the securities law claims. In a subsequent decision, the court limited the remaining claims against us and Mr. Roberts to disclosures that are alleged to have been made by At Home prior to August 28, 2000. In March 2005 the court certified a class of all purchasers of publicly traded At Home stock between March 28, 2000, and September 28, 2001. Plaintiffs have moved to amend the complaint so as to move the commencement of the class period back to November 9, 1999. We are opposing this amendment and have also moved to dismiss the complaint for failure to properly allege loss causation. The Delaware case (item (iii) above) was transferred to the United States District Court for the Southern District of New York. The court dismissed the Section 16(b) claims against us for failure to state a claim and the breach of fiduciary duty claim for lack of federal jurisdiction. The plaintiffs have appealed the decision dismissing the Section 16(b) claims and have recommenced the breach of fiduciary duty claim in Delaware Chancery Court. We have filed a motion to dismiss the Chancery Court claim.

Under the terms of the Broadband acquisition, we are contractually liable for 50% of any liabilities of AT&T relating to certain At Home litigation. For litigation in which we are contractually liable for 50% of any liabilities, AT&T will be liable for the other 50%. In addition to the actions against AT&T described in items (i), (ii) and (iii) above (in which we are also a defendant), such litigation matters included two additional actions brought by At Home's bondholders' liquidating trust against AT&T (and not naming us): (i) a lawsuit filed against AT&T and certain of its senior officers in Santa Clara, California state court alleging various breaches of fiduciary duties, misappropriation of trade secrets and other causes of action and (ii) an action filed against AT&T in the District Court for the Northern District of California alleging that AT&T infringes an At Home patent by using its broadband distribution and high-speed Internet backbone networks and equipment. In May 2005, At Home bondholders' liquidating trust and AT&T agreed to settle these two actions. Pursuant to the settlement, AT&T agreed to pay \$340 million to the bondholders' liquidating trust. The settlement was approved by the Bankruptcy Court, and these two actions were dismissed. As a result of the settlement by AT&T, we recorded a \$170 million charge to other income (expense), reflecting our portion of the settlement amount, in our first quarter 2005 financial results. In May 2005, we paid this amount and we have classified such payment as an operating activity in our statement of cash flows.

We deny any wrongdoing in connection with the claims that have been made directly against us, our subsidiaries and Brian L. Roberts, and are defending all of these claims vigorously. The final disposition of these



claims is not expected to have a material adverse effect on our consolidated financial position but could possibly be material to our consolidated results of operations of any one period. Further, no assurance can be given that any adverse outcome would not be material to our consolidated financial position.

#### **AT&T—Wireless and Common Stock Cases**

Under the terms of the Broadband acquisition, we are potentially responsible for a portion of the liabilities arising from two purported securities class action lawsuits brought against AT&T and others and consolidated for pre-trial purposes in the United States District Court for the District of New Jersey. These lawsuits assert claims under Section 11 and Section 12(a)(2) of the Securities Act of 1933, as amended, and Section 10(b) of the Exchange Act.

The first lawsuit, for which our portion of any loss is up to 15%, alleges that AT&T made material misstatements and omissions in the Registration Statement and Prospectus for the AT&T Wireless initial public offering (“Wireless Case”). In March 2004, the plaintiffs, and AT&T and the other defendants, moved for summary judgment in the Wireless Case. The New Jersey District Court denied the motions and the Judicial Panel on Multidistrict Litigation remanded the cases for trial to the United States District Court for the Southern District of New York, where they had originally been brought. A trial date has been set for April 19, 2006. We and AT&T believe that AT&T has meritorious defenses in the Wireless Case, and it is being vigorously defended.

The second lawsuit, for which our portion of any loss is 50%, alleges that AT&T knowingly provided false projections relating to AT&T common stock (“Common Stock Case”). In October 2004, the plaintiffs, and AT&T and the other defendants, agreed to settle the Common Stock Case for \$100 million. Some class members have objected to the amount and apportionment of the fees of class counsel and have appealed to the Third Circuit Court of Appeals. In May 2005, we paid \$50 million representing our share of the settlement amount and we have classified such payment as an operating activity in our statement of cash flows.

#### **AT&T—TCI Cases**

In June 1998, the first of a number of purported class action lawsuits was filed by then-shareholders of Tele-Communications, Inc. (“TCI”) Series A TCI Group Common Stock (“Common A”) against AT&T and the directors of TCI relating to the acquisition of TCI by AT&T. A consolidated amended complaint combining the various different actions was filed in February 1999 in the Delaware Court of Chancery. The consolidated amended complaint alleges that former members of the TCI board of directors breached their fiduciary duties to Common A shareholders by agreeing to transaction terms whereby holders of the Series B TCI Group Common Stock received a 10% premium over what Common A shareholders received in connection with the transaction. The complaint further alleges that AT&T aided and abetted the TCI directors’ breach of their fiduciary duties.

In connection with the TCI acquisition, which was completed in early 1999, AT&T agreed under certain circumstances to indemnify TCI’s former directors for certain losses, expenses, claims or liabilities, potentially including those incurred in connection with this action. In connection with the Broadband acquisition, we agreed to indemnify AT&T for certain losses, expenses, claims or liabilities. Those losses and expenses potentially include those incurred by AT&T in connection with this action, both as a defendant and in connection with any obligation that AT&T may have to indemnify the former TCI directors for liabilities incurred as a result of the claims against them.

In July 2003, the Delaware Court of Chancery granted AT&T’s motion to dismiss on the ground that the complaint failed to adequately plead AT&T’s “knowing participation,” as required to state a claim for aiding and abetting a breach of fiduciary duty. In February 2005, the former TCI director defendants filed a motion for summary judgment. In December 2005, the Court issued a ruling that there were triable issues of fact as to whether the merger was fair to the Common A shareholders, among other matters. The final disposition of these

claims is not expected to have a material adverse effect on our consolidated financial position, but could possibly be material to our consolidated results of operations of any one period. Further, no assurance can be given that any adverse outcome would not be material to our consolidated financial position.

**Patent Litigation**

We are a defendant in several unrelated lawsuits claiming infringement of various patents relating to various aspects of our businesses. In certain of these cases other industry participants are also defendants, and also in certain of these cases we expect that any potential liability would be the responsibility of our equipment vendors pursuant to applicable contractual indemnification provisions. To the extent that the allegations in these lawsuits can be analyzed by us at this stage of their proceedings, we believe the claims are without merit and intend to defend the actions vigorously. The final disposition of these claims is not expected to have a material adverse effect on our consolidated financial position, but could possibly be material to our consolidated results of operations of any one period. Further, no assurance can be given that any adverse outcome would not be material to our consolidated financial position.

**Other**

We are subject to other legal proceedings and claims that arise in the ordinary course of our business. The amount of ultimate liability with respect to such actions is not expected to materially affect our financial position, results of operations or liquidity.

**ITEM 4. SUBMISSION OF MATTERS TO A VOTE OF SECURITY HOLDERS**

Not applicable.

**ITEM 4A. EXECUTIVE OFFICERS OF THE REGISTRANT**

Except for our Chairman and CEO (who continues in these offices until his death, resignation or removal), the term of office of each of our officers continues until his or her successor is selected and qualified, or until his or her earlier death, resignation or removal. The following table sets forth information concerning our executive officers, including their ages, positions and tenure as of December 31, 2005:

<u>Name</u>	<u>Age</u>	<u>Officer Since</u>	<u>Position with Comcast</u>
Brian L. Roberts .....	46	1986	Chairman and CEO; Director
Ralph J. Roberts .....	85	1969	Chairman of the Executive and Finance Committee of the Board of Directors; Director
John R. Alchin .....	57	1990	Executive Vice President; Co-Chief Financial Officer; Treasurer
Stephen B. Burke .....	47	1998	Executive Vice President; Chief Operating Officer; President, Comcast Cable
David L. Cohen .....	50	2002	Executive Vice President
Lawrence S. Smith .....	58	1988	Executive Vice President; Co-Chief Financial Officer
Arthur R. Block .....	50	1993	Senior Vice President; General Counsel; Secretary
Lawrence J. Salva .....	49	2000	Senior Vice President; Chief Accounting Officer; Controller

*Brian L. Roberts* has served as a director and as our President and Chief Executive Officer since November 2002 and our Chairman of the Board since May 2004. Prior to November 2002, Mr. Roberts served as a director and President of Comcast Holdings Corporation (our immediate predecessor and now a subsidiary) for more than five years. As of December 31, 2005, Mr. Roberts had sole voting power over approximately 33 1/3% of the combined voting power of our two classes of voting common stock. He is a son of Mr. Ralph J. Roberts. Mr. Roberts is also a director of Comcast Holdings and The Bank of New York Company, Inc.

*Ralph J. Roberts* has served as a director and as our Chairman of the Executive and Finance Committee of the Board of Directors since November 2002. Prior to November 2002, Mr. Roberts served as a director and Chairman of the Board of Directors of Comcast Holdings for more than five years. He is the father of Mr. Brian L. Roberts.

*John R. Alchin* has served as our Executive Vice President, Co-Chief Financial Officer and Treasurer since November 2002. Prior to November 2002, Mr. Alchin served as an Executive Vice President and Treasurer of Comcast Holdings since January 2000. Mr. Alchin is also a director of BNY Capital Markets, Inc.

*Stephen B. Burke* has served as our Chief Operating Officer since July 2004, and as our Executive Vice President and President of Comcast Cable and Comcast Cable Communications Holdings since November 2002. Prior to November 2002, Mr. Burke served as an Executive Vice President of Comcast Holdings and as President of Comcast Cable since January 2000. Mr. Burke is also a director of JPMorgan Chase & Company.

*David L. Cohen* has served as our Executive Vice President since November 2002. Mr. Cohen joined Comcast Holdings in July 2002 as an Executive Vice President. Prior to that time, he was partner in, and Chairman of, the law firm of Ballard Spahr Andrews & Ingersoll, LLP for more than five years. Mr. Cohen is also a director of Comcast Holdings.

*Lawrence S. Smith* has served as our Executive Vice President and Co-Chief Financial Officer since November 2002. Prior to November 2002, Mr. Smith served as an Executive Vice President of Comcast Holdings for more than five years. Mr. Smith is also a director of Comcast Holdings and Air Products and Chemicals, Inc.

*Arthur R. Block* has served as our Senior Vice President, General Counsel and Secretary since November 2002. Prior to November 2002, Mr. Block served as General Counsel of Comcast Holdings since June 2000 and as Senior Vice President of Comcast Holdings since January 2000. Mr. Block is also a director of Comcast Holdings.

*Lawrence J. Salva* has served as our Senior Vice President and Controller since November 2002 and as Chief Accounting Officer since May 2004. Mr. Salva joined Comcast Holdings in January 2000 as Senior Vice President and Chief Accounting Officer.

**PART II**

**ITEM 5. MARKET FOR THE REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES**

Our Class A common stock is included on Nasdaq under the symbol CMCSA and our Class A Special common stock is included on Nasdaq under the symbol CMCSK. There is no established public trading market for our Class B common stock. Our Class B common stock can be converted, on a share for share basis, into Class A or Class A Special common stock. The following table sets forth, for the indicated periods, the closing price range of our Class A and Class A Special common stock, as furnished by Nasdaq.

	<u>Class A</u>		<u>Class A Special</u>	
	<u>High</u>	<u>Low</u>	<u>High</u>	<u>Low</u>
<b>2005</b>				
First Quarter .....	\$34.30	\$31.31	\$33.98	\$30.71
Second Quarter .....	33.53	30.67	33.26	29.81
Third Quarter .....	32.10	28.83	31.69	28.31
Fourth Quarter .....	28.94	25.92	28.58	25.69
<b>2004</b>				
First Quarter .....	\$36.13	\$28.00	\$35.10	\$27.05
Second Quarter .....	30.66	27.63	29.70	26.67
Third Quarter .....	28.75	26.48	28.13	26.18
Fourth Quarter .....	33.28	27.84	32.84	27.50

We do not intend to pay dividends on our Class A, Class A Special or Class B common stock for the foreseeable future.

Holders of our Class A common stock in the aggregate hold 66⅔% of the aggregate voting power of our capital stock. The number of votes that each share of our Class A common stock will have at any given time will depend on the number of shares of Class A common stock and Class B common stock then outstanding. Holders of shares of our Class A Special common stock cannot vote in the election of directors or otherwise, except where class voting is required by law. In that case, holders of our Class A Special common stock will have the same number of votes per share as each holder of Class A common stock. Our Class B common stock has a 33⅓% nondilutable voting interest and each share of Class B common stock has 15 votes per share. Mr. Brian L. Roberts beneficially owns all outstanding shares of our Class B common stock. Generally, including as to the election of directors, holders of Class A common stock and Class B common stock vote as one class except where class voting is required by law.

As of December 31, 2005, there were 962,711 record holders of our Class A common stock, 2,390 record holders of our Class A Special common stock and three record holders of our Class B common stock.

A summary of our repurchases during 2005 under our Board-authorized share repurchase program, on a trade-date basis, is as follows:

<u>Period</u>	<u>Total Number of Shares Purchased</u>	<u>Average Price per Share</u>	<u>Total Number of Shares Purchased as Part of Publicly Announced Program</u>	<u>Total Dollars Purchased Under the Program</u>	<u>Maximum Dollar Value of Shares that May Yet Be Purchased Under the Program</u>
1Q05 .....	9,627,574	\$32.42	9,364,195	\$ 303,403,917	\$ 342,671,550
2Q05 .....	10,593,703	\$31.71	10,530,359	\$ 333,887,157	\$2,008,784,393
3Q05 .....	25,400,193	\$29.70	25,321,628	\$ 751,936,304	\$1,256,848,089
October 1-31, 2005 .....	2,854,733	\$27.71	2,850,000	\$ 78,971,123	\$1,177,876,966
November 1-30, 2005 ...	7,846,315	\$26.15	7,500,000	\$ 196,268,833	\$ 981,608,133
December 1-31, 2005 ...	23,560,106	\$26.56	23,554,109	\$ 625,553,880	\$ 356,054,253
Total 4Q05 .....	<u>34,261,154</u>	<u>\$26.56</u>	<u>33,904,109</u>	<u>\$ 900,793,836</u>	<u>\$ 356,054,253</u>
Total 2005 .....	<u>79,882,624</u>	<u>\$28.95</u>	<u>79,120,291</u>	<u>\$2,290,021,214</u>	<u>\$ 356,054,253</u>

The total number of shares purchased during 2005 includes 762,333 shares received in the administration of employee equity compensation plans.

#### **ITEM 6. SELECTED FINANCIAL DATA**

We incorporate the information required for this item by reference to page 74 of our 2005 Annual Report to Shareholders set forth as Exhibit 13.1 to this Annual Report on Form 10-K.

#### **ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS**

We incorporate the information required for this item by reference to pages 18 to 31 of our 2005 Annual Report to Shareholders set forth as Exhibit 13.1 to this Annual Report on Form 10-K.

#### **ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK**

We incorporate the information required for this item by reference to pages 27 to 28 of our 2005 Annual Report to Shareholders set forth as Exhibit 13.1 to this Annual Report on Form 10-K.

#### **ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA**

We incorporate the information required for this item by reference to pages 33 to 72 of our 2005 Annual Report to Shareholders set forth as Exhibit 13.1 to this Annual Report on Form 10-K.

#### **ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE**

None.

#### **ITEM 9A. CONTROLS AND PROCEDURES**

**Conclusions regarding disclosure controls and procedures.** Our principal executive and principal financial officers, after evaluating the effectiveness of our disclosure controls and procedures (as defined in the Securities Exchange Act of 1934 Rules 13a-15(e) or 15d-15(e)) as of the end of the period covered by this report, have concluded that, based on the evaluation of these controls and procedures required by paragraph (b) of Exchange Act Rules 13a-15 or 15d-15, our disclosure controls and procedures were effective.

**Management's annual report on internal control over financial reporting.**

We incorporate the information required for this item by reference to page 32 of our 2005 Annual Report to Shareholders set forth as Exhibit 13.1 to this Annual Report on Form 10-K.

**Attestation report of the registered public accounting firm.**

We incorporate the information required for this item by reference to page 33 of our 2005 Annual Report to Shareholders set forth as Exhibit 13.1 to this Annual Report on Form 10-K.

**Changes in internal control over financial reporting.** There were no changes in our internal control over financial reporting identified in connection with the evaluation required by paragraph (d) of Exchange Act Rules 13a-15 or 15d-15 that occurred during our last fiscal quarter that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

**ITEM 9B. OTHER INFORMATION**

None.

**PART III**

**ITEM 10. DIRECTORS AND EXECUTIVE OFFICERS OF THE REGISTRANT**

Except for the information regarding executive officers required by Item 401 of Regulation S-K, which is included in Part I of this Annual Report on Form 10-K as Item 4A, we incorporate the information required by this item by reference to our definitive proxy statement for our annual meeting of shareholders presently scheduled to be held in May 2006. We refer to this proxy statement as the 2006 Proxy Statement.

**ITEM 11. EXECUTIVE COMPENSATION**

We incorporate the information required by this item by reference to our 2006 Proxy Statement.

**ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT**

We incorporate the information required by this item by reference to our 2006 Proxy Statement.

**ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS**

We incorporate the information required by this item by reference to our 2006 Proxy Statement.

**ITEM 14. PRINCIPAL ACCOUNTANT FEES AND SERVICES**

We incorporate the information required by this item by reference to our 2006 Proxy Statement.

We will file our 2006 Proxy Statement for our Annual Meeting of Shareholders with the Securities and Exchange Commission on or before April 30, 2006.

**PART IV**

**ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES**

(a.) Index to Consolidated Financial Statements and Schedules

	<u>2005 Annual Report to Shareholders Page</u>
Report of Independent Registered Public Accounting Firm .....	33
Consolidated Balance Sheet—December 31, 2005 and 2004 .....	34
Consolidated Statement of Operations—Years Ended December 31, 2005, 2004 and 2003 .....	35
Consolidated Statement of Cash Flows—Years Ended December 31, 2005, 2004 and 2003 .....	36
Consolidated Statement of Stockholders' Equity—Years Ended December 31, 2005, 2004 and 2003 .....	37
Notes to Consolidated Financial Statements .....	38
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Data submitted herewith:

	<u>2005 Annual Report on Form 10-K Page</u>
Report of Independent Registered Public Accounting Firm .....	34
Financial Statement Schedule II—Valuation and Qualifying Accounts. ....	35

All other schedules are omitted because they are not applicable, not required or the required information is included in the consolidated financial statements or notes thereto.

(b) Exhibits required to be filed by Item 601 of Regulation S-K:

- 3.1 Restated Articles of Incorporation of Comcast Corporation.
- 3.2 Restated By-Laws of Comcast Corporation (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed on June 1, 2005).
- 4.1 Specimen Class A Common Stock Certificate (incorporated by reference to Exhibit 4.1 to our Annual Report on Form 10-K for the year ended December 31, 2002).
- 4.2 Specimen Class A Special Common Stock Certificate (incorporated by reference to Exhibit 4.2 to our Annual Report on Form 10-K for the year ended December 31, 2002).
- 4.3 Rights Agreement dated as of November 18, 2002, between Comcast Corporation and EquiServe Trust Company, N.A., as Rights Agent, which includes the Form of Certificate of Designation of Series A Participant's Cumulative Preferred Stock as Exhibit A and the Form of Right Certificate as Exhibit B (incorporated by reference to our registration statement on Form 8-A12g filed on November 18, 2002).
- 4.4 Form of Indenture, dated as of January 7, 2003 between Comcast Corporation, Comcast Cable Communications, LLC, Comcast Cable Communications Holdings, Inc., Comcast Cable Holdings, LLC, Comcast MO Group, Inc., Comcast MO of Delaware, LLC (f/k/a Comcast MO of Delaware, Inc.) and The Bank of New York, as Trustee relating to our 5.85% Notes due 2010, 6.50% Notes Due 2015, 5.50% Notes due 2011, 7.05% Notes Due 2033, 5.30% Notes due 2014, 4.95% Notes Due 2016, 5.65% Notes Due 2035, 5.45% Notes Due 2010, 5.85% Notes Due 2015 and 6.50% due 2035 (incorporated by reference to Exhibit 4.5 to our registration statement on Form S-3 filed on December 16, 2002).

- 4.5 Form of Supplemental Indenture, dated March 25, 2003 to the Indenture between Comcast Corporation, Comcast Cable Holdings, LLC, Comcast Cable Communications Holdings, Inc., Comcast Cable Communications, LLC, Comcast MO Group, Inc., Comcast MO of Delaware, LLC (f/k/a Comcast MO of Delaware, Inc.) and The Bank of New York as Trustee, dated as of January 7, 2003 (incorporated by reference to Exhibit 4.25 to our Annual Report on Form 10-K for the year ended December 31, 2003).

Certain instruments defining the rights of holders of long-term obligation of the registrant and certain of its subsidiaries (the total amount of securities authorized under each of which does not exceed ten percent of the total assets of the registrant and its subsidiaries on a consolidated basis), are omitted pursuant to Item 601(b)(4)(iii)(A) of Regulation S-K. We agree to furnish copies of any such instruments to the SEC upon request.

- 9.1 Agreement and Declaration of Trust of TWE Holdings I Trust by and among MOC Holdco I, Inc., Edith E. Holiday and The Capital Trust Company of Delaware (incorporated by reference to Exhibit 99.2 to our Current Report on Form 8-K12g3 filed on November 18, 2002).
- 9.2 Form of Agreement and Declaration of Trust of TWE Holdings II Trust by and among MOC Holdco II, Inc., Edith E. Holiday and The Capital Trust Company of Delaware (incorporated by reference to Exhibit 99.3 to our Current Report on Form 8-K12g3 filed on November 18, 2002).
- 10.1 \* Comcast Corporation 1987 Stock Option Plan, as amended and restated effective November 18, 2002 (incorporated by reference to Exhibit 10.1 to our Annual Report on Form 10-K for the year ended December 31, 2002).
- 10.2 \* Comcast Corporation 2002 Stock Option Plan, as amended and restated effective January 30, 2004 (incorporated by reference to Exhibit 10.2 to our Annual Report on Form 10-K for the year ended December 31, 2003).
- 10.3 \* Comcast Corporation 2003 Stock Option Plan, as amended and restated effective January 30, 2004 (incorporated by reference to Exhibit 10.3 to our Annual Report on Form 10-K for the year ended December 31, 2003).
- 10.4 \* Comcast Corporation 2002 Deferred Stock Option Plan, as amended and restated effective February 16, 2005 (incorporated by reference to Exhibit 10.6 to our Annual Report on Form 10-K for the year ended December 31, 2004).
- 10.5 \* Comcast Corporation 2002 Deferred Compensation Plan, as amended and restated effective February 16, 2005 (incorporated by reference to Exhibit 10.4 to our Annual Report on Form 10-K for the year ended December 31, 2004).
- 10.6 \* Comcast Corporation 2005 Deferred Compensation Plan, as amended and restated effective January 1, 2005
- 10.7 \* Comcast Corporation 2002 Restricted Stock Plan, as amended and restated effective December 14, 2005.
- 10.8 \* 2004 Management Achievement Plan, as amended and restated effective December 14, 2005.
- 10.9 \* 1992 Executive Split Dollar Insurance Plan (incorporated by reference to Exhibit 10(12) to the Comcast Holdings Corporation Annual Report on Form 10-K for the year ended December 31, 1992).
- 10.10\* Comcast Corporation 2002 Cash Bonus Plan, as amended and restated effective December 14, 2005.
- 10.11\* Comcast Corporation 2002 Executive Cash Bonus Plan, as amended and restated effective December 14, 2005.
- 10.12\* Comcast Corporation 2002 Supplemental Cash Bonus Plan, as amended and restated effective December 14, 2005.



- 10.13\* Comcast Corporation 2002 Non-Employee Director Compensation Plan, as amended and restated, effective January 12, 2005 (incorporated by reference to Exhibit 10.13 to our Annual Report on Form 10-K for the year ended December 31, 2004).
- 10.14\* Comcast Corporation 2002 Employee Stock Purchase Plan, as amended and restated effective December 14, 2005.
- 10.15\* Comcast Corporation Supplemental Executive Retirement Plan, as amended and restated effective June 5, 2001 (incorporated by reference to Exhibit 10.10 to the Comcast Holdings Corporation Annual Report on Form 10-K for the year ended December 31, 2001).
- 10.16\* Employment Agreement between Comcast Corporation and John R. Alchin dated November 7, 2005 (incorporated by reference to Exhibit 99.1 to our Form 8-K filed on November 7, 2005).
- 10.17\* Consulting Agreement between Comcast Corporation and C. Michael Armstrong, dated as of May 26, 2004 (incorporated by reference to Exhibit 10.1 to our Quarterly Report on Form 10-Q for the quarter ended June 30, 2004).
- 10.18\* First Amendment to Consulting Agreement between Comcast Corporation and C. Michael Armstrong, dated as of May 26, 2004 (incorporated by reference to Exhibit 10.2 to our Quarterly Report on Form 10-Q for the quarter ended June 30, 2004).
- 10.19\* Certificate of Interest of Julian Brodsky under the Comcast Holdings Corporation Unfunded Plan of Deferred Compensation (incorporated by reference to Exhibit 10.21 to our Annual Report on Form 10-K for the year ended December 31, 2002).
- 10.20\* Employment Agreement between Comcast Holdings Corporation and Julian A. Brodsky, dated as of May 1, 2002 (incorporated by reference to Exhibit 10.22 to our Annual Report on Form 10-K for the year ended December 31, 2002).
- 10.21\* Amendment to Employment Agreement between Comcast Holdings Corporation and Julian A. Brodsky, dated as of November 18, 2002 (incorporated by reference to Exhibit 10.23 to our Annual Report on Form 10-K for the year ended December 31, 2002).
- 10.22\* Employment Agreement between Comcast Corporation and Stephen B. Burke dated November 22, 2005 (incorporated by reference to Exhibit 99.1 to our Form 8-K filed on November 22, 2005).
- 10.23\* Amendment No. 1 to Employment Agreement between Comcast Corporation and Stephen B. Burke dated January 25, 2006.
- 10.24\* Employment Agreement between Comcast Corporation and David L. Cohen dated November 7, 2005 (incorporated by reference to Exhibit 99.2 to our Form 8-K filed on November 7, 2005).
- 10.25\* Amendment No. 1 to Employment Agreement between Comcast Corporation and David L. Cohen dated November 11, 2005.
- 10.26\* Amendment No. 2 to Employment Agreement between Comcast Corporation and David L. Cohen dated January 25, 2006.
- 10.27\* Employment Agreement between Comcast Corporation and Brian L. Roberts, dated as of June 1, 2005 (incorporated by reference to Exhibit 99.1 to our Form 8-K filed on August 4, 2005).
- 10.28\* Term Life Insurance Premium and Tax Bonus Agreement between Comcast Holdings Corporation and Brian L. Roberts, dated as of September 23, 1998 (incorporated by reference to Exhibit 10.1 to our quarterly report on Form 10-Q for the quarter ended March 31, 2003).
- 10.29\* Compensation and Deferred Compensation Agreement and Stock Appreciation Bonus Plan between Comcast Holdings Corporation and Ralph J. Roberts, as amended and restated March 16, 1994 (incorporated by reference to Exhibit 10(13) to the Comcast Holdings Corporation Annual Report on Form 10-K for the year ended December 31, 1993).

- 10.30\* Compensation and Deferred Compensation Agreement between Comcast Holdings Corporation and Ralph J. Roberts, as amended and restated August 31, 1998 (incorporated by reference to Exhibit 10.1 to the Comcast Holdings Corporation quarterly report on Form 10-Q for the quarter ended September 30, 1998).
- 10.31\* Amendment Agreement to Compensation and Deferred Compensation Agreement between Comcast Holdings Corporation and Ralph J. Roberts, dated as of August 19, 1999 (incorporated by reference to Exhibit 10.2 to the Comcast Holdings Corporation quarterly report on Form 10-Q for the quarter ended March 31, 2000).
- 10.32\* Amendment to Compensation and Deferred Compensation Agreement between Comcast Holdings Corporation and Ralph J. Roberts, dated as of June 5, 2001 (incorporated by reference to Exhibit 10.8 to the Comcast Holdings Corporation Annual Report on Form 10-K for the year ended December 31, 2001).
- 10.33\* Amendment to Compensation and Deferred Compensation Agreement between Comcast Holdings Corporation and Ralph J. Roberts, dated as of January 24, 2002 (incorporated by reference to Exhibit 10.16 to our Annual Report on Form 10-K for the year ended December 31, 2002).
- 10.34\* Amendment to Compensation and Deferred Compensation Agreement between Comcast Holdings Corporation and Ralph J. Roberts, dated as of November 18, 2002 (incorporated by reference to Exhibit 10.17 to our Annual Report on Form 10-K for the year ended December 31, 2002).
- 10.35\* Insurance Premium Termination Agreement between Comcast Corporation and Ralph J. Roberts, effective January 30, 2004 (incorporated by reference to Exhibit 10.1 to our Form 10-Q for the quarter ended March 31, 2004).
- 10.36\* Executive Employment Agreement between Comcast Corporation and Lawrence S. Smith dated as of October 1, 2005 (incorporated by reference to Exhibit 99.3 to our Form 8-K filed on November 7, 2005).
- 10.37 Asset Purchase Agreement, dated as of April 20, 2005, between Adelphia Communications Corporation and Comcast Corporation (incorporated by reference to Exhibit 2.1 to our Current Report on Form 8-K filed on April 26, 2005).
- 10.38 Redemption Agreement, dated as of April 20, 2005, by and among Comcast Cable Communications Holdings, Inc., MOC Holdco II, Inc., TWE Holdings II Trust, Cable Holdco II Inc., Time Warner Cable Inc. and, for certain limited purposes, Comcast Corporation, Time Warner Inc. and TWE Holdings I Trust (incorporated by reference to Exhibit 2.2 to our Current Report on Form 8-K filed on April 26, 2005).
- 10.39 Redemption Agreement, dated as of April 20, 2005, by and among Comcast Cable Communications Holdings, Inc., MOC Holdco I, LLC, TWE Holdings I Trust, Cable Holdco III LLC, Time Warner Entertainment Company, L.P. and, for certain limited purposes, Comcast Corporation, Time Warner Inc. and Time Warner Cable Inc. (incorporated by reference to Exhibit 2.3 to our Current Report on Form 8-K filed on April 26, 2005).
- 10.40 Exchange Agreement, dated as of April 20, 2005, by and among Comcast Corporation, Comcast Cable Communications Holdings, Inc., Comcast of Georgia, Inc., TCI Holdings, Inc., Time Warner Cable Inc., Time Warner NY Cable LLC and Urban Cable Works of Philadelphia, L.P. (incorporated by reference to Exhibit 2.4 to our Current Report on Form 8-K filed on April 26, 2005).

- 10.41 Composite copy of Tolling and Optional Redemption Agreement, dated as of September 24, 2004, as amended by Amendment No. 1, dated as of February 17, 2005, and by Amendment No. 2, dated as of April 20, 2005, by and among Comcast Cable Communications Holdings, Inc., MOC Holdco II, Inc., TWE Holdings II Trust, Cable Holdco Inc., Time Warner Cable Inc. and, for certain limited purposes, Comcast Corporation, Time Warner Inc. and TWE Holdings I Trust (incorporated by reference to Exhibit 2.5 to our Current Report on Form 8-K filed on April 26, 2005).
- 10.42 Letter Agreement, dated April 20, 2005, among Adelphia Communications Corporation, Comcast Corporation and Time Warner NY Cable LLC (incorporated by reference to Exhibit 2.6 to our Current Report on Form 8-K filed on April 26, 2005).
- 10.43 Letter Agreement, dated April 20, 2005, between Time Warner Cable Inc. and Comcast Corporation (incorporated by reference to Exhibit 2.7 to our Current Report on Form 8-K filed on April 26, 2005).
- 10.44 Amended and Restated Stock Purchase Agreement, dated as of June 30, 2003, among Comcast Corporation, Comcast QVC, Inc., Liberty Media Corporation and QVC, Inc. (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on October 1, 2003).
- 10.45 Five Year Revolving Credit Agreement dated as of October 7, 2005 among Comcast Corporation, Comcast Cable Communications Holdings, Inc., the Financial Institutions party thereto and JP Morgan Chase Bank, N.A., as Administrative Agent.
- 13.1 Pages 18 to 72 and page 74 of the 2005 Annual Report to Shareholders, but only to the extent set forth in Items 6-8 and 9A hereof. With the exception of the aforementioned information incorporated by reference in this Annual Report on Form 10-K, the 2005 Annual Report to Shareholders is not deemed "filed" as part hereof.
- 21 List of subsidiaries.
- 23.1 Consent of Deloitte & Touche LLP.
- 31.1 Certification of Chief Executive Officer pursuant to Section 302 of the Sarbanes- Oxley Act of 2002.
- 31.2 Certification of Co-Chief Financial Officer pursuant to Section 302 of the Sarbanes- Oxley Act of 2002.
- 31.3 Certification of Co-Chief Financial Officer pursuant to Section 302 of the Sarbanes- Oxley Act of 2002.
- 32.1 Certifications of Chief Executive Officer and Co-Chief Financial Officers pursuant to Section 906 of the Sarbanes- Oxley Act of 2002.

\* Constitutes a management contract or compensatory plan or arrangement.

## SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized in Philadelphia, Pennsylvania on February 22, 2006.

By:           /s/ BRIAN L. ROBERTS            
**Brian L. Roberts**  
*Chairman and CEO*

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the Registrant and in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
/s/ <b>BRIAN L. ROBERTS</b> <b>Brian L. Roberts</b>	Chairman and CEO; Director (Principal Executive Officer)	February 22, 2006
/s/ <b>RALPH J. ROBERTS</b> <b>Ralph J. Roberts</b>	Chairman of the Executive and Finance Committee of the Board of Directors; Director	February 22, 2006
/s/ <b>JULIAN A. BRODSKY</b> <b>Julian A. Brodsky</b>	Non-Executive Vice Chairman; Director	February 22, 2006
/s/ <b>LAWRENCE S. SMITH</b> <b>Lawrence S. Smith</b>	Executive Vice President (Co-Principal Financial Officer)	February 22, 2006
/s/ <b>JOHN R. ALCHIN</b> <b>John R. Alchin</b>	Executive Vice President and Treasurer (Co-Principal Financial Officer)	February 22, 2006
/s/ <b>LAWRENCE J. SALVA</b> <b>Lawrence J. Salva</b>	Senior Vice President, Chief Accounting Officer and Controller (Principal Accounting Officer)	February 22, 2006
/s/ <b>S. DECKER ANSTROM</b> <b>S. Decker Anstrom</b>	Director	February 22, 2006
/s/ <b>EDWARD D. BREEN</b> <b>Edward D. Breen</b>	Director	February 22, 2006
/s/ <b>KENNETH J. BACON</b> <b>Kenneth J. Bacon</b>	Director	February 22, 2006
/s/ <b>SHELDON M. BONOVTZ</b> <b>Sheldon M. Bonovitz</b>	Director	February 22, 2006
/s/ <b>JOSEPH J. COLLINS</b> <b>Joseph J. Collins</b>	Director	February 22, 2006
/s/ <b>J. MICHAEL COOK</b> <b>J. Michael Cook</b>	Director	February 22, 2006
/s/ <b>JEFFREY A. HONICKMAN</b> <b>Jeffrey A. Honickman</b>	Director	February 22, 2006
/s/ <b>DR. JUDITH RODIN</b> <b>Dr. Judith Rodin</b>	Director	February 22, 2006
/s/ <b>MICHAEL I. SOVERN</b> <b>Michael I. Sovern</b>	Director	February 22, 2006

**REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

Board of Directors and Stockholders  
Comcast Corporation  
Philadelphia, Pennsylvania

We have audited the consolidated financial statements of Comcast Corporation and subsidiaries (the "Company") as of December 31, 2005 and 2004, and for each of the three years in the period ended December 31, 2005, management's assessment of the effectiveness of the Company's internal control over financial reporting as of December 31, 2005, and the effectiveness of the Company's internal control over financial reporting as of December 31, 2005, and have issued our report thereon dated February 21, 2006; such consolidated financial statements and report are included in the 2005 Annual Report to Shareholders and incorporated by reference in this Form 10-K. Our audits also included the consolidated financial statement schedule of Comcast Corporation and its subsidiaries, listed in Item 15(a). This consolidated financial statement schedule is the responsibility of the Company's management. Our responsibility is to express an opinion based on our audits. In our opinion, such consolidated financial statement schedule, when considered in relation to the basic consolidated financial statements taken as a whole, presents fairly, in all material respects, the information set forth therein.

/s/ Deloitte & Touche LLP  
Philadelphia, Pennsylvania  
February 21, 2006

**Comcast Corporation and Subsidiaries**  
**Schedule II—Valuation and Qualifying Accounts**  
**Years Ended December 31, 2005, 2004 and 2003**

<u>(In millions)</u>	<u>Balance at Beginning of Year</u>	<u>Additions Charged to Costs and Expenses</u>	<u>Deductions from Reserves(A)</u>	<u>Balance at End of Year</u>
Allowance for Doubtful Accounts				
2005 .....	\$132	\$265	\$261	\$136
2004 .....	146	247	261	132
2003 .....	172	220	246	146

(A) Uncollectible accounts written off.

**CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

We consent to the incorporation by reference in Registration Statements of Comcast Corporation on Form S-8 (Nos. 333-101645, 333-101295, 333-104385, 333-121082, 333-123059, 333-130844, 333-130845, and 333-130847), Form S-3 (Nos. 333-101861, 333-119161 and 333-104034), and Form S-4 (Nos. 333-101264 and 333-102883) of our reports dated February 21, 2006, relating to the financial statements of Comcast Corporation and management's report on the effectiveness of internal control over financial reporting, appearing in the 2005 Annual Report to Shareholders and incorporated by reference in this Annual Report on Form 10-K of Comcast Corporation for the year ended December 31, 2005, and to the financial statement schedule of Comcast Corporation, appearing in this Annual Report on Form 10-K of Comcast Corporation for the year ended December 31, 2005.

/s/ Deloitte & Touche LLP  
Philadelphia, Pennsylvania  
February 21, 2006

**CERTIFICATIONS**

I, Brian L. Roberts, certify that:

1. I have reviewed this annual report on Form 10-K of Comcast Corporation;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officers and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - a) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b) designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c) evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d) disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officers and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b) any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 22, 2006

/s/ Brian L. Roberts

---

Name: Brian L. Roberts  
Chief Executive Officer



I, Lawrence S. Smith, certify that:

1. I have reviewed this annual report on Form 10-K of Comcast Corporation;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officers and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - a) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b) designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c) evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d) disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officers and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b) any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 22, 2006

/s/ Lawrence S. Smith

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Name: Lawrence S. Smith  
Co-Chief Financial Officer

I, John R. Alchin, certify that:

1. I have reviewed this annual report on Form 10-K of Comcast Corporation;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officers and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - a) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b) designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c) evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d) disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officers and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b) any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 22, 2006

/s/ John R. Alchin

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Name: John R. Alchin  
Co-Chief Financial Officer

**Certification Pursuant to Section 906 of the Sarbanes-Oxley Act**

February 22, 2006

Securities and Exchange Commission  
450 Fifth Street, N.W.  
Washington, D.C. 20549

Ladies and Gentlemen:

The certification set forth below is being submitted in connection with the annual report on Form 10-K of Comcast Corporation (the "Report") for the purpose of complying with Rule 13a-14(b) or Rule 15d-14(b) of the Securities Exchange Act of 1934 (the "Exchange Act") and Section 1350 of Chapter 63 of Title 18 of the United States Code.

Brian L. Roberts, the Chief Executive Officer, Lawrence S. Smith, the Co-Chief Financial Officer and John R. Alchin, the Co-Chief Financial Officer of Comcast Corporation, each certifies that, to the best of his knowledge:

1. The Report fully complies with the requirements of Section 13(a) or 15(d) of the Exchange Act; and
2. The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of Comcast Corporation.

*/s/ Brian L. Roberts*

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Name: Brian L. Roberts  
Chief Executive Officer

*/s/ Lawrence S. Smith*

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Name: Lawrence S. Smith  
Co-Chief Financial Officer

*/s/ John R. Alchin*

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Name: John R. Alchin  
Co-Chief Financial Officer



## **2006 ANNUAL REPORT**

# STATEMENT OF CAPITAL EXPENDITURES AND MAJOR EQUIPEMNT EXPENDITURES

AUGUST 30, 2006

## **CONSTRUCTION UPDATE**

Through June 30, 2005 the construction department has designed, constructed and activated 1.20 miles of cable plant that included both coaxial and fiber cables.

Our Construction Department continues to work with VDOT on the the Wilson Bridge re-location project. The relocation od our plant is complete.

Throughout the year, the Construction Department continually works with the City of Alexandria IT Department, fielding various new location surveys for the City's I-Net sites. Additional services relating to relocation of existing fiber cable facilities had also provided for any internal site improvements conducted by the City.

The Construction Department continues to work with City Staff on the renovation of the Police Department on Mill Street.

Comcast worked with the Alexandria Police Department upgrading equipment on the CARES project.

Video On Demand hours were increased to 4,000 hours

Deployment of Comcast Digital Voice service continues to grow.



## **2006 ANNUAL REPORT**

# **CONSTRUCTION PLAN**

AUGUST 30, 2006



## **2006 ANNUAL REPORT**

**COMCAST OFFICERS AND  
BOARD OF DIRECTORS**

**AUGUST 30, 2006**

**BOARD OF DIRECTORS AND CORPORATE EXECUTIVES****Board of Directors**

<b>S. Decker Anstrom</b> President and Chief Operating Officer Landmark Communications, Inc.	<b>Edward D. Breen</b> Chairman and Chief Executive Officer Tyco International, Ltd.	<b>J. Michael Cook</b> Retired Chairman and Chief Executive Officer Deloitte & Touche LLP	<b>Ralph J. Roberts</b> Chairman Executive and Finance Committee
<b>Kenneth J. Bacon</b> Executive Vice President Housing and Community Development Fannie Mae	<b>Julian A. Brodsky</b> Non-Executive Vice Chairman	<b>Jeffrey A. Honickman</b> Chief Executive Officer Pepsi-Cola and National Brand Beverages, Ltd.	<b>Dr. Judith Rodin</b> President The Rockefeller Foundation
<b>Sheldon M. Bonovitz</b> Chairman and Chief Executive Officer Duane Morris LLP	<b>Joseph J. Collins</b> Chairman Aegis, LLC Retired Chairman and Chief Executive Officer Time Warner Cable	<b>Brian L. Roberts</b> Chairman and CEO	<b>Michael I. Sovern</b> Chairman Sotheby's Holdings, Inc.
			<b>Director Emeritus</b> <b>C. Michael Armstrong</b> Retired Chairman Comcast Corporation

**Corporate Executives**

<b>Brian L. Roberts</b> Chairman and CEO	<b>Arthur R. Block</b> Senior Vice President, General Counsel and Secretary	<b>Joseph F. DiTrollo</b> Vice President Financial Operations	<b>Charisse R. Lillie</b> Vice President Human Resources Senior Vice President Human Resources, Comcast Cable
<b>Ralph J. Roberts</b> Chairman Executive and Finance Committee	<b>Mark A. Coblitz</b> Senior Vice President Strategic Planning	<b>Marlene S. Dooner</b> Vice President Investor Relations	<b>Kenneth Mikalauskas</b> Vice President Finance
<b>John R. Alchin</b> Executive Vice President and Co-Chief Financial Officer	<b>Robert S. Pick</b> Senior Vice President Corporate Development	<b>William E. Dordelman</b> Vice President Finance	<b>Marc A. Rockford</b> Vice President and Senior Deputy General Counsel
<b>Stephen B. Burke</b> Executive Vice President and Chief Operating Officer President, Comcast Cable	<b>Lawrence J. Salva</b> Senior Vice President, Chief Accounting Officer and Controller	<b>Kamal Dua</b> Vice President Internal Audit and General Auditor	<b>D'Arcy F. Rudnay</b> Vice President Corporate Communications
<b>David L. Cohen</b> Executive Vice President	<b>C. Stephen Backstrom</b> Vice President Taxation	<b>Leonard J. Gatti</b> Vice President Financial Reporting	<b>Joseph W. Waz, Jr.</b> Vice President External Affairs and Public Policy
<b>Lawrence S. Smith</b> Executive Vice President and Co-Chief Financial Officer	<b>Payne Brown</b> Vice President Strategic Initiatives	<b>Gregg M. Goldstein</b> Vice President Corporate Development	
<b>Amy L. Banse</b> Senior Vice President Interactive Media President Comcast Interactive Media	<b>Karen Dougherty Buchholz</b> Vice President Administration	<b>Kerry Knott</b> Vice President Government Affairs	



**DIVISION EXECUTIVES**

**Comcast Cable**

**Stephen B. Burke**  
President

**David A. Scott**  
Executive Vice President  
Administration and Finance

**David N. Watson**  
Executive Vice President  
Operations

**Madison Bond**  
Executive Vice President  
Programming Administration

**David M. Fellows**  
Executive Vice President and  
Chief Technology Officer

**David A. Juliano**  
Executive Vice President  
Marketing and  
Product Development

**John Shanz**  
Executive Vice President  
National Engineering and  
Technology Operations

**Stephen E. Silva**  
Executive Vice President  
Digital Development

**Douglas Gaston**  
General Counsel

**Kevin M. Casey**  
President  
Northern Division

**William Connors**  
President  
Midwest Division

**Michael A. Doyle**  
President  
Eastern Division

**Bradley P. Dusto**  
President  
West Division

**John H. Ridall**  
President  
Southern Division

**Charles W. Thurston**  
President  
Comcast Spotlight

**Comcast Content**

**Jeff Shell**  
President

**Joseph M. Donnelly**  
Chief Financial Officer

**David T. Cassaro**  
President  
Comcast Network Sales

**Ted Harbert**  
President  
E!/Style Networks

**Gavin Harvey**  
President  
OLN

**David Manougian**  
President  
The Golf Channel

**Diane Robina**  
President  
Emerging Networks

**Rod Shanks**  
President  
AZN

**Neal Tiles**  
President  
G4

**Sandy Wax**  
President  
PBS KIDS Sprout

**Jack Williams**  
President  
Comcast SportsNet

**Comcast Interactive Media**

**Amy L. Banse**  
President

**Samuel H. Schwartz**  
Executive Vice President  
Strategy and Development

**Comcast Spectacor**

**Edward M. Snider**  
Chairman

**Fred A. Shabel**  
Vice Chairman

**Peter A. Luukko**  
President  
Comcast Spectacor Ventures

**Sanford Lipstein**  
Executive Vice President  
Finance and  
Chief Financial Officer

**Phillip I. Weinberg**  
Executive Vice President and  
General Counsel

comcast

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**Director & Executive Officer Ownership**

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- [Section 16 Filings \(Forms 3,4,and 5\)](#)
- [Shares Beneficially Owned](#)
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**Shares Beneficially Owned**

The table below indicates the number of shares beneficially owned by directors and officers detailed in the Comcast Corporation's 2004 Proxy Statement. Please see the [Proxy Statement](#) for more detailed explanation of these holdings.

Total Shares Beneficially Owned	Class A	Class A Special
John R. Alchin	1,036	1,523,889
S. Decker Anstrom	8,584	16,000
C. Michael Armstrong	2,633,050	-
Kenneth J. Bacon	15,300	-
Sheldon M. Bonovitz	20,925	188,458 38,967 <sup>1</sup>
Julian A. Brodsky	124,457	2,528,988 1,859,311 <sup>1</sup>
Stephen B. Burke	1,492	2,554,286
David L. Cohen	474	10,528
J. Michael Cook	14,359	2,300
Brian L. Roberts	3,017	12,604,024
Ralph J. Roberts		4,314,940 4,164,523 <sup>1</sup>
Dr. Judith Rodin	8,584	-
Lawrence S. Smith	1,768	1,452,752
Michael I. Sovern	14,989	-
All directors and executive officers as a group (17 persons)	2,854,673	32,057,803

(1) Represents share equivalents which will be paid at a future date partially in cash and/or in stock pursuant to an election made under our 2002 Deferred Stock Option Plan.

**Stock Ownership Policies**

Non-Employee Director Stock Ownership Policy

Executive Stock Ownership Policy

**Non-Employee Director Stock Ownership Policy**

Effective: November 1, 2003

Most Recent Revision Effective Date: January 1, 2006

**Purpose:**

To provide a guideline for the ownership of Comcast Corporation Common Stock non-employee directors of the Company.

**Policy Statement:**

It is the Company's policy to require that all non-employee directors of Comcast Corporation maintain a significant ownership position in Comcast Corporation publicly traded Common Stock, as defined in the guideline set forth herein.

**I. Ownership Guideline**

Non-employee directors will be required to own Comcast Corporation publicly traded Common Stock equal in value to at least five (5) times a director's annual retainer.

**II. Ownership Defined**

Ownership (for purposes of meeting the guideline) will be determined by summing the following amounts:

- i. 100% of the market value of Comcast Corporation Common Stock owned (1) directly by the non-employee director or his or her spouse, (2) jointly by the non-employee director and his or her spouse and/or his or her children, and (3) indirectly by a trust for the benefit of the non-employee director, his or her spouse and/or his or her minor children.
- ii. 100% of the market value of the non-employee director's Deferred Stock Unit under the Company's Deferred Stock Option Plan.
- iii. 60% of the market value of the non-employee director's Stock Fund under the Company's Deferred Compensation Plan.
- iv. 60% of the difference between the market price and the exercise price of the non-employee director's vested stock options under the Company's Stock Option Plans. (Note: A sale of a call covered by shares or vested options will be deemed a sale of the underlying shares or options and will therefore reduce the number of owned shares or vested options for purposes of this Policy).
- v. 60% of the market value of Comcast Corporation Common Stock vested and deferred under the Company's Restricted Stock Plan.

**III. Valuation Date**

Ownership as of any date for purposes of determining compliance with the guideline, will be calculated based on the closing price of the applicable class of Comcast Corporation Common Stock.

as of the trading date prior to the date of determination.

#### IV. Grace Period

Non-employee directors will be allowed a grace period to meet the guideline in full, from of initial election or appointment to the Board of Directors through the fifth December 3 thereafter, as set forth below (the "Grace Period"). For non-employee directors serving original effective date of this Policy, November 1, 2003, shall be deemed to be the date election or appointment. The Grace Period may be extended at the discretion of the Gov and Directors Nominating Committee of the Board of Directors.

Non-employee directors may satisfy the guideline in part over the course of the Grace P follows:

December 31st Following Initial Election or Appointment	Required Minimum Holdings as a Percent of Guideline
1st	20%
2nd	40%
3rd	60%
4th	80%
5th and Thereafter	100%

#### V. Compliance

Non-employee directors will annually certify whether or not they are in compliance with both (i) as of December 31 each year and (ii) as of each date (if any) during each year the non-employee director sold or otherwise disposed of stock. Certifications will be pro Cable Division's Vice President - Compensation and Benefits using the Comcast Corpora Executive Stock Ownership Policy Compliance Certification Form.

#### VI. Non-Compliance

Non-employee directors will not be permitted to sell stock until their holdings meet the minimum requirement, and then only to the extent that the director's remaining holding fall below the minimum requirement.

#### VII. Hardship Provision

Hardship exceptions may be made at the discretion of the Chairman of the Governance Directors Nominating Committee.

#### VIII. Administration and Interpretation

The Governance and Directors Nominating Committee reserves the right to interpret, amend, modify or terminate this Policy at any time.

#### Executive Stock Ownership Policy

Original Effective Date: November 1, 2003  
Most Recent Revision Effective Date: January 1, 2006

#### Purpose:

To provide a guideline for the ownership of Comcast Corporation Common Stock designated members of senior management.

**Policy Statement:**

It is the Company's policy to require that designated members of senior management of Comcast Corporation, its Cable Division and its Programming Division maintain a significant ownership position in Comcast Corporation public traded Common Stock, as defined in the applicable guideline set forth herein.

**I. Ownership Guideline**

The following designated members of senior management will be expected to own Comcast Corporation Common Stock based on the following applicable guideline:

Position	Guideline
Chief Executive Officer, President, and Chairman of the Board of Directors	At least 5 times base salary
Chairman of the Executive and Finance Committee of the Board of Directors; and Non-Executive Vice Chairman of the Board of Directors	At least 4 times base salary
Chief Operating Officer and Cable Division President; Corporate Division Executive Vice Presidents	At least 3 times base salary
Corporate Division Senior Vice Presidents; Cable Division Executive Vice Presidents; Cable Division Divisional and Business Unit Presidents; and Programming Division President	At least 1.5 times base salary

Additional employees or categories of employees may be designated as being subject to from time to time by the Governance and Directors Nominating Committee of the Board Directors.

**II. Ownership Defined**

Ownership (for purposes of meeting the applicable guideline) will be determined by the following amounts:

i. 100% of the market value of Comcast Corporation Common Stock owned (1) directly by the employee or his or her spouse, (2) jointly by the employee and his or her spouse and/or his or her children, and (3) indirectly by a trust for the benefit of the employee, his or her spouse and/or his or her minor children.

ii. 100% of the market value of the employee's Deferred Stock Units under the Company's Deferred Stock Option Plan.

iii. 100% of the market value of Comcast Corporation Common Stock credited to employee's account under the Company's Employee Stock Purchase Plan. (Note: Employees are required under this Policy to retain shares of Comcast Corporation Common Stock credited to his or her brokerage account under the Employee Stock Purchase Plan for a period of one hundred eighty (180) days from the date credited. Thereafter, any such shares may be disposed in accordance with law and this Policy.)

iv. 60% of the market value of the employee's Stock Fund under the Company's Deferred Compensation Plan.

v. 60% of the difference between the market price and the exercise price of the employee's vested stock options under the Company's Stock Option Plans. (Note sale of a call covered by shares or vested options will be deemed a sale of the underlying shares or options and will therefore reduce the number of owned shares or vested options for purposes of this Policy).

vi. 60% of the market value of Comcast Corporation Common Stock owned in the Company's Retirement-Investment (401(k)) Plan.

vii. 60% of the market value of Comcast Corporation Common Stock vested and deferred under the Company's Restricted Stock Plan.

### III. Valuation Date

Ownership as of any date for purposes of determining compliance with the applicable guideline will be calculated based on the closing price of the applicable class of Comcast Corporation Common Stock as of the trading date prior to the date of determination.

### IV. Grace Period

Employees will be allowed a grace period to meet the applicable guideline in full, from the date of initial hire through the fifth December 31st thereafter, as set forth below (the "Grace Period"). For employees employed as of the original effective date of this Policy, November 1, 2003, the date of hire is deemed to be the date of hire. The Grace Period may be extended at the discretion of the Board of Governance and Directors Nominating Committee.

Designated employees may satisfy the guideline in part over the course of the Grace Period as follows:

December 31st Following date of Hire	Required Minimum Holdings as a Percent of Guideline
1st	20%
2nd	40%
3rd	60%
4th	80%
5th and Thereafter	100%

### V. Compliance

Employees will annually certify whether or not they are in compliance with this Policy by December 31 prior to the year of the year in which the certification is made, and (ii) as of the date (if any) during the year prior to the year in which the certification is made on which the employee sold or otherwise disposed of stock. Certifications will be provided to the Chief Executive Officer - Compensation and Benefits using the Comcast Corporation Executive Stock Ownership Policy Compliance Certification Form.

### VI. Non-Compliance

Designated employees will not be permitted to sell or otherwise dispose of stock until they meet the applicable minimum requirement, and then only to the extent that the employee's remaining holdings do not fall below the minimum requirement. In determining whether an employee is in compliance, the Board of Governance and Directors Nominating Committee may take into account any non-compliance that occurs solely or primarily as a result of a decline in the price of the stock.

### VII. Hardship Provision

Hardship exceptions, upon the recommendation of senior management, may be made b  
Chairman of the Governance and Directors Nominating Committee.

**VIII. Administration and Interpretation**

The Governance and Directors Nominating Committee reserves the right to interpret, ch  
amend, modify or terminate this Policy at any time.

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## **2006 ANNUAL REPORT**

COMCAST CABLE TELEVISION  
CHANGES  
AUGUST 30, 2006



## **CHANNEL CHANGES**

July 1, 2005 – June 30, 2006

On September 3, 2005.

- Comcast provided a HBO free preview from September 3 through September 7, 2005.

On September 30, 2005,

- We launched PBS Kids Sprout, a Digital Classic service on channel 128. PBS Kids Sprout was a new network for kids from Comcast and our friends at PBS. It provides preschool age children and their families with safe, educational and entertaining programming that encourages and enhances learning and development.
- We launched Movieplex, a Digital Classic on channel 148. Movieplex showcases each of the seven Encore Thematic movies channels; a different theme each day. MOVIEplex showcases the best of the Starz!/Encore themes all week long, with a different Encore theme channel each day. MOVIEplex provides over 200 distinct titles each month with a different movie every night in prime time.
- We launched Lifetime Movie Network, a Digital Plus service on channel 119; which gives movie lovers even more to love. The only all movie network for women, Lifetime Movies provides your favorite stars and favorite movies twenty-four hours a day seven days a week.
- We launched Logo, a Digital Plus service on channel 193. Logo is a gay and lesbian-themed channel from the people at MTV Networks.
- We launched AZN, a Digital Classic service on channel 108. AZN is a new network aimed at the growing Asian American population which will feature Asian and Bollywood films, dramas, anime, Asian pop music, documentaries, sports, originals and Asian Language news programs.
- VH-1 Soul migrated to channel 144, a Digital Classic service.
- VH-1 Country migrated to channel 145, a Digital Plus service.

On December 3, 2005

- Comcast provided a Showtime free preview from 6AM on Saturday, December 3, 2005 through to midnight Monday, December 5.

On December 21, 2005,

- We consolidated two tiers of Hispanic programming into one, thus providing more Hispanic programming to some our customers. Canal Sur, EWTN en Espanol, Grandes Documentales, Canal 24 Horas and Gol TV en Espanol became a part of the CableLatino Package. The full Package consists of :

Discovery Espanol on channel 601

CNN Espanol on channel 602

Fox Sports Espanol on channel 603  
Toon Disney Espanol on channel 604  
MTV Espanol on channel 605  
History Channel en Espanol on channel 606  
CineLatino on channel 608  
CASA on channel 609  
Cine Mexicano on channel 610  
Grandes Documentales on channel 619  
Canal 24 – Horas on channel 621  
Gol TV en Espanol on channel 622  
Canal Sur on channel 628  
EWTN en Espanol on channel 637

- Canal 52 on channel 652, which was a part of the CableLatino Selecto Total tier, moved to Digital Classic service.
- We repositioned G4/Tech TV from channel 81 to channel 78; it remained an expanded basic channel.
- We repositioned Travel from channel 80 to channel 67; it remained an expanded basic channel.
- We repositioned WGN from channel 67 to channel 21; it remained a limited basic channel.
- We repositioned Telemundo from channel 21 to channel 16; it remained a limited basic channel.

On January 1, 2006,

- We migrated Univision from channel 15 to channel 14; it remained a Limited Basic Service.
- We migrated Telefutera from channel 14 to channel 15; it remained a Limited Basic Service.

On March 17, 2006,

- Comcast provided a HBO free preview from Friday, March 17 through Tuesday, March 21, 2006.

On March 31, 2006,

- Comcast provided a Showtime free preview from March 31, 2006 through April 2, 2006

On April 15, 2006,

- Comcast launched the Family Tier to address the concerns citizens have regarding television programming. Customers are required to subscribe to Limited Basic Service, but can supplement their service with the Family Tier. All Family Tier channels are G rated programming. Customers who subscribe to the Family Tier can have the services on one or more outlets, or request to have the Limited Basic Service on other television sets.

Channels making up the Family Tier are:

CNN Headline News on Channel 28  
Disney on channel 44  
DIY (Do it Yourself) on channel 121  
Discovery Kids on channel 130  
The Food Network on channel 54  
HGTV (Home and Garden TV) on channel 52  
National Geographic on channel 109  
Nickelodeon on channel 43  
Nick Games & Sports on channel 133  
The Science Channel on channel 110  
PBS Kids Sprout on channel 128  
TBN (Trinity Broadcast Network) on channel 290  
Toon Disney on channel 135  
The Weather Channel on channel 27

On May 16, 2006,

- We launched IndiePlex as a Digital Classic service on channel 167. IndiePlex showcases independent films from several genres, including such well-known independent films as *Clerks*, *Trainspotting* and *The Piano*.
- We launched Retroplex as a Digital Classic service on channel 168. RetroPlex airs movies focuses on memorable movies from the 1950s, 1960s and 1970s, such as *The French Connection*, *West Side Story* and *Rear Window*.
- We launched Current TV as a Digital Classic service on channel 107. Current TV is a non-traditional channel that carries viewer created content. Current online members vote for short clips to be carried on the channel. It profiles interesting people on the rise, intelligence on trends as they spring up, and international news from new perspectives.
- We removed the West Coast premium feeds of Encore Drama on channel 159 and Encore Mystery on channel 155.

On May 17, 2006,

- We migrated Great American Country from Basic Plus on channel 96 to Digital Plus on channel 147.
- The following channels will be removed from the cable television line-up.  
Encore True Stories West, a Digital Plus service on channel 159  
Encore Action West, a Digital Plus service on channel 153  
The New Encore West, a Digital Plus service on channel 151  
Flix West, a Digital Plus service on channel 171  
Encore Love Stories West, a Digital Plus service on channel 157  
Encore Mystery West, a Digital Plus service on channel 155  
Sundance West, a Digital Plus service on channel 166  
Encore Westerns West, a Digital Plus service on channel 161  
Action Max West, a Premium Service on channel 326  
HBO Family West, a Premium Service on channel 309  
HBO Signature West, a Premium Service on channel 308

HBO Plus West, a Premium Service on channel 307  
HBO West, a Premium Service on channel 306  
HBO Latino West, a Premium Service on channel 312  
Cinemax West, a Premium Service on channel 322  
MoreMax West, a Premium Service on channel 323  
Showtime Beyond West, a Premium Service on channel 349  
Showtime TOO West, a Premium Service on channel 344  
Showtime 3 West, a Premium Service on channel 345  
Showtime West, a Premium Service on channel 343  
Showtime Extreme West, a Premium Service on channel 348  
Starz! West, a Premium Service on channel 376  
Starz! Cinema West, a Premium Service on channel 380  
The Movie Channel Extra West, a Premium Service on channel 353  
The Movie Channel West, a Premium Service on channel 351

On June 9, 2006,

- We launched ESPN2 in High Definition on channel 253.

On June 15, 2006,

- We added Spice Hot as a Pay Per View Service on channel 547.
- We removed Hot Choice, a Pay Per View Service on channel 506.
- We removed Pleasure, a Pay Per View Service on channel 547.
- We removed Spice, a Pay Per View Service on channel 545
- We removed Spice 2, a Pay Per View Service on channel 546.
- We migrated WNVC -MHz from channel 24 to channel 205; it remains part of the limited basic service.
- We migrated WNVT-MHz2 from channel 25 to channel 283; it remains a limited basic service.
- We launched WNVC-Link TV on channel 186 as a limited basic service. Link TV broadcasts programs that engage, educate and activate viewers to become involved in the world. These programs provide a unique perspective on international news, current events, and diverse cultures, presenting issues not often covered in the U.S. media. Link TV connects American viewers with people at the heart of breaking events, organizations in the forefront of social change and the cultures of an increasingly global community.
- We launched WNVC-Nigerian TV on channel 677 as a limited basic service. Nigerian TV provides access to news about Nigeria, information on the Nigerian Capital Market, information on Nigerian hotels and travel, shopping, and Nigerian business.
- We launched WNVC-Russian World TV on channel 657 as a limited basic service. Russian World TV augments the already diverse line up with daily news and analytic programs, talk shows, children's shows and cultural entertainment sitcoms and movies.
- We migrated C-Span from channel 76 to channel 24; it remains a Limited Basic Service.
- We migrated C-Span 2 from channel 77 to channel 25; it remains a Limited Basic Service.



## **2006 ANNUAL REPORT**

### **CUSTOMER OPINION SURVEY**

**AUGUST 30, 2006**

**2006**

**Comcast**

**Cable Television**

**Subscriber Survey**

**Alexandria, Virginia**



## *2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia*

### SURVEY METHODOLOGY

All of the following charts and graphs are based on responses from a structured phone survey conducted with a random probability sample of 807 Alexandria active cable television customers. Calling began on July 7th and was completed August 19th, 2006. Calls were placed during a mix of daytime and evening hours on weekdays as well as daytimes on Saturdays.

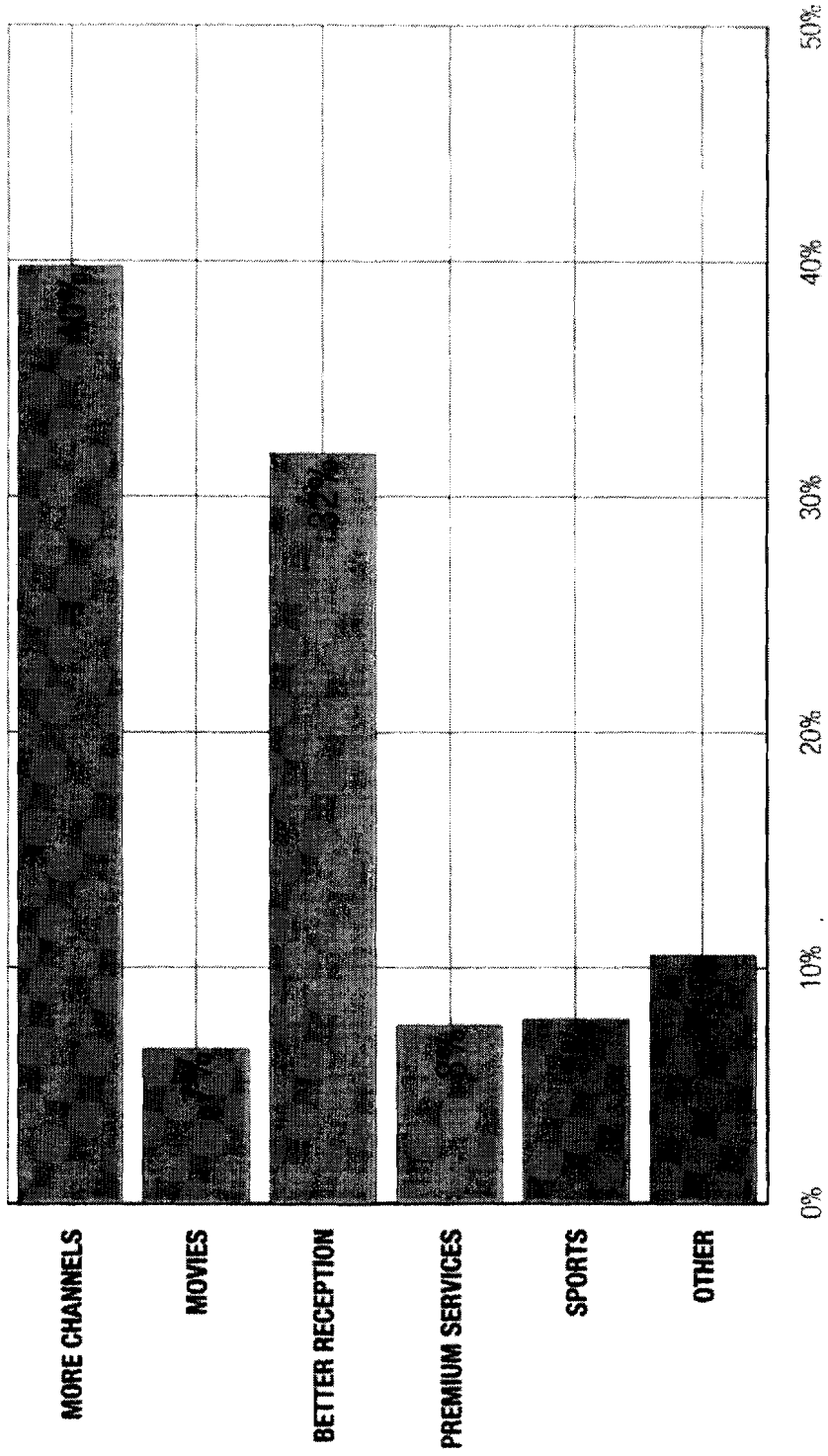
All surveys were completed from Q7's fully supervised calling center. Prior to the beginning of data collection, all surveyors were trained specifically on each survey question and its response set. At least once per shift, each surveyor was monitored on-line while conducting an actual survey. Some of the questions asked were based on previous versions of the same study completed in earlier years.

In order to generate a random probability of households, the calling list provided to Q7 was randomized prior to outbound dialing. The completed sample response includes 807 customers. This sample size will generate data useful in making business decisions based on commonly accepted statistical norms at the 95% confidence level with a margin of error of +/-3.43%, assuming an overall population of approximately 65,000.



2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

What is the major reason you subscribe to cable television at this time?





## 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

What is the major reason you subscribe to cable television at this time?  
"Other" answers...

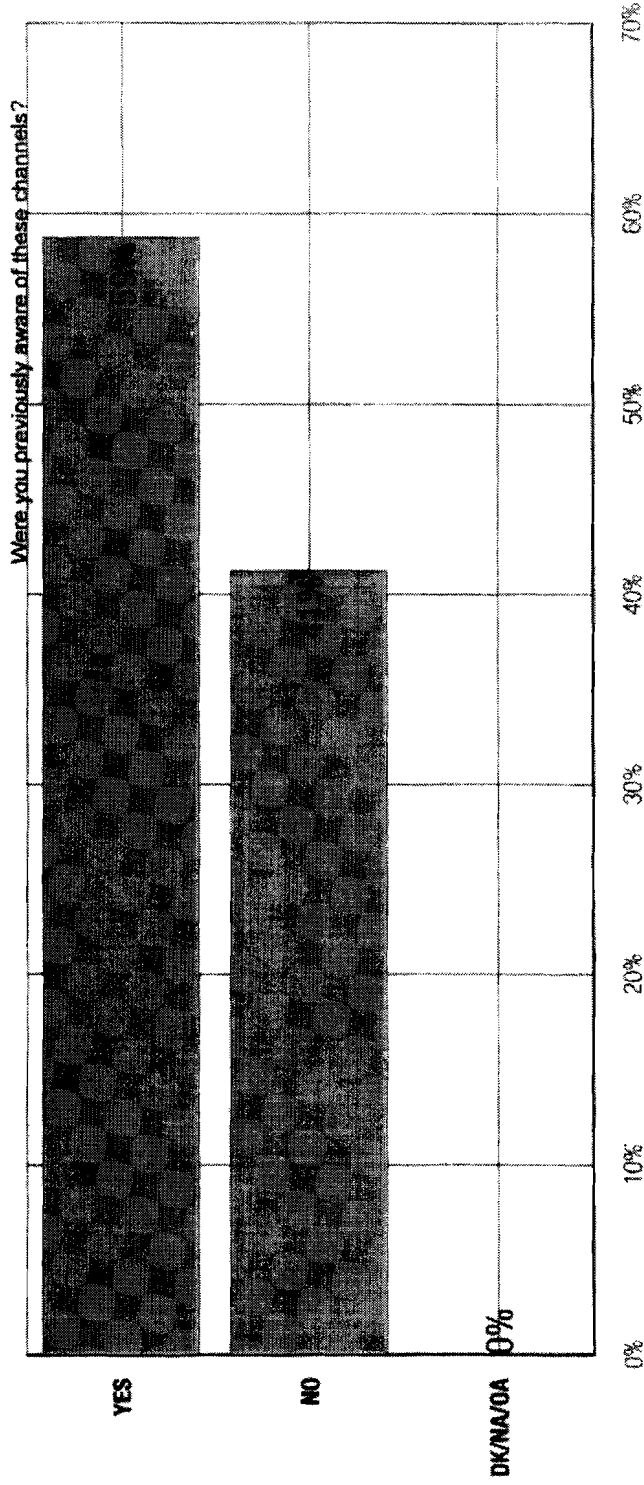
<i>Reason</i>	<i>Answers</i>
<b>The Only Choice</b>	<b>38</b>
<b>High Speed</b>	<b>13</b>
<b>New To Area</b>	<b>7</b>
<b>Needed Basic Service</b>	<b>7</b>
<b>HD Channels</b>	<b>3</b>
<b>Can't Get Satellite</b>	<b>3</b>
<b>Pricing</b>	<b>3</b>
<b>News</b>	<b>2</b>
<b>Disney</b>	<b>1</b>



## 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Comcast currently has five access channels:  
The City Government Access Channel on Channel 70,  
The Educational Access Channels on 71, 72, 73  
and The Community Channel on Channel 69.

Were you previously aware of these channels?



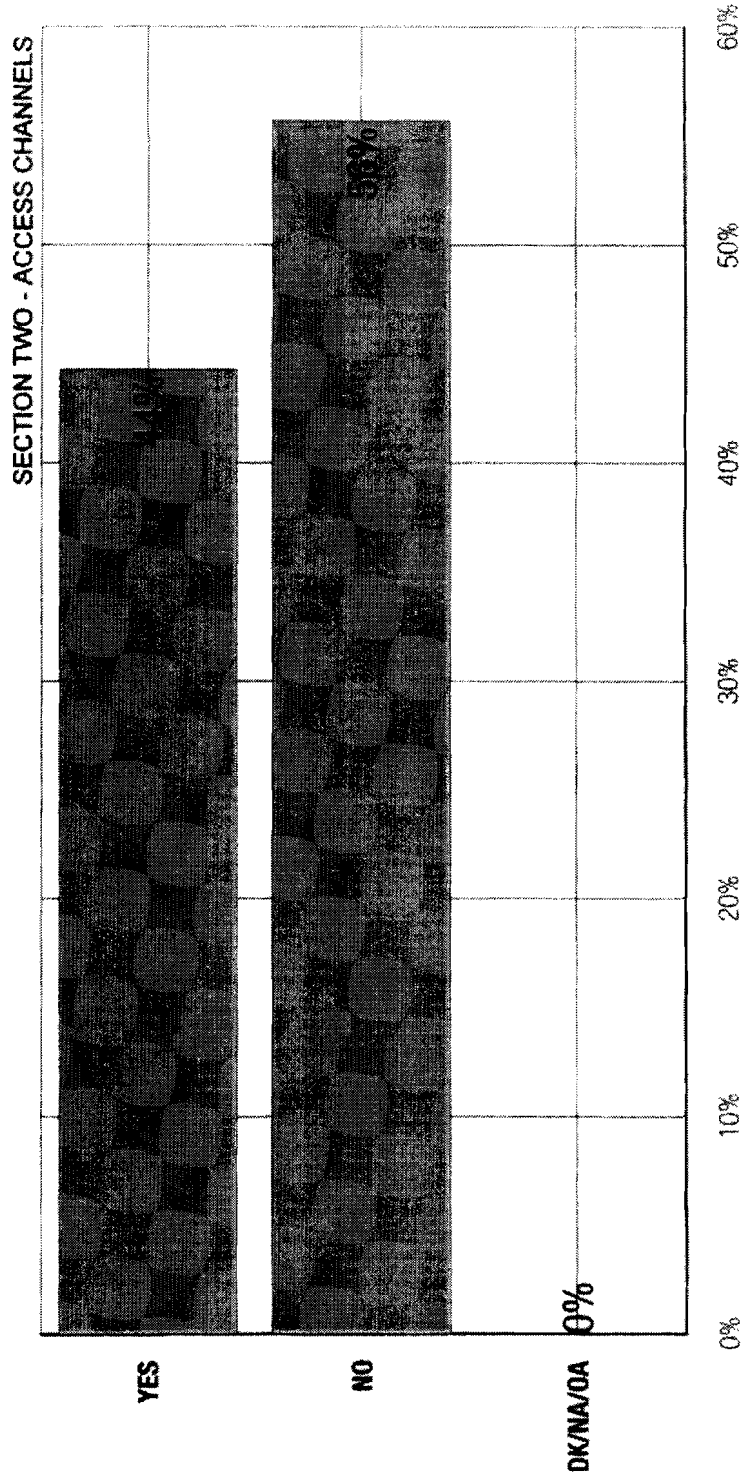
■ 1).



# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Channel 70 is the local government access channel which provides brief announcements about upcoming government meetings and events, and broadcasts live City Council meetings, Planning Commission meetings, Board of Zoning Appeals meetings, and Board of Architectural Review meetings.

Do you watch Channel 70 programming?



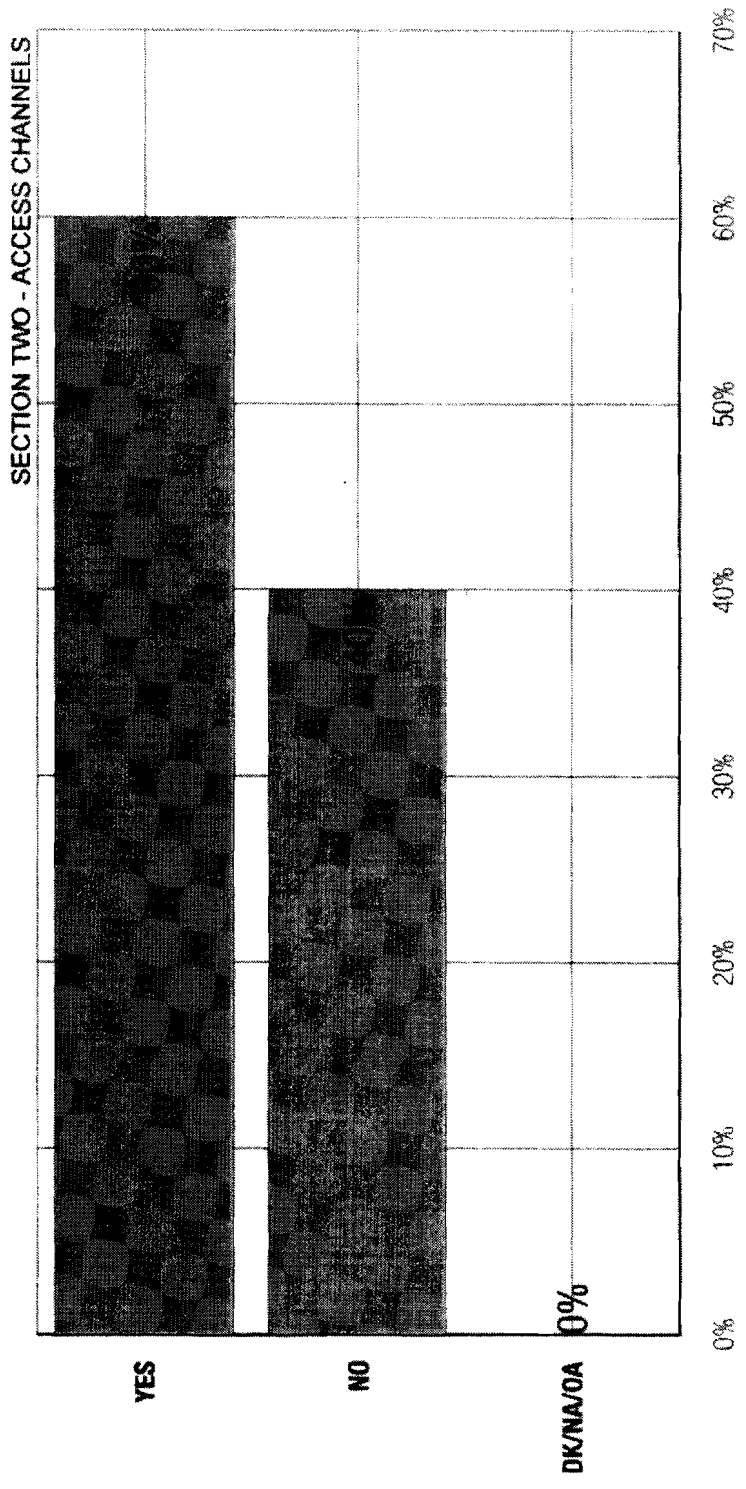
■ 2).



2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia



Have you ever watched an Alexandria City Council meeting?

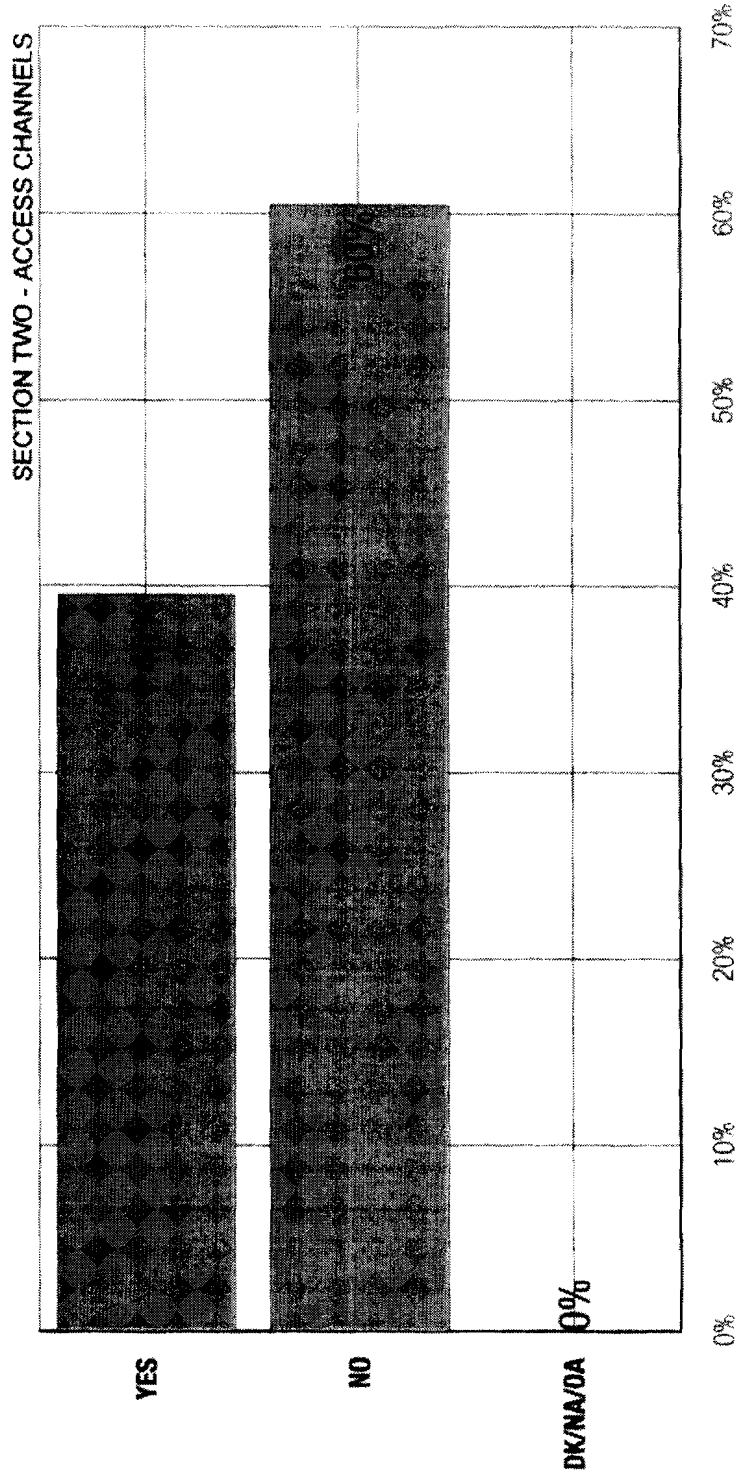


■ 2a)



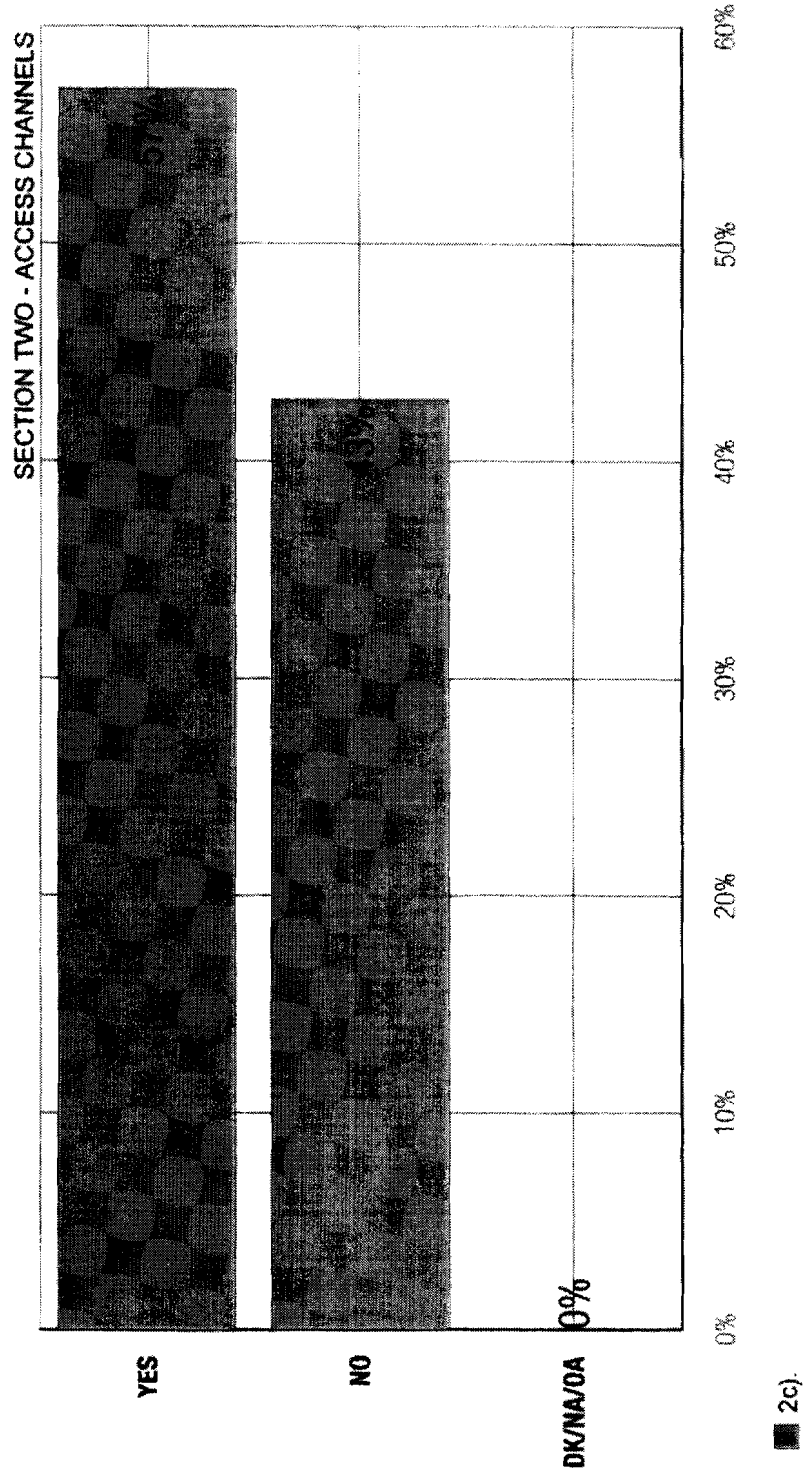
# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Have you ever watched a Saturday public hearing?



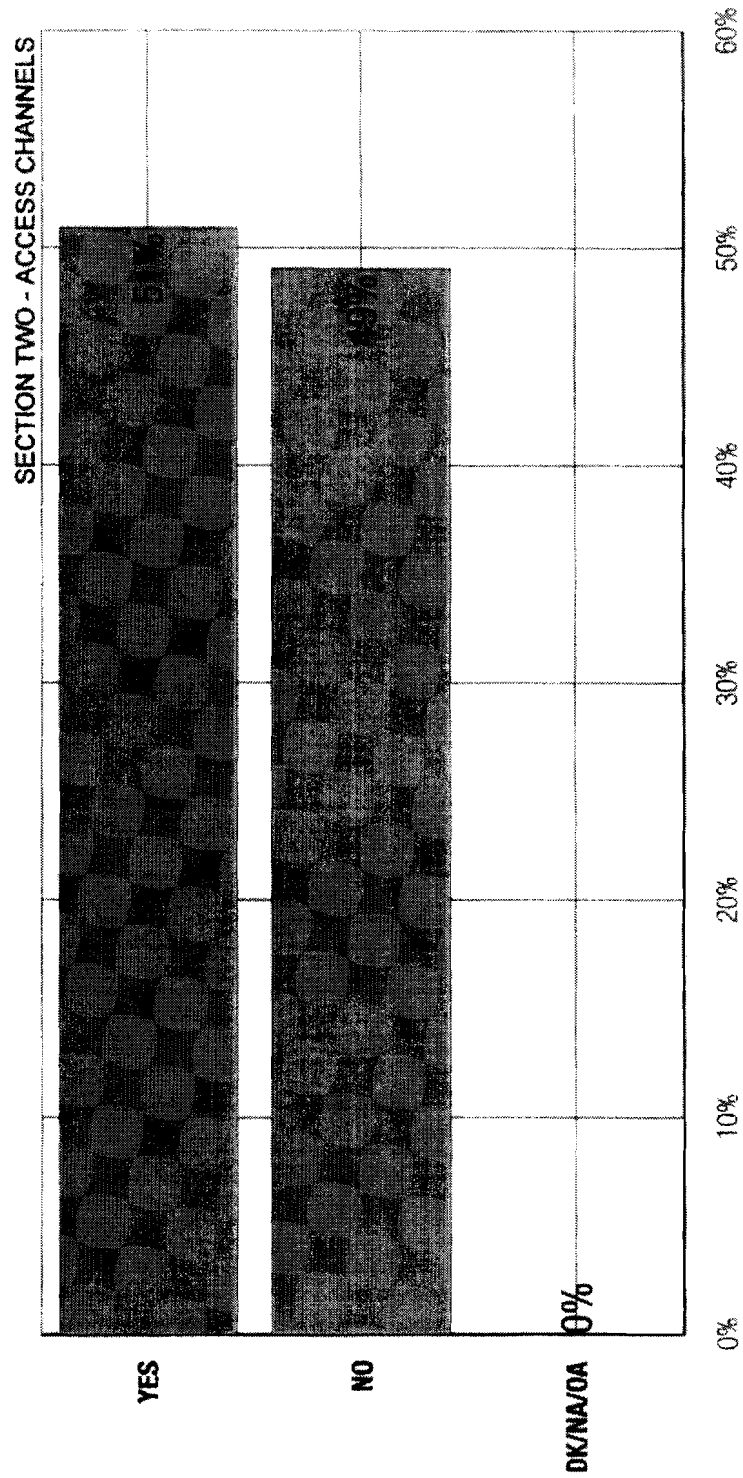
# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Have you ever watched a Planning Commission meeting?



# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Have you ever watched a Board of Zoning Appeals meeting?

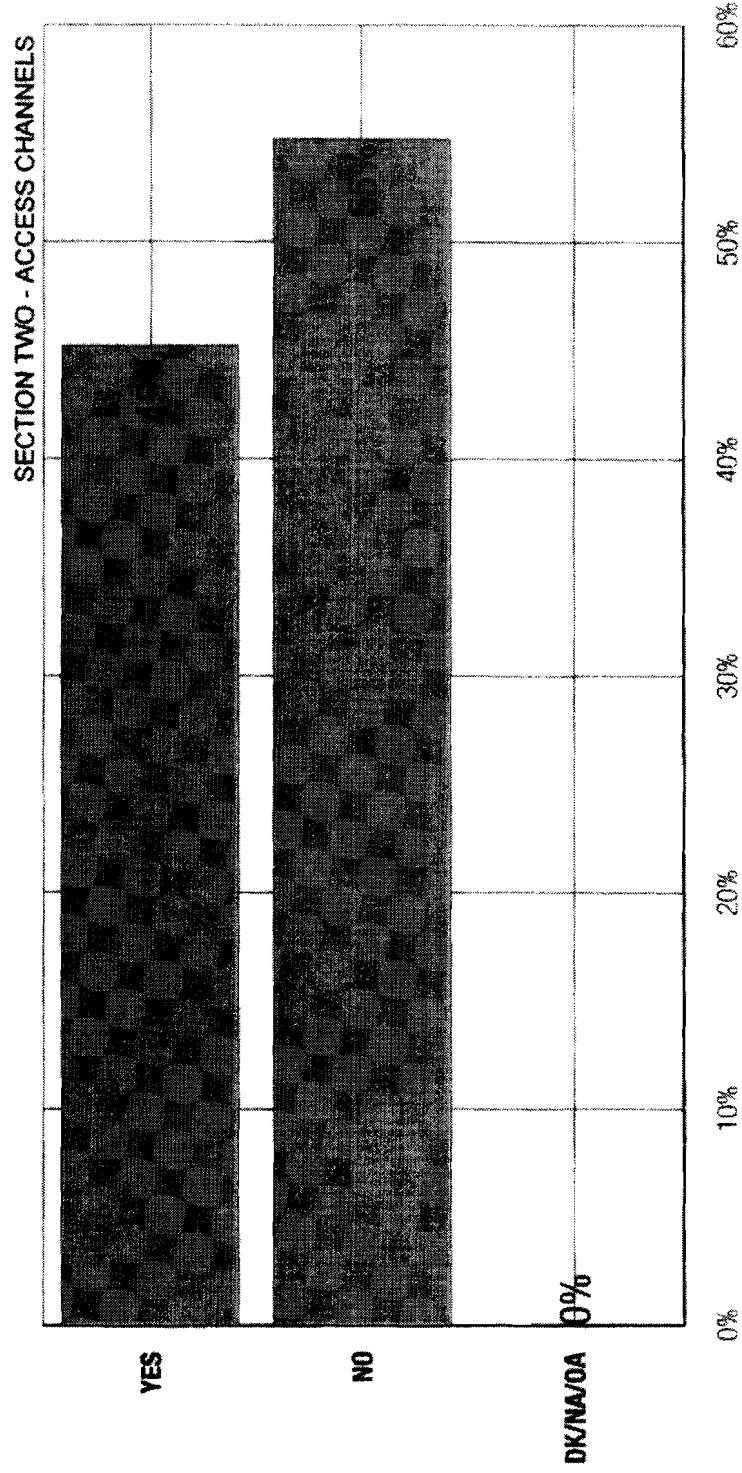


■ 2d)



# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Have you ever watched a Board of Architectural Review -  
Old and Historic District meeting?



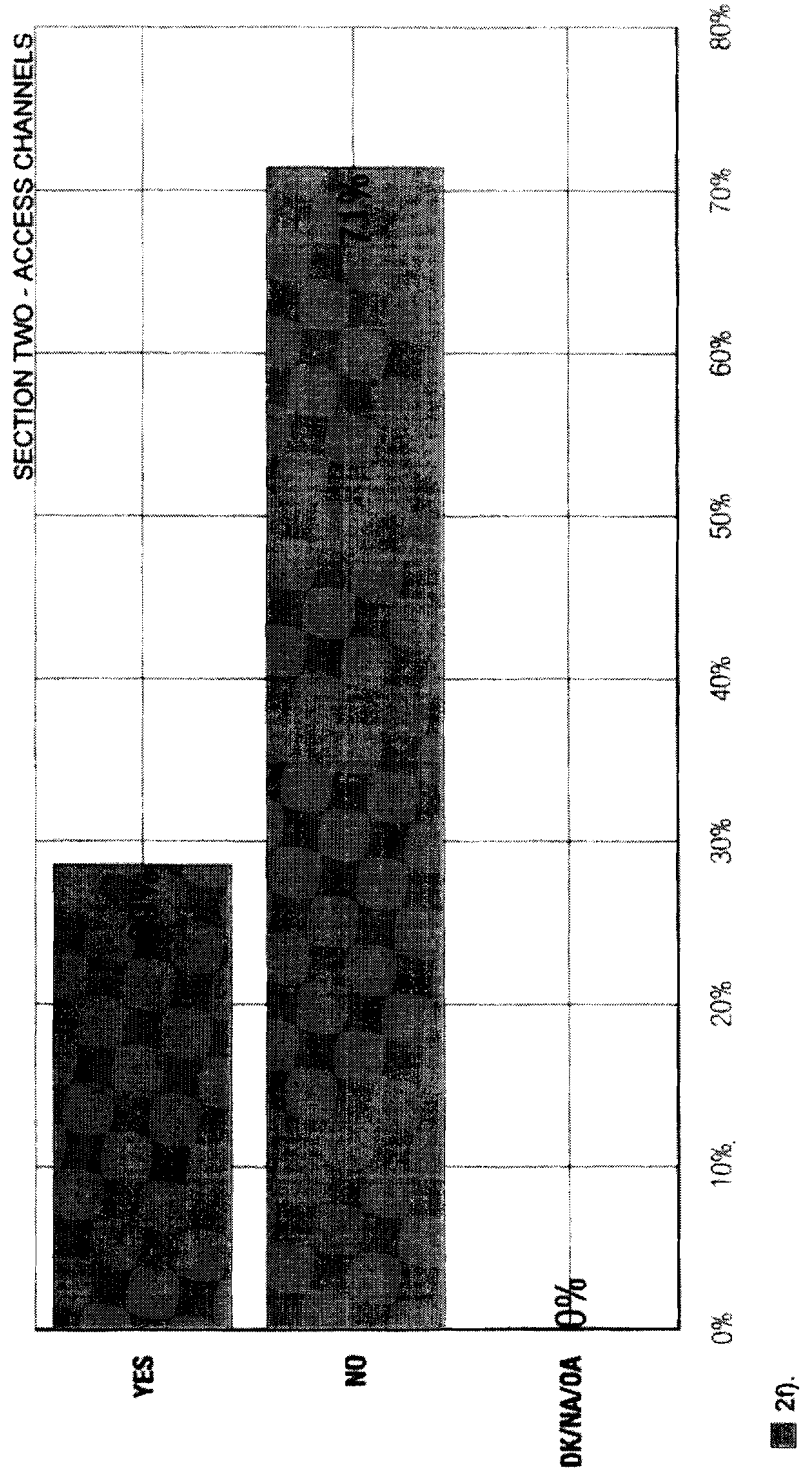
■ 2e).





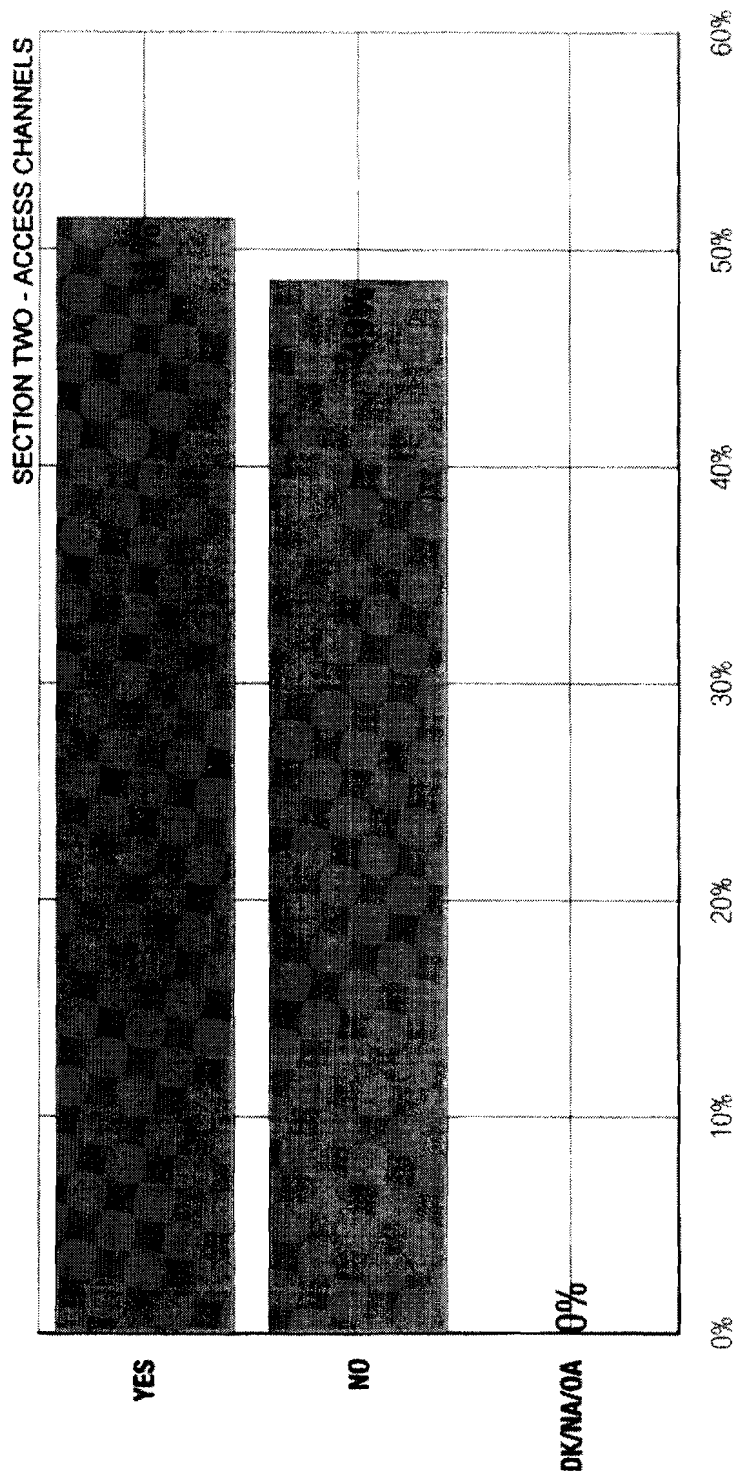
2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Have you ever watched a Board of Architectural Review - Parker-Gray District meeting?



2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Have you ever watched a School Board meeting?

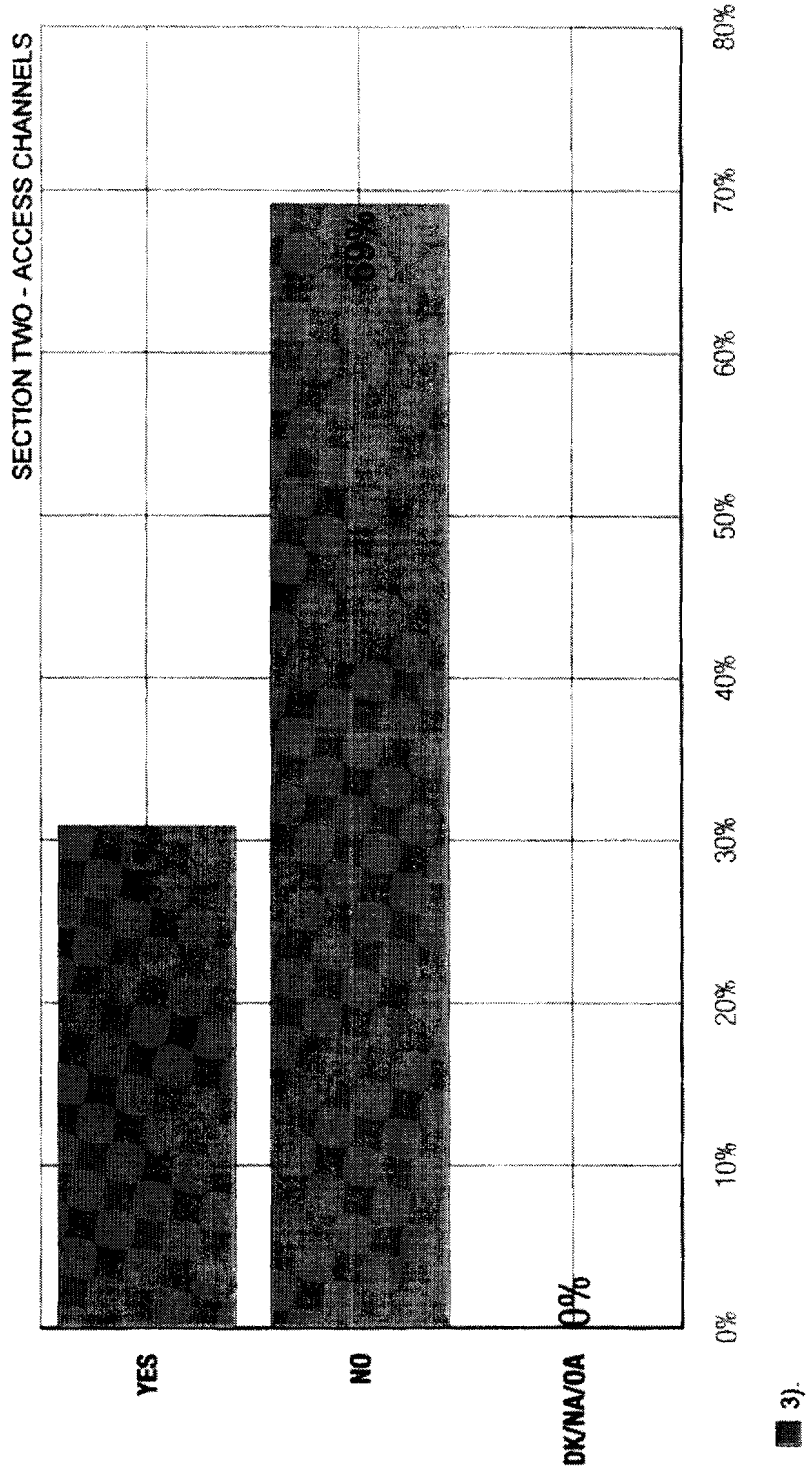


■ 2g)



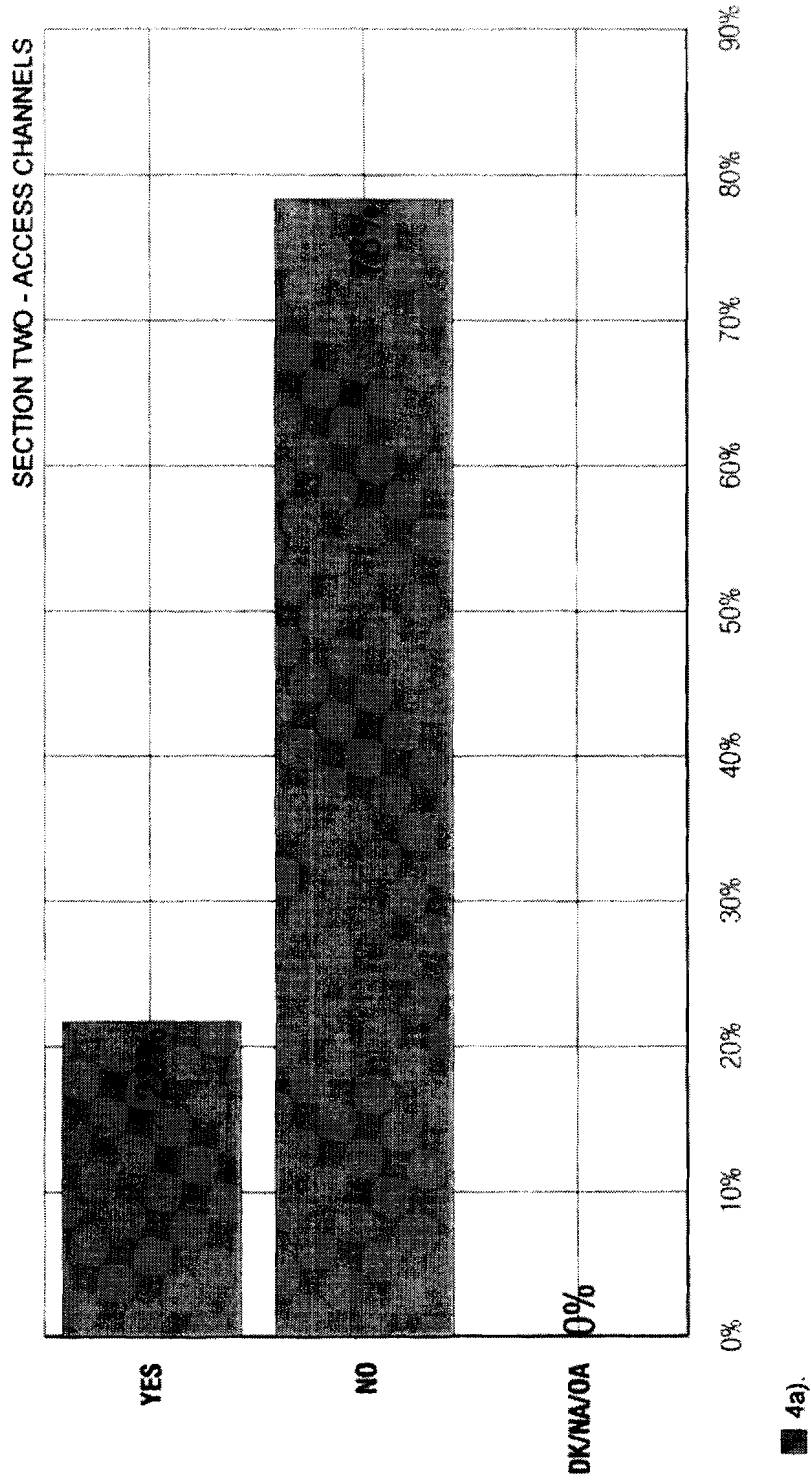
# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Would you be interested in specific programming that highlights City services, programs or projects?



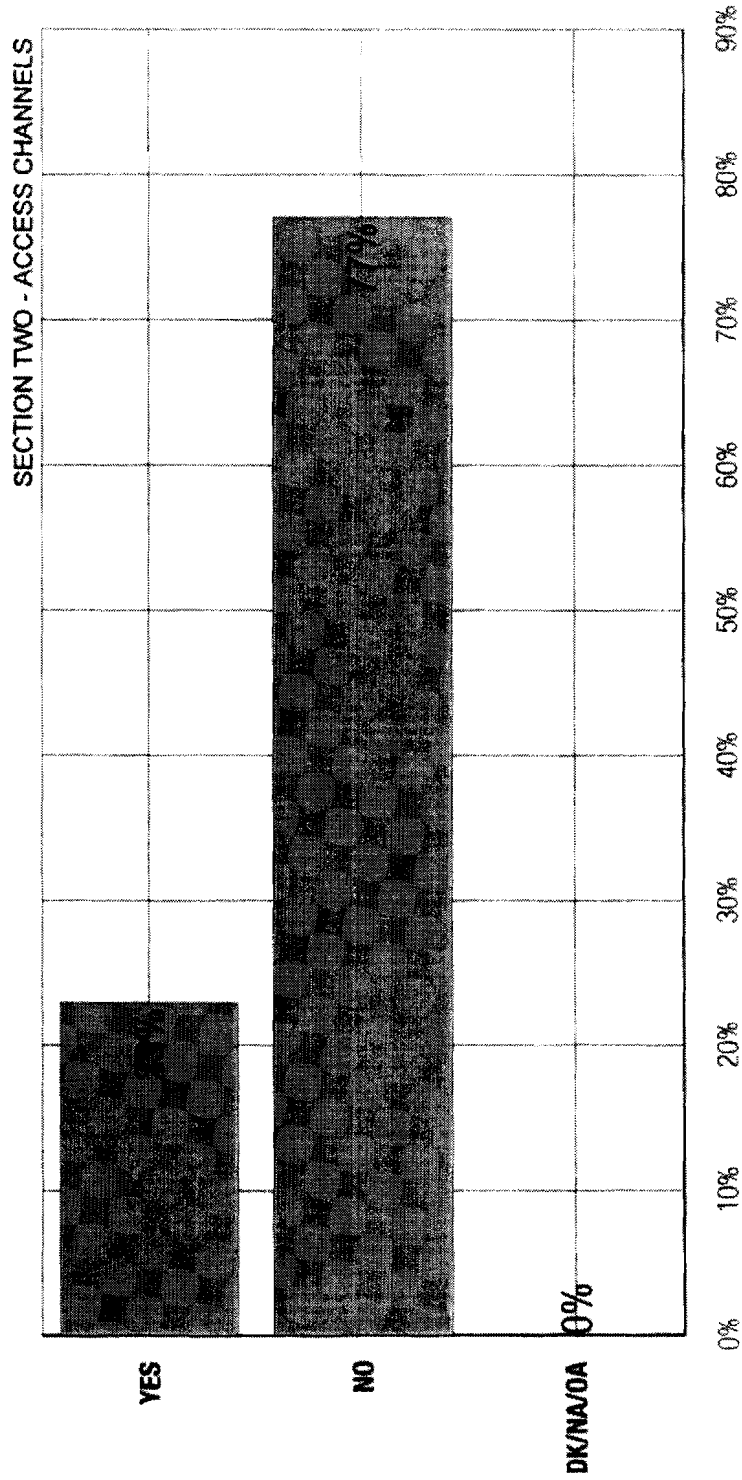
Channels 71, 72 and 73 are the educational access channels. Channel 72 broadcasts telecourses from Northern Virginia Community College. Channel 73 broadcasts telecourses from George Mason University and Channel 71 for cable ready TV's is used by the Alexandria City Public School System.

### Have you ever watched the telecourses sponsored by Northern Virginia Community College?



2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Have you ever watched the telecourses sponsored by George Mason University?

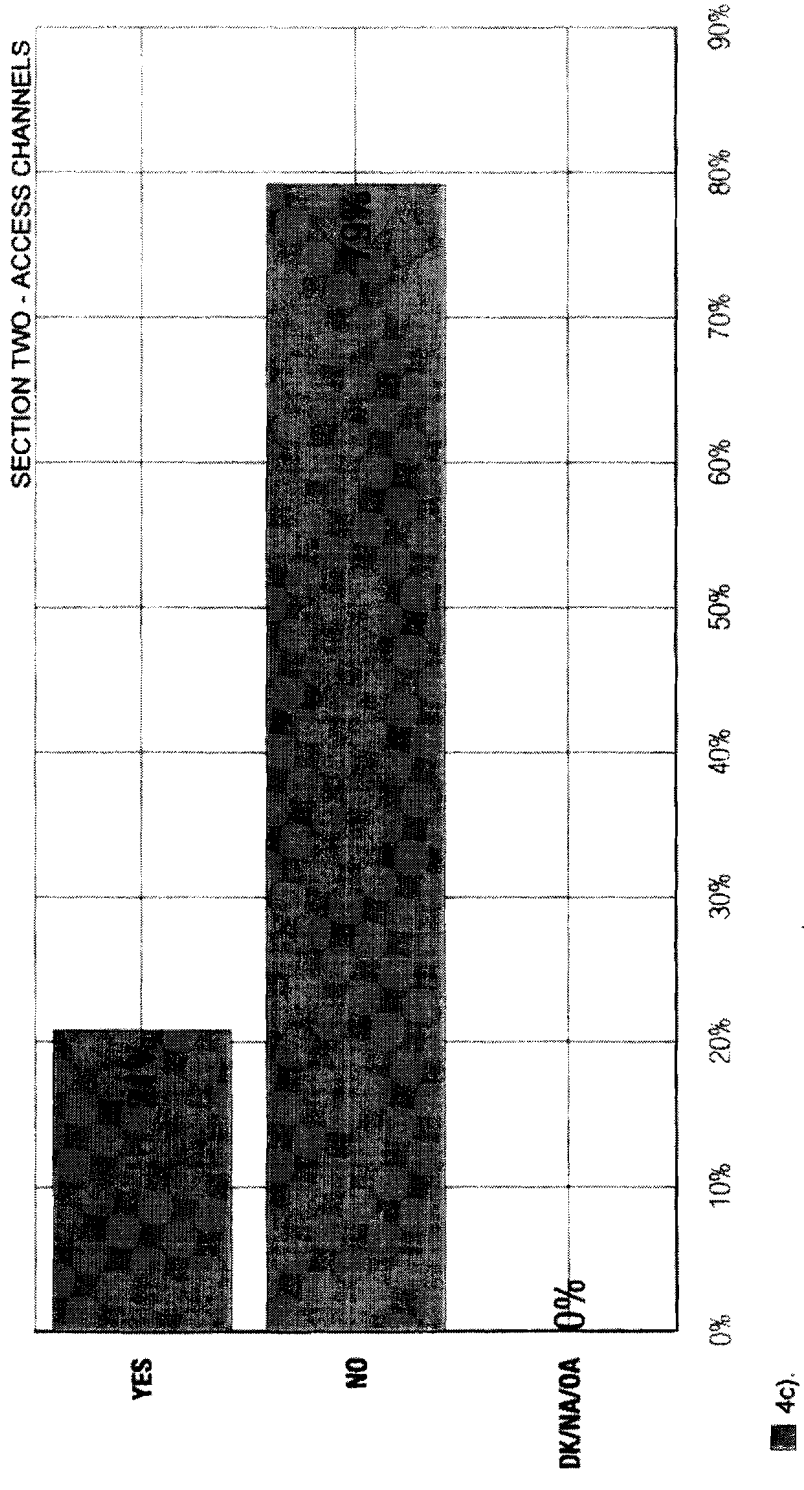


■ 4b).



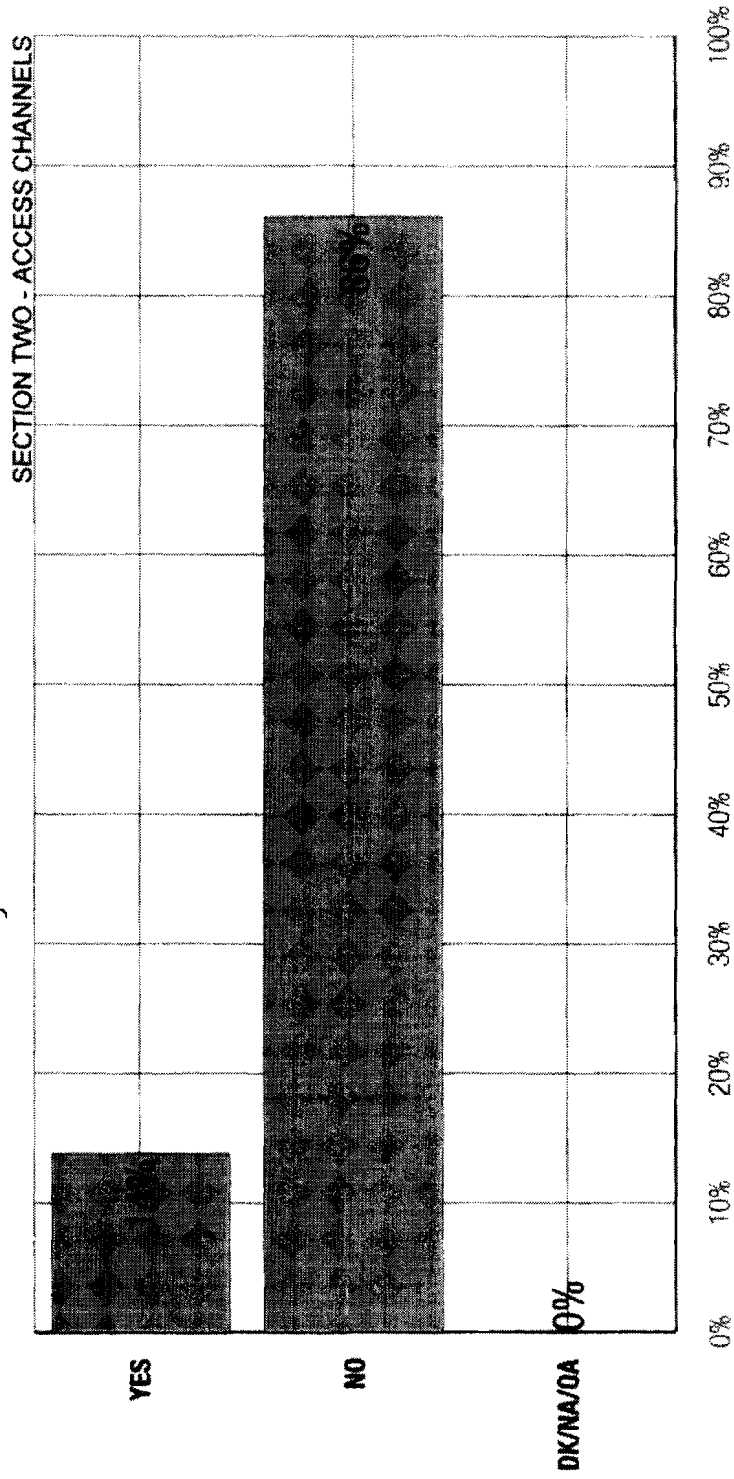
2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Have you ever watched any of the programming sponsored by the Alexandria City Public School?



2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Do you presently have children enrolled in the Alexandria Public School System?

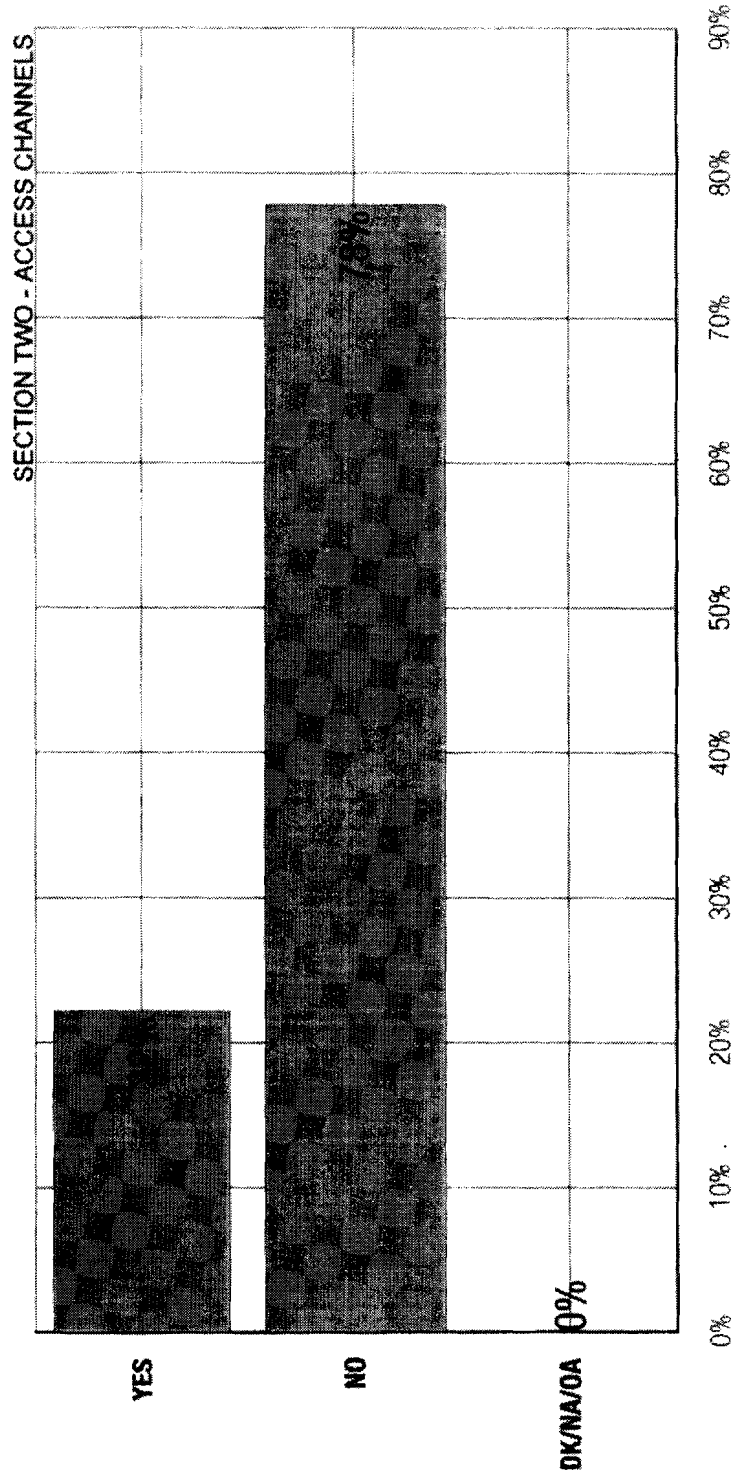


■ 4d).



# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Instructional programming can also be seen on MHZ2/Channel 25. Have you ever watched instructional programming sponsored by MHZ2/Channel 25?



■ 4e)



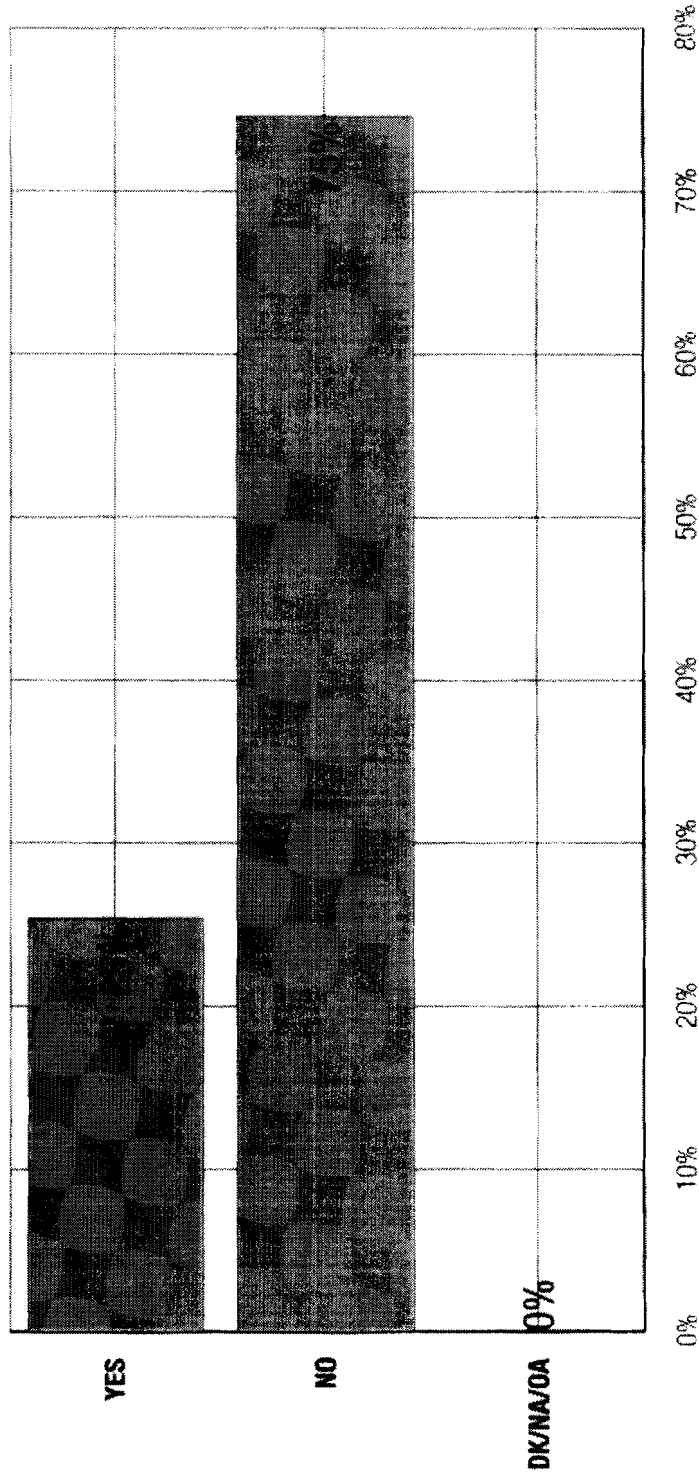


# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Comcast produces local programming as a public service to Alexandrians. These programs are shown on Channel 69 in the evenings during the week and on the weekends.

## Have you ever watched the programming on Channel 69?

SECTION THREE - COMCAST COMMUNITY TELEVISION CHANNEL 69

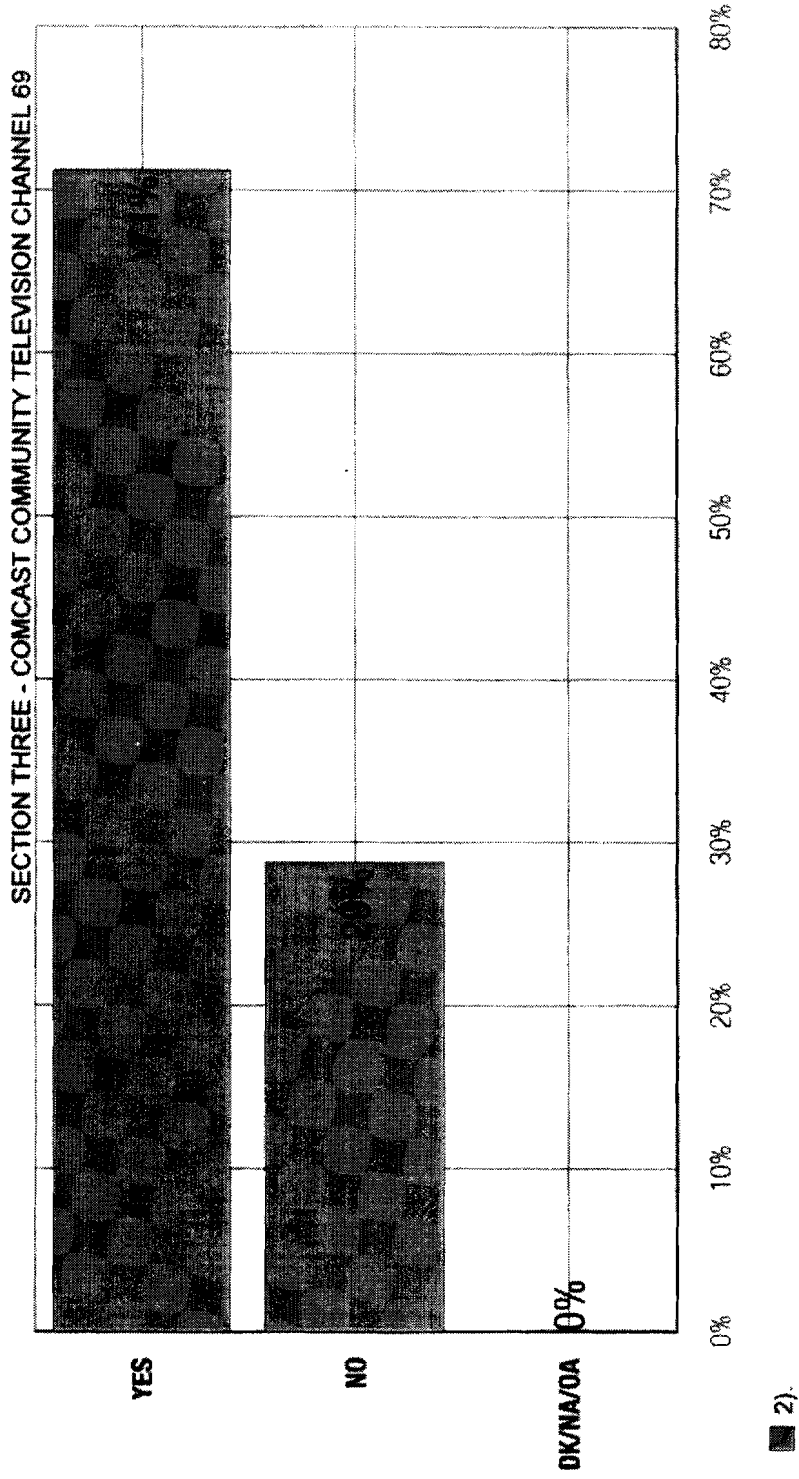


■ 1)



*2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia*

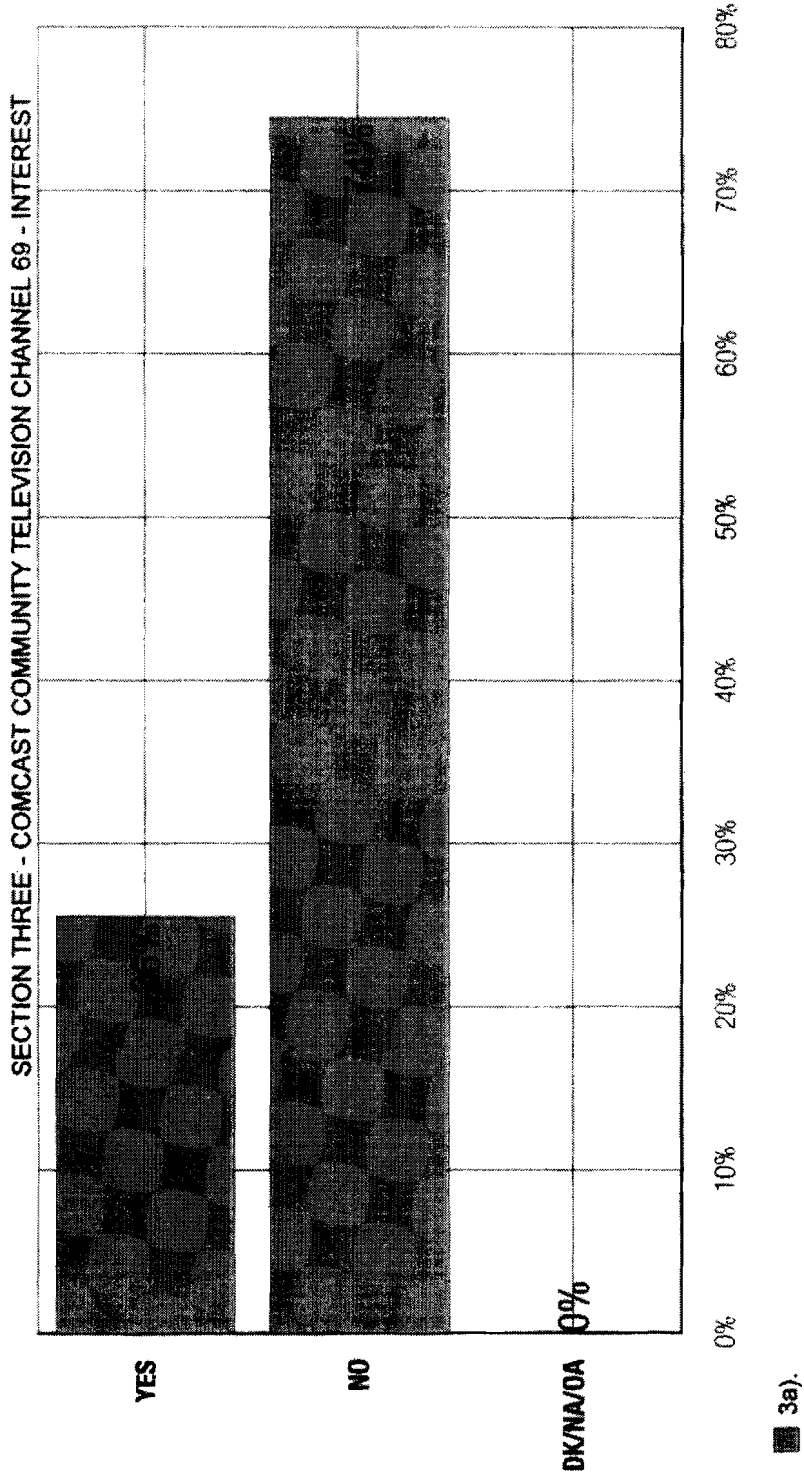
Have you ever watched the Community Bulletin Board on Channel 69 from 10:00 am to 5:30 am daily?



# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

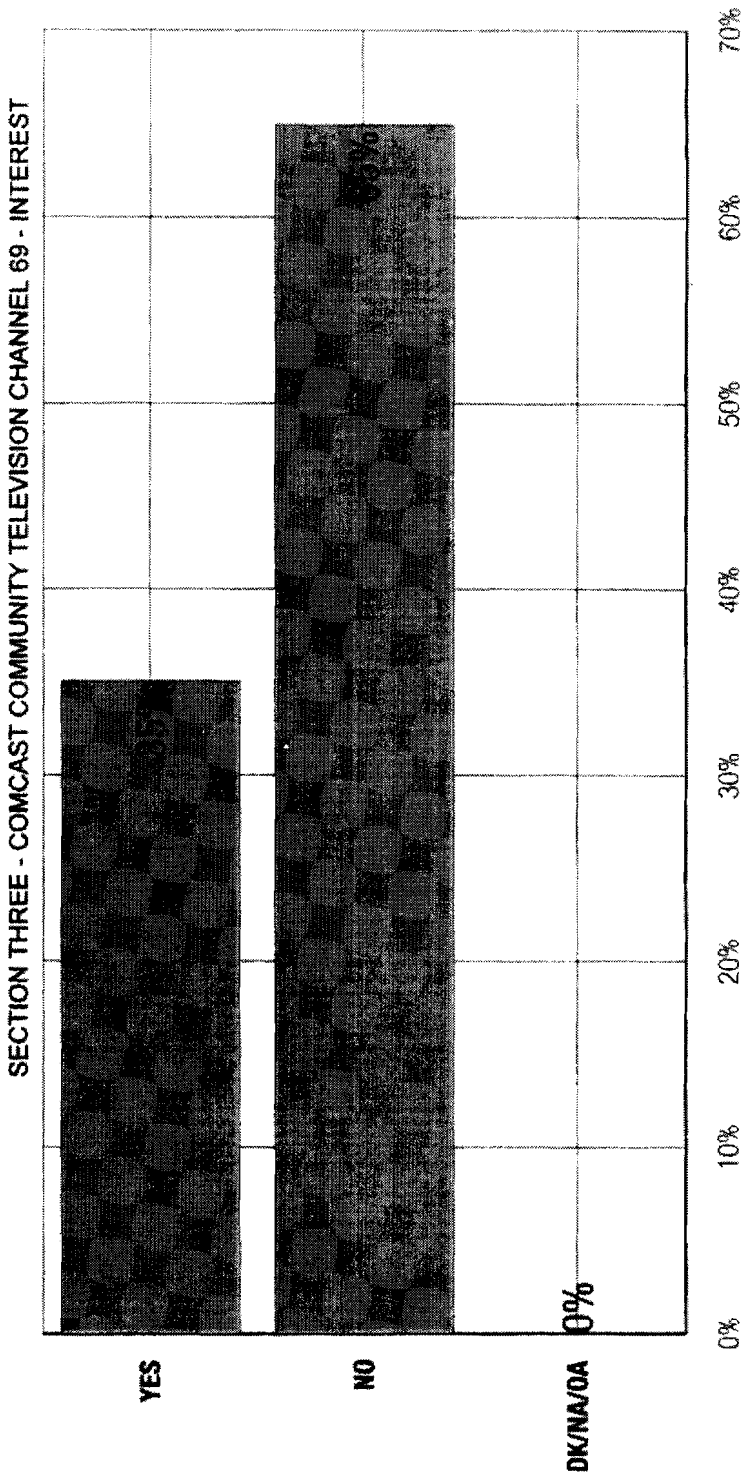
Are you interested in any of the following categories of programming that are currently shown on Channel 69...

Local high school sports?



# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Are you interested in any of the following categories of programming that are currently shown on Channel 69...  
Civic/Informational Shows?

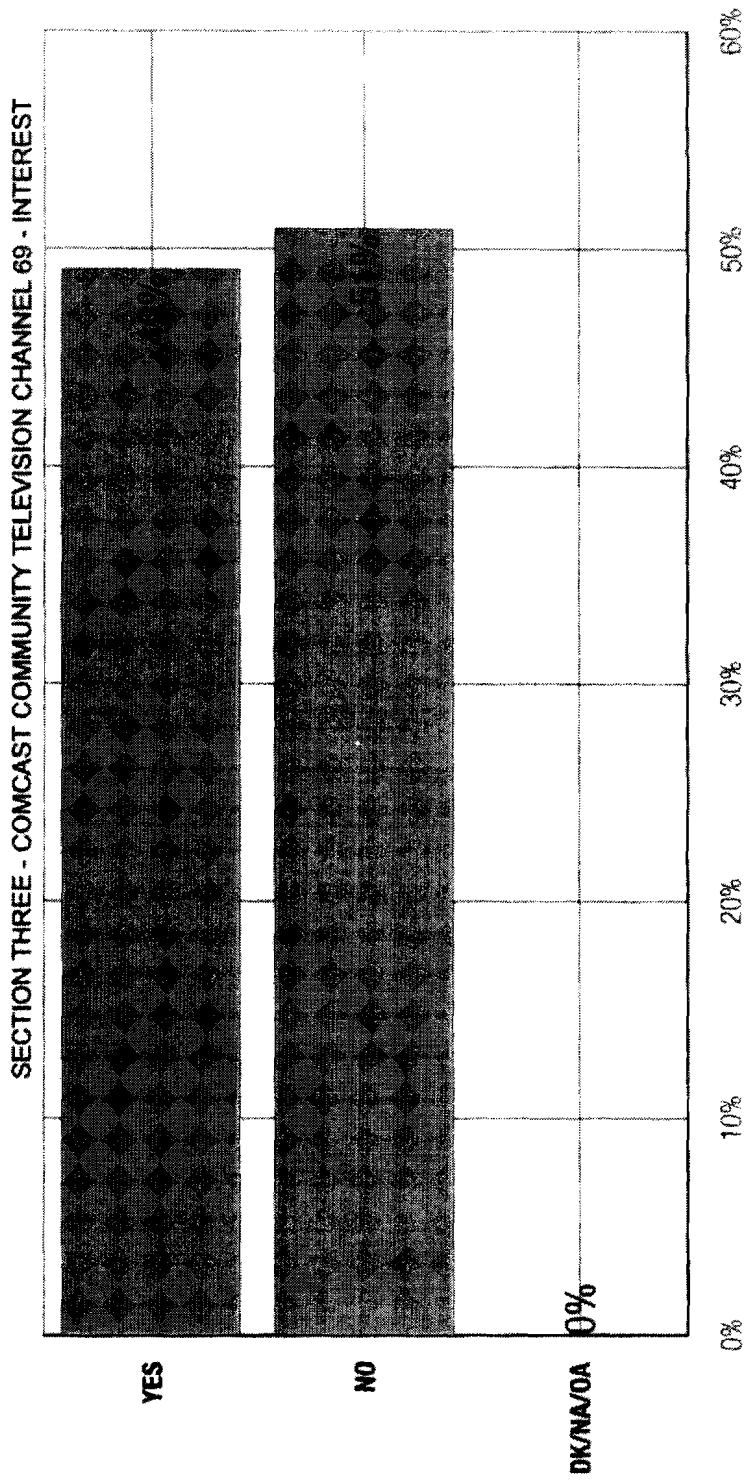


■ 3b).



# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Are you interested in any of the following categories of programming that are currently shown on Channel 69...  
Entertainment Shows?

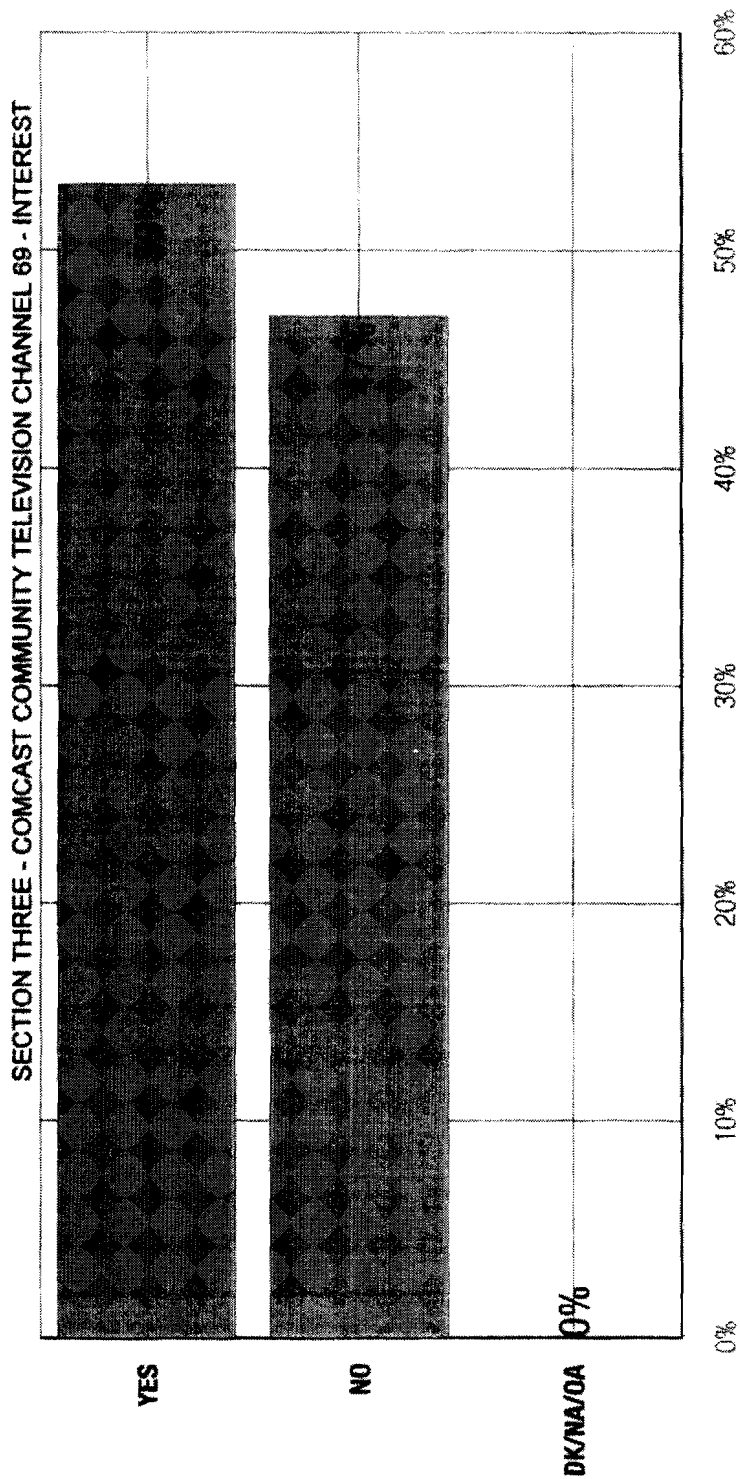


■ 3c)



# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Are you interested in any of the following categories of programming that are currently shown on Channel 69...  
Current Local Events?

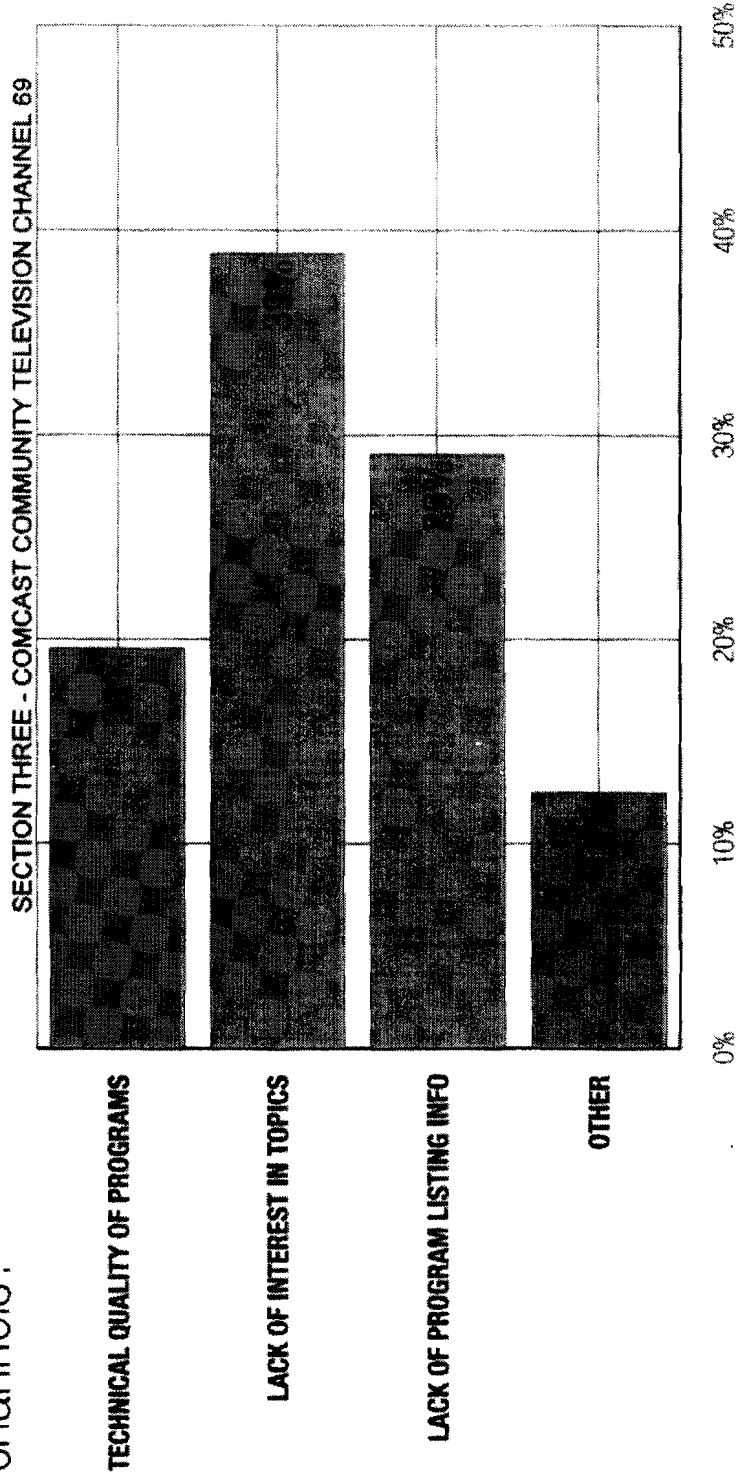


■ 3d).



# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

What are the biggest obstacles to your watching more programs on the PEG channels?



■ 3aa).



**2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia**

What are the biggest obstacles to your watching more programs on the PEG channels? 'Other' answers...

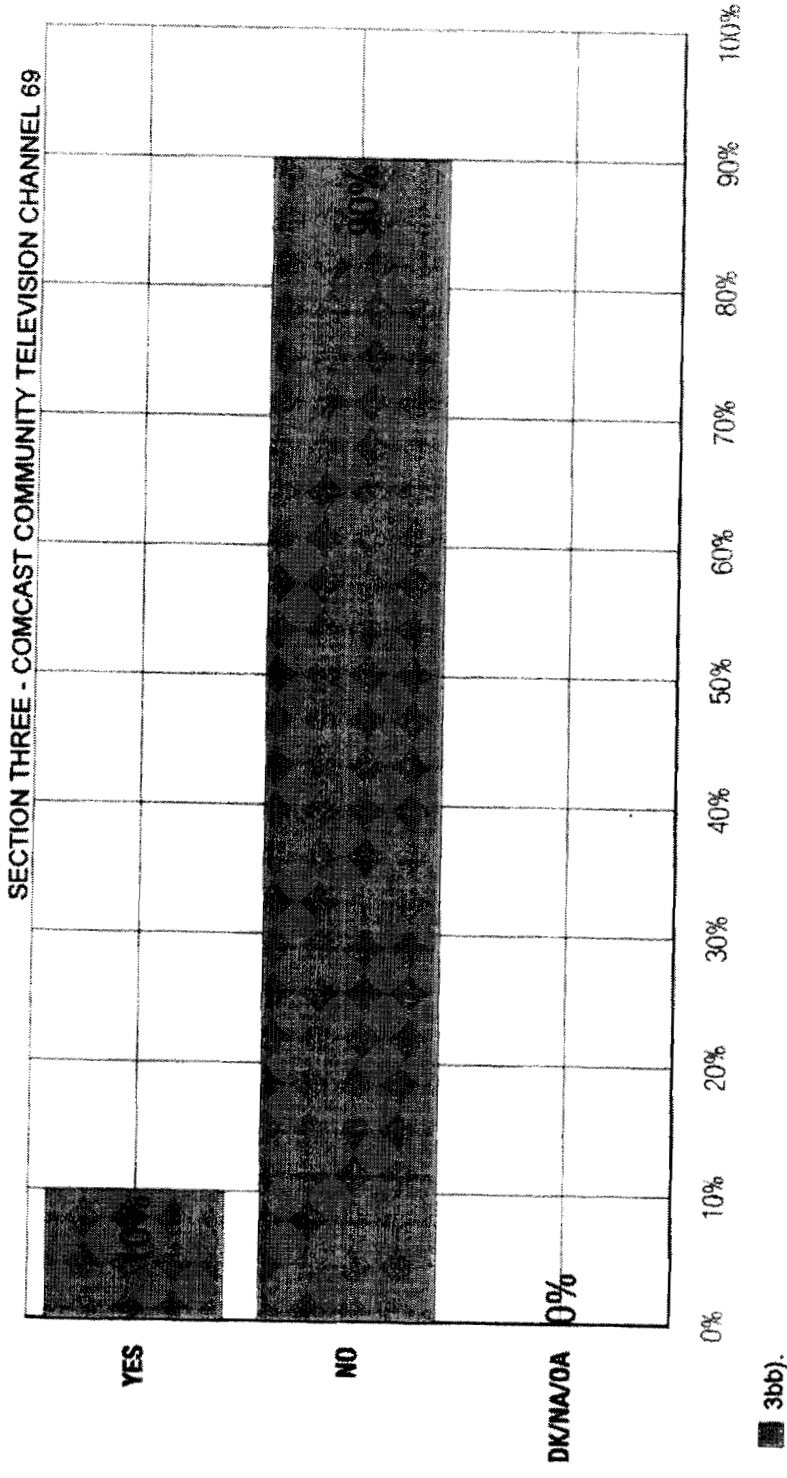
<b>Reason</b>	<b>Answers</b>
<b>Lack of time</b>	<b>17</b>
<b>Lack of info on channel</b>	<b>5</b>
<b>Lack of interest</b>	<b>7</b>
<b>Not aware of location</b>	<b>2</b>
<b>Doesn't watch much TV</b>	<b>4</b>





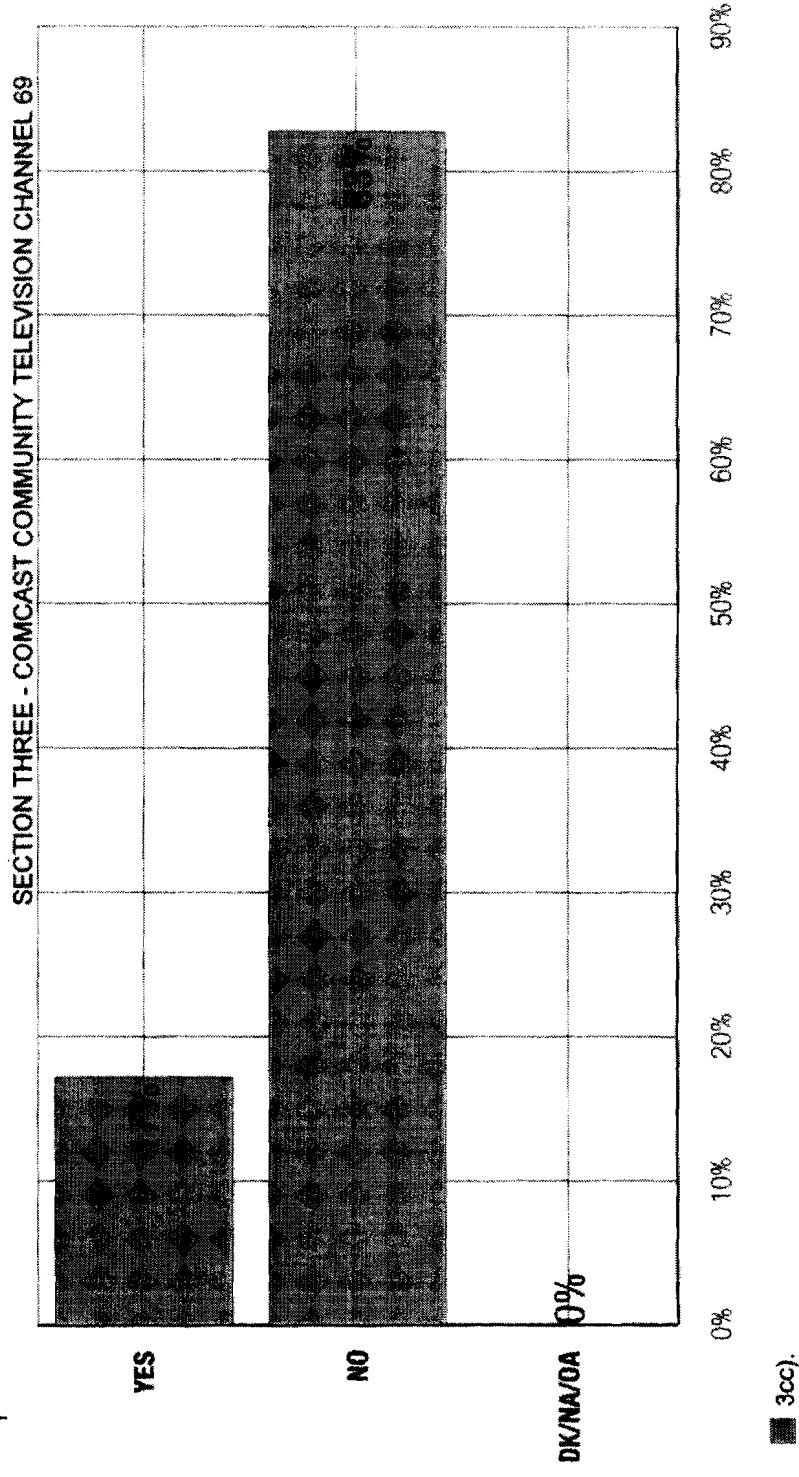
# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Have you ever considered producing a show on the Community Channel?



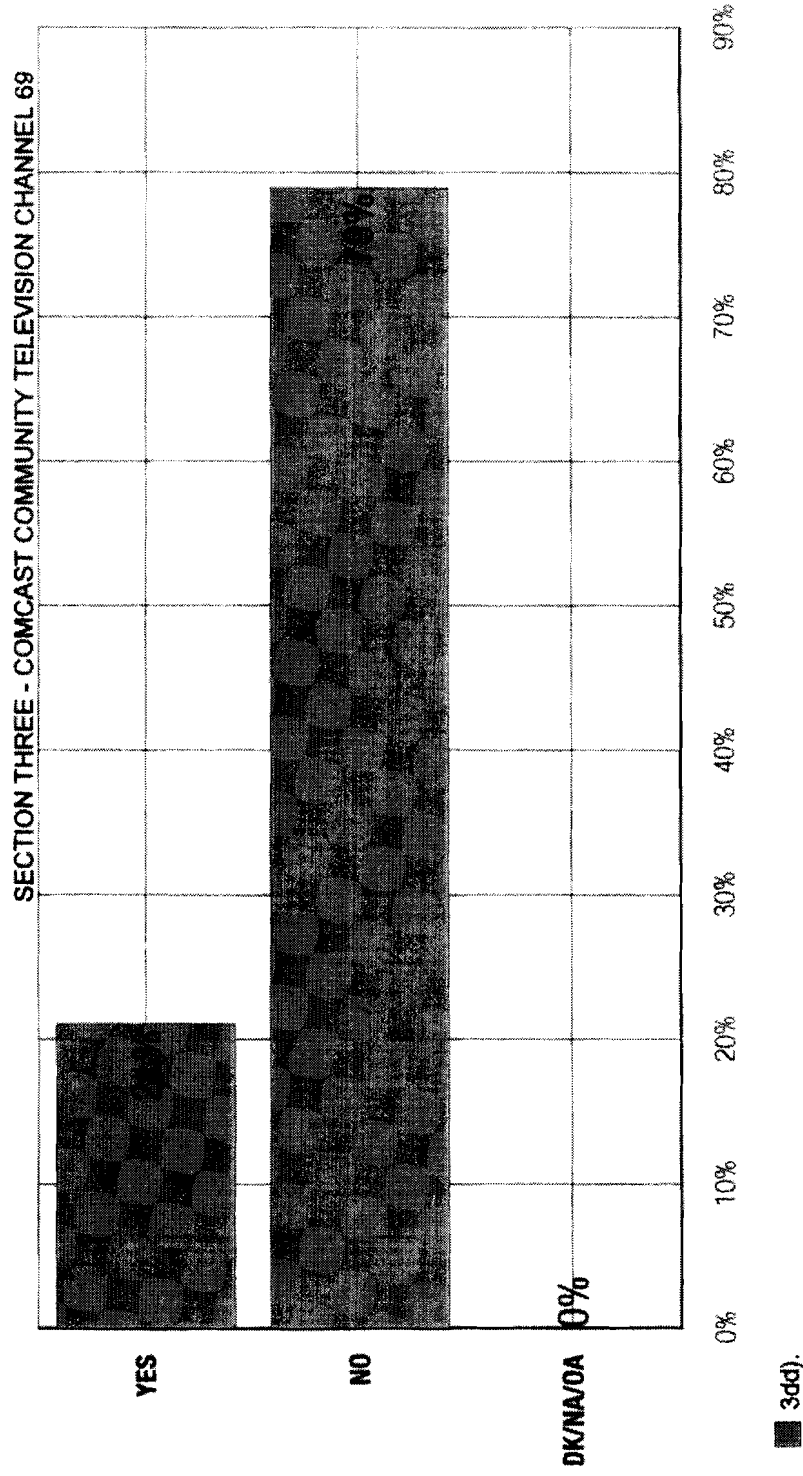
2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Are you aware that Comcast conducts Community Programming Volunteer Operations classes in television production for a nominal fee?



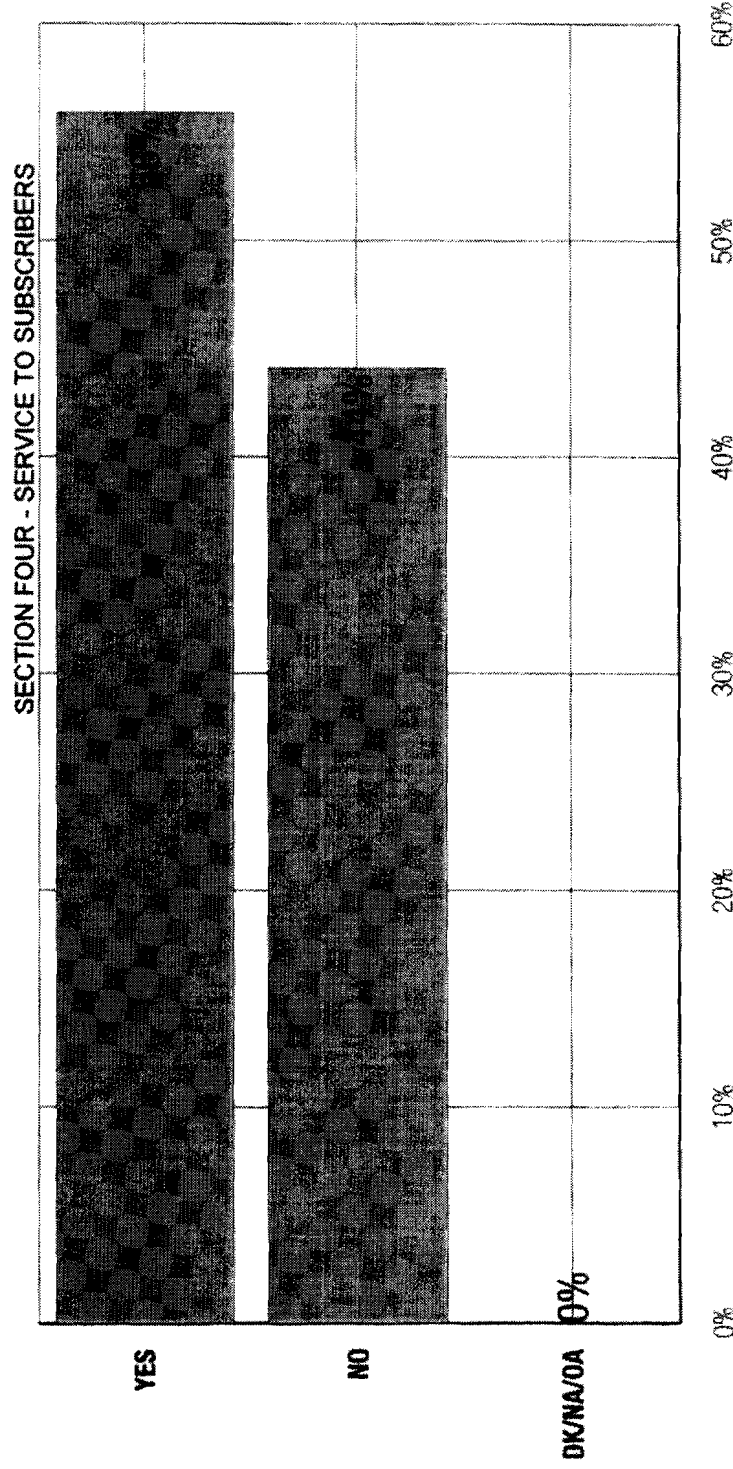
# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Would you be interested in taking such a class?



2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Have you ever called the cable company for any reason other than initiating service?

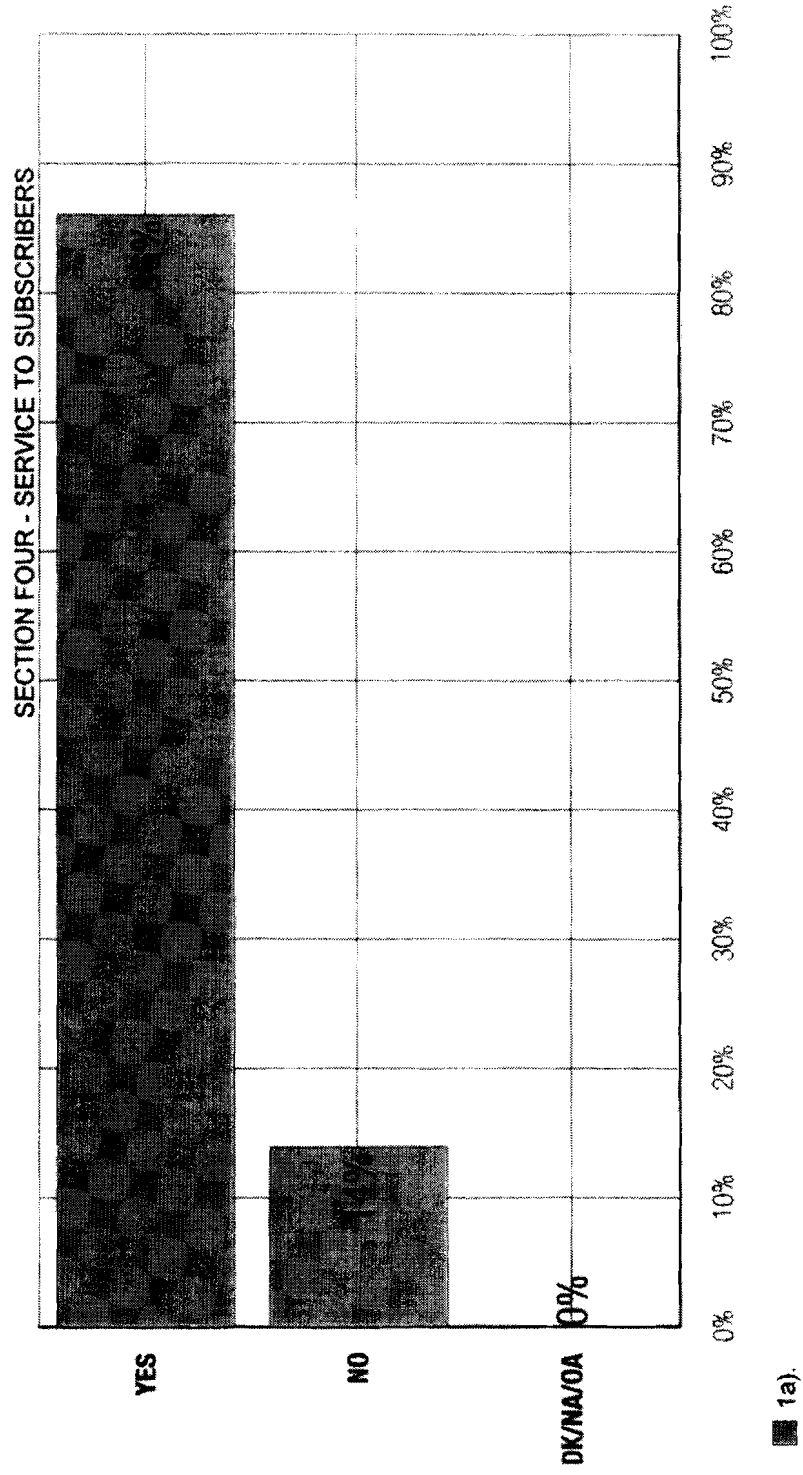


■ 1).



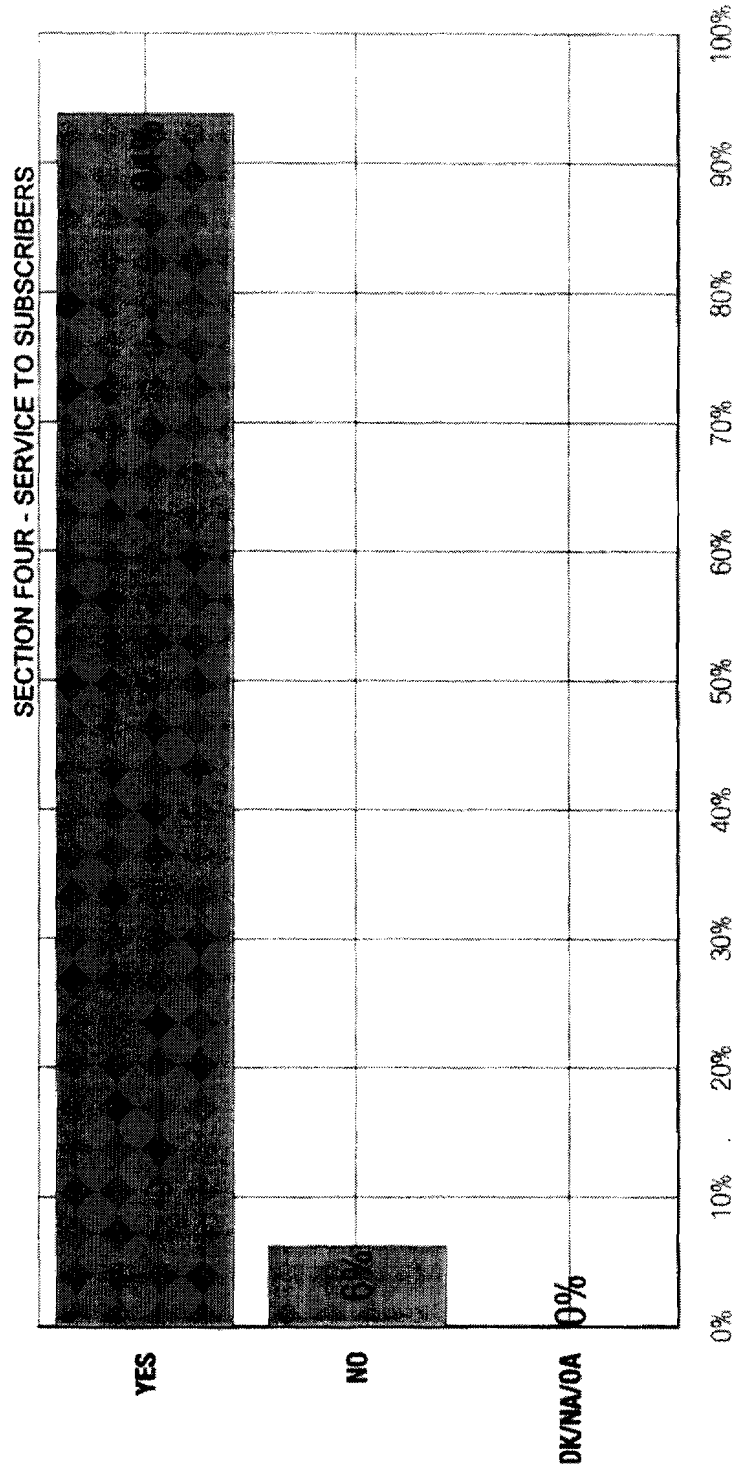
2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Was your call answered within a reasonable period of time?



2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Was the person with whom you spoke courteous?

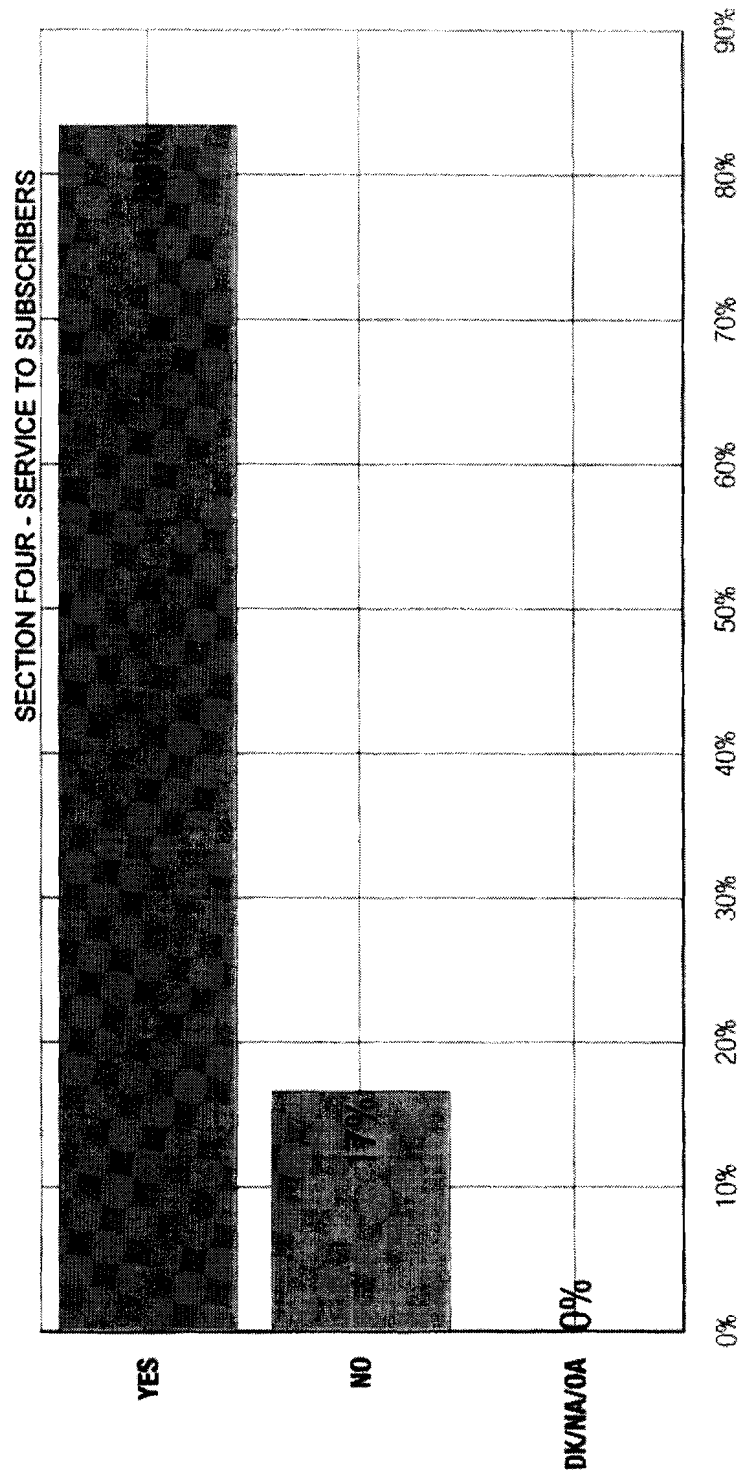


1b).



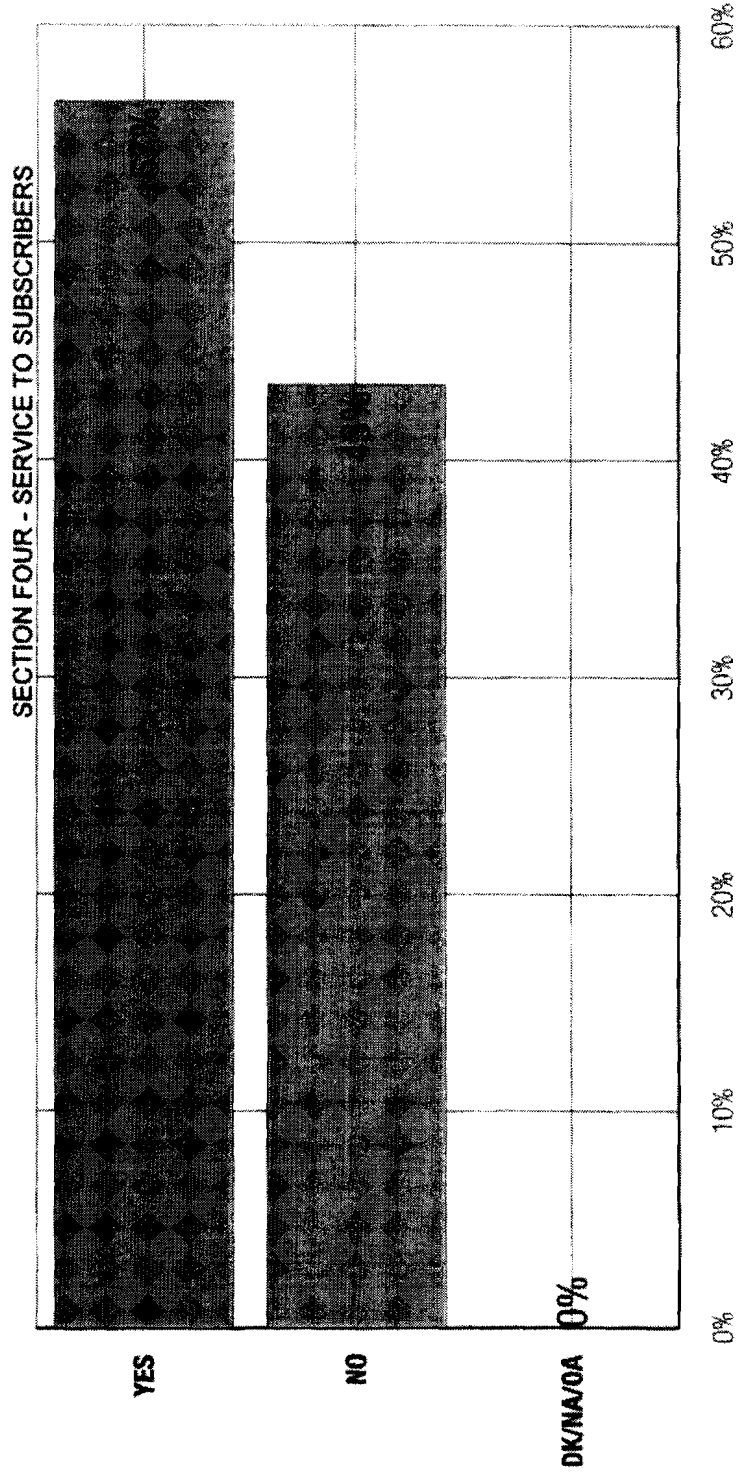
# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Was your question or problem resolved?



# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Have you ever visited the local Comcast Office?



■ 1d).

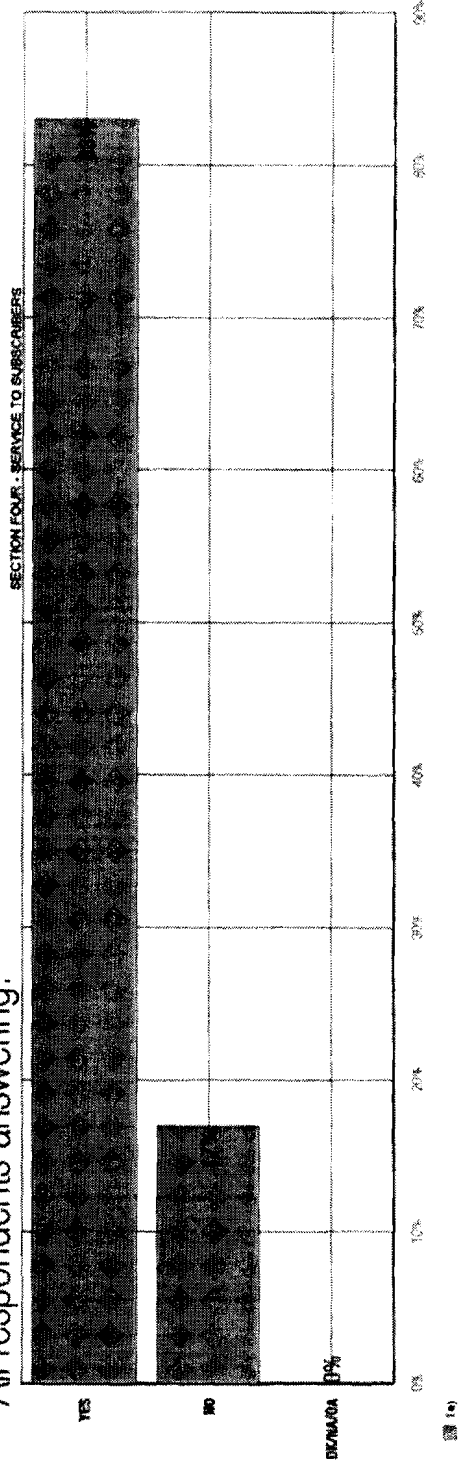




# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

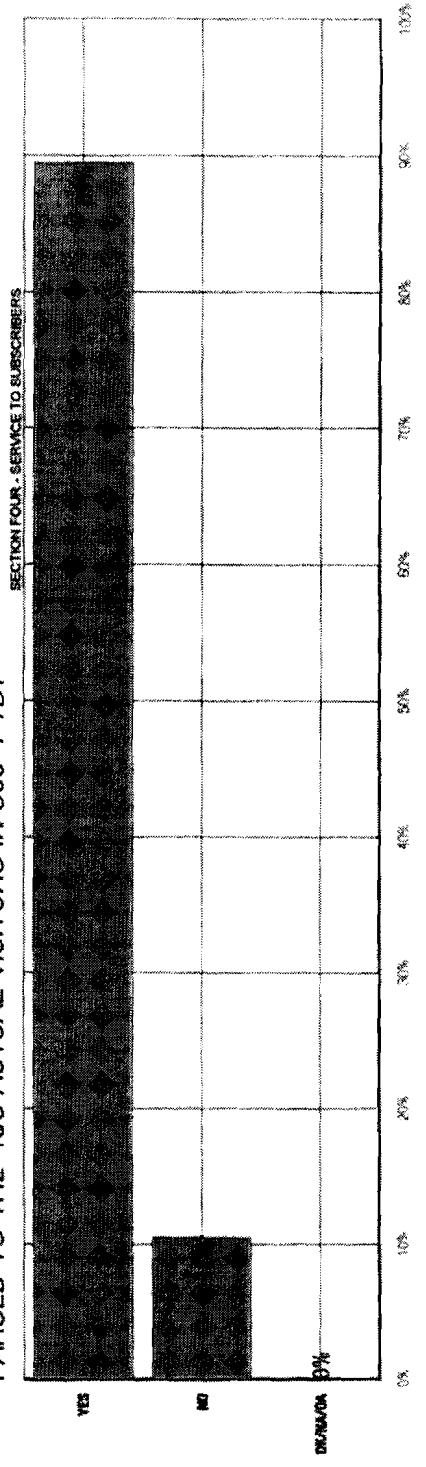
Were you satisfied with the quality of service you received?

\*All respondents answering.



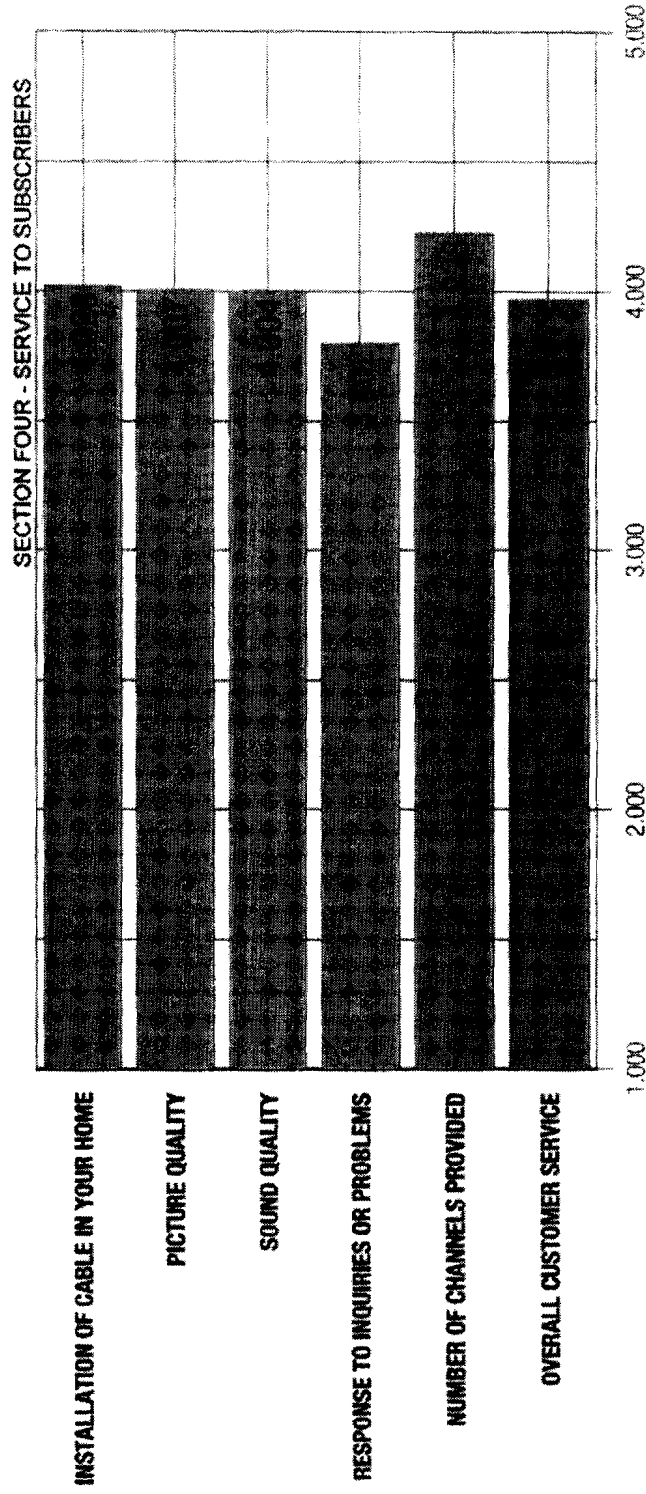
Were you satisfied with the quality of service you received?

\*PARSED TO THE 495 ACTUAL VISITORS IN SEC 4 1D.



## 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Using a scale from 1 to 5, with 1 meaning "extremely dissatisfied" and 5 meaning "extremely satisfied," please select the number that best represents your satisfaction with the following customer service aspects of the system.

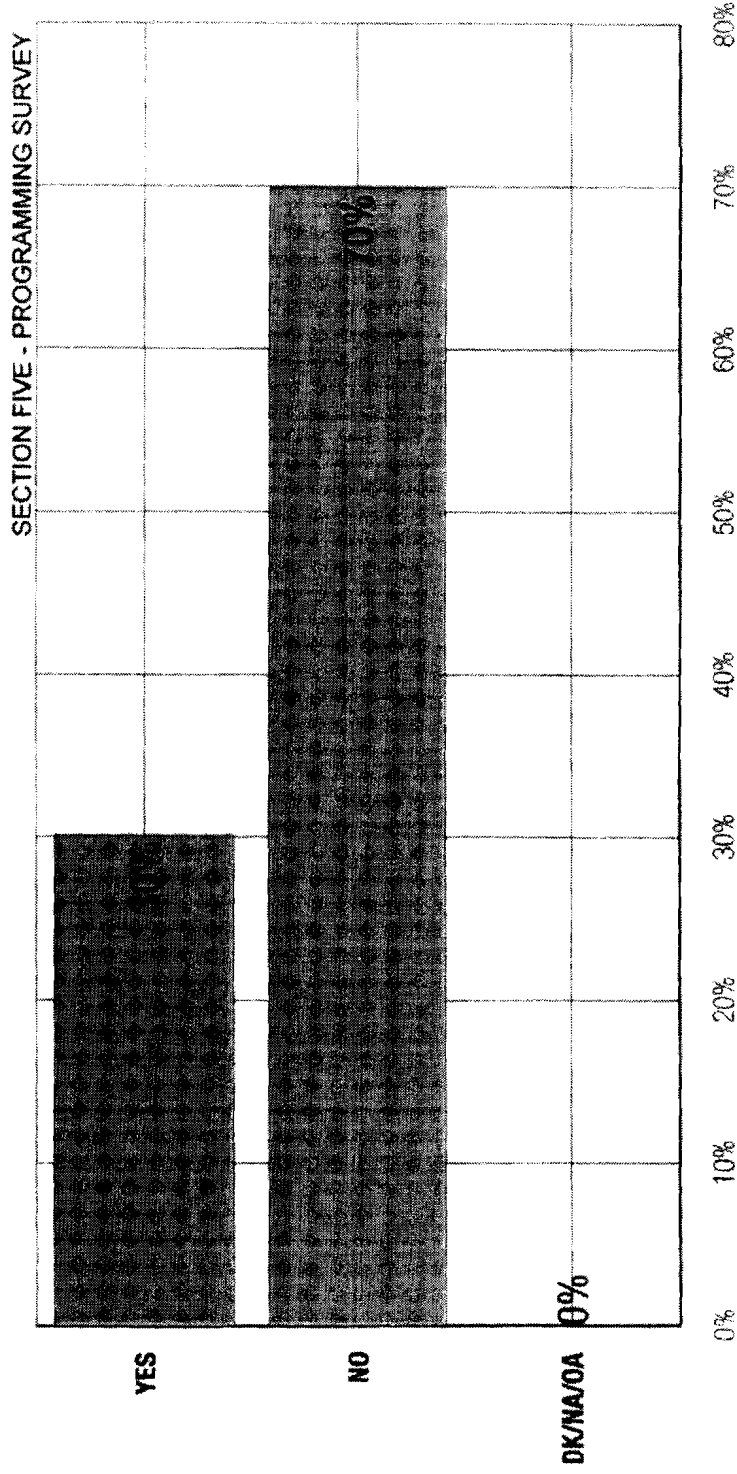


■ 2).



# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Are there any channels that are not presently offered that you or others in your household would like to see added to our system?



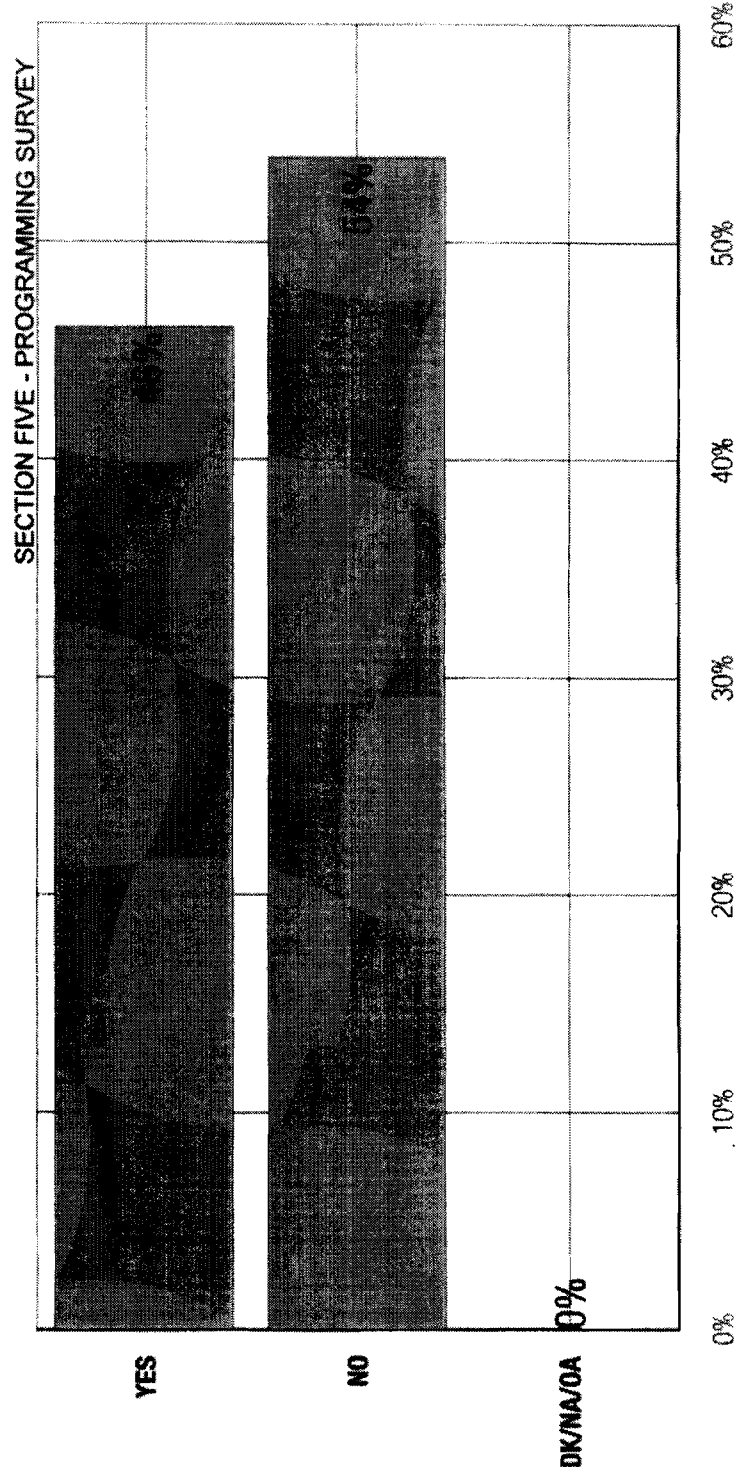
■ 1a).





# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

If Comcast added the new channels that you would like to see, would you be willing to pay more for the service?

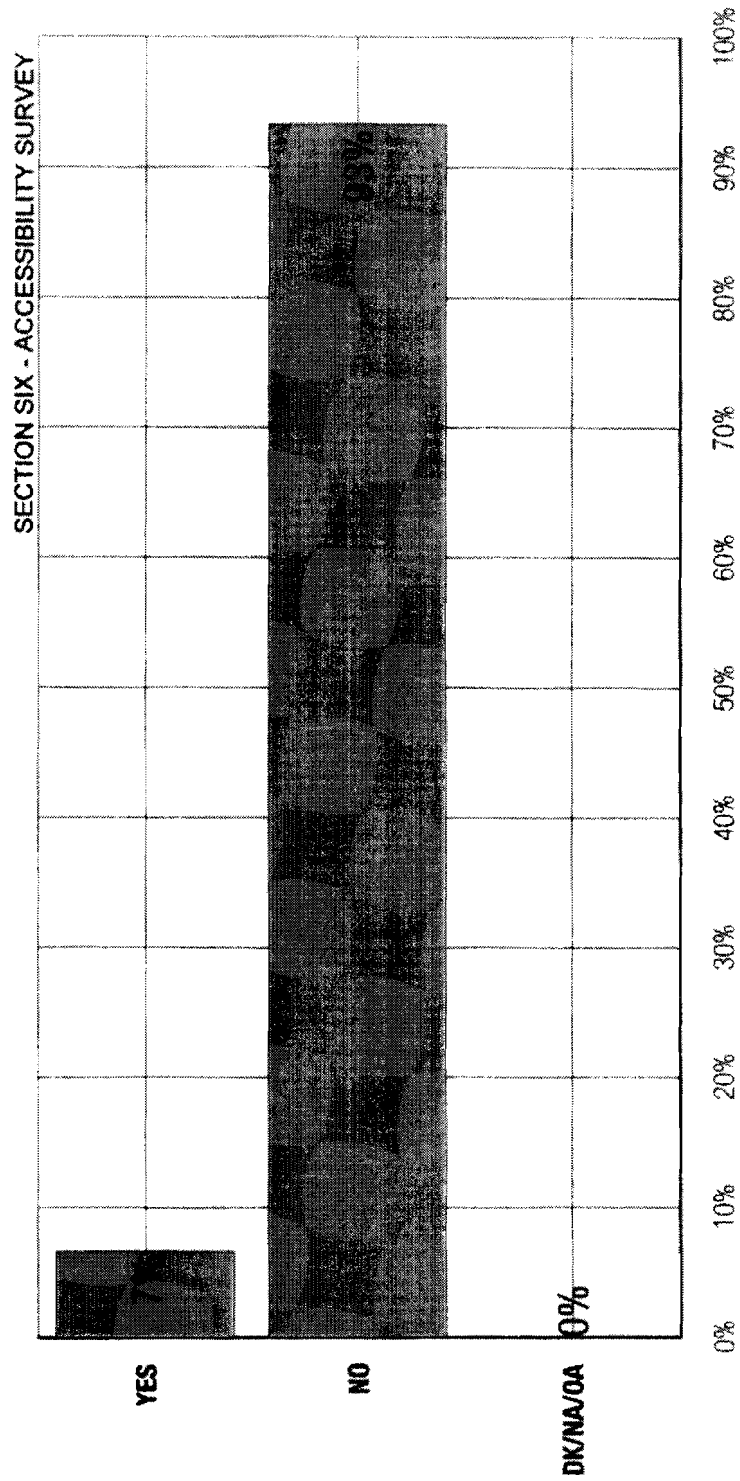


■ 1c)



# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Are there any persons in your household with hearing or vision disabilities which interferes with their enjoyment of cable TV?

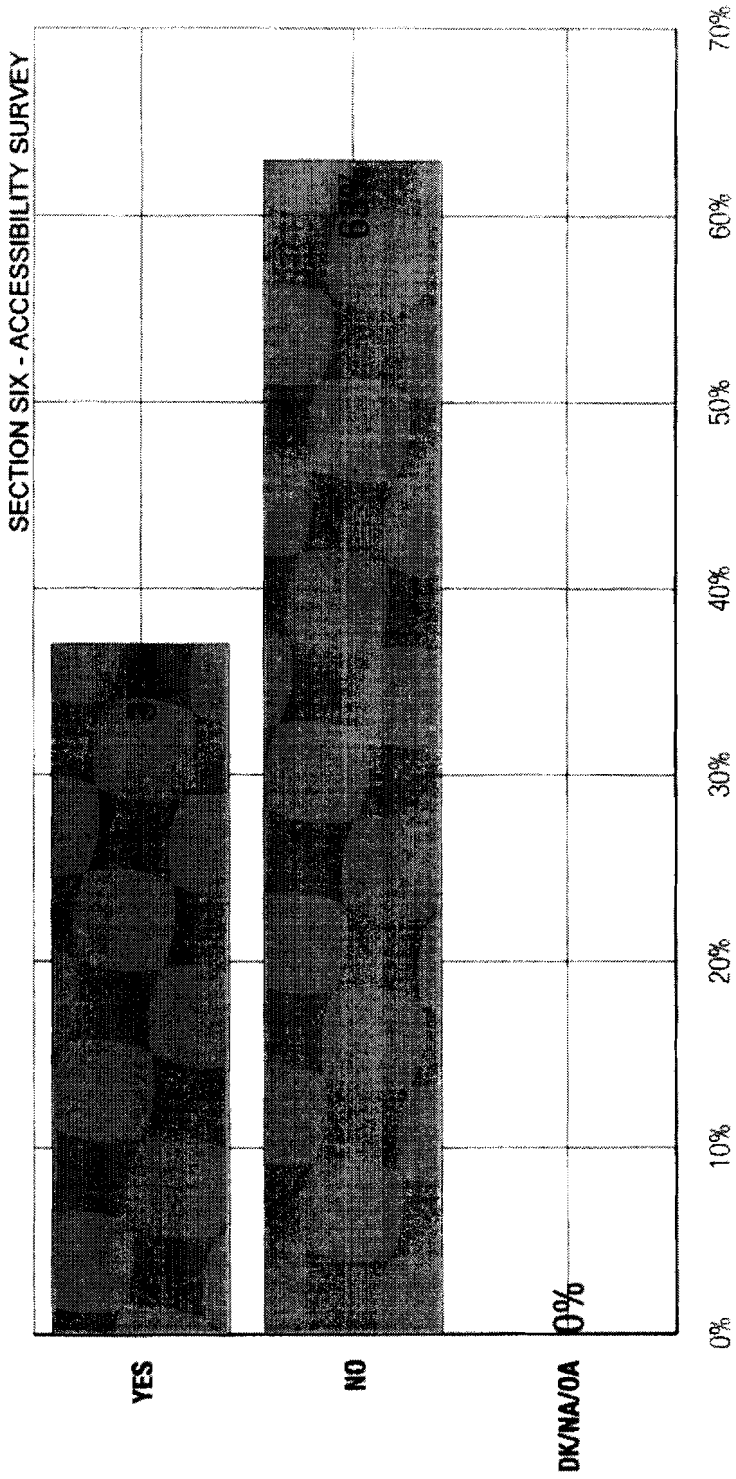


■ 1).



# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Are there any persons in your household with mobile, manual or dexterity impairments that would interfere with their ability to use cable TV controls?

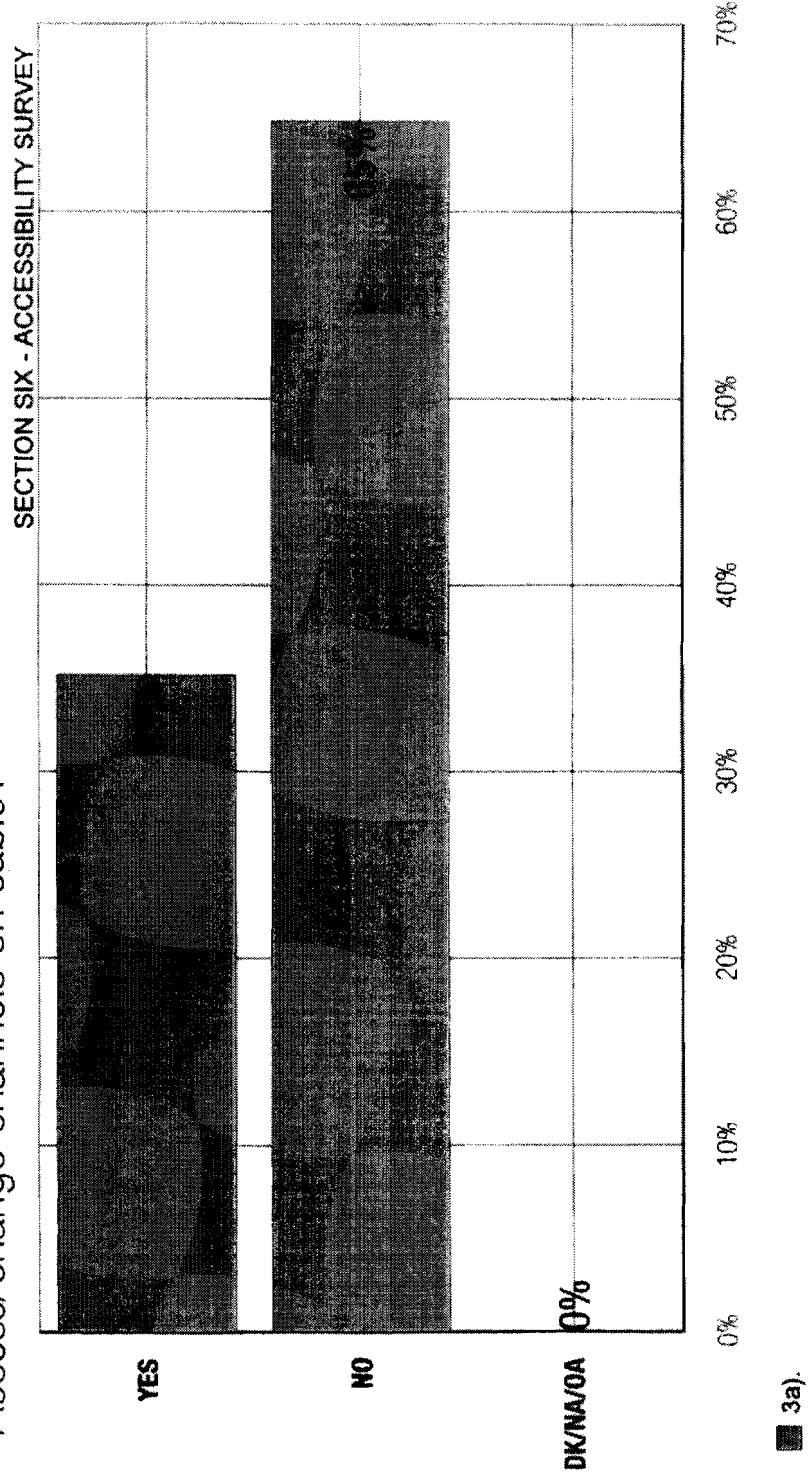


■ 2)



# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

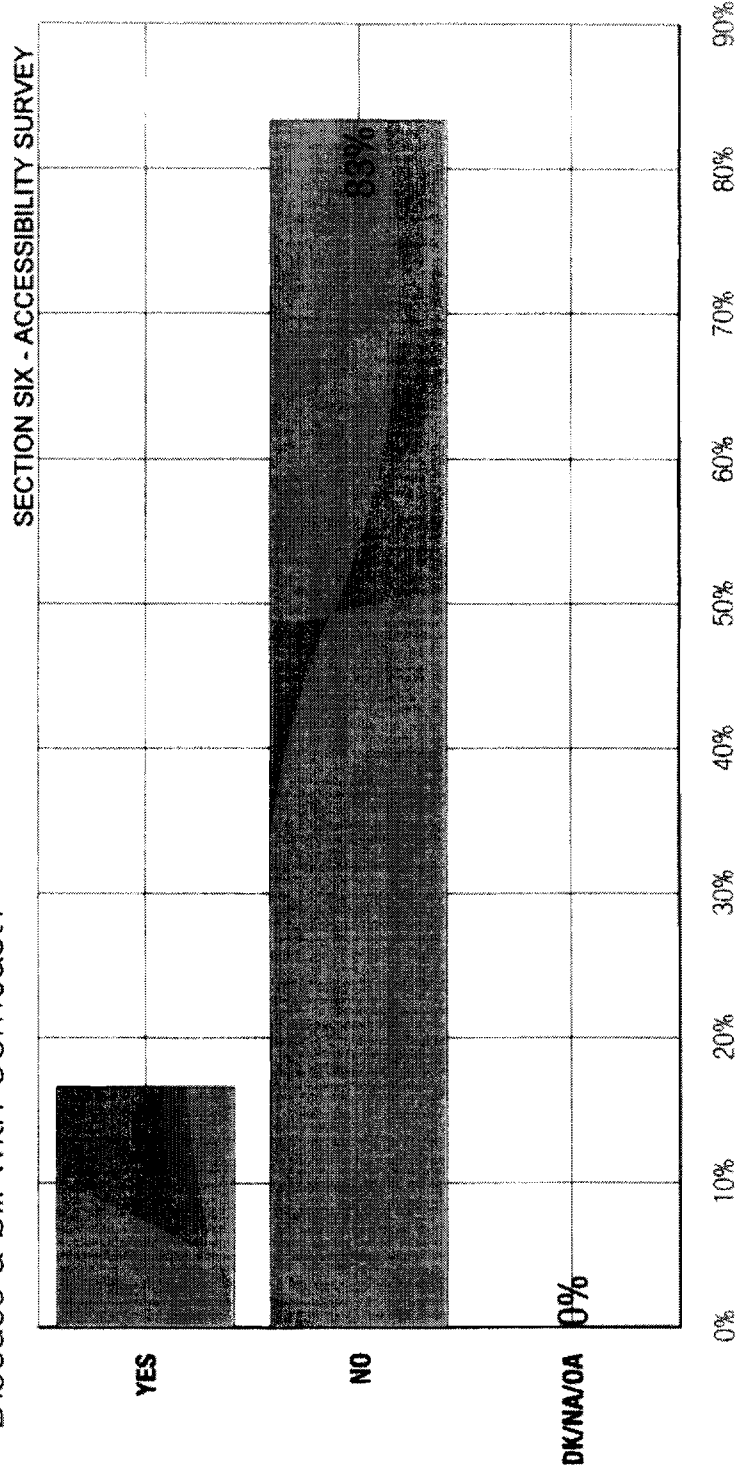
Have any of these disabilities or impairments affected this person's ability to:  
Access/change channels on cable?





# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Have any of these disabilities or impairments affected this person's ability to:  
Discuss a bill with Comcast?

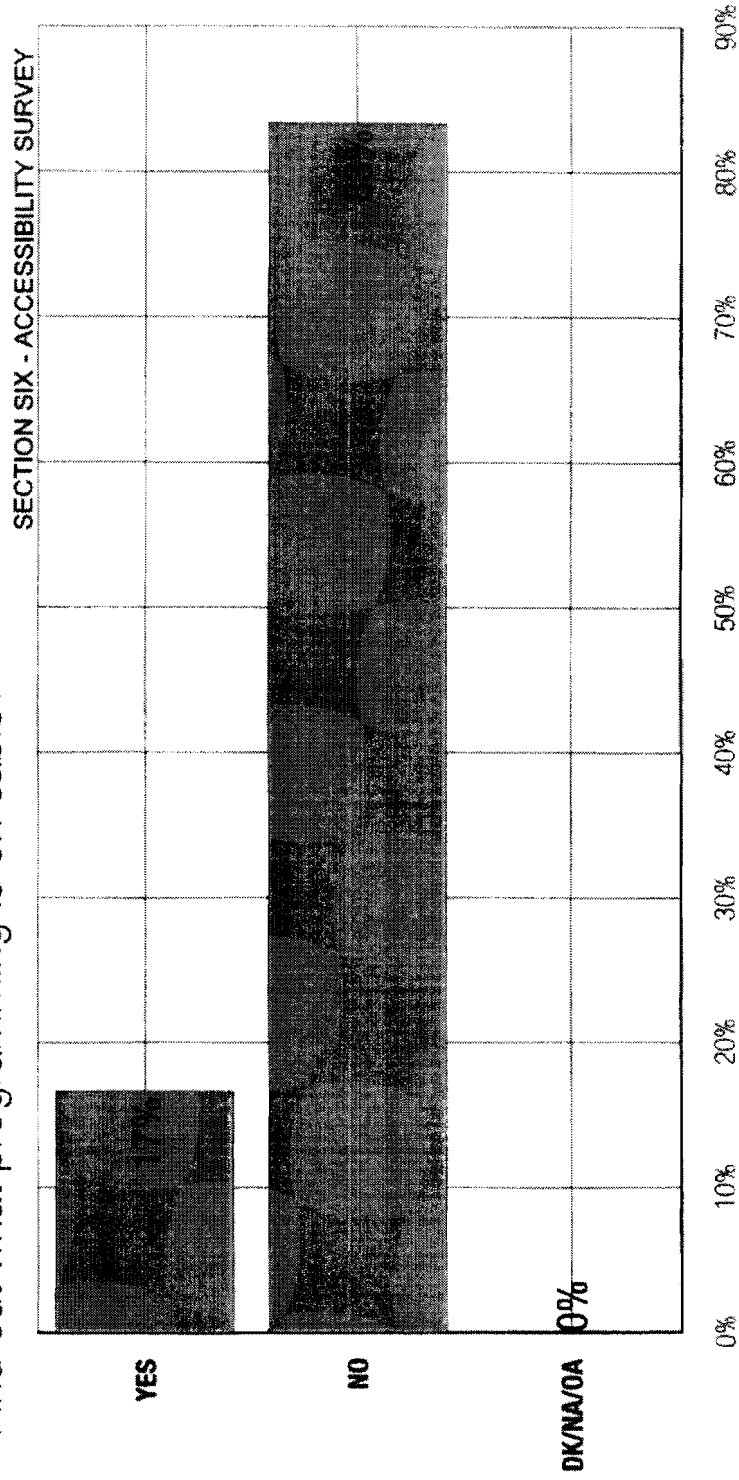


■ 3b).



# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Have any of these disabilities or impairments affected this person's ability to:  
Find out what programming is on cable?

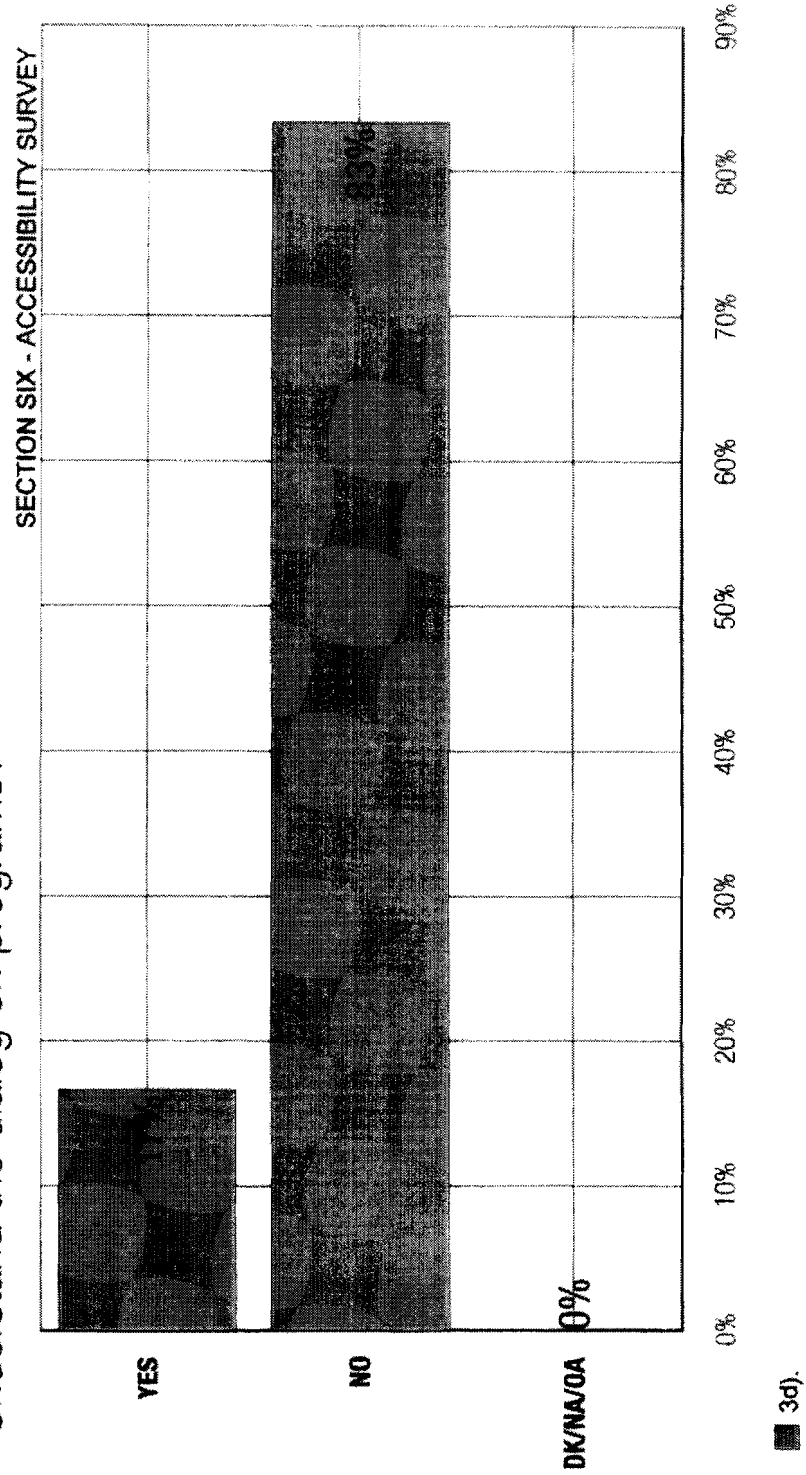


3c)



# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

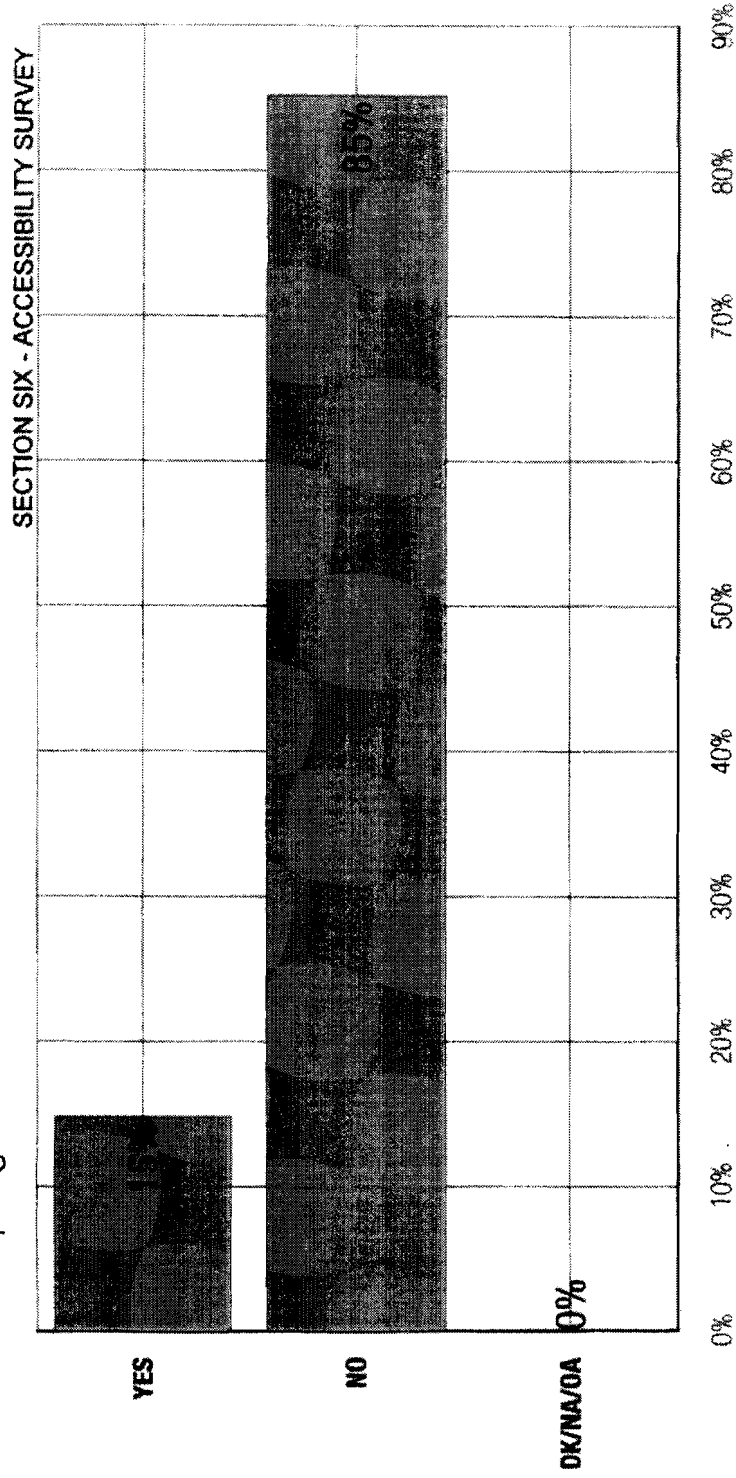
Have any of these disabilities or impairments affected this person's ability to:  
Understand the dialog on programs?



# 2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia

Have any of these disabilities or impairments affected this person's ability to:

Follow the program on cable?



■ 3e).



**2006 Comcast Cable Television Subscriber Survey - Alexandria, Virginia**

**Section Six - Accessibility Survey - Question 3f.**

Have any of these disabilities or impairments affected this person's ability to:  
Other ... respondent comment detail.

No responses.





## 2006 Comcast Alexandria Survey

807 Total Surveys

### SECTION ONE - BACKGROUND INFORMATION

1). What is the major reason you subscribe to cable television at this time?

39.8%	321	1 MORE CHANNELS
6.6%	53	2 MOVIES
31.8%	257	3 BETTER RECEPTION
7.6%	61	4 PREMIUM SERVICES
7.8%	63	5 SPORTS
10.5%	85	6 OTHER
<b>840</b>		<b>Total Responses</b>

### SECTION TWO - ACCESS CHANNELS

#### SECTION TWO - ACCESS CHANNELS

1). Were you previously aware of these channels?

58.7%	474	1 YES
41.3%	333	2 NO
0.0%	0	0 DK/NA/OA
<b>807</b>		<b>Total Responses</b>

#### SECTION TWO - ACCESS CHANNELS

Channel 70 is the local government access channel which provides brief announcements about upcoming government meetings and events, and broadcasts live City Council meetings, Planning Commission meetings, Board of Zoning Appeals meetings, and Board of Architectural Review meetings. Do you watch 2). Channel 70 programming?

44.3%	210	1 YES
55.7%	264	2 NO
0.0%	0	0 DK/NA/OA
<b>474</b>		<b>Total Responses</b>

## SECTION TWO - ACCESS CHANNELS

2a). Have you ever watched an Alexandria City Council meeting?

60.0%	126	1	YES
40.0%	84	2	NO
0.0%	0	0	DK/NA/OA
<b>210</b>			<b>Total Responses</b>

## SECTION TWO - ACCESS CHANNELS

2b). Have you ever watched a Saturday public hearing?

39.5%	83	1	YES
60.5%	127	2	NO
0.0%	0	0	DK/NA/OA
<b>210</b>			<b>Total Responses</b>

## SECTION TWO - ACCESS CHANNELS

2c). Have you ever watched a Planning Commission meeting?

57.1%	120	1	YES
42.9%	90	2	NO
0.0%	0	0	DK/NA/OA
<b>210</b>			<b>Total Responses</b>

## SECTION TWO - ACCESS CHANNELS

2d). Have you ever watched a Board of Zoning Appeals meeting?

51.0%	107	1	YES
49.0%	103	2	NO
0.0%	0	0	DK/NA/OA
<b>210</b>			<b>Total Responses</b>

## SECTION TWO - ACCESS CHANNELS

2e). Have you ever watched a Board of Architectural Review - Old and Historic District meeting?

45.2%	95	1	YES
54.8%	115	2	NO
0.0%	0	0	DK/NA/OA
<b>210</b>			<b>Total Responses</b>



## SECTION TWO - ACCESS CHANNELS

2f). Have you ever watched a Board of Architectural Review - Parker-Gray District meeting?

28.6%	60	1	YES
71.4%	150	2	NO
0.0%	0	0	DK/NA/OA
	<b>210</b>		<b>Total Responses</b>

## SECTION TWO - ACCESS CHANNELS

2g). Have you ever watched a School Board meeting?

51.4%	108	1	YES
48.6%	102	2	NO
0.0%	0	0	DK/NA/OA
	<b>210</b>		<b>Total Responses</b>

## SECTION TWO - ACCESS CHANNELS

3). Would you be interested in specific programming which highlights City services, programs and/or projects?

30.9%	249	1	YES
69.1%	558	2	NO
0.0%	0	0	DK/NA/OA
	<b>807</b>		<b>Total Responses</b>

## SECTION TWO - ACCESS CHANNELS

Channels 71, 72, and 73 are the educational access channels. Channel 72 broadcasts telecourses from Northern Virginia Community College. Channel 73 broadcasts telecourses from George Mason University and Channel 71 for cable ready TVs is used by the Alexandria City Public School system.

4).

4a). Have you ever watched the telecourses sponsored by Northern Virginia Community College?

21.7%	175	1	YES
78.3%	632	2	NO
0.0%	0	0	DK/NA/OA
	<b>807</b>		<b>Total Responses</b>





## SECTION TWO - ACCESS CHANNELS

4b). Have you ever watched the telecourses sponsored by George Mason University?

22.9%	185	1	YES
77.1%	622	2	NO
0.0%	0	0	DK/NA/OA
	<b>807</b>		<b>Total Responses</b>

## SECTION TWO - ACCESS CHANNELS

4c). Have you ever watched any of the programming sponsored by the Alexandria City Public Schools?

20.8%	168	1	YES
79.2%	639	2	NO
0.0%	0	0	DK/NA/OA
	<b>807</b>		<b>Total Responses</b>

## SECTION TWO - ACCESS CHANNELS

4d). Do you presently have children enrolled in the Alexandria Public School System?

13.9%	112	1	YES
86.1%	695	2	NO
0.0%	0	0	DK/NA/OA
	<b>807</b>		<b>Total Responses</b>

## SECTION TWO - ACCESS CHANNELS

Instructional programming can also be seen on MHZ2/Channel 25. Have you ever watched instructional programming sponsored by MHZ2/Channel 25?

22.2%	179	1	YES
77.8%	628	2	NO
0.0%	0	0	DK/NA/OA
	<b>807</b>		<b>Total Responses</b>



## SECTION THREE - COMCAST COMMUNITY TELEVISION CHANNEL 69

Comcast produces local programming as a public service to Alexandrians. These programs are shown on Channel 69 in the evenings during the week and on the weekends.

## SECTION THREE - COMCAST COMMUNITY TELEVISION CHANNEL 69

1). Have you ever watched the programming on Channel 69?

25.4%	205	1	YES
74.6%	602	2	NO
0.0%	0	0	DK/NA/OA
	<b>807</b>		<b>Total Responses</b>

## SECTION THREE - COMCAST COMMUNITY TELEVISION CHANNEL 69

2). Have you ever watched the Community Bulletin Board on Channel 69 from 10:00 am to 5:30 am daily?

71.2%	146	1	YES
28.8%	59	2	NO
0.0%	0	0	DK/NA/OA
	<b>205</b>		<b>Total Responses</b>

## SECTION THREE - COMCAST COMMUNITY TELEVISION CHANNEL 69

Are you interested in any of the following categories of programming that are currently shown on Channel

3). 69?

## SECTION THREE - COMCAST COMMUNITY TELEVISION CHANNEL 69 - INTEREST

3a). Local high school sports?

25.5%	206	1	YES
74.5%	601	2	NO
0.0%	0	0	DK/NA/OA
	<b>807</b>		<b>Total Responses</b>

## SECTION THREE - COMCAST COMMUNITY TELEVISION CHANNEL 69 - INTEREST

3b). Civic/Informational Shows?

35.1%	283	1	YES
64.9%	524	2	NO
0.0%	0	0	DK/NA/OA
	<b>807</b>		<b>Total Responses</b>



## SECTION THREE - COMCAST COMMUNITY TELEVISION CHANNEL 69 - INTEREST

## 3c). Entertainment Shows?

49.1%	396	1 YES
50.9%	411	2 NO
0.0%	0	0 DK/NA/OA
<b>807</b>		<b>Total Responses</b>

## SECTION THREE - COMCAST COMMUNITY TELEVISION CHANNEL 69 - INTEREST

## 3d). Current Local Events?

53.0%	428	1 YES
47.0%	379	2 NO
0.0%	0	0 DK/NA/OA
<b>807</b>		<b>Total Responses</b>

## SECTION THREE - COMCAST COMMUNITY TELEVISION CHANNEL 69

## 3aa). What are the biggest obstacles to your watching more programs on the PEG channels?

19.55%	158	1 TECHNICAL QUALITY OF PROGRAMS
38.86%	313	2 LACK OF INTEREST IN TOPICS
29.08%	235	3 LACK OF PROGRAM LISTING INFO
12.50%	101	4 OTHER
<b>807</b>		<b>Total Responses</b>

## SECTION THREE - COMCAST COMMUNITY TELEVISION CHANNEL 69

## 3bb). Have you ever considered producing a show on the Community Channel?

10.0%	81	1 YES
90.0%	726	2 NO
0.0%	0	0 DK/NA/OA
<b>807</b>		<b>Total Responses</b>



## SECTION THREE - COMCAST COMMUNITY TELEVISION CHANNEL 69

Are you aware that Comcast conducts Community Programming Volunteer Operations classes in television 3cc). production for a nominal fee?

17.2%	139	1	YES
82.8%	668	2	NO
0.0%	0	0	DK/NA/OA
	<b>807</b>		<b>Total Responses</b>

## SECTION THREE - COMCAST COMMUNITY TELEVISION CHANNEL 69

3dd). Would you be interested in taking such a class?

21.1%	170	1	YES
78.9%	637	2	NO
0.0%	0	0	DK/NA/OA
	<b>807</b>		<b>Total Responses</b>

## SECTION FOUR - SERVICE TO SUBSCRIBERS

## SECTION FOUR - SERVICE TO SUBSCRIBERS

1). Have you ever called the cable company for any reason other than initiating service?

55.9%	451	1	YES
44.1%	356	2	NO
0.0%	0	0	DK/NA/OA
	<b>807</b>		<b>Total Responses</b>

## SECTION FOUR - SERVICE TO SUBSCRIBERS

1a). Was your call answered within a reasonable period of time?

86.0%	388	1	YES
14.0%	63	2	NO
0.0%	0	0	DK/NA/OA
	<b>451</b>		<b>Total Responses</b>

## SECTION FOUR - SERVICE TO SUBSCRIBERS

1b). Was the person with whom you spoke courteous?

93.8%	423	1	YES
6.2%	28	2	NO
0.0%	0	0	DK/NA/OA
<b>451</b>			<b>Total Responses</b>

## SECTION FOUR - SERVICE TO SUBSCRIBERS

1c). Was your question or problem resolved?

83.4%	376	1	YES
16.6%	75	2	NO
0.0%	0	0	DK/NA/OA
<b>451</b>			<b>Total Responses</b>

## SECTION FOUR - SERVICE TO SUBSCRIBERS

1d). Have you ever visited the local Comcast Office?

56.5%	456	1	YES
43.5%	351	2	NO
0.0%	0	0	DK/NA/OA
<b>807</b>			<b>Total Responses</b>

## SECTION FOUR - SERVICE TO SUBSCRIBERS

1e). Were you satisfied with the quality of service you received?

83.0%	670	1	YES
17.0%	137	2	NO
0.0%	0	0	DK/NA/OA
<b>807</b>			<b>Total Responses</b>



## SECTION FOUR - SERVICE TO SUBSCRIBERS

Using a scale from 1 to 5, with 1 meaning "extremely dissatisfied" and 5 meaning "extremely satisfied," please select the number that best represents your satisfaction with the following customer service aspects of the system.

- 4.023 3299 a). INSTALLATION OF CABLE IN YOUR HOME
- 4.007 3286 b). PICTURE QUALITY
- 4.004 3283 c). SOUND QUALITY
- 3.802 3118 d). RESPONSE TO INQUIRIES OR PROBLEMS
- 4.228 3467 e). NUMBER OF CHANNELS PROVIDED
- 3.971 3256 f). OVERALL CUSTOMER SERVICE
- 4.006

## SECTION FIVE - PROGRAMMING SURVEY

## SECTION FIVE - PROGRAMMING SURVEY

Are there any channels that are not presently offered that you or others in your household would like to see added to our system?

30.1%	243	1	YES
69.9%	564	2	NO
0.0%	0	0	DK/NA/OA
	<b>807</b>		<b>Total Responses</b>

## SECTION FIVE - PROGRAMMING SURVEY

1b). If yes, which channel(s) would you like to see added to the system?

PLEASE SEE DATA SHEET

## SECTION FIVE - PROGRAMMING SURVEY

If Comcast added the new channels that you would like to see, would you be willing to pay more for the service?

46.1%	112	1	YES
53.9%	131	2	NO
0.0%	0	0	DK/NA/OA
	<b>243</b>		<b>Total Responses</b>

## SECTION SIX - ACCESSIBILITY SURVEY

## SECTION SIX - ACCESSIBILITY SURVEY

Are there any persons in your household with hearing or vision disabilities which interferes with their  
1). enjoyment of cable TV?

6.7%	54	1	YES
93.3%	753	2	NO
0.0%	0	0	DK/NA/OA
	<b>807</b>		<b>Total Responses</b>

## SECTION SIX - ACCESSIBILITY SURVEY

Are there any persons in your household with mobile, manual or dexterity impairments that would interfere  
2). with their ability to use cable TV controls?

37.0%	20	1	YES
63.0%	34	2	NO
0.0%	0	0	DK/NA/OA
	<b>54</b>		<b>Total Responses</b>

## SECTION SIX - ACCESSIBILITY SURVEY

3). Have any of these disabilities or impairments affected this person's ability to:

## SECTION SIX - ACCESSIBILITY SURVEY

3a). Access/change channels on cable?

35.2%	19	1	YES
64.8%	35	2	NO
0.0%	0	0	DK/NA/OA
	<b>54</b>		<b>Total Responses</b>

## SECTION SIX - ACCESSIBILITY SURVEY

3b). Discuss a bill with Comcast?

16.7%	9	1	YES
83.3%	45	2	NO
0.0%	0	0	DK/NA/OA
	<b>54</b>		<b>Total Responses</b>



## SECTION SIX - ACCESSIBILITY SURVEY

3c). Find out what programming is on cable?

16.7%	9	1	YES
83.3%	45	2	NO
0.0%	0	0	DK/NA/OA
	<b>54</b>		<b>Total Responses</b>

## SECTION SIX - ACCESSIBILITY SURVEY

3d). Understand the dialog on programs?

16.7%	9	1	YES
83.3%	45	2	NO
0.0%	0	0	DK/NA/OA
	<b>54</b>		<b>Total Responses</b>

## SECTION SIX - ACCESSIBILITY SURVEY

3e). Follow the program on cable?

14.8%	8	1	YES
85.2%	46	2	NO
0.0%	0	0	DK/NA/OA
	<b>54</b>		<b>Total Responses</b>

**SECTION FOUR - SERVICE TO SUBSCRIBERS**

1e). Were you satisfied with the quality of service you received?

\*\*\*\*PARSED TO THE 456 ACTUAL VISITORS IN Sec 4 1D.

89.5%	408	1	YES
10.5%	48	2	NO
0.0%	0	0	DK/NA/OA
	<b>456</b>		<b>Total Responses</b>





## **2006 ANNUAL REPORT**

**PLANT REPORT  
FCC PROOF OF PERFORMANCE  
CLI FLY OVER  
SERVICE CALL REPORT  
OUTAGE REPORT**

**AUGUST 30, 2006**

**Comcast**<sup>™</sup>

*Alexandria, Virginia  
Summer 2005  
Proof of  
Performance*



Comcast of Alexandria, VA performed an FCC Proof-of-Performance test during the period of July 1<sup>st</sup> through August 20<sup>th</sup>, 2005.

The purpose of the test was to adhere to FCC requirements as set forth in the Federal Code of Regulations, Subpart K, Sections 76.601 and 76.605. The documents that follow are the results of the tests, as well as the requirements set forth by the FCC.



## System Test Data

System: Comcast Location: Alexandria, Va.

System Community ID#: VA0220

Physical System ID#: 004923

### Statement of Qualifications

#### Scott Shelley Title: Senior Director of Operations

Experience: Scott has been in CATV for 25 years, with 19 years as technical manager. SCTE member since 1988. SCTE Chapter Board Member 1991 thru present. Chapter 2<sup>nd</sup> Vice-president 1992-1993. Chapter President for 1994-1995. Member of NCTA engineering Committee on plant maintenance and outage practices. Member of SCTE Committee on Signal Leakage and CLI in 1988. S/A Headend, Earth Station and Systems training in 1988. FCC proof testing 1980-1981 TCI of Kansas, 1982-1986 – Storer Communications. Proof testing 1988-1993 – Hauser Communications, 1994-1998 Southwestern Bell Media Ventures, 1998-2000 – Prime Communications, 2000-present - Comcast.

#### Greg Harmon Title: Senior System Technician

Experience: Greg has been a CATV Technician for 15 years, during which he has been a Service Technician for 3 years and a System Technician for 11 years. He has completed the NCTI Master Technician program. He has participated in 14 FCC Proof of Performance tests.

#### Jarret Baker Title: Headend Technician

Experience: Jarret has been a Headend Technician for 4 years, and has 7 years RF broadband experience. He has 2 Associate degrees in Electronics and Digital Media. He has participated in 6 FCC Proof of Performance tests.



**Test Point Locations**

Test Point #1  
85 S. Bragg St.

Test Point #2  
Tower Ct. & Whitting St.

Test Point #3  
1 N. Donelson St.

Test Point #4  
Kenwood St. & Fern St.

Test Point #5  
1121 Allison St.

Test Point #6  
901 N. Kemper St.

Test Point #7  
528 Bellvue Pl.

Test Point #8  
5109 Gardner Dr.

Test Point #9  
418 Bashford Ln.

Test Point #10  
5465 Colfax Ave.

Test Point #11  
2357 N early St.



**List of Equipment**

<u>Equipment</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Serial #</u>	<u>Last cal</u>
Cybertek Examiner	Com Sonics	101129-001	N/A	N/A
Spectrum Analyzer	Hewlett-Packard	8591C	3916A04384	10/06/04
Tunable Filter	Trilithic	VF-4-88	9330002	N/A
Pre-Amplifier	Hewlett-Packard	85905A	6093-0551	N/A
Signal Level Meter	Avantron	AT2000RQ	3245-0701	10/06/04
Converter Box	Scientific Atlanta	8511300	GF505BFDN	N/A



## Testing Procedures

### **C/N, CTB, CSO and HUM:**

A 100' RG-6 drop was attached to a normal subscriber tap. A jumper was then connected from the tap to the input of the pre-amp, which was connected to the RF input of the spectrum analyzer. The measurements were done using the automated testing functions of the HP 8591C. The video modulation and the carrier were removed when instructed by the HP8591C automated testing functions.

### **4.5 Audio Difference:**

This measurement was made by the spectrum analyzer with the entire channel intact.

### **In-band Frequency Response:**

This test was done with the RG-6 drop connected to the input to the converter box, which the output was connected to the RF input of the spectrum analyzer. At the headend, the VITS 200 inserted the appropriate multiburst VITS.

### **24-Hour Level Test:**

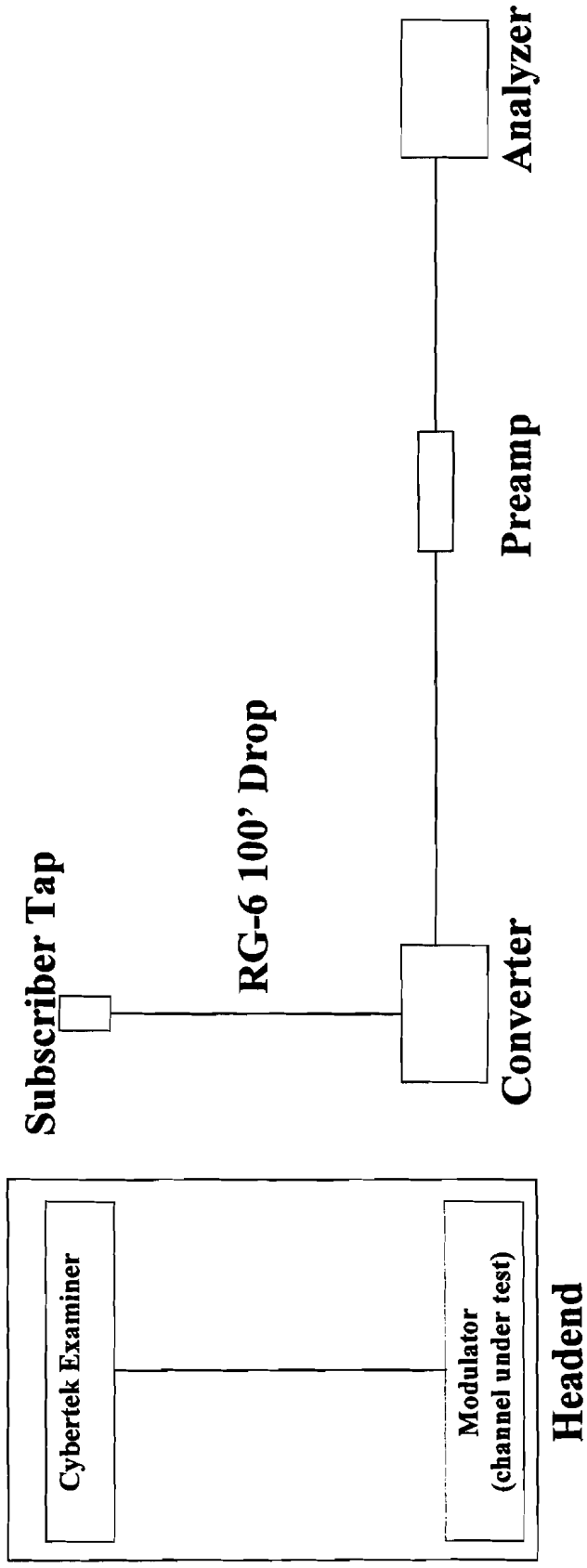
This test used the 100' RG-6 drop attached to the RF input of a Wavetek SDA5000 signal level meter.

### **Headend Color Test**

These tests were conducted with a VITS inserter connected to the modulator under test using the FCC composite test signal. A jumper was then run from the headend test point to a signal down converter, which was connected to a precision demodulator. The video output of the precision demodulator was then connected to the video input on a VM700A. All color tests were done using the VM700A.

# Comcast

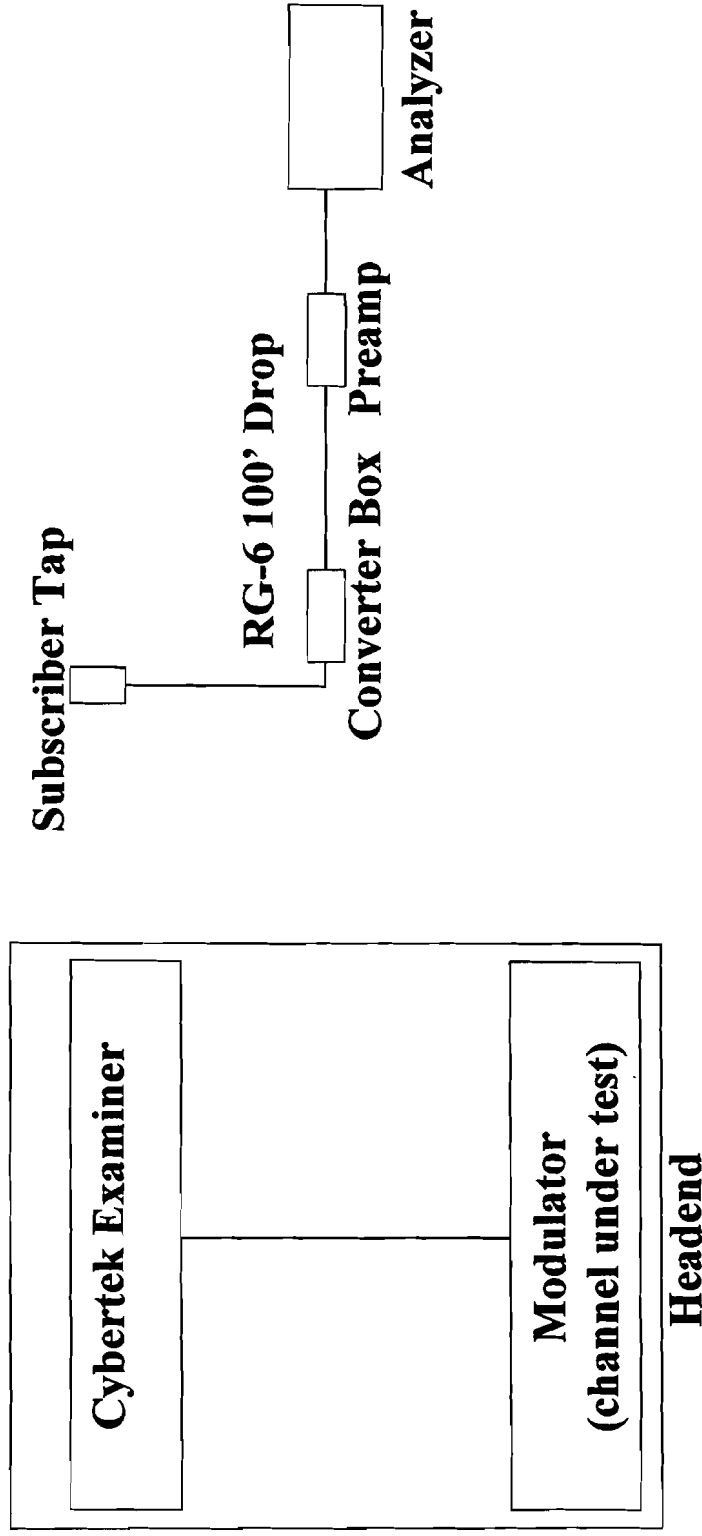
**Figure 1**  
**C/N, CTB, CSO**





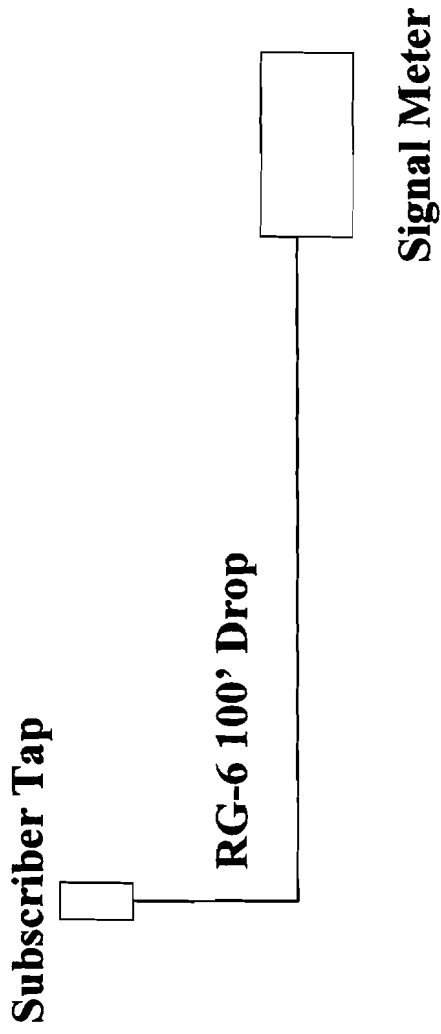


**Figure 2**  
**In-band Frequency Response, Hum and 4.5 Audio Diff**



# Comcast

## Figure 3 24 Hour Level Test





## Distortion Measurements

Comcast of Alexandria, VA performed distortion tests at 11 test points, as required by the FCC (76.601 (c)(1)), which states that at least 6 test points for the first 12,500 subscribers, adding 1 test point for each additional 12,500 subscribers. Comcast of Alexandria's subscriber count is 51,657 as of 07/01/05. All of Comcast's test points are distributed through the outer edges of the county at its farthest node locations, with the test points being at the end-of-line. Which meets the requirement that all geographic areas be represented and at least 1/3 of the test points being the most distant points in the system.

At each test point, 9 channels were tested for distortions as required by the FCC (76.601(c)(2)), which states at least 4 channels must be tested at each test point, adding 1 channel for each 100 MHz block above 100 MHz. Comcast of Arlington's analog bandwidth is 550 MHz.

### **Current FCC distortion specifications are as follows:**

The C/N measurement (76.605 (a)(7)(ii)) shall not be less than 43dB.

The CTB, CSO and X-mod measurements (76.605 (a)(8)(I)) shall not be less than 51dB.

The HUM measurement (76.605(a)(10)) shall not exceed 3.0%.

The Aural Carrier Difference (4.5 Difference)(76.605 (a)(2)) must be 4.5 MHz above the Visual Carrier, +/- 5KHz.

The In-Channel Frequency Response (In-Band Frequency Response) (76.605 (a)(6)) should not vary by more than +/- 2dB.

### Test Point #1

**Comcast**

85 S. Bragg St.  
Alexandria, VA

FCC Distortion Measurements

EQUIPMENT USED:

H/P 8591C, S/N 3916A04384

Pre-Amplifier 85905A, S/N 6093-0551

TRILITHIC VF-4-88, S/N 9330002

Tektronix VITS200, S/N B020963

CONVERTER BOX SA 8511, S/N GF505BFDN

Date: 08/15/05

Time: 9:00 am

Temp:82

CH.	FREQ. RSP 2dB Max	HUM% 3% Max	CSO 51dB Min	CTB 51dB Min	C/N 43dB Min	4.5 DIFF 5KHz Max
2	0.8	0.9	69.2	65.7	49.1	4.5000
95	0.9	1.3	68.3	64.1	46.5	4.5001
21	0.7	1.7	67	63.7	47.2	4.5000
8	0.7	1.2	66.5	64	46.8	4.5000
28	0.9	1.4	71.4	61.8	47.9	4.5000
32	0.6	1.4	66.1	61.5	48.3	4.5003
47	0.7	1.5	64.7	61.3	48.2	4.5000
58	1.1	1.4	63.8	61.3	47.1	4.5000
72	0.6	1.7	66.5	68.1	47	4.5001
Minimum values:			63.8	61.3	46.5	
Maximum values:	1.1	1.7				0.0003

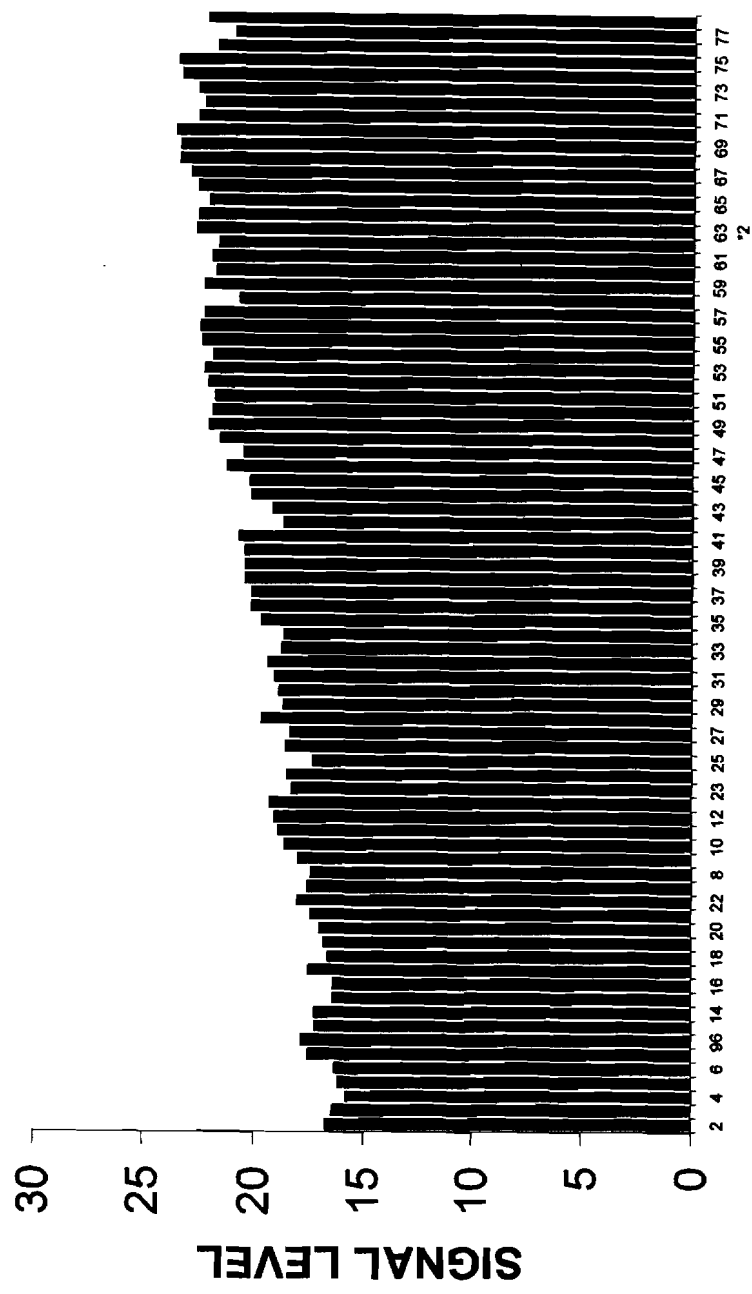


### Signal Level Variance

The ranges allowed by the FCC (76.605 (a)(4)(i,ii,iii)) are as follows:

4. Each level shall not vary by more than 8dB within any 6-month interval.
  - i. Adjacent channel level to be within 3dB of each other.
  - ii. Visual signal level on any other channel on a cable television system should be less than 10dB for systems of up to 300 MHz; for each additional 100 MHz, add 1dB to maximum difference level.
  - iii. A maximum level such that signal degradation due to overload in the subscriber's Receiver or terminal does not occur.

TEST POINT #1



CHANNEL

The maximum signal level is 23.7 dBmV

The maximum adjacent channel level difference is 2.7 dBmV  
The maximum level difference between the highest and lowest is 8.9 dBmV  
The maximum six month variance is 5.8 dBmV



**Test Point #1**



85 S. Bragg St.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338:

Date: 08/27/05

Run	1				2				3				4				
Temp	82				84				82				88				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
33	18.8	15.1	-0.6	3.8	19.0	15.4	-0.2	3.7	19.0	15.3	-0.6	4.8	18.8	15.2	-0.8	4.2	0.2
34	18.7	14.5	-0.1	2.7	18.6	14.4	-0.4	2.7	18.7	14.5	-0.3	3.8	18.7	14.6	-0.1	3.5	0.1
35	19.7	14.4	1.0	3.6	19.5	14.2	0.9	3.4	19.8	14.5	1.1	4.5	19.7	14.4	1.0	4.3	0.3
36	20.2	14.6	0.5	3.4	20.0	14.5	0.5	3.0	20.1	14.4	0.3	4.3	20.1	14.6	0.4	4.0	0.2
37	20.2	14.7	0.0	3.8	20.1	14.7	0.1	3.3	20.5	15.0	0.4	4.9	20.2	14.6	0.1	4.3	0.4
38	20.5	14.4	0.3	3.8	20.1	14.5	0.0	3.1	20.5	14.5	0.0	4.6	20.4	14.2	0.2	4.1	0.4
39	20.5	14.2	0.0	3.2	20.4	14.1	0.3	2.9	20.4	14.1	-0.1	4.0	20.4	14.2	0.0	3.6	0.1
40	20.5	14.7	0.0	3.4	20.7	14.9	0.3	3.2	20.6	14.8	0.2	3.9	20.6	14.8	0.2	3.5	0.2
41	20.8	14.9	0.3	3.3	21.2	15.4	0.5	3.6	21.1	15.3	0.5	4.3	21.2	15.3	0.6	4.0	0.4
42	18.7	14.0	-2.1	1.9	18.9	14.2	-2.3	1.9	18.9	14.2	-2.2	2.9	18.9	14.2	-2.3	2.7	0.2
43	19.2	14.6	0.5	1.1	19.4	14.8	0.5	1.3	19.5	14.9	0.6	1.7	19.4	14.8	0.5	1.5	0.3
44	20.2	14.7	1.0	2.3	20.4	14.8	1.0	2.1	20.5	15.0	1.0	2.8	20.4	14.9	1.0	2.9	0.3
45	20.3	14.6	0.1	3.5	20.7	15.0	0.3	3.7	20.4	14.8	-0.1	4.3	20.1	14.5	-0.3	3.6	0.6
46	21.4	14.7	1.1	3.0	21.3	14.7	0.6	2.4	21.5	14.8	1.1	3.5	21.2	14.5	1.1	2.8	0.3
47	20.6	13.5	-0.8	3.0	20.8	13.7	-0.5	2.7	20.7	13.6	-0.8	3.4	20.6	13.6	-0.6	2.9	0.2
48	21.7	14.6	1.1	2.3	21.6	14.5	0.8	2.1	21.5	14.4	0.8	2.8	21.7	14.8	1.1	2.6	0.2
49	22.2	14.9	0.5	3.9	22.5	15.3	0.9	3.7	22.4	15.1	0.9	4.7	22.3	15.0	0.6	4.4	0.3
50	22.0	14.8	-0.2	3.9	21.9	14.8	-0.6	3.4	22.0	14.8	-0.4	4.6	21.9	14.7	-0.4	4.0	0.1
51	21.9	14.9	-0.1	3.6	21.8	14.9	-0.1	3.2	22.0	15.1	0.0	4.3	21.8	14.9	-0.1	4.0	0.2
52	22.2	15.1	0.3	4.1	22.3	15.3	0.5	4.1	22.1	15.1	0.1	4.6	22.2	15.2	0.4	4.2	0.2
53	22.4	15.0	0.2	4.9	22.1	14.7	-0.2	4.3	22.1	14.7	0.0	5.3	22.5	15.2	0.3	5.1	0.4
54	22.0	14.6	-0.4	4.1	22.0	14.6	-0.1	4.0	22.1	14.6	0.0	4.6	21.9	14.5	-0.6	4.5	0.2
55	22.5	15.1	0.5	4.0	22.3	14.9	0.3	3.6	22.6	15.1	0.5	4.4	22.4	15.0	0.5	4.3	0.3
56	22.6	15.2	0.1	4.2	22.7	15.4	0.4	4.0	22.6	15.1	0.0	4.8	22.7	15.3	0.3	4.7	0.1
57	22.4	14.5	-0.2	4.3	22.5	14.6	-0.2	3.8	22.6	14.7	0.0	4.6	22.6	14.7	-0.1	4.3	0.2
58	20.8	15.2	-1.6	2.2	20.7	15.1	-1.8	1.9	20.8	15.3	-1.8	2.5	20.7	15.2	-1.9	2.3	0.1
59	22.4	15.1	1.6	3.8	22.2	14.9	1.5	3.3	22.2	14.9	1.4	3.8	22.0	14.7	1.3	3.9	0.4
60	21.9	14.7	-0.5	3.4	22.0	14.8	-0.2	3.2	21.9	14.8	-0.3	3.9	21.8	14.7	-0.2	3.1	0.2
61	22.1	15.0	0.2	3.7	22.1	15.0	0.1	3.5	22.0	14.9	0.1	4.4	22.0	15.0	0.2	4.1	0.1
62	21.8	14.1	-0.3	3.5	21.9	14.2	-0.2	3.0	21.8	14.0	-0.2	3.9	21.8	14.1	-0.2	3.5	0.1
63 *2	22.8	14.4	1.0	*2	22.9	14.6	1.0	*2	22.9	14.6	1.1	*2	22.8	14.7	1.0	*2	0.1
64	22.7	15.1	-0.1	3.1	22.7	15.2	0.7	2.6	22.7	15.3	0.8	3.7	22.5	15.2	0.7	3.0	0.2
65	22.2	14.5	-0.5	2.7	22.3	14.6	-0.4	2.5	22.1	14.4	-0.6	3.1	22.2	14.5	-0.3	2.4	0.2
66	22.7	14.8	0.5	3.0	22.5	14.5	0.2	2.5	22.6	14.7	0.5	3.2	22.6	14.8	0.4	2.9	0.2
67	23.0	14.3	0.3	3.5	22.7	14.1	0.2	2.5	23.0	14.6	0.4	3.6	23.0	14.7	0.4	3.4	0.3
68	23.5	14.5	0.5	4.1	23.4	14.4	0.7	3.5	23.4	14.5	0.4	4.5	23.4	14.6	0.4	3.9	0.1
69	23.5	14.7	0.0	3.5	23.5	14.6	0.1	3.1	23.6	14.6	0.2	3.8	23.6	14.8	0.2	3.5	0.1
70	23.7	14.8	0.2	4.2	23.5	14.7	0.0	3.4	23.7	14.9	0.1	4.3	23.6	14.9	0.0	4.0	0.2
71	22.7	15.0	0.4	2.8	22.6	14.9	0.9	2.3	22.8	15.1	0.7	3.3	22.8	15.2	1.2	2.8	0.2
72	22.4	15.4	-0.3	2.8	22.6	14.5	0.0	2.9	22.5	15.4	-0.3	3.4	22.8	15.4	0.0	3.3	0.4



**Test Point #1**



85 S. Bragg St.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338; Date: 08/27/05

Run	1				2				3				4				
	Time: 01:15:16				Time: 07:09:46				Time: 13:55:01				Time: 19:23:43				
Temp	82				84				82				88				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
73	22.7	14.7	0.3	2.9	22.5	14.6	-0.1	2.5	22.8	14.8	0.3	3.5	22.9	15.0	0.1	3.3	0.4
74	23.4	14.8	0.7	4.4	23.7	15.1	1.2	4.0	23.7	15.1	0.9	4.4	23.6	15.0	0.7	4.2	0.3
75	23.6	15.8	0.2	2.9	23.7	15.9	0.0	2.7	23.7	15.8	0.0	3.3	23.7	15.9	0.1	2.4	0.1
76	21.9	14.6	-1.7	2.8	21.9	14.5	-1.8	2.5	22.1	14.7	-1.6	3.3	22.0	14.6	-1.7	3.0	0.2
77	21.1	14.8	-0.8	2.2	21.0	14.7	-0.9	1.7	21.0	14.7	-1.1	2.0	20.7	14.5	-1.3	1.5	0.4
78	22.3	14.0	-1.2	2.8	21.7	13.4	-1.8	0.9	22.1	13.7	-1.5	1.8	21.6	13.3	-2.0	0.5	0.7
Min Value	15.8	11.6	-2.1	0.4	14.9	11.3	-2.3	-0.3	15.8	12.0	-2.2	1.7	14.8	10.0	-2.3	0.5	0.0
Max Value	23.7	15.8	1.6	4.9	23.7	15.9	2.2	4.3	23.7	15.8	1.5	5.8	23.7	15.9	2.7	5.7	2.1

Notes:

- \*1 - Station off air - standby by carrier in use
- \*2 - New channel addition there is no 6 month reference



## **Distortion Measurements**

Comcast of Alexandria, VA performed distortion tests at 11 test points, as required by the FCC (76.601 (c)(1)), which states that at least 6 test points for the first 12,500 subscribers, adding 1 test point for each additional 12,500 subscribers. Comcast of Alexandria's subscriber count is 51,657 as of 07/01/05. All of Comcast's test points are distributed through the outer edges of the county at its farthest node locations, with the test points being at the end-of-line. Which meets the requirement that all geographic areas be represented and at least 1/3 of the test points being the most distant points in the system.

At each test point, 9 channels were tested for distortions as required by the FCC (76.601(c)(2)), which states at least 4 channels must be tested at each test point, adding 1 channel for each 100 MHz block above 100 MHz. Comcast of Arlington's analog bandwidth is 550 MHz.

### **Current FCC distortion specifications are as follows:**

The C/N measurement (76.605 (a)(7)(ii)) shall not be less than 43dB.

The CTB, CSO and X-mod measurements (76.605 (a)(8)(I)) shall not be less than 51dB.

The HUM measurement (76.605(a)(10)) shall not exceed 3.0%.

The Aural Carrier Difference (4.5 Difference)(76.605 (a)(2)) must be 4.5 MHz above the Visual Carrier, +/- 5KHz.

The In-Channel Frequency Response (In-Band Frequency Response) (76.605 (a)(6)) should not vary by more than +/- 2dB.

**Test Point #2****Comcast**Tower Ct. & Whitting St.  
Alexandria, VA

FCC Distortion Measurements

EQUIPMENT USED:

H/P 8591C, S/N 3916A04384

Pre-Amplifier 85905A, S/N 6093-0551

TRILITHIC VF-4-88, S/N 9330002

Tektronix VITS200, S/N B020963

CONVERTER BOX SA 8511, S/N GF505BFDN

Date: 08/15/05

Time: 11:00 am

Temp: 85

CH.	FREQ. RSP 2dB Max	HUM% 3% Max	CSO 51dB Min	CTB 51dB Min	C/N 43dB Min	4.5 DIFF 5KHz Max
2	0.8	0.8	81.7	53.7	45.5	4.5000
95	0.7	1.1	67.8	63.6	46	4.5001
21	0.9	1	68.1	65.1	45.1	4.5000
8	1.2	1.3	68.5	61.8	45	4.5000
28	0.5	1.3	67	59.6	45.6	4.5000
32	0.6	1.2	66.5	57.5	45.7	4.5000
47	0.7	1.3	70.7	61	47.4	4.5000
58	0.4	1.4	69.6	61.6	46.6	4.5000
72	0.3	1.3	69.3	66.2	47.5	4.5000
Minimum values:			66.5	53.7	45	
Maximum values:	1.2	1.4				-0.0001

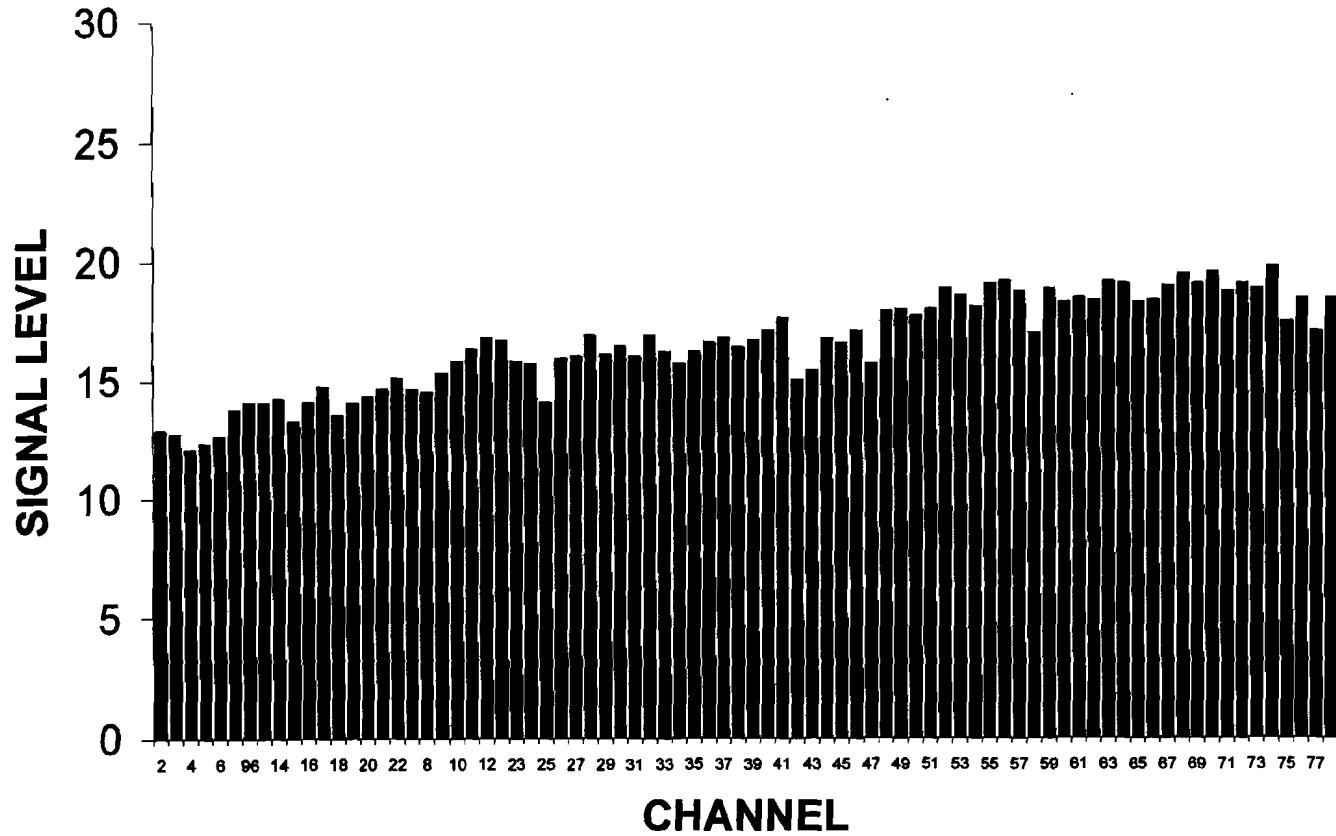


### Signal Level Variance

The ranges allowed by the FCC (76.605 (a)(4)(i,ii,iii)) are as follows:

4. Each level shall not vary by more than 8dB within any 6-month interval.
  - i. Adjacent channel level to be within 3dB of each other.
  - ii. Visual signal level on any other channel on a cable television system should be less than 10dB for systems of up to 300 MHz; for each additional 100 MHz, add 1dB to maximum difference level.
  - iii. A maximum level such that signal degradation due to overload in the subscriber's Receiver or terminal does not occur.

**TEST POINT #2**



■ The maximum signal level is 20.1 dBmV

The maximum adjacent channel level difference is 2.8 dBmV  
 The maximum level difference between the highest and lowest is 8.3 dBmV  
 The maximum six month variance is 3.4 dBmV

### Test Point #2

**Comcast**

Tower Ct. & S. Whitting St.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338;

Date: 08/27/05

Run	1				2				3				4				
	Time: 01:09:17				Time: 07:04:25				Time: 13:45:24				Time: 19:16:15				
Temp	84				84				84				88				
Chan	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	24 HR Vid Diff
2	12.9	12.7		-1.7	12.9	12.7		-2.5	12.9	12.8		-0.2	13.0	12.9		-0.3	0.1
3	12.8	15.0	-0.1	-3.2	12.9	15.2	0.0	-3.3	13.0	15.3	0.1	-1.0	12.9	15.1	-0.1	-1.2	0.2
4	12.1	15.1	-0.7	-2.2	11.9	14.9	-1.0	-2.8	12.2	15.3	-0.8	-0.4	12.0	15.0	-0.9	-0.8	0.3
5	12.4	14.6	0.3	-1.7	12.5	14.8	0.6	-1.9	12.4	14.6	0.2	0.0	12.4	14.6	0.4	-0.2	0.1
6	12.7	15.2	0.3	-1.9	12.9	15.4	0.4	-2.0	12.8	15.1	0.4	-0.3	13.1	15.5	0.7	0.2	0.4
95	13.8	14.0	1.1	0.1	13.7	14.0	0.8	-0.6	14.0	14.2	1.2	1.6	14.0	14.2	0.9	1.4	0.3
96	14.1	14.6	0.3	0.6	14.2	14.7	0.5	0.5	14.3	14.7	0.3	2.6	14.1	14.6	0.1	2.0	0.2
99	14.1	14.4	0.0	0.0	13.9	14.2	-0.3	-0.6	14.4	14.7	0.1	2.0	14.1	14.4	0.0	1.4	0.5
14	14.3	15.1	0.2	-0.4	14.2	14.9	0.3	-0.9	14.5	15.2	0.1	1.1	14.3	15.1	0.2	0.8	0.3
15	13.3	15.0	-1.0	-2.3	13.4	15.3	-0.8	-3.1	13.6	15.4	-0.9	-1.0	13.6	15.3	-0.7	-1.1	0.3
16	14.1	12.0	0.8	0.4	13.2	9.5	-0.2	-0.8	14.1	12.0	0.5	2.3	13.3	11.2	-0.3	0.5	0.9
17	14.8	14.1	0.7	-0.4	14.7	13.9	1.5	-0.9	14.4	14.5	0.3	0.6	14.7	14.8	1.4	0.8	0.4
18	13.6	14.6	-1.2	-1.5	13.6	14.6	-1.1	-1.9	14.0	14.9	-0.4	0.1	13.9	14.8	-0.8	-0.2	0.4
19	14.1	14.5	0.5	-0.7	11.8	12.2	-1.8	-3.3	13.9	14.3	-0.1	0.4	14.0	14.3	0.1	0.6	2.3
20	14.4	14.9	0.3	-1.4	14.6	15.0	2.8	-1.3	14.4	14.9	0.5	-0.3	14.6	15.1	0.6	0.5	0.2
21	14.7	14.8	0.3	-0.8	14.8	15.0	0.2	-1.0	14.7	14.8	0.3	-0.3	14.9	15.0	0.3	0.3	0.2
22	15.2	14.6	0.5	0.0	15.3	14.7	0.5	-0.3	15.2	14.6	0.5	1.0	15.3	14.6	0.4	0.9	0.1
7	14.7	14.8	-0.5	0.1	14.8	15.0	-0.5	-0.6	14.8	14.9	-0.4	1.3	14.9	15.1	-0.4	1.0	0.2
8	14.6	14.9	-0.1	-0.6	14.7	15.0	-0.1	-1.1	14.8	15.0	0.0	0.4	14.8	15.0	-0.1	2.9	0.2
9	15.4	15.1	0.8	0.1	15.4	14.9	0.7	-0.1	15.6	15.1	0.8	1.4	15.4	15.0	0.6	1.1	0.2
10	15.9	14.8	0.5	0.4	15.8	14.7	0.4	0.1	15.7	14.5	0.1	1.4	15.9	14.7	0.5	1.4	0.2
11	16.4	15.4	0.5	0.7	16.5	15.6	0.7	0.5	16.4	15.3	0.7	1.5	16.5	15.6	0.6	1.3	0.1
12	16.9	15.8	0.5	1.1	16.5	15.4	0.0	0.4	16.9	15.6	0.5	2.4	16.8	15.6	0.3	2.3	0.4
13	16.8	15.3	-0.1	0.9	16.7	15.2	0.2	0.4	16.7	15.1	-0.2	1.8	14.2	15.3	-2.6	0.0	2.6
23	15.9	15.0	-0.9	0.0	15.8	15.1	-0.9	-0.7	15.9	15.0	-0.8	0.7	15.7	14.9	1.5	0.3	0.2
24	15.8	14.9	-0.1	0.0	15.5	14.6	-0.3	-0.6	15.3	14.3	-0.6	0.3	15.5	14.5	-0.2	0.0	0.5
25	14.1	14.2	-1.7	-1.9	14.9	15.0	-0.6	-1.5	14.8	14.8	-0.5	-0.1	15.1	15.1	-0.4	0.1	1.0
26	16.0	14.7	1.9	-0.8	15.9	14.6	1.0	-1.2	16.0	14.5	1.2	-0.2	16.0	14.6	0.9	-0.4	0.1
27	16.1	14.5	0.1	-0.3	15.8	14.3	-0.1	-0.9	16.1	14.5	0.1	0.8	15.9	14.3	-0.1	0.3	0.3
28	17.0	15.2	0.9	0.5	17.0	15.4	1.2	0.3	17.1	15.3	1.0	1.5	17.1	15.2	1.2	1.4	0.1
29	16.2	14.5	-0.8	-0.3	16.3	14.8	-0.7	-0.4	16.3	14.6	-0.8	0.8	16.4	14.8	-0.7	0.3	0.2
30	16.6	15.1	0.4	0.2	16.5	15.1	0.2	-0.1	16.5	15.0	0.2	1.2	16.5	15.0	0.1	0.9	0.1
31	16.1	14.6	-0.5	-0.6	16.1	14.7	-0.4	-0.8	16.3	14.9	-0.2	0.5	16.1	14.6	-0.4	-0.1	0.2
32	17.0	14.7	0.9	0.2	17.0	14.8	0.9	-0.3	17.0	14.7	0.7	0.4	17.0	14.8	0.9	0.5	0.0

**Test Point #2**



Tower Ct. & S. Whitting St.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338:

Date: 08/27/05

Run	1				2				3				4				
	Time: 01:09:17				Time: 07:04:25				Time: 13:45:24				Time: 19:16:15				
Temp	84				84				84				88				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
33	16.3	15.3	-0.7	-0.1	16.3	15.3	-0.7	-0.6	16.5	15.5	-0.5	1.3	16.5	15.4	-0.5	0.7	0.2
34	15.8	14.9	-0.5	-0.9	15.9	14.9	-0.4	-1.0	15.8	14.8	-0.7	-0.1	15.9	14.9	-0.6	-0.6	0.1
35	16.3	14.3	0.5	-0.3	16.1	14.1	0.2	-0.4	16.2	14.1	0.4	0.3	16.3	14.3	0.4	0.2	0.2
36	16.7	14.5	0.4	-0.6	16.6	14.4	0.5	-0.8	16.8	14.6	0.6	0.3	16.9	14.6	0.6	0.1	0.3
37	16.9	14.8	0.2	-0.1	16.9	14.8	0.3	-0.5	17.2	15.1	0.4	0.6	17.1	14.9	0.2	0.3	0.3
38	16.5	14.5	-0.4	-1.0	16.5	14.5	-0.4	-1.2	17.4	15.4	0.2	0.6	17.5	14.5	0.4	0.3	1.0
39	16.8	14.0	0.3	-0.6	16.6	13.8	0.1	-1.6	16.8	14.0	-0.6	-0.4	16.7	13.9	-0.8	-0.7	0.2
40	17.2	14.8	0.4	-0.9	17.0	14.6	0.4	-1.4	17.4	15.0	0.6	-0.2	17.3	14.8	0.6	-0.7	0.4
41	17.7	15.6	0.5	-1.2	17.7	15.5	0.7	-1.7	17.5	15.4	0.1	-1.1	17.7	15.5	0.4	-0.9	0.2
42	15.1	14.5	-2.6	-2.4	15.1	14.4	-2.6	-3.4	15.0	14.3	-2.5	-1.9	15.1	14.4	-2.6	-2.8	0.1
43	15.5	15.2	0.4	-2.9	15.3	14.5	0.2	-3.1	15.5	14.8	0.5	-2.4	15.4	14.6	0.3	-2.4	0.2
44	16.9	14.9	1.4	-1.5	16.8	14.9	1.5	-1.8	16.9	15.0	1.4	-1.1	16.9	14.9	1.5	-1.3	0.1
45	16.7	14.8	-0.2	-0.6	16.5	14.6	-0.3	-1.5	16.6	14.9	-0.3	-0.4	16.5	14.8	-0.4	-0.6	0.2
46	17.2	15.8	0.5	-1.5	17.2	15.8	0.7	-1.8	17.4	15.0	0.8	-0.9	17.4	15.1	0.9	-1.1	0.2
47	15.8	12.7	-1.4	-2.7	15.6	12.4	-1.6	-3.2	16.0	13.2	-1.4	-2.1	15.1	12.0	-2.3	-3.0	0.9
48	18.0	14.7	2.2	-2.3	17.8	14.5	2.2	-3.1	17.6	14.5	1.6	-2.4	17.5	14.3	2.4	-2.8	0.5
49	18.1	15.1	0.1	-0.9	18.1	15.1	0.3	-1.2	18.1	15.1	0.5	-0.6	18.1	15.1	0.6	-0.8	0.0
50	17.8	14.5	-0.3	-1.0	17.5	14.3	-0.6	-2.0	17.7	14.4	-0.4	-0.7	17.9	14.6	-0.2	-0.8	0.4
51	18.1	14.4	0.3	-0.8	18.0	14.4	0.5	-1.8	18.3	14.7	0.6	-0.6	18.3	14.7	0.4	-0.7	0.3
52	19.0	15.2	0.9	-0.9	19.0	15.3	1.0	-1.3	19.0	15.4	0.7	-0.6	18.9	15.3	0.6	-1.1	0.1
53	18.7	15.0	-0.3	-0.3	18.6	15.0	-0.4	-1.0	18.6	14.9	-0.4	0.0	18.7	15.1	-0.2	0.0	0.1
54	18.2	14.4	-0.5	-1.1	18.3	14.7	-0.3	-1.5	18.2	14.4	-0.4	-1.0	18.3	14.5	-0.4	-0.7	0.1
55	19.2	15.0	1.0	-0.7	19.1	15.0	0.8	-1.0	19.1	14.9	0.9	-0.7	19.1	14.9	0.8	-0.7	0.1
56	19.3	15.6	0.1	-0.5	19.2	15.5	0.1	-0.9	19.3	15.5	0.2	-0.5	19.3	15.5	0.2	-0.6	0.1
57	18.9	14.7	-0.4	-0.9	18.7	14.5	-0.5	-1.4	19.0	14.9	-0.3	-0.5	18.9	14.8	-0.4	-0.8	0.3
58	17.1	15.1	-1.8	-2.7	17.0	15.0	-1.7	-3.4	16.9	14.9	-2.1	-2.7	17.0	14.9	-1.9	-3.2	0.2
59	19.0	14.8	1.9	-1.7	19.0	14.7	2.0	-2.0	19.1	14.9	2.2	-1.2	18.9	14.6	1.9	-1.5	0.2
60	18.4	14.8	-0.6	-1.2	18.3	14.8	-0.7	-2.1	18.5	14.9	-0.6	-1.3	18.7	15.1	-0.2	-1.3	0.4
61	18.6	15.2	0.2	-0.9	18.5	15.2	0.2	-1.6	18.4	15.1	-0.1	-0.8	18.5	15.1	-0.2	-1.2	0.2
62	18.5	14.2	-0.1	-1.1	18.4	14.1	-0.1	-1.5	18.3	14.1	-0.1	-1.1	18.0	14.1	-0.5	0.0	0.5
63	19.3	14.7	0.8	*2	19.3	14.7	0.9	*2	19.0	14.5	0.7	*2	19.1	14.5	1.1	*2	0.3
64	19.2	15.4	0.8	-1.0	19.0	15.3	0.7	-1.3	18.9	15.2	0.4	-1.1	19.0	15.2	0.3	-1.4	0.3
65	18.4	15.2	-0.8	-1.2	18.3	14.6	-0.7	-2.0	18.2	14.6	-0.7	-1.4	18.1	14.4	-0.9	-1.8	0.3
66	18.5	14.5	0.1	-1.2	18.4	14.5	0.1	-1.8	18.1	14.3	-0.1	-1.4	18.6	14.7	0.5	-1.3	0.5
67	19.1	14.3	0.6	-0.5	19.4	14.6	1.0	-0.4	19.2	14.5	1.1	-0.3	19.2	14.5	0.6	-0.2	0.3
68	19.6	14.6	0.5	0.5	19.7	14.8	0.3	-0.1	19.6	14.8	0.4	0.6	19.6	14.8	0.4	0.4	0.1
69	19.2	14.0	-0.4	0.1	19.3	14.1	-0.4	-0.3	19.3	14.4	-0.3	0.0	19.2	14.1	-0.4	-0.2	0.1
70	19.7	14.6	0.5	0.8	19.8	14.7	0.5	0.3	19.6	14.5	0.3	0.6	19.8	14.7	0.6	0.5	0.2
71	18.9	14.8	0.3	0.0	19.0	14.9	-0.3	-0.4	19.0	15.0	-0.1	0.1	19.1	15.1	1.0	0.0	0.2
72	19.2	14.5	0.3	0.7	19.0	14.5	0.0	-0.1	19.1	14.5	0.1	0.7	19.5	15.4	0.4	0.8	0.5

**Test Point #2**

**comcast**

Tower Ct. & S. Whitting St.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338; Date: 08/27/05

Run	1				2				3				4				
	Time: 01:09:17				Time: 07:04:25				Time: 13:45:24				Time: 19:16:15				
Temp	84				84				84				88				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
73	19.0	14.5	-0.2	0.4	19.2	14.7	0.2	0.2	19.2	14.8	0.1	0.7	19.3	14.8	-0.2	0.8	0.3
74	19.9	14.9	0.9	2.1	19.9	14.9	0.7	1.4	20.1	15.1	0.9	2.3	20.0	15.0	0.7	1.9	0.2
75	17.6	13.2	-2.3	-2.5	20.1	15.9	0.2	0.5	20.0	15.7	-0.1	1.1	19.9	15.6	-0.1	-0.4	2.5
76	18.6	15.0	1.0	1.1	18.2	14.5	-1.9	0.2	18.6	14.8	-1.4	0.8	18.5	14.7	-1.4	0.7	0.4
77	17.2	14.8	-1.4	0.0	17.2	14.9	-1.0	-0.6	17.0	14.6	-1.6	0.0	17.1	14.7	-1.4	-0.4	0.2
78	18.6	14.0	-0.6	1.7	19.3	14.7	0.0	-0.2	19.1	14.4	-0.2	-0.3	18.1	13.3	-1.1	-0.5	1.2
Min Value	12.1	12.0	-2.6	-3.2	11.8	9.5	-2.6	-3.4	12.2	12.0	-2.5	-2.7	12.0	11.2	-2.6	-3.2	0.0
Max Value	19.9	15.8	2.2	2.1	20.1	15.9	2.8	1.4	20.1	15.7	2.2	2.6	20.0	15.6	2.4	2.9	2.6

Notes:

- \*1 - Station off air - standby by carrier in use
- \*2 - New channel addition there is no 6 month reference





## Distortion Measurements

Comcast of Alexandria, VA performed distortion tests at 11 test points, as required by the FCC (76.601 (c)(1)), which states that at least 6 test points for the first 12,500 subscribers, adding 1 test point for each additional 12,500 subscribers. Comcast of Alexandria's subscriber count is 51,657 as of 07/01/05. All of Comcast's test points are distributed through the outer edges of the county at its farthest node locations, with the test points being at the end-of-line. Which meets the requirement that all geographic areas be represented and at least 1/3 of the test points being the most distant points in the system.

At each test point, 9 channels were tested for distortions as required by the FCC (76.601(c)(2)), which states at least 4 channels must be tested at each test point, adding 1 channel for each 100 MHz block above 100 MHz. Comcast of Arlington's analog bandwidth is 550 MHz.

### **Current FCC distortion specifications are as follows:**

The C/N measurement (76.605 (a)(7)(ii)) shall not be less than 43dB.

The CTB, CSO and X-mod measurements (76.605 (a)(8)(I)) shall not be less than 51dB.

The HUM measurement (76.605(a)(10)) shall not exceed 3.0%.

The Aural Carrier Difference (4.5 Difference)(76.605 (a)(2)) must be 4.5 MHz above the Visual Carrier, +/- 5KHz.

The In-Channel Frequency Response (In-Band Frequency Response) (76.605 (a)(6)) should not vary by more than +/- 2dB.

### Test Point #3

**comcast**

1 N. Donelson St.  
Alexandria, VA

FCC Distortion Measurements

EQUIPMENT USED:

H/P 8591C, S/N 3916A04384

Pre-Amplifier 85905A, S/N 6093-0551

TRILITHIC VF-4-88, S/N 9330002

Tektronix VITS200, S/N B020963

CONVERTER BOX SA 8511, S/N GF505BFDN

Date:08/15/05

Time: 2:30 pm

Temp: 85

CH.	FREQ. RSP 2dB Max	HUM% 3% Max	CSO 51dB Min	CTB 51dB Min	C/N 43dB Min	4.5 DIFF 5KHz Max
2	0.3	0.8	65.5	51.8	49.2	4.5000
95	0.8	0.9	59.2	58.9	46.4	4.5000
21	0.8	1.4	69.2	56.5	46.6	4.5000
8	0.8	1.4	68.3	59.2	47.1	4.5001
28	0.7	1.3	68.8	59.1	46.3	4.5000
32	0.3	1.6	74.3	60.6	47.4	4.5000
47	0.7	1.3	71.3	60.3	47.7	4.5003
58	1.3	1.5	74	61	47.5	4.5000
72	0.9	1.7	75.3	60.6	47.9	4.5000
Minimum values:			59.2	51.8	46.3	
Maximum values:	1.3	1.7				0.0003

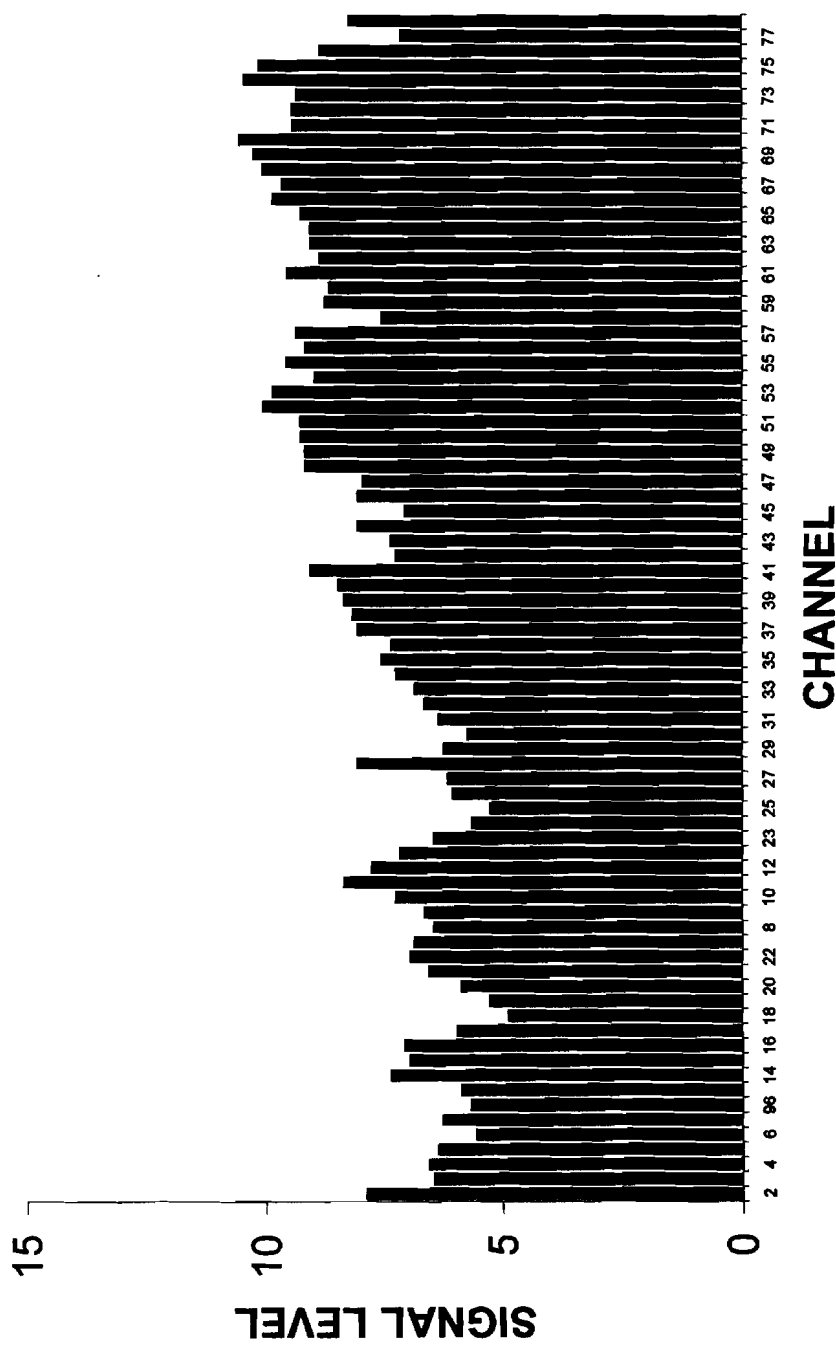


### Signal Level Variance

The ranges allowed by the FCC (76.605 (a)(4)(i,ii,iii)) are as follows:

4. Each level shall not vary by more than 8dB within any 6-month interval.
  - i. Adjacent channel level to be within 3dB of each other.
  - ii. Visual signal level on any other channel on a cable television system should be less than 10dB for systems of up to 300 MHz; for each additional 100 MHz, add 1dB to maximum difference level.
  - iii. A maximum level such that signal degradation due to overload in the subscriber's Receiver or terminal does not occur.

**TEST POINT #3**



■ The maximum signal level is 19.8 dBmV

The maximum adjacent channel level difference is 2.5 dBmV  
The maximum level difference between the highest and lowest is 5.7 dBmV  
The maximum six month variance is 3.9 dBmV

**Test Point #3**



1 N. Donelson St.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338; Date: 08/27/05

Run	1				2				3				4				
	Time: 00:49:36				Time: 06:52:30				Time: 13:29:43				Time: 19:06:40				
Temp	84				86				84				95				
Chan	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	24 HR Vid Diff
2	7.9	13.4		-0.9	8.5	13.2		0.3	8.6	13.3		0.2	8.6	13.3		0.2	0.7
3	6.5	19.8	-1.4	-2.4	8.1	15.0	-0.4	-0.4	8.6	14.9	0.0	0.0	8.0	14.9	-0.6	-0.4	2.1
4	6.6	12.7	0.1	-1.7	7.5	15.3	-0.6	-0.4	8.2	15.3	-0.4	0.0	7.2	14.9	-0.8	-0.6	1.6
5	6.4	11.6	-0.2	-1.8	7.7	15.1	0.2	-0.3	7.7	15.0	-0.5	-0.4	7.6	14.9	0.4	-0.3	1.3
6	5.6	13.0	-0.8	-2.8	7.5	15.1	-0.2	-0.4	7.8	15.3	0.1	0.0	7.6	15.2	0.0	-0.5	2.2
95	6.3	16.8	0.7	-1.4	8.7	14.4	1.2	0.7	8.8	14.6	1.0	0.9	8.9	14.7	1.3	1.3	2.6
96	5.7	16.5	-0.6	-2.0	8.7	14.7	0.0	1.2	8.3	14.3	-0.5	0.7	8.4	14.5	-0.5	1.2	3.0
99	5.9	18.1	0.2	-1.3	8.3	14.5	-0.4	0.5	7.4	14.5	-0.9	0.0	8.0	14.4	-0.4	0.4	2.4
14	7.4	13.8	1.5	1.3	8.2	15.5	-0.1	1.0	8.2	15.5	0.8	0.6	7.2	15.3	-0.8	0.0	1.0
15	7.0	16.0	-0.4	-1.6	7.2	15.3	-1.0	-0.9	7.1	15.3	-1.1	-1.9	6.9	15.0	-0.3	-1.2	0.3
16	7.1	10.3	0.1	-0.9	7.6	11.8	0.4	0.1	6.7	11.8	-0.4	-0.9	7.2	12.3	0.3	-0.3	0.9
17	6.0	13.8	-1.1	-2.6	8.0	14.9	0.4	-0.4	7.9	14.6	1.2	-0.2	7.9	14.2	0.7	-0.4	2.0
18	4.9	15.2	-1.1	-3.9	7.0	14.5	-1.0	-1.6	8.6	14.8	0.7	0.0	6.7	14.3	-1.2	-1.6	3.7
19	5.3	13.9	0.4	-2.9	5.4	12.4	-1.6	-3.1	7.4	14.4	-1.2	-1.7	7.5	14.5	0.8	-0.9	2.2
20	5.9	14.6	0.6	-3.2	7.5	15.1	2.1	-1.3	7.4	15.1	0.0	-1.2	7.5	15.2	0.0	-1.2	1.6
21	6.6	13.9	0.7	-2.0	7.6	15.0	0.1	-1.1	7.0	15.3	-0.4	0.0	7.7	15.1	0.2	-0.7	1.1
22	7.0	13.9	0.4	-1.1	8.1	14.5	0.5	0.5	7.9	14.2	0.9	0.2	7.9	14.2	0.2	0.1	1.1
7	6.9	14.5	-0.1	-1.1	7.9	15.2	-0.2	0.4	8.0	15.4	0.1	-0.3	8.0	15.3	0.1	0.3	1.1
8	6.5	14.7	-0.4	-3.5	7.7	15.5	-0.2	0.0	7.6	15.4	-0.4	-0.1	7.8	15.6	-0.2	0.0	1.3
9	6.7	13.6	0.2	-2.9	7.9	15.0	0.2	-0.1	8.0	14.9	0.4	-0.3	9.0	15.0	1.2	0.0	2.3
10	7.3	13.7	0.6	-1.9	8.3	14.6	0.4	-1.0	8.5	14.7	0.5	2.2	8.5	14.6	-0.5	-0.8	1.2
11	8.4	15.6	1.1	-0.8	8.8	15.4	0.5	-0.2	9.2	15.7	0.7	0.7	9.1	15.6	0.6	0.1	0.8
12	7.8	15.9	-0.6	-1.4	9.4	16.1	0.6	1.0	9.2	15.7	0.0	-0.2	9.3	15.8	0.2	0.5	1.6
13	7.2	14.5	-0.6	-2.1	9.0	15.2	-0.4	0.1	9.2	15.4	0.0	2.4	9.4	15.6	0.1	0.6	2.2
23	6.5	14.7	-0.7	-3.1	7.8	14.5	-1.2	-0.7	8.0	14.5	-1.2	1.1	8.1	14.6	-1.3	-0.7	1.6
24	5.7	14.1	-0.8	-3.5	7.9	15.0	0.1	-1.1	7.8	14.7	-0.2	-0.8	7.8	14.7	-0.3	-1.5	2.2
25	5.3	15.0	-0.4	-3.5	6.6	14.7	-1.3	-1.9	6.2	14.0	-1.6	-2.5	6.9	14.8	-0.9	-1.7	1.6
26	6.1	15.0	0.8	-3.3	8.0	14.5	1.4	-1.1	8.2	14.4	2.0	-1.2	8.2	14.5	1.3	-1.1	2.1
27	6.2	14.0	0.1	-3.0	8.2	14.5	0.2	-0.8	8.5	14.7	0.3	-0.3	8.6	14.8	0.4	-0.4	2.4
28	8.1	15.7	1.9	-0.9	9.4	15.7	1.2	1.3	9.5	15.6	1.0	0.7	9.5	15.6	0.9	0.6	1.4
29	6.3	14.9	-1.8	-2.4	8.5	14.8	-0.9	0.2	8.5	14.7	-1.0	1.4	8.3	14.6	-1.2	0.0	2.2
30	5.8	14.0	-0.5	-2.8	8.2	14.4	-0.3	-0.2	8.1	14.3	-0.4	1.7	8.2	14.4	-0.1	-0.2	2.4
31	6.4	15.1	0.6	-2.2	8.1	14.5	-0.1	-0.2	6.5	14.6	-1.6	0.0	8.2	14.7	0.0	-0.1	1.8
32	6.7	14.4	0.3	-2.1	8.8	14.8	0.7	0.1	9.0	15.0	2.5	0.1	9.1	15.1	0.9	0.4	2.4

**Test Point #3**



1 N. Donelson St.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338; Date: 08/27/05

Run	1				2				3				4				
Temp	84				86				84				95				
	Time: 00:49:36				Time: 06:52:30				Time: 13:28:43				Time: 19:06:40				
Chan	Vid	Aud	Adjicnt	6 Mth	Vid	Aud	Adjicnt	6 Mth	Vid	Aud	Adjicnt	6 Mth	Vid	Aud	Adjicnt	6 Mth	24 HR
33	6.9	15.3	0.2	-1.6	8.1	15.1	-0.7	0.0	8.0	15.1	-1.0	0.0	8.3	15.1	-0.8	0.2	1.4
34	7.3	15.1	0.4	-1.5	8.2	14.9	0.1	-0.6	8.3	14.9	0.3	-0.4	8.2	14.8	-0.1	-0.6	1.0
35	7.6	15.1	0.3	-1.5	8.7	15.2	0.5	0.0	9.0	15.3	0.7	2.7	8.8	15.2	0.6	0.1	1.4
36	7.4	14.7	-0.2	-1.7	8.1	14.4	-0.6	-0.6	8.4	14.7	-0.6	-0.4	8.6	14.6	-0.2	-0.1	1.2
37	8.1	14.7	0.7	-0.9	8.7	14.5	0.6	-0.1	6.0	14.5	-2.4	0.0	9.0	14.6	0.4	0.2	3.0
38	8.2	14.5	0.1	-1.4	8.9	14.5	0.2	-0.9	6.8	14.5	0.8	0.0	9.0	14.4	0.0	-0.8	2.2
39	8.4	14.3	0.2	-1.7	9.2	14.4	0.3	-0.8	7.0	14.4	0.2	0.0	9.1	14.3	0.1	-0.9	2.2
40	8.5	15.3	0.1	-0.9	9.3	15.2	0.1	0.2	9.3	15.2	2.3	-0.5	9.3	15.2	0.2	0.2	0.8
41	9.1	15.0	0.6	-1.0	9.8	14.9	0.5	-0.2	9.9	15.0	0.6	0.2	9.8	14.8	0.5	-0.2	0.8
42	7.3	14.3	-1.8	-1.9	8.0	14.4	-1.8	-1.1	7.9	14.4	-2.0	-1.2	7.8	14.2	-2.0	-1.3	0.7
43	7.4	15.2	0.1	-2.7	8.1	15.2	0.1	-1.8	8.0	15.0	0.1	-0.8	8.1	14.9	0.3	-1.8	0.7
44	8.1	15.4	0.7	-2.2	8.9	15.2	0.8	-1.4	9.2	15.3	1.2	0.0	9.1	15.2	1.0	-1.2	1.1
45	7.1	14.0	-1.0	-1.8	8.1	14.1	-0.8	-0.7	8.3	14.1	-0.9	1.6	8.2	14.2	-0.9	-0.6	1.2
46	8.1	14.5	1.0	-2.8	9.1	14.7	1.0	-1.5	9.6	14.7	1.3	0.4	9.3	15.4	1.1	-1.3	1.5
47	8.0	13.7	-0.1	-2.6	8.9	13.8	-0.2	-1.7	8.8	14.1	-0.8	-0.1	8.2	13.3	-1.1	-2.4	0.9
48	9.2	15.0	1.2	-2.2	9.7	14.7	0.8	-1.7	9.6	14.8	0.8	0.3	9.7	14.8	1.5	-1.7	0.5
49	9.2	15.1	0.0	-0.2	9.9	14.8	0.2	0.6	9.9	14.9	0.3	2.5	9.9	14.8	0.2	0.6	0.7
50	9.3	14.8	0.1	-0.5	9.8	14.6	0.1	0.5	9.4	14.2	-0.5	1.2	9.9	14.7	0.0	0.6	0.6
51	9.3	14.6	0.0	-1.0	9.9	14.4	0.1	0.0	10.2	14.8	0.8	2.1	10.1	14.5	0.2	0.2	0.9
52	10.1	15.4	0.8	-0.9	11.0	15.6	1.1	0.3	11.0	15.5	0.8	2.0	10.9	15.3	0.8	0.2	0.9
53	9.9	15.3	-0.2	-0.1	10.5	15.0	-0.5	0.4	10.6	15.1	-0.4	2.1	10.8	15.3	-0.1	0.7	0.9
54	9.0	14.8	-0.9	-0.5	9.9	14.7	-0.6	0.5	9.9	14.6	-0.7	2.0	9.9	14.6	-0.9	0.5	0.9
55	9.6	15.2	0.6	-0.7	10.5	15.0	0.6	0.5	10.5	14.9	0.6	2.6	10.5	14.9	0.6	0.5	0.9
56	9.2	14.5	-0.4	-0.9	10.4	14.6	-0.1	0.5	10.4	14.5	-0.1	2.4	10.4	14.6	-0.1	0.5	1.2
57	9.4	14.5	0.2	-1.0	10.4	14.5	0.0	0.2	10.6	14.6	0.2	2.4	10.5	14.5	0.1	0.3	1.2
58	7.6	15.3	-1.8	-3.0	8.5	15.3	-1.9	-1.9	8.5	15.3	-2.1	0.3	8.5	15.3	-2.0	-1.9	0.9
59	8.8	14.6	1.2	-1.3	9.7	14.4	1.2	-0.1	9.6	14.3	1.1	2.8	9.8	14.6	1.3	0.0	1.0
60	8.7	14.3	-0.1	-1.7	9.6	14.4	-0.1	-0.4	9.7	14.6	0.1	2.7	9.7	14.5	-0.1	-0.3	1.0
61	9.6	15.2	0.9	-0.7	10.2	15.1	0.6	-0.4	10.1	15.1	0.4	2.9	10.0	15.0	0.3	-0.6	0.6
62	8.9	14.5	-0.7	-1.7	9.8	14.6	-0.4	-0.6	9.9	14.6	-0.2	3.0	9.4	14.1	-0.6	-1.0	1.0
63	9.1	14.2	0.2	*2	9.9	14.4	0.1	*2	9.7	14.4	-0.2	*2	9.7	14.3	0.3	*2	0.8
64	9.1	14.3	0.4	-1.6	9.8	14.5	0.2	-0.8	9.6	14.4	-0.1	1.3	9.8	14.4	0.1	-0.8	0.7
65	9.3	14.3	0.2	-2.0	9.9	14.2	0.1	-1.1	9.7	14.1	0.1	0.5	10.0	14.2	0.2	-1.0	0.7
66	9.9	15.0	0.6	-1.7	10.4	15.1	0.5	-0.8	10.3	15.1	0.6	0.6	10.5	15.3	0.5	-0.7	0.6
67	9.7	14.5	-0.2	-1.7	10.5	14.7	0.1	-0.9	10.5	14.8	0.2	0.4	10.6	15.0	0.1	-0.8	0.9
68	10.1	14.0	0.4	-1.1	10.6	14.0	0.1	-0.5	10.8	14.2	0.3	1.2	10.6	14.2	0.0	-0.5	0.7
69	10.3	14.1	0.2	-1.6	10.9	14.1	0.3	-0.7	10.9	14.4	0.1	0.4	10.8	14.3	0.2	-0.8	0.6
70	10.6	14.8	0.3	-0.8	11.1	14.8	0.2	-0.2	11.2	14.9	0.3	0.7	11.3	15.1	0.5	0.1	0.7
71	9.5	14.6	1.2	-2.1	10.0	14.6	1.0	-1.2	10.2	14.8	0.2	-0.2	10.3	14.9	1.2	-1.3	0.8
72	9.5	14.5	0.0	-2.0	10.2	14.8	0.2	-1.3	10.1	14.5	-0.1	-0.2	10.4	14.4	0.1	-0.9	0.9

**Test Point #3**



1 N. Donelson St.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338: Date: 08/27/05

Run	1				2				3				4				
	Time: 00:49:36				Time: 06:52:30				Time: 13:29:43				Time: 19:08:40				
Temp	84				86				84				95				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
73	9.4	14.8	-0.1	-1.9	10.3	15.0	0.1	-0.8	9.9	14.6	-0.2	-0.3	10.1	14.8	-0.3	-0.9	0.9
74	10.5	15.1	1.1	-0.6	10.9	14.9	0.6	-0.6	11.1	15.1	1.2	1.2	10.9	14.9	0.8	-0.4	0.6
75	10.2	15.6	-0.3	-2.2	10.9	15.7	0.0	-1.3	11.0	15.7	-0.1	0.1	11.0	15.7	0.1	-1.0	0.8
76	8.9	14.8	-1.3	-2.1	9.6	14.9	-1.3	-1.5	9.7	14.9	-1.3	0.1	9.5	14.7	-1.5	-1.5	0.8
77	7.2	15.0	-1.7	-3.3	7.7	15.0	-1.9	-2.4	7.6	14.8	-2.1	-1.8	7.7	14.9	-1.8	-2.9	0.5
78	8.3	14.3	-2.0	-3.0	9.0	14.3	-1.9	-2.2	10.0	15.2	-0.9	0.6	9.1	14.3	-1.7	-2.3	1.7
Min Value	4.9	10.3	-2.0	-3.9	5.4	11.8	-1.9	-3.1	6.0	11.8	-2.4	-2.5	6.7	12.3	-2.0	-2.9	0.3
Max Value	10.6	19.8	1.9	1.3	11.1	16.1	2.1	1.3	11.2	15.7	2.5	3.0	11.3	15.8	1.5	1.3	3.7

Notes:

- \*1 - Station off air - standby by carrier in use
- \*2 - New channel addition there is no 6 month reference



## **Distortion Measurements**

Comcast of Alexandria, VA performed distortion tests at 11 test points, as required by the FCC (76.601 (c)(1)), which states that at least 6 test points for the first 12,500 subscribers, adding 1 test point for each additional 12,500 subscribers. Comcast of Alexandria's subscriber count is 51,657 as of 07/01/05. All of Comcast's test points are distributed through the outer edges of the county at its farthest node locations, with the test points being at the end-of-line. Which meets the requirement that all geographic areas be represented and at least 1/3 of the test points being the most distant points in the system.

At each test point, 9 channels were tested for distortions as required by the FCC (76.601(c)(2)), which states that at least 4 channels must be tested at each test point, adding 1 channel for each 100 MHz block above 100 MHz. Comcast of Arlington's analog bandwidth is 550 MHz.

### **Current FCC distortion specifications are as follows:**

The C/N measurement (76.605 (a)(7)(ii)) shall not be less than 43dB.

The CTB, CSO and X-mod measurements (76.605 (a)(8)(I)) shall not be less than 51dB.

The HUM measurement (76.605(a)(10)) shall not exceed 3.0%.

The Aural Carrier Difference (4.5 Difference)(76.605 (a)(2)) must be 4.5 MHz above the Visual Carrier, +/- 5KHz.

The In-Channel Frequency Response (In-Band Frequency Response) (76.605 (a)(6)) should not vary by more than +/- 2dB.



**Test Point #4**

**Comcast**  
 Kenwood St. & Fern St.  
 Alexandria, VA  
 FCC Distortion Measurements  
 EQUIPMENT USED:  
 H/P 8591C, S/N 3916A04384  
 Pre-Amplifier 85905A, S/N 6093-0551  
 TRILITHIC VF-4-88, S/N 9330002  
 Tektronix VITS200, S/N B020963  
 CONVERTER BOX SA 8511, S/N GF505BFDN

Date: 08/16/05      Time: 9:00 am      Temp: 82

CH.	FREQ. RSP 2dB Max	HUM% 3% Max	CSO 51dB Min	CTB 51dB Min	C/N 43dB Min	4.5 DIFF 5KHz Max
2	0.5	0.9	74.4	52.3	49.4	4.5000
95	0.6	1.1	69.6	63.7	46.9	4.5000
21	0.7	1.2	71	62	46.9	4.5000
8	0.7	1.1	66.2	61.9	45.6	4.5000
28	0.3	1	63.6	61.2	47.3	4.5000
32	0.6	1.1	66.8	61.7	47.4	4.5003
47	1.1	0.9	67.3	60.8	47.6	4.5001
58	0.5	0.9	67.6	60.5	49.1	4.5001
72	0.6	1.1	64.5	65.6	48.3	4.5001
Minimum values:			63.6	52.3	45.6	
Maximum values:	1.1	1.2				0.0003

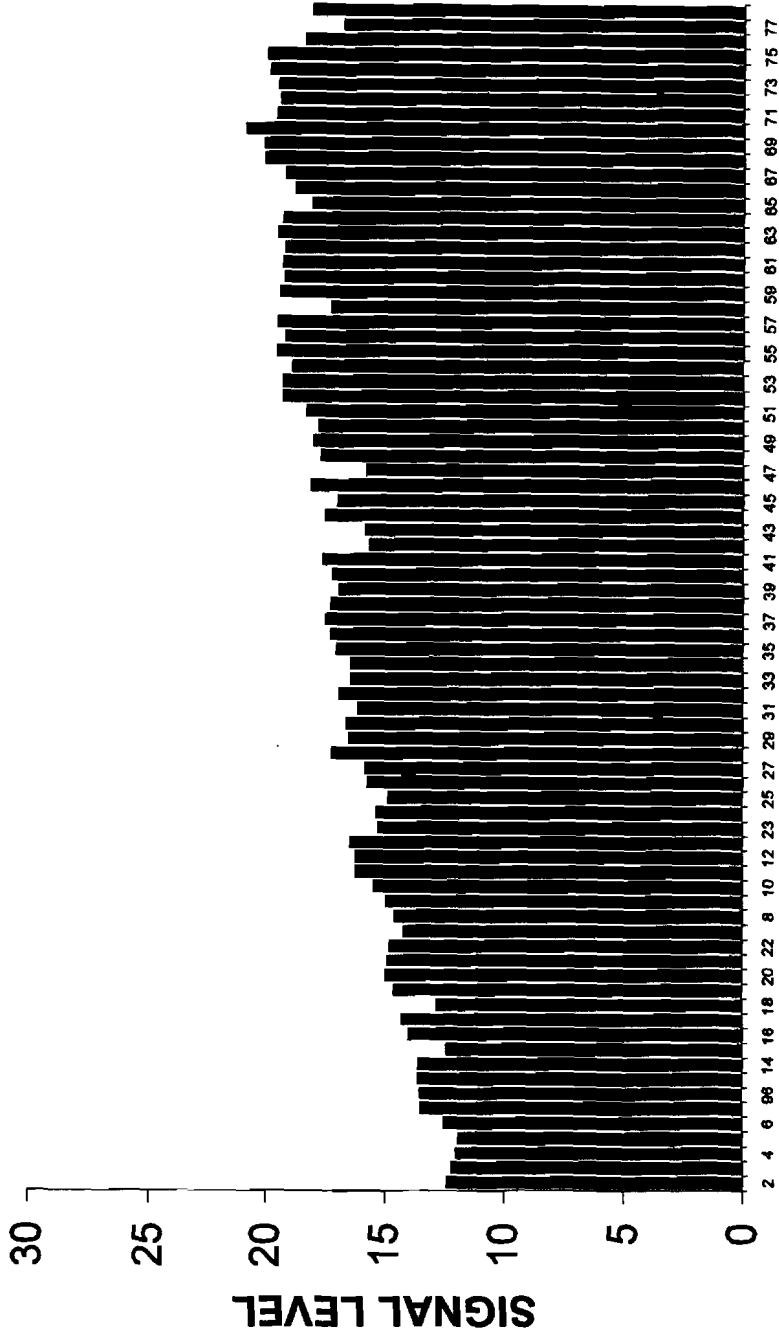


### Signal Level Variance

The ranges allowed by the FCC (76.605 (a)(4)(i,ii,iii)) are as follows:

4. Each level shall not vary by more than 8dB within any 6-month interval.
  - i. Adjacent channel level to be within 3dB of each other.
  - ii. Visual signal level on any other channel on a cable television system should be less than 10dB for systems of up to 300 MHz; for each additional 100 MHz, add 1dB to maximum difference level.
  - iii. A maximum level such that signal degradation due to overload in the subscriber's Receiver or terminal does not occur.

**TEST POINT #4**



**CHANNEL**

The maximum signal level is 21.2 dBmV

The maximum adjacent channel level difference is 2.8 dBmV  
The maximum level difference between the highest and lowest is 9.2 dBmV  
The maximum six month variance is 3.5 dBmV

**Test Point #4**



Kenwood St. & Fern St.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338:

Date: 08/27/05

Run	1				2				3				4				
	Time: 00:19:24				Time: 06:18:26				Time: 12:31:49				Time: 18:23:12				
Temp	86				86				84				88				
Chan	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	24 HR Vid Diff
2	12.4	13.0		-0.5	12.4	13.0		-0.9	12.4	12.9		-0.8	12.3	12.9		-1.0	0.1
3	12.2	15.0	-0.2	-1.5	12.1	14.9	-0.3	-2.0	12.5	15.3	0.1	-1.2	12.2	15.0	-0.1	-1.9	0.4
4	12.0	15.5	-0.2	-1.3	11.8	15.1	-0.3	-1.7	12.0	15.2	-0.5	-1.3	11.9	15.2	-0.3	-1.5	0.2
5	11.9	14.4	-0.1	-0.9	11.9	14.5	0.1	-1.1	12.0	14.5	0.0	-1.1	11.9	14.5	0.0	-1.3	0.1
6	12.5	15.3	0.6	-1.1	12.5	15.3	0.6	-1.4	12.7	15.4	0.7	-0.8	12.5	15.2	0.6	-1.1	0.2
95	13.5	14.0	1.0	0.6	13.4	13.9	0.9	0.0	13.7	14.0	1.0	0.4	13.8	14.3	1.3	0.5	0.4
96	13.5	14.3	0.0	0.6	13.7	14.4	0.3	0.4	13.8	14.3	0.1	0.9	13.6	14.3	-0.2	0.9	0.3
99	13.6	14.5	0.1	-0.2	13.6	14.5	-0.1	-0.3	13.9	14.7	0.1	0.5	13.6	14.5	0.0	-0.1	0.3
14	13.6	15.0	0.0	-0.7	13.6	15.0	0.0	-1.0	13.8	15.0	-0.1	-0.5	13.5	14.9	-0.1	-1.0	0.3
15	12.4	14.9	-1.2	-3.0	12.4	14.9	-1.2	-3.5	12.8	15.2	-1.0	-2.7	12.7	15.2	-0.8	-2.7	0.4
16	14.0	12.5	1.6	1.1	13.1	11.7	0.7	-1.1	14.0	12.4	1.2	0.4	13.7	12.2	1.0	-0.1	0.9
17	14.3	14.5	0.3	-1.1	14.1	14.3	1.0	-1.5	14.4	14.6	0.4	-0.7	14.2	14.2	0.5	-1.1	0.3
18	12.8	14.3	-1.5	-1.8	13.2	14.7	-0.9	-1.5	13.0	14.7	-1.4	-1.8	12.8	14.6	-1.4	-2.2	0.4
19	14.6	14.5	1.8	0.1	12.0	11.8	-1.2	-2.7	13.5	12.5	0.5	-0.9	13.4	12.6	0.6	-1.2	2.6
20	15.0	15.5	0.4	-1.0	14.1	15.7	2.1	-2.0	15.9	16.0	2.4	-0.3	15.4	15.7	2.0	-0.4	1.8
21	14.9	15.4	-0.1	-2.5	14.9	15.4	0.8	-2.8	15.5	15.7	-0.4	-1.8	15.2	15.6	-0.2	-2.2	0.6
22	14.8	14.5	-0.1	-1.3	14.9	14.6	0.0	-1.9	14.9	14.4	-0.6	-1.6	14.9	14.6	-0.3	-1.1	0.1
7	14.2	14.8	-0.6	-1.0	14.0	14.6	-0.9	-1.9	14.4	14.9	-0.5	-1.1	14.6	15.2	-0.3	-0.8	0.6
8	14.6	15.1	0.4	-1.3	14.6	15.0	0.6	-2.1	14.9	15.1	0.5	-1.8	14.8	15.2	0.2	-1.2	0.3
9	15.0	14.5	0.4	-0.6	15.1	14.7	0.5	-1.3	15.3	14.8	0.4	-0.4	15.1	14.8	0.3	-0.7	0.3
10	15.5	14.7	0.5	-0.5	15.6	14.9	0.5	-1.0	15.9	15.0	0.6	-0.4	15.6	14.8	0.5	-0.5	0.4
11	16.3	16.0	0.8	0.3	16.2	15.7	0.6	-0.4	16.3	15.7	0.4	0.1	16.2	15.7	0.6	0.2	0.1
12	16.3	15.5	0.0	-0.3	16.5	15.8	0.3	-0.2	16.6	15.7	0.3	-0.1	16.5	15.7	0.3	-0.2	0.3
13	16.5	15.1	0.2	0.2	16.3	15.0	-0.2	-0.3	16.6	15.0	0.0	0.1	16.5	15.0	0.0	0.0	0.3
23	15.3	14.7	-1.2	-1.0	15.0	14.2	-1.3	-1.7	15.4	14.6	-1.2	-0.7	15.2	14.4	-1.3	-1.2	0.4
24	15.4	14.9	0.1	-1.2	15.8	15.3	0.8	-1.9	15.6	14.7	0.2	-1.3	15.3	14.6	0.1	-1.7	0.5
25	14.9	14.8	-0.5	-1.6	14.7	14.7	-1.1	-2.1	15.0	14.8	-0.6	-1.7	14.8	14.8	-0.5	-1.8	0.3
26	15.8	14.2	0.9	-1.7	15.9	14.1	1.2	-2.0	16.2	14.2	1.2	-1.3	16.0	14.2	1.2	-1.5	0.4
27	15.9	14.1	0.1	-1.2	16.2	14.3	0.3	-1.2	16.2	14.3	0.0	-0.7	16.3	14.5	0.3	-0.9	0.4
28	17.3	15.5	1.4	-0.3	17.2	15.4	1.0	-0.5	17.3	15.4	1.1	0.2	17.1	15.3	0.8	-0.3	0.2
29	16.6	14.9	-0.7	-0.6	16.5	14.8	-0.7	-1.0	16.8	14.8	-0.5	-0.1	16.9	15.0	-0.2	-0.4	0.4
30	16.7	14.9	0.1	-0.3	16.6	14.8	0.1	-0.7	16.8	15.0	0.0	0.2	16.7	15.0	-0.2	-0.6	0.2
31	16.2	14.9	-0.5	-1.0	16.3	15.1	-0.3	-1.1	16.5	14.9	-0.3	-0.5	16.4	14.9	-0.3	-0.8	0.3
32	17.0	14.6	0.8	-0.6	17.0	14.7	0.7	-0.7	17.3	14.9	0.8	-0.4	17.3	15.0	0.9	-0.1	0.3



**Test Point #4**

**Comcast**

Kenwood St. & Fern St.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338; Date: 08/27/05

Run	1				2				3				4				
	Time: 00:19:24				Time: 06:18:26				Time: 12:31:49				Time: 18:23:12				
Temp	86				86				84				88				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
73	19.6	15.2	0.1	-0.6	19.5	15.1	0.0	-1.2	19.7	15.2	-0.1	-0.3	19.6	15.2	0.1	-0.6	0.2
74	20.0	14.9	0.4	0.2	20.0	14.8	0.5	0.3	20.2	14.8	0.5	0.2	20.1	14.9	0.5	0.3	0.2
75	20.1	15.9	0.1	-0.6	20.4	16.1	0.4	-1.6	20.4	16.0	0.2	-0.5	20.3	16.0	0.2	-0.3	0.3
76	18.5	14.8	-1.6	-0.7	18.5	14.7	-1.9	-1.1	18.5	14.6	-1.9	-0.7	18.4	14.6	-1.9	-0.9	0.1
77	16.9	15.0	-1.6	-2.2	16.7	14.9	-1.8	-2.6	17.0	14.9	-1.5	-1.9	18.4	14.9	0.0	-0.7	1.7
78	18.2	14.1	-2.0	-0.2	18.9	14.7	-1.2	-1.9	19.0	14.7	-1.3	-0.1	17.4	12.4	-2.8	-2.5	1.6
Min Value	11.9	12.5	-2.3	-3.1	11.8	11.7	-2.1	-3.5	12.0	12.4	-2.3	-2.7	11.9	12.2	-2.8	-2.7	0.1
Max Value	21.0	16.2	2.1	1.1	20.5	16.1	2.2	0.5	21.2	16.0	2.7	0.9	21.0	16.0	2.4	0.9	2.6

Notes:

- \*1 - Station off air - standby by carrier in use
- \*2 - New channel addition there is no 6 month reference



## **Distortion Measurements**

Comcast of Alexandria, VA performed distortion tests at 11 test points, as required by the FCC (76.601 (c)(1)), which states that at least 6 test points for the first 12,500 subscribers, adding 1 test point for each additional 12,500 subscribers. Comcast of Alexandria's subscriber count is 51,657 as of 07/01/05. All of Comcast's test points are distributed through the outer edges of the county at its farthest node locations, with the test points being at the end-of-line. Which meets the requirement that all geographic areas be represented and at least 1/3 of the test points being the most distant points in the system.

At each test point, 9 channels were tested for distortions as required by the FCC (76.601(c)(2)), which states that at least 4 channels must be tested at each test point, adding 1 channel for each 100 MHz block above 100 MHz. Comcast of Arlington's analog bandwidth is 550 MHz.

### **Current FCC distortion specifications are as follows:**

The C/N measurement (76.605 (a)(7)(ii)) shall not be less than 43dB.

The CTB, CSO and X-mod measurements (76.605 (a)(8)(I)) shall not be less than 51dB.

The HUM measurement (76.605(a)(10)) shall not exceed 3.0%.

The Aural Carrier Difference (4.5 Difference)(76.605 (a)(2)) must be 4.5 MHz above the Visual Carrier, +/- 5KHz.

The In-Channel Frequency Response (In-Band Frequency Response) (76.605 (a)(6)) should not vary by more than +/- 2dB.

**Test Point #5**

**Comcast**

1121 Allison St.  
Alexandria, VA

FCC Distortion Measurements  
EQUIPMENT USED:

H/P 8591C, S/N 3916A04384

Pre-Amplifier 85905A, S/N 6093-0551

TRILITHIC VF-4-88, S/N 9330002

Tektronix VITS200, S/N B020963

CONVERTER BOX SA 8511, S/N GF505BFDN

Date: 08/16/05

Time: 10:30 am

Temp: 78

CH.	FREQ. RSP 2dB Max	HUM% 3% Max	CSO 51dB Min	CTB 51dB Min	C/N 43dB Min	4.5 DIFF 5KHz Max
2	0.6	1.0	78.4	54	44.7	4.5000
95	0.8	1.8	68.7	65	45.5	4.5000
21	0.6	1.5	67.7	60.6	45.4	4.5001
8	0.6	1.7	62.3	62.2	45.6	4.5000
28	1	1.6	65.6	64.2	45.5	4.5001
32	0.7	1.7	64.9	61.3	45	4.5002
47	0.4	1.2	65.4	63.4	45.4	4.5001
58	0.1	1.4	65.6	63.8	45.8	4.5000
72	0.7	1.7	67.3	61.1	49.1	4.4999
			62.3	54	44.7	
1		1.8				0.0002

Minimum values:

Maximum values:



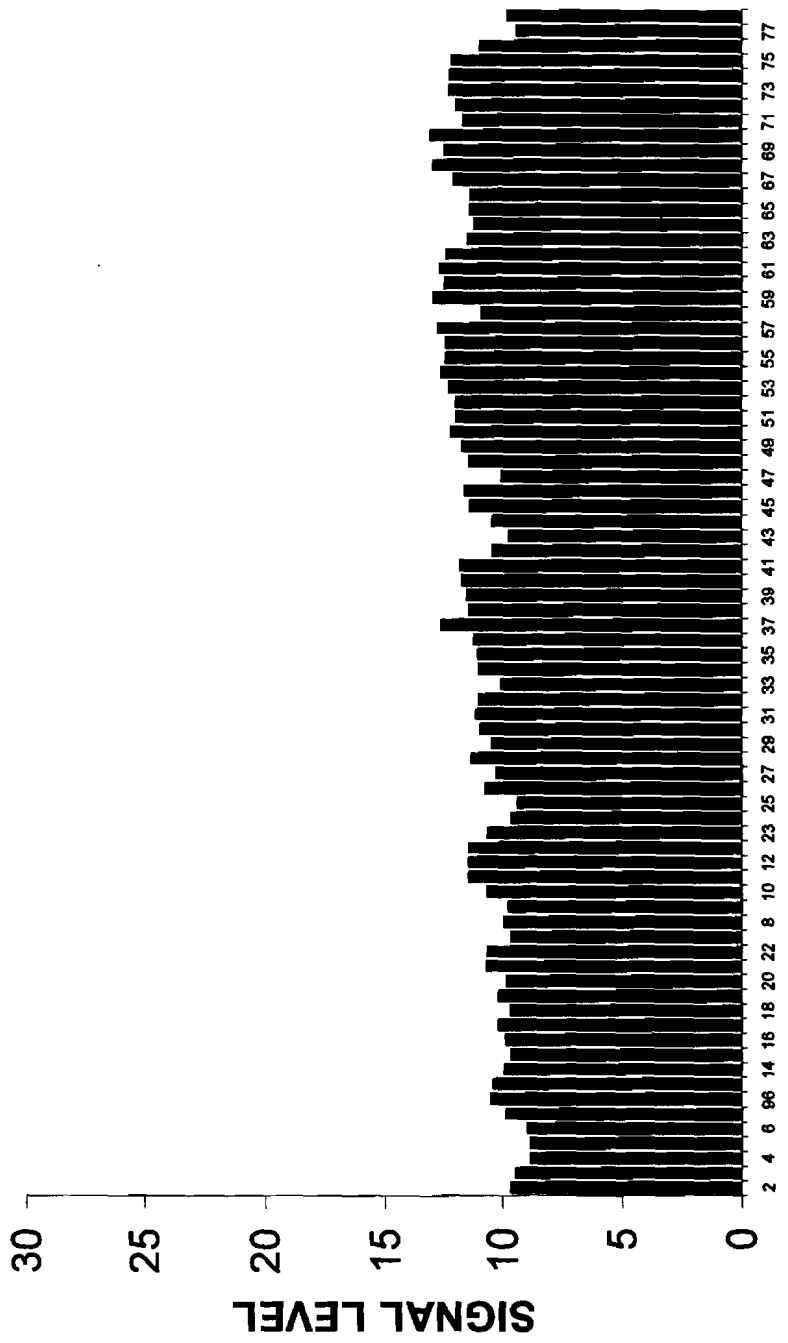


### Signal Level Variance

The ranges allowed by the FCC (76.605 (a)(4)(i,ii,iii)) are as follows:

4. Each level shall not vary by more than 8dB within any 6-month interval.
  - i. Adjacent channel level to be within 3dB of each other.
  - ii. Visual signal level on any other channel on a cable television system should be less than 10dB for systems of up to 300 MHz; for each additional 100 MHz, add 1dB to maximum difference level.
  - iii. A maximum level such that signal degradation due to overload in the subscriber's Receiver or terminal does not occur.

**TEST POINT #5**



**CHANNEL**

The maximum signal level is 16.4 dBmV

The maximum adjacent channel level difference is 2.7 dBmV  
The maximum level difference between the highest and lowest is 5.3 dBmV  
The maximum six month variance is 5.6 dBmV

**Test Point #5**



1121 Allison St.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338; Date: 08/27/05

Run	1				2				3				4				
	Time: 00:22:03				Time: 06:21:26				Time: 12:36:54				Time: 18:27:37				
Temp	86				86				96				88				
Chan	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	24 HR Vid Diff
2	9.7	13.0		-1.9	9.8	13.1		-2.1	9.7	12.9		-1.9	9.8	13.1		-2.0	0.1
3	9.5	15.6	-0.2	-3.4	9.5	15.6	-0.3	-3.3	9.5	15.5	-0.2	-3.2	9.4	15.4	-0.4	-3.0	0.1
4	8.9	15.3	-0.6	-2.6	8.8	15.3	-0.7	-2.9	9.0	15.3	-0.5	-2.3	8.9	15.3	-0.5	-2.7	0.2
5	8.9	14.8	0.0	-2.3	9.2	15.1	0.4	-2.4	9.2	15.0	0.2	-1.8	9.1	14.9	0.2	-2.3	0.3
6	9.0	14.9	0.1	-2.6	9.1	15.1	-0.1	-2.5	9.0	14.9	-0.2	-2.4	9.1	14.9	0.0	-2.6	0.1
95	9.9	13.8	0.9	-1.0	9.9	13.8	0.8	-1.5	10.2	14.0	1.2	-0.9	10.2	14.1	1.1	-1.2	0.3
96	10.5	14.8	0.6	-0.9	10.4	14.6	0.5	-0.8	10.6	14.8	0.4	-0.6	10.5	14.8	0.3	-1.0	0.2
99	10.4	15.1	-0.1	-1.4	10.4	15.1	0.0	-1.6	10.5	15.0	-0.1	-1.0	10.5	15.1	0.0	-1.4	0.1
14	10.0	14.7	-0.4	-2.4	10.2	14.9	-0.2	-2.2	10.2	14.8	-0.3	-1.9	10.3	15.0	-0.2	-2.0	0.3
15	9.7	15.3	-0.3	-4.5	9.6	15.2	-0.6	-4.6	9.6	15.1	-0.6	-4.1	9.9	15.4	-0.4	-4.0	0.3
16	9.9	12.3	0.2	-3.0	10.5	12.9	0.9	-2.7	10.3	12.5	0.7	-2.2	10.4	12.7	0.5	-2.6	0.6
17	10.2	14.2	0.3	-3.1	10.3	14.3	-0.2	-3.0	10.5	14.2	0.2	-2.4	10.4	14.4	0.0	-2.9	0.3
18	9.7	15.2	-0.5	-3.8	9.9	15.4	-0.4	-3.6	9.7	15.1	-0.8	-3.6	10.0	15.3	-0.4	-3.7	0.3
19	10.2	15.2	0.5	-3.4	8.1	12.9	-1.8	-5.6	10.3	15.1	0.6	-3.0	10.1	14.8	0.1	-3.5	2.2
20	9.9	14.2	-0.3	-3.7	9.8	14.1	1.7	-3.9	10.0	14.3	-0.3	-3.2	9.9	14.2	-0.2	-3.6	0.2
21	10.7	15.6	0.8	-3.5	10.6	15.5	0.8	-3.9	10.9	15.6	0.9	-3.2	10.8	15.5	0.9	-3.6	0.3
22	10.7	14.6	0.0	-3.1	10.8	14.8	0.2	-3.1	10.7	14.5	-0.2	-2.7	10.8	14.6	0.0	-3.1	0.1
7	9.7	14.5	-1.0	-3.0	9.8	14.6	-1.0	-3.0	10.0	14.6	-0.7	-2.2	10.0	14.6	-0.8	-2.6	0.3
8	10.0	16.1	0.3	-3.2	10.3	16.4	0.5	-3.3	10.4	16.2	0.4	-2.4	10.3	16.4	0.3	-3.3	0.4
9	9.8	14.7	-0.2	-2.8	9.6	14.5	-0.7	-3.0	10.0	15.0	-0.4	-2.2	9.7	14.6	-0.6	-3.2	0.4
10	10.7	14.6	0.9	-2.1	10.6	14.4	1.0	-1.9	10.6	14.3	0.6	-2.2	10.8	14.6	1.1	-1.5	0.2
11	11.5	15.8	0.8	-2.0	11.5	15.8	0.9	-2.0	11.6	15.7	1.0	-1.5	11.6	15.8	0.8	-1.8	0.1
12	11.5	15.4	0.0	-1.8	11.5	15.4	0.0	-2.1	11.8	15.5	0.2	-1.2	11.9	15.7	0.3	-1.5	0.4
13	11.5	15.2	0.0	-2.1	11.8	15.5	0.3	-1.8	11.6	15.1	-0.2	-1.8	11.8	15.3	-0.1	-1.8	0.3
23	10.7	15.5	-0.8	-2.3	10.6	15.4	-1.2	-3.0	10.9	15.5	-0.7	-2.3	10.8	15.6	-1.0	-2.9	0.3
24	9.7	14.3	-1.0	-3.5	10.4	15.0	-0.2	-2.8	10.3	14.7	-0.6	-2.4	10.0	14.5	-0.8	-3.2	0.7
25	9.4	14.9	-0.3	-3.5	9.4	14.8	-1.0	-4.0	9.6	14.9	-0.7	-3.4	9.3	14.7	-0.7	-3.9	0.3
26	10.8	14.8	1.4	-3.5	10.9	14.8	1.5	-3.3	11.0	14.7	1.4	-3.2	10.9	14.7	1.6	-3.4	0.2
27	10.3	14.0	-0.5	-3.1	10.3	13.9	-0.6	-2.9	10.4	14.0	-0.6	-2.4	10.3	14.0	-0.6	-3.4	0.1
28	11.4	15.5	1.1	-1.7	11.3	15.4	1.0	-2.2	11.3	15.2	0.9	-1.5	11.2	15.2	0.9	-2.4	0.2
29	10.5	14.3	-0.9	-2.4	10.6	14.3	-0.7	-2.8	10.7	14.4	-0.6	-1.9	10.7	14.4	-0.5	-2.6	0.2
30	11.0	14.5	0.5	-2.5	10.9	14.4	0.3	-3.0	11.0	14.4	0.3	-2.5	10.9	14.4	0.2	-2.9	0.1
31	11.2	15.5	0.2	-3.1	11.4	15.6	0.5	-2.9	11.5	15.6	0.5	-2.1	11.5	15.8	0.6	-2.5	0.3
32	11.1	14.4	-0.1	-2.4	10.9	14.1	-0.5	-2.9	11.4	14.6	-0.1	-1.8	11.3	14.5	-0.2	-2.5	0.5

### Test Point #5



1121 Allison St.

24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338:

Date: 08/27/05

Run	1				2				3				4				
	Time: 00:22:03				Time: 08:21:28				Time: 12:36:54				Time: 18:27:37				
Temp	86				86				96				88				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
33	10.1	14.1	-1.0	-2.3	10.3	14.2	-0.6	-2.5	10.6	14.3	-0.8	-1.6	10.3	14.0	-1.0	-2.3	0.5
34	11.1	15.6	1.0	-3.3	11.2	15.5	0.9	-3.4	11.2	15.4	0.6	-2.9	11.1	15.4	0.8	-3.4	0.1
35	11.1	14.5	0.0	-2.3	11.0	14.4	-0.2	-3.0	11.4	14.7	0.2	-1.8	11.2	14.6	0.1	-2.5	0.4
36	11.3	14.1	0.2	-2.4	11.2	14.0	0.2	-2.7	11.4	14.0	0.0	-2.1	11.5	14.2	0.3	-2.3	0.3
37	12.7	15.4	1.4	-1.7	12.6	15.3	1.4	-1.7	12.8	15.3	1.4	-1.3	12.7	15.4	1.2	-1.8	0.2
38	11.5	14.5	-1.2	-2.8	12.4	14.2	-0.2	-2.0	12.4	14.5	-0.4	-1.8	12.1	14.5	-0.6	-2.2	0.9
39	11.6	14.7	0.1	-2.6	11.7	14.7	-0.7	-2.7	11.8	14.7	-0.6	-2.1	11.6	14.6	-0.5	-2.9	0.2
40	11.8	15.2	0.2	-2.4	11.7	15.0	0.0	-2.9	12.1	15.4	0.3	-2.0	11.8	15.2	0.2	-2.6	0.4
41	11.9	14.3	0.1	-2.4	11.9	14.4	0.2	-2.7	11.9	14.0	-0.2	-2.3	12.0	14.2	0.2	-2.5	0.1
42	10.5	15.0	-1.4	-3.6	10.6	15.1	-1.3	-3.8	10.6	15.0	-1.3	-3.1	10.6	15.1	-1.4	-3.9	0.1
43	9.8	14.8	-0.7	-4.5	10.1	15.1	-0.5	-5.0	10.3	15.2	-0.3	-4.1	10.0	14.9	-0.6	-5.0	0.5
44	10.5	13.9	0.7	-3.4	10.6	14.0	0.5	-3.7	10.7	14.0	0.4	-3.1	10.6	14.0	0.6	-3.7	0.2
45	11.5	15.5	1.0	-2.5	11.4	15.4	0.8	-3.0	11.6	15.6	0.9	-2.4	11.7	15.7	1.1	-2.6	0.3
46	11.7	15.2	0.2	-2.1	11.7	15.1	0.3	-2.5	11.8	15.2	0.2	-1.8	11.8	15.2	0.1	-2.3	0.1
47	10.1	13.2	-1.6	-3.6	10.4	13.5	-1.3	-3.1	10.5	13.4	-1.3	-2.5	10.4	13.4	-1.4	-3.3	0.4
48	11.5	14.8	1.4	-3.8	11.7	15.0	1.3	-3.8	11.6	14.6	1.1	-3.2	11.8	15.0	1.4	-3.6	0.3
49	11.8	13.9	0.3	-2.4	11.9	14.0	0.2	-2.2	12.1	14.2	0.5	-1.6	12.0	14.1	0.2	-2.4	0.3
50	12.3	15.0	0.5	-1.7	12.4	15.2	0.5	-1.7	12.4	15.1	0.3	-1.3	12.4	15.2	0.4	-1.5	0.1
51	12.1	15.3	-0.2	-1.6	12.2	15.5	-0.2	-2.1	12.3	15.4	-0.1	-1.6	12.3	15.6	-0.1	-1.8	0.2
52	12.1	14.8	0.0	-1.4	12.1	14.8	-0.1	-1.9	12.2	14.7	-0.1	-1.4	12.0	14.7	-0.3	-1.5	0.2
53	12.4	14.3	0.3	-1.1	12.4	14.3	0.3	-1.2	12.6	14.3	0.4	-0.6	12.3	14.2	0.3	-1.5	0.3
54	12.7	15.0	0.3	-1.5	12.8	15.0	0.4	-1.5	13.1	15.1	0.5	-0.9	12.6	14.8	0.3	-1.7	0.5
55	12.5	14.7	-0.2	-1.3	12.6	14.7	-0.2	-1.5	12.8	14.9	-0.3	-1.0	12.6	14.7	0.0	-1.3	0.3
56	12.5	14.5	0.0	-1.3	12.6	14.7	0.0	-1.2	12.8	14.8	0.0	-1.0	12.6	14.6	0.0	-1.4	0.3
57	12.9	14.3	0.4	-1.1	13.2	14.6	0.6	-1.2	13.3	14.7	0.5	-0.6	13.2	14.7	0.6	-0.9	0.4
58	11.0	14.5	-1.9	-3.3	10.9	14.3	-2.3	-3.7	11.1	14.5	-2.2	-2.8	11.1	14.5	-2.1	-3.6	0.2
59	13.1	15.2	2.1	-1.8	13.0	15.1	2.1	-2.2	13.4	15.5	2.3	-1.0	13.2	15.3	2.1	-1.8	0.4
60	12.6	14.7	-0.5	-1.4	12.5	14.6	-0.5	-2.3	12.6	14.5	-0.8	-1.0	12.6	14.7	-0.6	-1.8	0.1
61	12.8	14.6	0.2	-1.4	12.6	14.5	0.1	-2.1	13.1	14.7	0.5	-0.6	12.8	14.7	0.2	-1.4	0.5
62	12.5	15.5	-0.3	-2.2	12.6	15.4	0.0	-2.8	12.5	15.3	-0.6	-1.8	12.5	15.5	-0.3	-2.8	0.1
63	11.6	14.6	-0.9	*2	11.9	14.8	-0.7	*2	11.8	14.6	-0.7	*2	11.6	14.5	-0.9	*2	0.3
64	11.3	14.7	-1.3	-2.8	11.3	14.8	-1.2	-2.9	11.5	14.7	-1.1	-2.0	11.3	14.7	-1.3	-2.8	0.2
65	11.5	14.9	0.2	-3.1	11.4	14.8	0.1	-3.5	11.7	14.9	0.2	-2.5	11.5	15.0	0.2	-3.3	0.3
66	11.5	14.2	0.0	-2.7	11.6	14.3	0.2	-2.8	11.9	14.4	0.2	-1.8	11.5	14.1	0.0	-2.8	0.4
67	12.2	14.0	0.7	-2.1	12.4	14.3	0.8	-2.0	12.9	14.4	1.0	-0.8	12.4	14.3	0.9	-1.9	0.7
68	13.1	14.9	0.9	-1.2	13.1	14.8	0.7	-1.4	13.5	15.1	0.6	-0.1	13.1	14.9	0.7	-1.3	0.4
69	12.6	13.9	-0.5	-1.5	12.6	13.9	-0.5	-1.5	12.9	14.1	-0.6	-0.8	12.6	13.9	-0.5	-1.4	0.3
70	13.2	15.1	0.6	-0.8	13.4	15.3	0.8	-1.0	13.5	15.4	0.6	-0.4	13.4	15.4	0.8	-1.1	0.3
71	11.8	14.6	1.9	-3.0	11.9	14.6	0.9	-3.0	12.0	14.8	0.9	-2.1	12.1	14.9	0.9	-2.6	0.3
72	12.1	15.4	0.3	-2.4	11.9	14.6	0.0	-2.8	12.4	14.2	0.4	-1.5	12.4	14.2	0.3	-2.3	0.5

### Test Point #5

**Comcast**

1121 Allison St.

24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338:

Date: 08/27/05

Run 1					2				3				4				
Time: 00:22:03					Time: 06:21:26				Time: 12:36:54				Time: 18:27:37				
Temp 86					86				96				88				
Chan	Vid	Aud	Adjct	6 Mth	Vid	Aud	Adjct	6 Mth	Vid	Aud	Adjct	6 Mth	Vid	Aud	Adjct	6 Mth	24 HR
73	12.4	15.2	0.3	-2.3	12.5	15.3	0.6	-2.5	12.4	15.1	0.0	-1.7	12.6	15.4	0.2	-2.2	0.2
74	12.4	14.9	0.0	-1.5	12.5	14.8	0.0	-1.6	12.8	15.0	0.4	-0.6	12.7	15.0	0.1	-1.2	0.4
75	12.3	15.4	-0.1	-2.0	12.4	15.5	-0.1	-1.4	12.6	15.4	-0.2	-0.3	12.4	15.5	-0.3	-3.4	0.3
76	11.1	15.2	-1.2	-2.1	11.1	15.2	-1.3	-2.2	11.3	15.2	-1.3	-1.2	11.0	14.9	-1.4	-2.5	0.3
77	9.5	14.9	-1.6	-3.2	9.6	15.0	-1.5	-3.6	9.8	15.0	-1.5	-2.5	9.5	14.8	-1.5	-3.3	0.3
78	9.9	12.4	-2.7	-3.0	11.0	14.4	-1.6	-3.2	11.1	14.2	-1.8	-2.0	11.2	14.6	-1.4	-2.6	1.3
Min Value	8.9	12.3	-2.7	-4.5	8.1	12.9	-2.3	-5.6	9.0	12.5	-2.2	-4.1	8.9	12.7	-2.1	-5.0	0.1
Max Value	13.2	16.1	2.1	-0.8	13.4	16.4	2.1	-1.0	13.5	16.2	2.3	-0.1	13.4	16.4	2.1	-0.9	2.2

Notes:

\*1 - Station off air - standby by carrier in use

\*2 - New channel addition there is no 6 month reference



## Distortion Measurements

Comcast of Alexandria, VA performed distortion tests at 11 test points, as required by the FCC (76.601 (c)(1)), which states that at least 6 test points for the first 12,500 subscribers, adding 1 test point for each additional 12,500 subscribers. Comcast of Alexandria's subscriber count is 51,657 as of 07/01/05. All of Comcast's test points are distributed through the outer edges of the county at its farthest node locations, with the test points being at the end-of-line. Which meets the requirement that all geographic areas be represented and at least 1/3 of the test points being the most distant points in the system.

At each test point, 9 channels were tested for distortions as required by the FCC (76.601(c)(2)), which states that at least 4 channels must be tested at each test point, adding 1 channel for each 100 MHz block above 100 MHz. Comcast of Arlington's analog bandwidth is 550 MHz.

### **Current FCC distortion specifications are as follows:**

The C/N measurement (76.605 (a)(7)(ii)) shall not be less than 43dB.

The CTB, CSO and X-mod measurements (76.605 (a)(8)(I)) shall not be less than 51dB.

The HUM measurement (76.605(a)(10)) shall not exceed 3.0%.

The Aural Carrier Difference (4.5 Difference)(76.605 (a)(2)) must be 4.5 MHz above the Visual Carrier, +/- 5KHz.

The In-Channel Frequency Response (In-Band Frequency Response) (76.605 (a)(6)) should not vary by more than +/- 2dB.

## Test Point #6

**Comcast**

901 N. Kemper St.  
Alexandria, VA

FCC Distortion Measurements

EQUIPMENT USED:

H/P 8591C, S/N 3916A04384

Pre-Amplifier 85905A, S/N 6093-0551

TRILITHIC VF-4-88, S/N 9330002

Tektronix VITS200, S/N B020963

CONVERTER BOX SA 8511, S/N GF505BFDN

Date: 08/16/05

Time: 12:00 pm

Temp: 82

CH.	FREQ. RSP 2dB Max	HUM% 3% Max	CSO 51dB Min	CTB 51dB Min	C/N 43dB Min	4.5 DIFF 5KHz Max
2	0.7	1.1	67.0	64	48.9	4.5000
95	0.7	0.9	72.2	59.3	49.5	4.5000
21	0.8	0.9	67.4	62.6	48.8	4.5000
8	0.5	0.9	66.2	58.7	48.5	4.5000
28	0.7	0.9	70.4	59.2	49.1	4.5000
32	0.3	0.8	73.5	58	47.3	4.5004
47	0.6	0.9	64.6	58.2	49	4.5000
58	0.4	1.1	68.5	56.5	49.4	4.5000
72	0.8	0.8	66.2	59.6	50.2	4.5001
Minimum values:			64.6	56.5	47.3	
Maximum values:	0.8	1.1				0.0004



## Distortion Measurements

Comcast of Alexandria, VA performed distortion tests at 11 test points, as required by the FCC (76.601 (c)(1)), which states that at least 6 test points for the first 12,500 subscribers, adding 1 test point for each additional 12,500 subscribers. Comcast of Alexandria's subscriber count is 51,657 as of 07/01/05. All of Comcast's test points are distributed through the outer edges of the county at its farthest node locations, with the test points being at the end-of-line. Which meets the requirement that all geographic areas be represented and at least 1/3 of the test points being the most distant points in the system.

At each test point, 9 channels were tested for distortions as required by the FCC (76.601(c)(2)), which states at least 4 channels must be tested at each test point, adding 1 channel for each 100 MHz block above 100 MHz. Comcast of Arlington's analog bandwidth is 550 MHz.

### **Current FCC distortion specifications are as follows:**

The C/N measurement (76.605 (a)(7)(ii)) shall not be less than 43dB.

The CTB, CSO and X-mod measurements (76.605 (a)(8)(I)) shall not be less than 51dB.

The HUM measurement (76.605(a)(10)) shall not exceed 3.0%.

The Aural Carrier Difference (4.5 Difference)(76.605 (a)(2)) must be 4.5 MHz above the Visual Carrier, +/- 5KHz.

The In-Channel Frequency Response (In-Band Frequency Response) (76.605 (a)(6)) should not vary by more than +/- 2dB.



### Test Point #6

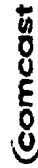


901 N. Kemper St.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338; Date: 08/27/05

Run	1				2				3				4				
	Time: 00:08:14				Time: 06:08:38				Time: 12:08:18				Time: 18:07:11				
Temp	86				86				87				84				
Chan	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	24 HR Vid Diff
2	10.7	13.1		-2.3	10.6	13.2		-3.0	7.2	13.1		-6.0	7.3	13.1		-6.3	3.5
3	10.2	15.0	-0.5	-3.4	10.0	14.8	-0.6	-3.9	6.9	15.0	-0.3	-6.8	6.9	14.9	-0.4	-7.1	3.3
4	9.8	15.3	-0.4	-3.0	9.8	15.2	-0.2	-3.2	6.4	14.9	-0.5	-6.4	6.8	15.1	-0.1	-6.3	3.4
5	10.0	14.8	0.2	-2.3	10.1	14.9	0.3	-2.4	7.7	14.7	1.3	-4.6	7.7	14.5	0.9	-5.1	2.4
6	10.3	15.6	0.3	-2.6	10.0	15.3	-0.1	-2.9	8.3	15.5	0.6	-4.5	8.0	15.2	0.3	-4.8	2.3
95	11.1	14.1	0.8	-1.3	11.1	14.1	1.1	-1.7	9.3	14.2	1.0	-3.2	9.3	14.3	1.3	-3.5	1.8
96	11.3	14.5	0.2	-0.6	11.3	14.5	0.2	-0.6	9.4	14.2	0.1	-2.4	9.4	14.2	0.1	-2.9	1.9
99	11.0	14.7	-0.3	-1.2	11.0	14.7	-0.3	-1.2	10.0	14.7	0.6	-2.2	10.1	14.9	0.7	-2.4	1.0
14	10.9	15.3	-0.1	-2.1	10.9	15.4	-0.1	-2.6	9.9	15.3	-0.1	-3.1	9.8	15.2	-0.3	-3.6	1.1
15	9.9	15.0	-1.0	-3.8	10.0	15.0	-0.9	-3.4	9.1	14.7	-0.8	-4.6	9.0	14.6	-0.8	-5.2	1.0
16	10.7	12.3	0.8	-2.1	10.9	12.5	0.9	-2.0	7.7	9.4	-1.4	-5.2	10.1	11.8	1.1	-3.2	3.2
17	11.3	14.8	0.6	-2.7	11.2	14.7	0.3	-2.8	10.0	14.3	2.3	-3.7	11.2	14.5	1.1	-3.1	1.3
18	10.1	14.7	-1.2	-3.8	10.1	14.8	-1.1	-4.0	9.8	14.8	-0.2	-3.8	9.9	14.8	-1.3	-4.1	0.3
19	10.6	14.8	0.5	-3.2	8.3	12.6	-1.8	-5.5	10.0	14.3	0.2	-3.6	10.0	14.2	0.1	-4.1	2.3
20	10.4	15.0	-0.2	-3.8	10.1	14.7	1.8	-4.1	10.4	14.5	0.4	-3.6	10.4	14.5	0.4	-4.1	0.3
21	10.8	15.0	0.4	-3.4	10.6	14.9	0.5	-3.8	11.3	14.8	0.9	-2.8	11.2	14.7	0.8	-3.6	0.7
22	11.2	14.5	0.4	-2.9	11.3	14.6	0.7	-2.7	11.8	14.6	0.5	-2.1	11.8	14.6	0.6	-2.5	0.6
7	10.9	15.5	-0.3	-2.9	10.8	15.5	-0.5	-2.9	11.2	15.3	-0.6	-2.7	11.1	15.2	-0.7	-3.3	0.4
8	10.3	15.4	-0.6	-3.4	10.3	15.4	-0.5	-3.7	10.8	15.1	-0.4	-2.8	10.7	15.0	-0.4	-3.7	0.5
9	10.6	14.7	0.3	-2.6	10.6	14.9	0.3	-2.7	11.2	14.3	0.4	-2.0	11.4	14.6	0.7	-2.4	0.8
10	11.5	14.8	0.9	-2.4	11.4	14.7	0.8	-2.8	12.5	14.5	1.3	-1.5	12.6	14.7	1.2	-2.0	1.2
11	12.0	15.6	0.5	-2.2	11.9	15.5	0.5	-2.3	13.2	15.9	0.7	-1.2	13.0	15.7	0.4	-1.5	1.3
12	11.9	15.8	-0.1	-2.4	11.9	15.9	0.0	-2.7	12.8	15.7	-0.4	-1.5	12.9	15.8	-0.1	-1.8	1.0
13	11.8	15.2	-0.1	-2.4	11.8	15.1	-0.1	-2.7	12.9	15.0	0.1	-1.4	12.8	14.9	-0.1	-2.1	1.1
23	10.8	14.3	-1.0	-3.2	10.8	14.4	-1.0	-3.6	12.0	13.8	-0.9	-2.0	12.2	14.0	-0.6	-2.5	1.4
24	11.2	14.9	0.4	-3.1	11.6	15.3	0.8	-2.7	12.7	14.7	0.7	-1.6	12.6	14.7	0.4	-2.1	1.5
25	9.4	14.4	-1.8	-4.8	10.0	14.9	-1.6	-4.6	11.5	15.0	-1.2	-2.8	11.5	15.0	-1.1	-3.1	2.1
26	10.9	14.6	1.5	-3.7	11.0	14.7	1.0	-4.0	12.2	14.4	0.7	-2.4	12.3	14.5	0.8	-2.8	1.4
27	11.0	14.5	0.1	-3.2	10.9	14.3	-0.1	-3.7	12.4	14.0	0.2	-1.9	12.4	13.9	0.1	-2.6	1.5
28	12.0	14.9	1.0	-2.4	12.1	15.0	1.2	-2.5	14.1	15.0	1.7	-0.1	13.9	14.8	1.5	-1.2	2.1
29	11.6	14.6	-0.4	-2.3	11.5	14.6	-0.6	-2.9	13.6	14.9	-0.5	-0.6	13.7	14.9	-0.2	-1.0	2.2
30	11.5	14.9	-0.1	-2.9	11.7	15.1	0.2	-2.9	13.3	15.0	-0.3	-1.3	13.5	15.3	-0.2	-1.4	2.0
31	11.1	14.9	-0.4	-3.2	11.0	14.7	-0.7	-3.5	12.7	14.7	-0.6	-1.8	12.5	14.5	-1.0	-2.5	1.7
32	11.6	14.4	0.5	-2.7	11.6	14.4	0.6	-3.0	13.6	14.1	0.9	-0.9	13.9	14.4	1.4	-1.2	2.3

**Test Point #6**



901 N. Kemper St.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338: Date: 08/27/05

Run	1							2							3							4																						
	Vid	Aud	Adjctnl	6 Mth	Vid	Aud	Adjctnl	6 Mth	Vid	Aud	Adjctnl	6 Mth	Vid	Aud	Adjctnl	6 Mth	Vid	Aud	Adjctnl	6 Mth	Vid	Aud	Adjctnl	6 Mth	Vid	Aud	Adjctnl	6 Mth	24 HR															
Temp	86							86							87							84																						
Time	00:08:14							06:08:38							12:08:18							18:07:11																						
Chan	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72				
Vid	11.6	11.9	12.0	11.5	12.3	12.3	12.7	12.0	12.3	10.7	11.5	12.4	11.3	12.2	11.0	12.8	13.2	12.3	12.9	14.0	14.0	13.1	13.8	14.2	14.8	12.8	13.4	13.0	14.2	14.0	14.5	14.7	15.1	15.2	14.8	14.7	15.5	16.0	15.1	15.2				
Aud	14.8	15.0	15.0	14.3	14.2	15.1	14.7	15.0	14.7	14.1	15.2	14.1	14.6	14.1	13.0	14.6	15.4	14.3	14.0	15.3	14.6	14.6	14.6	14.9	14.8	16.0	14.6	13.8	14.6	14.4	14.7	15.2	14.7	14.7	15.2	14.8	14.7	15.5	14.9	15.1	14.7	15.2		
Adjctnl	0.0	0.3	0.1	-0.5	0.8	0.0	0.4	-0.7	0.3	-1.5	0.4	0.4	-1.1	0.6	-1.2	1.8	0.4	0.6	1.1	0.6	-1.2	-1.2	0.7	0.4	-2.0	0.6	-0.4	1.2	0.7	0.9	0.5	0.2	0.7	0.7	0.3	0.2	0.5	0.5	0.5	0.7	0.1	0.1		
6 Mth	-2.4	-3.5	-2.7	-3.4	-2.4	-3.7	-3.3	-3.5	-3.6	-4.3	-5.2	-4.1	-3.1	-4.8	-4.7	-3.8	-3.3	-3.3	-3.1	-2.8	-3.0	-3.0	-2.3	-2.4	-2.2	-4.2	-3.2	-3.3	-2.7	-3.3	*2	0.9	-3.1	-3.3	-3.0	-2.9	-2.3	-2.7	-2.1	-2.1	-2.9	-2.8		
Vid	11.6	11.8	12.1	11.5	12.1	12.2	12.7	12.0	12.3	10.7	11.5	12.4	11.3	12.2	11.0	12.8	13.2	12.3	12.9	14.0	14.0	13.1	13.8	14.2	14.8	12.8	13.4	13.0	14.2	14.0	14.5	14.7	15.1	15.2	14.8	14.7	15.5	16.0	15.1	15.2				
Aud	14.8	14.9	15.1	14.4	14.1	14.2	14.7	15.0	14.6	14.1	15.2	14.1	14.6	14.1	13.0	14.6	15.4	14.3	14.0	15.3	14.6	14.6	14.9	14.8	16.0	14.6	13.8	14.6	14.4	14.7	15.2	14.7	14.7	15.2	14.8	14.7	15.5	14.9	15.1	14.7	15.2			
Adjctnl	0.0	0.2	0.3	-0.6	0.6	0.1	0.5	-0.7	0.3	-1.6	0.8	0.3	-0.9	0.1	-0.9	1.7	0.3	0.3	0.7	0.2	-0.6	-0.6	0.4	0.4	-2.1	0.2	-0.4	0.8	0.5	0.9	0.5	0.1	0.7	0.7	0.3	0.2	0.5	0.5	0.5	0.7	0.1	0.1		
6 Mth	-2.8	-3.6	-3.1	-3.3	-3.1	-3.7	-3.4	-3.6	-4.1	-4.6	-5.0	-3.9	-3.4	-4.9	-4.5	-3.3	-3.2	-3.7	-3.3	-2.8	-2.8	-2.8	-2.3	-2.8	-2.2	-4.4	-3.3	-3.4	-2.6	-3.2	*2	1.1	-3.0	-3.6	-3.4	-3.0	-2.7	-2.1	-2.1	-2.9	-2.8			
Vid	13.7	14.2	14.0	13.2	14.4	14.5	15.4	14.4	14.6	13.3	14.3	14.9	15.8	15.8	14.7	15.2	15.2	15.7	15.7	16.0	16.0	16.0	16.4	17.0	17.8	16.0	16.2	16.3	16.6	17.6	17.7	17.8	17.0	17.4	17.8	18.6	18.7	18.4	19.3	18.4	18.5	18.4	18.5	
Aud	14.4	15.1	15.1	13.7	14.4	14.5	15.1	15.3	14.6	13.8	15.3	14.4	15.3	13.9	14.4	15.2	14.5	15.6	15.6	16.0	16.0	16.4	16.4	17.0	17.8	16.2	16.2	16.3	16.6	17.6	17.7	17.8	17.0	17.4	17.8	18.6	18.7	18.4	19.3	18.4	18.5	18.4	18.5	
Adjctnl	0.1	0.5	-0.2	-0.8	1.2	0.1	0.9	-1.0	0.2	-1.3	1.0	0.4	-1.3	-0.2	1.5	0.0	-0.6	0.5	0.5	0.2	-0.6	-0.6	0.3	0.3	-1.8	0.2	0.1	0.1	1.3	0.1	0.7	0.7	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.8	
6 Mth	-0.1	-0.8	-0.9	-1.4	-0.3	-1.3	-0.5	-0.9	0.2	-1.9	-2.2	-1.5	-0.8	-1.2	-1.1	-1.1	-1.1	-1.2	-1.2	-1.4	-1.4	-1.3	-1.3	-1.3	-1.3	-0.8	-0.8	-0.3	0.2	1.1	0.8	0.3	0.3	0.1	0.1	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.8	
Vid	13.7	14.1	14.1	13.2	14.7	14.5	15.3	14.4	14.6	13.3	14.3	14.9	15.8	15.8	14.7	15.2	15.2	15.7	15.7	16.0	16.0	16.4	17.0	17.8	16.0	16.2	16.3	16.6	17.6	17.7	17.8	17.0	17.4	17.8	18.6	18.7	18.4	19.3	18.4	18.5	18.4	18.5		
Aud	14.4	15.1	15.1	13.7	14.4	14.5	15.1	15.3	14.6	13.8	15.3	14.4	15.3	13.9	14.4	15.2	14.5	15.6	15.6	16.0	16.0	16.4	16.4	17.0	17.8	16.2	16.2	16.3	16.6	17.6	17.7	17.8	17.0	17.4	17.8	18.6	18.7	18.4	19.3	18.4	18.5	18.4	18.5	
Adjctnl	-0.2	0.4	0.0	-0.9	1.5	0.0	0.8	-1.1	0.4	-1.4	1.0	0.4	-1.3	-0.4	1.2	0.0	-0.8	0.4	0.5	0.3	-0.3	-0.3	0.3	0.3	-2.0	0.4	0.2	0.2	1.6	0.1	0.1	0.1	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.8	0.8	
6 Mth	-0.7	-1.9	-1.6	-1.8	-1.5	-1.8	-1.2	-1.1	-1.5	-1.4	-2.5	-1.6	-1.2	-2.2	-1.6	-2.2	-1.5	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-1.2	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3
Vid	13.7	14.1	14.1	13.2	14.7	14.5	15.3	14.4	14.6	13.3	14.3	14.9	15.8	15.8	14.7	15.2	15.2	15.7	15.7	16.0	16.0	16.4	17.0	17.8	16.0	16.2	16.3	16.6	17.6	17.7	17.8	17.0	17.4	17.8	18.6	18.7	18.4	19.3	18.4	18.5	18.4	18.5		
Aud	14.4	15.1	15.1	13.7	14.4	14.5	15.1	15.3	14.6	13.8	15.3	14.4	15.3	13.9	14.4	15.2	14.5	15.6	15.6	16.0	16.0	16.4	16.4	17.0	17.8	16.2	16.2	16.3	16.6	17.6	17.7	17.8	17.0	17.4	17.8	18.6	18.7	18.4	19.3	18.4	18.5	18.4	18.5	
Adjctnl	-0.2	0.4	0.0	-0.9	1.5	0.0	0.8	-1.1	0.4	-1.4	1.0	0.4	-1.3	-0.4	1.2	0.0	-0.8	0.4	0.5	0.3	-0.3	-0.3	0.3	0.3	-2.0	0.4	0.2	0.2	1.6	0.1	0.1	0.1	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.8
6 Mth	-0.7	-1.9	-1.6	-1.8	-1.5	-1.8	-1.2	-1.1	-1.5	-1.4	-2.5	-1.6	-1.2	-2.2	-1.6	-2.2	-1.5	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-1.2	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3
Vid	13.7	14.1	14.1	13.2	14.7	14.5	15.3	14.4	14.6	13.3	14.3	14.9	15.8	15.8	14.7	15.2	15.2	15.7	15.7	16.0	16.0	16.4	17.0	17.8	16.0	16.2	16.3	16.6	17.6	17.7	17.8	17.0	17.4	17.8	18.6	18.7	18.4	19.3	18.4	18.5	18.4	18.5		
Aud	14.4	15.1	15.1	13.7	14.4	14.5	15.1	15.3	14.6	13.8	15.3	14.4	15.3	13.9	14.4	15.2	14.5	15.6	15.6	16.0	16.0	16.4	16.4	17.0	17.8	16.2	16.2	16.3	16.6	17.6	17.7	17.8	17.0	17.4	17.8	18.6	18.7	18.4	19.3	18.4	18.5	18.4	18.5	
Adjctnl	-0.2	0.4	0.0	-0.9	1.5	0.0	0.8	-1.1	0.4	-1.4	1.0	0.4	-1.3	-0.4	1.2	0.0	-0.8	0.4	0.5	0.3	-0.3	-0.3	0.3	0.3	-2.0	0.4	0.2	0.2	1.6	0.1	0.1	0.1	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.8
6 Mth	-0.7	-1.9	-1.6	-1.8	-1.5	-1.8	-1.2	-1.1	-1.5	-1.4	-2.5	-1.6	-1.2	-2.2	-1.6	-2.2	-1.5	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-1.2	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3
Vid	13.7	14.1	14.1	13.2	14.7	14.5	15.3	14.4	14.6	13.3	14.3	14.9	15.8	15.8	14.7	15.2	15.2	15.7	15.7	16.0	16.0	16.4	17.0	17.8	16.0	16.2	16.3	16.6	17.6	17.7	17.8	17.0	17.4	17.8	18.6	18.7	18.4	19.3	18.4	18.5	18.4	18.5		
Aud	14.4	15.1	15.1	13.7	14.4	14.5	15.1	15.3	14.6	13.8	15.3	14.4	15.3	13.9	14.4	15.2	14.5	15.6	15.6	16.0	16.0	16.4	16.4	17.0	17.8	16.2	16.2	16.3	16.6	17.6	17.7	17.8	17.0	17.4	17.8	18.6	18.7	18.4	19.3	18.4	18.5	18.4	18.5	
Adjctnl	-0.2	0.4	0.0	-0.9	1.5	0.0	0.8	-1.1	0.4	-1.4	1.0	0.4	-1.3	-0.4	1.2	0.0	-0.8	0.4	0.5	0.3	-0.3	-0.3	0.3	0.3	-2.0	0.4	0.2	0.2	1.6	0.1	0.1	0.1	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.8
6 Mth	-0.7	-1.9	-1.6	-1.8	-1.5	-1.8	-1.2	-1.1	-1.5	-1.4	-2.5	-1.6	-1.2	-2.2	-1.6	-2.2	-1.5	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-1.2	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3
Vid	13.7	14.1	14.1	13.2	14.7	14.5	15.3	14.4	14.6	13.3	14.3	14.9	15.8	15.8	14.7	15.2	15.2	15.7	15.7	16.0	16.0	16.4	17.0	17.8	16.0	16.2	16.3	16.6	17.6	17.7	17.8	17.0	17.4	17.8	18.6	18.7	18.4	19.3	18.4	18.5	18.4	18.5		
Aud	14.4	15.1	15.1	13.7	14.4	14.5	15.1	15.3	14.6	13.8	15.3	14.4	15.3	13.9	14.4	15.2	14.5	15.6	15.6	16.0	16.0	16.4	16.4	17.0	17.8	16.2	16.2	16.3	16.6	17.6	17.7	17.8	17.0	17.4	17.8	18.6	18.7	18.4	19.3	18.4	18.5	18.4	18.5	

**Test Point #6**



901 N. Kemper St.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338; Date: 08/27/05

Run	1				2				3				4				
	Time: 00:08:14				Time: 06:08:38				Time: 12:08:18				Time: 18:07:11				
Temp	86				86				87				84				
Chan	Vid	Aud	Adicnt	6 Mth	Vid	Aud	Adicnt	6 Mth	Vid	Aud	Adicnt	6 Mth	Vid	Aud	Adicnt	6 Mth	24 HR
73	15.2	15.0	0.0	-2.4	15.2	15.0	-0.2	-2.5	18.4	14.7	-0.1	1.1	18.5	14.8	0.0	0.6	3.3
74	15.4	14.7	0.2	-1.6	15.6	14.9	0.4	-2.0	18.9	14.7	0.5	1.8	18.9	14.8	0.4	1.1	3.5
75	15.8	15.7	0.4	-2.7	15.7	15.5	0.1	-3.7	19.3	15.4	0.4	1.1	19.5	15.7	0.6	-0.6	3.8
76	14.5	14.7	-1.3	-2.9	14.4	14.7	-1.3	-3.2	18.1	14.7	-1.2	1.1	18.0	14.6	-1.5	0.1	3.7
77	13.0	15.0	-1.5	-4.1	13.1	15.1	-1.3	-4.4	16.7	15.0	-1.4	-0.3	17.0	15.4	-1.0	-0.6	4.0
78	14.4	14.2	-1.1	-2.3	14.2	13.9	-1.4	-4.6	17.8	14.1	-0.6	0.3	17.4	13.7	-1.3	-1.5	3.6
Min Value	9.4	12.3	-2.0	-5.2	8.3	12.5	-2.1	-5.5	6.4	9.4	-1.8	-6.8	6.8	11.8	-2.0	-7.1	0.3
Max Value	16.0	16.0	1.8	-0.6	15.9	15.9	1.8	-1.2	19.3	16.3	2.3	1.8	19.5	16.2	1.7	1.1	4.0

Notes:

\*1 - Station off air - standby by carrier in use

\*2 - New channel addition there is no 6 month reference



## Distortion Measurements

Comcast of Alexandria, VA performed distortion tests at 11 test points, as required by the FCC (76.601 (c)(1)), which states that at least 6 test points for the first 12,500 subscribers, adding 1 test point for each additional 12,500 subscribers. Comcast of Alexandria's subscriber count is 51,657 as of 07/01/05. All of Comcast's test points are distributed through the outer edges of the county at its farthest node locations, with the test points being at the end-of-line. Which meets the requirement that all geographic areas be represented and at least 1/3 of the test points being the most distant points in the system.

At each test point, 9 channels were tested for distortions as required by the FCC (76.601(c)(2)), which states at least 4 channels must be tested at each test point, adding 1 channel for each 100 MHz block above 100 MHz. Comcast of Arlington's analog bandwidth is 550 MHz.

### **Current FCC distortion specifications are as follows:**

The C/N measurement (76.605 (a)(7)(ii)) shall not be less than 43dB.

The CTB, CSO and X-mod measurements (76.605 (a)(8)(I)) shall not be less than 51dB.

The HUM measurement (76.605(a)(10)) shall not exceed 3.0%.

The Aural Carrier Difference (4.5 Difference)(76.605 (a)(2)) must be 4.5 MHz above the Visual Carrier, +/- 5KHz.

The In-Channel Frequency Response (In-Band Frequency Response) (76.605 (a)(6)) should not vary by more than +/- 2dB.

**Test Point #7**

**Comcast**  
 528 Bellvue Pl.  
 Alexandria, VA  
 FCC Distortion Measurements  
 EQUIPMENT USED:  
 H/P 8591C, S/N 3916A04384  
 Pre-Amplifier 85905A, S/N 6093-0551  
 TRILITHIC VF-4-88, S/N 9330002  
 Tektronix VITS200, S/N B020963  
 CONVERTER BOX SA 8511, S/N GF505BFDN

Date: 08/16/05      Time: 2:15 pm      Temp: 85

CH.	FREQ. RSP 2dB Max	HUM% 3% Max	CSO 51dB Min	CTB 51dB Min	C/N 43dB Min	4.5 DIFF 5KHz Max
2	0.5	1.6	66.4	62.4	47.7	4.5000
95	0.9	1.4	67.4	63.2	49.7	4.5000
21	0.7	1.2	64.7	65.5	48.7	4.5001
8	0.6	1.3	71.1	64.4	49.3	4.5000
28	0.6	1	69.1	64.9	49.2	4.5000
32	0.9	1.1	70.8	65.3	49.7	4.5003
47	0.7	1.1	74.6	64.2	48.6	4.5000
58	0.6	1.2	68.1	64	49.2	4.5000
72	0.9	1.0	65.2	63.9	48.7	4.4999
Minimum values:			64.7	62.4	47.7	
Maximum values:	0.9	1.6				0.0003

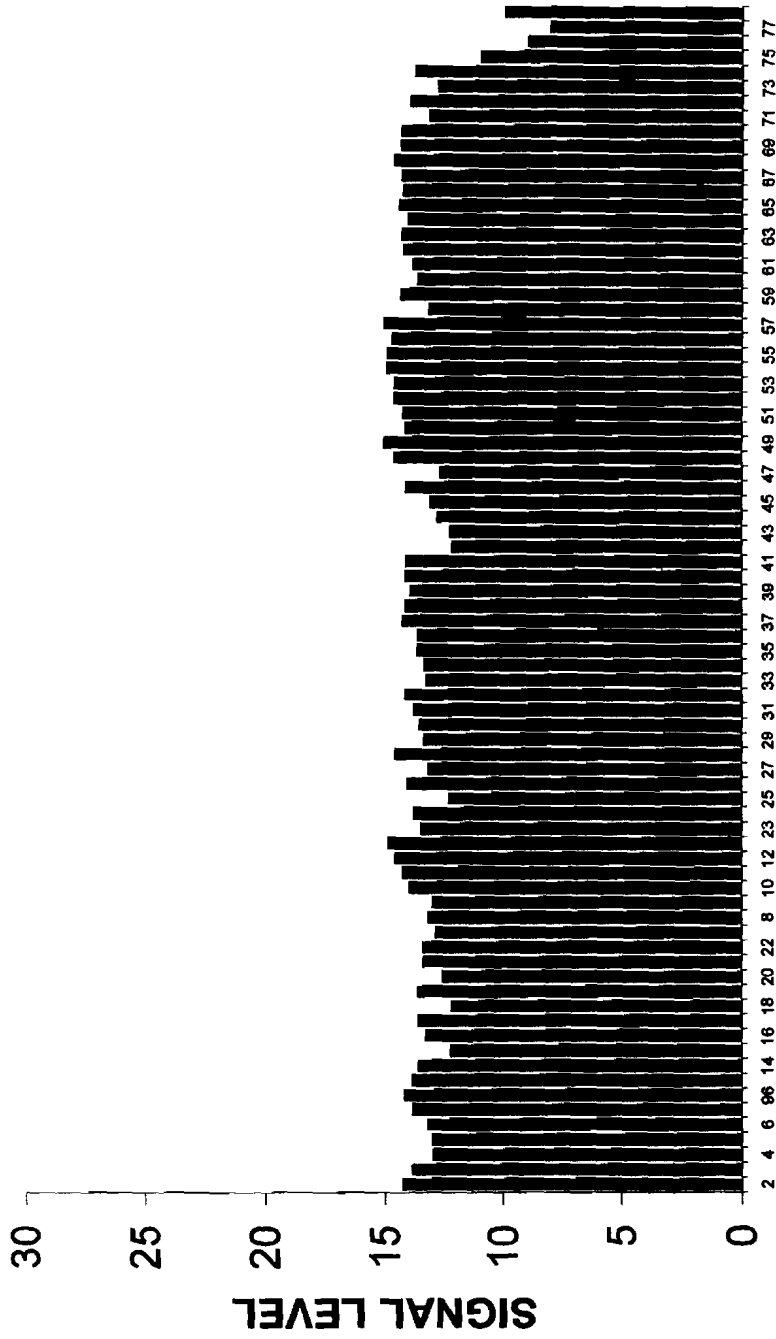


### Signal Level Variance

The ranges allowed by the FCC (76.605 (a)(4)(i,ii,iii)) are as follows:

4. Each level shall not vary by more than 8dB within any 6-month interval.
  - i. Adjacent channel level to be within 3dB of each other.
  - ii. Visual signal level on any other channel on a cable television system should be less than 10dB for systems of up to 300 MHz; for each additional 100 MHz, add 1dB to maximum difference level.
  - iii. A maximum level such that signal degradation due to overload in the subscriber's Receiver or terminal does not occur.

**TEST POINT #7**



**CHANNEL**

The maximum signal level is 16.8 dBmV

The maximum adjacent channel level difference is 2.9 dBmV  
The maximum level difference between the highest and lowest is 7.6 dBmV  
The maximum six month variance is 7.1 dBmV

### Test Point #7



528 Bellvue Pl.

24 Hour Level Variation

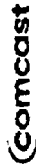
Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338:

Date: 08/27/05

Run	1				2				3				4				
	Time: 00:37:57				Time: 06:40:06				Time: 13:08:27				Time: 18:48:38				
Temp	86				86				87				84				
Chan	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	24 HR Vid Diff
2	14.3	13.2		-0.6	14.3	13.3		-0.4	14.4	13.4		-0.5	14.2	13.1		-0.7	0.2
3	13.9	15.3	-0.4	-1.5	13.9	15.3	-0.4	-1.2	13.8	15.3	-0.6	-1.4	13.9	15.4	-0.3	-1.7	0.1
4	13.0	15.1	-0.9	-1.2	13.0	15.2	-0.9	-1.2	13.1	15.3	-0.7	-1.0	12.9	15.2	-1.0	-1.5	0.2
5	13.0	14.7	0.0	-0.8	12.9	14.7	-0.1	-1.0	13.0	14.7	-0.1	-0.8	12.9	14.6	0.0	-1.2	0.1
6	13.2	15.3	0.2	-1.2	13.3	15.4	0.4	-1.0	13.2	15.2	0.2	-0.8	12.9	15.1	0.0	-1.5	0.4
95	13.9	13.8	0.7	0.4	13.9	13.8	0.6	0.4	14.1	13.9	0.9	0.5	14.3	14.2	1.4	0.4	0.4
96	14.2	14.7	0.3	0.8	14.5	15.0	0.6	1.0	14.4	14.8	0.3	0.6	14.3	14.9	0.0	0.4	0.3
99	13.9	15.2	-0.3	0.1	13.8	15.1	-0.7	0.1	14.0	15.3	-0.4	0.3	13.8	15.1	-0.5	-0.1	0.2
14	13.6	15.0	-0.3	-0.7	13.5	14.8	-0.3	-1.0	13.8	15.1	-0.2	-0.6	13.5	14.9	-0.3	-1.1	0.3
15	12.2	14.9	-1.4	-3.3	12.5	15.1	-1.0	-3.1	12.6	15.2	-1.2	-2.5	12.6	15.3	-0.9	-2.9	0.4
16	13.3	12.5	1.1	-0.9	11.2	10.3	-1.3	-3.0	13.5	12.6	0.9	-0.5	10.6	9.7	-2.0	-3.8	2.9
17	13.6	14.7	0.3	-1.0	13.6	14.7	2.4	-0.9	13.7	14.8	0.2	-0.8	12.0	14.7	1.4	-2.7	1.7
18	12.2	14.4	-1.4	-2.0	12.3	14.4	-1.3	-2.0	12.4	14.4	-1.3	-1.7	12.3	14.4	0.3	-2.2	0.2
19	13.6	15.3	1.4	-1.2	11.0	12.7	-1.3	-4.0	13.1	14.7	0.7	-1.8	12.9	14.5	0.6	-1.7	2.6
20	12.6	14.3	-1.0	-2.1	12.5	14.4	1.5	-2.1	12.6	14.3	-0.5	-1.8	12.5	14.2	-0.4	-2.3	0.1
21	13.4	15.4	0.8	-1.9	13.3	15.2	0.8	-1.8	13.3	15.2	0.7	-1.7	13.2	15.2	0.7	-2.3	0.2
22	13.4	14.3	0.0	-0.9	13.4	14.3	0.1	-1.1	13.4	14.3	0.1	-1.0	13.5	14.5	0.3	-1.2	0.1
7	12.9	14.7	-0.5	-1.2	12.9	14.7	-0.5	-1.3	12.9	14.6	-0.5	-1.2	12.9	14.7	-0.6	-1.4	0.0
8	13.2	15.8	0.3	-1.5	13.3	16.0	0.4	-1.5	13.1	15.8	0.2	-1.6	13.3	16.0	0.4	-1.8	0.2
9	13.0	14.6	-0.2	-1.0	13.0	14.5	-0.3	-1.0	13.0	14.6	-0.1	-0.8	13.1	14.7	-0.2	-1.2	0.1
10	14.0	14.6	1.0	-0.8	14.0	14.7	1.0	-0.8	14.3	14.9	1.3	-0.3	14.1	14.8	1.0	-1.2	0.3
11	14.3	15.1	0.3	0.0	14.3	15.1	0.3	-0.3	14.5	15.2	0.2	0.2	14.5	15.4	0.4	-0.4	0.2
12	14.6	15.4	0.3	0.0	14.8	15.6	0.5	-0.1	14.9	15.6	0.4	0.4	14.9	15.7	0.4	-0.2	0.3
13	14.9	15.4	0.3	-0.1	14.9	15.4	0.1	0.0	14.9	15.3	0.0	-0.1	15.0	15.4	0.1	0.0	0.1
23	13.5	14.6	-1.4	-1.2	13.5	14.5	-1.4	-1.1	13.6	14.6	-1.3	-1.2	13.5	14.6	-1.5	-1.7	0.1
24	13.8	15.1	0.3	-1.1	13.9	15.2	0.4	-0.7	13.5	14.7	-0.1	-1.7	13.6	14.9	0.1	-1.6	0.4
25	12.3	14.5	-1.5	-2.3	12.3	14.5	-1.6	-2.3	12.4	14.5	-1.1	-2.2	12.0	13.3	-1.6	-2.7	0.4
26	14.1	15.0	1.8	-1.2	14.0	14.9	1.7	-1.4	14.0	14.8	1.6	-1.5	14.0	14.8	2.0	-1.7	0.1
27	13.2	13.8	-0.9	-1.3	13.3	13.9	-0.7	-1.2	13.4	13.9	-0.6	-1.3	13.3	13.9	-0.7	-1.9	0.2
28	14.6	15.6	1.4	-0.2	14.6	15.5	1.3	-0.1	14.7	15.6	1.3	-0.1	14.6	15.6	1.3	-0.5	0.1
29	13.4	14.4	-1.2	-0.9	13.6	14.6	-1.0	-0.6	13.5	14.5	-1.2	-0.9	13.4	14.4	-1.2	-1.1	0.2
30	13.6	14.5	0.2	-0.5	13.4	14.3	-0.2	-0.7	13.5	14.3	0.0	-0.8	13.5	14.4	0.1	-1.2	0.2
31	13.8	15.0	0.2	-0.9	13.8	15.2	0.4	-1.0	13.8	15.0	0.3	-1.2	13.8	15.0	0.3	-1.6	0.0
32	14.2	14.7	0.4	-0.4	13.9	14.4	0.1	-0.7	14.3	14.8	0.5	-0.5	14.2	14.7	0.4	-0.9	0.4



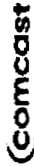
**Test Point #7**



528 Bellvue Pl.  
24 Hour Level Variation  
Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338: Date: 08/27/05

Run	1				2				3				4				
Temp	86				86				87				84				
Chan	Vid	Aud	Adjicnt	6 Mth	Vid	Aud	Adjicnt	6 Mth	Vid	Aud	Adjicnt	6 Mth	Vid	Aud	Adjicnt	6 Mth	24 HR
33	13.3	14.8	-0.9	-0.3	13.0	14.6	-0.9	-0.7	13.2	14.6	-1.1	-0.9	13.0	14.5	-1.2	-1.1	0.3
34	13.4	15.0	0.1	-1.3	13.2	14.9	0.2	-1.7	13.5	15.0	0.3	0.4	13.4	15.1	0.4	-1.9	0.3
35	13.7	14.2	0.3	-0.6	13.6	14.2	0.4	-0.9	13.9	14.3	0.4	-0.6	13.6	14.2	0.2	-1.1	0.3
36	13.7	14.4	0.0	-1.1	13.8	14.5	0.2	-0.8	14.0	14.5	0.1	-0.8	14.0	14.8	0.4	-1.2	0.3
37	14.3	15.1	0.6	-0.5	14.4	15.2	0.6	-0.4	14.5	15.1	0.5	-0.2	14.3	15.1	0.3	-0.8	0.2
38	14.2	15.0	-0.1	-0.7	14.2	15.3	-0.2	-0.8	14.1	14.8	-0.4	-0.9	14.1	15.4	-0.2	-1.3	0.1
39	14.0	14.6	-0.2	-1.5	14.1	14.7	-0.1	-1.2	13.9	14.5	-0.2	-1.4	13.9	14.4	-0.2	-1.6	0.2
40	14.2	15.2	0.2	-1.1	14.2	15.2	0.1	-1.0	14.1	15.1	0.2	-1.0	14.3	15.1	0.4	-1.1	0.2
41	14.2	14.7	0.0	-1.0	14.1	14.7	-0.1	-1.2	14.2	14.7	0.1	-1.0	14.8	15.8	0.5	-0.7	0.7
42	12.2	14.9	-2.0	-2.0	12.0	14.7	-2.1	-2.3	11.9	14.5	-2.3	-2.3	11.9	14.7	-2.9	-2.4	0.3
43	12.3	15.5	0.1	-3.2	12.3	15.4	0.3	-3.1	12.3	15.3	0.4	-3.0	12.1	15.2	0.2	-3.7	0.2
44	12.8	14.2	0.5	-2.3	12.6	14.1	0.3	-2.5	12.8	14.2	0.5	-2.4	12.8	14.2	0.7	-2.6	0.2
45	13.1	14.7	0.3	-1.3	13.1	14.8	0.5	-1.3	13.3	15.0	0.5	-1.2	13.2	14.9	0.4	-1.8	0.2
46	14.2	15.2	1.1	-1.6	14.3	15.3	1.2	-1.5	14.3	15.2	1.0	-1.5	14.1	15.1	0.9	-1.9	0.2
47	12.7	13.1	-1.5	-2.1	12.9	13.3	-1.4	-2.1	12.6	12.9	-1.7	-2.1	12.8	13.2	-1.3	-2.4	0.3
48	14.7	15.0	2.0	-1.9	14.6	14.9	1.7	-1.7	14.6	14.9	2.0	-1.6	14.6	15.0	1.8	-2.3	0.1
49	15.1	15.2	0.4	0.1	14.7	14.8	0.1	-0.5	15.0	15.1	0.4	-0.5	14.9	15.0	0.3	-0.5	0.4
50	14.2	14.6	-0.9	-0.8	14.4	14.9	-0.3	-0.8	14.5	15.0	-0.5	-0.7	14.4	15.0	-0.5	-1.1	0.3
51	14.3	15.3	0.1	-0.9	14.4	15.3	0.0	-0.7	14.3	15.2	-0.2	-0.8	14.5	15.4	0.1	-1.1	0.2
52	14.7	15.3	0.4	-0.3	14.6	15.2	0.2	-0.7	14.6	15.1	0.3	-0.7	14.6	15.2	0.1	-0.9	0.1
53	14.7	14.7	0.0	-0.1	14.8	14.8	0.2	-0.1	14.9	14.8	0.3	0.0	14.9	15.0	0.3	-0.2	0.2
54	15.0	15.5	0.3	-0.1	14.7	15.2	-0.1	-0.6	15.0	15.4	0.1	-0.4	14.9	15.5	0.0	-0.9	0.3
55	15.0	15.4	0.0	-0.3	15.1	15.4	0.4	-0.4	15.0	15.3	0.0	-0.4	14.9	15.3	0.0	-0.8	0.2
56	14.8	14.8	-0.2	-0.3	14.7	14.8	-0.4	-0.2	14.8	14.8	-0.2	-0.4	14.7	14.8	-0.2	-0.9	0.1
57	15.1	14.4	0.3	-0.6	15.1	14.5	0.4	-0.7	15.4	14.8	0.6	-0.1	15.2	14.6	0.5	-1.0	0.3
58	13.2	15.3	-1.9	-2.8	13.2	15.3	-1.9	-2.6	13.3	15.4	-2.1	-2.4	13.3	15.4	-1.9	-2.8	0.1
59	14.4	15.2	1.2	-1.7	14.4	15.3	1.2	-1.3	14.4	15.1	1.1	-1.5	14.7	15.6	1.4	-1.6	0.3
60	13.7	15.1	-0.7	-1.4	13.6	14.9	-0.8	-1.8	13.7	14.8	-0.7	-1.8	13.7	14.9	-1.0	-2.1	0.1
61	13.9	14.5	0.2	-0.7	14.0	14.6	0.4	-1.2	13.9	14.5	0.2	-1.0	13.5	14.2	-0.2	-1.7	0.5
62	14.3	15.3	0.4	-1.4	14.4	15.5	0.4	-1.4	14.2	15.3	0.3	-1.4	14.2	15.4	0.7	-1.8	0.2
63	14.4	14.8	0.1	*2	14.4	14.8	0.0	*2	14.2	14.6	0.0	*2	14.2	14.8	0.0	*2	0.2
64	14.1	14.6	0.4	-1.8	14.2	14.8	0.6	-1.6	14.2	14.8	0.5	-1.5	14.1	14.7	0.4	-2.0	0.1
65	14.5	15.1	0.4	-2.2	14.5	15.2	0.3	-2.1	14.4	15.1	0.2	-2.1	14.4	15.3	0.3	-2.5	0.1
66	14.3	14.7	-0.2	-2.1	14.2	14.7	-0.3	-2.3	14.2	14.6	-0.2	-2.1	14.2	14.8	-0.2	-2.4	0.1
67	14.4	14.4	0.1	-1.9	14.2	14.1	0.0	-1.9	14.4	14.5	0.2	-1.8	14.4	14.5	0.2	-2.1	0.2
68	14.7	14.7	0.3	-1.4	14.8	14.9	0.6	-1.4	14.7	14.9	0.3	-1.3	14.8	15.0	0.4	-1.3	0.1
69	14.4	14.1	-0.3	-1.7	14.5	14.2	-0.3	-2.3	14.4	14.2	-0.3	-2.1	14.2	14.2	-0.6	-2.5	0.3
70	14.4	15.0	0.0	0.0	14.6	15.3	0.1	0.2	14.8	15.5	0.4	0.0	14.6	15.3	0.4	-0.4	0.4
71	13.2	15.1	-1.2	0.0	13.0	15.2	-1.6	0.0	13.2	15.2	-1.6	-0.5	13.2	15.2	-1.4	-0.6	0.2
72	14.0	15.6	0.8	0.0	14.1	15.1	1.1	0.0	13.9	15.4	0.7	0.0	13.7	15.4	0.5	0.0	0.4

**Test Point #7**



528 Bellvue Pl.

24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338: Date: 08/27/05

Run	1	2	3	4													
Time:	00:37:57	08:40:06	13:08:27	18:48:38													
Temp	86	86	87	84													
Chan	Vid	Aud	Adjcent	6 Mth	Vid	Aud	Adjcent	6 Mth	Vid	Aud	Adjcent	6 Mth	24 HR				
73	12.8	14.6	-1.2	-1.8	12.7	14.5	-1.4	-1.7	12.8	14.6	-1.1	-0.4	12.9	14.6	-0.8	-1.0	0.2
74	13.8	16.6	1.0	-0.7	13.8	16.6	1.1	-0.9	13.6	16.2	0.8	-0.9	14.1	16.4	1.2	-0.9	0.5
75	11.0	14.7	-2.8	-5.7	11.7	16.7	-2.1	-2.6	11.8	16.8	-1.8	-3.7	12.2	16.3	-1.9	-5.2	1.2
76	9.0	15.2	-2.0	-6.2	8.8	14.9	-2.9	-6.2	8.9	15.3	-2.9	-6.2	9.8	16.1	-2.4	-5.6	1.0
77	8.1	10.9	-0.9	-6.4	8.3	11.1	-0.5	-6.4	7.8	10.8	-1.1	-7.1	9.0	12.6	-0.8	-6.5	1.2
78	10.0	13.7	1.9	-5.5	10.5	13.9	2.2	-4.9	10.6	13.8	2.8	-5.5	11.8	11.0	2.8	-4.1	1.8
Min Value	8.1	10.9	-2.8	-6.4	8.3	10.3	-2.9	-6.4	7.8	10.8	-2.9	-7.1	9.0	9.7	-2.9	-6.5	0.0
Max Value	15.1	16.6	2.0	0.8	15.1	16.7	2.4	0.2	15.4	16.8	2.8	0.6	15.2	16.4	2.8	0.4	2.9

Notes:

\*1 - Station off air - standby by carrier in use

\*2 - New channel addition there is no 6 month reference



## **Distortion Measurements**

Comcast of Alexandria, VA performed distortion tests at 11 test points, as required by the FCC (76.601 (c)(1)), which states that at least 6 test points for the first 12,500 subscribers, adding 1 test point for each additional 12,500 subscribers. Comcast of Alexandria's subscriber count is 51,657 as of 07/01/05. All of Comcast's test points are distributed through the outer edges of the county at its farthest node locations, with the test points being at the end-of-line. Which meets the requirement that all geographic areas be represented and at least 1/3 of the test points being the most distant points in the system.

At each test point, 9 channels were tested for distortions as required by the FCC (76.601(c)(2)), which states at least 4 channels must be tested at each test point, adding 1 channel for each 100 MHz block above 100 MHz. Comcast of Arlington's analog bandwidth is 550 MHz.

### **Current FCC distortion specifications are as follows:**

The C/N measurement (76.605 (a)(7)(ii)) shall not be less than 43dB.

The CTB, CSO and X-mod measurements (76.605 (a)(8)(I)) shall not be less than 51dB.

The HUM measurement (76.605(a)(10)) shall not exceed 3.0%.

The Aural Carrier Difference (4.5 Difference)(76.605 (a)(2)) must be 4.5 MHz above the Visual Carrier, +/- 5KHz.

The In-Channel Frequency Response (In-Band Frequency Response) (76.605 (a)(6)) should not vary by more than +/- 2dB.

## Test Point #8

**Comcast**

5109 Gardner Dr.  
Alexandria, VA

FCC Distortion Measurements  
EQUIPMENT USED:

H/P 8591C, S/N 3916A04384

Pre-Amplifier 85905A, S/N 6093-0551

TRILITHIC VF-4-88, S/N 9330002

Tektronix VTS200, S/N B020963

CONVERTER BOX SA 8511, S/N GF505BFDN

Date: 08/17/05

Time: 9:15 am

Temp: 80

CH.	FREQ. RSP 2dB Max	HUM% 3% Max	CSO 51dB Min	CTB 51dB Min	C/N 43dB Min	4.5 DIFF 5KHz Max
2	0.4	0.4	67.5	67.2	51.8	4.4998
95	0.5	0.6	71.7	69.4	49.4	4.5001
21	0.5	0.5	73.6	63.5	48.3	4.5000
8	0.3	0.7	68.5	66.8	50.5	4.5000
28	1.3	0.3	76.3	68.1	48.8	4.5000
32	0.3	0.5	74.6	66.3	50.1	4.4999
47	0.2	0.5	69.1	68.9	49.6	4.5000
58	0.2	0.6	70.5	63.7	50.3	4.5001
72	0.4	0.5	67.1	65.4	50.1	4.5000
Minimum values:			67.1	63.5	48.3	
Maximum values:		1.3				-0.0002

Minimum values:

Maximum values:

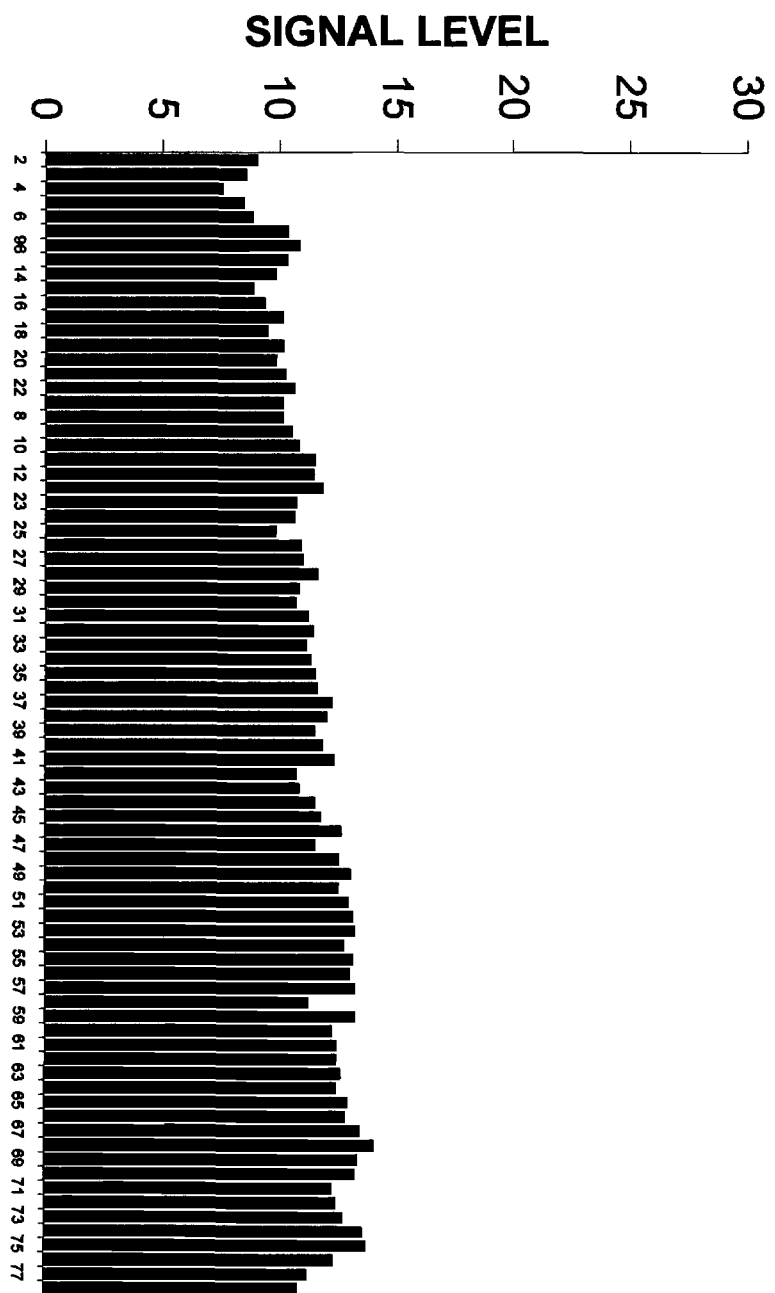


### Signal Level Variance

The ranges allowed by the FCC (76.605 (a)(4)(i,ii,iii)) are as follows:

4. Each level shall not vary by more than 8dB within any 6-month interval.
  - i. Adjacent channel level to be within 3dB of each other.
  - ii. Visual signal level on any other channel on a cable television system should be less than 10dB for systems of up to 300 MHz; for each additional 100 MHz, add 1dB to maximum difference level.
  - iii. A maximum level such that signal degradation due to overload in the subscriber's Receiver or terminal does not occur.

TEST POINT #8



CHANNEL

The maximum signal level is 14.1 dBmV

The maximum adjacent channel level difference is 2.9 dBmV  
The maximum level difference between the highest and lowest is 6.5 dBmV  
The maximum six month variance is 5.7 dBmV

**Test Point #8**



5109 Gardner Dr.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338; Date: 08/27/05

Run	1				2				3				4				
	Time: 01:00:36				Time: 06:58:38				Time: 13:38:04				Time: 19:10:08				
Temp	86				86				87				84				
Chan	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	24 HR Vid Diff
2	9.1	13.4		4.6	9.1	13.3		4.4	8.8	13.2		3.9	8.9	13.4		4.3	0.3
3	8.6	15.2	-0.5	3.4	8.4	15.0	-0.7	3.1	8.5	15.5	-0.3	3.0	8.4	15.3	-0.5	2.9	0.2
4	7.6	15.0	-1.0	3.5	7.7	15.1	-0.7	3.7	7.5	15.3	-1.0	2.8	7.2	14.9	-1.2	2.7	0.5
5	8.5	14.5	0.9	4.0	8.3	14.4	0.6	3.6	8.2	14.4	0.7	3.6	8.1	14.4	0.9	2.9	0.4
6	8.9	15.0	0.4	4.0	8.8	14.9	0.5	3.6	8.6	14.8	0.4	2.9	8.7	15.0	0.6	3.4	0.3
95	10.4	14.0	1.5	5.3	10.4	14.1	1.6	5.0	10.3	14.1	1.7	4.6	10.2	14.0	1.5	5.1	0.2
96	10.9	14.8	0.5	5.7	10.9	14.8	0.5	5.3	10.6	14.8	0.3	5.1	10.8	15.0	0.6	5.0	0.3
99	10.4	15.3	-0.5	5.2	10.2	15.1	-0.7	4.8	10.1	15.1	-0.5	4.4	10.1	15.3	-0.7	4.4	0.3
14	9.9	15.2	-0.5	3.4	9.8	15.1	-0.4	3.4	9.7	15.1	-0.4	3.0	9.6	15.1	-0.5	3.4	0.3
15	8.9	15.1	-1.0	1.1	8.9	15.0	-0.9	1.1	8.8	15.2	-0.9	0.6	8.8	15.2	-0.8	1.0	0.1
16	9.4	11.8	0.5	2.4	9.1	11.6	0.2	3.1	7.1	9.9	-1.7	-0.3	9.4	12.2	0.6	2.9	2.3
17	10.2	14.3	0.8	3.3	10.2	14.3	1.1	3.0	10.0	14.4	2.9	2.9	10.1	14.5	0.7	3.2	0.2
18	9.5	14.5	-0.7	2.9	9.7	14.7	-0.5	2.7	9.4	14.7	-0.6	2.4	9.3	14.6	-0.8	2.5	0.4
19	10.2	14.8	0.7	3.4	8.0	12.6	-1.7	1.2	10.0	14.9	0.6	2.9	10.0	15.0	0.7	3.3	2.2
20	9.9	14.6	-0.3	3.0	10.0	14.7	2.0	3.3	9.7	14.6	-0.3	2.1	9.6	14.6	-0.4	2.9	0.4
21	10.3	15.1	0.4	3.2	10.4	15.2	0.4	3.1	10.2	15.3	0.5	2.7	10.0	15.1	0.4	2.7	0.4
22	10.7	14.4	0.4	4.0	10.7	14.4	0.3	4.0	10.5	14.5	0.3	3.4	10.5	14.5	0.5	3.5	0.2
7	10.2	15.1	-0.5	4.0	10.3	15.2	-0.4	4.0	9.9	15.1	-0.6	3.6	9.9	15.0	-0.6	3.7	0.4
8	10.2	15.3	0.0	3.4	10.1	15.2	-0.2	3.0	9.8	15.2	-0.1	2.6	10.0	15.3	0.1	3.1	0.4
9	10.6	15.2	0.4	3.8	10.5	15.1	0.4	4.1	10.1	15.1	0.3	3.1	10.1	15.0	0.1	3.5	0.5
10	10.9	14.5	0.3	4.3	10.8	14.4	0.3	4.1	10.8	14.7	0.7	3.5	10.6	14.6	0.5	3.3	0.3
11	11.6	15.5	0.7	5.0	11.5	15.5	0.7	4.5	11.3	15.8	0.5	4.2	11.2	15.6	0.6	4.5	0.4
12	11.5	15.3	-0.1	5.1	11.7	15.6	0.2	4.8	11.3	15.5	0.0	4.5	11.1	15.2	-0.1	4.4	0.6
13	11.9	15.4	0.4	5.3	11.9	15.5	0.2	5.0	11.5	15.3	0.2	4.3	11.6	15.4	0.5	5.0	0.4
23	10.8	14.8	-1.1	4.0	10.7	14.7	-1.2	4.0	10.6	14.9	-0.9	3.4	10.4	14.7	-1.2	3.5	0.4
24	10.7	14.8	-0.1	4.0	11.1	15.2	0.4	3.6	10.4	15.0	-0.2	3.4	10.3	14.8	-0.1	3.2	0.8
25	9.9	15.0	-0.8	3.6	9.0	14.2	-2.1	2.4	9.4	15.0	-1.0	2.4	9.6	15.1	-0.7	3.0	0.9
26	11.0	14.4	1.1	3.2	10.9	14.4	1.9	3.0	10.7	14.6	1.3	2.7	10.8	14.6	1.2	3.1	0.3
27	11.1	14.5	0.1	3.6	11.2	14.7	0.3	3.5	10.7	14.5	0.0	3.1	10.8	14.5	0.0	3.0	0.5
28	11.7	15.4	0.6	4.5	11.7	15.5	0.5	4.3	11.4	15.6	0.7	3.8	11.3	15.4	0.5	4.1	0.4
29	10.9	14.6	-0.8	4.2	10.8	14.6	-0.9	4.0	10.7	14.8	-0.7	3.8	10.4	14.4	-0.9	3.6	0.5
30	10.8	14.1	-0.1	3.9	11.0	14.5	0.2	4.1	10.5	14.3	-0.2	3.1	10.6	14.3	0.2	3.8	0.5
31	11.3	15.0	0.5	4.0	11.2	15.0	0.2	3.8	11.0	15.0	0.5	3.2	11.0	15.1	0.4	3.4	0.3
32	11.5	14.4	0.2	4.1	11.6	14.6	0.4	4.0	11.4	14.8	0.4	4.0	11.5	14.8	0.5	4.4	0.2

**Test Point #8**



5109 Gardner Dr.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338; Date: 08/27/05

Run	1				2				3				4				
	Time: 01:00:36				Time: 06:58:38				Time: 13:36:04				Time: 19:10:08				
Temp	86				86				87				84				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
33	11.2	14.8	-0.3	4.9	11.0	14.7	-0.6	4.3	10.8	14.8	-0.6	3.8	10.9	14.9	-0.6	4.3	0.4
34	11.4	15.1	0.2	4.1	11.4	15.1	0.4	4.0	11.0	15.1	0.2	3.2	10.8	14.8	-0.1	3.3	0.6
35	11.6	14.4	0.2	4.7	11.5	14.3	0.1	4.3	11.3	14.4	0.3	4.1	11.3	14.3	0.5	4.4	0.3
36	11.7	14.6	0.1	4.6	11.4	14.4	-0.1	4.1	10.9	14.2	-0.4	3.4	11.1	14.4	-0.2	3.8	0.8
37	12.3	15.6	0.6	4.8	12.2	15.5	0.8	4.7	11.8	15.4	0.9	4.1	11.9	15.5	0.8	4.5	0.5
38	12.1	15.4	-0.2	5.0	12.1	14.2	-0.1	4.9	11.5	15.2	-0.3	3.7	11.4	14.9	-0.5	4.1	0.7
39	11.6	14.3	-0.5	3.7	11.7	14.4	-0.4	3.7	11.3	14.4	-0.2	3.3	11.2	14.2	-0.2	3.5	0.5
40	11.9	14.9	0.3	4.3	11.8	14.8	0.1	4.2	11.3	14.6	0.0	3.5	11.6	15.0	0.4	4.0	0.6
41	12.4	14.4	0.5	4.4	12.2	14.3	0.4	4.0	12.0	14.6	0.7	3.5	12.0	14.6	0.4	3.7	0.4
42	10.8	14.7	-1.6	3.9	10.7	14.6	-1.5	3.5	10.4	14.6	-1.6	2.9	10.4	14.6	-1.6	3.3	0.4
43	10.9	15.1	0.1	2.8	11.0	15.2	0.3	2.1	10.8	15.3	0.4	1.8	10.5	15.0	0.1	1.9	0.5
44	11.6	14.5	0.7	3.5	11.7	14.5	0.7	4.1	11.5	14.8	0.7	3.0	11.4	14.7	0.9	3.4	0.3
45	11.8	14.8	0.2	4.6	11.9	14.9	0.2	4.3	11.6	15.0	0.1	3.9	11.4	14.7	0.0	4.3	0.5
46	12.7	15.1	0.9	4.2	12.4	14.8	0.5	3.5	12.2	15.0	0.6	3.3	12.3	15.1	0.9	3.5	0.5
47	11.6	13.7	-1.1	3.8	11.5	13.6	-0.9	3.8	11.2	13.7	-1.0	3.4	11.2	13.7	-1.1	3.6	0.4
48	12.6	14.7	1.0	3.7	12.4	14.6	0.9	3.5	11.9	14.7	0.7	2.5	12.3	15.0	1.1	3.1	0.7
49	13.1	14.6	0.5	5.2	12.8	14.4	0.4	4.9	12.6	14.6	0.7	4.3	12.7	14.8	0.4	4.8	0.5
50	12.6	14.5	-0.5	5.0	12.6	14.5	-0.2	4.8	12.2	14.5	-0.4	3.7	12.4	14.6	-0.3	4.5	0.4
51	13.0	15.0	0.4	4.9	12.8	14.8	0.2	4.9	12.7	15.2	0.5	4.1	12.6	15.1	0.2	4.4	0.4
52	13.2	14.9	0.2	5.4	13.2	15.0	0.4	5.1	12.7	14.8	0.0	4.0	12.8	14.9	0.2	4.6	0.5
53	13.3	14.8	0.1	5.6	13.1	14.6	-0.1	5.2	12.9	14.7	0.2	4.8	12.9	14.7	0.1	5.0	0.4
54	12.8	14.5	-0.5	5.3	12.7	14.5	-0.4	5.2	12.5	14.7	-0.4	4.5	12.2	14.4	-0.7	4.8	0.6
55	13.2	14.7	0.4	5.0	13.3	14.9	0.6	5.0	12.8	14.9	0.3	4.2	12.8	14.8	0.6	4.4	0.5
56	13.1	14.8	-0.1	5.2	12.8	14.5	-0.5	4.6	12.4	14.6	-0.4	4.3	12.8	15.0	0.0	4.8	0.7
57	13.3	14.4	0.2	5.0	13.5	14.7	0.7	5.1	12.9	14.5	0.5	4.1	12.5	14.1	-0.3	4.3	1.0
58	11.3	14.8	-2.0	2.8	11.3	14.8	-2.2	2.8	10.7	14.7	-2.2	1.9	10.8	14.7	-1.7	2.1	0.6
59	13.3	15.2	2.0	4.5	13.4	15.4	2.1	4.3	12.8	15.1	2.1	3.5	12.7	15.1	1.9	3.7	0.7
60	12.3	14.5	-1.0	4.0	12.3	14.7	-1.1	4.0	11.8	14.6	-1.0	3.2	11.9	14.7	-0.8	3.6	0.5
61	12.5	14.5	0.2	4.4	12.7	14.7	0.4	4.3	12.4	14.8	0.6	3.9	12.0	14.4	0.1	3.7	0.7
62	12.5	15.0	0.0	4.2	12.5	15.0	-0.2	3.8	12.3	15.3	-0.1	3.8	12.1	15.1	0.1	3.4	0.4
63	12.7	14.1	0.2	*2	12.6	14.0	0.1	*2	12.3	14.3	0.0	*2	12.4	14.3	0.3	*2	0.4
64	12.5	14.5	-0.2	4.4	12.3	14.3	-0.3	3.7	12.0	14.5	-0.3	3.2	11.9	14.3	-0.5	3.4	0.6
65	13.0	14.8	0.5	3.6	13.1	14.9	0.8	3.6	12.6	14.9	0.6	2.8	12.7	15.1	0.8	3.3	0.5
66	12.9	14.4	-0.1	3.9	12.8	14.4	-0.3	3.4	12.6	14.6	0.0	3.2	12.5	14.5	-0.2	3.6	0.4
67	13.5	14.1	0.6	4.1	13.3	14.0	0.5	3.6	13.0	14.1	0.4	3.3	13.1	14.2	0.8	3.7	0.5
68	14.1	15.1	0.6	4.9	14.1	15.1	0.8	4.5	13.6	15.1	0.6	3.9	13.6	15.2	0.5	4.2	0.5
69	13.4	14.2	-0.7	3.9	13.2	14.0	-0.9	3.7	12.9	14.2	-0.7	3.1	12.9	14.2	-0.7	3.2	0.5
70	13.3	15.0	-0.1	4.6	13.0	14.8	-0.2	4.1	12.9	15.1	0.0	3.7	12.8	15.0	-0.1	3.8	0.5
71	12.3	15.0	1.4	3.2	12.3	15.0	1.5	3.1	12.1	15.3	1.0	2.7	11.9	15.1	0.1	2.7	0.4
72	12.5	15.1	0.2	4.6	12.5	15.2	0.2	4.6	12.5	15.4	0.4	4.4	11.5	14.8	-0.4	3.6	1.0



**Test Point #8**



5109 Gardner Dr.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338; Date: 08/27/05

Run	1				2				3				4				
	Time: 01:00:36				Time: 08:58:38				Time: 13:36:04				Time: 19:10:08				
Temp	86				86				87				84				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
73	12.8	14.6	0.3	3.8	12.7	14.5	0.2	3.6	12.0	14.2	-0.5	2.9	12.1	14.4	0.6	3.1	0.8
74	13.6	14.8	0.8	5.4	13.6	15.0	0.9	5.1	12.9	14.6	0.9	4.1	13.0	14.8	0.9	4.5	0.7
75	13.8	14.9	0.2	3.6	13.8	15.0	0.2	3.7	13.3	15.1	0.4	2.7	13.4	15.1	0.4	2.8	0.5
76	12.4	15.0	-1.4	3.5	12.5	15.2	-1.3	3.8	12.1	15.3	-1.2	2.7	11.9	15.1	-1.5	3.1	0.6
77	11.3	15.4	-1.1	2.5	11.1	15.4	-1.4	2.1	10.7	15.3	-1.4	1.8	10.8	15.4	-1.1	2.0	0.6
78	10.9	13.3	-2.5	4.0	10.8	13.2	-2.4	1.8	11.1	14.0	-1.8	2.6	11.8	14.7	-1.1	3.2	1.0
Min Value	7.6	11.8	-2.5	1.1	7.7	11.6	-2.4	1.1	7.1	9.9	-2.2	-0.3	7.2	12.2	-1.7	1.0	0.1
Max Value	14.1	15.6	2.0	5.7	14.1	15.6	2.1	5.2	13.6	15.8	2.9	5.1	13.6	15.6	1.9	5.1	2.3

Notes:

\*1 - Station off air - standby by carrier in use

\*2 - New channel addition there is no 6 month reference



## Distortion Measurements

Comcast of Alexandria, VA performed distortion tests at 11 test points, as required by the FCC (76.601 (c)(1)), which states that at least 6 test points for the first 12,500 subscribers, adding 1 test point for each additional 12,500 subscribers. Comcast of Alexandria's subscriber count is 51,657 as of 07/01/05. All of Comcast's test points are distributed through the outer edges of the county at its farthest node locations, with the test points being at the end-of-line. Which meets the requirement that all geographic areas be represented and at least 1/3 of the test points being the most distant points in the system.

At each test point, 9 channels were tested for distortions as required by the FCC (76.601(c)(2)), which states at least 4 channels must be tested at each test point, adding 1 channel for each 100 MHz block above 100 MHz. Comcast of Arlington's analog bandwidth is 550 MHz.

### **Current FCC distortion specifications are as follows:**

The C/N measurement (76.605 (a)(7)(ii)) shall not be less than 43dB.

The CTB, CSO and X-mod measurements (76.605 (a)(8)(I)) shall not be less than 51dB.

The HUM measurement (76.605(a)(10)) shall not exceed 3.0%.

The Aural Carrier Difference (4.5 Difference)(76.605 (a)(2)) must be 4.5 MHz above the Visual Carrier, +/- 5KHz.

The In-Channel Frequency Response (In-Band Frequency Response) (76.605 (a)(6)) should not vary by more than +/- 2dB.

**Test Point #9**

**Comcast**

418 Bashford Ln.  
Alexandria, VA

FCC Distortion Measurements  
EQUIPMENT USED:

H/P 8591C, S/N 3916A04384

Pre-Amplifier 85905A, S/N 6093-0551

TRILITHIC VF-4-88, S/N 9330002

Tektronix VITS200, S/N B020963

CONVERTER BOX SA 8511, S/N GF505BFDN

CH.	FREQ. RSP 2dB Max	HUM% 3% Max	CSO 51dB Min	CTB 51dB Min	C/N 43dB Min	4.5 DIFF 5KHz Max
2	1.1	0.7	60.6	64.9	49.6	4.5000
95	0.9	0.9	69.8	51.3	50.7	4.5000
21	1	0.7	66.1	58	49.6	4.5001
8	0.4	0.7	72.4	56.2	47.9	4.5000
28	0.5	0.7	72	59.1	51.8	4.5001
32	0.8	0.9	69.1	60	51.3	4.5003
47	0.6	0.8	71.8	59.4	51.2	4.5000
58	0.5	0.5	78	59.2	50	4.5001
72	1.2	0.7	65.0	61	50.4	4.5000
Minimum values:			60.6	51.3	47.9	
Maximum values:		1.2	0.9			0.0003

Date: 08/17/05 Time: 10:45 am Temp: 82

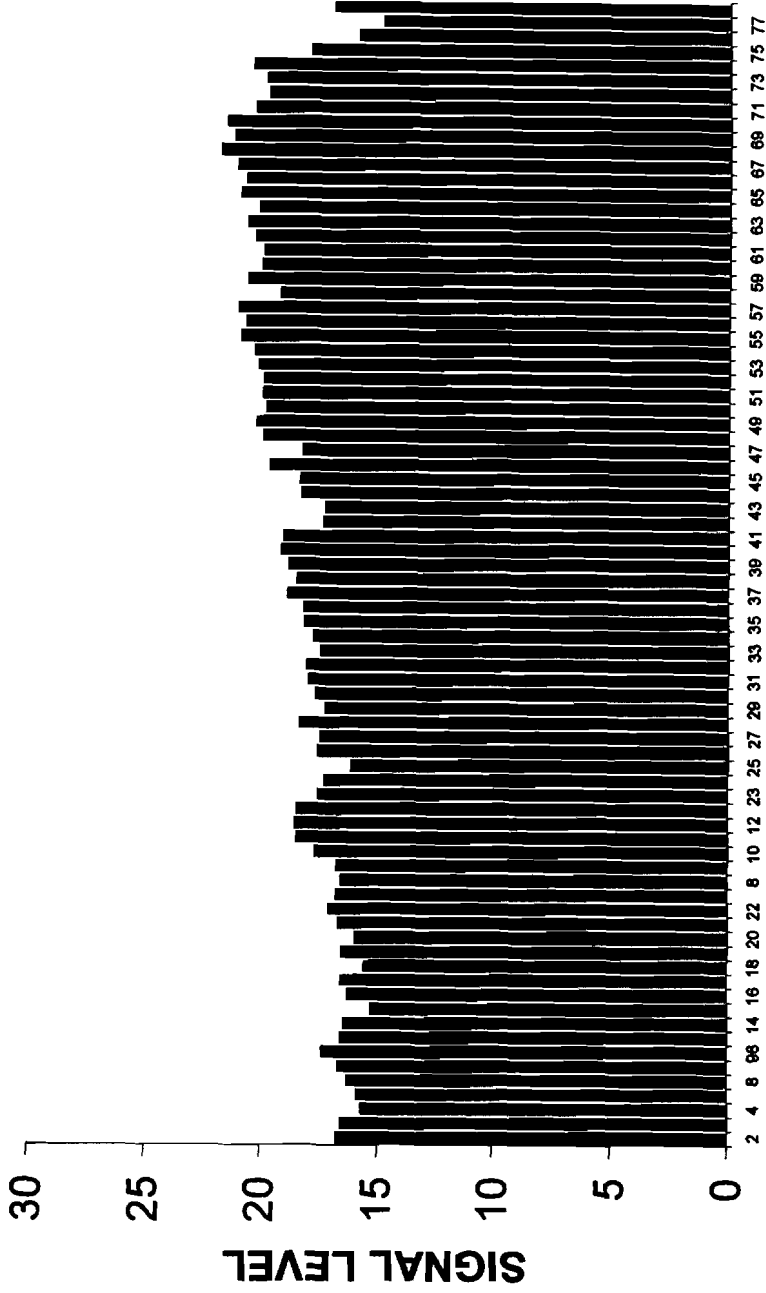


### Signal Level Variance

The ranges allowed by the FCC (76.605 (a)(4)(i,ii,iii)) are as follows:

4. Each level shall not vary by more than 8dB within any 6-month interval.
  - i. Adjacent channel level to be within 3dB of each other.
  - ii. Visual signal level on any other channel on a cable television system should be less than 10dB for systems of up to 300 MHz; for each additional 100 MHz, add 1dB to maximum difference level.
  - iii. A maximum level such that signal degradation due to overload in the subscriber's Receiver or terminal does not occur.

**TEST POINT #9**



**CHANNEL**

The maximum signal level is 22 dBmV

The maximum adjacent channel level difference is 2.9 dBmV  
The maximum level difference between the highest and lowest is 7.4 dBmV  
The maximum six month variance is 5.2 dBmV

**Test Point #9**



418 Bashford Ln.

24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338;

Date: 08/27/05

Run	1				2				3				4				
	Time: 00:34:48				Time: 06:36:10				Time: 13:02:27				Time: 18:44:20				
Temp	86				86				89				84				
Chan	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	24 HR Vid Diff
2	16.8	13.0		1.7	16.0	7.9		1.2	16.9	13.1		2.2	16.7	12.9		1.8	0.9
3	16.6	15.2	-0.2	1.9	16.5	15.2	0.5	1.4	16.8	15.4	-0.1	2.1	16.3	14.9	-0.4	1.0	0.5
4	15.7	15.0	-0.9	1.6	15.9	15.2	-0.6	1.9	15.9	15.1	-0.9	2.0	15.7	15.0	-0.6	1.7	0.2
5	15.9	14.6	0.2	1.7	15.9	14.6	0.0	1.5	15.9	14.5	0.0	1.6	15.9	14.6	0.2	1.3	0.0
6	16.3	15.4	0.4	1.8	16.3	15.5	0.4	1.7	16.3	15.4	0.4	2.1	16.5	15.6	0.6	1.8	0.2
95	16.7	13.8	0.4	2.8	17.5	6.0	1.2	3.7	17.0	14.0	0.7	3.2	17.1	14.1	0.6	3.1	0.8
96	17.4	15.0	0.7	3.4	17.5	15.0	0.0	3.8	17.7	15.3	0.7	3.7	17.5	15.2	0.4	3.5	0.3
99	16.6	14.8	-0.8	2.1	16.6	14.8	-0.9	2.3	16.8	14.9	-0.9	2.7	16.7	14.8	-0.8	2.2	0.2
14	16.5	14.7	-0.1	1.0	16.6	14.8	0.0	1.4	16.7	14.9	-0.1	1.4	16.5	14.8	-0.2	1.2	0.2
15	15.3	14.7	-1.2	-0.8	15.4	14.8	-1.2	-0.6	15.9	15.3	-0.8	-0.2	15.5	14.8	-1.0	-0.9	0.6
16	16.3	12.3	1.0	1.2	16.1	12.1	0.7	1.2	16.6	12.5	0.7	1.7	16.5	12.3	1.0	1.4	0.5
17	16.6	14.4	0.3	1.2	16.5	14.3	0.4	1.1	16.5	14.2	-0.1	1.1	16.7	14.5	0.2	1.1	0.2
18	15.6	14.5	-1.0	-0.1	15.8	14.5	-0.7	0.4	15.7	14.4	-0.8	0.4	15.7	14.5	-1.0	0.4	0.2
19	16.6	15.0	1.0	0.7	14.5	12.9	-1.3	-1.5	16.5	14.8	0.8	0.6	16.2	14.7	0.5	0.4	2.1
20	16.0	14.4	-0.6	-0.1	16.0	14.4	1.5	0.5	15.9	14.2	-0.6	0.4	15.9	14.2	-0.3	0.1	0.1
21	16.7	15.4	0.7	0.1	17.0	15.7	1.0	0.7	17.1	15.6	1.2	0.8	17.0	15.6	1.1	0.6	0.4
22	17.1	14.5	0.4	1.1	17.2	14.7	0.2	1.2	17.2	14.6	0.1	1.4	17.1	14.6	0.1	0.9	0.1
7	16.8	14.9	-0.3	1.2	16.7	15.0	-0.5	1.1	16.7	15.0	-0.5	1.4	16.7	15.0	-0.4	0.9	0.1
8	16.6	15.5	-0.2	0.4	16.7	15.6	0.0	0.7	16.6	15.4	-0.1	0.6	16.6	15.5	-0.1	0.5	0.1
9	16.8	14.7	0.2	1.2	16.9	14.9	0.2	1.6	17.0	14.9	0.4	1.7	16.9	14.8	0.3	1.2	0.2
10	17.7	15.0	0.9	1.5	17.5	14.7	0.6	1.1	17.7	14.9	0.7	1.6	17.8	15.1	0.9	1.3	0.3
11	18.5	15.9	0.8	2.2	18.5	15.9	1.0	2.2	18.4	15.6	0.7	2.3	18.5	15.9	0.7	2.1	0.1
12	18.6	15.8	0.1	2.1	18.3	15.6	-0.2	1.7	18.8	16.0	0.4	2.3	18.8	16.0	0.3	2.2	0.5
13	18.5	15.5	-0.1	1.8	18.5	15.4	0.2	1.8	18.4	15.2	-0.4	1.7	18.5	15.5	-0.3	1.5	0.1
23	17.6	15.2	-0.9	0.8	17.7	15.3	-0.8	0.9	17.6	15.2	-0.8	0.9	17.4	15.1	-1.1	0.4	0.3
24	17.3	14.9	-0.3	0.4	17.8	15.5	0.1	1.4	17.4	15.1	-0.2	0.5	17.3	14.9	-0.1	0.1	0.5
25	16.2	14.8	-1.1	-0.3	16.3	14.9	-1.5	0.1	16.4	14.9	-1.0	-0.1	16.2	14.9	-1.1	-0.4	0.2
26	17.6	14.9	1.4	0.3	17.6	14.8	1.3	0.2	17.7	14.8	1.3	0.4	17.6	14.8	1.4	-0.1	0.1
27	17.5	14.3	-0.1	1.0	17.5	14.3	-0.1	0.9	17.6	14.3	-0.1	1.1	17.3	14.1	-0.3	0.3	0.3
28	18.4	15.4	0.9	1.8	18.4	15.4	0.9	1.5	18.4	15.3	0.8	1.6	18.3	15.3	1.0	1.4	0.1
29	17.3	14.3	-1.1	0.9	17.6	14.5	-0.8	1.1	17.5	14.3	-0.9	1.0	17.5	14.4	-0.8	0.8	0.3
30	17.7	14.4	0.4	1.1	17.8	14.6	0.2	1.0	17.8	14.5	0.3	1.0	17.7	14.4	0.2	0.7	0.1
31	18.0	15.0	0.3	0.7	17.9	14.9	0.1	0.6	18.0	15.0	0.2	0.7	17.9	15.0	0.2	0.3	0.1
32	18.1	14.5	0.1	1.0	18.0	14.4	0.1	1.0	18.2	14.6	0.2	0.9	18.3	14.7	0.4	0.8	0.3

**Test Point #9**



418 Bashford Ln.  
24 Hour Level Variation  
Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338: Date: 08/27/05

Run	1					2					3					4				
Temp	86					86					89					84				
Chan	Time: 00:34:48					Time: 06:36:10					Time: 13:02:27					Time: 18:44:20				
	Vid	Aud	Adjctnt	6 Mth		Vid	Aud	Adjctnt	6 Mth		Vid	Aud	Adjctnt	6 Mth		Vid	Aud	Adjctnt	6 Mth	24 HR
33	17.5	14.8	-0.6	1.1	17.4	14.7	-0.6	1.0	17.5	14.8	-0.7	1.0	17.2	14.4	-1.1	0.4	0.3			
34	17.8	14.9	0.3	0.3	17.8	15.0	0.4	0.3	17.8	15.0	0.3	0.4	17.8	15.0	0.6	0.6	0.0			
35	18.2	14.2	0.4	1.3	18.0	14.1	0.2	0.7	18.3	14.3	0.5	1.0	17.9	14.0	0.1	0.6	0.4			
36	18.2	14.2	0.0	1.1	18.1	14.1	0.1	0.9	18.4	14.2	0.1	1.2	18.1	14.1	0.2	0.6	0.3			
37	18.9	15.0	0.7	1.6	19.0	15.1	0.9	1.7	19.1	15.1	0.7	1.8	18.7	14.9	0.6	1.2	0.4			
38	18.5	15.4	-0.4	1.0	19.2	15.4	0.2	1.7	18.5	14.9	-0.6	0.9	18.4	14.6	-0.3	0.6	0.8			
39	18.9	14.4	0.4	0.9	18.9	14.3	-0.3	1.0	18.8	14.5	0.3	0.8	18.9	14.3	0.5	0.6	0.1			
40	19.2	15.3	0.3	1.3	19.1	15.1	0.2	1.2	19.0	15.1	0.2	1.3	19.3	14.9	0.4	1.0	0.3			
41	19.1	14.5	-0.1	1.5	19.2	14.7	0.1	1.5	19.0	14.4	0.0	1.3	19.5	15.5	0.2	1.5	0.5			
42	17.4	15.1	-1.7	0.4	17.3	14.9	-1.9	0.0	17.6	15.2	-1.4	0.5	17.0	14.7	-2.5	-0.2	0.6			
43	17.3	15.1	-0.1	-1.0	17.4	15.1	0.1	-1.0	17.1	14.8	-0.5	-1.0	17.3	15.2	0.3	-1.3	0.3			
44	18.3	14.6	1.0	0.3	18.3	14.5	0.9	0.2	18.3	14.5	1.2	0.3	18.2	14.4	0.9	-0.2	0.1			
45	18.4	14.6	0.1	0.7	18.5	14.7	0.2	0.7	18.8	15.0	0.5	1.2	18.8	15.0	0.6	0.9	0.4			
46	19.7	15.2	1.3	0.6	19.8	15.4	1.3	0.6	19.9	15.5	1.1	1.2	19.8	15.4	1.0	0.4	0.2			
47	18.3	13.1	-1.4	0.1	18.5	13.2	-1.3	0.3	18.6	13.4	-1.3	0.4	18.4	13.2	-1.4	0.0	0.3			
48	20.0	14.8	1.7	0.1	19.9	14.7	1.4	0.0	19.6	14.4	1.0	-0.5	19.8	14.6	1.4	-0.2	0.4			
49	20.3	14.9	0.3	1.6	20.1	14.6	0.2	1.6	20.3	14.8	0.7	1.6	20.5	15.1	0.7	1.5	0.4			
50	19.9	14.7	-0.4	1.4	19.9	14.7	-0.2	1.3	19.8	14.7	-0.5	1.3	19.9	14.7	-0.6	1.2	0.1			
51	20.0	15.1	0.1	1.6	20.2	15.3	0.3	1.8	20.1	15.3	0.3	1.6	20.0	15.1	0.1	1.2	0.2			
52	20.0	14.4	0.0	1.3	20.0	14.5	-0.2	1.4	20.4	14.9	0.3	1.8	20.2	14.7	0.2	1.4	0.4			
53	20.2	14.4	0.2	1.9	20.4	14.6	0.4	2.1	20.4	14.6	0.0	2.3	20.2	14.4	0.0	1.6	0.2			
54	20.4	14.8	0.2	1.6	20.4	14.7	0.0	1.8	20.4	14.7	0.0	1.8	20.4	14.8	0.2	1.6	0.0			
55	21.0	15.2	0.6	1.9	21.1	15.2	0.7	1.8	21.1	15.2	0.7	2.1	20.9	15.1	0.5	1.7	0.2			
56	20.8	15.0	-0.2	2.0	20.8	15.0	-0.3	2.0	20.9	15.1	-0.2	2.0	20.7	14.9	-0.2	1.7	0.2			
57	21.1	14.5	0.3	1.8	21.3	14.7	0.5	2.1	21.4	14.8	0.5	2.3	21.1	14.5	0.4	1.6	0.3			
58	19.3	15.6	-1.8	-0.2	19.3	15.6	-2.0	0.0	19.4	15.6	-2.0	0.4	19.3	15.5	-1.8	-0.5	0.1			
59	20.7	15.4	1.4	0.7	20.6	15.3	1.3	0.9	20.6	15.2	1.2	0.7	20.5	15.2	1.2	0.3	0.2			
60	20.1	14.8	-0.6	0.7	19.8	14.5	-0.8	0.1	20.0	14.7	-0.6	0.5	19.7	14.5	-0.8	0.2	0.4			
61	20.0	14.3	-0.1	1.0	19.8	14.0	0.0	0.7	19.9	14.3	-0.1	0.9	19.8	14.2	0.1	0.5	0.2			
62	20.4	15.1	0.4	0.1	20.4	15.1	0.6	0.2	20.6	15.2	0.7	0.6	20.3	15.1	0.5	0.1	0.3			
63	20.7	14.7	0.3	*2	20.4	14.4	0.0	*2	20.5	14.5	-0.1	*2	20.5	14.5	0.2	*2	0.3			
64	20.2	13.9	0.1	-0.2	20.7	14.4	0.9	0.4	20.4	14.2	0.4	0.5	20.3	14.2	0.6	-0.2	0.5			
65	21.0	15.0	0.8	-0.1	21.0	15.0	0.3	0.2	20.9	14.9	0.5	0.3	20.8	14.9	0.5	-0.5	0.2			
66	20.8	14.7	-0.2	-0.1	20.8	14.7	-0.2	0.0	20.7	14.7	-0.2	0.0	20.4	14.6	-0.4	-0.9	0.4			
67	21.2	14.5	0.4	0.5	21.3	14.5	0.5	0.7	21.3	14.6	0.6	0.6	21.2	14.6	0.8	0.3	0.1			
68	21.9	15.0	0.7	1.4	21.9	15.0	0.6	0.9	22.0	15.1	0.7	1.1	21.7	14.9	0.5	0.6	0.3			
69	21.3	14.1	-0.6	0.4	21.3	14.1	-0.6	-0.1	21.3	14.2	-0.7	0.3	21.1	14.1	-0.6	-0.2	0.2			
70	21.6	15.3	0.3	2.6	21.6	15.2	0.3	2.3	21.8	15.5	0.5	2.2	21.7	15.5	0.6	2.4	0.2			
71	20.4	15.4	-1.2	2.2	20.4	15.4	-1.2	2.1	20.4	15.4	-1.4	2.2	20.4	15.6	-1.3	2.7	0.0			
72	19.8	15.4	-0.6	1.8	20.4	14.2	0.0	2.3	20.4	15.4	0.0	1.9	18.7	14.9	-1.7	0.0	1.7			

**Test Point #9**



418 Bashford Ln.

24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338:

Date: 09/27/05

Run	1			2			3			4							
Time:	00:34:48			06:38:10			13:02:27			18:44:20							
Temp	86			86			89			84							
Chan	Vid	Aud	Adjctnt	6 Mth	Vid	Aud	Adjctnt	6 Mth	Vid	Aud	Adjctnt	6 Mth	24 HR				
73	19.9	14.9	0.1	0.8	19.9	14.9	-0.5	0.9	19.9	15.0	-0.5	1.9	20.1	15.1	1.4	1.2	0.2
74	20.5	16.2	0.6	1.1	20.6	16.2	0.7	1.2	20.5	16.1	0.6	1.8	20.6	15.8	0.5	1.1	0.1
75	18.0	15.1	-2.5	-2.8	18.8	16.9	-1.8	-1.7	18.8	16.9	-1.7	-1.0	19.4	16.5	-1.2	-1.9	1.4
76	16.0	15.4	-2.0	-3.7	15.9	15.2	-2.9	-4.3	15.9	15.2	-2.9	-4.1	17.0	16.3	-2.4	-3.1	1.1
77	14.9	11.6	-1.1	-5.0	15.0	10.8	-0.9	-5.1	14.9	10.6	-1.0	-5.1	15.0	12.6	-2.0	-5.2	0.1
78	17.0	14.5	2.1	-3.9	17.4	14.7	2.4	-2.6	16.2	14.5	1.3	-4.6	17.5	11.6	2.5	-2.5	1.3
Min Value	14.9	11.6	-2.5	-5.0	14.5	7.9	-2.9	-5.1	14.9	10.6	-2.9	-5.1	15.0	11.6	-2.5	-5.2	0.0
Max Value	21.9	16.2	2.1	3.4	21.9	16.9	2.4	2.3	22.0	16.9	1.3	3.7	21.7	16.5	2.5	3.5	2.1

Notes:

\*1 - Station off air - standby by carrier in use

\*2 - New channel addition there is no 6 month reference





## Distortion Measurements

Comcast of Alexandria, VA performed distortion tests at 11 test points, as required by the FCC (76.601 (c)(1)), which states that at least 6 test points for the first 12,500 subscribers, adding 1 test point for each additional 12,500 subscribers. Comcast of Alexandria's subscriber count is 51,657 as of 07/01/05. All of Comcast's test points are distributed through the outer edges of the county at its farthest node locations, with the test points being at the end-of-line. Which meets the requirement that all geographic areas be represented and at least 1/3 of the test points being the most distant points in the system.

At each test point, 9 channels were tested for distortions as required by the FCC (76.601(c)(2)), which states at least 4 channels must be tested at each test point, adding 1 channel for each 100 MHz block above 100 MHz. Comcast of Arlington's analog bandwidth is 550 MHz.

### **Current FCC distortion specifications are as follows:**

The C/N measurement (76.605 (a)(7)(ii)) shall not be less than 43dB.

The CTB, CSO and X-mod measurements (76.605 (a)(8)(I)) shall not be less than 51dB.

The HUM measurement (76.605(a)(10)) shall not exceed 3.0%.

The Aural Carrier Difference (4.5 Difference)(76.605 (a)(2)) must be 4.5 MHz above the Visual Carrier, +/- 5KHz.

The In-Channel Frequency Response (In-Band Frequency Response) (76.605 (a)(6)) should not vary by more than +/- 2dB.

## Test Point #10

**comcast**

5465 Colfax Ave.

Alexandria, VA

FCC Distortion Measurements

EQUIPMENT USED:

H/P 8591C, S/N 3916A04384

Pre-Amplifier 85905A, S/N 6093-0551

TRILITHIC VF-4-88, S/N 9330002

Tektronix VITS200, S/N B020963

CONVERTER BOX SA 8511, S/N GF505BFDN

Date:08/17/05

Time: 12:30 pm

Temp: 83

CH.	FREQ. RSP 2dB Max	HUM% 3% Max	CSO 51dB Min	CTB 51dB Min	C/N 43dB Min	4.5 DIFF 5KHz Max
2	0.9	1.8	73.5	64.4	46.7	4.5000
95	0.7	1.3	67.6	63.6	47.1	4.5000
21	1.1	1.5	66.6	62.2	45.8	4.5000
8	0.4	1.3	67	63	46.6	4.5000
28	0.4	1.6	71.4	62	46.2	4.5001
32	0.8	1.4	65	63.1	45	4.5003
47	0.7	1.3	69.7	64.3	47.1	4.5000
58	0.5	1.8	67.7	61.7	46	4.5000
72	0.8	0.9	64.2	65.4	47.2	4.5001
Minimum values:			64.2	61.7	45.0	
Maximum values:	1.1	1.8				0.0003

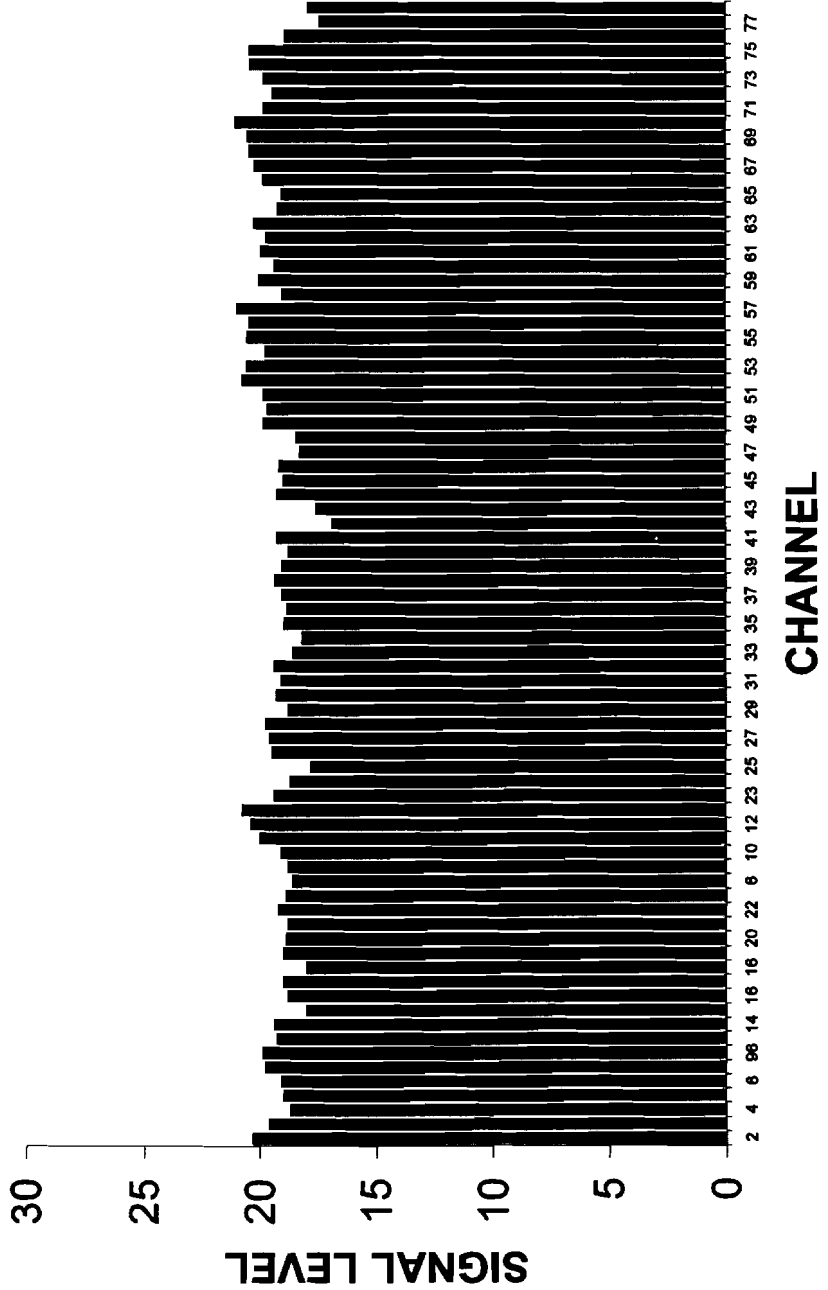


### Signal Level Variance

The ranges allowed by the FCC (76.605 (a)(4)(i,ii,iii)) are as follows:

4. Each level shall not vary by more than 8dB within any 6-month interval.
  - i. Adjacent channel level to be within 3dB of each other.
  - ii. Visual signal level on any other channel on a cable television system should be less than 10dB for systems of up to 300 MHz; for each additional 100 MHz, add 1dB to maximum difference level.
  - iii. A maximum level such that signal degradation due to overload in the subscriber's Receiver or terminal does not occur.

**TEST POINT #10**



The maximum signal level is 21.1 dBmV

The maximum adjacent channel level difference is 2.4 dBmV  
The maximum level difference between the highest and lowest is 6.5 dBmV  
The maximum six month variance is 4.3 dBmV

### Test Point #10

**Comcast**

5465 Colfax Ave

24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338;

Date: 08/27/05

Run 1					Run 2					Run 3					Run 4				
Time: 00:02:07					Time: 06:01:17					Time: 18:13:30					Time: 18:01:25				
Temp 86					86					89					84				
Chan	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	24 HR Vid Diff		
2	20.3	13.5		1.0	20.0	13.1		0.9	17.5	13.1		-1.0	20.0	13.0		1.0	2.8		
3	19.6	15.2	-0.7	0.0	19.7	15.3	-0.3	0.1	17.0	14.8	-0.5	-1.9	19.8	15.3	-0.2	0.4	2.8		
4	18.7	15.1	-0.9	0.3	18.5	14.9	-1.2	0.1	16.2	14.9	-0.8	-1.6	18.8	15.1	-1.0	0.4	2.6		
5	19.0	15.0	0.3	0.8	19.1	15.2	0.6	0.9	16.5	14.7	0.3	-1.3	19.2	15.1	0.4	0.7	2.7		
6	19.1	15.9	0.1	0.6	19.2	15.9	0.1	0.9	17.0	15.5	0.5	-0.9	19.2	15.8	0.0	0.6	2.2		
95	19.8	14.2	0.7	2.2	19.7	14.0	0.5	2.1	17.9	14.4	0.9	0.9	20.1	14.4	0.9	2.4	2.2		
96	19.9	14.6	0.1	2.8	19.9	14.5	0.2	2.7	17.9	14.5	0.0	1.1	19.9	14.5	-0.2	2.7	2.0		
99	19.3	14.8	-0.6	1.8	19.2	14.8	-0.7	1.6	17.6	15.0	-0.3	0.6	19.1	14.7	-0.8	1.5	1.7		
14	19.4	15.5	0.1	1.0	19.3	15.4	0.1	1.2	17.2	15.2	-0.4	-0.6	19.3	15.4	0.2	0.8	2.2		
15	18.0	14.9	-1.4	-1.0	17.9	14.6	-1.4	-1.0	16.1	14.9	-1.1	-2.2	18.0	14.8	-1.3	-1.1	1.9		
16	18.8	12.5	0.8	1.0	18.5	12.2	0.6	0.8	16.6	12.0	0.5	-0.6	18.1	11.6	0.1	0.3	2.2		
17	19.0	14.6	0.2	0.6	19.1	14.6	0.6	0.7	17.5	14.6	0.9	-0.4	19.2	14.7	1.1	0.8	1.7		
18	18.0	14.5	-1.0	-0.3	17.8	14.2	-1.3	-0.4	16.5	15.0	-1.0	-1.1	18.0	14.3	-1.2	-0.2	1.5		
19	19.0	15.3	1.0	0.9	17.4	13.6	-0.4	-1.0	17.0	14.3	0.5	-1.0	18.9	15.1	0.9	0.5	2.0		
20	18.9	15.5	-0.1	0.0	18.8	15.3	1.4	-0.1	17.0	14.9	0.0	-1.2	18.9	15.4	0.0	0.1	1.9		
21	18.8	15.2	-0.1	0.0	18.8	15.2	0.0	0.1	17.0	14.8	0.0	-1.3	18.9	15.4	0.0	-0.2	1.9		
22	19.2	14.6	0.4	0.9	19.2	14.5	0.4	1.0	17.9	14.7	0.9	0.2	19.2	14.4	0.3	0.8	1.3		
7	18.9	15.1	-0.3	0.7	18.9	15.1	-0.3	1.0	17.2	14.9	-0.7	-0.2	18.9	15.2	-0.3	0.8	1.7		
8	18.6	15.1	-0.3	0.5	18.5	14.9	-0.4	0.3	17.3	15.2	0.1	0.0	18.6	15.0	-0.3	0.1	1.3		
9	18.8	14.9	0.2	1.2	18.8	14.9	0.3	1.2	17.8	14.7	0.5	0.7	18.8	14.8	0.2	1.0	1.0		
10	19.1	14.6	0.3	1.0	19.3	14.7	0.5	1.3	18.6	14.7	0.8	1.3	19.4	14.8	0.6	1.4	0.8		
11	20.0	15.4	0.9	1.9	19.8	15.2	0.5	1.8	19.0	15.4	0.4	1.5	19.9	15.1	0.5	1.8	1.0		
12	20.4	15.6	0.4	1.6	20.4	15.6	0.6	1.5	19.5	15.9	0.5	1.5	20.7	15.9	0.8	1.8	1.2		
13	20.8	15.6	0.4	1.8	20.8	15.7	0.4	1.7	19.5	15.4	0.0	1.1	20.8	15.6	0.1	1.8	1.3		
23	19.4	15.1	-1.4	0.8	19.2	14.9	-1.6	0.7	18.2	14.7	-1.3	0.1	19.2	14.9	-1.6	0.4	1.2		
24	18.7	14.8	-0.7	0.6	19.1	15.2	-0.1	1.0	17.8	14.6	-0.4	0.3	18.6	14.7	-0.6	0.5	1.3		
25	17.8	14.4	-0.9	-0.2	17.7	14.4	-1.4	-0.3	17.1	14.9	-0.7	-0.1	17.7	14.3	-0.9	-0.5	0.7		
26	19.5	14.5	1.7	0.6	19.5	14.4	1.8	0.4	18.4	14.6	1.3	-0.1	19.4	14.2	1.7	0.2	1.1		
27	19.6	14.9	0.1	1.1	19.7	14.9	0.2	0.9	18.4	14.5	0.0	-0.2	19.9	15.0	0.5	1.0	1.5		
28	19.8	15.4	0.2	1.5	19.9	15.4	0.2	1.5	19.3	15.4	0.9	1.5	20.2	15.6	0.3	1.7	0.9		
29	18.8	14.7	-1.0	1.5	18.8	14.6	-1.1	1.4	18.4	14.7	-0.9	1.3	19.0	14.8	-1.2	1.2	0.6		
30	19.3	14.9	0.5	1.7	19.4	15.0	0.6	1.7	18.8	15.1	0.4	1.4	19.6	15.0	0.6	1.5	0.8		
31	19.1	14.9	-0.2	1.3	19.0	14.8	-0.4	1.0	18.6	14.9	-0.2	1.3	19.2	15.0	-0.4	0.8	0.6		
32	19.4	14.9	0.3	1.6	19.4	14.9	0.4	1.6	18.9	15.1	0.3	1.4	19.7	15.2	0.5	1.3	0.8		

### Test Point #10



5465 Colfax Ave  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338; Date: 08/27/05

Run	1				2				3				4				
	Time: 00:02:07				Time: 08:01:17				Time: 18:13:30				Time: 18:01:25				
Temp	86				86				89				84				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
33	18.6	15.1	-0.8	1.8	18.5	15.0	-0.9	2.0	17.8	14.7	-1.1	1.4	18.7	15.3	-1.0	1.5	0.9
34	18.2	14.7	-0.4	0.9	18.2	14.7	-0.3	1.1	17.9	14.7	0.1	1.0	18.2	14.8	-0.5	0.6	0.3
35	19.0	15.2	0.8	1.7	18.8	15.0	0.6	1.4	18.4	14.6	0.5	1.4	18.7	14.8	0.5	0.9	0.6
36	18.9	14.7	-0.1	1.7	18.6	14.4	-0.2	1.3	18.4	14.6	0.0	1.5	18.7	14.4	0.0	1.1	0.5
37	19.1	14.8	0.2	1.9	19.3	15.0	0.7	2.1	19.0	14.9	0.6	2.0	19.4	15.1	0.7	2.0	0.4
38	19.4	14.9	0.3	1.8	19.2	14.9	-0.1	1.5	19.5	14.5	0.5	2.0	19.2	15.0	-0.2	1.0	0.3
39	19.1	14.6	-0.3	0.8	19.0	14.4	-0.2	1.0	18.7	15.0	-0.8	0.9	19.0	14.4	-0.2	0.5	0.4
40	18.8	14.8	-0.3	1.0	18.8	14.8	-0.2	1.0	18.3	14.8	-0.4	1.1	19.0	14.9	0.0	0.8	0.7
41	19.3	15.1	0.5	1.1	19.2	15.1	0.4	0.9	18.7	15.1	0.4	1.2	19.3	15.1	0.3	1.0	0.6
42	16.9	14.1	-2.4	0.1	16.9	14.1	-2.3	0.2	16.6	14.5	-2.1	0.3	16.9	14.1	-2.4	-0.1	0.3
43	17.6	14.6	0.7	-0.7	17.6	14.6	0.7	-0.6	16.5	15.0	-0.1	-1.4	17.6	14.5	0.7	-0.7	1.1
44	19.3	15.3	1.7	0.6	19.3	15.3	1.7	0.3	17.6	14.9	1.1	-0.7	19.1	15.1	1.5	-0.2	1.7
45	19.0	15.3	-0.3	1.4	18.8	15.1	-0.5	0.9	17.5	15.0	-0.1	0.4	18.8	15.0	-0.3	0.9	1.5
46	19.2	15.1	0.2	0.5	19.4	15.3	0.6	0.8	18.0	14.8	0.5	0.0	19.3	15.1	0.5	0.3	1.4
47	18.3	15.2	-0.9	0.7	18.2	15.1	-1.2	0.3	17.2	13.7	-0.8	0.2	18.4	15.3	-0.9	0.4	1.2
48	18.5	13.8	0.2	0.5	18.3	13.5	0.1	0.4	18.0	14.6	0.8	0.5	18.4	13.7	0.0	0.1	0.5
49	19.9	14.8	1.4	1.8	20.0	14.9	1.7	1.9	18.6	15.2	0.6	0.9	19.9	14.7	1.5	1.4	1.4
50	19.7	14.4	-0.2	1.3	19.8	14.5	-0.2	1.4	18.1	14.8	-0.5	0.3	19.9	14.7	0.0	1.6	1.8
51	19.9	14.4	0.2	1.5	20.0	14.6	0.2	1.7	18.0	14.8	-0.1	0.4	19.9	14.4	0.0	1.6	2.0
52	20.8	15.3	0.9	2.3	20.5	15.1	0.5	1.6	18.3	14.9	0.3	-0.1	20.6	15.0	0.7	1.5	2.5
53	20.6	15.1	-0.2	1.9	20.6	15.0	0.1	1.8	18.7	14.9	0.4	0.6	20.9	15.3	0.3	1.9	2.2
54	19.8	14.5	-0.8	1.6	20.0	14.6	-0.6	1.5	18.4	15.1	-0.3	0.6	20.0	14.6	-0.9	1.4	1.6
55	20.6	15.4	0.8	1.8	20.5	15.3	0.5	1.6	18.6	15.4	0.2	0.1	20.2	15.0	0.2	1.1	2.0
56	20.5	14.7	-0.1	2.0	20.4	14.6	-0.1	1.8	18.1	15.1	-0.5	0.2	20.7	14.8	0.5	1.7	2.6
57	21.0	14.8	0.5	2.2	20.9	14.8	0.5	2.1	17.8	14.7	-0.3	-0.5	21.0	14.9	0.3	1.8	3.2
58	19.1	15.4	-1.9	-0.6	19.3	15.6	-1.6	-0.3	16.0	15.6	-1.8	-2.9	19.2	15.6	-1.8	-0.6	3.3
59	20.1	15.1	1.0	1.1	20.3	15.3	1.0	1.3	16.9	14.7	0.9	-1.4	20.1	15.0	0.9	0.8	3.4
60	19.4	14.3	-0.7	1.2	19.5	14.5	-0.8	1.2	16.6	14.7	-0.3	-1.1	19.5	14.5	-0.6	1.0	2.9
61	20.0	14.9	0.6	1.2	20.1	15.0	0.6	1.5	16.8	15.0	0.2	-1.3	20.0	14.9	0.5	0.9	3.3
62	19.8	14.4	-0.2	1.1	19.9	14.5	-0.2	1.1	16.3	14.6	-0.5	-2.0	20.0	14.4	0.0	0.6	3.7
63	20.3	15.0	0.5	*2	20.3	15.0	0.4	*2	16.6	14.3	0.3	*2	20.2	14.9	0.2	*2	3.7
64	19.3	14.8	-0.1	1.0	19.4	14.9	-0.1	0.9	16.6	15.3	0.0	-1.1	19.3	14.9	-0.2	0.5	2.8
65	19.1	14.3	-0.2	0.3	19.4	14.5	0.0	0.6	16.0	14.8	-0.6	-2.2	19.4	14.5	0.1	0.4	3.4
66	19.9	14.4	0.8	0.7	19.8	14.4	0.4	0.5	16.2	14.8	0.2	-2.6	19.9	14.5	0.5	0.6	3.7
67	20.3	14.5	0.4	0.7	20.3	14.5	0.5	0.8	16.2	14.7	0.0	-2.6	20.4	14.6	0.5	0.6	4.2
68	20.5	14.3	0.2	1.5	20.6	14.4	0.3	1.3	16.3	14.5	0.1	-2.2	20.5	14.4	0.1	0.9	4.3
69	20.6	14.5	0.1	1.3	20.6	14.4	0.0	1.1	16.4	14.3	0.1	-2.3	20.5	14.3	0.0	0.9	4.2
70	21.1	15.3	0.5	1.8	20.9	15.1	0.3	1.5	16.8	15.0	0.4	-1.6	20.8	15.1	0.3	1.3	4.3
71	19.9	14.7	-1.2	0.8	19.8	14.6	-1.1	0.8	15.6	15.0	-1.2	-2.9	19.9	14.7	-0.9	0.5	4.3
72	19.5	14.5	-0.4	0.3	19.5	14.5	-0.3	0.4	15.4	14.9	-0.2	-3.1	19.5	15.1	-0.4	-0.1	4.1

**Test Point #10**

**Comcast**

5465 Colfax Ave  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338; Date: 08/27/05

Run	1				2				3				4				
	Time: 00:02:07				Time: 06:01:17				Time: 18:13:30				Time: 18:01:25				
Temp	86				86				89				84				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
73	19.9	15.2	0.4	1.0	19.8	15.0	0.3	0.8	15.9	15.1	0.5	-2.4	19.9	15.2	0.4	0.8	4.0
74	20.5	14.9	0.6	2.2	20.4	14.9	0.6	2.1	16.1	14.9	0.2	-1.6	20.5	15.0	0.6	1.9	4.4
75	20.5	16.0	0.0	-0.5	18.5	12.8	-1.9	-0.1	16.2	16.1	0.1	-2.5	20.4	15.8	-0.1	-0.4	4.3
76	19.0	14.9	-1.5	0.9	18.4	14.2	-0.1	0.2	14.2	14.6	-2.0	-3.3	19.0	14.8	-1.4	0.5	4.8
77	17.5	15.2	-1.5	-0.8	17.4	15.1	-1.0	-0.6	13.0	15.3	-1.2	-4.3	17.2	14.9	-1.8	-0.9	4.5
78	18.0	13.6	0.5	-1.1	17.3	12.9	-0.1	-1.7	14.4	14.4	1.4	-4.2	18.9	14.3	1.7	-0.1	4.5
Min Value	16.9	12.5	-2.4	-1.1	16.9	12.2	-2.3	-1.7	13.0	12.0	-2.1	-4.3	16.9	11.6	-2.4	-1.1	0.3
Max Value	21.1	16.0	1.7	2.8	20.9	15.9	1.8	2.1	19.5	16.1	1.4	2.0	21.0	15.9	1.7	2.7	4.8

Notes:

\*1 - Station off air - standby by carrier in use

\*2 - New channel addition there is no 6 month reference



## Distortion Measurements

Comcast of Alexandria, VA performed distortion tests at 11 test points, as required by the FCC (76.601 (c)(1)), which states that at least 6 test points for the first 12,500 subscribers, adding 1 test point for each additional 12,500 subscribers. Comcast of Alexandria's subscriber count is 51,657 as of 07/01/05. All of Comcast's test points are distributed through the outer edges of the county at its farthest node locations, with the test points being at the end-of-line. Which meets the requirement that all geographic areas be represented and at least 1/3 of the test points being the most distant points in the system.

At each test point, 9 channels were tested for distortions as required by the FCC (76.601(c)(2)), which states at least 4 channels must be tested at each test point, adding 1 channel for each 100 MHz block above 100 MHz. Comcast of Arlington's analog bandwidth is 550 MHz.

### **Current FCC distortion specifications are as follows:**

The C/N measurement (76.605 (a)(7)(ii)) shall not be less than 43dB.

The CTB, CSO and X-mod measurements (76.605 (a)(8)(I)) shall not be less than 51dB.

The HUM measurement (76.605(a)(10)) shall not exceed 3.0%.

The Aural Carrier Difference (4.5 Difference)(76.605 (a)(2)) must be 4.5 MHz above the Visual Carrier, +/- 5KHz.

The In-Channel Frequency Response (In-Band Frequency Response) (76.605 (a)(6)) should not vary by more than +/- 2dB.



## Test Point #11

### Comcast

2357 N Early St.  
Alexandria, VA

FCC Distortion Measurements  
EQUIPMENT USED:

H/P 8591C, S/N 3916A04384

Pre-Amplifier 85905A, S/N 6093-0551

TRILITHIC VF-4-88, S/N 9330002

Tektronix VITS200, S/N B020963

CONVERTER BOX SA 8511, S/N GF505BFDN

Date: 08/17/05      Time: 1:30 pm      Temp: 83

CH.	FREQ. RSP 2dB Max	HUM% 3% Max	CSO 51dB Min	CTB 51dB Min	C/N 43dB Min	4.5 DIFF 5KHz Max
2	1.2	1.1	70.3	66.5	45.8	4.5000
95	0.9	2.1	73	64.2	46.3	4.5000
21	0.6	1.9	67	61.7	46	4.5000
8	0.4	1.7	64.4	61.3	46.2	4.5000
28	0.6	1.8	71.6	63.1	45.5	4.5000
32	1	1.6	66.2	64.1	46.4	4.5003
47	0.3	1.2	68.8	61.7	47.2	4.5000
58	0.7	1.1	68.9	61.4	46.2	4.5001
72	0.6	1.1	65.9	63.2	49.0	4.5001
Minimum values:						
Maximum values:						
	1.2	2.1	64.4	61.3	45.5	0.0003

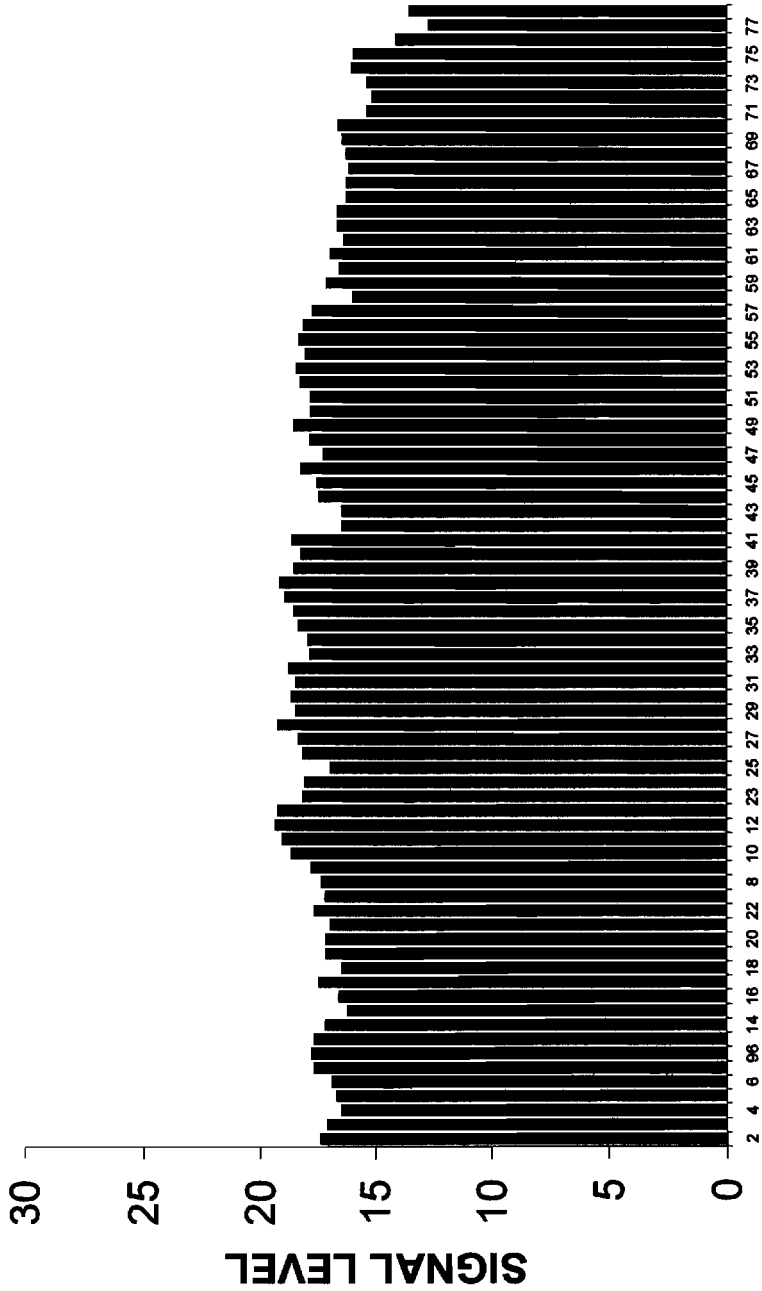


### Signal Level Variance

The ranges allowed by the FCC (76.605 (a)(4)(i,ii,iii)) are as follows:

4. Each level shall not vary by more than 8dB within any 6-month interval.
  - i. Adjacent channel level to be within 3dB of each other.
  - ii. Visual signal level on any other channel on a cable television system should be less than 10dB for systems of up to 300 MHz; for each additional 100 MHz, add 1dB to maximum difference level.
  - iii. A maximum level such that signal degradation due to overload in the subscriber's Receiver or terminal does not occur.

**TEST POINT #11**



The maximum signal level is 19.6 dBmV

The maximum adjacent channel level difference is 2.3 dBmV  
The maximum level difference between the highest and lowest is 6.6 dBmV  
The maximum six month variance is 3.4 dBmV

**Test Point #11**



2357 N Early St  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338; Date: 08/27/05

Run	1				2				3				4				
	Time: 00:14:29				Time: 08:13:48				Time: 12:22:22				Time: 18:13:30				
Temp	86				86				89				84				
Chan	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	24 HR Vid Diff
2	17.4	13.0		-0.2	17.5	13.2		0.0	17.6	13.2		0.2	17.5	13.1		-0.3	0.2
3	17.1	14.9	-0.3	-1.0	17.3	15.1	-0.2	-0.8	17.5	15.3	-0.1	-0.7	17.0	14.8	-0.5	-1.3	0.5
4	16.5	15.2	-0.6	-0.8	16.0	14.7	-1.3	-0.4	16.4	15.0	-1.1	-0.6	16.2	14.9	-0.8	-1.3	0.5
5	16.7	14.9	0.2	-0.3	16.5	14.7	0.5	0.2	16.8	14.9	0.4	0.1	16.5	14.7	0.3	-0.6	0.3
6	16.9	15.6	0.2	-0.4	16.8	15.4	0.3	-0.4	16.9	15.4	0.1	-0.2	17.0	15.5	0.5	-0.5	0.2
95	17.7	14.3	0.8	0.7	17.6	14.2	0.8	1.0	18.0	14.5	1.1	1.3	17.9	14.4	0.9	1.0	0.4
96	17.8	14.5	0.1	1.5	17.7	14.2	0.1	1.3	17.8	14.3	-0.2	1.7	17.9	14.5	0.0	1.2	0.2
99	17.7	15.0	-0.1	0.6	17.7	15.0	0.0	0.7	17.6	14.8	-0.2	0.7	17.6	15.0	-0.3	0.1	0.1
14	17.2	15.2	-0.5	-0.5	17.4	15.3	-0.3	-0.3	17.5	15.3	-0.1	0.0	17.2	15.2	-0.4	-0.9	0.3
15	16.2	15.0	-1.0	-2.2	16.1	14.8	-1.3	-2.3	16.2	14.8	-1.3	-2.0	16.1	14.9	-1.1	-2.6	0.1
16	16.6	12.0	0.4	-0.8	16.8	12.3	0.7	-0.3	16.9	12.1	0.7	-0.3	16.6	12.0	0.5	-0.8	0.3
17	17.5	14.7	0.9	-0.8	17.4	14.5	0.6	-0.6	17.6	14.7	0.7	-0.4	17.5	14.6	0.9	-0.8	0.2
18	16.5	15.0	-1.0	-1.7	16.2	14.7	-1.2	-1.8	16.6	14.9	-1.0	-1.2	16.5	15.0	-1.0	-1.9	0.4
19	17.2	14.6	0.7	-1.1	14.9	12.3	-1.3	-3.1	17.0	14.2	0.4	-1.0	17.0	14.3	0.5	-1.4	2.3
20	17.2	15.1	0.0	-1.5	17.0	14.9	2.1	-1.4	17.3	15.1	0.3	-0.9	17.0	14.9	0.0	-1.8	0.3
21	17.0	14.7	-0.2	-1.2	17.1	14.8	0.1	-1.2	17.3	15.0	0.0	-1.0	17.0	14.8	0.0	-1.8	0.3
22	17.7	14.5	0.7	-0.4	17.7	14.6	0.6	-0.6	17.8	14.5	0.5	-0.1	17.9	14.7	0.9	-0.7	0.2
7	17.2	14.9	-0.5	-0.6	17.3	15.0	-0.4	-0.2	17.5	15.1	-0.3	0.1	17.2	14.9	-0.7	-0.6	0.3
8	17.4	15.3	0.2	-1.2	17.4	15.3	0.1	-1.0	17.5	15.3	0.0	-0.5	17.3	15.2	0.1	-1.3	0.2
9	17.8	14.7	0.4	-0.3	17.8	14.8	0.4	-0.1	18.0	14.7	0.5	0.3	17.8	14.7	0.5	-0.5	0.2
10	18.7	14.7	0.9	-0.3	18.7	14.8	0.9	0.3	18.7	14.6	0.7	0.2	18.6	14.7	0.8	-0.4	0.1
11	19.1	15.4	0.4	0.4	19.1	15.4	0.4	0.4	19.1	15.3	0.4	0.6	19.0	15.4	0.4	0.0	0.1
12	19.4	15.9	0.3	0.2	19.4	15.9	0.3	0.7	19.5	15.7	0.4	0.7	19.5	15.9	0.5	0.3	0.1
13	19.3	15.2	-0.1	-0.2	19.2	15.2	-0.2	-0.1	19.6	15.4	0.1	0.9	19.5	15.4	0.0	0.3	0.4
23	18.2	14.6	-1.1	-0.7	18.2	14.7	-1.0	-0.6	18.4	14.7	-1.2	-0.4	18.2	14.7	-1.3	-1.1	0.2
24	18.1	14.9	-0.1	-0.5	18.3	15.1	0.1	-0.3	18.0	14.7	-0.4	-0.6	17.8	14.6	-0.4	-1.2	0.5
25	17.0	14.7	-1.1	-1.4	17.1	14.8	-1.2	-1.0	17.1	14.8	-0.9	-1.1	17.1	14.9	-0.7	-1.7	0.1
26	18.2	14.3	1.2	-0.9	18.4	14.6	1.3	-0.9	18.4	14.5	1.3	-0.5	18.4	14.6	1.3	-1.4	0.2
27	18.4	14.6	0.2	-0.8	18.5	14.6	0.1	-0.3	18.5	14.4	0.1	-0.4	18.4	14.5	0.0	-1.1	0.1
28	19.3	15.4	0.9	0.3	19.5	15.5	1.0	0.7	19.5	15.4	1.0	0.7	19.3	15.4	0.9	0.1	0.2
29	18.5	14.7	-0.8	-0.1	18.4	14.6	-1.1	0.2	18.6	14.8	-0.9	0.2	18.4	14.7	-0.9	-0.5	0.2
30	18.7	15.0	0.2	-0.3	18.7	15.0	0.3	0.0	18.8	15.0	0.2	0.3	18.8	15.1	0.4	-0.4	0.1
31	18.5	14.9	-0.2	-0.4	18.5	14.8	-0.2	-0.1	18.6	14.8	-0.2	-0.1	18.6	14.9	-0.2	-0.4	0.1
32	18.8	15.1	0.3	-0.2	19.0	15.2	0.5	0.4	19.3	15.5	0.7	0.5	18.9	15.1	0.3	-0.4	0.5

### Test Point #11



2357 N Early St  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338; Date: 08/27/05

Run	1				2				3				4				
	Time: 00:14:29				Time: 06:13:48				Time: 12:22:22				Time: 18:13:30				
Temp	86				86				89				84				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
33	17.9	14.9	-0.9	0.1	17.6	14.6	-1.4	-0.1	17.9	14.8	-1.4	0.6	17.8	14.7	-1.1	-0.2	0.3
34	18.0	14.7	0.1	-1.1	17.9	14.7	0.3	-0.7	18.1	14.7	0.2	-0.5	17.9	14.7	0.1	-1.2	0.2
35	18.4	14.6	0.4	-0.2	18.5	14.7	0.6	0.0	18.8	14.9	0.7	0.5	18.4	14.6	0.5	-0.6	0.4
36	18.6	14.7	0.2	-0.3	18.3	14.3	-0.2	-0.3	18.5	14.5	-0.3	-0.3	18.4	14.6	0.0	-0.9	0.3
37	19.0	15.0	0.4	0.1	19.0	15.0	0.7	0.5	19.0	14.8	0.5	0.6	19.0	14.9	0.6	0.0	0.0
38	19.2	15.2	0.2	-0.3	19.5	14.5	0.5	0.7	19.4	14.5	0.4	0.4	18.9	14.5	-0.1	-0.7	0.6
39	18.6	14.6	-0.6	-0.6	18.6	14.7	-0.9	-0.2	18.8	14.8	-0.6	-0.2	18.7	15.0	-0.2	-0.8	0.2
40	18.3	14.8	-0.3	-0.2	18.3	14.8	-0.3	0.2	18.4	14.8	-0.4	0.2	18.3	14.8	-0.4	-0.4	0.1
41	18.7	15.0	0.4	-0.2	18.7	15.1	0.4	-0.1	18.6	14.8	0.2	0.0	18.7	15.1	0.4	-0.8	0.1
42	16.5	14.4	-2.2	-1.4	16.5	14.4	-2.2	-1.3	16.3	14.2	-2.3	-1.2	16.6	14.5	-2.1	-1.7	0.3
43	16.5	15.0	0.0	-2.6	16.5	15.1	0.0	-2.2	16.5	15.0	0.2	-2.1	16.5	15.0	-0.1	-2.6	0.0
44	17.5	14.8	1.0	-1.5	17.5	14.8	1.0	-1.5	17.6	14.9	1.1	-1.3	17.6	14.9	1.1	-1.8	0.1
45	17.6	14.9	0.1	-0.7	17.3	14.6	-0.2	-0.9	17.4	14.9	-0.2	-0.6	17.5	15.0	-0.1	-1.2	0.3
46	18.3	15.2	0.7	-1.4	18.3	15.2	1.0	-1.2	18.1	14.5	0.7	-1.1	18.0	14.8	0.5	-1.7	0.3
47	17.3	13.8	-1.0	-1.7	17.3	13.9	-1.0	-1.3	17.5	13.7	-0.6	-0.6	17.2	13.7	-0.8	-2.0	0.3
48	17.9	14.6	0.6	-1.7	17.8	14.5	0.5	-1.5	18.2	14.7	0.7	-1.1	18.0	14.6	0.8	-2.1	0.4
49	18.6	15.3	0.7	0.1	18.6	15.3	0.8	0.6	18.7	15.2	0.5	0.4	18.6	15.2	0.6	-0.1	0.1
50	17.9	14.7	-0.7	-0.2	18.1	14.9	-0.5	0.4	18.3	14.9	-0.4	0.5	18.1	14.8	-0.5	-0.3	0.4
51	17.9	14.7	0.0	-0.1	17.8	14.6	-0.3	0.5	18.2	15.0	-0.1	0.4	18.0	14.8	-0.1	-0.3	0.4
52	18.3	14.9	0.4	0.0	18.5	15.2	0.7	0.5	18.5	15.1	0.3	0.2	18.3	14.9	0.3	-0.1	0.2
53	18.5	14.7	0.2	0.6	18.2	14.4	-0.3	0.8	18.9	14.9	0.4	1.2	18.7	14.9	0.4	0.5	0.7
54	18.1	14.8	-0.4	-0.2	18.3	15.0	0.1	0.5	18.4	15.0	-0.5	0.5	18.4	15.1	-0.3	-0.3	0.3
55	18.4	15.3	0.3	-0.1	18.6	15.4	0.3	0.8	18.8	15.6	0.4	0.6	18.6	15.4	0.2	-0.1	0.4
56	18.2	15.2	-0.2	0.1	18.3	15.3	-0.3	1.3	18.2	15.1	-0.6	0.6	18.1	15.1	-0.5	-0.2	0.2
57	17.8	14.6	-0.4	0.2	17.9	14.7	-0.4	1.1	17.9	14.6	-0.3	0.7	17.8	14.7	-0.3	-0.2	0.1
58	16.0	15.4	-1.8	-1.9	16.1	15.5	-1.8	-0.8	16.0	15.4	-1.9	-1.4	16.0	15.6	-1.8	-2.2	0.1
59	17.2	15.0	1.2	-0.3	17.1	14.9	1.0	0.4	17.1	14.7	1.1	-0.1	16.9	14.7	0.9	-0.9	0.3
60	16.6	14.8	-0.6	-0.7	16.4	14.5	-0.7	-0.4	16.8	14.8	-0.3	0.2	16.6	14.7	-0.3	-0.7	0.4
61	17.0	15.0	0.4	-0.1	16.9	15.0	0.5	0.2	16.8	15.0	0.0	-0.1	16.8	15.0	0.2	-0.2	0.2
62	16.4	14.6	-0.6	-0.9	16.6	14.8	-0.3	0.1	16.4	14.5	-0.4	-0.2	16.3	14.6	-0.5	-1.1	0.3
63	16.7	14.4	0.3	*2	16.6	14.2	0.0	*2	16.8	14.3	0.4	*2	16.6	14.3	0.3	*2	0.2
64	16.7	15.1	0.1	-0.7	16.8	15.3	0.4	0.1	16.7	15.2	-0.1	0.2	16.6	15.3	0.0	-0.8	0.2
65	16.3	15.0	-0.4	-0.8	16.1	14.8	-0.7	-0.8	16.1	14.7	-0.6	-0.9	16.0	14.8	-0.6	-1.5	0.3
66	16.3	15.0	0.0	-1.3	16.4	15.0	0.3	-0.7	16.5	15.0	0.4	-0.4	16.2	14.8	0.2	-1.3	0.3
67	16.2	14.5	-0.1	-0.6	16.1	14.3	-0.3	-0.3	16.2	14.6	-0.3	-0.5	16.2	14.7	0.0	-0.9	0.1
68	16.3	14.4	0.1	-0.6	16.5	14.5	0.4	0.0	16.5	14.5	0.3	-0.1	16.3	14.5	0.1	-0.8	0.2
69	16.5	14.5	0.2	-0.7	16.4	14.4	-0.1	-0.3	16.6	14.3	0.1	0.2	16.4	14.3	0.1	-1.1	0.2
70	16.7	14.9	0.2	0.0	16.9	15.1	0.5	0.6	17.2	15.4	0.6	0.7	16.8	15.0	0.4	-0.2	0.5
71	15.4	14.6	-1.3	-1.5	15.6	14.8	-1.3	-1.0	15.8	15.0	-1.4	-0.7	15.6	15.0	-1.2	-1.5	0.4
72	15.2	14.8	-0.2	-1.9	15.6	15.4	0.0	-0.8	15.2	15.2	-0.6	-0.9	15.4	14.9	-0.2	-1.8	0.4

### Test Point #11

**comcast**

2357 N Early St  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 041338; Date: 08/27/05

Run 1					2				3				4				
Time: 00:14:29					Time: 06:13:48				Time: 12:22:22				Time: 18:13:30				
Temp 86					86				89				84				
Chan	Vid	Aud	Adjct	6 Mth	Vid	Aud	Adjct	6 Mth	Vid	Aud	Adjct	6 Mth	Vid	Aud	Adjct	6 Mth	24 HR
73	15.4	14.5	0.2	-1.6	15.4	14.5	-0.2	-1.2	15.9	14.9	0.7	-0.4	15.9	15.1	0.5	-0.9	0.5
74	16.1	14.9	0.7	0.1	16.1	15.0	0.7	0.1	16.3	14.9	0.4	0.6	16.1	14.9	0.2	-0.3	0.2
75	16.0	16.1	-0.1	0.0	16.2	16.3	0.1	-1.5	16.4	16.1	0.1	-1.4	16.2	16.1	0.1	-2.6	0.4
76	14.2	14.6	-1.8	-1.1	13.9	14.4	-2.3	-1.7	14.5	14.7	-1.9	-0.6	14.2	14.6	-2.0	-1.7	0.6
77	12.8	15.1	-1.4	-2.5	12.9	15.1	-1.0	-2.2	13.1	15.2	-1.4	-1.6	13.0	15.3	-1.2	-2.6	0.3
78	13.6	13.7	0.8	-2.8	12.9	13.0	0.0	-3.4	14.6	14.4	1.5	-0.8	14.4	14.4	1.4	-1.5	1.7
Min Value	12.8	12.0	-2.2	-2.8	12.9	12.3	-2.3	-3.4	13.1	12.1	-2.3	-2.1	13.0	12.0	-2.1	-2.6	0.0
Max Value	19.4	16.1	1.2	1.5	19.5	16.3	2.1	1.3	19.6	16.1	1.5	1.7	19.5	16.1	1.4	1.2	2.3

**Notes:**

- \*1 - Station off air - standby by carrier in use
- \*2 - New channel addition there is no 6 month reference

**Comcast**<sup>™</sup>

*Alexandria, Virginia  
Winter 2006  
Proof of  
Performance*



Comcast of Alexandria, VA performed an FCC Proof-of-Performance test during the period of January 1<sup>st</sup> through February 16<sup>th</sup>, 2006.

The purpose of the test was to adhere to FCC requirements as set forth in the Federal Code of Regulations, Subpart K, Sections 76.601 and 76.605. The documents that follow are the results of the tests, as well as the requirements set forth by the FCC.





## System Test Data

System: Comcast Location: Alexandria, Va.

System Community ID#: VA0220

Physical System ID#: 004923

### Statement of Qualifications

#### Kelvin Webb: Technical Operations Manager

Experience: Kelvin has 21 years professional experience in the communications field, including, headend operations, fiber, systems network engineering and design. Experience includes over 11 years management of diverse projects and staff sizes varying from 18-20. For over four years I have been the Technical Operations Manager in the Northern Virginia Area.

#### Bobby Lane Title: Chief Engineer Alexandria / Arlington

Experience: Bobby has been in CATV for 25 years, with 5 years as technical manager. SCTE member since 1992. FCC proof testing 1991-2001 with Jones Communications and Comcast. NCTI Graduate with eight courses completed. Worked in the field for 10 years and in the Headend / field for 15 years.

#### Greg Harmon Title: Senior System Technician

Experience: Greg has been in CATV for 24 years, during which he has been a Service Technician for 3 years and a System Technician for 17 years. He has completed the NCTI Master Technician program. He has participated in 20 FCC Proof of Performance tests.

#### Previn Coe Title: System Technician

Experience: Previn has been a CATV Technician for 8 Years During which he has been a Quality Control Technician for 1 year then a Service Technician for 1 year then promoted to System Technician for the last 6 years. He has completed the NCTI Installer and Service Technician Courses. He has participated in 10 FCC Proof of Performance tests.



**Test Point Locations**

Test Point #1  
85 S. Bragg St.

Test Point #2  
Tower Ct. & Whitting St.

Test Point #3  
1 N. Donelson St.

Test Point #4  
Kenwood St. & Fern St.

Test Point #5  
1121 Allison St.

Test Point #6  
901 N. Kemper St.

Test Point #7  
528 Bellvue Pl.

Test Point #8  
5109 Gardner Dr.

Test Point #9  
418 Bashford Ln.

Test Point #10  
5465 Colfax Ave.

Test Point #11  
2357 N early St.



**List of Equipment**

<u>Equipment</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Serial #</u>	<u>Last cal</u>
Cybertek Examiner	Com Sonics	101129-001	N/A	N/A
Spectrum Analyzer	Hewlett-Packard	8591C	3916A04384	10/17/05
Tunable Filter	Trilithic	VF-4-88	9330002	N/A
Pre-Amplifier	Hewlett-Packard	85905A	6093-0551	N/A
Signal Level Meter	Acterna	SDA-5000	4340570	04/01/05
Converter Box	Scientific Atlanta	8511300	GF505BFDN	N/A



## Testing Procedures

### **C/N, CTB, CSO and HUM:**

A 100' RG-6 drop was attached to a normal subscriber tap and connected to a Converter Box. A jumper was then connected from the Converter Box to the input of the pre-amp, which was connected to the RF input of the spectrum analyzer. The measurements were done using the Cybertek Examiner test gear in the headend to perform testing without interrupting customer services. The Cybertek examiner either inserts a VITS or removes a line of video depending on the test being performed.

### **4.5 Audio Difference:**

This measurement was made by the spectrum analyzer with the entire channel intact.

### **In-band Frequency Response:**

This test was done with the RG-6 drop connected to the converter box, which was connected to the RF input of the spectrum analyzer. At the headend, the Cybertek Examiner inserted the appropriate VITS.

### **24-Hour Level Test:**

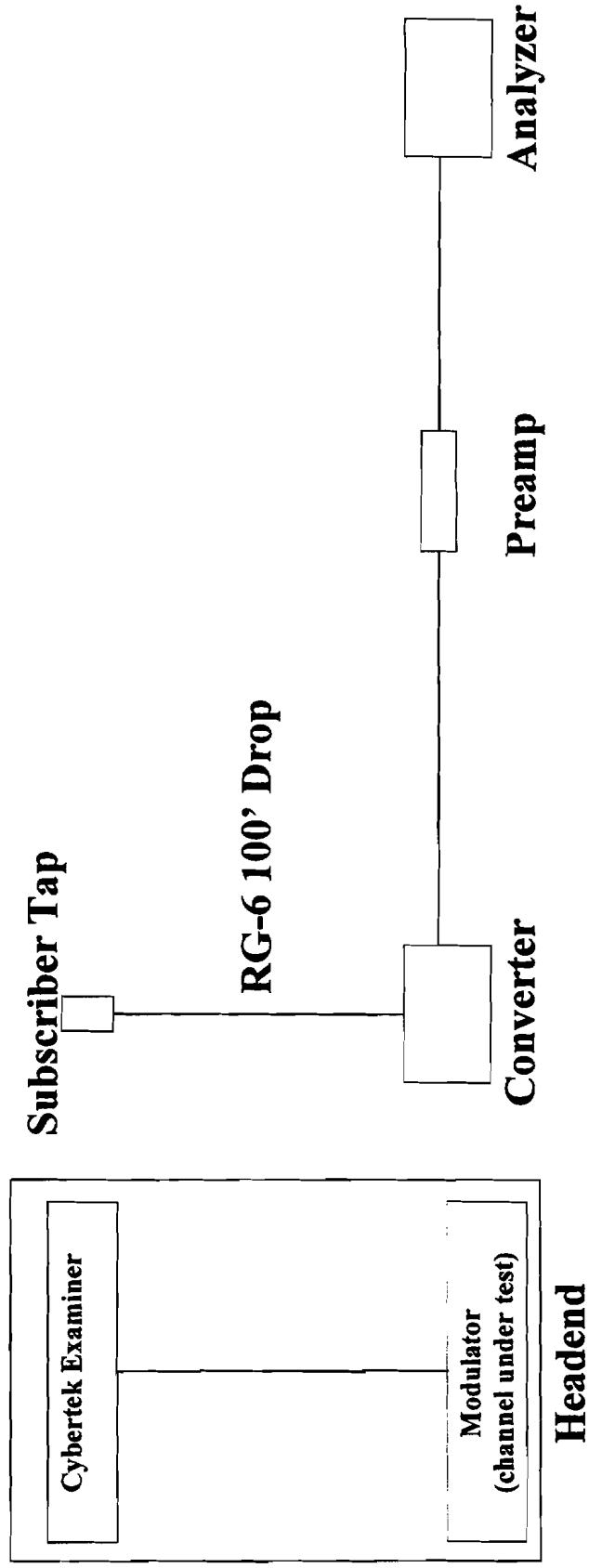
This test used the 100' RG-6 drop attached to the RF input of a Wavetek SDA5000 signal level meter.

### **Headend Color Test**

These tests were conducted with a VITS inserter connected to the modulator under test using the FCC composite test signal. A jumper was then run from the headend test point to a signal down converter, which was connected to a precision demodulator. The video output of the precision demodulator was then connected to the video input on a VM700A. All color tests were done using the VM700A.

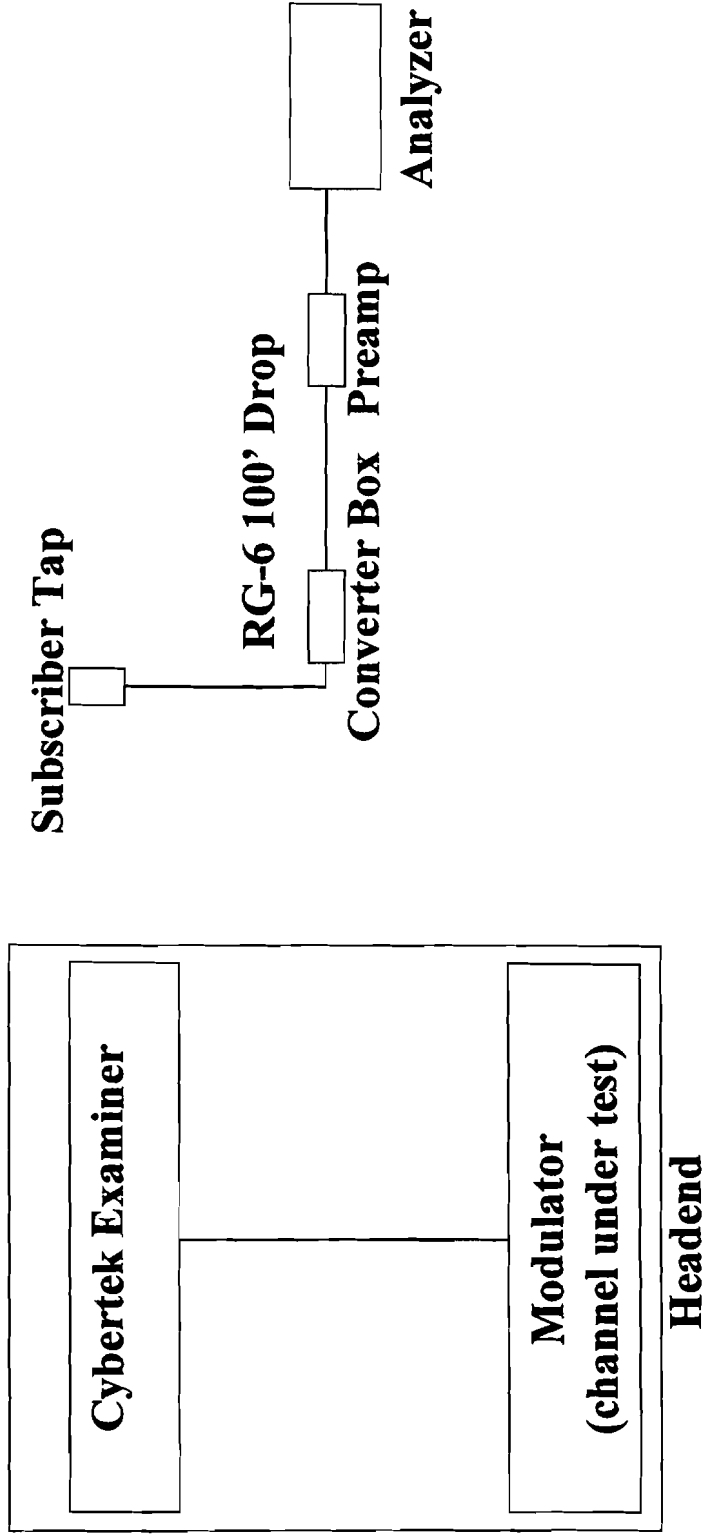


**Figure 1**  
C/N, CTB, CSO



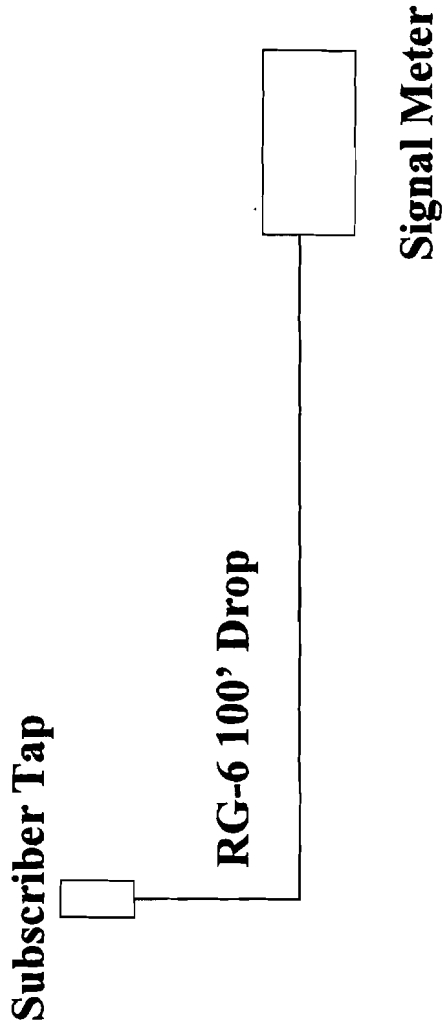


**Figure 2**  
**In-band Frequency Response, Hum and 4.5 Audio Diff**



# Comcast

## Figure 3 24 Hour Level Test





## **Distortion Measurements**

Comcast of Alexandria, VA performed distortion tests at 11 test points, as required by the FCC (76.601 (c)(1)), which states that at least 6 test points for the first 12,500 subscribers, adding 1 test point for each additional 12,500 subscribers. Comcast of Alexandria's subscriber count is 49,199 as of 01/01/06. All of Comcast's test points are distributed through the outer edges of the county at its farthest node locations, with the test points being at the end-of-line. Which meets the requirement that all geographic areas be represented and at least 1/3 of the test points being the most distant points in the system. At each test point, 9 channels were tested for distortions as required by the FCC (76.601(c)(2)), which states at least 4 channels must be tested at each test point, adding 1 channel for each 100 MHz block above 100 MHz. Comcast of Arlington's analog bandwidth is 550 MHz.

### **Current FCC distortion specifications are as follows:**

The C/N measurement (76.605 (a)(7)(ii)) shall not be less than 43dB.

The CTB, CSO and X-mod measurements (76.605 (a)(8)(I)) shall not be less than 51dB.

The HUM measurement (76.605(a)(10)) shall not exceed 3.0%.

The Aural Carrier Difference (4.5 Difference)(76.605 (a)(2)) must be 4.5 MHz above the Visual Carrier, +/- 5KHz.

The In-Channel Frequency Response (In-Band Frequency Response) (76.605 (a)(6)) should not vary by more than +/- 2dB.



**Test Point #1**



85 S. Bragg St.  
Alexandria, VA

FCC Distortion Measurements

EQUIPMENT USED:

H/P 8591C, S/N 3916A04384

Pre-Amplifier 85905A, S/N 6093-0551

Cybertec Examiner 101129-001

CONVERTER BOX SA 8511, S/N GF505BFDN

Date: 02/16/06

Time: 10:32 am

Temp:42

CH.	FREQ. RSP 2dB Max	HUM% 3% Max	CSO 51dB Min	CTB 51dB Min	C/N 43dB Min	4.5 DIFF 5KHz Max
2	0.8	1.9	73.5	67.5	46.9	4.5000
95	0.2	1.1	68.3	62	45.7	4.5000
21	0.5	1.3	67.3	62.9	49.2	4.5000
8	0.8	0.9	69.1	59.5	48	4.5000
28	1.7	1.1	68.8	63	50.2	4.5000
32	0.6	1.1	73.8	64.6	49.4	4.5000
47	0.6	0.6	71.7	57.8	49.2	4.5003
58	1.2	1.8	70.7	62.1	47.9	4.5001
72	1	1	71.5	62.2	45.2	4.4999
Minimum values:	0.2	0.6	67.3	57.8	45.2	4.4999
Maximum values:	1.7	1.9	73.8	67.5	50.2	0.0003

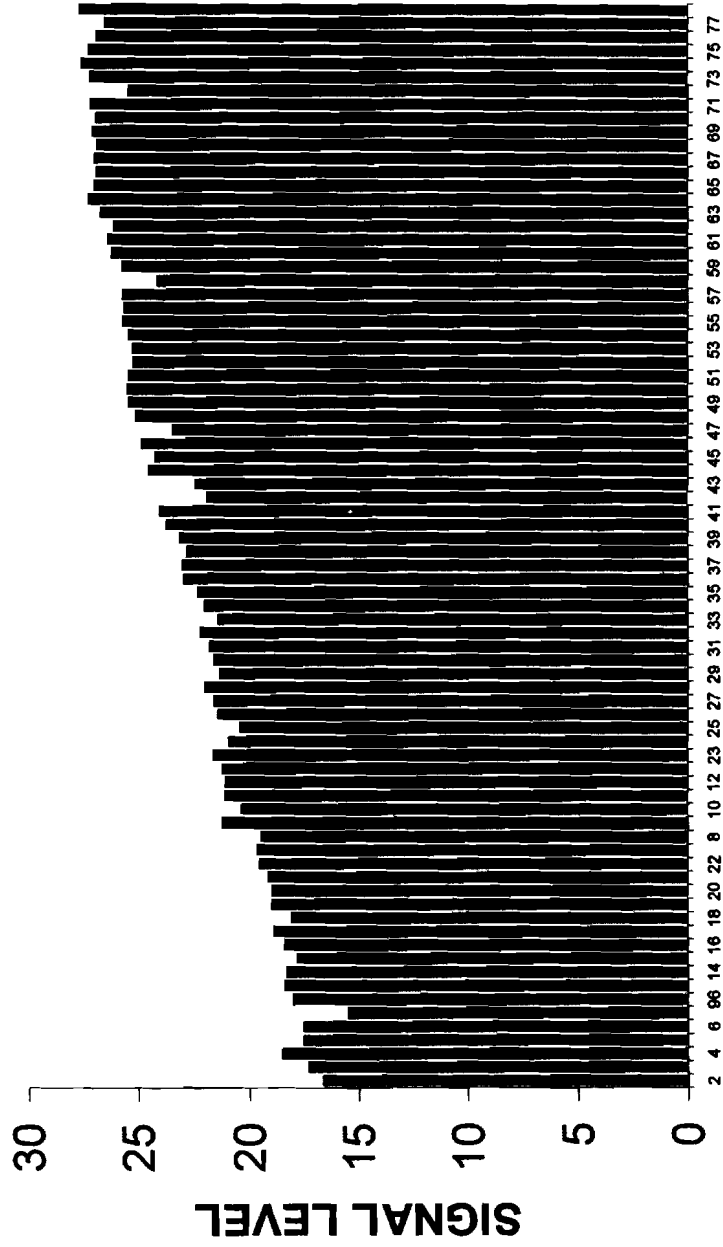


### Signal Level Variance

The ranges allowed by the FCC (76.605 (a)(4)(i,ii,iii)) are as follows:

4. Each level shall not vary by more than 8dB within any 6-month interval.
  - i. Adjacent channel level to be within 3dB of each other.
  - ii. Visual signal level on any other channel on a cable television system should be less than 10dB for systems of up to 300 MHz; for each additional 100 MHz, add 1dB to maximum difference level.
  - iii. A maximum level such that signal degradation due to overload in the subscriber's Receiver or terminal does not occur.

TEST POINT #1



CHANNEL

The maximum signal level is 28.1 dBmV

The maximum adjacent channel level difference is 2.8 dBmV  
The maximum level difference between the highest and lowest is 12.5 dBmV  
The maximum six month variance is 6.5 dBmV

**Test Point #1**



85 S. Bragg St.

24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571

Date: 02/18/06

Run	1				2				3				4				
	Time: 01:26:37				Time: 07:26:06				Time: 13:37:38				Time: 19:36:09				
Temp	33				30				37				35				
Chan	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	24 HR Vid Diff
2	16.6	13.4		-0.1	16.7	13.5		-0.1	16.7	13.3		-0.2	16.8	13.5		0.1	0.2
3	17.3	14.8	0.7	0.9	17.2	14.8	0.5	0.8	17.4	14.9	0.7	1.0	17.4	14.9	0.6	1.1	0.2
4	18.5	15.5	1.2	2.7	17.4	14.4	0.2	1.6	18.9	15.8	1.5	3.1	17.8	14.7	0.4	1.9	1.5
5	17.5	15.4	-1.0	1.3	17.6	15.4	0.2	1.5	17.0	14.7	-1.9	0.9	17.7	15.3	-0.1	1.5	0.7
6	17.5	15.1	0.0	1.2	17.5	15.0	-0.1	1.4	17.8	15.0	0.8	1.8	17.7	15.1	0.0	1.3	0.3
95	15.5	15.5	-2.0	-2.0	15.4	15.4	-2.1	-2.1	15.6	15.3	-2.2	-1.9	15.6	15.0	-2.1	-1.8	0.2
96	18.0	14.9	2.5	0.2	17.8	14.6	2.4	0.1	18.2	14.9	2.6	0.5	18.0	14.7	2.4	0.4	0.4
99	18.4	15.0	0.4	1.2	18.5	15.0	0.7	1.3	18.8	15.0	0.6	1.6	18.7	15.0	0.7	1.5	0.4
14	18.3	15.3	-0.1	1.1	18.4	15.4	-0.1	1.3	18.3	15.0	-0.5	1.3	18.3	15.0	-0.4	1.3	0.1
15	17.8	14.9	-0.5	1.4	17.9	15.0	-0.5	1.3	18.1	15.0	-0.2	1.6	18.0	14.8	-0.3	1.5	0.3
16	18.4	15.3	0.6	2.0	18.6	15.6	0.7	2.4	18.7	15.4	0.6	1.9	18.6	15.6	0.6	3.8	0.3
17	18.9	15.1	0.5	1.4	18.9	15.0	0.3	1.5	19.3	15.2	0.6	1.7	19.2	15.1	0.6	1.7	0.4
18	18.1	14.9	-0.8	1.5	18.3	15.1	-0.6	1.7	18.5	15.1	-0.8	2.0	18.6	15.3	-0.6	2.1	0.5
19	19.0	14.9	0.9	2.2	19.0	14.9	0.7	4.1	19.2	14.8	0.7	2.3	19.0	14.7	0.4	2.0	0.2
20	19.0	14.9	0.0	2.0	19.0	14.9	0.0	1.9	19.5	15.2	0.3	2.6	19.4	15.1	0.4	2.4	0.5
21	19.2	14.4	0.2	1.8	19.2	14.4	0.2	1.6	19.8	14.7	0.3	2.4	19.6	14.6	0.2	2.5	0.6
22	19.6	14.8	0.4	1.6	19.5	14.7	0.3	1.5	19.8	14.8	0.0	1.8	19.9	14.7	0.3	1.9	0.4
7	19.7	14.3	0.1	2.1	20.1	14.6	0.6	2.3	20.6	14.8	0.8	3.1	19.9	14.1	0.0	2.3	0.9
8	19.5	14.7	-0.2	2.1	19.5	14.7	-0.6	2.2	19.8	14.7	-0.8	2.4	19.7	14.6	-0.2	2.4	0.3
9	21.3	15.5	1.8	3.3	20.8	14.8	1.3	2.9	21.0	14.8	1.2	3.2	21.5	15.4	1.8	3.5	0.7
10	20.4	14.5	-0.9	1.8	20.6	14.7	-0.2	2.2	21.0	14.8	0.0	2.6	21.0	14.7	-0.5	2.5	0.6
11	21.2	15.2	0.8	2.3	21.0	15.0	0.4	1.9	21.4	15.0	0.4	2.3	21.2	14.9	0.2	2.0	0.4
12	21.2	15.1	0.0	2.1	21.1	15.0	0.1	2.0	21.4	15.0	0.0	2.2	21.2	14.8	0.0	2.0	0.3
13	21.3	15.1	0.1	2.0	21.4	15.0	0.3	2.2	21.6	15.1	0.2	2.4	21.6	14.9	0.4	2.3	0.3
23	21.7	15.6	0.4	3.4	21.8	15.5	0.4	3.4	22.1	15.6	0.5	3.7	22.0	15.6	0.4	3.8	0.4
24	21.0	14.8	-0.7	2.5	20.9	14.5	-0.9	2.3	21.5	14.9	-0.6	3.1	21.5	14.9	-0.5	2.9	0.6
25	20.5	15.3	-0.5	3.2	20.1	14.9	-0.8	2.9	20.7	15.2	-0.8	3.2	20.7	15.1	-0.8	3.4	0.6
26	21.5	15.4	1.0	2.9	21.3	15.2	1.2	3.2	21.7	15.3	1.0	3.4	21.7	15.4	1.0	3.2	0.4
27	21.7	15.0	0.2	3.3	21.8	14.9	0.5	3.2	22.0	14.9	0.3	3.3	22.0	14.8	0.3	3.1	0.3
28	22.1	15.4	0.4	2.4	22.0	15.5	0.2	2.3	22.3	15.4	0.3	2.7	22.1	15.1	0.1	2.4	0.3
29	21.4	15.0	-0.7	2.7	21.6	15.2	-0.4	2.8	22.0	15.2	-0.3	3.4	21.9	15.1	-0.2	3.2	0.6
30	21.7	15.0	0.3	2.8	21.8	15.2	0.2	2.9	22.0	15.1	0.0	3.0	21.9	15.0	0.0	3.0	0.3
31	21.9	14.7	0.2	2.8	22.0	14.7	0.2	3.2	22.3	14.7	0.3	3.3	22.0	14.5	0.1	2.9	0.4
32	22.3	15.1	0.4	2.9	22.4	15.1	0.4	3.2	22.7	15.2	0.4	3.1	22.4	14.9	0.4	2.8	0.4

**Test Point #1**

**Comcast**

85 S. Bragg St.

24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571

Date: 02/18/06

Run	1				2				3				4				
	Time: 01:26:37				Time: 07:26:06				Time: 13:37:38				Time: 19:36:09				
Temp	33				30				37				35				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
33	21.5	14.7	-0.8	2.7	21.9	15.2	-0.5	2.9	21.9	15.0	-0.8	2.9	22.0	15.1	-0.4	3.2	0.5
34	22.1	14.6	0.6	3.4	22.2	14.7	0.3	3.6	22.6	14.8	0.7	3.9	22.4	14.5	0.4	3.7	0.5
35	22.4	14.6	0.3	2.7	22.4	14.6	0.2	2.9	22.9	14.8	0.3	3.1	22.6	14.4	0.2	2.9	0.5
36	23.0	14.4	0.6	2.8	22.9	14.1	0.5	2.9	23.3	14.6	0.4	3.2	22.9	14.2	0.3	2.8	0.4
37	23.1	15.2	0.1	2.9	23.1	15.2	0.2	3.0	23.6	15.3	0.3	3.1	23.6	15.3	0.7	3.4	0.5
38	22.9	14.8	-0.2	2.4	22.9	14.8	-0.2	2.8	23.6	15.2	0.0	3.1	23.5	15.0	-0.1	3.1	0.7
39	23.2	14.4	0.3	2.7	23.2	14.2	0.3	2.8	23.6	14.4	0.0	3.2	23.4	14.3	-0.1	3.0	0.4
40	23.8	14.9	0.6	3.3	23.8	15.0	0.6	3.1	24.0	14.9	0.4	3.4	24.0	14.8	0.6	3.4	0.2
41	24.1	15.6	0.3	3.3	24.1	15.6	0.3	2.9	24.1	15.3	0.1	3.0	24.1	15.2	0.1	2.9	0.0
42	22.0	14.6	-2.1	3.3	21.9	14.5	-2.2	3.0	22.2	14.5	-1.9	3.3	22.2	14.5	-1.9	3.3	0.3
43	22.5	15.2	0.5	3.3	22.4	15.0	0.5	3.0	22.9	15.3	0.7	3.4	22.7	15.0	0.5	3.3	0.5
44	24.6	15.2	2.1	4.4	24.6	15.1	2.2	4.2	24.9	15.2	2.0	4.4	24.8	14.9	2.1	4.4	0.3
45	24.3	14.6	-0.3	4.0	24.4	14.8	-0.2	3.7	24.7	14.9	-0.2	4.3	24.8	14.8	0.0	4.7	0.5
46	24.9	15.1	0.6	3.5	24.7	14.9	0.3	3.4	25.0	15.0	0.3	3.5	25.2	15.0	0.4	4.0	0.5
47	23.5	14.8	-1.4	2.9	23.8	15.0	-0.9	3.0	24.0	15.3	-1.0	3.3	24.3	15.4	-0.9	3.7	0.8
48	25.2	14.9	1.7	3.5	25.1	14.8	1.3	3.5	25.4	14.8	1.4	3.9	25.4	14.8	1.1	3.7	0.3
49	25.5	15.0	0.3	3.3	25.5	15.1	0.4	3.0	25.6	15.1	0.2	3.2	25.7	14.9	0.3	3.4	0.2
50	25.6	14.9	0.1	3.6	25.6	14.9	0.1	3.7	25.9	15.1	0.3	3.9	25.8	14.5	0.1	3.9	0.3
51	25.5	15.0	-0.1	3.6	25.5	14.9	-0.1	3.7	25.7	15.0	-0.2	3.7	25.9	15.0	0.1	4.1	0.4
52	25.3	14.8	-0.2	3.1	25.6	15.1	0.1	3.3	25.6	14.9	-0.1	3.5	25.5	14.6	-0.4	3.3	0.3
53	25.3	14.3	0.0	2.9	25.4	14.4	-0.2	3.3	25.6	14.6	0.0	3.5	25.7	14.4	0.2	3.2	0.4
54	25.5	14.0	0.2	3.5	25.5	13.9	0.1	3.5	25.9	14.2	0.3	3.8	25.9	14.1	0.2	4.0	0.4
55	25.8	14.7	0.3	3.3	25.8	14.4	0.3	3.5	26.0	14.7	0.1	3.4	25.9	14.5	0.0	3.5	0.2
56	25.7	14.3	-0.1	3.1	26.0	14.8	0.2	3.3	26.1	14.7	0.1	3.5	26.1	14.5	0.2	3.4	0.4
57	25.8	14.2	0.1	3.4	25.8	14.1	-0.2	3.3	26.0	14.1	-0.1	3.4	26.1	14.1	0.0	3.5	0.3
58	24.2	14.9	-1.6	3.4	24.4	15.0	-1.4	3.7	24.6	14.9	-1.4	3.8	24.6	14.9	-1.5	3.9	0.4
59	25.8	14.7	1.6	3.4	25.6	14.4	1.2	3.4	26.0	14.6	1.4	3.8	26.0	14.4	1.4	4.0	0.4
60	26.3	14.9	0.5	4.4	26.2	14.7	0.6	4.2	26.5	15.0	0.5	4.6	26.7	15.1	0.7	4.9	0.5
61	26.5	15.7	0.2	4.4	26.6	15.8	0.4	4.5	26.7	15.8	0.2	4.7	26.7	15.6	0.0	4.7	0.2
62	26.2	14.7	-0.3	4.4	26.3	14.7	-0.3	4.4	26.6	14.9	-0.1	4.8	26.8	15.0	0.1	5.0	3.0
63	26.8	14.8	0.6	4.0	26.8	14.8	0.5	3.9	27.4	15.1	0.8	4.5	27.2	14.7	0.4	4.4	0.6
64	27.4	15.5	0.6	4.7	27.4	15.5	0.6	4.7	27.6	15.7	0.2	4.9	27.9	15.7	0.7	5.4	0.5
65	27.1	15.2	-0.3	4.9	27.0	15.1	-0.4	4.7	27.3	15.2	-0.3	5.2	27.3	14.9	-0.6	5.1	0.3
66	27.0	14.9	-0.1	4.3	27.1	15.0	0.1	4.6	27.3	15.1	0.0	4.7	27.5	15.1	0.2	4.9	0.5
67	27.1	15.5	0.1	4.1	27.0	15.2	-0.1	4.3	27.3	15.4	0.0	4.3	27.3	15.2	-0.2	4.3	0.3
68	27.0	14.7	-0.1	3.5	27.0	14.8	0.0	3.6	27.4	14.9	0.1	4.0	27.3	14.7	0.0	3.9	0.4
69	27.2	14.3	0.2	3.7	27.1	13.8	0.1	3.6	27.5	14.7	0.1	3.9	27.3	14.2	0.0	3.7	0.4
70	27.0	14.1	-0.2	3.3	26.9	14.0	-0.2	3.4	27.1	14.1	-0.4	3.4	27.2	14.1	-0.1	3.6	0.3
71	27.3	14.7	0.3	4.6	27.3	14.8	0.4	4.7	27.5	14.8	0.4	4.7	27.6	14.8	0.4	4.8	0.3
72	25.5	15.2	-1.8	3.1	24.6	14.3	-2.7	2.0	24.7	14.2	-2.8	2.2	24.9	14.3	-2.7	2.1	0.9

**Test Point #1**

**Comcast**

85 S. Bragg St.

24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571

Date: 02/18/06

Run	1				2				3				4				
	Time: 01:28:37				Time: 07:28:06				Time: 13:37:38				Time: 19:38:09				
Temp	33				30				37				35				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
73	27.3	14.9	1.8	4.6	27.1	14.6	2.5	4.6	27.5	15.1	2.8	4.7	27.6	15.0	2.7	4.7	0.5
74	27.7	15.0	0.4	4.3	27.8	15.0	0.7	4.1	27.9	14.9	0.4	4.2	28.0	14.9	0.4	4.4	0.3
75	27.4	15.5	-0.3	3.8	27.4	15.6	-0.4	3.7	27.5	15.6	-0.4	3.8	27.6	15.6	-0.4	3.9	0.2
76	27.0	14.8	-0.4	5.1	27.1	14.8	-0.3	5.2	27.2	14.9	-0.3	5.1	27.4	15.0	-0.2	5.4	0.4
77	26.6	16.8	-0.4	5.5	26.5	16.7	-0.6	5.5	26.8	16.9	-0.4	5.8	26.7	16.8	-0.7	6.0	0.3
78	27.8	15.5	0.6	5.5	27.9	14.9	0.8	6.2	28.1	15.1	0.6	6.0	28.1	15.1	0.8	6.5	0.3
Min Value	15.5	13.4	-2.1	-2.0	15.4	13.5	-2.7	-2.1	15.6	13.3	-2.8	-1.9	15.6	13.5	-2.7	-1.8	0.0
Max Value	27.8	16.8	2.5	5.5	27.9	16.7	2.5	6.2	28.1	16.9	2.8	6.0	28.1	16.8	2.7	6.5	3.0

Notes:

\*1 - Station off air - standby by carrier in use

\*2 - New channel addition there is no 6 month reference



## Distortion Measurements

Comcast of Alexandria, VA performed distortion tests at 11 test points, as required by the FCC (76.601 (c)(1)), which states that at least 6 test points for the first 12,500 subscribers, adding 1 test point for each additional 12,500 subscribers. Comcast of Alexandria's subscriber count is 49,199 as of 01/01/06. All of Comcast's test points are distributed through the outer edges of the county at its farthest node locations, with the test points being at the end-of-line. Which meets the requirement that all geographic areas be represented and at least 1/3 of the test points being the most distant points in the system. At each test point, 9 channels were tested for distortions as required by the FCC (76.601(c)(2)), which states at least 4 channels must be tested at each test point, adding 1 channel for each 100 MHz block above 100 MHz. Comcast of Arlington's analog bandwidth is 550 MHz.

### **Current FCC distortion specifications are as follows:**

The C/N measurement (76.605 (a)(7)(ii)) shall not be less than 43dB.

The CTB, CSO and X-mod measurements (76.605 (a)(8)(I)) shall not be less than 51dB.

The HUM measurement (76.605(a)(10)) shall not exceed 3.0%.

The Aural Carrier Difference (4.5 Difference)(76.605 (a)(2)) must be 4.5 MHz above the Visual Carrier, +/- 5KHz.

The In-Channel Frequency Response (In-Band Frequency Response) (76.605 (a)(6)) should not vary by more than +/- 2dB.

## Test Point #2

**Comcast**

Tower Ct. & Whitting St.

Alexandria, VA

FCC Distortion Measurements

EQUIPMENT USED:

H/P 8591C, S/N 3916A04384

Pre-Amplifier 85905A, S/N 6093-0551

Cybertec Examiner 101129-001

CONVERTER BOX SA 8511, S/N GF505BFDN

Date: 02/15/06

Time: 11:00 am

Temp: 43

CH.	FREQ. RSP 2dB Max	HUM% 3% Max	CSO 51dB Min	CTB 51dB Min	C/N 43dB Min	4.5 DIFF 5KHz Max
2	0.4	1.6	68.5	67.2	47.1	4.5000
95	0.3	1	65.5	65.4	46.6	4.5000
21	0.4	1.3	71.1	65.2	49.8	4.5000
8	0.8	1.1	68.8	69.3	49	4.5000
28	0.8	1.1	72.3	70.7	51.4	4.5000
32	0.5	1.1	68	78.5	51.3	4.4999
47	1	0.7	74.3	66.8	51	4.5003
58	0.9	0.9	69.9	67.7	51	4.4999
72	0.8	1.1	67.9	69.5	47.5	4.5000
Minimum values:	0.3	0.7	65.5	65.2	46.6	4.4999
Maximum values:	1	1.6	74.3	78.5	51.4	4.5003



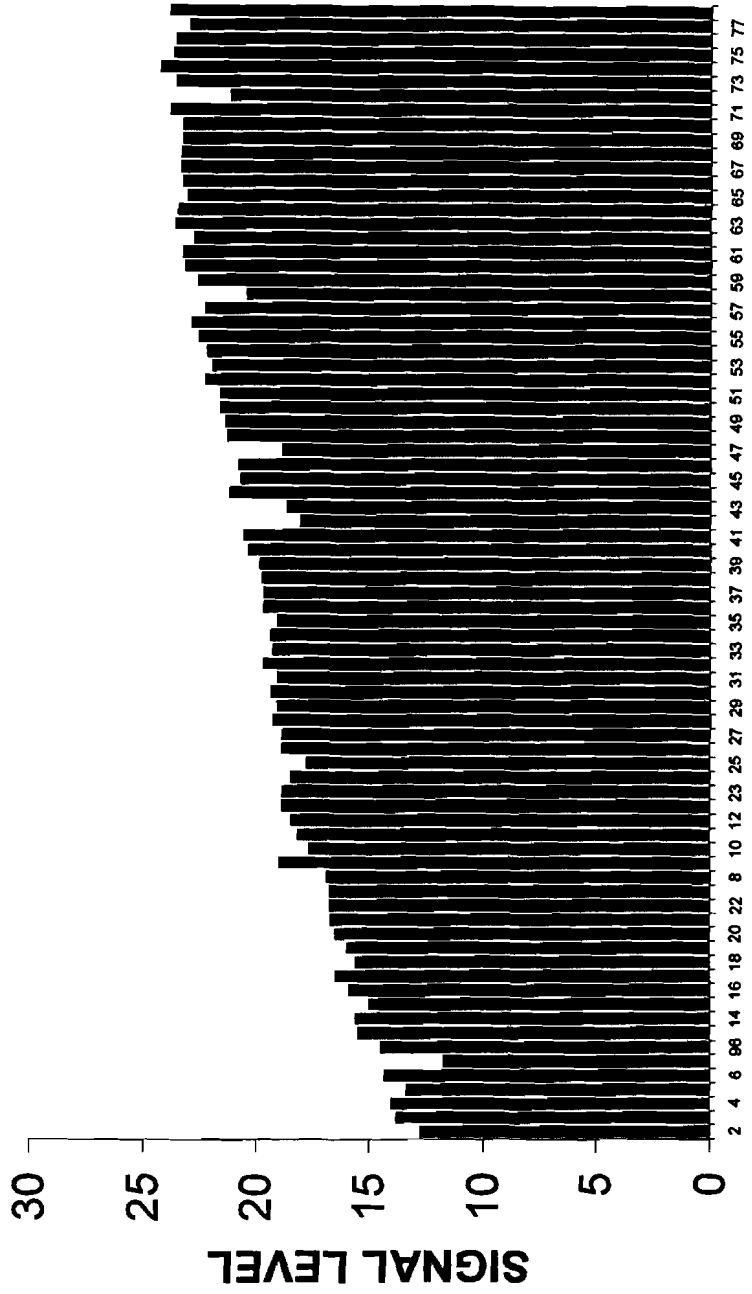


### Signal Level Variance

The ranges allowed by the FCC (76.605 (a)(4)(i,ii,iii)) are as follows:

4. Each level shall not vary by more than 8dB within any 6-month interval.
  - i. Adjacent channel level to be within 3dB of each other.
  - ii. Visual signal level on any other channel on a cable television system should be less than 10dB for systems of up to 300 MHz; for each additional 100 MHz, add 1dB to maximum difference level.
  - iii. A maximum level such that signal degradation due to overload in the subscriber's Receiver or terminal does not occur.

**TEST POINT #2**



**CHANNEL**

■ The maximum signal level is 24.3 dBmV

The maximum adjacent channel level difference is 2.8 dBmV  
The maximum level difference between the highest and lowest is 12.5 dBmV  
The maximum six month variance is 6.3 dBmV

**Test Point #2**



Tower Ct. & S. Whitting St.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571

Date: 02/18/06

Run	1				2				3				4				
	Time: 01:18:35				Time: 07:21:11				Time: 13:24:44				Time: 19:25:35				
Temp	34				31				37				35				
Chan	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	24 HR Vid Diff
2	12.8	13.3		-0.1	12.9	13.2		0.0	12.9	13.2		0.0	12.6	15.2		-0.4	0.3
3	13.8	14.9	1.0	1.0	13.9	14.8	1.0	1.0	13.9	14.9	1.0	0.9	13.9	14.8	1.3	1.0	0.1
4	14.0	14.8	0.2	1.9	14.4	15.1	0.5	2.5	14.9	15.5	1.0	2.7	14.5	15.0	0.6	2.5	0.9
5	13.4	14.6	-0.6	1.0	13.3	14.7	-1.1	0.8	13.8	15.0	-1.1	1.4	14.1	15.1	-0.4	1.7	0.8
6	14.4	15.2	1.0	1.7	14.2	15.0	0.9	1.3	14.4	15.1	0.6	1.6	14.4	15.1	0.3	1.3	0.2
95	11.8	14.8	-2.6	-2.0	13.6	15.6	-0.6	-0.1	13.8	14.2	-0.6	-0.2	14.1	15.1	-0.3	0.1	2.3
96	14.5	14.6	2.7	0.4	14.6	14.8	1.0	0.4	14.7	14.7	0.9	0.4	14.6	14.6	0.5	0.5	0.2
99	15.5	14.8	1.0	1.4	15.5	14.9	0.9	1.6	15.8	14.9	1.1	1.4	15.7	14.8	1.1	1.6	0.3
14	15.6	15.1	0.1	1.3	15.5	15.0	0.0	1.3	15.7	15.0	-0.1	1.2	15.7	15.0	0.0	1.4	0.2
15	15.0	15.0	-0.6	1.7	14.8	14.8	-0.7	1.4	15.1	14.9	-0.6	1.5	15.0	14.8	-0.7	1.4	0.3
16	15.9	15.7	0.9	1.8	15.8	15.8	1.0	2.6	16.5	15.5	1.4	2.4	15.8	15.5	0.8	2.5	0.7
17	16.5	15.3	0.6	1.7	16.3	15.1	0.5	1.6	16.4	15.1	-0.1	2.0	16.4	15.2	0.6	1.7	0.2
18	15.6	14.9	-0.9	2.0	15.8	15.2	-0.5	2.2	15.8	15.1	-0.6	1.8	15.8	14.9	-0.6	1.9	0.2
19	16.0	14.7	0.4	1.9	16.1	14.8	0.3	4.3	16.2	14.7	0.4	2.3	15.9	14.5	0.1	1.9	0.3
20	16.5	15.0	0.5	2.1	16.6	15.1	0.5	2.0	16.7	15.1	0.5	2.3	16.7	15.1	0.8	2.1	0.2
21	16.7	14.5	0.2	2.0	16.7	14.5	0.1	1.9	17.1	14.8	0.4	2.4	17.0	14.6	0.3	2.1	0.4
22	16.8	14.8	0.1	1.6	16.9	14.9	0.2	1.6	17.2	15.0	0.1	2.0	17.2	14.9	0.2	1.9	0.4
7	16.8	14.0	0.0	2.1	17.2	14.4	0.3	2.4	17.7	14.7	0.5	2.9	17.8	14.9	0.6	2.9	1.0
8	16.9	14.6	0.1	2.3	16.9	14.5	-0.3	2.2	17.3	14.9	-0.4	2.5	17.1	14.8	-0.7	2.3	0.4
9	19.0	15.7	2.1	3.6	18.9	15.6	2.0	3.5	17.5	14.0	0.2	1.9	18.8	15.4	1.7	3.4	1.5
10	17.7	14.5	-1.3	1.8	18.0	14.8	-0.9	2.2	18.1	14.6	0.6	2.4	18.1	14.7	-0.7	2.2	0.4
11	18.2	14.7	0.5	1.8	18.3	14.8	0.3	1.8	18.5	14.8	0.4	2.1	18.5	14.9	0.4	2.0	0.3
12	18.5	14.9	0.3	1.6	18.5	14.7	0.2	2.0	18.8	14.9	0.3	1.9	18.8	15.0	0.3	2.0	0.3
13	18.9	15.2	0.4	2.1	18.6	14.8	0.1	1.9	19.0	15.0	0.2	2.3	19.0	15.0	0.2	4.8	0.4
23	18.9	15.5	0.0	3.0	18.9	15.5	0.3	3.1	19.5	15.8	0.5	3.6	19.1	15.4	0.1	3.4	0.6
24	18.5	14.7	-0.4	2.7	18.1	14.3	-0.8	2.6	18.8	14.7	-0.7	3.5	18.8	14.8	-0.3	3.3	0.7
25	17.8	15.1	-0.7	3.7	17.7	14.9	-0.4	2.8	18.1	15.1	-0.7	3.3	17.9	14.8	-0.9	2.8	0.4
26	18.9	15.4	1.1	2.9	18.9	15.3	1.2	3.0	19.1	15.4	1.0	3.1	19.0	15.3	1.1	3.0	0.2
27	18.9	14.8	0.0	2.8	19.0	14.8	0.1	3.2	19.4	15.1	0.3	3.3	19.1	14.9	0.1	3.2	0.5
28	19.3	15.1	0.4	2.3	19.2	14.9	0.2	2.2	19.7	15.3	0.3	2.6	19.5	15.2	0.4	2.4	0.5
29	19.1	15.0	-0.2	2.9	19.2	15.0	0.0	2.9	19.5	15.1	-0.2	3.2	19.3	14.8	-0.2	2.9	0.4
30	19.4	15.2	0.3	2.8	19.3	15.2	0.1	2.8	19.5	15.2	0.0	3.0	19.4	15.1	0.1	2.9	0.2
31	19.1	14.4	-0.3	3.0	19.3	14.7	0.0	3.2	19.4	14.6	-0.1	3.1	19.2	14.4	-0.2	3.1	0.3
32	19.7	14.9	0.6	2.7	19.7	14.9	0.4	2.7	20.0	14.9	0.6	3.0	19.9	14.7	0.7	2.9	0.3

**Test Point #2**



Tower Ct. & S. Whitting St.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571

Date: 02/18/06

Run	1				2				3				4				
Temp	34				31				37				35				
Time	01:18:35				07:21:11				13:24:44				19:25:35				
Chan	Vid	Aud	Adjicnt	6 Mth	Vid	Aud	Adjicnt	6 Mth	Vid	Aud	Adjicnt	6 Mth	Vid	Aud	Adjicnt	6 Mth	24 HR
33	19.3	15.2	-0.4	3.0	19.4	15.3	-0.3	3.1	19.6	15.4	-0.4	3.1	19.5	15.3	-0.4	3.0	0.3
34	19.4	15.0	0.1	3.6	19.3	15.0	-0.1	3.4	19.7	15.1	0.1	3.9	19.6	14.8	0.1	3.7	0.4
35	19.1	14.7	-0.3	2.8	19.3	14.8	0.0	3.2	19.5	14.7	-0.2	3.3	19.5	14.6	-0.1	3.2	0.4
36	19.7	14.7	0.6	3.0	19.7	14.8	0.4	3.1	20.0	14.8	0.5	3.2	19.9	14.6	0.4	3.0	0.3
37	19.7	15.0	0.0	2.8	19.8	15.0	0.1	2.9	20.1	15.1	0.1	2.9	20.3	15.3	0.4	3.2	0.6
38	19.8	15.3	0.1	3.3	19.6	15.0	-0.2	3.1	20.0	15.2	-0.1	2.6	19.9	15.0	-0.4	2.4	0.4
39	19.9	14.4	0.1	3.1	19.5	14.0	-0.1	2.9	20.0	14.3	0.0	3.2	20.0	14.1	0.1	3.3	0.5
40	20.4	14.9	0.5	3.2	20.5	15.0	1.0	3.5	20.8	15.0	0.8	3.4	20.9	15.0	0.9	3.6	0.5
41	20.6	15.5	0.2	2.9	20.5	15.5	0.0	2.8	20.8	15.3	0.0	3.3	20.9	15.5	0.0	3.2	0.4
42	18.1	14.4	-2.5	3.0	18.2	14.5	-2.3	3.1	18.3	14.6	-2.5	3.3	18.4	14.6	-2.5	3.3	0.3
43	18.7	15.0	0.6	3.2	18.6	14.9	0.4	3.3	18.8	15.0	0.5	3.3	18.8	14.9	0.4	3.4	0.2
44	21.2	15.1	2.5	4.3	21.2	15.3	2.6	4.4	21.2	15.3	2.4	4.3	21.0	15.0	2.2	4.1	0.2
45	20.7	14.9	-0.5	4.0	20.9	14.9	-0.3	4.4	20.6	15.1	-0.6	4.0	20.7	14.9	-0.3	4.2	0.3
46	20.8	15.8	0.1	3.6	20.7	15.5	-0.2	3.5	20.6	14.7	0.0	3.2	20.8	14.7	0.1	3.4	0.2
47	18.9	14.4	-1.9	3.1	19.0	14.3	-1.7	3.4	19.8	14.7	-0.8	3.8	19.8	14.7	-1.0	4.7	0.9
48	21.3	14.7	2.4	3.3	21.3	14.8	2.3	3.5	21.6	14.9	1.8	4.0	21.8	14.8	2.0	4.3	0.5
49	21.4	15.0	0.1	3.3	21.4	15.0	0.1	3.3	21.6	15.3	0.0	3.5	21.9	15.2	0.1	3.8	0.5
50	21.6	14.7	0.2	3.8	21.7	14.8	0.3	4.2	21.6	14.7	0.0	3.9	21.9	14.8	0.0	4.0	0.3
51	21.6	14.1	0.0	3.5	21.9	14.4	0.2	3.9	22.0	14.5	0.4	3.7	22.0	14.2	0.1	3.7	0.4
52	22.3	14.9	0.7	3.3	22.4	15.0	0.5	3.4	22.4	14.7	0.4	3.4	22.5	14.7	0.5	3.6	0.2
53	22.0	14.5	-0.3	3.3	22.0	14.6	-0.4	3.4	22.3	14.8	-0.1	3.7	22.2	14.4	-0.3	3.5	0.3
54	22.2	14.2	0.2	4.0	21.9	14.0	-0.1	3.6	22.4	14.3	0.1	4.2	22.4	14.0	0.2	4.1	0.5
55	22.6	14.5	0.4	3.4	22.4	14.3	0.5	3.3	22.6	14.5	0.2	3.5	22.9	14.5	0.5	3.8	0.5
56	22.9	15.1	0.3	3.6	22.7	15.1	0.3	3.5	22.9	15.1	0.3	3.6	23.0	14.9	0.1	3.7	0.3
57	22.3	14.3	-0.6	3.4	22.3	14.3	-0.4	3.6	22.6	14.4	-0.3	3.6	22.7	14.2	-0.3	3.8	0.4
58	20.5	14.3	-1.8	3.4	20.5	14.4	-1.8	3.5	20.7	14.5	-1.9	3.8	20.9	14.6	-1.8	3.9	0.4
59	22.6	14.4	2.1	3.6	22.6	14.4	2.1	3.6	23.0	14.6	2.3	3.9	23.1	14.5	2.2	4.2	0.5
60	23.2	15.2	0.6	4.8	22.9	14.9	0.3	4.6	23.4	15.3	0.4	4.9	23.4	15.0	0.3	4.7	0.5
61	23.3	16.1	0.1	4.7	23.2	15.9	0.3	4.7	23.1	15.7	-0.3	4.7	23.4	15.9	0.0	4.9	0.3
62	22.8	14.6	-0.5	4.3	22.7	14.5	-0.5	4.3	23.1	14.6	0.0	4.8	23.1	14.6	-0.3	5.1	0.4
63	23.6	15.1	0.8	4.3	23.4	14.7	0.7	4.1	23.6	15.0	0.5	4.6	23.5	14.8	0.4	4.4	0.2
64	23.5	15.3	-0.1	4.3	23.7	15.6	0.3	4.7	23.8	15.5	0.2	4.9	23.8	15.2	0.3	4.8	0.3
65	23.1	14.9	-0.4	4.7	22.8	14.7	-0.9	4.5	23.2	14.9	-0.6	5.0	23.1	14.7	-0.7	5.0	0.4
66	23.3	14.8	0.2	4.8	23.2	14.7	0.4	4.8	23.5	14.9	0.3	5.4	23.8	15.0	0.7	5.2	0.6
67	23.4	15.3	0.1	4.3	23.4	15.4	0.2	4.0	23.5	15.2	0.0	4.3	23.6	15.1	-0.2	4.4	0.2
68	23.4	14.7	0.0	3.8	23.4	14.8	0.0	3.7	23.6	14.9	0.1	4.0	23.6	14.6	0.0	4.0	0.2
69	23.3	13.9	-0.1	4.1	23.2	14.1	-0.2	3.9	23.5	14.2	-0.1	4.2	23.9	14.4	0.3	4.7	0.7
70	23.3	14.2	0.0	3.6	23.3	14.2	0.1	3.5	23.6	14.3	0.1	4.0	23.7	14.3	-0.2	3.9	0.4
71	23.9	14.9	0.6	5.0	23.7	14.7	0.4	4.7	23.9	14.7	0.3	4.9	24.1	14.7	0.4	5.0	0.4
72	21.2	14.7	-2.7	2.0	21.1	14.5	-2.6	2.1	21.5	14.7	-2.4	2.4	21.3	14.4	-2.8	1.8	0.4

### Test Point #2



Tower Cl. & S. Whitting St.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571      Date: 02/18/06

Run	1				2				3				4				
	Time: 01:18:35				Time: 07:21:11				Time: 13:24:44				Time: 19:25:35				
Temp	34				31				37				35				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
73	23.6	14.6	2.4	4.6	23.5	14.6	2.4	4.3	23.8	14.8	2.3	4.6	23.5	14.3	2.2	4.2	0.3
74	24.3	15.1	0.7	4.4	24.0	15.0	0.5	4.1	24.3	15.1	0.5	4.2	24.3	15.0	0.8	4.3	0.3
75	23.7	15.6	-0.6	6.1	23.7	15.6	-0.3	3.6	23.9	15.6	-0.4	3.9	24.0	15.6	-0.3	4.1	0.3
76	23.6	15.0	-0.1	5.0	23.4	14.6	-0.3	5.2	23.5	14.6	-0.4	4.9	23.9	14.7	-0.1	5.4	0.5
77	23.0	16.4	-0.6	5.8	22.8	16.7	-0.6	5.6	23.1	16.9	-0.4	6.1	23.4	17.0	-0.5	6.3	0.6
78	23.9	16.4	0.6	5.3	23.9	15.9	0.7	4.6	24.1	15.1	0.6	5.0	24.3	15.3	0.4	6.2	0.4
Min Value	11.8	13.3	-2.7	-2.0	12.9	13.2	-2.6	-0.1	12.9	13.2	-2.5	-0.2	12.6	14.0	-2.8	-0.4	0.1
Max Value	24.3	16.4	2.7	6.1	24.0	16.7	2.6	5.6	24.3	16.9	2.4	6.1	24.3	17.0	2.2	6.3	2.3

**Notes:**

- \*1 - Station off air - standby by carrier in use
- \*2 - New channel addition there is no 6 month reference



## Distortion Measurements

Comcast of Alexandria, VA performed distortion tests at 11 test points, as required by the FCC (76.601 (c)(1)), which states that at least 6 test points for the first 12,500 subscribers, adding 1 test point for each additional 12,500 subscribers. Comcast of Alexandria's subscriber count is 49,199 as of 01/01/06. All of Comcast's test points are distributed through the outer edges of the county at its farthest node locations, with the test points being at the end-of-line. Which meets the requirement that all geographic areas be represented and at least 1/3 of the test points being the most distant points in the system. At each test point, 9 channels were tested for distortions as required by the FCC (76.601(c)(2)), which states at least 4 channels must be tested at each test point, adding 1 channel for each 100 MHz block above 100 MHz. Comcast of Arlington's analog bandwidth is 550 MHz.

### **Current FCC distortion specifications are as follows:**

The C/N measurement (76.605 (a)(7)(ii)) shall not be less than 43dB.

The CTB, CSO and X-mod measurements (76.605 (a)(8)(I)) shall not be less than 51dB.

The HUM measurement (76.605(a)(10)) shall not exceed 3.0%.

The Aural Carrier Difference (4.5 Difference)(76.605 (a)(2)) must be 4.5 MHz above the Visual Carrier, +/- 5KHz.

The In-Channel Frequency Response (In-Band Frequency Response) (76.605 (a)(6)) should not vary by more than +/- 2dB.

**Test Point #3**

**Comcast**  
 1 N. Donelson St.  
 Alexandria, VA  
 FCC Distortion Measurements  
 EQUIPMENT USED:  
 H/P 8591C, S/N 3916A04384  
 Pre-Amplifier 85905A, S/N 6093-0551  
 Cybertec Examiner 101129-001  
 CONVERTER BOX SA 8511, S/N GF505BFDN

Date:02/15/06

Time: 4:30 pm

Temp: 45

CH.	FREQ. RSP 2dB Max	HUM% 3% Max	CSO 51dB Min	CTB 51dB Min	C/N 43dB Min	4.5 DIFF 5KHz Max
2	0.6	1.7	70.7	66.6	46.9	4.5000
95	0.2	1.1	75	58.9	45.8	4.5001
21	0.2	1.2	71.4	73.2	47.9	4.5000
8	0.7	0.4	67.2	67.7	47.3	4.5002
28	0.6	0.9	68	65.2	48.9	4.5000
32	2	1.2	65.1	68.8	48.4	4.5000
47	0.5	0.5	70.4	66.5	48.9	4.5000
58	1	0.4	71.8	67.4	47.1	4.5000
72	0.5	0.8	66.5	64.8	45.5	4.4999
Minimum values:	0.2	0.4	65.1	58.9	45.5	4.4999
Maximum values:	2	1.7	75.0	73.2	48.9	4.5002



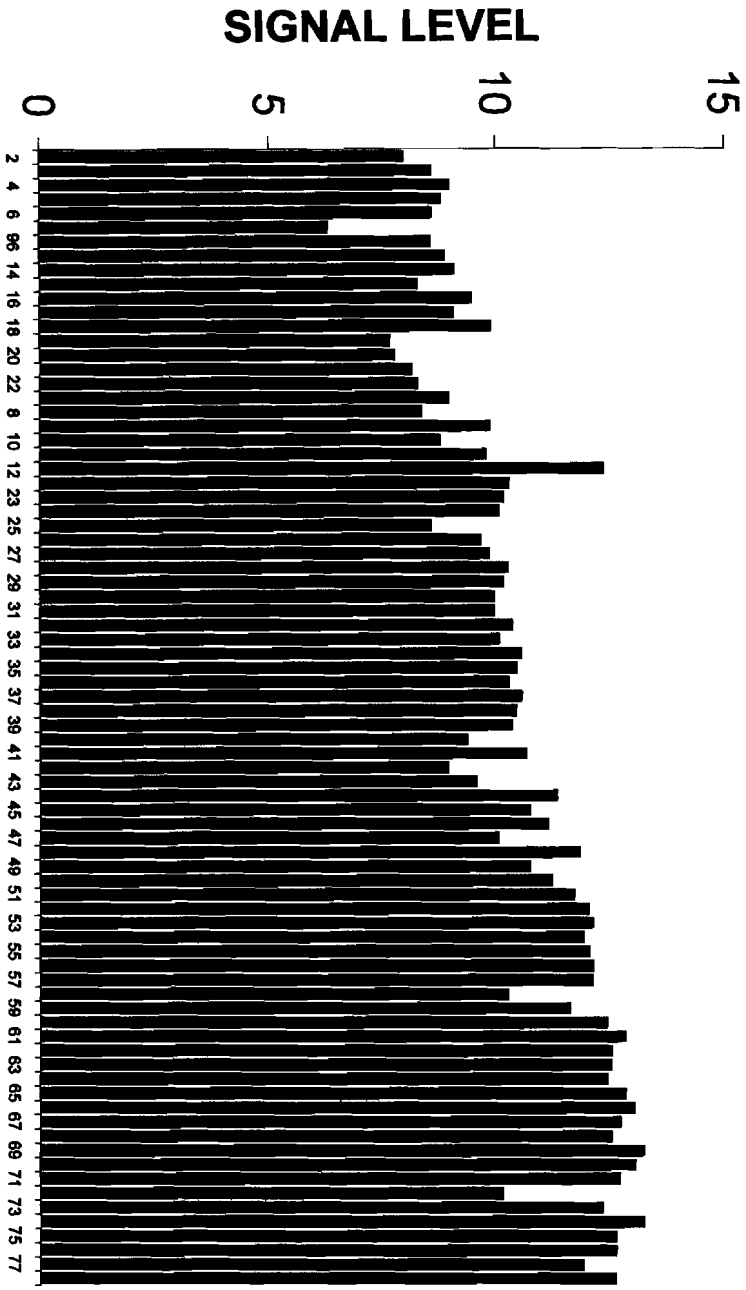
### Signal Level Variance

The ranges allowed by the FCC (76.605 (a)(4)(i,ii,iii)) are as follows:

4. Each level shall not vary by more than 8dB within any 6-month interval.
  - i. Adjacent channel level to be within 3dB of each other.
  - ii. Visual signal level on any other channel on a cable television system should be less than 10dB for systems of up to 300 MHz; for each additional 100 MHz, add 1dB to maximum difference level.
  - iii. A maximum level such that signal degradation due to overload in the subscriber's Receiver or terminal does not occur.



TEST POINT #3



The maximum signal level is 16.8 dBmV

The maximum adjacent channel level difference is 2.8 dBmV  
The maximum level difference between the highest and lowest is 7.6 dBmV  
The maximum six month variance is 5 dBmV

**Test Point #3**



1 N. Donelson St.  
24 Hour Level Variation  
Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4240571 Date: 02/18/06

Run	1			2			3			4										
Temp	35			31			37			35										
Chan	Vid Lvl	Aud Diff	Adjct Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjct Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjct Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjct Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjct Diff	6 Mth Diff
2	8.0	13.6	0.1	0.1	7.9	13.6	-0.6	-0.6	8.1	15.1	-0.5	-0.5	8.1	13.6	-0.5	-0.5	8.1	13.6	-0.5	-0.5
3	8.6	14.8	0.6	2.1	8.4	14.7	0.5	0.3	8.6	15.2	0.5	0.0	8.6	14.8	0.5	0.6	8.6	14.8	0.5	0.6
4	9.0	14.9	0.4	2.4	8.9	14.9	0.5	1.4	8.2	15.0	-0.4	0.0	8.2	15.0	1.3	2.7	8.2	15.0	1.3	2.7
5	8.8	15.6	-0.2	2.4	8.2	15.0	-0.7	0.5	7.7	14.3	-0.5	0.0	7.7	14.3	-1.3	1.0	7.7	14.3	-1.3	1.0
6	8.6	15.0	-0.2	3.0	8.5	15.1	0.3	1.0	7.9	15.2	0.2	0.1	7.9	15.2	0.1	1.1	7.9	15.2	0.1	1.1
95	6.3	14.6	-2.3	0.0	6.3	14.3	-2.2	-2.4	7.5	15.5	-0.4	-1.3	6.4	15.4	-2.3	-2.5	6.4	15.4	-2.3	-2.5
96	8.6	14.7	2.3	2.9	8.6	14.7	2.3	-0.1	5.9	14.7	-1.6	-2.4	8.6	14.6	2.2	0.2	8.6	14.6	2.2	0.2
99	8.9	14.5	0.3	3.0	8.9	14.5	0.3	0.6	7.4	14.8	1.5	0.0	9.1	14.6	0.5	1.1	9.1	14.6	0.5	1.1
14	9.1	15.2	0.2	1.7	9.0	15.2	0.1	0.8	6.5	14.5	-0.9	-1.7	7.2	14.9	-1.9	0.0	7.2	14.9	-1.9	0.0
15	8.3	14.8	-0.8	1.3	8.3	14.9	-0.7	1.1	8.4	14.9	1.9	1.3	8.3	15.0	1.1	1.4	8.3	15.0	1.1	1.4
16	9.5	14.5	1.2	2.4	9.3	15.0	1.0	1.7	9.1	14.6	0.7	2.4	8.9	15.2	0.6	1.7	8.9	15.2	0.6	1.7
17	9.1	14.1	-0.4	3.1	9.1	15.1	-0.2	1.1	8.9	16.4	-0.2	1.0	8.8	14.7	-0.1	0.9	8.8	14.7	-0.1	0.9
18	9.9	14.9	0.8	5.0	8.8	14.8	-0.3	1.8	8.6	14.8	-0.3	0.0	8.2	14.9	-0.6	1.5	8.2	14.9	-0.6	1.5
19	7.7	14.7	-2.2	2.4	7.8	15.1	-1.0	2.4	7.7	14.8	-0.9	0.3	9.0	15.5	0.8	1.5	9.0	15.5	0.8	1.5
20	7.8	15.0	0.1	1.9	7.9	15.0	0.1	0.4	7.8	14.8	0.1	0.4	8.5	15.2	-0.5	1.0	8.5	15.2	-0.5	1.0
21	8.2	14.6	0.4	1.6	8.0	14.4	0.1	0.4	7.0	14.4	-0.8	0.0	8.4	14.3	-0.1	0.7	8.4	14.3	-0.1	0.7
22	8.3	14.5	0.1	1.3	8.3	14.5	0.3	0.2	8.4	14.3	1.4	0.5	8.6	14.5	0.2	0.7	8.6	14.5	0.2	0.7
7	9.0	15.0	0.7	2.1	8.3	14.2	0.0	0.4	9.1	14.6	0.7	1.1	9.1	14.6	0.5	1.1	9.1	14.6	0.5	1.1
8	8.4	15.2	-0.6	1.9	8.6	15.4	0.3	0.9	8.8	15.3	-0.3	1.2	8.9	15.2	-0.2	1.1	8.9	15.2	-0.2	1.1
9	9.9	15.7	1.5	3.2	9.4	15.2	0.8	1.5	10.6	15.8	1.8	2.6	9.0	14.9	0.1	0.0	9.0	14.9	0.1	0.0
10	8.8	14.7	-1.1	1.5	8.9	14.8	-0.5	0.6	9.8	14.7	-0.8	1.3	9.9	15.0	0.9	1.4	9.9	15.0	0.9	1.4
11	9.8	14.8	1.0	1.4	9.7	14.7	0.8	0.9	10.4	14.9	0.6	1.2	10.1	15.3	0.2	1.0	10.1	15.3	0.2	1.0
12	12.4	16.8	2.6	4.6	12.1	16.6	2.4	2.7	10.5	15.1	0.1	1.3	10.0	15.2	-0.1	0.7	10.0	15.2	-0.1	0.7
13	10.3	15.0	-2.1	3.1	10.5	15.3	-1.6	1.5	10.6	15.6	0.1	1.4	9.9	15.0	-0.1	0.5	9.9	15.0	-0.1	0.5
23	10.2	15.2	-0.1	3.7	10.4	15.5	-0.1	2.6	10.5	15.2	-0.1	2.5	10.1	15.1	0.2	2.0	10.1	15.1	0.2	2.0
24	10.1	15.4	-0.1	4.4	9.9	15.2	-0.5	2.0	10.1	15.1	-0.4	2.3	9.9	15.1	-0.2	2.1	9.9	15.1	-0.2	2.1
25	8.6	14.7	-1.5	3.3	8.5	14.7	-1.4	1.9	9.0	14.9	-1.1	2.8	8.8	14.8	-1.1	1.9	8.8	14.8	-1.1	1.9
26	9.7	15.1	1.1	3.6	9.7	15.1	1.2	1.7	10.1	15.2	1.1	1.9	10.0	15.2	1.2	1.8	10.0	15.2	1.2	1.8
27	9.9	14.9	0.2	3.7	10.3	15.2	0.6	2.1	10.2	15.0	0.1	1.7	10.4	15.1	0.4	1.8	10.4	15.1	0.4	1.8
28	10.3	15.1	0.4	2.2	10.4	15.1	0.1	1.0	10.8	15.4	0.6	1.3	10.8	15.4	0.4	1.3	10.8	15.4	0.4	1.3
29	10.2	15.3	-0.1	3.9	10.0	15.1	-0.4	1.5	10.4	15.1	-0.4	1.9	10.3	14.9	-0.5	2.0	10.3	14.9	-0.5	2.0
30	10.0	14.9	-0.2	4.2	10.0	14.8	0.0	1.8	10.2	14.7	-0.2	2.1	10.3	14.8	0.0	2.1	10.3	14.8	0.0	2.1
31	10.0	14.8	0.0	3.6	9.9	14.5	-0.1	1.8	10.2	14.7	0.0	3.7	10.1	14.5	-0.2	1.9	10.1	14.5	-0.2	1.9
32	10.4	15.2	0.4	3.7	10.3	15.0	0.4	1.5	10.6	15.0	0.4	1.6	10.6	14.9	0.5	1.5	10.6	14.9	0.5	1.5

**Test Point #3**



1 N. Donelson St.  
24 Hour Level Variation  
Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4240571 Date: 02/18/06

Run	1				2				3				4				
Temp	35				31				37				35				
Time	01:04:38				07:03:12				13:08:37				19:10:52				
Chan	Vid	Aud	Adjct	6 Mth	Vid	Aud	Adjct	6 Mth	Vid	Aud	Adjct	6 Mth	Vid	Aud	Adjct	6 Mth	24 HR
33	10.1	15.0	-0.3	3.2	10.0	15.1	-0.3	1.9	8.0	15.2	-2.6	0.0	10.2	15.1	-0.4	1.9	2.2
34	10.6	15.2	0.5	3.3	10.3	14.8	0.3	2.1	10.6	15.0	2.6	2.3	10.8	15.1	0.6	2.6	0.5
35	10.5	15.4	-0.1	2.9	10.4	15.2	0.1	1.7	10.7	15.4	0.1	1.7	10.7	15.4	-0.1	1.9	0.3
36	10.3	14.8	-0.2	2.9	10.4	14.9	0.0	2.3	10.4	14.7	-0.3	2.0	10.5	14.8	-0.2	1.9	0.2
37	10.6	14.8	0.3	2.5	10.6	14.8	0.2	1.9	10.9	15.0	0.5	4.9	10.8	14.7	0.3	1.8	0.3
38	10.5	14.8	-0.1	2.3	11.0	15.4	0.4	2.1	11.0	15.3	0.1	4.2	10.9	14.9	0.1	1.9	0.5
39	10.4	16.3	-0.1	2.0	10.4	16.4	-0.6	1.2	10.2	15.0	-0.8	3.2	10.8	14.6	-0.1	1.7	0.6
40	9.4	14.0	-1.0	0.9	9.3	14.0	-1.1	0.0	10.5	15.1	0.3	1.2	11.1	15.0	0.3	1.8	1.8
41	10.7	15.1	1.3	1.6	10.8	15.1	1.5	1.0	10.6	14.7	0.1	0.7	11.2	15.6	0.1	1.4	0.6
42	9.0	14.6	-1.7	1.7	8.8	14.4	-2.0	0.8	9.2	14.6	-1.4	1.3	8.9	14.7	-2.3	1.1	0.4
43	9.6	15.4	0.6	2.2	9.4	15.3	0.6	1.3	9.6	15.3	0.4	1.6	9.3	15.3	0.4	1.2	0.3
44	11.4	15.4	1.8	3.3	11.6	15.7	2.2	2.7	9.2	15.6	-0.4	0.0	11.4	15.2	2.1	2.3	2.4
45	10.8	14.5	-0.6	3.7	10.9	14.6	-0.7	2.8	10.9	14.5	1.7	2.6	11.0	14.4	-0.4	2.8	0.2
46	11.2	15.0	0.4	3.1	11.5	15.3	0.6	2.4	11.5	15.2	0.6	1.9	11.6	15.0	0.6	2.3	0.4
47	10.1	15.4	-1.1	2.1	10.1	15.3	-1.4	1.2	10.3	15.1	-1.2	1.5	10.6	16.0	-1.0	2.4	0.5
48	11.9	15.9	1.8	2.7	12.1	16.2	2.0	2.4	12.2	16.2	1.9	2.6	11.9	15.3	1.3	2.2	0.3
49	10.8	14.6	-1.1	1.6	10.7	14.6	-1.4	0.8	10.8	14.5	-1.4	0.9	11.3	14.9	-0.6	1.4	0.6
50	11.3	14.4	0.5	2.0	11.4	14.5	0.7	1.6	11.5	14.7	0.7	2.1	11.7	14.7	0.4	1.8	0.4
51	11.8	14.5	0.5	2.5	11.7	14.4	0.3	1.8	12.0	14.5	0.5	1.8	12.2	14.5	0.5	2.1	0.5
52	12.1	14.5	0.3	2.0	12.4	14.7	0.7	1.4	12.4	14.7	0.4	1.4	12.8	14.9	0.6	1.9	0.7
53	12.2	14.8	0.1	2.3	11.9	14.4	-0.5	1.4	12.3	14.7	-0.1	1.7	12.4	14.6	-0.4	1.6	0.5
54	12.0	14.7	-0.2	3.0	11.9	14.5	0.0	2.0	12.0	14.4	-0.3	2.1	12.2	14.5	-0.2	2.3	0.3
55	12.1	14.7	0.1	2.5	11.9	14.7	0.0	1.4	12.1	14.6	0.1	1.6	12.4	14.9	0.2	1.9	0.5
56	12.2	14.5	0.1	3.0	12.2	14.4	0.3	1.8	12.4	14.5	0.3	2.0	12.3	14.3	-0.1	1.9	0.2
57	12.2	14.2	0.0	2.8	12.3	14.5	0.1	1.9	12.5	14.5	0.1	1.9	12.8	14.5	0.5	2.3	0.6
58	10.3	15.0	-1.9	2.7	10.4	15.2	-1.9	1.9	10.6	15.2	-1.9	2.1	10.5	15.0	-2.3	2.0	0.3
59	11.7	14.5	1.4	2.9	11.6	14.4	1.2	1.9	11.8	14.3	1.2	2.2	12.0	14.4	1.5	2.2	0.4
60	12.5	14.8	0.8	3.8	12.5	14.9	0.9	2.9	12.6	14.8	0.8	2.9	13.0	15.0	1.0	3.3	0.5
61	12.9	15.9	0.4	3.3	13.0	16.2	0.5	2.8	12.9	15.8	0.3	2.8	13.3	16.1	0.3	3.3	0.4
62	12.6	15.6	-0.3	3.7	12.5	15.5	-0.5	2.7	12.8	15.6	-0.1	2.9	13.0	15.4	-0.3	3.6	0.5
63	12.6	15.6	0.0	3.5	12.4	15.2	-0.1	2.5	12.7	15.5	-0.1	3.0	12.9	15.4	-0.1	3.2	0.5
64	12.5	14.8	-0.1	3.4	12.5	14.8	0.1	2.7	12.9	15.0	0.2	3.3	12.9	14.9	0.0	3.1	0.4
65	12.9	14.8	0.4	3.6	12.9	14.8	0.4	3.0	13.2	15.0	0.3	3.5	13.1	14.6	0.2	3.1	0.3
66	13.1	15.1	0.2	3.2	13.0	15.0	0.1	2.6	13.2	15.3	0.0	2.9	13.4	15.3	0.3	2.9	0.4
67	12.8	15.5	-0.3	3.1	12.6	15.3	-0.4	2.1	13.0	15.6	-0.2	2.5	13.2	15.6	-0.2	2.6	0.6
68	12.6	14.7	-0.2	2.5	12.6	14.6	0.0	2.0	13.0	14.9	0.0	2.2	13.1	14.7	-0.1	2.5	0.5
69	13.3	14.4	0.7	3.0	13.4	14.5	0.8	2.5	13.5	13.8	0.5	2.6	13.6	14.2	0.5	2.8	0.3
70	13.1	14.5	-0.2	2.5	13.1	14.5	-0.3	2.0	13.2	14.5	-0.3	2.0	13.4	14.4	-0.2	2.1	0.3
71	12.8	14.5	-0.3	3.3	12.9	14.7	-0.2	2.9	13.1	14.8	-0.1	2.9	13.4	14.9	0.0	3.1	0.6
72	10.2	14.5	-2.6	0.7	10.1	14.4	-2.8	-0.1	10.4	14.5	-2.7	0.3	10.6	14.6	-2.8	0.2	0.5





## Distortion Measurements

Comcast of Alexandria, VA performed distortion tests at 11 test points, as required by the FCC (76.601 (c)(1)), which states that at least 6 test points for the first 12,500 subscribers, adding 1 test point for each additional 12,500 subscribers. Comcast of Alexandria's subscriber count is 49,199 as of 01/01/06. All of Comcast's test points are distributed through the outer edges of the county at its farthest node locations, with the test points being at the end-of-line. Which meets the requirement that all geographic areas be represented and at least 1/3 of the test points being the most distant points in the system. At each test point, 9 channels were tested for distortions as required by the FCC (76.601(c)(2)), which states at least 4 channels must be tested at each test point, adding 1 channel for each 100 MHz block above 100 MHz. Comcast of Arlington's analog bandwidth is 550 MHz.

### **Current FCC distortion specifications are as follows:**

The C/N measurement (76.605 (a)(7)(ii)) shall not be less than 43dB.

The CTB, CSO and X-mod measurements (76.605 (a)(8)(I)) shall not be less than 51dB.

The HUM measurement (76.605(a)(10)) shall not exceed 3.0%.

The Aural Carrier Difference (4.5 Difference)(76.605 (a)(2)) must be 4.5 MHz above the Visual Carrier, +/- 5KHz.

The In-Channel Frequency Response (In-Band Frequency Response) (76.605 (a)(6)) should not vary by more than +/- 2dB.

## Test Point #4

**Comcast**  
 Kenwood St. & Fern St.  
 Alexandria, VA  
 FCC Distortion Measurements  
 EQUIPMENT USED:  
 H/P 8591C, S/N 3916A04384  
 Pre-Amplifier 85905A, S/N 6093-0551  
 Cybertec Examiner 101129-001  
 CONVERTER BOX SA 8511, S/N GF505BFDN

Date: 02/15/06

Time: 2:30 pm

Temp: 43

CH.	FREQ. RSP 2dB Max	HUM% 3% Max	CSO 51dB Min	CTB 51dB Min	C/N 43dB Min	4.5 DIFF 5KHz Max
2	0.6	1.8	62.2	63.5	44.9	4.5000
95	0.4	1.1	71	63.5	43.2	4.5000
21	1.2	1.3	72.8	63.5	47.7	4.5000
8	1.2	0.9	67.2	67.8	46.7	4.5000
28	1	1	71	66.5	48.1	4.5000
32	1.5	1.1	68.4	67.2	48.1	4.5000
47	2	1.3	69.4	65.9	47.5	4.5000
58	1.1	0.9	65.8	61.3	48.3	4.5001
72	0.8	1.2	64.5	64.7	45.8	4.4969
Minimum values:	0.4	0.9	62.2	61.3	43.2	4.4969
Maximum values:	2	1.8	72.8	67.8	48.3	4.5001

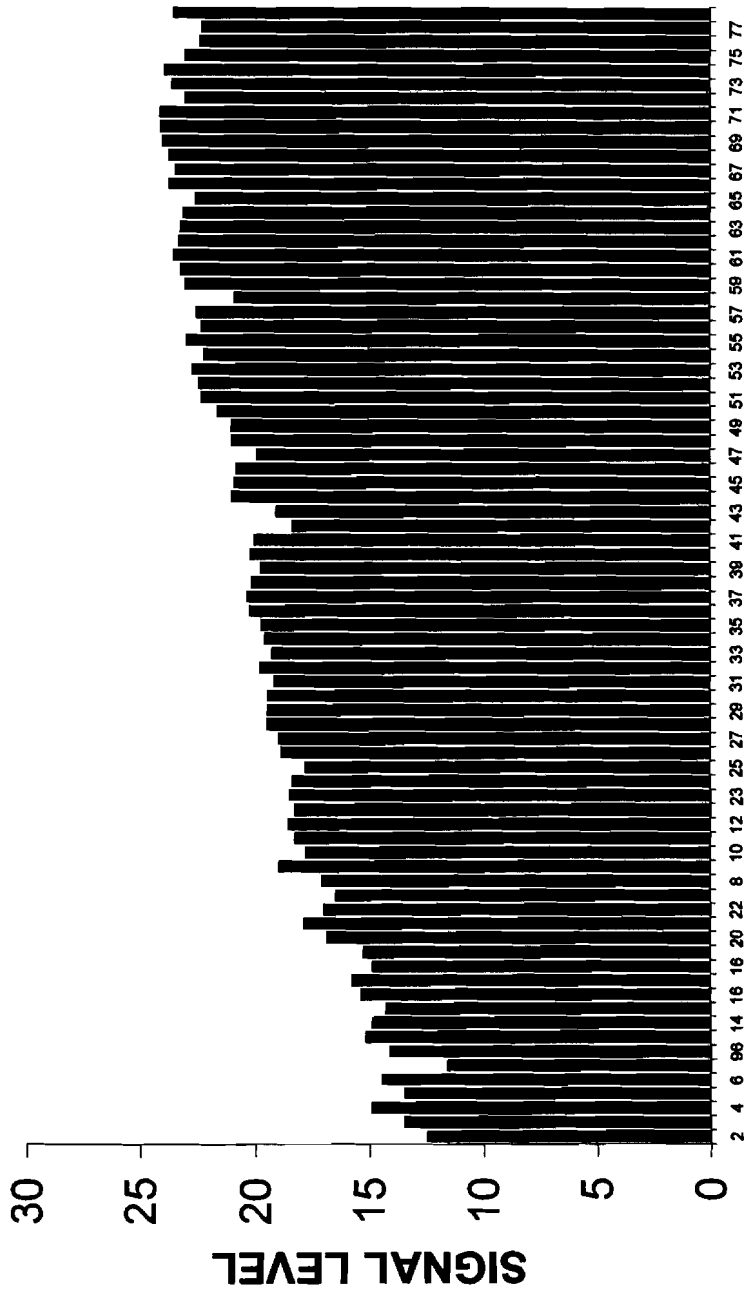


### Signal Level Variance

The ranges allowed by the FCC (76.605 (a)(4)(i,ii,iii)) are as follows:

4. Each level shall not vary by more than 8dB within any 6-month interval.
  - i. Adjacent channel level to be within 3dB of each other.
  - ii. Visual signal level on any other channel on a cable television system should be less than 10dB for systems of up to 300 MHz; for each additional 100 MHz, add 1dB to maximum difference level.
  - iii. A maximum level such that signal degradation due to overload in the subscriber's Receiver or terminal does not occur.

TEST POINT #4



CHANNEL

The maximum signal level is 24.3 dBmV

The maximum adjacent channel level difference is 2.9 dBmV  
The maximum level difference between the highest and lowest is 12.7 dBmV  
The maximum six month variance is 6.1 dBmV



### Test Point #4

**Comcast**

Kenwood St. & Fern St.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571      Date: 02/18/06

Run	1				2				3				4				
	Time: 00:30:46				Time: 06:30:05				Time: 12:26:24				Time: 12:26:24				
Temp	35				31				37				37				
Chan	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	24 HR Vid Diff
2	12.5	13.5		0.1	12.4	13.0		0.0	12.6	13.7		0.2	12.6	13.7		0.3	0.2
3	13.5	15.0	1.0	1.3	13.4	14.9	1.0	1.3	13.4	14.9	0.8	0.9	13.4	14.9	0.8	1.2	0.1
4	14.9	15.8	1.4	2.9	14.5	15.5	1.1	2.7	15.1	15.9	1.7	3.1	15.1	15.9	1.7	3.2	0.6
5	13.5	15.2	-1.4	1.6	13.4	15.1	-1.1	1.5	12.7	14.3	-2.4	0.7	12.7	14.3	-2.4	0.8	0.8
6	14.5	15.5	1.0	2.0	14.2	15.2	0.8	1.7	14.3	15.4	1.6	1.6	14.3	15.4	1.6	1.8	0.3
95	11.6	15.6	-2.9	-1.9	11.4	15.4	-2.8	-2.0	11.7	15.7	-2.6	-2.0	11.7	14.7	-2.6	-2.1	0.3
96	14.1	14.5	2.5	0.6	14.1	14.6	2.7	0.4	14.2	14.6	2.5	0.4	14.2	14.6	2.5	0.6	0.1
99	15.2	15.1	1.1	1.6	15.2	15.0	1.1	1.6	15.3	15.0	1.1	1.4	15.3	15.0	1.1	1.7	0.1
14	14.9	15.1	-0.3	1.3	14.7	14.8	-0.5	1.1	14.7	14.6	-0.6	0.9	14.7	14.6	-0.6	1.2	0.2
15	14.3	15.1	-0.6	1.9	14.1	14.7	-0.6	1.7	14.3	14.9	-0.4	1.5	14.3	14.9	-0.4	1.6	0.2
16	15.4	15.3	1.1	1.4	15.4	15.3	1.3	2.3	15.4	15.3	1.1	1.4	15.4	15.2	1.1	1.7	0.0
17	15.8	15.1	0.4	1.5	15.7	14.9	0.3	1.6	15.9	15.1	0.5	1.5	15.9	15.1	0.5	1.7	0.2
18	14.9	15.4	-0.9	2.1	14.7	15.1	-1.0	1.5	14.7	15.0	-1.2	1.7	14.7	15.0	-1.2	1.9	0.2
19	15.3	14.9	0.4	0.7	15.2	14.7	0.5	3.2	15.3	14.8	0.6	1.8	15.3	14.8	0.6	1.9	0.1
20	16.9	13.9	1.6	1.9	16.9	14.0	1.7	2.8	16.7	13.5	1.4	0.8	16.7	13.5	1.4	1.3	0.2
21	17.9	15.5	1.0	3.0	18.0	15.7	1.1	3.1	18.1	15.6	1.4	2.6	18.1	15.6	1.4	2.9	0.2
22	17.0	15.1	-0.9	2.2	16.9	15.1	-1.1	2.0	17.0	15.1	-1.1	2.1	17.0	15.1	-1.1	2.1	0.1
7	16.5	14.1	-0.5	2.3	17.0	14.5	0.1	3.0	16.6	14.0	-0.4	2.2	16.6	14.0	-0.4	2.0	0.5
8	17.1	14.6	0.6	2.5	17.2	14.9	0.2	2.6	17.3	15.0	0.7	2.4	17.3	15.0	0.7	2.5	0.2
9	19.0	15.6	1.9	4.0	18.4	15.0	1.2	3.3	18.4	14.7	1.1	3.1	18.4	14.7	1.1	3.3	0.6
10	17.8	14.9	-1.2	2.3	17.8	14.6	-0.6	2.2	17.9	14.8	-0.5	2.0	17.9	14.8	-0.5	2.3	0.1
11	18.3	15.3	0.5	2.0	18.1	15.0	0.3	1.9	18.2	15.1	0.3	1.9	18.2	15.1	0.3	2.0	0.2
12	18.6	15.2	0.3	2.3	18.5	15.0	0.4	2.0	18.7	15.1	0.5	2.1	18.7	15.1	0.5	2.2	0.2
13	18.3	14.6	-0.3	1.8	18.4	14.8	-0.1	2.1	18.7	14.9	0.0	2.1	18.7	14.9	0.0	2.2	0.4
23	18.5	15.1	0.2	3.2	18.4	15.0	0.0	3.4	18.9	15.4	0.2	3.5	18.9	15.4	0.2	3.7	0.5
24	18.4	14.9	-0.1	3.0	18.6	14.9	0.2	2.8	18.8	15.0	-0.1	3.2	18.8	15.0	-0.1	3.5	0.4
25	17.8	14.8	-0.6	2.9	17.9	14.9	-0.7	3.2	18.1	14.9	-0.7	3.1	18.1	14.9	-0.7	3.3	0.3
26	18.9	14.9	1.1	3.1	19.1	15.2	1.2	3.2	19.0	14.8	0.9	2.8	19.0	14.8	0.9	3.0	0.2
27	19.0	15.0	0.1	3.1	19.0	15.1	-0.1	2.8	19.1	14.9	0.1	2.9	19.1	14.9	0.1	2.8	0.1
28	19.5	15.1	0.5	2.2	19.7	15.2	0.7	2.5	19.9	15.1	0.8	2.6	19.9	15.1	0.8	2.8	0.4
29	19.5	15.3	0.0	2.9	19.4	15.1	-0.3	2.9	19.6	15.2	-0.3	2.8	19.6	15.2	-0.3	2.7	0.2
30	19.5	15.2	0.0	2.8	19.5	15.2	0.1	2.9	19.8	15.3	0.2	3.0	19.8	15.3	0.2	3.1	0.3
31	19.2	15.0	-0.3	3.0	19.1	14.9	-0.4	2.8	19.5	15.1	-0.3	3.0	19.5	15.1	-0.3	3.1	0.4
32	19.8	15.1	0.6	2.8	19.8	14.9	0.7	2.8	20.1	15.1	0.6	2.8	20.1	15.1	0.6	2.8	0.3



### Test Point #4



Kenwood St. & Fern St.

24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571

Date: 02/18/06

Run	1				2				3				4				
	Time: 00:30:46				Time: 06:30:05				Time: 12:26:24				Time: 12:26:24				
Temp	35				31				37				37				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
73	23.7	15.3	0.6	4.1	23.7	15.2	0.6	4.2	23.9	15.3	2.5	4.2	23.9	15.3	2.5	4.3	0.2
74	24.0	15.3	0.3	4.0	24.1	15.2	0.4	4.1	24.1	15.2	0.2	3.9	24.1	15.2	0.2	4.0	0.1
75	23.1	15.5	-0.9	3.0	23.2	15.7	-0.9	2.8	23.3	15.6	-0.8	2.9	23.3	15.6	-0.8	3.0	0.2
76	22.5	14.3	-0.6	4.0	22.6	14.4	-0.6	4.1	22.8	14.3	-0.5	4.3	22.8	14.3	-0.5	4.4	0.3
77	22.4	15.1	-0.1	5.5	22.1	16.7	-0.5	5.4	22.6	15.7	-0.2	5.6	22.6	15.8	-0.2	4.2	0.5
78	23.6	15.3	-0.5	5.4	23.6	15.4	-0.3	4.7	23.5	15.4	-0.5	4.5	23.5	15.4	-0.5	6.1	0.1
Min Value	11.6	13.5	-2.9	-1.9	11.4	13.0	-2.8	-2.0	11.7	13.5	-2.8	-2.0	11.7	13.5	-2.8	-2.1	0.0
Max Value	24.2	16.0	2.5	5.5	24.1	16.7	2.7	5.4	24.3	16.0	2.7	5.6	24.3	16.0	2.7	6.1	1.7

Notes:

\*1 - Station off air - standby carrier in use

\*2 - New channel addition there is no 6 month reference



## Distortion Measurements

Comcast of Alexandria, VA performed distortion tests at 11 test points, as required by the FCC (76.601 (c)(1)), which states that at least 6 test points for the first 12,500 subscribers, adding 1 test point for each additional 12,500 subscribers. Comcast of Alexandria's subscriber count is 49,199 as of 01/01/06. All of Comcast's test points are distributed through the outer edges of the county at its farthest node locations, with the test points being at the end-of-line. Which meets the requirement that all geographic areas be represented and at least 1/3 of the test points being the most distant points in the system. At each test point, 9 channels were tested for distortions as required by the FCC (76.601(c)(2)), which states at least 4 channels must be tested at each test point, adding 1 channel for each 100 MHz block above 100 MHz. Comcast of Arlington's analog bandwidth is 550 MHz.

### **Current FCC distortion specifications are as follows:**

The C/N measurement (76.605 (a)(7)(ii)) shall not be less than 43dB.

The CTB, CSO and X-mod measurements (76.605 (a)(8)(I)) shall not be less than 51dB.

The HUM measurement (76.605(a)(10)) shall not exceed 3.0%.

The Aural Carrier Difference (4.5 Difference)(76.605 (a)(2)) must be 4.5 MHz above the Visual Carrier, +/- 5KHz.

The In-Channel Frequency Response (In-Band Frequency Response) (76.605 (a)(6)) should not vary by more than +/- 2dB.

## Test Point #5

**Comcast**  
 1121 Allison St.  
 Alexandria, VA  
 FCC Distortion Measurements  
 EQUIPMENT USED:  
 H/P 8591C, S/N 3916A04384  
 Pre-Amplifier 85905A, S/N 6093-0551  
 Cybertec Examiner 101129-001  
 CONVERTER BOX SA 8511, S/N GF505BFDN

Date: 02/15/06

Time: 3:30 pm

Temp: 44

CH.	FREQ. RSP 2dB Max	HUM% 3% Max	CSO 51dB Min	CTB 51dB Min	C/N 43dB Min	4.5 DIFF 5KHz Max
2	0.6	1.7	70.7	71.1	47.3	4.5000
95	0.3	0.6	65.9	66.8	45.3	4.5000
21	1	1.4	66.5	71.4	49.3	4.5000
8	1.1	1.1	67.9	62.2	48.6	4.5000
28	0.9	1.2	70.6	67.5	50	4.5000
32	0.6	1.2	67.7	66.8	49.4	4.4999
47	0.9	0.9	67.3	64.1	49.4	4.5000
58	0.4	1.1	72.3	67.2	49.8	4.5000
72	0.3	0.7	73.6	64.3	46.4	4.4994
Minimum values:	0.3	0.6	65.9	62.2	45.3	4.4994
Maximum values:	1.1	1.7	73.6	71.4	50.0	4.5000

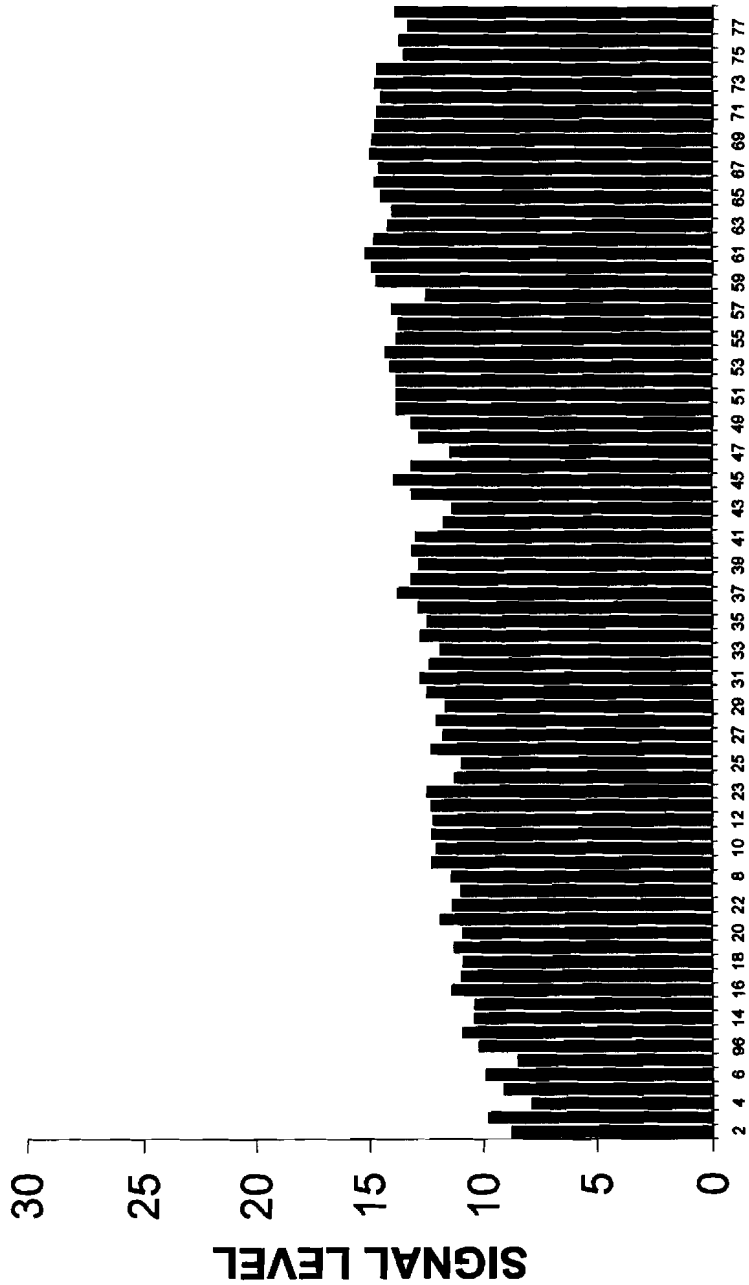


### Signal Level Variance

The ranges allowed by the FCC (76.605 (a)(4)(i,ii,iii)) are as follows:

4. Each level shall not vary by more than 8dB within any 6-month interval.
  - i. Adjacent channel level to be within 3dB of each other.
  - ii. Visual signal level on any other channel on a cable television system should be less than 10dB for systems of up to 300 MHz; for each additional 100 MHz, add 1dB to maximum difference level.
  - iii. A maximum level such that signal degradation due to overload in the subscriber's Receiver or terminal does not occur.

TEST POINT #5



CHANNEL

The maximum signal level is 18.9 dBmV

The maximum adjacent channel level difference is 2.3 dBmV  
The maximum level difference between the highest and lowest is 7.4 dBmV  
The maximum six month variance is 4.4 dBmV

### Test Point #5

**Comcast**

1121 Allison St.

24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571

Date: 02/18/06

Run	1				2				3				4				
	Time: 00:34:21				Time: 06:34:06				Time: 12:31:55				Time: 18:32:18				
Temp	35				31				37				35				
Chan	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	24 HR Vid Diff
2	8.8	14.7		-0.9	8.8	13.4		-1.0	8.9	13.5		-0.8	9.1	13.4		-0.7	0.3
3	9.8	14.8	1.0	0.3	9.8	15.7	1.0	0.3	9.9	15.6	1.0	0.4	10.3	15.6	1.2	0.9	0.5
4	7.9	15.9	-1.9	-1.0	10.4	15.3	0.6	1.6	10.4	15.2	0.5	1.4	10.9	15.6	0.6	2.0	3.0
5	9.1	13.5	1.2	0.2	9.1	14.9	-1.3	-0.1	9.7	15.2	-0.7	0.5	9.4	14.8	-1.5	0.3	0.6
6	9.9	15.1	0.8	0.9	9.8	14.9	0.7	0.7	9.6	14.6	-0.1	0.6	10.1	14.8	0.7	1.0	0.5
95	8.5	15.2	-1.4	-1.4	10.4	15.3	0.6	0.5	10.4	15.2	0.8	0.2	10.6	15.2	0.5	0.4	2.1
96	10.2	15.2	1.7	-0.3	10.2	15.2	-0.2	-0.2	10.4	15.2	0.0	-0.2	10.5	15.2	-0.1	0.0	0.3
99	10.9	15.3	0.7	0.5	10.8	15.2	0.6	0.4	10.9	15.1	0.5	0.4	11.3	15.2	0.8	0.8	0.5
14	10.4	14.5	-0.5	0.4	10.4	14.3	-0.4	0.2	10.5	14.3	-0.4	0.3	10.7	14.3	-0.6	0.4	0.3
15	10.4	15.1	0.0	0.7	10.3	15.0	-0.1	0.7	10.6	15.2	0.1	1.0	10.6	15.0	-0.1	0.7	0.3
16	11.4	15.7	1.0	1.5	11.1	15.7	0.8	0.6	11.4	18.9	0.8	1.1	11.7	15.7	1.1	1.3	0.6
17	11.0	14.6	-0.4	0.8	11.1	14.7	0.0	0.8	11.1	14.6	-0.3	0.6	11.4	14.6	-0.3	1.0	0.4
18	10.9	16.0	-0.1	1.2	10.8	15.8	-0.3	0.9	11.0	15.8	-0.1	1.3	11.2	15.8	-0.2	1.2	0.4
19	11.3	15.3	0.4	1.1	11.4	15.3	0.6	3.3	11.2	15.0	0.2	0.9	11.6	15.2	0.4	1.5	0.4
20	10.9	14.2	-0.4	1.0	10.9	14.2	-0.5	1.1	11.2	14.4	0.0	1.2	11.5	14.5	-0.1	1.6	0.6
21	11.9	15.4	1.0	1.2	11.9	15.4	1.0	1.3	12.0	15.3	0.8	1.1	12.4	15.4	0.9	1.6	0.5
22	11.4	14.7	-0.5	0.7	11.4	14.8	-0.5	0.6	11.7	15.0	-0.3	1.0	12.0	15.0	-0.4	1.2	0.6
7	11.0	13.8	-0.4	1.3	11.0	13.8	-0.4	1.2	10.9	13.5	-0.8	0.9	11.6	13.8	-0.4	1.6	0.7
8	11.4	15.7	0.4	1.4	11.2	15.4	0.2	0.9	11.6	15.6	0.7	1.2	11.8	15.5	0.2	1.5	0.6
9	12.3	14.8	0.9	2.5	11.6	14.1	0.4	2.0	13.9	16.4	2.3	3.9	13.0	15.0	1.2	3.3	2.3
10	12.1	14.8	-0.2	1.4	12.3	15.0	0.7	1.7	12.3	14.5	-1.6	1.7	12.7	15.0	-0.3	1.9	0.6
11	12.3	15.2	0.2	0.8	12.5	15.4	0.2	1.0	12.7	15.6	0.4	1.1	13.0	15.5	0.3	1.4	0.7
12	12.2	14.7	-0.1	0.7	12.2	14.9	-0.3	0.7	12.6	15.1	-0.1	0.8	12.7	14.8	-0.3	0.8	0.5
13	12.3	15.3	0.1	0.8	12.3	15.2	0.1	0.5	12.6	15.3	0.0	1.0	13.0	15.6	0.3	1.2	0.7
23	12.5	15.9	0.2	1.8	12.6	16.2	0.3	2.0	12.7	15.9	0.1	1.8	13.0	16.1	0.0	2.2	0.5
24	11.3	14.4	-1.2	1.6	11.6	14.8	-1.0	1.2	11.7	14.7	-1.0	1.4	12.3	14.8	-0.7	2.3	1.0
25	11.0	15.0	-0.3	1.6	10.9	14.8	-0.7	1.5	11.2	14.9	-0.5	1.6	11.6	15.1	-0.7	2.3	0.7
26	12.3	15.5	1.3	1.5	12.1	15.2	1.2	1.2	12.4	15.4	1.2	1.4	12.8	15.5	1.2	1.9	0.7
27	11.8	14.0	-0.5	1.5	11.7	14.3	-0.4	1.4	11.9	14.5	-0.5	1.5	12.2	14.5	-0.6	1.9	0.5
28	12.1	15.1	0.3	0.7	12.0	15.1	0.3	0.7	12.2	15.1	0.3	0.9	12.5	15.1	0.3	1.3	0.5
29	11.7	14.5	-0.4	1.2	12.0	14.9	0.0	1.4	12.1	14.8	-0.1	1.4	12.4	14.7	-0.1	1.7	0.7
30	12.5	14.9	0.8	1.5	12.7	15.2	0.7	1.8	12.7	15.0	0.6	1.7	13.1	15.0	0.7	2.2	0.6
31	12.8	15.4	0.3	1.6	12.8	15.4	0.1	1.4	13.0	15.5	0.3	1.5	13.3	15.4	0.2	1.8	0.5
32	12.4	14.6	-0.4	1.3	12.1	14.3	-0.7	1.2	12.5	14.5	-0.5	1.1	12.9	14.7	-0.4	1.6	0.8



**Test Point #5**



1121 Allison St.

24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571

Date: 02/18/06

Run	1				2				3				4				
	Time: 00:34:21				Time: 06:34:06				Time: 12:31:55				Time: 18:32:18				
Temp	35				31				37				35				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
33	11.9	14.6	-0.5	1.8	11.9	14.5	-0.2	1.6	12.0	14.5	-0.5	1.4	12.4	14.5	-0.5	2.1	0.5
34	12.8	15.7	0.9	1.7	13.0	15.8	1.1	1.8	13.0	15.8	1.0	1.8	13.6	16.0	1.2	2.5	0.8
35	12.5	15.1	-0.3	1.4	12.5	14.9	-0.5	1.5	12.7	15.2	-0.3	1.3	13.0	15.0	-0.6	1.8	0.5
36	12.9	14.8	0.4	1.6	12.9	14.6	0.4	1.7	13.1	14.7	0.4	1.7	13.5	14.8	0.5	2.0	0.6
37	13.8	15.4	0.9	1.1	13.7	15.3	0.8	1.1	13.9	15.3	0.8	1.1	14.3	15.2	0.8	1.6	0.6
38	13.2	14.9	-0.6	1.7	13.3	15.1	-0.4	0.9	13.4	15.0	-0.5	1.0	13.8	14.9	-0.5	1.7	0.6
39	12.9	15.3	-0.3	1.3	13.1	15.5	-0.2	1.4	13.2	15.3	-0.2	1.4	13.5	15.5	-0.3	1.9	0.6
40	13.2	15.4	0.3	1.4	13.2	15.4	0.1	1.5	13.1	15.1	-0.1	1.0	13.7	15.5	0.2	1.9	0.6
41	13.0	14.4	-0.2	1.1	13.3	14.9	0.1	1.4	13.4	14.9	0.3	1.5	13.6	14.7	-0.1	1.6	0.6
42	11.8	15.5	-1.2	1.3	11.7	15.4	-1.6	1.1	11.8	15.2	-1.6	1.2	12.2	15.3	-1.4	1.6	0.5
43	11.4	15.5	-0.4	1.6	11.3	15.3	-0.4	1.2	11.6	15.6	-0.2	1.3	12.1	15.8	-0.1	2.1	0.8
44	13.2	14.6	1.8	2.7	13.2	14.6	1.9	2.6	13.4	14.7	1.8	2.7	13.6	14.6	1.5	3.0	0.4
45	14.0	15.8	0.8	2.5	13.9	15.8	0.7	2.5	14.3	16.1	0.9	2.7	14.3	15.8	0.7	2.6	0.4
46	13.2	15.2	-0.8	1.5	13.4	15.4	-0.5	1.7	13.4	15.3	-0.9	1.6	13.6	15.1	-0.7	1.8	0.4
47	11.5	14.9	-1.7	1.4	11.5	14.9	-1.9	1.1	11.6	15.0	-1.8	1.1	12.2	15.2	-1.4	1.8	0.7
48	12.9	14.6	1.4	1.4	12.8	14.4	1.3	1.1	12.9	14.4	1.3	1.3	13.6	14.9	1.4	1.8	0.8
49	13.2	14.6	0.3	1.4	13.1	14.6	0.3	1.2	13.5	14.9	0.6	1.4	13.5	14.6	-0.1	1.5	0.4
50	13.9	14.9	0.7	1.6	13.9	15.0	0.8	1.5	13.9	14.8	0.4	1.5	14.1	14.8	0.6	1.7	0.2
51	13.9	15.0	0.0	1.8	14.1	15.2	0.2	1.9	14.2	15.1	0.3	1.9	14.5	15.1	0.4	2.2	0.6
52	13.9	14.3	0.0	1.8	14.1	14.5	0.0	2.0	14.0	14.2	-0.2	1.8	14.3	14.2	-0.2	2.3	0.4
53	14.2	14.4	0.3	1.8	13.9	14.0	-0.2	1.5	14.0	13.9	0.0	1.4	14.4	14.1	0.1	2.1	0.5
54	14.4	14.8	0.2	1.7	14.5	15.0	0.6	1.7	14.6	14.9	0.6	1.5	14.7	14.6	0.3	2.1	0.3
55	13.9	14.6	-0.5	1.4	14.0	14.9	-0.5	1.4	14.1	14.9	-0.5	1.3	14.4	14.7	-0.3	1.8	0.5
56	13.8	14.3	-0.1	1.3	13.8	14.5	-0.2	1.2	14.1	14.7	0.0	1.3	14.6	14.5	0.2	2.0	0.8
57	14.1	14.1	0.3	1.2	14.1	14.0	0.3	0.9	14.4	14.4	0.3	1.1	14.9	14.4	0.3	1.7	0.8
58	12.6	14.8	-1.5	1.6	12.6	14.7	-1.5	1.7	12.7	14.7	-1.7	1.6	13.3	14.8	-1.6	2.2	0.7
59	14.8	15.6	2.2	1.7	14.7	15.5	2.1	1.7	15.0	15.6	2.3	1.6	15.2	15.1	1.9	2.0	0.5
60	15.0	15.0	0.2	2.4	15.0	15.0	0.3	2.5	15.0	14.9	0.0	2.4	15.5	15.0	0.3	2.9	0.5
61	15.3	15.4	0.3	2.5	15.5	15.7	0.5	2.9	15.3	15.3	0.3	2.2	15.7	15.3	0.2	2.9	0.4
62	14.9	15.8	-0.4	2.4	14.9	15.8	-0.6	2.3	15.1	15.9	-0.2	2.6	15.6	15.8	-0.1	3.1	0.7
63	14.3	15.7	-0.6	2.7	14.1	15.5	-0.8	2.2	14.4	15.6	-0.7	2.6	14.9	15.8	-0.7	3.3	0.8
64	14.1	15.2	-0.2	2.8	14.1	15.2	0.0	2.8	14.3	15.4	-0.1	2.8	14.9	15.2	0.0	3.6	0.8
65	14.6	15.2	0.5	3.1	14.6	14.9	0.5	3.2	14.8	15.4	0.5	3.1	15.0	14.9	0.1	3.5	0.4
66	14.9	14.6	0.3	3.4	14.8	14.5	0.2	3.2	15.1	14.8	0.3	3.2	15.8	15.0	0.8	4.3	1.0
67	14.7	14.7	-0.2	2.5	14.6	14.7	-0.2	2.2	14.7	14.7	-0.4	1.8	15.4	14.8	-0.4	3.0	0.8
68	15.1	15.0	0.4	2.0	15.2	14.9	0.6	2.1	15.4	15.2	0.7	1.9	15.9	15.1	0.5	2.8	0.8
69	15.0	14.0	-0.1	2.4	14.7	13.7	-0.5	2.1	15.0	13.7	-0.4	2.1	15.3	13.8	-0.6	2.7	0.6
70	14.9	14.4	-0.1	1.7	14.9	14.6	0.2	1.5	15.1	14.7	0.1	1.6	15.5	14.6	0.2	2.1	0.6
71	14.8	14.7	-0.1	3.0	14.6	14.3	-0.3	2.7	14.8	14.7	-0.3	2.8	15.3	14.6	-0.2	3.2	0.7
72	14.6	15.5	-0.2	2.5	14.4	15.6	-0.2	2.5	14.5	15.3	-0.3	2.1	15.2	15.0	-0.1	2.8	0.8

**Test Point #5**



1121 Allison St.

24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571

Date: 02/18/06

Run	1				2				3				4				
	Time: 00:34:21				Time: 06:34:06				Time: 12:31:55				Time: 18:32:18				
Temp	35				31				37				35				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
73	14.9	15.4	0.3	2.5	14.6	15.0	0.2	2.1	15.0	15.4	0.5	2.6	15.5	15.2	0.3	2.9	0.9
74	14.8	15.1	-0.1	2.4	14.8	15.1	0.2	2.3	14.8	14.8	-0.2	2.0	15.3	14.9	-0.2	2.6	0.5
75	13.6	14.9	-1.2	1.3	13.7	14.9	-1.1	1.3	13.9	15.0	-0.9	1.3	14.2	15.0	-1.1	1.8	0.6
76	13.8	14.8	0.2	2.7	13.8	14.8	0.1	2.7	13.9	15.0	0.0	2.6	14.4	15.2	0.2	3.4	0.6
77	13.4	15.3	-0.4	3.9	13.4	15.5	-0.4	3.8	13.4	16.0	-0.5	3.6	13.9	15.4	-0.5	4.4	0.5
78	14.0	15.7	-1.0	4.1	14.1	15.0	-0.6	3.1	14.2	15.7	-0.8	3.1	14.6	15.6	-0.7	3.4	0.6
Min Value	7.9	13.5	-1.9	-1.4	8.8	13.4	-1.9	-1.0	8.9	13.5	-1.8	-0.8	9.1	13.4	-1.6	-0.7	0.2
Max Value	15.3	16.0	2.2	4.1	15.5	16.2	2.1	3.8	15.4	18.9	2.3	3.9	15.9	16.1	1.9	4.4	3.0

Notes:

\*1 - Station off air - standby by carrier in use

\*2 - New channel addition there is no 6 month reference



## Distortion Measurements

Comcast of Alexandria, VA performed distortion tests at 11 test points, as required by the FCC (76.601 (c)(1)), which states that at least 6 test points for the first 12,500 subscribers, adding 1 test point for each additional 12,500 subscribers. Comcast of Alexandria's subscriber count is 49,199 as of 01/01/06. All of Comcast's test points are distributed through the outer edges of the county at its farthest node locations, with the test points being at the end-of-line. Which meets the requirement that all geographic areas be represented and at least 1/3 of the test points being the most distant points in the system. At each test point, 9 channels were tested for distortions as required by the FCC (76.601(c)(2)), which states at least 4 channels must be tested at each test point, adding 1 channel for each 100 MHz block above 100 MHz. Comcast of Arlington's analog bandwidth is 550 MHz.

### **Current FCC distortion specifications are as follows:**

The C/N measurement (76.605 (a)(7)(ii)) shall not be less than 43dB.

The CTB, CSO and X-mod measurements (76.605 (a)(8)(I)) shall not be less than 51dB.

The HUM measurement (76.605(a)(10)) shall not exceed 3.0%.

The Aural Carrier Difference (4.5 Difference)(76.605 (a)(2)) must be 4.5 MHz above the Visual Carrier, +/- 5KHz.

The In-Channel Frequency Response (In-Band Frequency Response) (76.605 (a)(6)) should not vary by more than +/- 2dB.

**Test Point #6**

**Comcast**  
 901 N. Kemper St.  
 Alexandria, VA  
 FCC Distortion Measurements  
 EQUIPMENT USED:  
 H/P 8591C, S/N 3916A04384  
 Pre-Amplifier 85905A, S/N 6093-0551  
 Cybertec Examiner 101129-001  
 CONVERTER BOX SA 8511, S/N GF505BFDN

Date: 02/16/06 Time: 2:00 pm Temp: 43

CH.	FREQ. RSP 2dB Max	HUM% 3% Max	CSO 51dB Min	CTB 51dB Min	C/N 43dB Min	4.5 DIFF 5KHz Max
2	0.7	1.7	68.9	68.1	48.7	4.5000
95	0.3	0.9	65.5	60.3	47.7	4.5000
21	0.5	1.3	68.4	71.1	50.5	4.5000
8	0.8	1.1	69.5	64.4	48.9	4.5000
28	1.3	1.1	69.8	68.3	50.6	4.5000
32	1.3	1.1	68.5	66.7	50.6	4.5000
47	1.4	0.9	69.3	66.1	51.5	4.5000
58	1.3	1	73.1	68.1	51.1	4.5000
72	1.2	1.3	65.9	67.1	47.9	4.4999
Minimum values:						
	0.3	0.9	65.5	60.3	47.7	4.4999
Maximum values:						
	1.4	1.7	73.1	71.1	51.5	4.5000

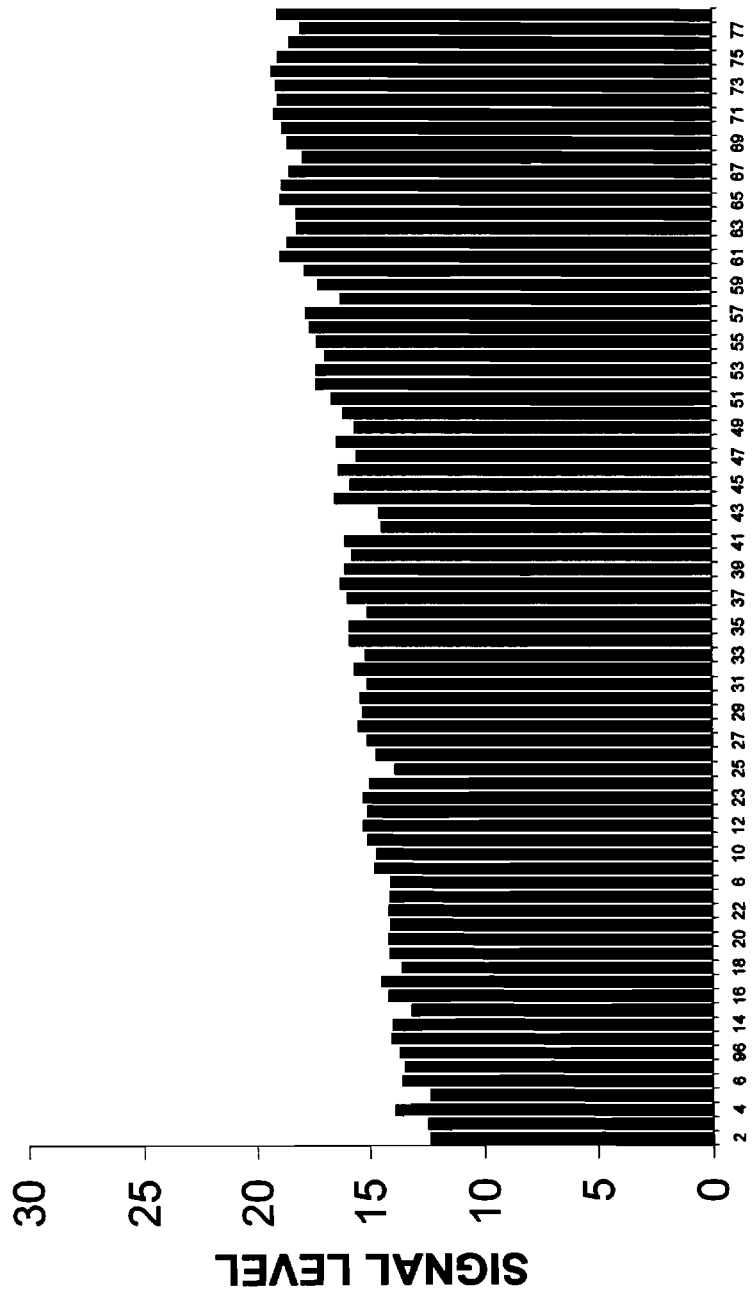


### Signal Level Variance

The ranges allowed by the FCC (76.605 (a)(4)(i,ii,iii)) are as follows:

4. Each level shall not vary by more than 8dB within any 6-month interval.
  - i. Adjacent channel level to be within 3dB of each other.
  - ii. Visual signal level on any other channel on a cable television system should be less than 10dB for systems of up to 300 MHz; for each additional 100 MHz, add 1dB to maximum difference level.
  - iii. A maximum level such that signal degradation due to overload in the subscriber's Receiver or terminal does not occur.

**TEST POINT #6**



**CHANNEL**

The maximum signal level is 19.5 dBmV

The maximum adjacent channel level difference is 2.2 dBmV  
The maximum level difference between the highest and lowest is 7.1 dBmV  
The maximum six month variance is 7.3 dBmV

**Test Point #6**



901 N. Kemper St.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571

Date: 02/18/06

Run	1				2				3				4				
	Time: 00:11:57				Time: 06:14:12				Time: 12:10:26				Time: 18:11:46				
Temp	35				33				37				29				
Chan	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	24 HR Vid Diff
2	12.4	13.7		1.7	12.4	13.9		1.8	12.2	13.6		5.0	12.5	13.5		5.2	0.3
3	12.5	14.1	0.1	2.3	13.1	14.9	0.7	3.1	12.8	14.7	0.6	5.9	13.4	14.9	0.9	6.5	0.9
4	13.9	15.1	1.4	4.1	13.2	14.4	0.1	3.4	13.7	15.0	0.9	7.3	13.4	14.4	0.0	6.6	0.7
5	12.4	14.4	-1.5	2.4	12.9	14.9	-0.3	2.8	12.6	14.9	-1.1	4.9	12.9	14.7	-0.5	5.2	0.5
6	13.6	15.5	1.2	3.3	13.7	15.5	0.8	3.7	13.4	15.3	0.8	5.1	13.7	15.4	0.8	5.7	0.3
95	13.5	15.5	-0.1	2.4	13.5	14.9	-0.2	2.4	13.6	15.1	0.2	4.3	13.1	15.1	-0.6	3.8	0.5
96	13.7	15.0	0.2	2.4	13.7	14.9	0.2	2.4	13.5	14.8	-0.1	4.1	13.9	14.9	0.8	4.5	0.4
99	14.1	15.0	0.4	3.1	14.2	15.2	0.5	3.2	14.2	15.2	0.7	4.2	14.5	15.0	0.6	4.4	0.4
14	14.0	15.3	-0.1	3.1	13.9	15.1	-0.3	3.0	13.8	15.0	-0.4	3.9	14.3	15.3	-0.2	4.5	0.5
15	13.2	14.9	-0.8	3.3	13.2	14.8	-0.7	3.2	13.0	14.8	-0.8	3.9	13.5	14.8	-0.8	4.5	0.5
16	14.2	15.4	1.0	3.5	14.1	15.9	0.9	3.2	13.8	15.8	0.8	6.1	14.3	16.3	0.8	4.2	0.5
17	14.5	15.4	0.3	3.2	14.3	15.0	0.2	3.1	14.1	15.1	0.3	4.1	14.5	14.9	0.2	3.3	0.4
18	13.6	14.7	-0.9	3.5	13.6	14.6	-0.7	3.5	13.6	15.1	-0.5	3.8	13.9	15.0	-0.6	4.0	0.3
19	14.1	15.0	0.5	3.5	14.2	15.2	0.6	5.9	14.7	15.8	1.1	4.7	14.7	15.3	0.8	4.7	0.6
20	14.2	15.3	0.1	3.8	14.1	15.1	-0.1	4.0	13.9	15.1	-0.8	3.5	14.5	15.1	-0.2	4.1	0.6
21	14.1	14.6	-0.1	3.3	14.2	14.7	0.1	3.6	13.9	14.6	0.0	2.6	14.5	14.7	0.0	3.3	0.6
22	14.2	14.6	0.1	3.0	14.3	14.6	0.1	3.0	14.3	14.9	0.4	2.5	14.6	14.7	0.1	2.8	0.4
7	14.1	14.5	-0.1	3.2	14.1	14.3	-0.2	3.3	13.8	14.1	-0.5	2.6	14.9	14.7	0.3	3.8	1.1
8	14.1	15.2	0.0	3.8	14.1	15.0	0.0	3.8	13.9	15.0	0.1	3.1	14.5	15.2	-0.4	3.8	0.6
9	14.8	14.9	0.7	4.2	15.4	15.3	1.3	4.8	15.0	15.3	1.1	3.8	15.7	15.4	1.2	4.3	0.9
10	14.7	14.8	-0.1	3.2	14.8	14.4	-0.6	3.4	14.7	14.7	-0.3	2.2	15.4	15.1	-0.3	2.8	0.7
11	15.1	15.0	0.4	3.1	15.2	15.1	0.4	3.3	15.0	15.1	0.3	1.8	15.5	15.1	0.1	2.5	0.5
12	15.3	15.4	0.2	3.4	15.1	15.0	-0.1	3.2	14.9	15.0	-0.1	2.1	15.6	15.3	0.1	2.7	0.7
13	15.1	15.0	-0.2	3.3	15.3	15.2	0.2	3.5	15.0	15.2	0.1	2.1	15.6	15.2	0.0	2.8	0.6
23	15.3	15.4	0.2	4.5	15.2	15.1	-0.1	4.4	14.7	14.8	-0.3	2.7	15.6	15.2	0.0	3.4	0.9
24	15.0	15.1	-0.3	3.8	14.9	15.1	-0.3	3.3	14.8	15.0	0.1	2.1	15.5	14.8	-0.1	2.9	0.7
25	13.9	14.9	-1.1	4.5	13.9	14.9	-1.0	3.9	13.9	15.1	-0.9	2.4	14.4	15.1	-1.1	2.9	0.5
26	14.7	15.0	0.8	3.8	15.0	15.4	1.1	4.0	14.9	15.3	1.0	2.7	15.3	15.2	0.9	3.0	0.6
27	15.1	15.0	0.4	4.1	15.2	14.9	0.2	4.3	15.2	15.1	0.3	2.8	15.7	15.3	0.4	3.3	0.6
28	15.5	15.3	0.4	3.5	15.5	15.2	0.3	3.4	15.5	15.2	0.3	1.4	15.9	15.2	0.2	2.0	0.4
29	15.3	15.2	-0.2	3.7	15.1	14.9	-0.4	3.6	15.0	14.9	-0.5	1.4	15.5	15.0	-0.4	1.8	0.5
30	15.4	15.2	0.1	3.9	15.4	15.2	0.3	3.7	15.2	15.1	0.2	1.9	15.9	15.3	0.4	2.4	0.7
31	15.1	14.6	-0.3	4.0	15.3	14.8	-0.1	4.3	15.0	14.7	-0.2	2.3	15.6	14.7	-0.3	3.1	0.6
32	15.7	15.1	0.6	4.1	15.8	15.2	0.5	4.2	15.6	15.0	0.6	2.0	16.1	15.0	0.5	2.2	0.5

**Test Point #6**

**Comcast**

901 N. Kemper St.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571 Date: 02/18/06

Run	1				2				3				4				
	Time: 00:11:57				Time: 06:14:12				Time: 12:10:28				Time: 18:11:46				
Temp	35				33				37				29				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
33	15.2	14.9	-0.5	3.6	15.4	15.1	-0.4	3.8	15.3	15.0	-0.3	1.6	15.8	15.1	-0.3	2.1	0.6
34	15.9	15.0	0.7	4.0	15.9	15.0	0.5	4.1	15.9	15.1	0.6	1.7	16.4	15.2	0.6	2.3	0.5
35	15.9	15.5	0.0	3.9	15.7	15.2	-0.2	3.6	15.5	15.1	-0.4	1.5	16.1	15.2	-0.3	2.0	0.6
36	15.1	14.3	-0.8	3.6	15.4	14.5	-0.3	3.9	15.3	14.6	-0.2	2.1	15.8	14.5	-0.3	2.6	0.7
37	16.0	14.8	0.9	3.7	16.0	14.9	0.6	3.9	15.9	14.7	0.6	1.5	16.2	14.6	0.4	1.5	0.3
38	16.3	15.2	0.3	4.0	16.4	15.3	0.4	4.2	16.2	15.3	0.3	1.7	16.6	15.1	0.4	2.1	0.4
39	16.1	14.9	-0.2	3.4	16.0	14.9	-0.4	3.3	16.1	15.0	-0.1	0.7	16.5	14.9	-0.1	1.2	0.5
40	15.8	14.9	-0.3	3.8	15.8	14.8	-0.2	3.8	15.7	14.9	-0.4	1.3	16.3	15.0	-0.2	2.1	0.6
41	16.1	15.0	0.3	3.8	16.1	15.0	0.3	3.8	15.6	14.6	-0.1	1.0	16.3	14.8	0.0	1.7	0.7
42	14.5	14.7	-1.6	3.7	14.6	14.8	-1.5	3.9	14.3	14.6	-1.3	1.0	14.9	14.8	-1.4	1.7	0.6
43	14.6	15.5	0.1	3.4	14.6	15.4	0.0	3.1	14.2	15.1	-0.1	-0.1	15.1	15.5	0.2	0.9	0.9
44	16.6	15.5	2.0	4.2	16.5	15.5	1.9	4.2	16.4	15.5	2.2	1.7	16.9	15.5	1.8	2.3	0.5
45	15.9	14.7	-0.7	4.6	15.6	14.4	-0.9	4.2	15.7	14.5	-0.7	2.3	16.2	14.6	-0.7	2.5	0.6
46	16.4	14.7	0.5	4.2	16.3	14.5	0.7	4.2	16.1	14.5	0.4	1.2	16.7	14.7	0.5	1.8	0.6
47	15.6	15.8	-0.8	4.6	15.4	15.5	-0.9	4.2	15.3	15.5	-0.8	0.6	15.7	15.4	-1.0	1.2	0.4
48	16.5	15.8	0.9	3.7	16.3	15.6	0.9	3.4	16.5	16.1	1.2	0.7	17.0	16.0	1.3	1.4	0.7
49	15.7	14.7	-0.8	2.5	15.8	14.9	-0.5	2.6	15.6	14.7	-0.9	-0.2	15.5	14.3	-1.5	-0.5	0.3
50	16.2	14.6	0.5	3.9	16.1	14.4	0.3	3.9	16.2	14.7	0.6	1.0	16.4	14.6	0.9	1.2	0.3
51	16.7	14.1	0.5	3.8	16.8	14.1	0.7	3.9	16.5	14.0	0.3	0.8	17.2	14.3	0.8	1.5	0.7
52	17.4	14.7	0.7	3.4	17.4	14.8	0.6	3.1	17.4	15.0	0.9	0.2	17.7	14.8	0.5	0.3	0.3
53	17.4	15.0	0.0	3.1	17.3	14.9	-0.1	2.8	17.2	14.8	-0.2	-0.2	17.8	15.0	0.1	0.4	0.6
54	17.0	14.3	-0.4	3.9	16.9	14.2	-0.4	3.7	16.7	14.2	-0.5	0.7	17.1	14.2	-0.7	1.0	0.4
55	17.4	14.7	0.4	3.6	17.2	14.5	0.3	3.6	17.2	14.6	0.5	0.8	17.4	14.4	0.3	1.0	0.2
56	17.7	14.2	0.3	3.5	17.8	14.5	0.6	3.7	17.7	14.3	0.5	0.7	18.1	13.9	0.7	1.1	0.4
57	17.9	14.3	0.2	3.1	18.2	14.7	0.4	3.4	18.1	14.6	0.4	0.3	18.4	14.6	0.3	0.6	0.5
58	16.3	15.6	-1.6	3.5	16.3	15.5	-1.9	3.6	16.1	15.4	-2.0	0.1	16.5	15.1	-1.9	0.7	0.4
59	17.3	14.3	1.0	3.9	17.3	14.4	1.0	3.8	17.3	14.5	1.2	1.1	17.7	14.5	1.2	1.5	0.4
60	17.9	14.2	0.6	4.9	18.1	14.4	0.8	5.2	17.9	14.3	0.6	1.6	18.6	14.6	0.9	2.6	0.7
61	19.0	16.0	1.1	4.8	19.0	16.0	0.9	4.5	19.0	16.0	1.1	1.4	19.3	15.9	0.7	1.7	0.3
62	18.7	15.8	-0.3	4.7	18.6	15.6	-0.4	4.4	18.6	15.6	-0.4	0.9	19.0	15.7	-0.3	1.4	0.4
63	18.3	15.2	-0.4	3.8	18.2	15.2	-0.4	3.9	18.0	14.9	-0.6	0.2	18.5	15.1	-0.5	0.8	0.5
64	18.3	14.9	0.0	4.4	18.5	15.1	0.3	4.5	18.3	14.9	0.3	1.3	18.8	14.9	0.3	1.8	0.5
65	19.0	15.2	0.7	4.9	18.7	14.9	0.2	4.7	18.5	14.8	0.2	1.2	19.1	14.9	0.3	1.7	0.6
66	18.9	15.3	-0.1	4.1	19.0	15.3	0.3	4.4	18.8	15.3	0.3	0.8	19.4	15.3	0.3	1.6	0.6
67	18.6	15.9	-0.3	3.5	18.5	15.8	-0.5	3.5	18.2	15.5	-0.6	-0.4	19.1	15.6	-0.3	0.6	0.9
68	18.0	14.6	-0.6	2.8	18.0	14.6	-0.5	2.6	17.9	14.4	-0.3	-0.5	18.8	14.5	-0.3	0.2	0.9
69	18.7	13.4	0.7	3.2	18.6	13.9	0.6	3.0	18.5	14.0	0.6	0.1	19.3	14.2	0.5	0.6	0.8
70	18.9	14.1	0.2	2.9	19.0	14.2	0.4	3.1	19.0	14.3	0.5	-0.3	19.5	14.5	0.2	0.2	0.6
71	19.3	14.8	0.4	4.2	19.2	14.8	0.2	4.2	19.1	14.7	0.1	0.6	19.3	14.7	-0.2	0.9	0.2
72	19.1	15.1	-0.2	3.9	18.2	14.4	-1.0	2.8	18.6	16.8	-0.5	0.1	18.4	15.3	-0.9	-0.1	0.9



**Test Point #6**



901 N. Kemper St.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571 Date: 02/18/06

Run	1				2				3				4				
	Time: 00:11:57				Time: 06:14:12				Time: 12:10:26				Time: 18:11:46				
Temp	35				33				37				29				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
73	19.2	14.9	0.1	4.0	19.0	14.9	0.8	3.8	19.0	15.0	0.4	0.6	18.7	14.7	0.3	0.2	0.5
74	19.4	14.9	0.2	4.0	19.3	14.9	0.3	3.7	19.3	14.7	0.3	0.4	19.2	14.6	0.5	0.3	0.2
75	19.1	15.6	-0.3	3.3	19.1	15.6	-0.2	3.4	19.2	15.8	-0.1	-0.1	19.1	15.6	-0.1	-0.4	0.1
76	18.6	14.7	-0.5	4.1	18.7	14.8	-0.4	4.3	18.8	14.8	-0.4	0.7	18.8	14.6	-0.3	0.8	0.2
77	18.1	15.7	-0.5	5.1	18.0	17.0	-0.7	4.9	17.9	15.9	-0.9	1.2	18.3	15.3	-0.5	1.3	0.4
78	19.1	15.6	0.4	4.7	19.0	15.0	0.4	4.8	18.6	15.5	0.1	0.8	19.4	15.4	0.1	2.0	0.8
Min Value	12.4	13.4	-1.6	1.7	12.4	13.9	-1.9	1.8	12.2	13.6	-2.0	-0.5	12.5	13.5	-1.9	-0.5	0.1
Max Value	19.4	16.0	2.0	5.1	19.3	17.0	1.9	5.9	19.3	16.8	2.2	7.3	19.5	16.3	1.8	6.6	1.1

Notes:

\*1 - Station off air - standby by carrier in use

\*2 - New channel addition there is no 6 month reference



## Distortion Measurements

Comcast of Alexandria, VA performed distortion tests at 11 test points, as required by the FCC (76.601 (c)(1)), which states that at least 6 test points for the first 12,500 subscribers, adding 1 test point for each additional 12,500 subscribers. Comcast of Alexandria's subscriber count is 49,199 as of 01/01/06. All of Comcast's test points are distributed through the outer edges of the county at its farthest node locations, with the test points being at the end-of-line. Which meets the requirement that all geographic areas be represented and at least 1/3 of the test points being the most distant points in the system. At each test point, 9 channels were tested for distortions as required by the FCC (76.601(c)(2)), which states at least 4 channels must be tested at each test point, adding 1 channel for each 100 MHz block above 100 MHz. Comcast of Arlington's analog bandwidth is 550 MHz.

### **Current FCC distortion specifications are as follows:**

The C/N measurement (76.605 (a)(7)(ii)) shall not be less than 43dB.


The CTB, CSO and X-mod measurements (76.605 (a)(8)(I)) shall not be less than 51dB.

The HUM measurement (76.605(a)(10)) shall not exceed 3.0%.

The Aural Carrier Difference (4.5 Difference)(76.605 (a)(2)) must be 4.5 MHz above the Visual Carrier, +/- 5KHz.

The In-Channel Frequency Response (In-Band Frequency Response) (76.605 (a)(6)) should not vary by more than +/- 2dB.

**Test Point #7**

  
 528 Bellvue Pl.  
 Alexandria, VA  
 FCC Distortion Measurements  
 EQUIPMENT USED:  
 H/P 8591C, S/N 3916A04384  
 Pre-Amplifier 85905A, S/N 6093-0551  
 Cybertec Examiner 101129-001  
 CONVERTER BOX SA 8511, S/N GF505BFDN

Date: 02/16/06      Time: 11:05 am      Temp: 40

CH.	FREQ. RSP 2dB Max	HUM% 3% Max	CSO 51dB Min	CTB 51dB Min	C/N 43dB Min	4.5 DIFF 5KHz Max
2	0.5	1.9	67.5	67	47.4	4.5001
95	0.4	1.2	66.3	66.2	45.8	4.5000
21	0.7	1.3	66.7	65.4	48.6	4.5001
8	1.3	1.1	68.1	67.4	48.4	4.5001
28	1	1.9	67.6	65.6	48.5	4.4999
32	0.7	1.5	69.3	67.6	48.4	4.5000
47	0.8	1.4	64.5	71	48.2	4.5001
58	0.8	1.1	66	66.3	48.7	4.5000
72	0.5	1.6	64.5	67.9	46.1	4.4999
Minimum values:	0.4	1.1	64.5	65.4	45.8	4.4999
Maximum values:	1.3	1.9	69.3	71.0	48.7	4.5001



### Signal Level Variance

The ranges allowed by the FCC (76.605 (a)(4)(i,ii,iii)) are as follows:

4. Each level shall not vary by more than 8dB within any 6-month interval.
  - i. Adjacent channel level to be within 3dB of each other.
  - ii. Visual signal level on any other channel on a cable television system should be less than 10dB for systems of up to 300 MHz; for each additional 100 MHz, add 1dB to maximum difference level.
  - iii. A maximum level such that signal degradation due to overload in the subscriber's Receiver or terminal does not occur.

TEST POINT #7



CHANNEL

■ The maximum signal level is 18.2 dBmV

The maximum adjacent channel level difference is 2.8 dBmV  
The maximum level difference between the highest and lowest is 6.8 dBmV  
The maximum six month variance is 6.6 dBmV

**Test Point #7**

**Comcast**

528 Bellvue Pl.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571 Date: 02/18/06

Run	1				2				3				4				
	Time: 00:50:28				Time: 08:49:12				Time: 12:50:43				Time: 18:53:33				
Temp	35				33				37				30				
Chan	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	24 HR Vid Diff
2	13.8	13.5		-0.5	13.8	13.8		-0.5	13.9	13.6		-0.5	14.3	13.8		0.1	0.5
3	14.6	15.2	0.8	0.7	14.4	14.9	0.6	0.5	14.8	15.2	0.9	1.0	14.9	15.2	0.6	1.0	0.5
4	15.6	15.9	1.0	2.6	14.6	14.9	0.2	1.6	14.8	15.1	0.0	1.7	15.4	15.5	0.5	2.5	1.0
5	13.7	15.0	-1.9	0.7	12.9	15.7	-1.7	0.0	14.7	15.8	-0.1	1.7	14.3	15.1	-1.1	1.4	1.8
6	14.3	15.2	0.6	1.1	13.0	14.8	0.1	-0.3	14.5	15.4	-0.2	1.3	14.5	15.0	0.2	1.6	1.5
95	13.8	15.9	-0.5	-0.1	11.2	15.4	-1.8	-2.7	14.1	15.5	-0.4	0.0	14.1	14.8	-0.4	-0.2	2.9
96	14.5	15.2	0.7	0.3	14.0	15.1	2.8	-0.5	14.5	15.1	0.4	0.1	14.6	14.9	0.5	0.3	0.6
99	14.9	15.5	0.4	1.0	14.4	15.5	0.4	0.6	14.9	15.3	0.4	0.9	15.2	15.6	0.6	1.4	0.8
14	14.6	15.1	-0.3	1.0	14.2	15.1	-0.2	0.7	14.5	15.0	-0.4	0.7	14.6	14.9	-0.6	1.1	0.4
15	13.6	15.0	-1.0	1.4	13.2	15.0	-1.0	0.7	13.6	15.0	-0.9	1.0	14.1	15.4	-0.5	1.5	0.9
16	14.6	15.7	1.0	1.3	14.4	15.6	1.2	3.2	14.6	15.6	1.0	1.1	14.9	15.1	0.8	4.3	0.5
17	14.4	14.8	-0.2	0.8	14.4	15.0	0.0	0.8	14.6	14.9	0.0	0.9	14.8	15.0	-0.1	2.8	0.4
18	13.7	14.9	-0.7	1.5	13.4	14.9	-1.0	1.1	13.9	14.8	-0.7	1.5	13.9	14.8	-0.9	1.6	0.5
19	14.8	15.3	1.1	1.2	14.4	15.1	1.0	3.4	14.7	15.1	0.8	1.6	15.0	15.2	1.1	2.1	0.6
20	14.1	14.4	-0.7	1.5	13.8	14.4	-0.6	1.3	14.3	14.5	-0.4	1.7	14.4	14.5	-0.6	1.9	0.6
21	14.8	14.9	0.7	1.4	14.3	14.7	0.5	1.0	14.9	14.9	0.6	1.6	15.1	15.0	0.7	1.9	0.8
22	14.5	14.6	-0.3	1.1	14.1	14.3	-0.2	0.7	14.8	14.7	-0.1	1.4	14.9	14.7	-0.2	1.4	0.8
7	14.9	14.1	0.4	2.0	14.3	13.8	0.2	1.4	14.6	13.8	-0.2	1.7	15.3	14.3	0.4	2.4	1.0
8	14.8	15.2	-0.1	1.6	14.4	15.4	0.1	1.1	15.1	15.5	0.5	2.0	15.3	15.6	0.0	2.0	0.9
9	15.8	15.1	1.0	2.8	15.0	14.7	0.6	2.0	17.1	16.2	2.0	4.1	17.1	16.1	1.8	4.0	2.1
10	15.6	15.1	-0.2	1.6	15.4	15.1	0.4	1.4	15.7	15.0	-1.4	1.4	15.9	14.9	-1.2	1.8	0.5
11	15.3	14.9	-0.3	1.0	15.2	15.1	-0.2	0.9	15.7	15.2	0.0	1.2	15.9	15.0	0.0	1.4	0.7
12	15.3	14.4	0.0	0.7	15.3	14.8	0.1	0.5	15.6	14.6	-0.1	0.7	16.0	15.1	0.1	1.1	0.7
13	15.7	14.9	0.4	0.8	15.6	15.1	0.3	0.7	16.0	15.2	0.4	1.1	16.0	15.1	0.0	1.0	0.4
23	15.9	15.3	0.2	2.4	15.7	15.3	0.1	2.2	16.1	15.2	0.1	2.5	16.1	14.9	0.1	2.6	0.4
24	15.7	15.1	-0.2	1.9	15.4	15.0	-0.3	1.5	15.6	14.8	-0.5	2.1	16.1	15.3	0.0	2.5	0.7
25	14.4	14.7	-1.3	2.1	14.1	14.6	-1.3	1.8	14.6	14.7	-1.0	2.2	14.7	14.7	-1.4	2.7	0.6
26	15.8	15.6	1.4	1.7	15.7	15.6	1.6	1.7	16.2	15.8	1.6	2.2	16.2	15.6	1.5	2.2	0.5
27	15.4	14.6	-0.4	2.2	14.7	14.3	-1.0	1.4	15.6	14.7	-0.6	2.2	15.8	14.6	-0.4	2.5	1.1
28	15.8	15.3	0.4	1.2	15.6	15.3	0.9	1.0	16.0	15.3	0.4	1.3	16.1	15.2	0.3	1.5	0.5
29	15.3	14.9	-0.5	1.9	15.0	14.8	-0.6	1.4	15.7	15.1	-0.3	2.2	15.6	14.9	-0.5	2.2	0.7
30	15.4	14.8	0.1	1.8	15.1	14.7	0.1	1.7	15.5	14.8	-0.2	2.0	15.6	14.7	0.0	2.1	0.5
31	15.7	14.9	0.3	1.9	15.5	15.0	0.4	1.7	15.9	15.0	0.4	2.1	16.1	14.9	0.5	2.3	0.6
32	15.8	15.1	0.1	1.6	15.4	14.8	-0.1	1.5	15.8	14.8	-0.1	1.5	16.1	15.0	0.0	1.9	0.7

**Test Point #7**



528 Bellvue Pl.

24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571

Date: 02/18/06

Run	1				2				3				4				
	Time: 00:50:28				Time: 06:49:12				Time: 12:50:43				Time: 18:53:33				
Temp	35				33				37				30				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
33	15.0	14.7	-0.8	1.7	14.9	14.8	-0.5	1.9	15.4	14.9	-0.4	2.2	15.8	15.1	-0.3	2.8	0.9
34	15.9	15.5	0.9	2.5	15.7	15.5	0.8	2.5	16.1	15.3	0.7	2.6	16.2	15.3	0.4	2.8	0.5
35	15.4	14.5	-0.5	1.7	15.1	14.4	-0.6	1.5	15.6	14.6	-0.5	1.7	15.7	14.6	-0.5	2.1	0.6
36	15.3	14.7	-0.1	1.6	15.3	14.9	0.2	1.5	15.8	15.0	0.2	1.8	15.9	15.0	0.2	1.9	0.6
37	15.6	15.1	0.3	1.3	15.5	15.2	0.2	1.1	16.0	15.2	0.2	1.5	16.0	15.2	0.1	1.7	0.5
38	15.6	14.9	0.0	1.4	15.5	15.0	0.0	1.3	16.0	15.0	0.0	1.9	16.2	15.2	0.2	2.1	0.7
39	15.8	14.5	0.2	1.8	15.4	14.3	-0.1	1.3	16.1	14.3	0.1	2.2	16.3	14.5	0.1	2.4	0.9
40	15.6	15.2	-0.2	1.4	15.5	15.3	0.1	1.3	16.0	15.5	-0.1	1.9	16.2	15.5	-0.1	1.9	0.7
41	15.5	14.8	-0.1	1.3	15.3	14.6	-0.2	1.2	15.7	14.8	-0.3	1.5	15.7	14.8	-0.5	0.9	0.4
42	14.0	15.3	-1.5	1.8	13.7	15.0	-1.6	1.7	14.0	15.1	-1.7	2.1	14.0	15.1	-1.7	2.1	0.3
43	13.9	15.4	-0.1	1.6	13.8	15.4	0.1	1.5	14.3	15.7	0.3	2.0	14.3	15.6	0.3	2.2	0.5
44	15.8	14.6	1.9	3.0	15.6	14.5	1.8	3.0	16.0	14.6	1.7	3.2	16.3	14.6	2.0	3.5	0.7
45	16.0	14.9	0.2	2.9	16.0	14.9	0.4	2.9	16.1	14.9	0.1	2.8	16.4	15.0	0.1	3.2	0.4
46	16.3	15.2	0.3	2.1	16.3	15.2	0.3	2.0	16.4	15.2	0.3	2.1	16.5	15.1	0.1	2.4	0.2
47	14.7	14.9	-1.6	2.0	14.5	14.8	-1.8	1.6	14.6	15.0	-1.8	2.0	15.1	15.4	-1.4	2.3	0.6
48	16.4	14.9	1.7	1.7	16.5	15.0	2.0	1.9	16.7	15.1	2.1	2.1	16.7	15.2	1.6	2.1	0.3
49	16.6	15.0	0.2	1.5	16.6	15.2	0.1	1.9	17.0	15.4	0.3	2.0	16.9	15.2	0.2	2.0	0.4
50	16.5	15.0	-0.1	2.3	16.4	15.0	-0.2	2.0	16.6	15.2	-0.4	2.1	17.0	15.3	0.1	2.6	0.6
51	16.5	15.3	0.0	2.2	16.2	15.2	-0.2	1.8	16.5	15.4	-0.1	2.2	16.9	15.4	-0.1	2.4	0.7
52	16.2	14.4	-0.3	1.5	16.0	14.4	-0.2	1.4	16.2	14.5	-0.3	1.6	16.7	14.5	-0.2	2.1	0.7
53	16.6	14.3	0.4	1.9	16.3	14.0	0.3	1.5	16.7	14.3	0.5	1.8	17.2	14.7	0.5	2.3	0.9
54	16.8	14.8	0.2	1.8	16.9	14.9	0.6	2.2	17.0	15.0	0.3	2.0	17.3	14.8	0.1	2.4	0.5
55	16.6	14.9	-0.2	1.6	16.8	15.0	-0.1	1.7	16.9	15.1	-0.1	1.9	17.1	15.1	-0.2	2.2	0.5
56	16.6	14.6	0.0	1.8	16.6	14.7	-0.2	1.9	16.9	14.7	0.0	2.1	17.0	14.8	-0.1	2.3	0.4
57	17.2	14.7	0.6	2.1	17.1	14.5	0.5	2.0	17.6	14.8	0.7	2.2	17.5	14.6	0.5	2.3	0.5
58	15.3	15.0	-1.9	2.1	15.1	14.8	-2.0	1.9	15.6	15.3	-2.0	2.3	15.5	14.8	-2.0	2.2	0.5
59	16.8	15.3	1.5	2.4	16.5	14.9	1.4	2.1	16.8	15.3	1.2	2.4	17.1	14.8	1.6	2.4	0.6
60	16.9	15.5	0.1	3.2	16.9	15.5	0.4	3.3	17.0	15.5	0.2	3.3	17.4	15.5	0.3	3.7	0.5
61	16.9	15.4	0.0	3.0	16.8	15.4	-0.1	2.8	16.9	15.3	-0.1	3.0	17.3	15.4	-0.1	3.8	0.5
62	17.2	15.9	0.3	2.9	17.2	16.0	0.4	2.8	17.5	16.2	0.6	3.3	17.7	16.2	0.4	3.5	0.5
63	17.0	15.2	-0.2	2.6	16.8	14.9	-0.4	2.4	17.4	15.4	-0.1	3.2	17.1	15.0	-0.6	2.9	0.6
64	17.4	15.1	0.4	3.3	17.4	15.1	0.6	3.2	17.7	15.2	0.3	3.5	17.5	15.2	0.4	3.4	0.3
65	18.0	15.8	0.6	3.5	18.0	16.0	0.6	3.5	18.2	15.8	0.5	3.8	17.9	16.2	0.4	3.5	0.3
66	17.7	15.2	-0.3	3.4	17.6	15.1	-0.4	3.4	17.7	15.2	-0.5	3.5	17.2	15.1	-0.7	3.0	0.5
67	17.2	15.3	-0.5	2.8	17.1	15.3	-0.5	2.9	17.4	15.5	-0.3	3.0	16.8	15.2	-0.4	2.4	0.6
68	17.1	15.3	-0.1	2.4	17.2	15.4	0.1	2.4	17.3	15.3	-0.1	2.6	17.0	15.4	0.2	2.2	0.3
69	17.0	14.0	-0.1	2.6	16.9	14.0	-0.3	2.4	17.1	14.3	-0.2	2.7	17.0	14.7	0.0	2.8	0.2
70	16.5	15.8	-0.5	2.1	16.5	15.9	-0.4	1.9	16.4	16.1	-0.7	1.6	16.1	14.6	-0.9	1.5	0.4
71	15.0	15.2	-1.5	1.8	14.9	17.0	-1.6	1.9	14.6	15.6	-1.8	1.4	16.1	15.1	0.0	2.9	1.5
72	14.0	15.9	-1.0	0.0	14.1	15.3	-0.8	0.0	13.9	16.2	-0.7	0.0	13.7	15.1	-2.4	0.0	0.4

**Test Point #7**



528 Bellvue Pl.

24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571

Date: 02/18/06

Run	1				2				3				4				
	Time: 00:50:28				Time: 06:49:12				Time: 12:50:43				Time: 18:53:33				
Temp	35				33				37				30				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
73	14.5	15.4	0.5	1.7	12.4	15.5	-1.7	-0.3	14.2	15.2	0.3	1.4	16.3	14.9	2.6	3.4	3.9
74	13.9	14.9	-0.6	0.1	13.1	15.1	0.7	-0.7	14.9	15.2	0.7	1.3	17.4	16.5	1.1	3.3	4.3
75	14.1	16.2	0.2	3.1	14.2	15.5	1.1	2.5	15.3	15.8	0.4	3.5	15.7	15.4	-1.7	3.5	1.6
76	13.7	15.4	-0.4	4.7	14.1	15.5	-0.1	5.3	15.5	15.7	0.2	6.6	15.8	14.9	0.1	6.0	2.1
77	14.1	15.3	0.4	6.0	13.9	15.0	-0.2	5.6	14.0	15.2	-1.5	6.2	15.0	16.9	-0.8	6.0	1.1
78	14.6	15.9	0.5	4.6	14.2	15.7	0.3	3.7	15.5	15.4	1.5	4.9	16.1	15.0	1.1	4.3	1.9
Min Value	13.6	13.5	-1.9	-0.5	11.2	13.8	-2.0	-2.7	13.6	13.6	-2.0	-0.5	13.7	13.8	-2.4	-0.2	0.2
Max Value	18.0	16.2	1.9	6.0	18.0	17.0	2.8	5.6	18.2	16.2	2.1	6.6	17.9	16.9	2.6	6.0	4.3

Notes:

\*1 - Station off air - standby by carrier in use

\*2 - New channel addition there is no 6 month reference





## Distortion Measurements

Comcast of Alexandria, VA performed distortion tests at 11 test points, as required by the FCC (76.601 (c)(1)), which states that at least 6 test points for the first 12,500 subscribers, adding 1 test point for each additional 12,500 subscribers. Comcast of Alexandria's subscriber count is 49,199 as of 01/01/06. All of Comcast's test points are distributed through the outer edges of the county at its farthest node locations, with the test points being at the end-of-line. Which meets the requirement that all geographic areas be represented and at least 1/3 of the test points being the most distant points in the system. At each test point, 9 channels were tested for distortions as required by the FCC (76.601(c)(2)), which states at least 4 channels must be tested at each test point, adding 1 channel for each 100 MHz block above 100 MHz. Comcast of Arlington's analog bandwidth is 550 MHz.

### **Current FCC distortion specifications are as follows:**

The C/N measurement (76.605 (a)(7)(ii)) shall not be less than 43dB.

The CTB, CSO and X-mod measurements (76.605 (a)(8)(I)) shall not be less than 51dB.

The HUM measurement (76.605(a)(10)) shall not exceed 3.0%.

The Aural Carrier Difference (4.5 Difference)(76.605 (a)(2)) must be 4.5 MHz above the Visual Carrier, +/- 5KHz.

The In-Channel Frequency Response (In-Band Frequency Response) (76.605 (a)(6)) should not vary by more than +/- 2dB.

**Test Point #8**

**Comcast**  
 5109 Gardner Dr.  
 Alexandria, VA  
 FCC Distortion Measurements  
 EQUIPMENT USED:  
 H/P 8591C, S/N 3916A04384  
 Pre-Amplifier 85905A, S/N 6093-0551  
 Cybertec Examiner 101129-001  
 CONVERTER BOX SA 8511, S/N GF505BFDN

Date: 02/16/06

Time: 1:00 pm

Temp: 80

CH.	FREQ. RSP 2dB Max	HUM% 3% Max	CSO 51dB Min	CTB 51dB Min	C/N 43dB Min	4.5 DIFF 5KHz Max
2	0.9	1.7	68.7	65.8	46.6	4.5001
95	0.2	0.8	73.2	65	45.4	4.5002
21	0.8	1.3	69	66.4	48.4	4.5001
8	1.1	1.1	69.4	67.9	48.4	4.5001
28	1.2	1.2	76.9	69.1	49.3	4.5000
32	0.8	1.2	68.1	65	49.6	4.5002
47	0.9	0.9	66.6	70.9	48.7	4.5001
58	0.7	1	63.5	65.8	48.6	4.4998
72	0.5	1.2	64	63	45	4.4999
Minimum values:	0.2	0.8	63.5	63.0	45.0	4.4998
Maximum values:	1.2	1.7	76.9	70.9	49.6	4.5002

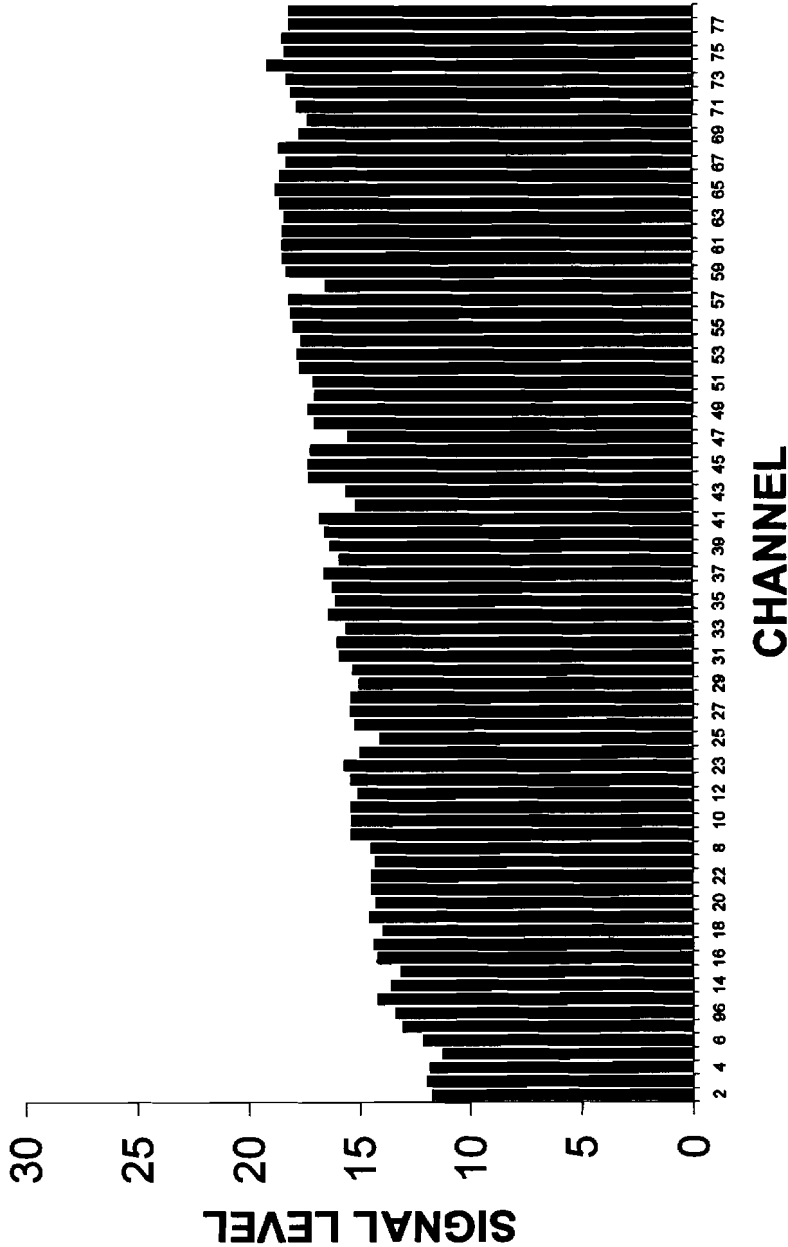


### Signal Level Variance

The ranges allowed by the FCC (76.605 (a)(4)(i,ii,iii)) are as follows:

4. Each level shall not vary by more than 8dB within any 6-month interval.
  - i. Adjacent channel level to be within 3dB of each other.
  - ii. Visual signal level on any other channel on a cable television system should be less than 10dB for systems of up to 300 MHz; for each additional 100 MHz, add 1dB to maximum difference level.
  - iii. A maximum level such that signal degradation due to overload in the subscriber's Receiver or terminal does not occur.

**TEST POINT #8**



The maximum signal level is 19.4 dBmV

The maximum adjacent channel level difference is 2.1 dBmV  
The maximum level difference between the highest and lowest is 8.2 dBmV  
The maximum six month variance is 7.7 dBmV

**Test Point #8**



5109 Gardner Dr.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571

Date: 02/18/06

Run	1				2				3				4				
	Time: 01:11:16				Time: 07:14:06				Time: 13:16:12				Time: 19:17:23				
Temp	35				33				37				30				
Chan	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	24 HR Vid Diff
2	11.8	13.8		2.7	11.6	13.8		2.5	11.8	13.8		3.0	11.7	13.7		2.8	0.2
3	12.0	15.3	0.2	3.4	11.9	15.2	0.3	3.5	12.1	15.2	0.3	3.6	12.1	15.3	0.4	3.7	0.2
4	11.9	14.9	-0.1	4.3	12.5	15.4	0.6	4.8	12.6	15.3	0.5	5.1	12.2	14.9	0.1	5.0	0.7
5	11.3	14.6	-0.6	2.8	12.0	15.2	-0.5	3.7	11.2	14.3	-1.4	3.0	12.0	15.1	-0.2	3.9	0.8
6	12.2	14.7	0.9	3.3	12.2	14.6	0.2	3.4	12.5	14.7	1.3	3.9	12.7	15.0	0.7	4.0	0.5
95	13.1	14.8	0.9	2.7	13.1	14.8	0.9	2.7	13.8	15.4	1.3	3.5	13.2	14.6	0.5	3.0	0.7
96	13.4	15.0	0.3	2.5	13.3	14.9	0.2	2.4	13.6	15.1	-0.2	3.0	13.5	14.9	0.3	2.7	0.3
99	14.2	15.3	0.8	3.8	14.1	15.2	0.8	3.9	14.3	15.3	0.7	4.2	14.3	15.3	0.8	4.2	0.2
14	13.6	14.7	-0.6	3.7	13.5	14.6	-0.6	3.7	13.8	14.8	-0.5	4.1	13.5	14.5	-0.8	3.9	0.3
15	13.2	14.7	-0.4	4.3	13.0	14.7	-0.5	4.1	13.4	14.9	-0.4	4.6	13.2	14.7	-0.3	4.4	0.4
16	14.2	15.5	1.0	4.8	14.5	16.2	1.5	5.4	14.6	15.9	1.2	7.5	14.6	16.0	1.4	5.2	0.4
17	14.4	14.6	0.2	4.2	14.3	14.6	-0.2	4.1	14.6	14.6	0.0	4.6	14.4	14.4	-0.2	4.3	0.3
18	14.0	15.1	-0.4	4.5	13.9	15.1	-0.4	4.2	14.3	15.3	-0.3	4.9	14.3	15.3	-0.1	5.0	0.4
19	14.6	15.3	0.6	4.4	14.6	15.3	0.7	6.6	14.8	15.3	0.5	4.8	14.7	15.1	0.4	4.7	0.2
20	14.3	14.8	-0.3	4.4	14.4	14.7	-0.2	4.4	14.6	14.8	-0.2	4.9	14.6	14.8	-0.1	5.0	0.3
21	14.5	14.7	0.2	4.2	14.5	14.7	0.1	4.1	14.7	14.9	0.1	4.5	14.9	14.9	0.3	4.9	0.4
22	14.5	14.9	0.0	3.8	14.7	15.0	0.2	4.0	14.9	15.0	0.2	4.4	14.8	14.9	-0.1	4.3	0.4
7	14.3	14.1	-0.2	4.1	14.6	14.3	-0.1	4.3	14.9	14.6	0.0	5.0	15.1	14.8	0.3	5.2	0.8
8	14.5	15.0	0.2	4.3	14.3	14.7	-0.3	4.2	14.7	15.0	-0.2	4.9	14.7	14.9	-0.4	4.7	0.4
9	15.4	15.1	0.9	4.8	15.3	15.0	1.0	4.8	16.6	16.0	1.9	6.5	15.6	15.1	0.9	5.5	1.3
10	15.4	15.0	0.0	4.5	14.9	14.5	-0.4	4.1	15.3	14.9	-1.3	4.5	15.4	14.4	-0.2	4.8	0.5
11	15.4	15.3	0.0	3.8	15.2	14.9	0.3	3.7	15.5	15.2	0.2	4.2	15.6	15.2	0.2	4.4	0.4
12	15.1	14.8	-0.3	3.6	15.1	14.6	-0.1	3.4	15.5	14.9	0.0	4.2	15.4	14.6	-0.2	4.3	0.4
13	15.4	15.2	0.3	3.5	15.3	15.0	0.2	3.4	15.7	15.3	0.2	4.2	15.7	15.3	0.3	4.1	0.4
23	15.7	15.4	0.3	4.9	15.7	15.4	0.4	5.0	16.1	15.6	0.4	5.5	15.9	15.5	0.2	5.5	0.4
24	15.0	14.8	-0.7	4.3	15.3	15.3	-0.4	4.2	15.3	14.9	-0.8	4.9	15.2	14.8	-0.7	4.9	0.3
25	14.1	14.8	-0.9	4.2	14.1	14.8	-1.2	5.1	14.2	14.7	-1.1	4.8	14.4	14.9	-0.8	4.8	0.3
26	15.2	15.5	1.1	4.2	15.1	15.4	1.0	4.2	15.5	15.3	1.3	4.8	15.4	15.4	1.0	4.6	0.4
27	15.4	15.3	0.2	4.3	15.6	15.4	0.5	4.4	15.6	15.2	0.1	4.9	15.6	15.1	0.2	4.8	0.2
28	15.4	15.6	0.0	3.7	15.0	15.1	-0.6	3.3	15.3	15.2	-0.3	3.9	15.4	15.4	-0.2	4.1	0.4
29	15.0	15.0	-0.4	4.1	15.1	14.9	0.1	4.3	15.3	15.0	0.0	4.6	15.0	14.7	-0.4	4.6	0.3
30	15.3	14.8	0.3	4.5	15.1	14.5	0.0	4.1	15.5	14.7	0.2	5.0	15.4	14.6	0.4	4.8	0.4
31	15.9	14.8	0.6	4.6	15.8	14.9	0.7	4.6	16.0	14.9	0.5	5.0	16.1	15.0	0.7	5.1	0.3
32	16.0	14.8	0.1	4.5	16.0	14.8	0.2	4.4	16.2	14.8	0.2	4.8	16.2	14.7	0.1	4.7	0.2

**Test Point #8**



5109 Gardner Dr.  
24 Hour Level Variation  
Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571

Date: 02/18/06

Run	1				2				3				4				
Temp	35				33				37				30				
Chan	Vid	Aud	Adjctnl	6 Mth	Vid	Aud	Adjctnl	6 Mth	Vid	Aud	Adjctnl	6 Mth	Vid	Aud	Adjctnl	6 Mth	24 HR
33	15.6	14.7	-0.4	4.4	15.8	14.9	-0.2	4.8	15.7	14.7	-0.5	4.9	15.9	14.7	-0.3	5.0	0.3
34	16.4	15.2	0.8	5.0	16.4	15.2	0.6	5.0	16.8	15.4	1.1	5.8	16.7	15.2	0.8	5.9	0.4
35	16.1	14.6	-0.3	4.5	16.0	14.5	-0.4	4.5	16.4	14.6	-0.4	5.1	16.4	14.5	-0.3	5.1	0.4
36	16.2	15.0	0.1	4.5	16.1	14.9	0.1	4.7	16.5	15.0	0.1	5.6	16.3	14.7	-0.1	5.2	0.4
37	16.6	15.8	0.4	4.3	17.0	16.2	0.9	4.8	16.8	15.8	0.3	5.0	16.8	15.7	0.5	4.9	0.4
38	15.9	14.8	-0.7	3.8	16.1	14.9	-0.9	4.0	16.1	14.7	-0.7	4.6	16.3	14.9	-0.5	4.9	0.4
39	16.3	14.5	0.4	4.7	16.1	14.3	0.0	4.4	16.4	14.3	0.3	5.1	16.3	14.2	0.0	5.1	0.3
40	16.6	14.8	0.3	4.7	16.6	15.0	0.5	4.8	16.8	14.9	0.4	5.5	17.0	15.0	0.7	5.4	0.4
41	16.8	14.6	0.2	4.4	17.0	15.0	0.4	4.8	17.1	14.9	0.3	5.1	17.3	14.9	0.3	5.3	0.5
42	15.2	14.8	-1.6	4.4	15.1	14.8	-1.9	4.4	15.4	14.7	-1.7	5.0	15.4	14.7	-1.9	5.0	0.3
43	15.6	15.6	0.4	4.7	15.4	15.4	0.3	4.4	15.7	15.5	0.3	4.9	15.7	15.2	0.3	5.2	0.3
44	17.3	14.8	1.7	5.7	17.1	14.6	1.7	5.4	17.2	14.7	1.5	5.7	17.5	14.7	1.8	6.1	0.4
45	17.3	15.2	0.0	5.5	17.1	15.0	0.0	5.2	17.5	15.3	0.3	5.9	17.5	15.0	0.0	6.1	0.4
46	17.2	15.1	-0.1	4.5	17.4	15.3	0.3	5.0	17.4	15.3	-0.1	5.2	17.5	15.5	0.0	5.2	0.3
47	15.5	15.2	-1.7	3.9	15.6	15.4	-1.8	4.1	15.6	15.2	-1.8	4.4	15.6	14.9	-1.9	4.4	0.1
48	17.0	15.0	1.5	4.4	16.9	15.0	1.3	4.5	17.0	14.8	1.4	5.1	17.1	14.8	1.5	4.8	0.2
49	17.3	15.1	0.3	4.2	17.2	14.9	0.3	4.4	17.3	15.0	0.3	4.7	17.4	14.7	0.3	4.7	0.2
50	17.0	14.5	-0.3	4.4	17.2	14.7	0.0	4.6	17.3	14.8	0.0	5.1	17.6	14.8	0.2	5.2	0.6
51	17.1	14.3	0.1	4.1	17.3	14.8	0.1	4.5	17.4	14.7	0.1	4.7	17.6	14.6	0.0	5.0	0.5
52	17.7	14.7	0.6	4.5	17.6	14.7	0.3	4.4	17.8	14.7	0.4	5.1	18.0	14.8	0.4	5.2	0.4
53	17.8	14.7	0.1	4.5	17.7	14.6	0.1	4.6	17.8	14.5	0.0	4.9	18.0	14.7	0.0	5.1	0.3
54	17.6	14.0	-0.2	4.8	17.5	13.9	-0.2	4.8	17.8	14.0	0.0	5.3	17.9	14.0	-0.1	5.7	0.4
55	18.0	14.8	0.4	4.8	17.8	14.6	0.3	4.5	18.0	14.7	0.2	5.2	18.1	14.7	0.2	5.3	0.3
56	18.1	14.6	0.1	5.0	18.2	14.9	0.4	5.4	18.2	14.6	0.2	5.8	18.5	14.7	0.4	5.7	0.4
57	18.2	14.4	0.1	4.9	18.0	14.3	-0.2	4.5	18.4	14.4	0.2	5.5	18.4	14.4	-0.1	5.9	0.4
58	16.5	14.5	-1.7	5.2	16.5	14.5	-1.5	5.2	16.6	14.5	-1.8	5.9	16.6	14.4	-1.8	5.8	0.1
59	18.3	15.0	1.8	5.0	18.6	15.2	2.1	5.2	18.4	15.0	1.8	5.6	18.7	15.1	2.1	6.0	0.4
60	18.5	15.1	0.2	6.2	18.3	15.0	-0.3	6.0	18.8	15.3	0.4	7.0	18.7	15.2	0.0	6.8	0.5
61	18.5	15.5	0.0	6.0	18.5	15.3	0.2	5.8	18.7	15.4	-0.1	6.3	18.7	15.3	0.0	6.7	0.2
62	18.5	15.7	0.0	6.0	18.4	15.6	-0.1	5.9	18.7	15.7	0.0	6.4	18.8	15.7	0.1	6.7	0.4
63	18.4	14.7	-0.1	5.7	18.0	14.4	-0.4	5.4	18.5	14.6	-0.2	6.2	18.6	14.6	-0.2	6.2	0.6
64	18.6	14.9	0.2	6.1	18.6	14.8	0.6	6.3	18.9	15.1	0.4	6.9	18.8	14.8	0.2	6.9	0.3
65	18.8	15.3	0.2	5.8	19.2	15.7	0.6	6.1	19.1	15.6	0.2	6.5	19.2	15.5	0.4	6.5	0.4
66	18.6	14.8	-0.2	5.7	18.6	14.7	-0.6	5.8	18.8	14.9	-0.3	6.2	18.8	14.9	-0.4	6.3	0.2
67	18.3	15.1	-0.3	4.8	18.4	15.1	-0.2	5.1	18.6	15.2	-0.2	5.6	18.5	15.0	-0.3	5.4	0.3
68	18.6	15.7	0.3	4.5	18.6	15.7	0.2	4.5	18.9	15.9	0.3	5.3	18.9	15.7	0.4	5.3	0.3
69	17.7	14.0	-0.9	4.3	17.8	14.1	-0.8	4.6	18.1	14.4	-0.8	5.2	18.1	14.4	-0.8	5.2	0.4
70	17.3	14.4	-0.4	4.0	17.3	14.3	-0.5	4.3	17.6	14.5	-0.5	4.7	17.4	14.4	-0.7	4.6	0.3
71	17.8	15.1	0.5	5.5	17.7	15.1	0.4	5.4	18.0	15.3	0.4	5.9	17.9	15.1	0.5	6.0	0.3
72	18.1	15.4	0.3	5.6	17.1	16.0	-0.6	4.6	17.8	15.7	-0.2	5.3	17.1	15.8	-0.8	5.6	1.0

## Test Point #8



5109 Gardner Dr.  
24 Hour Level Variation  
Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571 Date: 02/18/06

Run	1		2		3		4										
Time:	01:11:16	07:14:06	13:16:12	19:17:23													
Temp	35	33	37	30													
Chan	Vid	Aud	Adjicntl	6 Mth	Vid	Aud	Adjicntl	6 Mth	Vid	Aud	Adjicntl	6 Mth	24 HR				
73	18.3	14.4	0.2	5.5	18.1	14.3	1.0	5.4	18.5	14.6	0.7	6.5	17.2	15.2	0.1	5.1	1.3
74	19.2	15.3	0.9	5.6	19.2	15.3	1.1	5.6	19.4	15.3	0.9	6.5	16.7	15.6	-0.5	3.7	2.7
75	18.4	15.0	-0.8	4.6	18.4	14.9	-0.8	4.6	18.5	15.0	-0.9	5.2	16.9	14.8	0.2	3.5	1.6
76	18.5	14.7	0.1	6.1	18.6	15.0	0.2	6.1	18.6	14.8	0.1	6.5	17.1	15.1	0.2	5.2	1.5
77	18.2	16.4	-0.3	6.9	18.5	16.2	-0.1	7.4	18.4	15.7	-0.2	7.7	16.5	15.2	-0.6	5.7	2.0
78	18.2	15.1	0.5	7.3	18.2	15.1	0.4	7.4	18.5	15.6	0.4	7.4	16.7	15.2	-1.4	4.9	1.8
Min Value	11.3	13.8	-1.7	2.5	11.6	13.8	-1.9	2.4	11.2	13.8	-1.8	3.0	11.7	13.7	-1.9	2.7	0.1
Max Value	19.2	16.4	1.8	7.3	19.2	16.2	2.1	7.4	19.4	16.0	1.9	7.7	19.2	16.0	2.1	6.9	2.7

Notes:

\*1 - Station off air - standby by carrier in use

\*2 - New channel addition there is no 6 month reference



## **Distortion Measurements**

Comcast of Alexandria, VA performed distortion tests at 11 test points, as required by the FCC (76.601 (c)(1)), which states that at least 6 test points for the first 12,500 subscribers, adding 1 test point for each additional 12,500 subscribers. Comcast of Alexandria's subscriber count is 49,199 as of 01/01/06. All of Comcast's test points are distributed through the outer edges of the county at its farthest node locations, with the test points being at the end-of-line. Which meets the requirement that all geographic areas be represented and at least 1/3 of the test points being the most distant points in the system. At each test point, 9 channels were tested for distortions as required by the FCC (76.601(c)(2)), which states at least 4 channels must be tested at each test point, adding 1 channel for each 100 MHz block above 100 MHz. Comcast of Arlington's analog bandwidth is 550 MHz.

### **Current FCC distortion specifications are as follows:**

The C/N measurement (76.605 (a)(7)(ii)) shall not be less than 43dB.

The CTB, CSO and X-mod measurements (76.605 (a)(8)(I)) shall not be less than 51dB.

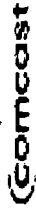
The HUM measurement (76.605(a)(10)) shall not exceed 3.0%.

The Aural Carrier Difference (4.5 Difference)(76.605 (a)(2)) must be 4.5 MHz above the Visual Carrier, +/- 5KHz.

The In-Channel Frequency Response (In-Band Frequency Response) (76.605 (a)(6)) should not vary by more than +/- 2dB.



**Test Point #9**



418 Bashford Ln.  
Alexandria, VA

FCC Distortion Measurements  
EQUIPMENT USED:

H/P 8591C, S/N 3916A04384

Pre-Amplifier 85905A, S/N 6093-0551

Cybertec Examiner 101129-001

CONVERTER BOX SA 8511, S/N GF505BFDN

Date: 02/16/06 Time: 10:00 am Temp: 42

CH.	FREQ. RSP 2dB Max	HUM% 3% Max	CSO 51dB Min	CTB 51dB Min	C/N 43dB Min	4.5 DIFF 5KHz Max
2	0.7	2.0	71.8	62.1	47.6	4.5001
95	1.4	1.6	64.7	67.6	43.7	4.5000
21	0.6	1.2	67.5	64.8	48.6	4.5001
8	1.5	1.2	69.1	63.2	48.4	4.5000
28	1.6	1	70.7	71.9	49.7	4.5000
32	0.5	1.7	68.9	65.2	48.9	4.5000
47	0.6	1.1	69.2	71.5	48.4	4.5000
58	1.1	0.9	67.2	66.1	48.5	4.5001
72	0.8	1.5	63.9	61.4	46.3	4.4971
Minimum values:						
	0.5	0.9	63.9	61.4	43.7	4.4971
Maximum values:						
	1.6	2.0	71.8	71.9	49.7	4.5001



### Signal Level Variance

The ranges allowed by the FCC (76.605 (a)(4)(i,ii,iii)) are as follows:

4. Each level shall not vary by more than 8dB within any 6-month interval.
  - i. Adjacent channel level to be within 3dB of each other.
  - ii. Visual signal level on any other channel on a cable television system should be less than 10dB for systems of up to 300 MHz; for each additional 100 MHz, add 1dB to maximum difference level.
  - iii. A maximum level such that signal degradation due to overload in the subscriber's Receiver or terminal does not occur.

TEST POINT #9



CHANNEL

The maximum signal level is 24.2 dBmV

The maximum adjacent channel level difference is 3.8 dBmV  
The maximum level difference between the highest and lowest is 7.9 dBmV  
The maximum six month variance is 7.7 dBmV

**Test Point #9**



418 Bashford Ln.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571 Date: 02/18/06

Run	1				2				3				4				
	Time: 00:46:39				Time: 06:48:09				Time: 12:46:50				Time: 18:48:47				
Temp	35				33				37				30				
Chan	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	24 HR Vid Diff
2	16.2	13.8		-0.6	16.0	13.8		0.0	16.6	14.0		-0.3	16.6	13.5		-0.1	0.6
3	16.8	15.4	0.6	0.2	17.2	15.2	1.2	0.7	17.3	15.2	0.7	0.5	17.2	14.7	0.6	0.9	0.5
4	17.3	14.8	0.5	1.6	18.1	15.8	0.9	2.2	17.3	14.7	0.0	1.4	17.2	14.3	0.0	1.5	0.9
5	16.2	14.4	-1.1	0.3	15.8	14.3	-2.3	-0.1	16.3	14.5	-1.0	0.4	16.3	14.5	-0.9	0.4	0.5
6	17.2	15.1	1.0	0.9	16.9	15.1	1.1	0.6	17.2	15.1	0.9	0.9	17.6	15.4	1.3	1.1	0.7
95	17.1	15.3	-0.1	0.4	16.5	14.9	-0.4	-1.0	17.1	15.1	-0.1	0.1	17.5	15.3	-0.1	0.4	1.0
96	17.1	15.1	0.0	-0.3	16.7	15.0	0.2	-0.8	17.2	15.0	0.1	-0.5	17.5	15.2	0.0	0.0	0.8
99	17.5	15.1	0.4	0.9	17.3	15.3	0.6	0.7	17.7	15.1	0.5	0.9	18.1	15.5	0.6	1.4	0.8
14	17.2	14.7	-0.3	0.7	16.9	14.7	-0.4	0.3	17.5	15.0	-0.2	0.8	17.6	15.1	-0.5	1.1	0.7
15	16.6	14.9	-0.6	1.3	16.2	14.7	-0.7	0.8	16.9	15.0	-0.6	1.0	17.2	15.3	-0.4	1.7	1.0
16	17.6	15.5	1.0	1.3	17.0	15.6	0.8	0.9	17.8	15.9	0.9	1.2	17.1	15.4	-0.1	0.6	0.8
17	17.5	14.8	-0.1	0.9	17.2	14.8	0.2	0.7	17.5	14.7	-0.3	1.0	17.9	15.0	0.8	1.2	0.7
18	17.0	15.1	-0.5	1.4	16.5	14.9	-0.7	0.7	17.0	15.0	-0.5	1.3	17.4	15.2	-0.5	1.7	0.9
19	17.6	15.0	0.6	1.0	17.4	15.2	0.9	2.9	17.8	15.1	0.8	1.3	18.1	15.3	0.7	1.9	0.7
20	17.4	14.7	-0.2	1.4	17.0	14.7	-0.4	1.0	17.5	14.5	-0.3	1.6	17.7	14.6	-0.4	1.8	0.7
21	18.0	15.1	0.6	1.3	17.5	15.0	0.5	0.5	18.2	15.2	0.7	1.1	18.4	15.2	0.7	1.4	0.9
22	18.0	14.8	0.0	0.9	17.5	14.5	0.0	0.3	18.3	14.9	0.1	1.1	18.4	14.8	0.0	1.3	0.9
7	18.0	14.1	0.0	1.2	17.5	14.0	0.0	0.8	17.9	13.8	-0.4	1.2	18.4	14.1	0.0	1.7	0.9
8	18.2	15.6	0.2	1.6	17.8	15.5	0.3	1.1	18.3	15.5	0.4	1.7	18.4	15.4	0.0	1.8	0.6
9	19.2	15.4	1.0	2.4	18.5	15.3	0.7	1.6	19.1	15.1	0.8	2.1	19.3	14.9	0.9	2.4	0.8
10	18.4	15.0	-0.8	0.7	18.3	15.3	-0.2	0.8	18.9	15.2	-0.2	1.2	19.0	14.9	-0.3	1.2	0.7
11	18.8	15.0	0.4	0.3	18.5	15.0	0.2	0.0	19.1	15.1	0.2	0.7	19.2	15.2	0.2	0.7	0.7
12	19.4	15.2	0.6	0.8	19.0	15.2	0.5	0.7	19.6	15.2	0.5	0.8	19.1	14.5	-0.1	0.3	0.6
13	19.2	15.1	-0.2	0.7	18.7	15.2	-0.3	0.2	19.6	15.2	0.0	1.2	19.2	14.6	0.1	0.7	0.9
23	19.7	15.7	0.5	2.1	19.1	15.7	0.4	1.4	20.1	15.9	0.5	2.5	20.1	15.7	0.9	2.7	1.0
24	19.2	15.2	-0.5	1.9	18.6	14.9	-0.5	0.8	19.6	15.2	-0.5	2.2	19.7	15.2	-0.4	2.4	1.1
25	18.1	14.9	-1.1	1.9	17.8	15.5	-0.8	1.5	18.5	15.1	-1.1	2.1	18.6	15.0	-1.1	2.4	0.8
26	19.4	15.6	1.3	1.8	18.8	15.5	1.0	1.2	19.6	15.7	1.1	1.9	19.6	15.4	1.0	2.0	0.8
27	19.2	14.8	-0.2	1.7	18.6	14.5	-0.2	1.1	19.5	14.8	-0.1	1.9	19.6	14.8	0.0	2.3	1.0
28	19.5	15.2	0.3	1.1	19.2	15.2	0.6	0.8	19.9	15.3	0.4	1.5	20.0	15.3	0.4	1.7	0.8
29	19.3	14.9	-0.2	2.0	18.8	14.7	-0.4	1.2	19.5	14.8	-0.4	2.0	19.7	15.0	-0.3	2.2	0.9
30	19.5	14.9	0.2	1.8	19.0	14.7	0.2	1.2	19.7	14.7	0.2	1.9	19.9	14.9	0.2	2.2	0.9
31	19.6	14.9	0.1	1.6	19.2	14.8	0.2	1.3	19.9	14.8	0.2	1.9	19.9	14.8	0.0	2.0	0.7
32	19.4	14.8	-0.2	1.3	19.2	14.9	0.0	1.2	19.9	14.9	0.0	1.7	19.9	14.9	0.0	1.6	0.7

**Test Point #9**



418 Bashford Ln.  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571

Date: 02/18/06

Run	1					2					3					4				
	Vid	Aud	Adjct	6 Mth	Temp	Vid	Aud	Adjct	6 Mth	Temp	Vid	Aud	Adjct	6 Mth	Temp	Vid	Aud	Adjct	6 Mth	Temp
33	19.2	15.0	-0.2	1.7	18.7	15.0	-0.5	1.3	19.4	14.9	-0.5	1.9	19.6	15.0	-0.3	2.4	0.9			
34	19.9	15.3	0.7	2.1	19.5	15.3	0.8	1.7	20.1	15.2	0.7	2.3	20.4	15.3	0.8	2.6	0.9			
35	19.5	14.6	-0.4	1.3	18.8	14.4	-0.7	0.8	19.8	14.6	-0.3	1.5	20.0	14.8	-0.4	2.1	1.2			
36	19.6	14.6	0.1	1.4	18.9	14.3	0.1	0.8	19.7	14.4	-0.1	1.3	19.7	14.3	-0.3	1.6	0.8			
37	20.0	15.1	0.4	1.1	19.3	15.1	0.4	0.3	20.3	15.1	0.6	1.2	20.4	15.2	0.7	1.7	1.1			
38	19.8	14.4	-0.2	1.3	19.4	14.5	0.1	0.2	20.3	14.5	0.0	1.8	20.3	14.6	-0.1	1.9	0.9			
39	20.4	14.4	0.6	1.5	19.6	14.1	0.2	0.7	20.6	14.2	0.3	1.8	21.0	14.7	0.7	2.1	1.4			
40	20.2	15.1	-0.2	1.0	19.4	14.9	-0.2	0.3	20.5	15.2	-0.1	1.5	20.6	15.3	-0.4	1.3	1.2			
41	19.9	14.5	-0.3	0.8	19.3	14.4	-0.1	0.1	20.3	14.6	-0.2	1.3	20.3	14.5	-0.3	0.8	1.0			
42	18.6	15.0	-1.3	1.2	18.0	14.9	-1.3	0.7	18.8	14.9	-1.5	1.2	19.1	15.1	-1.2	2.1	1.1			
43	19.0	15.3	0.4	1.7	18.3	15.1	0.3	0.9	19.0	15.2	0.2	1.9	19.2	15.3	0.1	1.9	0.9			
44	21.0	14.6	2.0	2.7	20.5	14.6	2.2	2.2	21.3	14.8	2.3	3.0	21.2	14.6	2.0	3.0	0.8			
45	21.2	14.9	0.2	2.8	20.7	14.7	0.2	2.2	21.4	14.8	0.1	2.6	21.5	14.8	0.3	2.7	0.8			
46	21.4	15.2	0.2	1.7	21.3	15.4	0.6	1.5	21.8	15.5	0.4	1.9	22.0	15.3	0.5	2.2	0.7			
47	20.1	15.0	-1.3	1.8	19.8	15.2	-1.5	1.3	20.0	15.0	-1.8	1.4	20.4	15.2	-1.6	2.0	0.6			
48	21.7	15.1	1.6	1.7	21.5	15.3	1.7	1.6	22.0	15.0	2.0	2.4	22.3	15.5	1.9	2.5	0.8			
49	21.6	14.8	-0.1	1.3	21.4	15.1	-0.1	1.3	21.9	15.2	-0.1	1.6	21.7	14.9	-0.6	1.2	0.5			
50	21.5	14.8	-0.1	1.6	21.1	14.8	-0.3	1.2	21.8	15.0	-0.1	2.0	21.8	14.8	0.1	1.9	0.7			
51	21.7	15.1	0.2	1.7	21.4	15.2	0.3	1.2	21.9	15.3	0.1	1.8	22.1	15.2	0.3	2.1	0.7			
52	21.5	14.3	-0.2	1.5	21.2	14.3	-0.2	1.2	21.8	14.3	-0.1	1.4	21.9	14.2	-0.2	1.7	0.7			
53	21.6	13.9	0.1	1.4	21.1	13.8	-0.1	0.7	22.0	14.1	0.2	1.6	22.4	14.4	0.5	2.2	1.3			
54	22.2	14.5	0.6	1.8	22.1	14.8	1.0	1.7	22.4	14.6	0.4	2.0	22.8	14.7	0.4	2.4	0.7			
55	22.3	14.4	0.1	1.3	22.1	14.6	0.0	1.0	22.6	14.7	0.2	1.5	22.9	14.8	0.1	2.0	0.8			
56	22.4	14.5	0.1	1.6	22.1	14.5	0.0	1.3	22.3	14.2	-0.3	1.4	22.8	14.7	-0.1	2.1	0.7			
57	22.7	14.2	0.3	1.6	22.4	14.2	0.3	1.1	23.2	14.4	0.9	1.8	23.3	14.4	0.5	2.2	0.9			
58	21.1	15.2	-1.6	1.8	20.7	15.2	-1.7	1.4	21.2	15.2	-2.0	1.8	21.2	14.8	-2.1	1.9	0.5			
59	22.4	15.1	1.3	1.7	21.8	15.1	1.1	1.2	22.6	15.1	1.4	2.0	22.8	14.6	1.6	2.3	1.0			
60	22.6	15.0	0.2	2.5	22.2	15.3	0.4	2.4	23.0	15.3	0.4	3.0	23.5	15.4	0.7	3.8	1.3			
61	22.4	15.0	-0.2	2.4	21.9	14.9	-0.3	2.1	22.4	14.9	-0.6	2.5	22.7	14.9	-0.8	2.9	0.8			
62	22.7	15.7	0.3	2.3	22.3	15.7	0.4	1.9	23.1	15.8	0.7	2.5	23.2	15.8	0.5	2.9	0.9			
63	22.6	14.9	-0.1	1.9	22.0	15.0	-0.3	1.6	22.9	14.9	-0.2	2.4	22.8	14.7	-0.4	2.3	0.9			
64	22.9	14.0	0.3	2.7	22.0	13.8	0.0	1.3	23.2	14.1	0.3	2.8	23.3	14.4	0.5	3.0	1.3			
65	23.7	14.8	0.8	2.7	23.3	15.2	1.3	2.3	24.2	15.1	1.0	3.3	24.1	15.3	0.8	3.3	0.9			
66	23.8	14.9	0.1	3.0	23.2	15.1	-0.1	2.4	23.9	14.8	-0.3	3.2	23.8	15.0	-0.3	3.4	0.7			
67	23.8	15.5	0.0	2.6	23.1	15.3	-0.1	1.8	24.1	15.6	0.2	2.8	23.7	15.3	-0.1	2.5	1.0			
68	23.8	15.2	0.0	1.9	23.2	15.1	0.1	1.3	24.2	15.6	0.1	2.2	24.1	15.4	0.4	2.4	1.0			
69	23.5	13.6	-0.3	2.2	22.5	13.2	-0.7	1.2	23.6	14.3	-0.6	2.3	23.8	14.7	-0.3	2.7	1.3			
70	23.2	15.6	-0.3	1.6	22.4	15.6	-0.1	0.8	23.1	15.9	-0.5	1.3	22.7	15.0	-1.1	1.0	0.8			
71	22.0	15.2	-1.2	1.6	21.4	15.3	-1.0	1.0	21.8	15.7	-1.3	1.4	22.5	16.4	-0.2	2.1	1.1			
72	21.0	15.3	-1.0	1.2	21.6	15.5	0.2	1.2	20.1	15.3	-1.7	-0.3	18.7	17.1	-3.8	0.0	2.9			

### Test Point #9

**Comcast**

418 Bashford Ln.

24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571

Date: 02/18/06

Run	1				2				3				4				
Time:	00:46:39				06:46:09				12:48:50				18:48:47				
Temp	35				33				37				30				
Chan	Vid	Aud	Adjct	6 Mth	Vid	Aud	Adjct	6 Mth	Vid	Aud	Adjct	6 Mth	Vid	Aud	Adjct	6 Mth	24 HR
73	21.3	15.2	0.3	1.4	21.4	14.7	-0.2	1.5	20.5	12.7	0.4	0.6	20.2	15.1	1.5	0.1	1.2
74	22.6	15.6	1.3	2.1	22.1	15.3	0.7	1.5	23.4	15.8	2.9	2.9	20.3	15.2	0.1	-0.3	3.1
75	21.9	16.0	-0.7	3.9	22.2	14.4	0.1	3.4	22.6	14.7	-0.8	3.8	21.8	15.2	1.5	2.4	0.8
76	23.1	15.0	1.2	7.1	23.6	15.3	1.4	7.7	23.6	15.3	1.0	7.7	23.4	14.8	1.6	6.4	0.5
77	22.3	16.9	-0.8	7.4	22.6	16.1	-1.0	7.6	20.9	15.3	-2.7	6.0	21.2	15.1	-2.2	6.2	1.7
78	23.0	15.7	0.7	6.0	23.4	16.0	0.8	6.0	23.6	15.5	2.7	7.4	23.7	15.6	2.5	6.2	0.7
Min Value	16.2	13.6	-1.6	-0.6	15.8	13.2	-2.3	-1.0	16.3	12.7	-2.7	-0.5	16.3	13.5	-3.8	-0.3	0.5
Max Value	23.8	16.9	2.0	7.4	23.6	16.1	2.2	7.7	24.2	15.9	2.9	7.7	24.1	17.1	2.5	6.4	3.1

Notes:

\*1 - Station off air - standby by carrier in use

\*2 - New channel addition there is no 6 month reference



## Distortion Measurements

Comcast of Alexandria, VA performed distortion tests at 11 test points, as required by the FCC (76.601 (c)(1)), which states that at least 6 test points for the first 12,500 subscribers, adding 1 test point for each additional 12,500 subscribers. Comcast of Alexandria's subscriber count is 49,199 as of 01/01/06. All of Comcast's test points are distributed through the outer edges of the county at its farthest node locations, with the test points being at the end-of-line. Which meets the requirement that all geographic areas be represented and at least 1/3 of the test points being the most distant points in the system. At each test point, 9 channels were tested for distortions as required by the FCC (76.601(c)(2)), which states at least 4 channels must be tested at each test point, adding 1 channel for each 100 MHz block above 100 MHz. Comcast of Arlington's analog bandwidth is 550 MHz.

### **Current FCC distortion specifications are as follows:**

The C/N measurement (76.605 (a)(7)(ii)) shall not be less than 43dB.

The CTB, CSO and X-mod measurements (76.605 (a)(8)(I)) shall not be less than 51dB.

The HUM measurement (76.605(a)(10)) shall not exceed 3.0%.

The Aural Carrier Difference (4.5 Difference)(76.605 (a)(2)) must be 4.5 MHz above the Visual Carrier, +/- 5KHz.

The In-Channel Frequency Response (In-Band Frequency Response) (76.605 (a)(6)) should not vary by more than +/- 2dB.

**Test Point #10**



5465 Colfax Ave.  
 Alexandria, VA  
 FCC Distortion Measurements  
 EQUIPMENT USED:  
 H/P 8591C, S/N 3916A04384  
 Pre-Amplifier 85905A, S/N 6093-0551  
 Cybertec Examiner 101129-001  
 CONVERTER BOX SA 8511, S/N GF505BFDN

Date: 02/15/06 Time: 12:30 pm Temp: 43

CH.	FREQ. RSP 2dB Max	HUM% 3% Max	CSO 51dB Min	CTB 51dB Min	C/N 43dB Min	4.5 DIFF 5KHz Max
2	0.6	1.6	64.0	64.4	45.8	4.5001
95	0.3	1	64.5	61.5	43.7	4.5001
21	0.6	1.3	65.4	67.2	45.9	4.5000
8	1.2	0.9	68.2	63.3	45.1	4.5001
28	1.1	1.1	67.1	66	46.1	4.5000
32	2	1.1	66.7	65.8	46.8	4.5001
47	1.3	0.9	70.1	66.2	47.2	4.5001
58	1.4	1	67.2	61.2	47.3	4.5001
72	0.8	1.2	70.4	62.9	45.3	4.4969
Minimum values:		0.3	64.0	61.2	43.7	4.4969
Maximum values:		2.0	70.4	67.2	47.3	4.5001





### Signal Level Variance

The ranges allowed by the FCC (76.605 (a)(4)(i,ii,iii)) are as follows:

4. Each level shall not vary by more than 8dB within any 6-month interval.
  - i. Adjacent channel level to be within 3dB of each other.
  - ii. Visual signal level on any other channel on a cable television system should be less than 10dB for systems of up to 300 MHz; for each additional 100 MHz, add 1dB to maximum difference level.
  - iii. A maximum level such that signal degradation due to overload in the subscriber's Receiver or terminal does not occur.

**TEST POINT #10**



**CHANNEL**

■ The maximum signal level is 22.9 dBmV

The maximum adjacent channel level difference is 2.8 dBmV  
The maximum level difference between the highest and lowest is 8.8 dBmV  
The maximum six month variance is 7.9 dBmV

### Test Point #10



5465 Cofax Ave  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571

Date: 02/18/06

Run	1				2				3				4				
	Time: 00:01:04				Time: 06:02:16				Time: 12:01:37				Time: 18:02:07				
Temp	35				33				37				30				
Chan	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	24 HR Vid Diff
2	16.3	15.2		-4.0	13.4	14.9		-6.6	19.3	13.8		1.8	19.6	15.1		-0.4	6.2
3	16.8	14.7	0.5	-2.8	13.6	14.7	0.2	-6.1	19.8	15.1	0.5	2.8	20.0	14.9	0.4	0.2	6.4
4	17.9	15.6	1.1	-0.8	15.3	15.1	1.7	-3.2	20.2	14.9	0.4	4.0	20.2	14.6	0.2	1.4	4.9
5	17.3	15.0	-0.6	-1.7	15.7	15.4	0.4	-3.4	19.9	15.8	-0.3	3.4	19.2	14.7	-1.0	0.0	4.2
6	17.5	14.9	0.2	-1.6	15.9	15.8	0.2	-3.3	19.6	15.3	-0.3	2.6	19.9	15.2	0.7	0.7	4.0
95	17.1	15.0	-0.4	-2.7	17.3	14.8	1.4	-2.4	19.1	14.6	-0.5	1.2	20.1	15.2	0.2	0.0	3.0
96	17.5	15.0	0.4	-2.4	17.5	15.0	0.2	-2.4	19.6	14.9	0.5	1.7	20.0	15.0	-0.1	0.1	2.5
99	16.2	15.7	-1.3	-3.1	16.1	16.0	-1.4	-3.1	19.8	15.2	0.2	2.2	20.2	15.2	0.2	1.1	4.1
14	14.9	15.1	-1.3	-4.5	14.8	14.1	-1.3	-4.5	19.5	15.4	-0.3	2.3	20.0	15.5	-0.2	0.7	5.2
15	15.1	14.0	0.2	-2.9	15.4	13.7	0.6	-2.5	18.5	14.7	-1.0	2.4	19.0	14.8	-1.0	1.0	3.9
16	17.6	15.5	2.5	-1.2	18.0	15.3	2.6	-0.5	19.7	15.6	1.2	3.1	20.1	15.2	1.1	2.0	2.5
17	17.8	14.4	0.2	-1.2	18.5	15.3	0.5	-0.6	19.6	15.1	-0.1	2.1	20.2	15.3	0.1	1.0	2.4
18	16.9	14.2	-0.9	-1.1	18.0	16.1	-0.5	0.2	19.1	15.4	-0.5	2.6	19.7	15.7	-0.5	1.7	2.8
19	19.0	15.3	2.1	0.0	18.7	15.0	0.7	1.3	19.8	15.3	0.7	2.8	20.1	15.1	0.4	1.2	1.4
20	19.0	15.3	0.0	0.1	18.8	15.1	0.1	0.0	19.7	15.2	-0.1	2.7	20.1	15.2	0.0	1.2	1.3
21	19.0	14.9	0.0	0.2	19.0	14.8	0.2	0.2	19.7	14.8	0.0	2.7	20.2	14.9	0.1	1.3	1.2
22	18.3	14.5	-0.7	-0.9	19.1	14.8	0.1	-0.1	19.6	14.5	-0.1	1.7	20.0	14.5	-0.2	0.8	1.7
7	19.0	14.7	0.7	0.1	19.2	14.4	0.1	0.3	19.6	13.8	0.0	2.4	20.8	14.7	0.8	1.9	1.8
8	18.5	14.9	-0.5	-0.1	18.9	15.1	-0.3	0.4	19.8	15.0	0.2	2.5	20.3	15.1	-0.5	1.7	1.8
9	20.5	15.9	2.0	1.7	20.7	15.8	1.8	1.9	21.6	15.8	1.8	3.8	21.3	15.1	1.0	2.5	1.1
10	19.1	14.9	-1.4	0.0	19.3	15.1	-1.4	0.0	20.4	14.8	-1.2	1.8	20.9	15.0	-0.4	1.5	1.8
11	19.6	15.2	0.5	-0.4	19.5	14.7	0.2	-0.3	20.6	14.7	0.2	1.6	21.2	14.9	0.3	1.3	1.7
12	19.6	14.2	0.0	-0.8	20.0	14.7	0.5	-0.4	21.1	15.0	0.5	1.6	21.3	14.6	0.1	0.6	1.7
13	20.4	15.1	0.8	-0.4	20.4	15.1	0.4	-0.4	21.3	15.3	0.2	1.8	21.7	15.2	0.4	0.9	1.3
23	20.5	15.5	0.1	1.1	20.4	15.4	0.0	1.2	21.3	15.8	0.0	3.1	21.7	15.7	0.0	2.5	1.3
24	19.6	14.6	-0.9	0.9	19.5	14.6	-0.9	0.4	20.4	15.0	-0.9	2.6	20.8	15.1	-0.9	2.2	1.3
25	19.0	14.6	-0.6	1.2	19.0	14.6	-0.5	1.3	19.5	14.8	-0.9	2.4	19.9	14.6	-0.9	2.2	0.9
26	20.7	15.2	1.7	1.2	20.6	15.3	1.6	1.1	21.0	15.4	1.5	2.6	21.5	15.4	1.6	2.1	0.9
27	21.0	15.3	0.3	1.4	21.0	15.4	0.4	1.3	21.1	15.3	0.1	2.7	21.7	15.5	0.2	1.8	0.7
28	20.9	15.4	-0.1	1.1	21.0	15.6	0.0	1.1	21.2	15.6	0.1	1.9	21.6	15.6	-0.1	1.4	0.7
29	20.2	15.1	-0.7	1.4	20.0	14.9	-1.0	1.2	20.3	15.0	-0.9	1.9	20.7	14.8	-0.9	1.7	0.7
30	20.4	15.0	0.2	1.1	20.4	15.1	0.4	1.0	20.7	15.1	0.4	1.9	21.1	15.1	0.4	1.5	0.7
31	20.6	15.1	0.2	1.5	20.4	15.0	0.0	1.4	20.7	14.7	0.0	2.1	21.1	14.8	0.0	1.9	0.7
32	20.7	15.6	0.1	1.3	20.4	15.3	0.0	1.0	20.9	15.3	0.2	2.0	21.2	15.3	0.1	1.5	0.8

# Test Point #10



5465 Colfax Ave

24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571

Date: 02/18/06

Run	1						2						3						4										
Temp	Time: 00:01:04						Time: 06:02:16						Time: 12:01:37						Time: 18:02:07										
Chan	Vid	Aud	Adjicnt	6 Mth	Vid	Aud	Adjicnt	6 Mth	Vid	Aud	Adjicnt	6 Mth	Vid	Aud	Adjicnt	6 Mth	Vid	Aud	Adjicnt	6 Mth	Vid	Aud	Adjicnt	6 Mth	Vid	Aud	Adjicnt	6 Mth	24 HR
33	19.9	15.7	-0.8	1.3	19.8	15.6	-0.6	1.3	20.1	15.5	-0.8	2.3	20.5	15.3	-0.7	1.8	20.7	15.1	0.2	2.5	20.7	15.5	0.0	2.0	20.3	15.2	-0.4	1.6	1.2
34	19.8	15.5	-0.1	1.6	19.8	15.5	0.0	1.6	20.0	15.1	-0.1	2.1	20.7	15.1	0.2	2.5	20.7	15.1	0.2	2.5	20.7	15.5	0.0	2.0	20.3	15.2	-0.4	1.6	1.2
35	19.4	15.2	-0.4	0.4	19.4	15.2	-0.4	0.6	19.9	15.2	-0.1	1.5	20.7	15.5	0.0	2.0	20.7	15.5	0.0	2.0	20.7	15.5	0.0	2.0	20.3	15.2	-0.4	1.6	1.2
36	19.1	14.5	-0.3	0.2	19.3	14.9	-0.1	0.7	19.8	14.7	-0.1	1.4	20.3	15.2	-0.4	1.6	20.3	15.2	-0.4	1.6	20.3	15.2	-0.4	1.6	20.3	15.2	-0.4	1.6	1.2
37	19.4	14.9	0.3	0.3	19.5	15.0	0.2	0.2	20.1	14.8	0.3	1.1	20.2	14.6	-0.1	0.8	20.2	14.6	-0.1	0.8	20.2	14.6	-0.1	0.8	20.7	14.8	0.5	1.5	1.4
38	19.4	14.6	0.0	0.0	19.3	14.5	-0.2	0.1	20.1	14.8	0.0	0.6	20.7	14.8	0.0	0.6	20.7	14.8	0.0	0.6	20.7	14.8	0.0	0.6	20.7	14.8	0.0	0.6	1.4
39	19.5	14.3	0.1	0.4	19.5	14.3	0.2	0.5	20.1	14.3	0.0	1.4	20.7	14.5	0.0	1.7	20.7	14.5	0.0	1.7	20.7	14.5	0.0	1.7	20.7	14.5	0.0	1.7	1.2
40	19.9	14.9	0.4	1.1	20.0	15.0	0.5	1.2	20.5	15.0	0.4	2.2	20.9	15.1	0.2	1.9	20.9	15.1	0.2	1.9	20.9	15.1	0.2	1.9	20.9	15.1	0.2	1.9	1.0
41	19.9	15.1	0.0	0.6	19.8	15.1	-0.2	0.6	20.4	15.3	-0.1	1.7	20.8	15.4	-0.1	1.5	20.8	15.4	-0.1	1.5	20.8	15.4	-0.1	1.5	20.8	15.4	-0.1	1.5	1.0
42	17.6	14.3	-2.3	0.7	17.8	14.5	-2.0	0.9	18.2	14.5	-2.2	1.6	18.5	14.6	-2.3	1.6	18.5	14.6	-2.3	1.6	18.5	14.6	-2.3	1.6	18.5	14.6	-2.3	1.6	0.9
43	18.5	15.1	0.9	0.9	18.4	14.9	0.6	0.8	18.8	14.9	0.6	2.3	19.0	14.9	0.5	1.4	19.0	14.9	0.5	1.4	19.0	14.9	0.5	1.4	19.0	14.9	0.5	1.4	0.6
44	21.1	15.6	2.6	1.8	20.9	15.3	2.5	1.6	21.6	15.6	2.8	4.0	21.7	15.4	2.7	2.6	21.7	15.4	2.7	2.6	21.7	15.4	2.7	2.6	21.7	15.4	2.7	2.6	0.8
45	20.8	15.6	-0.3	1.8	20.7	15.5	-0.2	1.9	21.2	15.5	-0.4	3.7	21.2	15.2	-0.5	2.4	21.2	15.2	-0.5	2.4	21.2	15.2	-0.5	2.4	21.2	15.2	-0.5	2.4	0.5
46	20.4	15.3	-0.4	1.2	20.4	15.3	-0.3	1.0	20.6	15.1	-0.6	2.6	21.2	15.5	0.0	1.9	21.2	15.5	0.0	1.9	21.2	15.5	0.0	1.9	21.2	15.5	0.0	1.9	0.8
47	18.4	16.0	-2.0	0.1	18.4	15.8	-2.0	0.2	18.4	15.2	-2.2	1.2	18.8	15.0	-2.4	0.4	18.8	15.0	-2.4	0.4	18.8	15.0	-2.4	0.4	18.8	15.0	-2.4	0.4	0.4
48	19.6	14.3	1.2	1.1	19.6	14.4	1.2	1.3	19.9	13.9	1.5	1.9	20.5	14.2	1.7	2.1	20.5	14.2	1.7	2.1	20.5	14.2	1.7	2.1	20.5	14.2	1.7	2.1	0.9
49	20.7	15.1	1.1	0.8	20.6	15.0	1.0	0.6	21.2	14.9	1.3	2.6	21.6	15.1	1.1	1.7	21.6	15.1	1.1	1.7	21.6	15.1	1.1	1.7	21.6	15.1	1.1	1.7	1.0
50	20.9	15.1	0.2	1.2	20.9	15.1	0.3	1.1	21.6	15.0	0.4	3.5	21.9	15.1	0.3	2.0	21.9	15.1	0.3	2.0	21.9	15.1	0.3	2.0	21.9	15.1	0.3	2.0	1.0
51	20.8	14.7	-0.1	0.9	20.7	14.7	-0.2	0.7	21.5	14.7	-0.1	3.5	21.8	14.8	-0.1	1.9	21.8	14.8	-0.1	1.9	21.8	14.8	-0.1	1.9	21.8	14.8	-0.1	1.9	1.1
52	20.9	14.6	0.1	0.1	21.3	15.0	0.6	0.8	21.9	14.8	0.4	3.6	22.2	14.8	0.4	1.6	22.2	14.8	0.4	1.6	22.2	14.8	0.4	1.6	22.2	14.8	0.4	1.6	1.3
53	21.4	14.7	0.5	0.8	21.3	14.7	0.0	0.7	22.1	15.0	0.2	3.4	22.4	14.8	0.2	1.5	22.4	14.8	0.2	1.5	22.4	14.8	0.2	1.5	22.4	14.8	0.2	1.5	1.1
54	21.3	14.0	-0.1	1.5	21.0	13.9	-0.3	1.0	21.3	13.7	-0.8	2.9	22.0	14.0	-0.4	2.0	22.0	14.0	-0.4	2.0	22.0	14.0	-0.4	2.0	22.0	14.0	-0.4	2.0	1.0
55	21.1	14.5	-0.2	0.5	21.1	14.6	0.1	0.6	21.7	14.8	0.4	3.1	22.0	14.8	0.0	1.8	22.0	14.8	0.0	1.8	22.0	14.8	0.0	1.8	22.0	14.8	0.0	1.8	0.9
56	21.3	14.0	0.2	0.8	21.4	14.0	0.3	1.0	21.7	14.1	0.0	3.6	22.3	14.3	0.3	1.6	22.3	14.3	0.3	1.6	22.3	14.3	0.3	1.6	22.3	14.3	0.3	1.6	1.0
57	22.0	14.6	0.7	1.0	21.9	14.4	0.5	1.0	22.4	14.5	0.7	4.6	22.9	14.7	0.6	1.9	22.9	14.7	0.6	1.9	22.9	14.7	0.6	1.9	22.9	14.7	0.6	1.9	1.0
58	20.0	14.8	-2.0	0.9	19.9	15.1	-2.0	0.6	20.5	15.2	-1.9	4.5	21.0	15.4	-1.9	1.8	21.0	15.4	-1.9	1.8	21.0	15.4	-1.9	1.8	21.0	15.4	-1.9	1.8	1.1
59	21.2	14.8	1.2	1.1	21.1	14.8	1.2	0.8	21.9	15.1	1.4	5.0	21.9	14.7	0.9	1.8	21.9	14.7	0.9	1.8	21.9	14.7	0.9	1.8	21.9	14.7	0.9	1.8	0.8
60	21.3	14.6	0.1	1.9	21.5	14.8	0.4	2.0	21.9	14.8	0.0	5.3	22.3	14.6	0.4	2.8	22.3	14.6	0.4	2.8	22.3	14.6	0.4	2.8	22.3	14.6	0.4	2.8	1.0
61	22.4	16.0	1.1	2.4	22.2	15.9	0.7	2.1	22.5	15.9	0.6	5.7	22.9	15.7	0.6	2.9	22.9	15.7	0.6	2.9	22.9	15.7	0.6	2.9	22.9	15.7	0.6	2.9	0.7
62	22.0	15.1	-0.4	2.2	22.0	15.2	-0.2	2.1	22.2	15.0	-0.3	5.9	22.9	15.2	0.0	2.9	22.9	15.2	0.0	2.9	22.9	15.2	0.0	2.9	22.9	15.2	0.0	2.9	0.9
63	22.1	15.7	0.1	1.8	22.1	15.8	0.1	1.8	22.4	15.5	0.2	5.8	22.8	15.5	-0.1	2.6	22.8	15.5	-0.1	2.6	22.8	15.5	-0.1	2.6	22.8	15.5	-0.1	2.6	0.7
64	21.6	15.4	-0.5	2.3	21.7	15.5	-0.4	2.3	22.1	15.4	-0.3	5.5	22.5	15.3	-0.3	3.2	22.5	15.3	-0.3	3.2	22.5	15.3	-0.3	3.2	22.5	15.3	-0.3	3.2	0.9
65	21.5	15.2	-0.1	2.4	21.5	15.2	-0.2	2.1	22.0	15.1	-0.1	6.0	22.6	15.1	0.1	3.2	22.6	15.1	0.1	3.2	22.6	15.1	0.1	3.2	22.6	15.1	0.1	3.2	1.1
66	21.8	14.8	0.3	1.9	21.9	15.0	0.4	2.1	22.4	15.0	0.4	6.2	22.8	14.9	0.2	2.9	22.8	14.9	0.2	2.9	22.8	14.9	0.2	2.9	22.8	14.9	0.2	2.9	1.0
67	21.8	15.3	0.0	1.5	22.1	15.7	0.2	1.8	22.5	15.4	0.1	6.3	22.9	15.4	0.1	2.5	22.9	15.4	0.1	2.5	22.9	15.4	0.1	2.5	22.9	15.4	0.1	2.5	1.1
68	21.8	14.9	0.0	1.3	21.8	15.0	-0.3	1.2	22.2	14.9	-0.3	5.9	22.8	14.9	-0.1	2.3	22.8	14.9	-0.1	2.3	22.8	14.9	-0.1	2.3	22.8	14.9	-0.1	2.3	1.0
69	21.7	13.9	-0.1	1.1	21.7	13.9	-0.1	1.1	22.3	14.4	0.1	5.9	22.8	14.3	0.0	2.3	22.8	14.3	0.0	2.3	22.8	14.3	0.0	2.3	22.8	14.3	0.0	2.3	1.1
70	21.9	14.4	0.2	0.8	21.6	14.2	-0.1	0.7	22.0	14.2	-0.1	5.2	22.6	14.3	-0.2	1.8	22.6	14.3	-0.2	1.8	22.6	14.3	-0.2	1.8	22.6	14.3	-0.2	1.8	1.0
71	21.6	14.2	-0.3	1.7	21.9	14.5	0.3	2.1	22.3	14.5	0.3	6.7	22.8	14.5	0.2	2.9	22.8	14.5	0.2	2.9	22.8	14.5	0.2	2.9	22.8	14.5	0.2	2.9	1.2
72	19.4	14.6	-2.2	-0.1	19.3	14.5	-2.6	-0.2	19.6	14.4	-2.7	4.2	20.2	14.5	-2.6	0.7	20.2	14.5	-2.6	0.7	20.2	14.5	-2.6	0.7	20.2	14.5	-2.6	0.7	0.9

**Test Point #10**



5465 Colfax Ave  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571 Date: 02/18/06

Run	1				2				3				4				
	Time: 00:01:04				Time: 06:02:16				Time: 12:01:37				Time: 18:02:07				
Temp	35				33				37				30				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
73	21.6	14.8	2.2	1.7	21.5	14.6	2.2	1.7	22.0	14.8	2.4	6.1	22.5	14.9	2.3	2.6	1.0
74	21.9	14.8	0.3	1.4	21.8	14.7	0.3	1.4	22.4	14.8	0.4	6.3	22.8	14.8	0.3	2.3	1.0
75	21.5	15.7	-0.4	1.0	21.4	15.6	-0.4	2.9	22.0	15.7	-0.4	5.8	22.4	15.8	-0.4	2.0	1.0
76	21.2	14.5	-0.3	2.2	21.1	14.4	-0.3	2.7	21.7	14.6	-0.3	7.5	22.0	14.5	-0.4	3.0	0.9
77	20.6	15.3	-0.6	3.1	20.6	15.9	-0.5	3.2	20.9	15.4	-0.8	7.9	21.4	15.3	-0.6	4.2	0.8
78	21.3	15.2	0.7	3.3	21.6	16.0	1.0	4.3	21.7	15.2	0.8	7.3	22.2	15.3	0.8	3.3	0.9
Min Value	14.9	13.9	-2.3	-4.5	13.4	13.7	-2.6	-6.6	18.2	13.7	-2.7	0.6	18.5	14.0	-2.6	-0.4	0.4
Max Value	22.4	16.0	2.6	3.3	22.2	16.1	2.6	4.3	22.5	15.9	2.8	7.9	22.9	15.8	2.7	4.2	6.4

Notes:

\*1 - Station off air - standby by carrier in use

\*2 - New channel addition there is no 6 month reference



## **Distortion Measurements**

Comcast of Alexandria, VA performed distortion tests at 11 test points, as required by the FCC (76.601 (c)(1)), which states that at least 6 test points for the first 12,500 subscribers, adding 1 test point for each additional 12,500 subscribers. Comcast of Alexandria's subscriber count is 49,199 as of 01/01/06. All of Comcast's test points are distributed through the outer edges of the county at its farthest node locations, with the test points being at the end-of-line. Which meets the requirement that all geographic areas be represented and at least 1/3 of the test points being the most distant points in the system. At each test point, 9 channels were tested for distortions as required by the FCC (76.601(c)(2)), which states at least 4 channels must be tested at each test point, adding 1 channel for each 100 MHz block above 100 MHz. Comcast of Arlington's analog bandwidth is 550 MHz.

### **Current FCC distortion specifications are as follows:**

The C/N measurement (76.605 (a)(7)(ii)) shall not be less than 43dB.

The CTB, CSO and X-mod measurements (76.605 (a)(8)(I)) shall not be less than 51dB.

The HUM measurement (76.605(a)(10)) shall not exceed 3.0%.

The Aural Carrier Difference (4.5 Difference)(76.605 (a)(2)) must be 4.5 MHz above the Visual Carrier, +/- 5KHz.

The In-Channel Frequency Response (In-Band Frequency Response) (76.605 (a)(6)) should not vary by more than +/- 2dB.

# Test Point #11



2357 N Early St.  
 Alexandria, VA  
 FCC Distortion Measurements  
 EQUIPMENT USED:  
 H/P 8591C, S/N 3916A04384  
 Pre-Amplifier 85905A, S/N 6093-0551  
 Cybertec Examiner 101129-001  
 CONVERTER BOX SA 8511, S/N GF505BFDN

CH.	FREQ. RSP 2dB Max	HUM% 3% Max	CSO 51dB Min	CTB 51dB Min	C/N 43dB Min	4.5 DIFF 5KHz Max
2	0.9	2	56.0	56.8	43	4.5000
95	0.2	1.2	53.8	57.2	43	4.5000
21	0.6	1.3	65.4	58.2	44.1	4.5000
8	0.9	1	57	57.5	44.3	4.5000
28	0.8	1.2	67.1	59	44.7	4.5000
32	1	1.1	63	62.1	44.3	4.5000
47	1	8	61.4	60.9	43.7	4.5000
58	1.7	1.1	59.1	59.4	43.9	4.4999
72	0.9	1.3	58.5	61.4	43.0	4.4999
Minimum values:						
	0.2	1.0	53.8	56.8	43.0	4.4999
Maximum values:						
	1.7	8.0	67.1	62.1	44.7	4.5000

Date: 02/15/06 Time: 5:30 pm Temp: 45



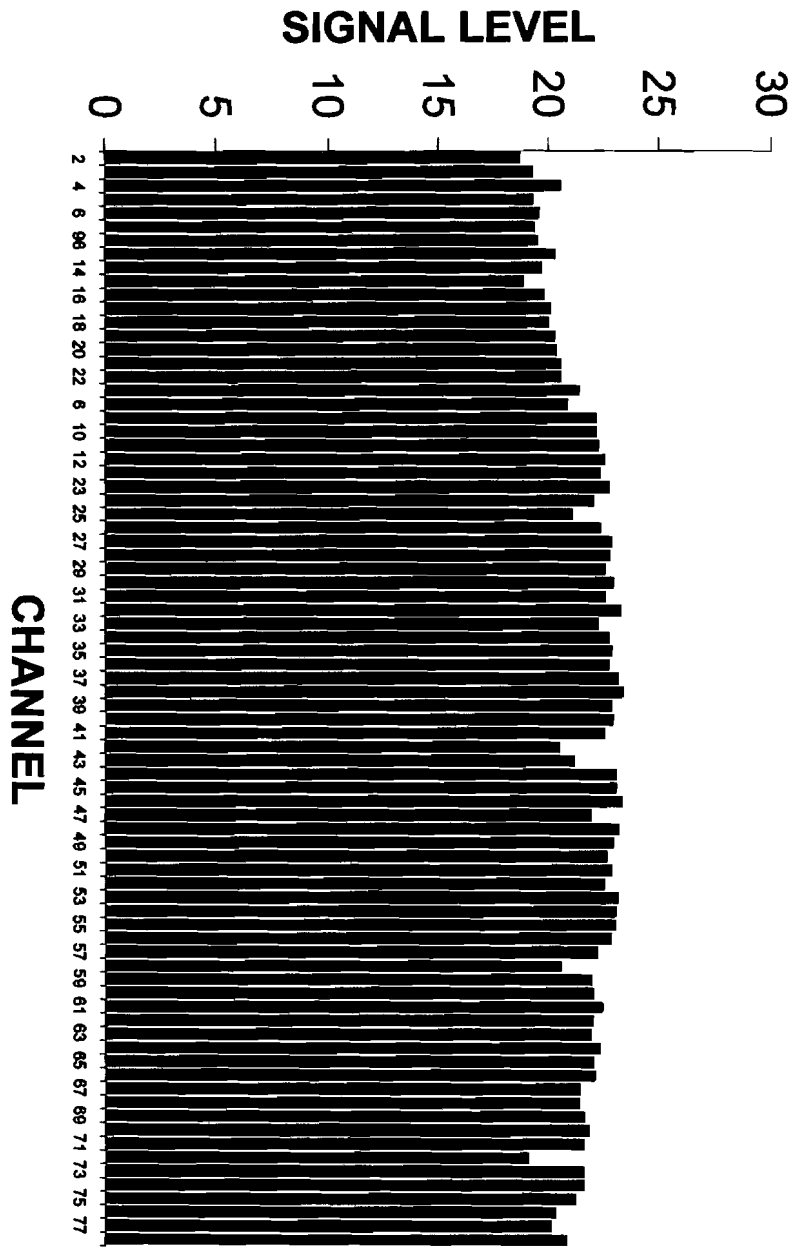
### Signal Level Variance

The ranges allowed by the FCC (76.605 (a)(4)(i,ii,iii)) are as follows:

4. Each level shall not vary by more than 8dB within any 6-month interval.
  - i. Adjacent channel level to be within 3dB of each other.
  - ii. Visual signal level on any other channel on a cable television system should be less than 10dB for systems of up to 300 MHz; for each additional 100 MHz, add 1dB to maximum difference level.
  - iii. A maximum level such that signal degradation due to overload in the subscriber's Receiver or terminal does not occur.



**TEST POINT #11**



■ The maximum signal level is 24 dBmV

The maximum adjacent channel level difference is 2.8 dBmV  
The maximum level difference between the highest and lowest is 5.1 dBmV  
The maximum six month variance is 7.9 dBmV

**Test Point #11**

**Comcast**

2357 N Early St

24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571

Date: 02/18/06

Run	1				2				3				4				
	Time: 00:20:54				Time: 06:23:14				Time: 12:17:19				Time: 18:17:54				
Temp	35				33				37				30				
Chan	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	Vid Lvl	Aud Diff	Adjcnt Diff	6 Mth Diff	24 HR Vid Diff
2	18.7	13.6		1.3	18.5	13.5		1.0	18.7	13.7		1.1	18.9	13.4		1.4	0.4
3	19.3	14.7	0.6	2.2	19.0	14.4	0.5	1.7	19.3	14.6	0.6	1.8	19.7	14.9	0.8	2.7	0.7
4	20.6	15.8	1.3	4.1	19.7	14.9	0.7	3.7	20.0	15.2	0.7	3.6	20.7	15.6	1.0	4.5	1.0
5	19.3	15.5	-1.3	2.6	18.5	14.5	-1.2	2.0	19.1	15.3	-0.9	2.3	19.0	14.8	-1.7	2.5	0.8
6	19.6	15.4	0.3	2.7	19.5	15.4	1.0	2.7	19.5	15.4	0.4	2.6	20.1	15.6	1.1	3.1	0.6
95	19.4	15.0	-0.2	1.7	19.5	15.1	0.0	1.9	19.2	14.8	-0.3	1.2	19.4	14.6	-0.7	1.5	0.3
96	19.5	14.8	0.1	1.7	19.6	14.8	0.1	1.9	19.5	14.7	0.3	1.7	19.9	14.7	0.5	2.0	0.4
99	20.3	15.5	0.8	2.6	20.3	15.4	0.7	2.6	20.4	15.4	0.9	2.8	20.7	15.4	0.8	3.1	0.4
14	19.7	15.1	-0.6	2.5	19.6	15.1	-0.7	2.2	19.6	15.0	-0.8	2.1	20.0	15.1	-0.7	2.8	0.4
15	18.9	14.8	-0.8	2.7	19.0	14.9	-0.6	2.9	19.2	14.9	-0.4	3.0	19.4	15.0	-0.6	3.3	0.5
16	19.8	15.3	0.9	3.2	19.9	15.4	0.9	3.1	19.8	15.3	0.6	2.9	20.2	15.1	0.8	3.6	0.4
17	20.1	14.7	0.3	2.6	20.2	14.9	0.3	2.8	20.0	14.7	0.2	2.4	20.5	14.7	0.3	3.0	0.5
18	20.0	15.8	-0.1	3.5	20.0	15.8	-0.2	3.8	19.8	15.4	-0.2	3.2	20.4	15.7	-0.1	3.9	0.6
19	20.3	14.7	0.3	3.1	20.5	14.9	0.5	5.6	20.5	14.9	0.7	3.5	20.8	14.7	0.4	3.8	0.5
20	20.4	15.1	0.1	3.2	20.3	15.0	-0.2	3.3	20.5	15.2	0.0	3.2	20.8	14.9	0.0	3.8	0.5
21	20.6	14.8	0.2	3.6	20.4	14.6	0.1	3.3	20.5	14.6	0.0	3.2	21.0	14.7	0.2	4.0	0.6
22	20.6	14.7	0.0	2.9	20.7	14.7	0.3	3.0	20.8	14.8	0.3	3.0	21.2	14.8	0.2	3.3	0.6
7	21.4	14.9	0.8	4.2	20.5	13.8	-0.2	3.2	21.1	14.6	0.3	3.6	21.8	14.8	0.6	4.6	1.3
8	20.9	15.0	-0.5	3.5	20.9	15.0	0.4	3.5	21.1	15.2	0.0	3.6	21.6	15.2	-0.2	4.3	0.7
9	22.2	14.9	1.3	4.4	21.9	14.5	1.0	4.1	22.5	15.1	1.4	4.5	23.0	15.1	1.4	5.2	1.1
10	22.2	15.1	0.0	3.5	22.5	15.3	0.6	3.8	22.4	15.3	-0.1	3.7	22.9	15.2	-0.1	4.3	0.7
11	22.3	15.0	0.1	3.2	22.3	15.0	-0.2	3.2	22.4	15.0	0.0	3.3	22.8	15.0	-0.1	3.8	0.5
12	22.6	15.2	0.3	3.2	22.3	15.0	0.0	2.9	22.6	15.3	0.2	3.1	23.1	15.3	0.3	3.6	0.8
13	22.4	15.1	-0.2	3.1	22.6	15.3	0.3	3.4	22.8	15.3	0.2	3.2	23.1	15.3	0.0	3.6	0.7
23	22.8	15.2	0.4	4.6	22.8	15.4	0.2	4.6	22.9	15.3	0.1	4.5	23.2	15.3	0.1	5.0	0.4
24	22.1	14.5	-0.7	4.0	22.1	15.0	-0.7	3.8	22.2	15.0	-0.7	4.2	22.8	15.1	-0.4	5.0	0.7
25	21.1	14.7	-1.0	4.1	21.1	14.7	-1.0	4.0	21.4	15.1	-0.8	4.3	21.8	15.0	-1.0	4.7	0.7
26	22.4	15.2	1.3	4.2	22.6	15.3	1.5	4.2	22.2	15.0	0.8	3.8	22.9	15.3	1.1	4.5	0.7
27	22.9	15.3	0.5	4.5	22.5	15.0	-0.1	4.0	22.9	15.1	0.7	4.4	23.2	15.1	0.3	4.8	0.7
28	22.8	15.0	-0.1	3.5	22.8	15.0	0.3	3.3	22.9	15.1	0.0	3.4	23.2	14.9	0.0	3.9	0.4
29	22.6	15.1	-0.2	4.1	22.6	15.2	-0.2	4.2	22.7	15.1	-0.2	4.1	23.2	15.1	0.0	4.8	0.6
30	23.0	15.5	0.4	4.3	22.8	15.1	0.2	4.1	22.9	15.3	0.2	4.1	23.4	15.4	0.2	4.6	0.6
31	22.6	14.4	-0.4	4.1	22.8	14.7	0.0	4.3	22.6	14.4	-0.3	4.0	23.1	14.4	-0.3	4.5	0.5
32	23.3	15.7	0.7	4.5	23.0	15.4	0.2	4.0	23.2	15.7	0.6	3.9	23.7	15.7	0.6	4.8	0.7

### Test Point #11

**Comcast**

2357 N Early St  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571

Date: 02/18/06

Run	1				2				3				4				
	Time: 00:20:54				Time: 06:23:14				Time: 12:17:19				Time: 18:17:54				
Temp	35				33				37				30				
Chan	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	Vid	Aud	Adjcnt	6 Mth	24 HR
33	22.3	14.8	-1.0	4.4	22.2	14.7	-0.8	4.6	22.3	14.8	-0.9	4.4	22.6	14.7	-1.1	4.8	0.4
34	22.8	14.8	0.5	4.8	22.9	14.8	0.7	5.0	22.8	14.8	0.5	4.7	23.2	14.7	0.6	5.3	0.4
35	22.9	15.1	0.1	4.5	22.8	15.1	-0.1	4.3	23.0	15.2	0.2	4.2	23.5	15.3	0.3	5.1	0.7
36	22.8	14.8	-0.1	4.2	22.9	14.9	0.1	4.6	22.8	14.7	-0.2	4.3	23.3	14.8	-0.2	4.9	0.5
37	23.2	15.2	0.4	4.2	23.1	15.0	0.2	4.1	23.3	15.2	0.5	4.3	23.8	15.3	0.5	4.8	0.7
38	23.4	15.4	0.2	4.2	23.3	15.3	0.2	3.8	23.4	15.3	0.1	4.0	23.9	15.4	0.1	5.0	0.6
39	22.9	15.0	-0.5	4.3	22.8	14.9	-0.5	4.2	23.0	15.2	-0.4	4.2	23.4	15.2	-0.5	4.7	0.6
40	23.0	15.5	0.1	4.7	23.1	15.6	0.3	4.8	22.8	15.4	-0.2	4.4	23.2	15.3	-0.2	4.9	0.4
41	22.6	15.2	-0.4	3.9	22.4	15.0	-0.7	3.7	22.7	15.3	-0.1	4.1	23.0	15.1	-0.2	4.3	0.6
42	20.5	14.2	-2.1	4.0	20.5	14.4	-1.9	4.0	20.6	14.4	-2.1	4.3	21.2	14.4	-1.8	4.6	0.7
43	21.2	15.8	0.7	4.7	21.0	15.6	0.5	4.5	21.1	15.6	0.5	4.6	21.7	15.7	0.5	5.2	0.7
44	23.1	15.0	1.9	5.6	23.0	14.9	2.0	5.5	23.0	14.7	1.9	5.4	23.5	14.9	1.8	5.9	0.5
45	23.1	14.9	0.0	5.5	23.2	15.1	0.2	5.9	23.3	15.1	0.3	5.9	23.7	15.2	0.2	6.2	0.6
46	23.4	15.2	0.3	5.1	23.2	15.0	0.0	4.9	23.4	15.3	0.1	5.3	24.0	15.4	0.3	6.0	0.8
47	22.0	15.5	-1.4	4.7	21.6	15.2	-1.6	4.3	21.6	15.1	-1.8	4.1	22.3	15.4	-1.7	5.1	0.7
48	23.2	15.3	1.2	5.3	22.9	15.1	1.3	5.1	23.1	15.2	1.5	4.9	23.5	15.2	1.2	5.5	0.6
49	23.0	15.2	-0.2	4.4	23.0	15.3	0.1	4.4	23.2	15.4	0.1	4.5	23.5	15.4	0.0	4.9	0.5
50	22.7	14.8	-0.3	4.8	22.7	14.8	-0.3	4.6	22.7	14.8	-0.5	4.4	23.2	14.8	-0.3	5.1	0.5
51	22.9	15.0	0.2	5.0	22.8	14.8	0.1	5.0	22.7	14.7	0.0	4.5	23.3	14.9	0.1	5.3	0.6
52	22.6	14.2	-0.3	4.3	22.9	14.5	0.1	4.4	23.1	14.7	0.4	4.6	23.3	14.5	0.0	5.0	0.7
53	23.2	14.6	0.6	4.7	23.0	14.5	0.1	4.8	23.1	14.6	0.0	4.2	23.6	14.7	0.3	4.9	0.6
54	23.1	14.7	-0.1	5.0	23.0	14.5	0.0	4.7	23.0	14.5	-0.1	4.6	23.3	14.3	-0.3	4.9	0.3
55	23.1	15.0	0.0	4.7	22.9	14.9	-0.1	4.3	22.9	14.8	-0.1	4.1	23.5	15.0	0.2	4.9	0.6
56	22.9	15.2	-0.2	4.7	22.7	14.9	-0.2	4.4	22.8	15.0	-0.1	4.6	23.3	15.1	-0.2	5.2	0.6
57	22.3	14.3	-0.6	4.5	22.4	14.5	-0.3	4.5	22.5	14.4	-0.3	4.6	22.9	14.4	-0.4	5.1	0.6
58	20.6	15.1	-1.7	4.6	20.7	15.4	-1.7	4.6	20.4	14.9	-2.1	4.4	21.1	15.3	-1.8	5.1	0.7
59	22.0	14.8	1.4	4.8	21.9	14.7	1.2	4.8	22.0	15.0	1.6	4.9	22.4	14.8	1.3	5.5	0.5
60	22.1	14.9	0.1	5.5	22.1	14.8	0.2	5.7	22.2	15.0	0.2	5.4	23.0	15.3	0.6	6.4	0.9
61	22.5	15.9	0.4	5.5	22.5	16.0	0.4	5.6	22.5	15.9	0.3	5.7	23.0	15.9	0.0	6.2	0.5
62	22.1	15.3	-0.4	5.7	22.1	15.2	-0.4	5.5	22.3	15.3	-0.2	5.9	22.8	15.4	-0.2	6.5	0.7
63	22.0	14.7	-0.1	5.3	21.9	14.6	-0.2	5.3	22.2	14.7	-0.1	5.4	22.7	14.8	-0.1	6.1	0.8
64	22.4	15.1	0.4	5.7	22.4	15.5	0.5	5.6	22.7	15.7	0.5	6.0	23.1	15.6	0.4	6.5	0.7
65	22.1	15.2	-0.3	5.8	22.2	15.3	-0.2	6.1	22.2	15.2	-0.5	6.1	22.7	15.1	-0.4	6.7	0.6
66	22.2	15.4	0.1	5.9	22.2	15.4	0.0	5.8	22.3	15.6	0.1	5.8	22.6	15.3	-0.1	6.4	0.4
67	21.5	15.1	-0.7	5.3	21.5	15.2	-0.7	5.4	21.5	15.2	-0.8	5.3	22.0	15.1	-0.6	5.8	0.5
68	21.5	14.6	0.0	5.2	21.5	14.8	0.0	5.0	21.6	14.8	0.1	5.1	22.1	14.8	0.1	5.8	0.6
69	21.7	14.4	0.2	5.2	21.8	14.5	0.3	5.4	21.6	14.2	0.0	5.0	22.3	14.5	0.2	5.9	0.7
70	21.9	14.5	0.2	5.2	21.7	14.4	-0.1	4.8	21.6	14.2	0.0	4.4	22.1	14.2	-0.2	5.3	0.5
71	21.7	14.7	-0.2	6.3	21.6	14.6	-0.1	6.0	21.7	14.7	0.1	5.9	22.3	14.7	0.2	6.7	0.7
72	19.1	14.3	-2.6	3.9	19.0	14.3	-2.6	3.4	19.0	14.2	-2.7	3.8	19.5	14.1	-2.8	4.1	0.5

### Test Point #11

**Comcast**

2357 N Early St  
24 Hour Level Variation

Equipment Used: 100' drop, Wavetek SDA-5000 Signal Level Meter S/N 4340571

Date: 02/18/06

Run 1					2				3				4				
Time: 00:20:54					Time: 06:23:14				Time: 12:17:19				Time: 18:17:54				
Temp 35					33				37				30				
Chan	Vid	Aud	Adjct	6 Mth	Vid	Aud	Adjct	6 Mth	Vid	Aud	Adjct	6 Mth	Vid	Aud	Adjct	6 Mth	24 HR
73	21.7	14.9	2.6	6.3	21.6	14.6	2.6	6.2	21.5	14.7	2.5	5.6	22.1	14.8	2.6	6.2	0.6
74	21.7	14.9	0.0	5.6	21.9	15.2	0.3	5.8	21.8	15.0	0.3	5.5	22.3	15.0	0.2	6.2	0.6
75	21.3	16.1	-0.4	5.3	21.2	16.0	-0.7	5.0	21.4	16.2	-0.4	5.0	21.9	16.2	-0.4	5.7	0.7
76	20.4	14.4	-0.9	6.2	20.7	14.8	-0.5	6.8	20.7	14.7	-0.7	6.2	21.3	14.8	-0.6	7.1	0.9
77	20.2	15.3	-0.2	7.4	20.4	15.5	-0.3	7.5	20.3	15.8	-0.4	7.2	20.9	15.8	-0.4	7.9	0.7
78	20.9	15.6	0.7	7.3	19.3	15.2	-1.1	6.4	20.9	15.2	0.6	6.3	21.5	15.2	0.6	7.1	2.2
Min Value	18.7	13.6	-2.6	1.3	18.5	13.5	-2.6	1.0	18.7	13.7	-2.7	1.1	18.9	13.4	-2.8	1.4	0.3
Max Value	23.4	16.1	2.6	7.4	23.3	16.0	2.6	7.5	23.4	16.2	2.5	7.2	24.0	16.2	2.6	7.9	2.2

Notes:

\*1 - Station off air - standby by carrier in use

\*2 - New channel addition there is no 6 month reference

THE FLYOVER COMPANY, LLC

FLYOVER REPORT FOR  
COMCAST  
CABLE SYSTEMS

ALEXANDRIA, VA

TESTED AUGUST 19, 2005

---

*The Flyover Company*

*5326 Willowbend Trail*

*Kalamazoo, MI 49009*

*269-808-3543*

*[www.theflyovercompany.com](http://www.theflyovercompany.com)*

*269-744-1156*

# CONTENTS

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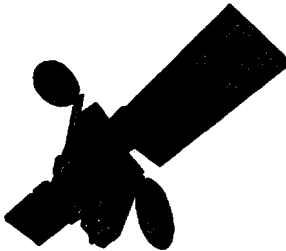
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## **INTRODUCTION**

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The Flyover Company conducts aerial cable leakage inspection utilizing the technology of the global positioning satellite (G.P.S.) system, a digital receiver system, a calibrated horizontally polarized antenna system, and an onboard computer system utilizing mapping and monitoring software. The Flyover Company conducts tests in accordance with the basic signal leakage criteria outlined in 47 CFR Section 76.611.

**GPS Satellite**



**Onboard Computer**



**Comsonics Sniffer Sleuth**



**Inspection Aircraft**



## **HOW THE TEST IS DONE**

---

The aircraft is flown over the system while monitoring a test signal installed at the cable head-end. The technician onboard records data into a laptop, which collects signal data from a Comsonics Sniffer Sleuth cable leakage receiver, which is attached to a horizontally polarized antenna on the aircraft. The data is compiled with a signal from an onboard G.P.S. receiver to record the accurate time and precise location. This data is then analyzed and engineered through a CAD/GIS system at the corporate office to create this report.

# PROCEDURE

---

## Pre-Flyover

Determine system boundaries and import into DeLorme mapping software to form a cable plant boundary polygon.

The cable plant polygon is used with the CLI crew's on-board CLI survey software.

Determine channel and time for testing, using a negative offset modulated carrier between 108 and 140 MHz. Choose a negative offset frequency from common video for channel to be tested.

Perform CLI receiver calibration using Lindsay ground calibration antenna with a modulated test signal at 10 uV/m at 1476 feet using a HP Signal Generator 8647A-1E5.

Use the following formulas to establish signal generator input level for aerial calibration:

## Calibration

Establish signal generator input levels that will be used to calibrate Sniffer Sleuth receiver based on a 10 μV/m leak at 1500 feet.

- a. **Convert uV/m to dB:**
- |  |                |   |
|--|----------------|---|
|  | ██████████ Mhz | Frequency(Mhz)  |
|  | 10 uV/m        | uV/m or 'E'   |
|  | -48.81 dB      | $(20 \cdot \log(E)) - (20 \cdot \log(20.7 \cdot \text{Frequency}))$ |
- b. **Determine Free Space Loss at 450 meters:**
- |  |                          |   |
|--|--------------------------|---|
|  | 133.2375 Mhz             | Frequency(Mhz)  |
|  | 1476.38 Feet (450meters) | Distance(Feet)  |
|  | 68.01 dB                 | $20 \cdot \log(\text{Frequency}) + \log(\text{Distance}) - 37.87$ |
- c. **Determine Signal Level input for calibration expressed in millivolts:**
- |                 |                 |  |
|-----------------|-----------------|--|
|                 | -48.81 dB       | 10uV/m level expressed dBmv for test frequency |
| <i>Add</i>      | <u>68.01</u> dB | Free Space Loss                                |
| <i>Equals</i>   | 19.19 dB        | Total  |
| <i>dB to mV</i> | 9.11 mV         | $10^{((\text{dB})/20)}$                        |

Test signal level input of generator with signal level meter to insure accuracy.

Perform aerial calibration runs recording highest reading in uV/m to obtain a calibration factor to be used in post CLI process. Highest recorded number during calibration runs for this specific test was 10 uV/m

## Signal Insertion

Determine exact channel and time for testing, based on client's request. Use a negative offset modulated carrier in the aeronautical NAV band between 108 and 117.9 MHz, or in the aeronautical COM band between 118 and 136 MHz.



## **PROCEDURE**

---

Test frequency must be offset from aeronautical frequency allocations by 25 kHz in the NAV band and 12.5 kHz in the COM band. Normally the test frequency is chosen based on the video carrier of the channel taken off line.

Insert modulated carrier to cable head-end:

- a. Turn off video modulator for channel being used for aerial CLI.
- b. Insert signal generator to the combining network at 133.2375 MHz.
- c. Measure signal level at 133.2375 MHz with spectrum analyzer and/or signal level meter. Then adjust signal generator output level so test frequency reads 1 dB above adjacent channels.
- d. Leave test signal on during aerial CLI.

### **System Flyover**

Perform system flyover at 1476 feet in a road or grid pattern (all plant covered within ½ mile of pattern). Data from the GPS and Sleuth signal level readings are simultaneously combined using customized software. The software collects data from the CLI hardware which creates several thousand sample points which are temporarily stored on the CLI laptop computer onboard the aircraft.

Upon completion of the flyover, the cable channel is restored and TFC equipment is retrieved from the head-end.

The survey pilots send CLI data via internet to TFC engineering office in Kalamazoo, MI for post test analysis and creation of this report.

### **Engineering Process**

Use calibration factor to adjust sample points recorded for hardware level loss. This factor was obtained during aerial calibration using the FSL to measure 10 uV/m leak at 1476 feet.

Filter all data points outside of system boundary polygon.

Develop a frequency distribution graph, probability graph and a listing of all relative high readings.

Plot all leak levels on digitized map showing the general locations of all relative high readings along with the flight pattern.

Create final report to be sent to cable company.

## **TEST RESULTS**

---

Test results for the ALEXANDRIA, VA system test, which was flown at 1:44 AM on AUGUST 19, 2005, with an FCC system score of 100% with 100% of the system being tested.

The test signal was initiated at the Alexandria head end using a frequency of 133.2375 MHz.

There were no signs of interference from ATC, navigational beacons, or RF transmission towers at this specific test frequency for this test area.

The system was flown using a grid pattern as well as flying over single roads where the grid pattern was not applicable.

Calibration of the receiver and dipole was conducted prior to the test in accordance with FCC procedures.

## **TEST RESULTS DATA**

---

Sample points = 1550  
Points >10 uV/m = 0  
Lowest Reading = 0.23 uV/m  
Highest Reading = 8.2 uV/m  
Average Intensity = 2.96 uV/m

Major Leaks = 0  
Moderate Leaks = 0  
Minor Leaks = 4

FCC System Score (leaks <10 uV/m) = 100%

## **CONCLUSION**

---

The Flyover Company found that the system is in excellent condition after final assessment.

**Major Leaks**

(Leaks measuring from 20 uV/m and above)

There were no major leaks detected.

**Moderate Leaks**

(Leaks measuring from 10 uV/m – 19 uV/m)

There were no moderate leaks detected.

**Minor Leaks**

(Leaks measuring from normal system field strength to 9 uV/m. Leaks are not calculated into overall system score)

There were four minor leaks detected.

- #1) 8 uV/m leak located at: N38° 50' 7.21" W77° 06' 26.55"
- #2) 7 uV/m leak located at: N38° 49' 51.16" W77° 03' 49.65"
- #3) 6 uV/m leak located at: N38° 48' 23.95" W77° 03' 4.61"
- #4) 6 uV/m leak located at: N38° 49' 36.85" W77° 07' 6.67"

# EXHIBIT C

ALEXANDRIA, VA

System Score 100% <10 uV/m

Sample Points = 1550

Highest Reading = 8.2 uV/m

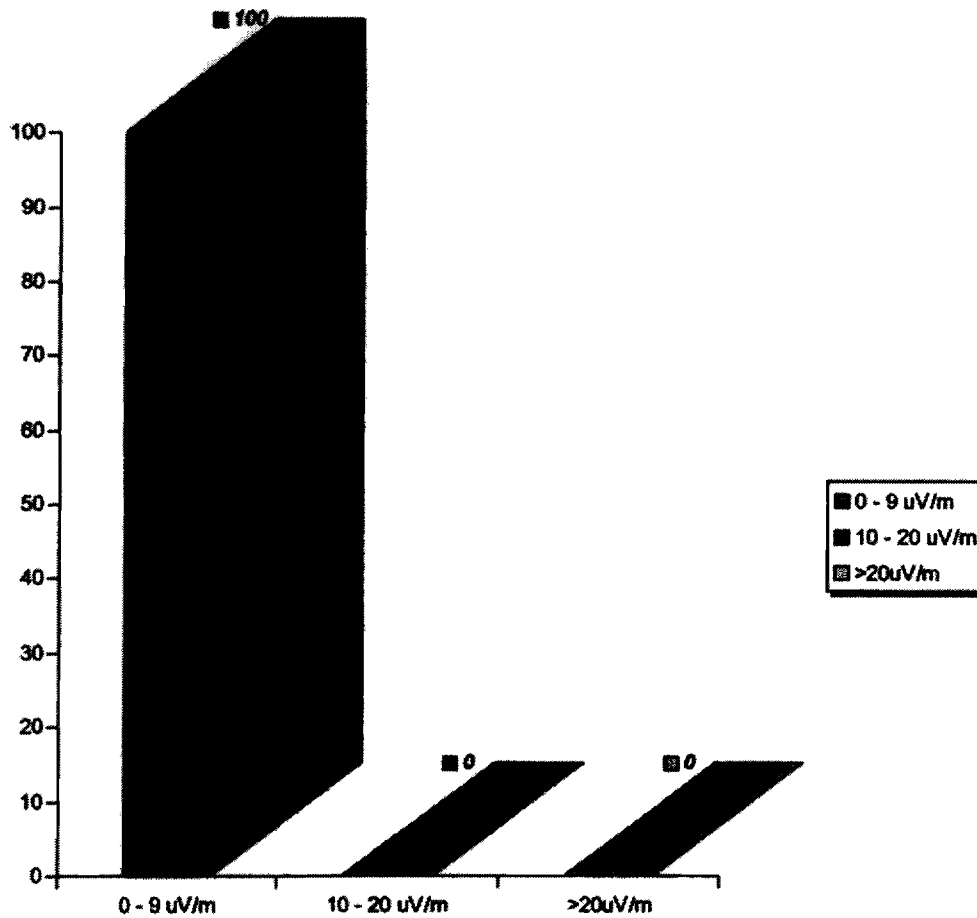
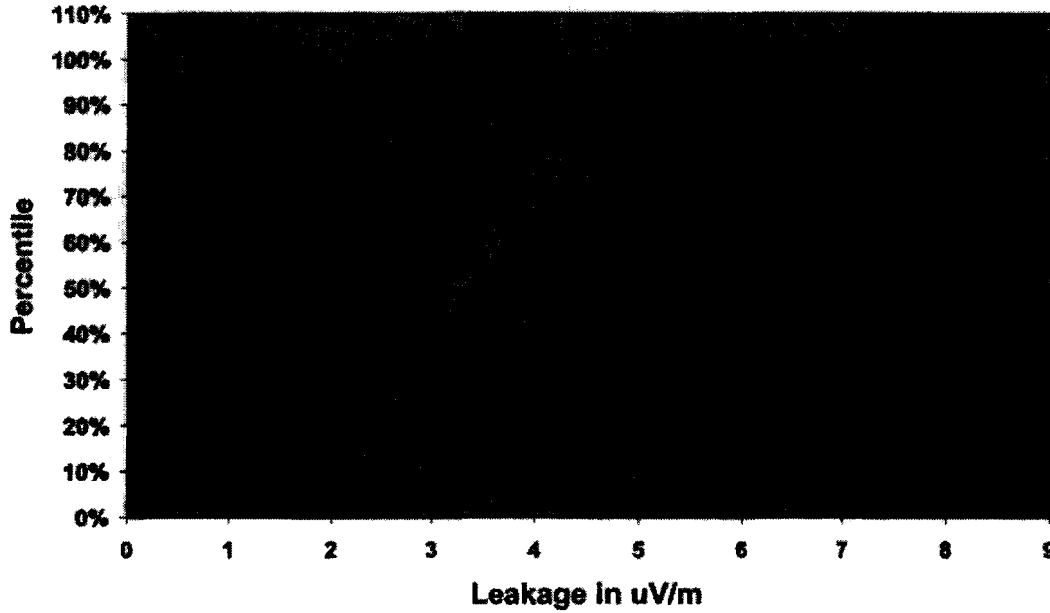
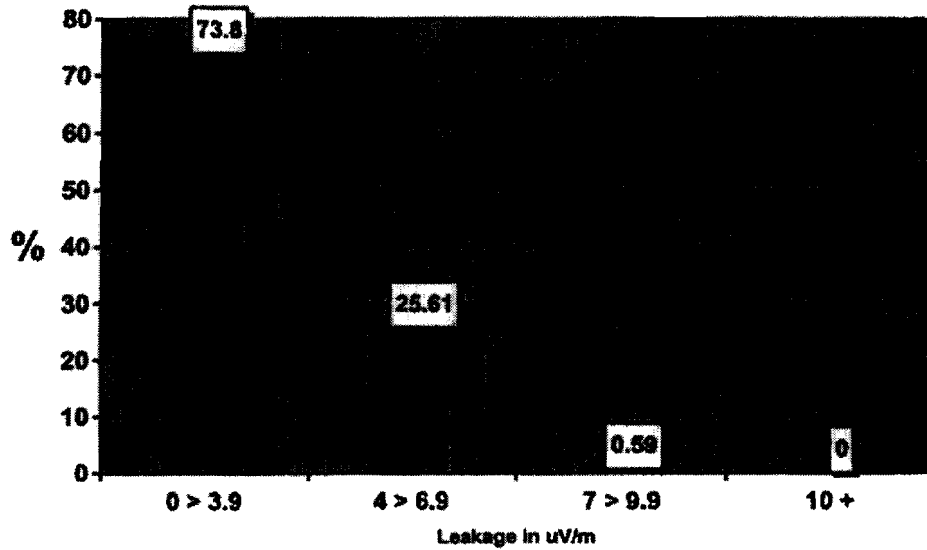


Exhibit C  
AUGUST 19, 2005

**Probabililty Graph for Alexandria, VA**



**Leakage Groups**



## **CALIBRATION DATA**

---

### *Equipment*

### *Calibration Due Date*

#### **Head-End Insertion Equipment**

HP Signal Generator model 8647A-1E5

Annual – 01/19/2006

HP Signal Generator model 8647A-1E5

Annual – 01/19/2006

#### **Test Equipment**

Lindsay Calibration Antenna\*

Annual – 03/18/2006

Aircraft Antenna\*

Daily

Comsonics Sniffer Sleuth – 001\*

Daily/Annual – 08/01/2006

Comsonics Sniffer Sleuth – 002\*

Daily/Annual – 08/01/2006

Trilithic Band Pass Filter\*

Daily/Annual – 08/01/2006

Wave-Tek Line SAM II

Daily/Annual – 08/01/2006

Laptop Computer

N/A

Specialized Leak Recorder Software

N/A

Garmin GPS WAAS Enabled

N/A

\* Daily calibration conducted prior to flyover test IAW FCC standards.

## MAP LEGEND

---



0-3 uV/m Track



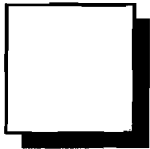
4-6 uV/m Track



6-9 uV/m Track



10-20 uV/m Track



Topographic Region



Cable System Boundary

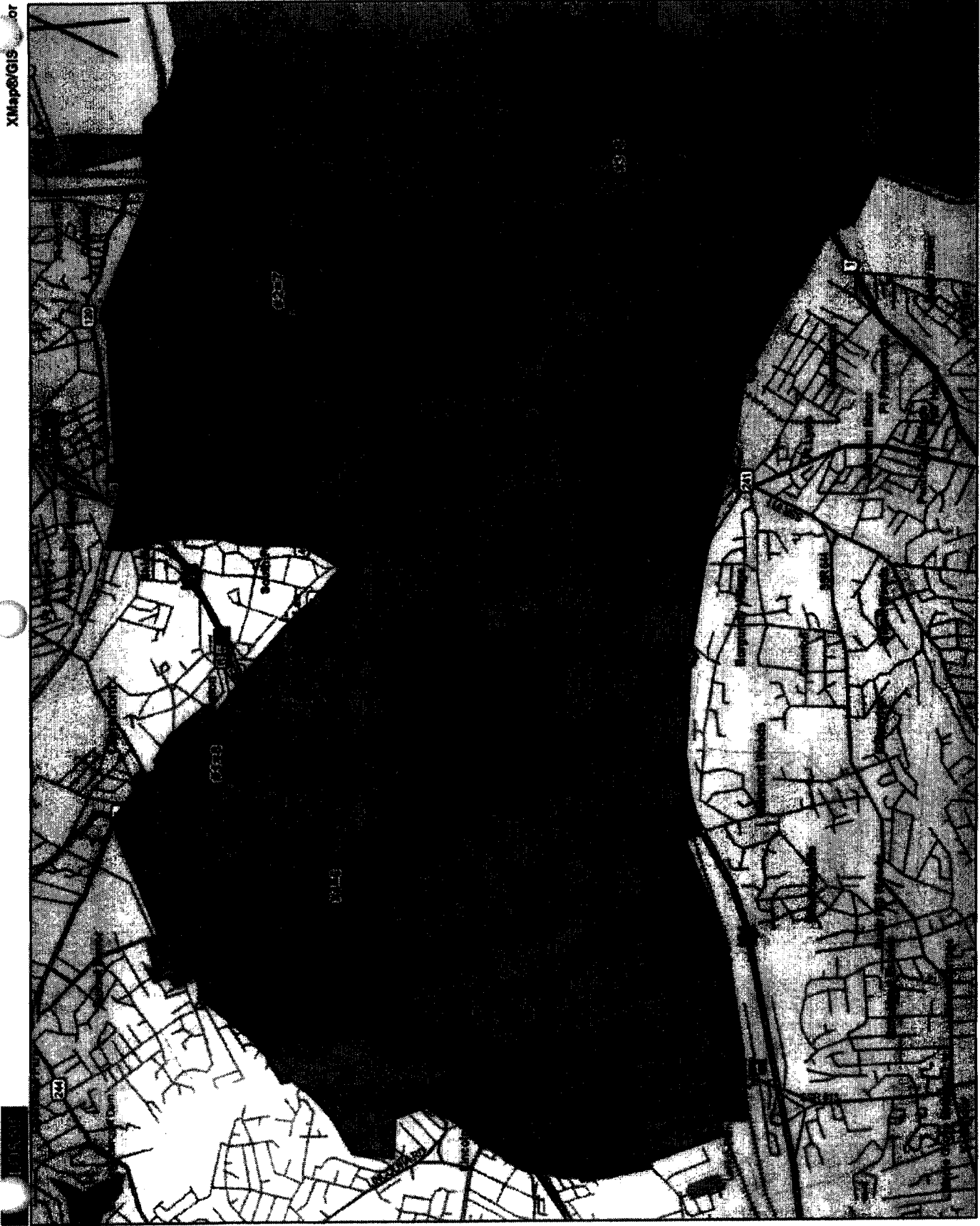
## MAPS

---

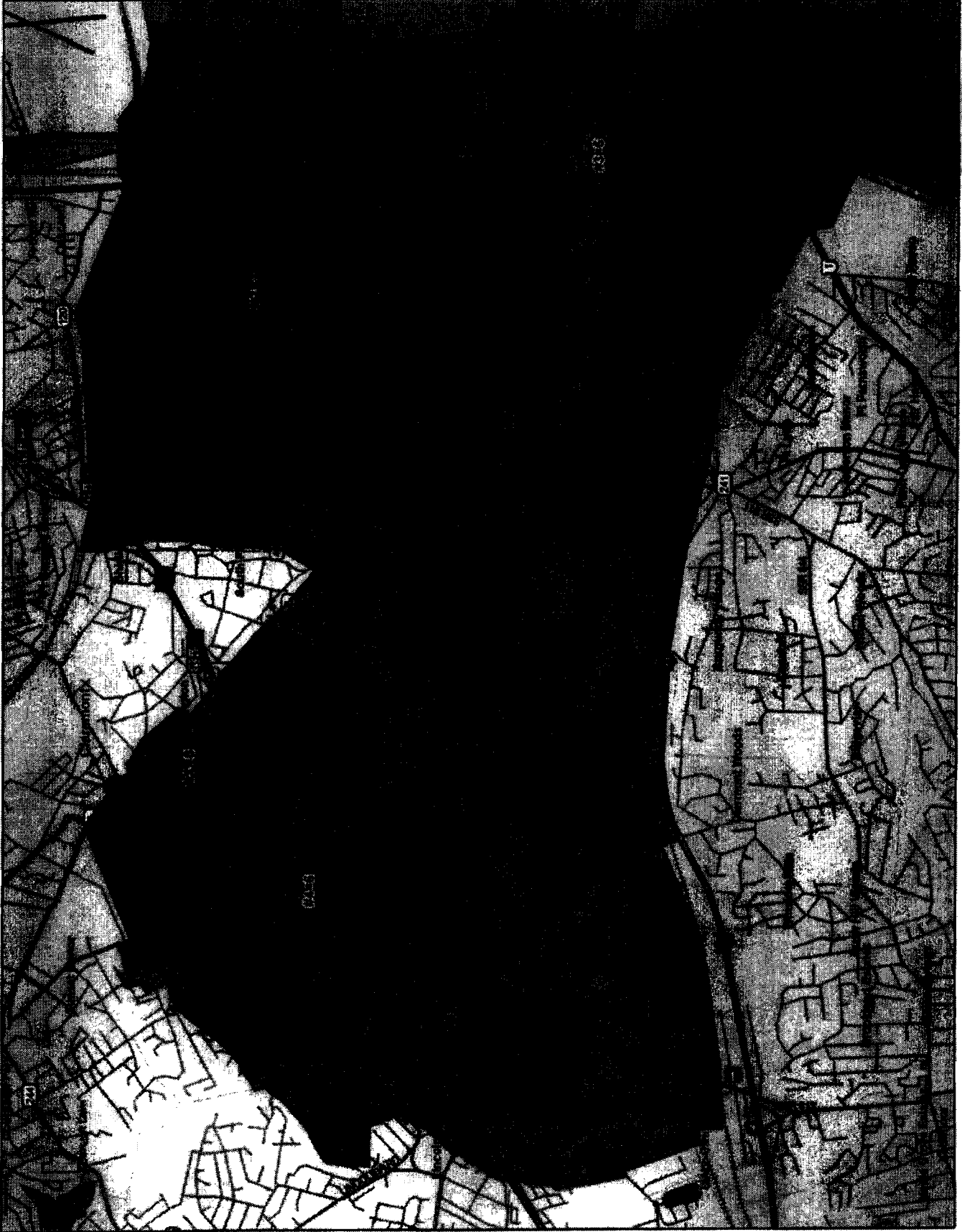
**Map 1** is a topographic map outlining the cable system with the associated leaks 10 uV/m and higher

**Map 2** is a topographic map outlining the cable system with the associated colored leak data with flight track.

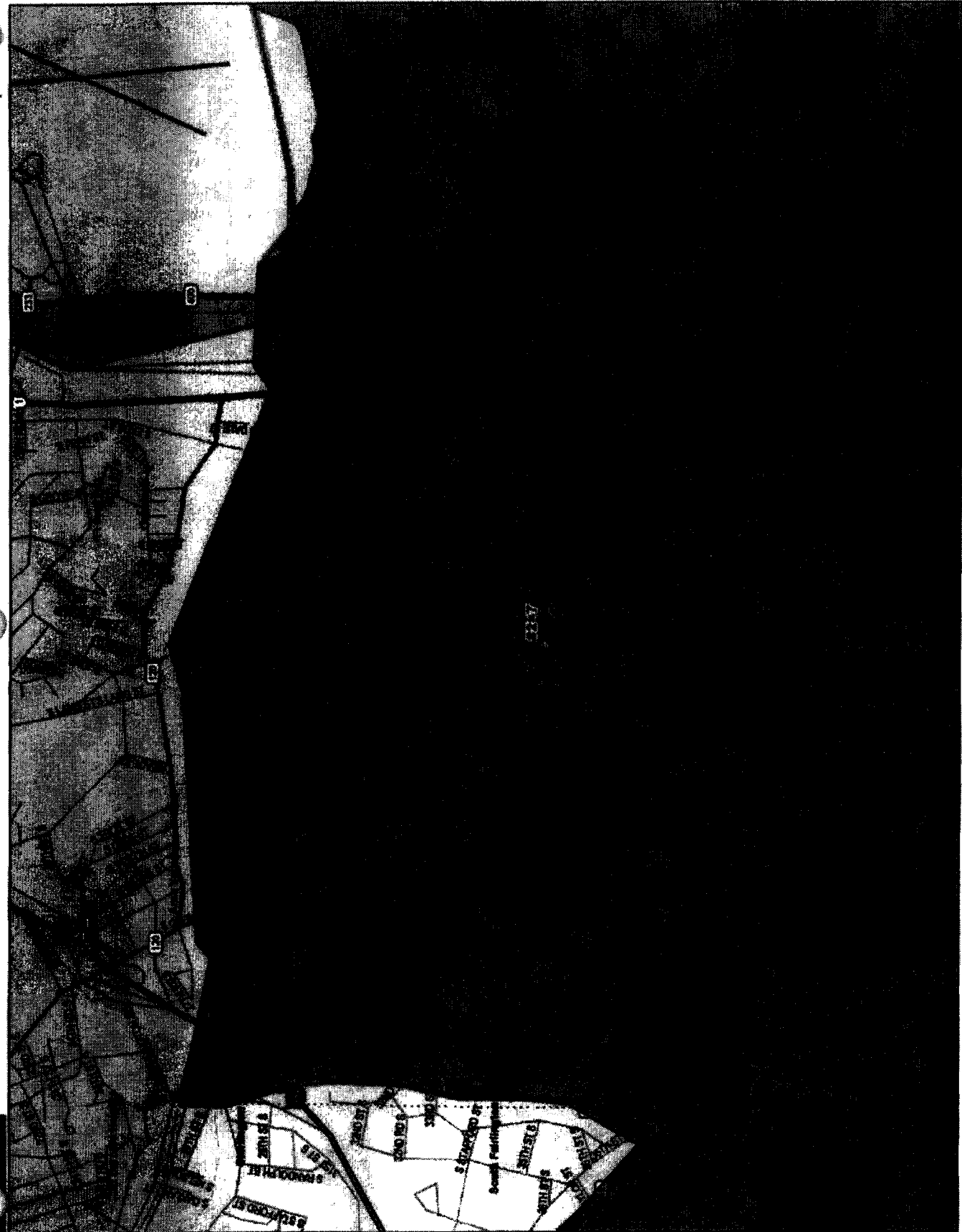
**Map 3** is a break up of maps for closer inspection.

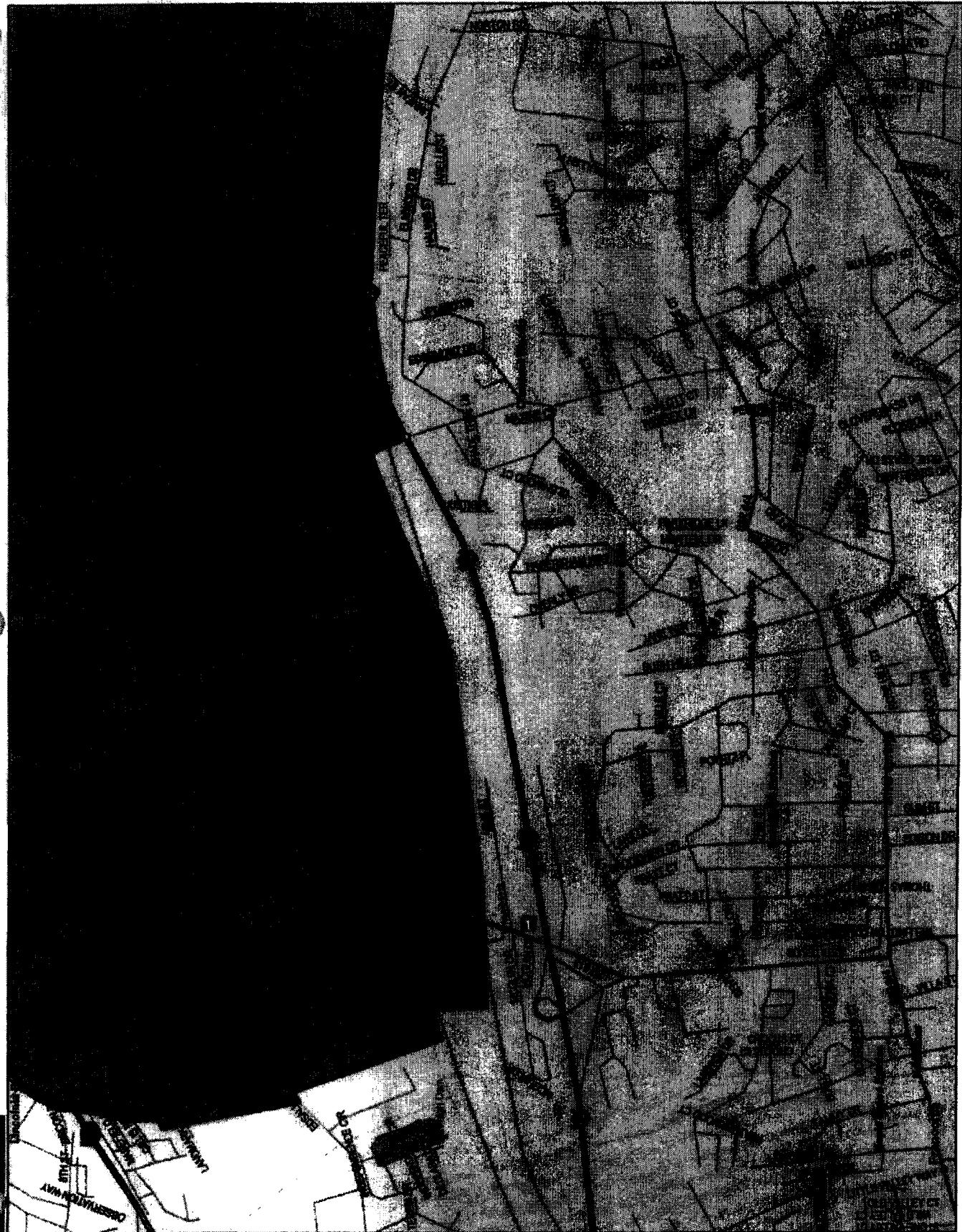














Summary of Service Calls  
Annual Report 2006  
July 1, 2005- June 30,2006

Month/Year	05-Jul	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Avg Subs	
Subscriber number	49,710	49,935	49,333	48,902	49,238	49,373	49,199	49,345	49,272	49,123	49,273	49,326	48,165 481,651	
	# of Calls	# of Calls	# of Calls	# of Calls	# of Calls	# of Calls				# of Calls	# of Calls	# of Calls	# of Calls	Avg %
Type of Problem														
Customer Equipment	60	45	58	49	51	39	60	62	68	73	81	51	682	0.142
Converter Problem	231	269	216	201	277	290	190	263	301	210	277	284	3105	0.645
Tap to TV Set	707	709	784	467	581	506	510	456	429	468	509	436	6780	1.408
Distribution	1	1	0	0	0	0	1	0	0	0	0	0	787	0.163
Fiber	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000
Headend	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000
Other: cxl, disco	117	121	119	149	190	139	115	343	257	132	319	192	2197	0.456
No trouble found/not home	34	107	76	21	48	44	14	33	19	48	64	83	783	0.163
Total Calls	1150	1252	1253	887	1147	1018	890	1157	1074	931	1250	1046	13157	2.732
% of customer base	2.313	2.507	2.540	1.814	2.330	2.062	1.809	2.345	2.180	1.895	2.537	2.121	2.732	

OUTAGE REPORT  
ANNUAL 2006  
JULY 1,2005 - JUNE 30, 2006

**Codes for Cable System Outages**

EQ Comcast Equipment Failure  
 RM Routine Maintenance  
 EPO Electrical Power Outages (Not Virginia Power)  
 EPOVA Electrical Power Outages (Virginia Power)  
 SP Signal Problems at Broadcast Stations  
 CT Corrected Themselves  
 PD Cut Cable/Damage to Plant

**Summary** - July 1, 2005 to June 30, 2006

Code	count	TOTAL down time in minutes	TOTAL number of cust affected	TOTAL cust minutes out
EQ	44	4239	5403	440968
RM	0	0	0	0
EPO	5	263	580	27915
EPOVA	2	230	230	26970
SP	0	0	0	0
CT	5	476	653	31977
PD	116	35907	15827	3082288
	<b>172</b>			
<b>TOTAL</b>		<b>41115</b>	<b>22693</b>	<b>3610118</b>

Code	count	AVERAGE down time in minutes	AVERAGE number of cust affected	AVERAGE cust minutes out
EQ	44	96.341	122.795	10022.000
RM				
EPO	5	52.600	116.000	5583.000
EPOVA	2	115.000	115.000	13485.000
SP	0	0	0	0
CT	5	95.200	130.600	6395.400
PD	116	309.543	136.440	26571.448
	<b>172</b>			
<b>TOTAL - AVERAGE</b>		<b>239.041</b>	<b>131.936</b>	<b>20989.058</b>

Outage Report  
ANNUAL 2006  
July 1,2005 - June 30,2006

	Node	Code	count	down time in minutes	number of cust affected	cust minutes out
06/22/2005	143	EQ	1	20	40	800
06/22/2005	338	EQ	1	193	20	3860
06/22/2005	424	EPOVA	1	95	102	9690
06/22/2005	373	EQ	1	92	58	5336
06/23/2005	434	EQ	1	83	135	11205
06/24/2005	321	EPOVA	1	135	128	17280
06/26/2005	808	EQ	1	304	222	67488
09/19/2005	104	EPO	1	63	133	8379
08/20/2005	21,25,26	EQ	1	88	20	1760
08/23/2005	308	EPO	1	93	162	15066
08/24/2005	308	EQ	1	67	128	8576
08/24/2005	24	EQ	1	26	220	5720
09/02/2005	278	EQ	1	72	286	20592
09/20/2005	285	EQ	1	338	175	59150
09/21/2005	366	EQ	1	55	80	4400
09/21/2005	386	EQ	1	55	80	4400
09/22/2005	400	EQ	1	60	250	15000
09/30/2005	145	CT	1	52	44	2288
10/12/2005	470	EQ	1	41	55	2255
10/19/2005	256	EQ	1	29	60	1740
10/19/2005	83	EQ	1	60	121	7260
10/19/2005	84	EQ	1	60	41	2460
10/19/2005	85	EQ	1	60	151	9060
10/19/2005	88	EQ	1	60	5	300
10/22/2005	101	EPO	1	33	99	3267
10/08/2005	183	EQ	1	78	1400	109200
11/10/2005	99	EQ	1	14	45	630
11/14/2005	146	EQ	1	140	211	29540
10/19/2005	84	EQ	1	60	41	2460
10/19/2005	88	EQ	1	60	5	300
10/19/2005	85	EQ	1	60	151	9060
10/19/2005	83	EQ	1	60	121	7260
10/19/2005	366	EQ	1	29	60	1740
11/23/2005	42	PD	1	191	312	59592
11/27/2005	148	EQ	1	182	49	8918
11/29/2005	487	EQ	1	65	18	1170
12/02/2005	13	CT	1	85	184	15640
12/18/2005	235	PD	1	0	82	0
12/18/2005	117	PD	1	165	38	6270
12/18/2005	116	PD	1	162	58	9396
12/18/2005	353	PD	1	222	42	9324
12/18/2005	413	PD	1	67	46	3082
12/18/2005	420	PD	1	57	28	1596
12/18/2005	419	PD	1	72	30	2160
12/18/2005	369	PD	1	1080	101	109080
12/18/2005	368	PD	1	692	86	59512
12/18/2005	365	PD	1	357	24	8568
12/18/2005	415	PD	1	67	120	8040
12/18/2005	417	PD	1	67	50	3350



Outage Report  
ANNUAL 2006

July 1,2005 - June 30,2006

12/18/2005	416	PD	1	67	94	6298
12/18/2005	366	PD	1	682	88	60016
12/18/2005	364	PD	1	676	70	47320
12/18/2005	367	PD	1	72	62	4464
12/18/2005	355	PD	1	677	84	56868
12/18/2005	346	PD	1	587	98	57526
12/18/2005	351	PD	1	457	78	35646
12/18/2005	349	PD	1	588	86	50568
12/18/2005	414	PD	1	67	66	4422
12/18/2005	350	PD	1	597	48	28656
12/18/2005	122	PD	1	161	28	4508
12/18/2005	293	PD	1	327	78	25506
12/18/2005	290	PD	1	1047	128	134016
12/18/2005	287	PD	1	87	52	4524
12/18/2005	285	PD	1	889	96	85344
12/18/2005	284	PD	1	87	88	7656
12/18/2005	165	PD	1	435	22	9570
12/18/2005	353	PD	1	573	334	191382
12/18/2005	294	PD	1	318	66	20988
12/18/2005	215	PD	1	125	112	14000
12/18/2005	213	PD	1	380	122	46360
12/18/2005	218	PD	1	455	46	20930
12/18/2005	216	PD	1	125	92	11500
12/18/2005	163	PD	1	506	46	23276
12/18/2005	166	PD	1	240	48	11520
12/18/2005	247	PD	1	600	48	28800
12/18/2005	144	PD	1	212	80	16960
12/18/2005	135	PD	1	212	115	24380
12/18/2005	249	PD	1	540	88	47520
12/18/2005	314	PD	1	585	98	57330
12/18/2005	301	PD	1	584	64	37376
12/18/2005	128	PD	1	665	34	22610
12/18/2005	127	PD	1	300	64	19200
12/18/2005	266	PD	1	1230	214	263220
12/18/2005	422	PD	1	457	106	48442
12/18/2005	168	PD	1	26	34	884
12/18/2005	156	PD	1	731	20	14620
12/18/2005	171	PD	1	41	30	1230
12/18/2005	196	PD	1	41	32	1312
12/18/2005	192	PD	1	986	26	25636
12/18/2005	264	PD	1	386	116	44776
12/18/2005	193	PD	1	41	88	3608
12/18/2005	125	PD	1	326	56	18256
12/18/2005	87	PD	1	326	42	13692
12/18/2005	258	PD	1	31	138	4278
12/18/2005	262	PD	1	31	128	3968
12/18/2005	275	PD	1	60	84	5040
12/18/2005	224	PD	1	86	136	11696
12/18/2005	212	PD	1	586	4	2344
12/18/2005	225	PD	1	86	54	4644
12/18/2005	202	PD	1	81	114	9234
12/18/2005	372	PD	1	347	100	34700

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12/18/2005	374	PD	1	372	62	23064
12/18/2005	384	PD	1	387	108	41796
12/18/2005	373	PD	1	373	40	14920
12/18/2005	273	PD	1	30	138	4140
12/18/2005	274	PD	1	30	316	9480
12/18/2005	253	PD	1	416	212	88192
12/18/2005	252	PD	1	401	242	97042
12/18/2005	272	PD	1	392	254	99568
12/18/2005	230	PD	1	86	82	7052
12/18/2005	238	PD	1	86	68	5848
12/18/2005	231	PD	1	86	26	2236
12/18/2005	281	PD	1	60	238	14280
12/18/2005	283	PD	1	60	46	2760
12/18/2005	282	PD	1	60	24	1440
12/18/2005	378	PD	1	97	58	5626
12/18/2005	383	PD	1	97	92	8924
12/18/2005	396	PD	1	96	80	7680
12/18/2005	227	PD	1	266	74	19684
12/18/2005	233	PD	1	86	88	7568
12/18/2005	226	PD	1	86	72	6192
12/18/2005	232	PD	1	86	72	6192
12/18/2005	388	PD	1	96	126	12096
12/18/2005	386	PD	1	117	140	16380
12/18/2005	385	PD	1	837	132	110484
12/18/2005	387	PD	1	96	94	9024
12/18/2005	389	PD	1	462	100	46200
12/18/2005	381	PD	1	427	92	39284
12/18/2005	390	PD	1	465	118	54870
12/18/2005	409	PD	1	377	82	30914
12/18/2005	400	PD	1	97	78	7566
12/18/2005	401	PD	1	126	128	16128
12/18/2005	379	PD	1	97	132	12804
12/18/2005	402	PD	1	126	86	10836
12/18/2005	399	PD	1	97	62	6014
12/18/2005	382	PD	1	97	134	12998
12/18/2005	377	PD	1	1019	42	42798
12/18/2005	146	PD	1	435	211	91785
12/18/2005	323	PD	1	228	100	22800
12/18/2005	294	PD	1	207	60	12420
12/18/2005	290	PD	1	214	112	23968
12/18/2005	127	PD	1	88	100	8800
12/18/2005	168	PD	1	10	36	360
01/07/2006	256	EQ	1	640	24	15360
01/14/2006	508	CT	1	55	247	13585
01/18/2006	21	EQ	1	66	25	1650
01/19/2006	141	EQ	1	121	61	7381
02/28/2006	357	EPO	1	42	24	1008
03/03/2006	15	PD	1	116	18	2088
03/06/2006	367	EQ	1	78	25	1950
03/07/2006	494	EQ	1	92	87	8004
03/14/2006	395	EQ	1	128	5	640
03/16/2006	322	EQ	1	52	56	2912

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03/24/2006	31	EPO	1	32	162	195
03/31/2006	7	EQ	1	29	159	189
04/02/2006	399	EQ	1	28	9	38
04/30/2006	304	PD	1	187	14	202
05/05/2006	486	EQ	1	48	154	203
05/06/2006	218	EQ	1	66	37	104
05/07/2006	185	EQ	1	87	176	264
05/11/2006	143	CT	1	209	34	244
05/12/2006	425	EQ	1	101	165	267
05/14/2006	75	CT	1	75	144	220
05/15/2006	354	PD	1	231	40	272
05/31/2006	307	EQ	1	100	72	173
06/06/2006	425	EQ	1	92	100	193
06/13/2006	161	PD	1	264	147	412
06/13/2006	107	PD	1	264	153	418
06/13/2006	160	PD	1	264	173	438
06/13/2006	105	PD	1	264	142	407
06/16/2006	2	PD	1	1280	4341	5622
06/20/2006	276	PD	1	645	980	1626
<b>Total</b>			<b>172</b>	<b>41,115</b>	<b>22,693</b>	<b>3,610,118</b>
<b>Average</b>				<b>239.041</b>	<b>131.936</b>	<b>20,989.058</b>

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**CT - Outages Corrected Themselves**

	Node	Code	count	minutes	cust affected	out
09/30/2005	145	CT	1	52	44	2288
12/02/2005	13	CT	1	85	184	15640
01/14/2006	508	CT	1	55	247	13585
05/11/2006	143	CT	1	209	34	244
05/14/2006	75	CT	1	75	144	220
Subtotal			<b>5</b>	<b>476</b>	<b>653</b>	<b>31977</b>
Subtotal - Average				<b>95.200</b>	<b>130.600</b>	<b>6395.400</b>

**EQ - Comcast Equipment Failure**

06/22/2005	143	EQ	1	20	40	800
06/22/2005	338	EQ	1	193	20	3860
06/22/2005	373	EQ	1	92	58	5336
06/23/2005	434	EQ	1	83	135	11205
06/26/2005	808	EQ	1	304	222	67488
08/20/2005	21,25,26	EQ	1	88	20	1760
08/24/2005	308	EQ	1	67	128	8576
08/24/2005	24	EQ	1	26	220	5720
09/02/2005	278	EQ	1	72	286	20592
09/20/2005	285	EQ	1	338	175	59150
09/21/2005	366	EQ	1	55	80	4400
09/21/2005	386	EQ	1	55	80	4400
09/22/2005	400	EQ	1	60	250	15000
10/08/2005	183	EQ	1	78	1400	109200
10/12/2005	470	EQ	1	41	55	2255
10/19/2005	256	EQ	1	29	60	1740
10/19/2005	83	EQ	1	60	121	7260
10/19/2005	84	EQ	1	60	41	2460
10/19/2005	85	EQ	1	60	151	9060
10/19/2005	88	EQ	1	60	5	300
10/19/2005	84	EQ	1	60	41	2460
10/19/2005	88	EQ	1	60	5	300
10/19/2005	85	EQ	1	60	151	9060
10/19/2005	83	EQ	1	60	121	7260
10/19/2005	366	EQ	1	29	60	1740
11/10/2005	99	EQ	1	14	45	630
11/14/2005	146	EQ	1	140	211	29540
11/27/2005	148	EQ	1	182	49	8918
11/29/2005	487	EQ	1	65	18	1170
01/07/2006	256	EQ	1	640	24	15360
01/18/2006	21	EQ	1	66	25	1650
01/19/2006	141	EQ	1	121	61	7381
03/06/2006	367	EQ	1	78	25	1950
03/07/2006	494	EQ	1	92	87	8004
03/14/2006	395	EQ	1	128	5	640
03/16/2006	322	EQ	1	52	56	2912
03/31/2006	7	EQ	1	29	159	189
04/02/2006	399	EQ	1	28	9	38

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05/05/2006	486	EQ	1	48	154	203
05/06/2006	218	EQ	1	66	37	104
05/07/2006	185	EQ	1	87	176	264
05/12/2006	425	EQ	1	101	165	267
05/31/2006	307	EQ	1	100	72	173
06/06/2006	425	EQ	1	92	100	193
Subtotal			<b>44</b>	<b>4239</b>	<b>5403</b>	<b>440968</b>
Subtotal - Average				<b>96.341</b>	<b>122.795</b>	<b>10022.000</b>

**EPO - Electrical Power Failure ( Not Virginia Power)**

08/23/2005	308	EPO	1	93	162	15066
10/22/2005	101	EPO	1	33	99	3267
02/28/2006	357	EPO	1	42	24	1008
03/24/2006	31	EPO	1	32	162	195
09/19/2005	104	EPO	1	63	133	8379
Subtotal			<b>5</b>	<b>263</b>	<b>580</b>	<b>27915</b>
Subtotal - Average				<b>52.600</b>	<b>116.000</b>	<b>5583.000</b>

**EPOVA - Dominion Virginia Power Failure**

06/22/2005	424	EPOVA	1	95	102	9690
06/24/2005	321	EPOVA	1	135	128	17280
Subtotal			<b>2</b>	<b>230</b>	<b>230</b>	<b>26970</b>
Subtotal - Average				<b>115.000</b>	<b>115.000</b>	<b>13485.000</b>

**PD - Cut Cable / Damage to Plant**

11/23/2005	42	PD	1	191	312	59592
12/18/2005	235	PD	1	0	82	0
12/18/2005	117	PD	1	165	38	6270
12/18/2005	116	PD	1	162	58	9396
12/18/2005	353	PD	1	222	42	9324
12/18/2005	413	PD	1	67	46	3082
12/18/2005	420	PD	1	57	28	1596
12/18/2005	419	PD	1	72	30	2160
12/18/2005	369	PD	1	1080	101	109080
12/18/2005	368	PD	1	692	86	59512
12/18/2005	365	PD	1	357	24	8568
12/18/2005	415	PD	1	67	120	8040
12/18/2005	417	PD	1	67	50	3350
12/18/2005	416	PD	1	67	94	6298
12/18/2005	366	PD	1	682	88	60016
12/18/2005	364	PD	1	676	70	47320
12/18/2005	367	PD	1	72	62	4464
12/18/2005	355	PD	1	677	84	56868
12/18/2005	346	PD	1	587	98	57526
12/18/2005	351	PD	1	457	78	35646
12/18/2005	349	PD	1	588	86	50568
12/18/2005	414	PD	1	67	66	4422
12/18/2005	350	PD	1	597	48	28656
12/18/2005	122	PD	1	161	28	4508

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12/18/2005	293	PD	1	327	78	25506
12/18/2005	290	PD	1	1047	128	134016
12/18/2005	287	PD	1	87	52	4524
12/18/2005	285	PD	1	889	96	85344
12/18/2005	284	PD	1	87	88	7656
12/18/2005	165	PD	1	435	22	9570
12/18/2005	353	PD	1	573	334	191382
12/18/2005	294	PD	1	318	66	20988
12/18/2005	215	PD	1	125	112	14000
12/18/2005	213	PD	1	380	122	46360
12/18/2005	218	PD	1	455	46	20930
12/18/2005	216	PD	1	125	92	11500
12/18/2005	163	PD	1	506	46	23276
12/18/2005	166	PD	1	240	48	11520
12/18/2005	247	PD	1	600	48	28800
12/18/2005	144	PD	1	212	80	16960
12/18/2005	135	PD	1	212	115	24380
12/18/2005	249	PD	1	540	88	47520
12/18/2005	314	PD	1	585	98	57330
12/18/2005	301	PD	1	584	64	37376
12/18/2005	128	PD	1	665	34	22610
12/18/2005	127	PD	1	300	64	19200
12/18/2005	266	PD	1	1230	214	263220
12/18/2005	422	PD	1	457	106	48442
12/18/2005	168	PD	1	26	34	884
12/18/2005	156	PD	1	731	20	14620
12/18/2005	171	PD	1	41	30	1230
12/18/2005	196	PD	1	41	32	1312
12/18/2005	192	PD	1	986	26	25636
12/18/2005	264	PD	1	386	116	44776
12/18/2005	193	PD	1	41	88	3608
12/18/2005	125	PD	1	326	56	18256
12/18/2005	87	PD	1	326	42	13692
12/18/2005	258	PD	1	31	138	4278
12/18/2005	262	PD	1	31	128	3968
12/18/2005	275	PD	1	60	84	5040
12/18/2005	224	PD	1	86	136	11696
12/18/2005	212	PD	1	586	4	2344
12/18/2005	225	PD	1	86	54	4644
12/18/2005	202	PD	1	81	114	9234
12/18/2005	372	PD	1	347	100	34700
12/18/2005	374	PD	1	372	62	23064
12/18/2005	384	PD	1	387	108	41796
12/18/2005	373	PD	1	373	40	14920
12/18/2005	273	PD	1	30	138	4140
12/18/2005	274	PD	1	30	316	9480
12/18/2005	253	PD	1	416	212	88192
12/18/2005	252	PD	1	401	242	97042
12/18/2005	272	PD	1	392	254	99568
12/18/2005	230	PD	1	86	82	7052
12/18/2005	238	PD	1	86	68	5848
12/18/2005	231	PD	1	86	26	2236

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12/18/2005	281	PD	1	60	238	14280
12/18/2005	283	PD	1	60	46	2760
12/18/2005	282	PD	1	60	24	1440
12/18/2005	378	PD	1	97	58	5626
12/18/2005	383	PD	1	97	92	8924
12/18/2005	396	PD	1	96	80	7680
12/18/2005	227	PD	1	266	74	19684
12/18/2005	233	PD	1	86	88	7568
12/18/2005	226	PD	1	86	72	6192
12/18/2005	232	PD	1	86	72	6192
12/18/2005	388	PD	1	96	126	12096
12/18/2005	386	PD	1	117	140	16380
12/18/2005	385	PD	1	837	132	110484
12/18/2005	387	PD	1	96	94	9024
12/18/2005	389	PD	1	462	100	46200
12/18/2005	381	PD	1	427	92	39284
12/18/2005	390	PD	1	465	118	54870
12/18/2005	409	PD	1	377	82	30914
12/18/2005	400	PD	1	97	78	7566
12/18/2005	401	PD	1	126	128	16128
12/18/2005	379	PD	1	97	132	12804
12/18/2005	402	PD	1	126	86	10836
12/18/2005	399	PD	1	97	62	6014
12/18/2005	382	PD	1	97	134	12998
12/18/2005	377	PD	1	1019	42	42798
12/18/2005	146	PD	1	435	211	91785
12/18/2005	323	PD	1	228	100	22800
12/18/2005	294	PD	1	207	60	12420
12/18/2005	290	PD	1	214	112	23968
12/18/2005	127	PD	1	88	100	8800
12/18/2005	168	PD	1	10	36	360
03/03/2006	15	PD	1	116	18	2088
04/30/2006	304	PD	1	187	14	202
05/15/2006	354	PD	1	231	40	272
06/13/2006	161	PD	1	264	147	412
06/13/2006	107	PD	1	264	153	418
06/13/2006	160	PD	1	264	173	438
06/13/2006	105	PD	1	264	142	407
06/16/2006	2	PD	1	1280	4341	5622
06/20/2006	276	PD	1	645	980	1626

Subtotal	<b>116</b>	<b>35907</b>	<b>15827</b>	<b>3082288</b>
Subtotal - Average		<b>309.543</b>	<b>136.440</b>	<b>26571.448</b>

**RM - Routine/ Planned Maintenance**

	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
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Subtotal	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Subtotal - Average		<b>0.000</b>	<b>0.000</b>	<b>0.000</b>

<b>TOTALS</b>	<b>172</b>	<b>41,115.00</b>	<b>22,693.00</b>	<b>3,610,118.00</b>
<b>TOTAL AVERAGE</b>		<b>239.041</b>	<b>131.936</b>	<b>20,989.058</b>



## **2006 ANNUAL REPORT**

### **CUSTOMER SERVICE TELEPHONE ACTIVITY**

**AUGUST 30, 2006**



# Customer Service Phone Activity

July 1, 2005 – June 30, 2006

## July 2005

Total calls received - 40,398  
Total calls answered – 37,291  
Percentage answered – 92.3%  
Total % of calls answered w/ in 30 sec – 73.70%  
Average call handling time in seconds - 375

## August 2005

Total calls received - 48,511  
Total calls answered – 44,340  
Percentage answered – 91.4 %  
Total % of calls answered w/ in 30 sec – 75.55 %  
Average call handling time in seconds - 314

## September 2005

Total calls received - 42,879  
Total calls answered – 38,245  
Percentage answered – 89.2%  
Total % of calls answered w/ in 30 sec – 74.68%  
Average call handling time in seconds - 308

## October 2005

Total calls received - 36,316  
Total calls answered - 34,799  
Percentage answered – 95.8%  
Total % of calls answered w/ in 30 sec – 81.55%  
Average call handling time in seconds - 276

## November 2005

Total calls received - 38,326  
Total calls answered - 36,496  
Percentage answered - 95.2 %  
Total % of calls answered w/ in 30 sec – 82.45 %  
Average call handling time in seconds - 278

## December 2005

Total calls received - 38,925  
Total calls answered - 36,104  
Percentage answered - 92.8%  
Total % of calls answered w/ in 30 sec - 76.99%  
Average call handling time in seconds - 260

## January 2006

Total calls received - 42,941  
Total calls answered - 35,935

Percentage answered – 83.68%  
Total % of calls answered w/ in 30 sec – 82.27%  
Average call handling time in seconds - 288

**February 2006**

Total calls received - 36,909  
Total calls answered - 34,653  
Percentage answered – 93.89 %  
Total % of calls answered w/ in 30 sec – 80.45 %  
Average call handling time in seconds - 304

**March 2006**

Total calls received - 37,728  
Total calls answered - 35,711  
Percentage answered – 94.65%  
Total % of calls answered w/ in 30 sec - 74.76%  
Average call handling time in seconds - 304

**April 2006**

Total calls received - 35,281  
Total calls answered - 32,394  
Percentage answered – 91.82%  
Total % of calls answered w/ in 30 sec – 74.45%  
Average call handling time in seconds - 316

**May 2006**

Total calls received - 40,049  
Total calls answered – 36,459  
Percentage answered – 91.04 %  
Total % of calls answered w/ in 30 sec – 70.26 %  
Average call handling time in seconds - 313

**June 2006**

Total calls received - 49,598  
Total calls answered – 44,191  
Percentage answered – 89.10%  
Total % of calls answered w/ in 30 sec - 65.07%  
Average call handling time in seconds - 323

**July 2005**

Total calls received - 40,398  
Total calls answered – 37,291  
Percentage met – 92.3%  
Total % of calls answered w/ in 30 sec – 73.70%  
Average call handling in seconds – 375