

METROCAST CABLEVISION OF NEW HAMPSHIRE, LLC

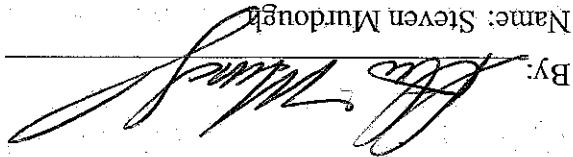
OFFICER'S CERTIFICATE

The undersigned, Steven Murdough, as Vice President and General Manager of MetroCast Cablevision of New Hampshire, LLC ("MetroCast"), in connection with Section 15.6 of the Cable Television Franchise Renewal Agreement between MetroCast and the Town of Bristol, New Hampshire dated 7/27/05 (the "Franchise") hereby certifies as follows:

1. MetroCast is duly organized, validly existing and in good standing under the laws of the State of New Hampshire. A copy of the Good Standing Certificate received from the New Hampshire Division of Corporations is attached hereto as Exhibit A.
2. MetroCast has the requisite power and authority under applicable law and its by-laws, articles of incorporation and/or other organizational documents, is authorized by its Board of Directors, and has secured all consents required to be obtained as of the Effective Date of the Franchise (as defined therein) and to take all acts necessary to perform all of its obligations pursuant to the Franchise.
3. To my knowledge, as of the date of this Certificate, there is no action or investigation pending or threatened against MetroCast which would interfere with the performance of its obligations under the Franchise.

IN WITNESS WHEREOF, the undersigned has executed this Certificate as of the 27th day of July 2005.

METROCAST CABLEVISION OF NEW HAMPSHIRE, LLC

By: 

Name: Steven Murdough
Title: Vice President and General Manager

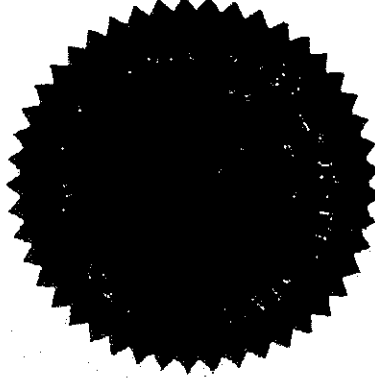
GOOD STANDING CERTIFICATE
NEW HAMPSHIRE

EXHIBIT A

State of New Hampshire
Department of State

CERTIFICATE OF AUTHORIZATION

I, William M. Gardner, Secretary of State of the State of New Hampshire, do hereby certify that a certificate of authority to do business in this state was issued to METROCAST CABLEVISION OF NEW HAMPSHIRE, LLC, a(n) DELAWARE limited liability company, on MAY 15, 1998. I further certify that all fees and annual reports required by the Secretary of State's office have been received.



In TESTIMONY WHEREOF, I hereto
set my hand and cause to be affixed
the Seal of the State of New Hampshire,
this 22ND day of JUNE, A.D. 2005

William M. Gardner
Secretary of State

MetroCast Cablevision of New Hampshire, L.L.C.

AND

Bristol, New Hampshire

BETWEEN

**CABLE TELEVISION FRANCHISE RENEWAL
AGREEMENT**

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Access: The right or ability of any Bristol resident and/or any Persons affiliated with the Town or a Town-designated institution to use for non-commercial purposes designated facilities, equipment and/or Channels of the Cable Television System, subject to the conditions and procedures established by the Town or pursuant to applicable laws for such use.

(ii) the completion of any action described in Section 2.8 hereof without the prior written consent of Franchise Authority, provided that a change of Control, which is not initiated or participated in by the Franchisee or any Affiliated Person or, if applicable, is opposed actively and publicly by the Franchisee and all applicable Affiliated Persons shall not be considered Abandonment.

(i) the cessation by act or failure to act of the Franchisee or any Affiliated Person, of the provisions of all, or substantially all, of the Services being provided over the Cable System to Subscribers or the Town for twenty-four (24) or more consecutive hours, except if due to a Force Majeure.

1. Abandonment:

For the purpose of this Franchise Renewal, the following words, terms, phrases, and their derivations shall have the meanings given herein, unless the context clearly requires a different meaning. When not consistent with the context, the masculine pronoun includes the feminine pronoun, words used in the present tense include the future tense, words in the plural number include the singular number, and words in the singular number include the plural number. The word "shall" is always mandatory and not merely directory.

Section 1.1 - DEFINITIONS:

DEFINITIONS

ARTICLE I

NOW, THEREFORE, in consideration of the mutual covenants herein contained and intending to be legally bound, the parties agree as follows:

WHEREAS, the Franchise Authority of Bristol, New Hampshire is authorized to grant one or more nonexclusive, revocable cable television Franchise Renewals to construct, operate and maintain a Cable Television System within Bristol, New Hampshire;

WITNESSETH:

This Cable Television Franchise Renewal Agreement entered into this the Twenty-Ninth day of July 2005, by and between the Town of Bristol, New Hampshire (also referred to as the "Franchise Authority" or "the Town") as Franchise Authority for the renewal of the cable television franchise and MetroCast Cablevision of New Hampshire, L.L.C. ("MetroCast"), a limited liability company.

in

11. Cable Television System or Cable System: A facility, consisting of a set of closed transmission paths and associated Signal generation, reception, and control equipment that is designed to provide Cable Service, which includes Video Programming and which is provided to multiple Subscribers within the Town, but such term does not include (a) a facility that serves only to retransmit the television Signals of one or more television broadcast stations; (b) a facility that serves Subscribers without using any public right-of-way; (c) a facility of a common carrier that is subject

non-exclusive Cable Television Franchise granted to the Franchisee by this instrument.

10. Cable Television Franchise Renewal Agreement (Franchise Renewal): The

9. Cable Service: The one-way transmission to Subscribers of Video Programming or Other Programming Service, together with Subscriber interaction, if any, which is required for the selection or use of such Video Programming or Other Programming Service.

of Selection.

8. Cable Advisory Board of Bristol: A Person or group designated by the Board

7. Cable Act: Public Law No. 98-549, 98 Stat. 2779 (1984) (the Cable Communications Policy Act of 1984), as amended by Public Law No. 102-385, 106 Stat. 1460 (1992) (the Cable Television Consumer Protection and Competition Act of 1992, as further amended by Public Law No. 104A58, 110 Stat. 56 (1996) (the Telecommunications Act of 1996) and any future amendments.

6. Basic Service: Unless otherwise defined by the Cable Act or other laws, any Service tier which includes the retransmission of local television broadcast Signals, all Signals of domestic television broadcast stations provided to any Subscriber (except a Signal secondarily transmitted by satellite carrier beyond the local service area of such station, regardless of how such Signal is ultimately received by the Cable System), any public, educational, and governmental access programming required to be carried on the Basic Service Tier, and any additional Video Programming Signals and Services added to the basic tier by Franchisee.

5. Affiliate or Affiliated Person: Each Person who falls into one or more of the following categories (i) each Person having, directly or indirectly, a Controlling Interest in the Franchisee; (ii) each Person in which the Franchisee has, directly or indirectly, a Controlling Interest; (iii) each Person directly or indirectly, controlled by, or under common Control with the Franchisee; provided that "Affiliated Person" shall in no event mean the Town or any party to a contract with the Franchisee, any limited partner or any creditor of the Franchisee solely by virtue of its status as a creditor and which is not otherwise an Affiliated Person by reason of owning a Controlling Interest in, being owned by or being under common ownership, management, or common control with the Franchisee.

4. Addressable Technology: The capability of a Cable System to electronically add, change or delete certain programming or Service(s) from a remote location.

3. Access Channel: A video Channel which the Franchisee shall make available for non-commercial purposes to the Town of Bristol, and/or Bristol educational institutions, without charge to the User, for the purpose of transmitting programming by members of the public, Town departments and divisions, schools, education, institutional and similar organizations.

whole or in part, to the provisions of title 2 of the Communications Act of 1934, as it may be amended, except such facility shall be considered a Cable System (other than for purposes of Section 621 (c) of said Communications Act of 1934, as it may be amended) to the extent such facility is used in the transmission of Cable Service directly to Subscribers; or (d) any facilities of any electric utility used solely for operating its electric utility systems.

12. Channel: A band of frequencies in the electromagnetic spectrum or any other means of transmission (including, without limitation, optical fibers or any other means now available or that may become available), which is capable of carrying video Signal, or an audio Signal.

13. Commercial Subscriber: A commercial, non-residential Subscriber to Cable Service.

14. Communications Act: The Communications Act of 1934, as amended by the Telecommunication Act of 1996.

15. Complaint: Any verbal or written inquiry, allegation or assertion made by a Person, which requires subsequent corrective action to the Cable System or any portion thereof, or any subsequent investigation, research and, or a Service call to be undertaken by the Franchisee.

16. Control: The legal or practical ability to exert actual working Control in whatever manner exercised, over the affairs and/or the day-to-day operations of a Franchisee, either directly or indirectly, whether by contractual agreement, majority ownership interest, or any lesser ownership interest, equity or non-equity, or in any other manner, whether by a Parent at any level or by any other entity.

17. Controlling Interest: Actual working Control in whatever manner exercised, including, without limitation, working Control through ownership, management, debt instruments, or negative Control, as the case may be, of the system, the franchise or the Franchisee. A rebuttable presumption of the existence of Control or a Controlling Interest shall arise from the beneficial ownership, directly or indirectly, by any Person or group of persons acting in concert (other than underwriters during the period in which they are offering securities to the public) of fifty percent (50%) or more of any Person (which Person or group of persons is hereinafter referred to as "controlling person"). "Control" or "Controlling Interest" as used herein may be held simultaneously by more than one Person or group of persons.

18. Converter: Any device changing the frequency or modulation of a Signal. A Subscriber Converter may expand reception capacity and/or unscramble coded Signals distributed over the Cable System.

19. Cost(s): A price designed to recover actual Costs (i.e. labor, material, etc.), including a reasonable rate of return as defined by the FCC Cost of Service Order, MM. Docket No. 98-275, Para. 207 (released March 30, 1994) or as such term is amended by the FCC from time to time.

20. Days: Calendar Days unless otherwise specified.

(c) the revenue derived by the Franchisee from activities or businesses for which a Franchise is not required;

(b) the revenue of any Affiliate;

(a) any tax, levy, assessment or other fee imposed on the Franchisee which is imposed directly or indirectly on any Subscriber by any governmental unit or governmental agency, and which is collected by Franchisee on behalf of such governmental unit or governmental agency;

29. Gross Annual Revenues: Revenue collected by the Franchisee deriving from the operation of the Cable System for the provision of Cable Service, including the carriage of Signals over the Cable Television System including, without limitation: the distribution of any Service or Service Related Activity over the System; Basic Service monthly fees and all other Service fees; all Commercial Subscriber revenues; fees paid for Channels designated for commercial use; Converter, remote control and other equipment rentals and/or leases or sales; studio and other facility and/or equipment rentals, and/or leases and/or sales; revenues from the operation of studio or other Cable Service facilities, equipment or billing; and advertising revenues. Excluded are the following:

28. Franchise Authority: The Board of Selectmen of Bristol, New Hampshire.

27. Franchisee: MetroCast Cablevision of New Hampshire, L.L.C. or any successor or transferee in accordance with the terms and conditions in this Franchise Renewal.

26. Franchise Renewal: The non-exclusive Cable Television Franchise Renewal Agreement granted to the Franchisee by this instrument.

25. Franchise Fee: The payments to be made by the Franchisee to the Town of Bristol, which shall have the meaning as set forth in Section 622 of the Communications Act of 1934, as amended by the Telecommunications Act of 1996, and applicable FCC regulations.

24. Force Majeure: The term "Force Majeure" as used herein shall mean the following: any cause beyond the reasonable Control of the Franchisee including, but not limited to, acts of God; acts of public enemies; orders of any kind of the government of the United States of America or of the State of New Hampshire or any of their departments, agencies, political subdivisions, or officials, or any civil or military authority; insurrections; riots; epidemics; landslides; lightning; earthquakes; fires; hurricanes; volcanic activity; storms; floods; washouts; droughts; civil disturbances; explosions; strikes; and unavailability of essential equipment and/or materials beyond the control of the Franchisee.

23. FCC: The Federal Communications Commission, or any successor agency.

22. Effective Date of the Franchise Renewal (the "Effective Date"): the date that this Renewed Franchise has been executed by both parties hereto.

21. Drop or Cable Drop: The coaxial or fiber cable that connects each home or building to the feeder line of the Cable System.

39. PEG: The acronym for "public, educational, and governmental", used in conjunction with Access Channels, support and facilities.

38. Pay Cable or Premium Services: Programming delivered for a fee or charge to Subscribers on a per-Channel basis.

37. Parent: Any entity that directly or indirectly, whether immediately or through any number of intermediaries, owns or Controls the Franchisee or any successor in interest to any such entity.

36. Outlet: An interior receptacle, generally mounted in a wall that connects a Subscriber's or User's equipment to the Cable System.

35. Other Programming Service: Information that the Franchisee makes available over the Cable System to all Subscribers generally.

34. Normal Business Hours: Those hours during which most similar businesses in the community are open to serve customers. In all cases, "Normal Business Hours" must include some evening hours at least one night per week and/or some weekend hours.

33. NTSC: The acronym for National Television Systems Committee.

32. Liability or Liabilities: Any and all encumbrances, defects of title, easements, mortgages, security interest or agreements, pledges, liens, charges, damages, expenses, penalties, fines, costs, conditional sales agreements, title retention agreements, claims, assessments, restrictions, Liabilities, obligations, debts, commitments, undertakings, taxes, covenants and responsibilities of every kind and character, known and unknown, contingent or otherwise, or existing by operation of law, by judicial decrees of judgment, by contract or otherwise, including, without limitation, those evidenced by contracts, agreements, memoranda, indentures, mortgages and security agreements and conditional sales and other title retention agreements. "Liability or Liabilities" shall also mean any damage or loss to any real or personal property of, or any injury or death of, any Person or the Town.

31. Installation: The connection of the Cable System from feeder cable to the point of interconnection with Subscriber-owned facilities.

30. Headend: The electronic control center of the Cable System containing equipment that receives, amplifies, filters and converts incoming Signals for distribution over the Cable System.

(e) the revenue derived by the Franchisee or any Affiliate from the provision of Internet services.

(d) the revenue of the Franchisee or any Affiliate from the operation of a facility of a common carrier which is subject, in whole or in part, to the provisions of Title 11 of the Communications Act of 1934.

40. PBG Access Channels: Any Channel(s) made available for the presentation of PBG Access Programming.
41. Person: Any corporation, partnership, limited partnership, association, trust, organization, other business entity, individual or group of individuals acting in concert.
42. Public Way or Street: The surface of, as well as the spaces above and below any and all public streets, avenues, highways, boulevards, concourses, driveways, public grounds or waters and all other publicly owned real property within or belonging to the Town now or hereafter existing. Reference herein to "Public Way" or "Street" shall not be construed to be a representation or guarantee by the Town that its property rights are sufficient to permit its use for any purpose, or that the Franchisee shall gain or be permitted to exercise any rights to use property in the Town greater than those already possessed by the Town.
43. Reasonable Notice or Notice: Shall be a written Notice received by the Franchisee, at its principal office within the Town or such other office as the Franchisee has designated to the Town as the address to which Notice shall be transmitted to it, which Notice shall be certified and post marked not less than thirty (30) Days prior to that date in which the party giving such Notice shall commence any action which requires the giving of Notice, except as otherwise provided herein. In computing the thirty-day period, holidays recognized by the Town shall be excluded.
44. Franchise Renewal: The non-exclusive Cable Television Franchise granted to the Franchisee by this instrument.
45. Residential Subscriber: A resident who lawfully receives any Service on the Subscriber Network, except to the extent that said Services are used by said Subscriber in connection with a trade, business, or profession, either directly or indirectly.
46. Scrambling: The electronic rearrangement of a Signal(s) in order to render it unintelligible or unviewable without the use of a Converter or other decoding device.
47. Service: Any Basic Service, any Pay Cable Service, or any other Service, whether or not originated by the Franchisee, which is offered to any Subscriber in conjunction with, or which is distributed over the Cable System.
48. Service Interruption: The full or partial loss of picture or sound on one or more cable Channels.
49. Service Related Activity: Any activity or function associated with the production or distribution of any Service over the Cable System, including, without limitation, use of studio or other facilities or equipment, billing, audience promotion, or installation or lease of equipment.
50. Signal: Any transmission of radio frequency energy or of optical information.
51. State: The State of New Hampshire.
52. Subscriber: Any Person, which elects to subscribe to, for any purpose, a Service provided by the Franchisee by means of, or in connection with, the Cable Television System.

53. Subscriber Network: The network to be owned and operated by the Franchisee, over which Signals can be transmitted to Subscribers.

54. Town: Town of Bristol

55. Transfer: Any transaction in which there is any change, acquisition or Transfer of Control of: the Franchise, the Franchisee's Cable Television System or the rights and/or obligations held by the Franchisee.

56. Trunk and Distribution System: That portion of the Cable System for the delivery of Signals, but not including Cable Drop(s) to Subscriber's residences.

57. Two-Way: A system design feature whereby the Headend, trunk cables, distribution plant, amplifiers and other technical components of the Cable System have the requisite equipment to pass video, audio, voice and/or data Signals in both directions simultaneously.

58. Upstream Channel: A Channel over which Signals travel from an authorized location, such as a Subscriber's residence, to the Cable System Headend.

59. User: A Person utilizing the Cable Television System, including all related facilities for purposes of production and/or transmission of Signals, as opposed to utilization solely as a Subscriber.

60. VCR: The acronym for video cassette recorder.

61. Video Programming: Programming provided by, or generally considered comparable to programming provided by, a television broadcast station.

ARTICLE 2

GRANT OF FRANCHISE RENEWAL

Section 2.1 - GRANT OF FRANCHISE RENEWAL

Subject to the terms and conditions set forth herein, the Board of Selectmen of the Town of Bristol, New Hampshire, as the Franchise Authority of the Town, hereby grants a non-exclusive, revocable cable television Franchise Renewal to the Franchisee authorizing the Franchisee to operate and maintain a Cable Television System within the corporate limits of the Town of Bristol.

This Franchise Renewal is subject to the regulations of the FCC; the Communications Act of 1934 as amended by the Telecommunications Act of 1996; the Cable Act; and State and federal statutes.

Subject to the terms and conditions herein, the Franchise Authority hereby grants to the Franchisee the right to operate and maintain the Cable Television System in, under, over, along, across, or upon the Public Ways for the purpose of reception, transmission, collection, amplification,

origin, distribution and/or redistribution of Signals in accordance with the laws of the United States of America, the State of New Hampshire and the Town of Bristol. In exercising rights pursuant to this Franchise Renewal, the Franchisee shall not endanger the lives of Persons, or unreasonably interfere with any Installations of the Town, any public utility serving the Town or any other Persons permitted to use the Public Ways.

Grant of this Franchise Renewal does not establish priority for use over other present or future permit holders or the Town's own use of Public Ways. Disputes between the Franchisee and other parties regarding use of Public Ways shall be resolved in accordance with any applicable regulations or procedures and ordinances of the Town of Bristol.

Section 2.2 - TERM OF FRANCHISE RENEWAL

The term of this Franchise Renewal shall commence on the Effective Date and shall end twenty (20) years after Effective Date. The Franchisee shall give Notice to the Board of Selectmen of Franchisee's intent to seek renewal of this Franchise Renewal Agreement no more than thirty-six (36) months and no less than thirty (30) months prior to the expiration of this Franchise Renewal term. The Town may conduct a renewal proceeding, pursuant to the procedures set forth in 47 U.S.C. § 546 of Section 626 of the Communications Act. This paragraph does not vest in Franchisee a right of renewal. The Board of Selectmen may invite proposals from other applicants and the decision regarding renewal shall be solely at the discretion of the Board of Selectmen. During the term of this renewal, the terms of this Franchise Renewal shall continue in force unless modified in writing by mutual agreement of the parties.

Section 2.3 - RIGHT OF TOWN TO ISSUE FRANCHISE

Franchisee acknowledges and accepts the legal right of the Franchise Authority to issue this Cable Television Franchise Renewal Agreement.

Section 2.4 - NON-EXCLUSIVITY OF FRANCHISE RENEWAL

Subject to Section 2.3 above, this Franchise Renewal shall not affect the right of the Franchise Authority to grant to any other Person a license or right to occupy or use Public Ways and Streets, or portions thereof, for the construction, installation, operation, or maintenance of a Cable Television System within the Town of Bristol; or the right of the Franchise Authority to permit the use of the Public Ways of the Town for any purpose whatsoever. The Franchisee hereby acknowledges the Franchise Authority's right to make such grants and permit such uses. If the Franchise Authority grants another franchise to operate a Cable Television System in the Town, such franchise shall be on terms no more favorable or less burdensome than the terms hereof.

Section 2.5 - POLICE AND REGULATORY POWERS

By executing this Franchise Renewal, the Franchisee acknowledges that its rights are subject to the powers of the Town to adopt and enforce general ordinances necessary to the safety and welfare of the public. The Franchisee shall comply with all generally applicable Department of Public Works regulations and any ordinances of general applicability enacted by the Town. Any conflict between the terms of this Franchise Renewal and any present or future lawful exercise of the Town's police and regulatory powers shall be resolved in favor of the latter.

Section 2.6 - CABLE ADVISORY COMMITTEE

The Board of Selectmen shall designate or appoint a Person or group of persons (which may consist of or include themselves or a subcommittee thereof) to serve as the Cable Advisory Board of Bristol; and may delegate to such Cable Advisory Board as much or as little as the Selectmen see fit of the responsibility of exercising the Board of Selectmen's rights under this Franchise Renewal, exclusive of renewal and revocation hearings, which must be heard and decided by the Board of Selectmen. The Selectmen may from time to time, at their discretion, alter the number or charge of the Cable Advisory Board. Unresolved disputes regarding the Cable System may be brought to the Cable Advisory Board by local people, defined as those who reside, work, own property or do business with the Town, whether they are Users of the Cable System, prospective Users, or non-Users, and the Cable Advisory Board shall mediate. The Cable Advisory Board may conduct a total system review on a periodic basis, not less frequently than every three to five years from the Effective Date.

Section 2.7 - REMOVAL OR ABANDONMENT

Upon termination of this Franchise Renewal by passage of time or otherwise, and unless (i) the Franchisee renews its franchise for another renewal term or (ii) the Franchisee completes a Transfer of the Cable Television System to a transferee approved by the Franchise Authority, the Franchisee shall remove all of its supporting structures, poles, transmission and distribution systems, and all of its appurtenances from the Public Ways and shall restore all areas to as good a condition as before entry.

Section 2.8 - TRANSFER OF THE FRANCHISE RENEWAL

This Franchise Renewal may not be sold or otherwise assigned or transferred without the written consent of the Board of Selectmen, which may not unreasonably withhold its consent. Advance Notice of intent to Transfer must be given to the Board of Selectmen at least one-hundred and twenty (120) Days before the proposed consummation date of the Transfer, and Franchisee shall provide acceptable evidence that the proposed new operator is qualified together with such other information as is properly requested by the Board of Selectmen regarding the transferee's legal, financial and technical qualifications.

Upon Transfer, the new operator shall be bound fully by all provisions of this Franchise Renewal, excepting only that which may be mutually agreed upon in writing between the Board of Selectmen and the new operator; and the Board of Selectmen having not exercised any provision thereof prior to the Transfer shall be no bar to its exercise thereafter. The limitations and restrictions in this Section 2.8 shall not prohibit the provision of security interests in MetroCast or the Cable System for the purpose of securing financing.

Section 2.9 - CONDITIONS ON FRANCHISE-PUBLIC WORKS IMPROVEMENTS

Nothing in this Agreement shall abrogate the right of the Town to perform any public works or other public improvements of any description, including, without limitation, all work authorized by the Public Works Department, the Cable Advisory Board, and applicable State and local law. In the event that the Cable System interferes with the construction, operation, maintenance or repair of such public works or public improvements, the Franchisee shall, at its own Cost and expense, protect or properly alter or relocate the Cable System or any part thereof, as directed by the Town. In the event that the Franchisee refuses or neglects, after Reasonable Notice, to so protect, alter or relocate all or party of the Cable System, the Town shall have the right to break through, remove, alter or relocate all or all or any part of the Cable System without any Liability to the Franchisee and the Franchisee shall pay to the Town the Costs incurred in connection with such breaking through, removal, alteration or relocation.

ARTICLE 3

CABLE SYSTEM DESIGN

Section 3.1 - SUBSCRIBER NETWORK

(a) The Franchisee shall continue to operate and maintain the Subscriber Network at all times, in accordance with the FCC's Technical Standards codified at Title 47 Part 76 Multichannel Video and Cable Television Service, Subpart K – Technical Standards or amendments thereto, included herein as Exhibit A.

(b) Any Cable System construction in the Town shall be subject to the Town's public inspection and oversight in accordance with the Town's policies and ordinances generally applicable to works in the Public Ways. Upon request of the Board of Selectmen subject to confidential treatment, the Franchisee shall submit to the Board of Selectmen i) a construction plan including construction progress schedules; ii) area construction maps; and iii) projected dates for offering Cable Service(s).

(c) The Franchisee shall maintain a Two-Way residential Cable System utilizing Addressable Technology, and cable and electronics capable of transmitting a bandwidth of 860 MHz, providing a minimum of 75 Channels in the downstream direction and 4 Channels in the upstream direction.

Section 3.2 - EQUIPMENT

Franchisee shall use equipment for the Cable System, which shall be of good and durable quality, and Franchisee shall service and repair such equipment on a regular basis.

Section 3.3 - EMERGENCY ALERT

The Cable System will comply with FCC EAS standards as set forth in Part 11 of the FCC rules and the State of New Hampshire Emergency Alert Operation Plan.

Section 3.4 - TECHNICAL STANDARDS

The Cable System shall be installed and operated in conformance with this Franchise Renewal and FCC rules and regulations as defined in Section 3.1 (a).

Section 3.5 - TESTS AND PERFORMANCE MONITORING

Franchisee shall perform all Cable System tests and maintenance procedures as required by the FCC (Exhibit A). Copies of any test results shall be provided to the Town upon request.

Section 3.6 - MAINTENANCE LOG

Franchisee shall maintain an annual log showing the date, approximate time and duration, type and probably cause of all Cable System outages, whole or partial, due to causes other than routine testing or maintenance. The entries in such log shall be retained by Franchisee for a three-year period and shall be provided to the Town upon request.

Section 3.7 - NOTICE OF SHUTDOWN

Except in an emergency, Franchisee shall give Notice on a cable Channel at least twelve (12) hours before any planned shutdown for maintenance or major equipment change-outs, which will result in loss of Service for two (2) hours or more to a neighborhood fiber node or larger area.

Section 3.8 - EMPLOYEE IDENTIFICATION

Franchisee shall provide a standard identification document to all employees, including employees of subcontractors, who will be in contact with the public. Such documents shall include a telephone number that can be used to verify identification. In addition, Franchisee shall clearly identify all field personnel, vehicles and other major equipment operating under the authority of Franchisee.

ARTICLE 4

INSTALLATION AND MAINTENANCE STANDARDS

Section 4.1 - LINE EXTENSIONS

(a) Present Service Area: The areas of Bristol highlighted in *blue* on the map attached as Exhibit B shall be connected within one year of the Effective Date of the Franchise Renewal execution. If Franchisee is unable to complete the extension due to Force Majeure, performance of make ready or availability of construction crews and equipment, MetroCast shall provide written Notice and explanation to the Town on a monthly basis until such extension is completed. To the extent that Franchisee has not previously done so, Franchisee shall submit a pole permit application within thirty (30) Days of the execution of this Franchise Renewal. Subject to Exhibit B, Cable Service shall be provided to every existing dwelling unit requesting Cable Service and located on Public Way or Street and those private roads, as marked on Exhibit B, provided Franchisee is able to obtain from property owners any necessary easements at no Cost and/or any applicable permits. During the term of this Franchise Renewal Agreement, Franchisee shall provide for the construction of all necessary line extensions required for Cable Service to new dwelling units requesting Service built on any Public Way or Street.

Franchisee and its subcontractors shall construct, rebuild, install, operate and maintain its Cable System in a manner consistent with all laws, construction standards and codes, safety regulations, governmental requirements and FCC technical standards.

Section 5.2 - COMPLIANCE WITH CONSTRUCTION AND TECHNICAL STANDARDS

The Town or its designee shall have the right to inspect at any time all construction or installation work performed subject to the provisions of this Franchise Renewal and to make such tests as it shall deem necessary to ensure compliance with the terms of this Franchise Renewal and all other applicable law. Franchisee shall cooperate fully with the Town during all inspections and tests and shall provide access to all equipment, records, and other materials and information necessary for such inspections and tests. Except as otherwise provided by this Franchise Renewal, the Cost of copying any documents provided in connection with an inspection shall be borne by the Franchisee.

Section 5.1 - RIGHT TO INSPECTION OF CONSTRUCTION

CONSTRUCTION AND MAINTENANCE

ARTICLE 5

The Franchisee shall construct, install, operate and maintain the Cable Television System within the Town of Bristol. Poles, towers and other obstructions shall be erected so as not to interfere with vehicular or pedestrian traffic over Public Ways. The erection and location of all poles, towers and other obstructions shall be in accordance with all applicable State and local laws and regulations and this Franchise Renewal.

Section 4.3 - LOCATION OF CABLE TELEVISION SYSTEM

The Franchisee shall extend Cable Service to commercial areas that are within one hundred and twenty-five feet (125') of the existing Cable System. The commercial property/customer may be required to pay the Cost of connecting the Cable System to locations more than one hundred and twenty-five feet (125') from the existing Cable System in addition to the Cost of internally wiring a facility to receive Cable Service.

Section 4.2 - COMMERCIAL SERVICES

(b) A standard Installation charge shall be established by the Franchisee, which shall apply to any Drop of not more than two hundred feet (200'). If a Drop of more than two hundred feet (200') is required, there may be an additional charge based on the actual Cost for the extra footage above two hundred feet (200'). Any underground Installation may be provided at the Franchisee's actual Cost, and the work thereon shall be performed only after the Franchisee has provided the affected party with a Cost estimate in writing of any such Costs and has obtained the party's acceptance thereof.

Section 5.2.1 - CONTRACTOR QUALIFICATIONS

Any contractor proposed for work on construction, installation, operation, maintenance and repair of Cable System equipment, must be properly licensed under laws of the State and local ordinances.

Section 5.2.2 - INSTALLATION

Franchisee shall also insure that all equipment is installed in accordance with good engineering practices and of sufficient height to comply with all existing Town regulations, ordinances, and State laws, so as not to interfere in any manner with the rights of the public or individual property owner, and so as not to interfere with the travel and use of the Public Ways. During the construction, repair, or removal thereof, Franchisee shall not, except as permitted below, obstruct or impede traffic.

Section 5.2.3 - MINIMUM INTERFERENCE AND SAFETY PRECAUTIONS

Franchisee shall, at all times, install, maintain and locate all transmission lines, equipment and structures within its Control so as to cause minimum interference with the rights and reasonable convenience of property owners, and shall, at all-times, keep and maintain such transmission lines, equipment and structures in a safe and adequate condition, and in good order and repair. Franchisee shall, at all times, employ necessary and reasonable care, and shall install, maintain, and use commonly accepted methods and devices for preventing failures and accidents, which are likely to cause damage, injury or nuisances to the public. Suitable barricades, flags, lights, flares or other devices shall be used at such times and places as are reasonably required for the safety of all members of the public.

Section 5.2.4 - MAPS

Neither the Franchisee nor the Town guarantees the accuracy of any maps showing the horizontal or vertical location of existing structures or substructures.

Section 5.2.5 - QUALITY OF CONSTRUCTION

Construction, installation, operation and maintenance of the Cable System shall be performed in an orderly and workmanlike manner. All cables and wires shall be installed, where reasonably possible, parallel and bundled with due respect for aesthetic and engineering considerations.

Section 5.2.6 - ANTENNAS

Any antenna structure used in the Cable System shall comply with construction, marking and lighting of antenna structure standards as required by Federal, State and local laws and regulations.

Section 5.2.7 - TOWN LAWS

All work in any way necessitated by the business of the Franchisee, which may involve the opening, breaking up or tearing up of a portion of a Street, sidewalk, or other party of any Town-owned or Town-controlled property, shall be done and repaired in accordance with Town permit and other procedures generally applicable to work in the Public Ways. Nothing herein shall be construed as a requirement that the Town conduct an excavation or repair on behalf of or agent for the Franchisee.

Section 5.2.8 - RESTORATION OF PROPERTY

The Franchisee, at its sole expense, shall restore all damage to property, both public and private, caused by construction, operation, maintenance and repair of the Cable System. Such restoration shall be made as soon as practicable after completion of work necessitating the restoration. In no event shall such restoration be made later than fifteen (15) Days, weather and/or ground conditions permitting, after the Franchisee's receipt of written notification from the owner of the property so damaged, unless otherwise mutually agreed by the Franchisee and the property owner in writing. Any repairs of public or private property shall be to a condition as good as that prevailing before said damage.

Section 5.2.9 - UNDERGROUND INSTALLATION

All Installations shall be underground in those areas of the Town where public utilities providing both telephone and electric service are underground whether required by law or not, unless otherwise specified and approved by the Town at the time of Installation. In areas where either telephone or electric utility facilities are above ground at the time of Installation, Franchisee may install its Cable System above ground, provided that at such time as those facilities are required to be placed underground by the Town, the Franchisee shall likewise place its Cable System underground without additional cost to the Town.

Underground cable lines shall be placed beneath the pavement subgrade in compliance with applicable Town ordinances, rules, regulations and/or standards. It is the policy of the Town that existing poles for electric and communication purposes be utilized wherever possible and that underground Installation is preferable to the placement of additional poles.

Where not otherwise required to be placed underground by this Franchise Renewal, and where compatible with the design of the Cable System, the Franchisee's Drops shall be located underground at the request of the property owner, provided that the excess Cost over aerial Cost for such Drops shall be borne by the property owner making the request.

In the case of new construction or property development where utilities are to be placed underground, the developer or property owner shall give Franchisee Reasonable Notice of not less than forty-five (45) Days prior to such construction or development, and, if applicable, of the particular date on which open trenching will be available for Franchisee's Installation of conduit, pedestals and/or vaults, and materials to be provided at Franchisee's expense. Franchisee shall also provide specifications as needed for trenching. Cost of trenching and easements required to bring Service to the development shall be borne by the developer or property owner.

Franchisee shall locate, mark and map any of its installed cable or Cable System for the Franchise Authority or its designee(s) at no expense to Town.

Drops, which are intended to be underground, shall be buried within ten (10) Days of placement, weather and ground conditions permitting. On Notice from Franchise Authority that any work is being performed contrary to the provisions of this Franchise Renewal, or in an unsafe or dangerous manner as determined by Franchise Authority, or in violation of the terms of any applicable permit, laws, regulations, ordinances or standards, the Franchise Authority may exercise any and all remedies available to it under applicable law.

Section 5.2.10 - COOPERATION WITH BUILDING MOVERS

The Franchisee shall, on the request of any Person holding a building-moving permit issued by the Town, temporarily raise or lower its Cable System to permit the moving of such building. The expense of such temporary removal, raising or lowering of the Cable System shall be paid by the Person requesting the same, and the Franchisee shall have the authority to require such payment in advance. The Franchisee shall be given not less than fifteen (15) working Days' advance Notice to arrange for such temporary changes.

Section 5.2.11 - TREE TRIMMING

The Franchisee may trim trees or other vegetation owned by the Town to prevent branches, leaves or roots from touching or otherwise interfering with its wires, cable, or other structure, provided that such trimming or pruning shall be at the expense of the Franchisee and shall be in accordance with applicable ordinances, rules, regulations and procedures of the Town.

The Franchisee shall obtain the prior permission of the owner of any privately owned trees or other vegetation before it prunes or trims same.

Section 5.2.12 - PUBLIC PROPERTY

Franchisee shall, prior to performing any excavation of any public right-of-way for underground construction, notify the Department of Public Works and, if said right of way is a Class I, Class III, or State-maintained Class II highway, shall obtain the necessary written permission, permits, and/or licenses from the State pursuant to RSA 231:159 et seq. and/or RSA236:9-12. For excavation on all other public highways written permission, permits, and/or licenses shall be sought from the Board of Selectmen pursuant to RSA 231:159 et seq. and/or RSA 236:9-12. If written permission is required from the Board of Selectmen it shall be given within thirty (30) Days, assuming the proposed excavation is in compliance with State and local regulations.

The Franchisee shall replace and properly relay and repair the surface, base and landscape treatment of any public sidewalk or right-of-way that may be excavated or damaged by reason of the erection, construction, maintenance or repair of Franchisee's Cable System within a reasonable time after completion of the work to a condition as good as that prevailing before said work. Should the Town reasonably determine, within six (6) months from the date of any restoration performed by the Franchisee, that such surface, base or landscape treatment requires additional restoration work to meet the foregoing standard; the Franchisee shall perform such additional restoration work to the reasonable satisfaction of the Town.

Upon the request of the Franchisee, the Town shall use reasonable efforts to locate, in advance, any Town-owned water, sewage and drainage lines. Any damages or alterations that occur to the Town's water, sewage or drainage lines or to any other municipal structures in the Streets during the construction, which are due to the presence, operation or maintenance of the Cable System, or to the Franchisee's negligence, shall be the Franchisee's responsibility. The Cost of such repairs made by the Town including all Services and materials shall be charged to the Franchisee by the Town, and these charges shall be paid promptly. All necessary easements over and under private property shall be secured by the Franchisee.

Section 5.2.13 - APPROVAL FOR POLES

No poles shall be erected by the Franchisee without prior approval of the Town with regard to location, height, types and any other pertinent aspects. However, no erection of any pole or wire-holding structure of the Franchisee shall give rise to a vested interest in same, and such poles or structures shall be removed or modified by the Franchisee at its own expense whenever the Town determines that the public convenience would be enhanced thereby.

Section 5.2.14 - REQUIREMENTS TO USE EXISTING POLES

Where poles already existing for use in serving the Town are available for use by the Franchisee, but it does not make arrangements for such use, the Town may require the Franchisee to use such poles and structures if it determines that the public convenience would be enhanced thereby and the terms of the use available to the Franchisee are satisfactory to the Franchisee.

Section 5.2.15 - JOINT USE OF FACILITIES

Nothing in this Franchise shall authorize the Town to use any Franchisee owned conduits or facilities until the Town has entered into a separate agreement with the Franchisee, supported by independent consideration, for such rights of attachment or use.

Section 5.3 - DISCONNECTION AND RELOCATIONS

The Franchisee shall, at its sole Cost and expense, protect, support, temporarily disconnect, relocate in the same Street or other Public Way, or remove from any Street or any other Public Ways, any of its property as required by the Franchise Authority or its designee(s) by reason of traffic conditions, public safety, Street construction, change or establishment of Street grade, or the construction of any public improvement or structure by any Town department acting in a governmental capacity.

Section 5.4 - SAFETY STANDARDS

The Franchisee shall construct, install, operate, maintain and remove the Cable System in conformance with Occupational Safety and Health Administration regulations, the National Electrical Code, the NCTA Safety Manual, the National Electrical Safety Code, the National Television Standards Code, the Bell Telephone Systems Code of Pole Line Construction (when applicable), the rules and regulations of the Commission and the FCC, all State and local laws, and all land use restrictions as the same exist or may be amended hereafter.

Section 5.5 - PEDESTALS

In any cases in which pedestals housing active and passive devices are to be utilized in Public Ways, such equipment must be installed in accordance with Section 621 (a)(2) of the Communications Act and Town ordinances and regulations.

(a) Franchisee shall provide and install, at no charge to the Town, one Outlet with Lifetime and Cable Plus Service tiers to each municipal building, public school, and public library, as designated in Exhibit C, passed by the Cable System. Franchisee shall consult with the appropriate facility manager to determine the location of the Outlet prior to the installation of the free Service. Franchisee shall also donate coaxial Drop wire to the Town for the wiring of additional municipal and school Service Outlets. The obligation of Franchisee to provide such Service shall also apply to any addition municipal or public school buildings constructed during the term of this Renewal Franchise and passed by the Cable System.

Section 6.5 - DROPS, OUTLETS AND MONTHLY SERVICE TO PUBLIC BUILDINGS

It shall be the right of all Subscribers to receive Service insofar as their account status is in good standing, being current with obligations, and are not in delinquent status with Franchisee. The Franchisee shall ensure that all Subscribers receive continuous, uninterrupted Service, except for necessary Service interruptions.

Section 6.4 - CONTINUITY OF SERVICE

In order that Subscribers to the Cable Television System have the capability to simultaneously view and tape any Channel and set their "time shifter" to record multiple Channels remotely, the Franchisee shall provide to any Subscriber, upon request, an A/B switch at no charge, which will allow VCR owners to tape and view any Channel capable of being tuned by such owner's television set and/or VCR, except two scrambled Signals. The Franchisee shall, upon request of any Subscriber, apprise Subscriber of the options available to all Subscribers in writing with the applicable charges, if any.

Section 6.3 - VCR / CABLE COMPATIBILITY

Pursuant to Section 624 of the Communications Act, the Franchisee shall maintain broad categories of Programming. Pursuant to federal law, all programming decisions are at the sole discretion of the Franchisee.

Section 6.2 - PROGRAMMING

Franchisee shall provide a Basic Service, which shall include all Signals, which are required to be carried on Basic Service by a Cable Television System serving the Town.

Section 6.1 - BASIC SERVICE

SERVICES AND PROGRAMMING

ARTICLE 6

For reference purposes, and upon request, the Franchisee shall provide the Franchise Authority with the names and addresses of any construction companies, or if operating as individuals, the names and addresses of such individuals, who will be subcontracted by the Franchisee to fulfill construction obligations of this Franchise Renewal.

Section 5.6 - QUALIFICATIONS OF CONSTRUCTION PERSONNEL

Subscribers shall have the option of either renting or buying any Converter box, which is (or may be) used to receive Signals on the Cable System. In the event a federal or State statute provides for private ownership of Converters, Subscribers shall have the option of purchasing a Converter from the Franchisee or any other retail source. Subscribers owning Converters that are technically compatible with the Cable System and that are not used for the purpose of avoiding payment for one or more programming Service, shall be accommodated in the Cable System at no additional cost to the Subscriber.

Section 6.8 - CONVERTERS

At the request of the Franchise Authority, Franchisee shall conduct return mail or telephone surveys (or commission such surveys) of the Cable System's Subscribers every three (3) years, beginning within sixty (60) Days of the three-year anniversary of the Effective Date, to solicit input from Subscribers regarding Subscriber preferences for existing and new programming Services. The Franchisee shall report customer-service related results to the Franchise Authority, subject to the confidentiality provisions of federal and State laws.

Section 6.7 - SURVEYS

(b) For purposes of this section, "relevant cable technology" shall be defined as those technologies that the Franchisee and the Franchise Authority shall in good faith agree to be included in the performance review mentioned above, including but not limited to Subscriber Converters optimally compatible with VCRs and cable-ready television sets, remote control devices and new Scrambling/descrambling processes.

(a) Upon request of the Board of Selectmen, the Franchisee shall hold a performance evaluation, commencing in the third year following the Effective Date, to review with the Franchise Authority changes in relevant cable technology, assuming such changes exist, (as defined below) that might benefit Bristol Subscribers. The Franchisee shall implement any such changes in relevant cable technology three (3) years after the Effective Date of the Renewal Franchise, provided (i) the Franchise Authority requests in writing that the Franchisee perform the upgrade as in the best interest of Subscribers, (ii) the change is technically feasible and economically advantageous to the Franchisee and its Subscribers, and (iii) the term of this Renewal Franchise is extended to ensure a minimum of eight (8) years remaining on the contract. If these conditions are met, the Franchisee shall complete any such changes in a timely and reasonable manner. For purposes of determining whether a change in cable television technology is economically advantageous to the Franchisee and its Subscribers, the Franchisee shall consider all relevant factors, including (i) the probable demand for the enhanced Service that the change in technology would permit and (ii) the remaining life of the renewal term over which the Cost of any such improvements would be amortized and passed through to Subscribers.

Section 6.6 - CHANGES IN CABLE TELEVISION TECHNOLOGY

(b) Franchisee shall provide and install, at no charge to the Town, one Outlet and cable modem with high speed residential Service tier to each municipal building, public school, and public library, as designated in Exhibit C, passed by the Cable System. Franchisee shall consult with the appropriate facility manager to determine the location of the Outlet prior to the installation of the free Service. The obligation of Franchisee to provide such Service shall also apply to any addition municipal or public school buildings constructed during the term of this Renewal Franchise and passed by the Cable System.

ARTICLE 7

PUBLIC EDUCATIONAL AND GOVERNMENTAL ACCESS FACILITIES AND SUPPORT

Section 7.1 - PEG ACCESS CHANNELS

(a) Franchisee shall provide one six-megahertz Channel for PEG Access programming in the Town within twelve (12) months of the Effective Date of this Franchise Renewal Agreement and a second Access Channel at such time, if any, as the Town is programming the first Access Channel for at least eighteen (18) hours per day with seventy-five percent (75%) non-duplicated programming over an eight (8) week period. The Franchisee shall provide and maintain all necessary processing equipment at the Headend in order to switch Upstream Signals from a single location designated by the Town to the designated Downstream Access Channel.

(b) Within ninety (90) Days of the Effective Date of this Franchise Renewal and at the request of the Franchise Authority, the Franchisee shall provide a character generator for the use of programming a community bulletin board on the PEG Access Channel, up to a Cost of Four Thousand Dollars (\$4000.00). The Franchisee shall consult with the Town on the technical specifications of such character generator prior to its purchase.

(c) Franchisee agrees to provide the equipment required in this section 7.1 at no Cost to the Franchise Authority or the Town's Subscribers.

Section 7.2 - ACCESS EQUIPMENT / FACILITIES FUNDING

(a) Production Equipment for Community Local Access. Franchisee shall provide a grant of five thousand dollars (\$5,000) within sixty (60) Days of a request by the Franchise Authority to be used by the Town for construction of a PEG Access studio and/or the purchase of PEG Access equipment. Franchisee shall also provide, within sixty (60) Days of a request by the Franchise Authority, a second grant up to three thousand dollars (\$3,000) to be used by the Town of Bristol towards annual dues to Lakes Region Public Access (LRPA). Franchisee agrees to provide these grants at no Cost to the Franchise Authority or the Town's Subscribers.

(b) Within two (2) years of said payment, the Town shall inform the Franchisee of the uses of these funds.

Section 7.3 - INSTITUTIONAL NETWORK

After completion of the upgrade and upon the request of the Franchise Authority, the Franchisee shall construct, install, activate, operate and maintain, at its sole Cost and expense, a fiber-optic Institutional Network ("I-Net") backbone to be utilized by the Town. Within the Town of Bristol, the I-Net shall connect the Town buildings and other institutions specified in Exhibit D attached hereto ("I-Net Buildings"). The Franchisee's obligations in this Section 7.3 shall not exceed a total of five thousand dollars (\$5,000).

(a) The Franchisee shall file with the Franchise Authority schedules, which shall describe all Cable Services offered by the Franchisee, all rates and charges of any kind, and all terms or conditions relating thereto. Thereafter, the Franchisee shall file with the Franchise Authority all changes in Cable Services, all rates and charges of any kind, and all terms and conditions relating thereto at least thirty (30) Days prior to all such changes. The Franchisee shall notify all Subscribers of

Section 9.2 – NOTIFICATION OF RATES AND CHARGES

The Town reserves the right to regulate the Franchisee's rates and charges to the extent allowable under State and federal laws.

Section 9.1 - RATE REGULATION

RATES AND CHARGES

ARTICLE 9

The Franchisee shall not permit the use or operation of the Cable System by Affiliates on terms, which result in a diversion of revenues from operation of the Cable System to the detriment of the Town under this Franchise Renewal. The Franchisee shall enter into good faith negotiations to resolve any dispute(s) regarding gross revenue discrepancies on account of such a relationship.

Section 8.3 – AFFILIATES USE OF SYSTEM

(i) Both parties hereto have agreed that the Franchisee may, at its sole discretion, externalize and otherwise pass-through to Subscribers any payments set out herein.

(ii) If requested to do so by the Franchise Authority, the Franchisee shall provide a written explanation of such externalized, line-itemed or passed-through Costs, in sufficient detail to enable the Franchise Authority to understand how such Costs have been externalized, line-itemed or passed-through as allowed or required by applicable law(s). Unless agreed to otherwise, the Franchisee shall provide said detailed Costs to the Franchise Authority in writing, within thirty (30) Days of a request to do so by the Franchise Authority.

Section 8.2 – EXTERNALIZATION OF FRANCHISE RENEWAL COSTS

If, and as, the Town may require, the Franchisee shall pay the Town, throughout the term of this Franchise Renewal Agreement, a Franchise Fee up to 5% of the Franchisee's Gross Annual Revenue each year of this Renewal, but only so far as is in accordance and consistent with the Communications Act of 1934 and FCC regulations.

Section 8.1 – FRANCHISE FEE PAYMENT

FRANCHISE FEES

ARTICLE 8

any impending rate increases no later than thirty (30) Days prior to such increase and provide each Subscriber with a schedule describing existing and proposed rates for each Cable Service offered.

(b) At the time of Installation of Service, the Franchisee shall also provide each Subscriber with a detailed explanation of downgrade and upgrade policies and the manner in which Subscribers may terminate Cable Service. Subscribers shall have at least thirty (30) Days prior to the effective date of any rate increase to either downgrade Service or terminate Service altogether without any charge.

Section 9.3 – PUBLICATION

All rates for Subscriber Services shall be published. A written schedule of all rates shall be available upon request during Normal Business Hours at the Franchisee's business office. Nothing in this Franchise Renewal shall be construed to prohibit the reduction or waiver of charges in conjunction with promotional campaigns for the purpose of attracting or maintaining Subscribers.

Section 9.4 – CREDIT FOR SERVICE INTERRUPTION

(a) Pursuant to RSA 52-C:3-c, Franchisee shall grant a pro-rate credit or rebate to any Subscriber, upon request, whose Cable Service is interrupted for twenty-four (24) or more consecutive hours, if the interruption was not caused by the Subscriber.

(b) If an entire tier or Premium Service of a Subscriber's Cable Service is interrupted for twenty-four (24) or more consecutive hours, the Franchisee shall, upon the Subscriber's request, provide a pro-rate credit or rebate for each tier or Premium Service interruption.

ARTICLE 10

INSURANCE AND BONDS

Section 10.1 – INSURANCE; PERFORMANCE BOND AND INDEMNIFICATION

(a) At all times during the term of the Franchise Renewal, including the time for removal of facilities provided for herein, the Franchisee shall maintain the following insurance policies:

PERSONAL DAMAGES PER PERSON:	\$1,000,000.00
PERSONAL DAMAGES PER OCCURRENCE:	1,000,000.00
PROPERTY DAMAGE PER OCCURRENCE:	1,000,000.00
PROPERTY DAMAGE AGGREGATE:	1,000,000.00
AUTOMOBILE COVERAGE:	1,000,000.00
UMBRELLA POLICY:	2,000,000.00

(b) Franchisee shall maintain sufficient insurance to protect the parties from any claim under the Workmen's Compensation Laws. All insurance required by this section shall be and remain in force throughout the duration of this Franchise Renewal. Policies of this insurance, or certified copies thereof, shall be delivered to the Town Clerk on or prior to the Effective Date of this agreement, and kept on file and up-to-date in the offices of the Board of Selectmen.

The parties agree to act in good faith to maintain good communication between them. Barring emergency, the Franchise Authority will give to Franchisee reasonable advance Notice of the Cable System being on the agenda of the Franchise Authority. Franchisee will have the right of Notice of meetings of the Town and the right of representation thereat, and Franchisee will inform and consult with the Franchise Authority when any questions of compliance with this Franchise Renewal Agreement may be raised by change(s) in its operation.

Section 11.2 – GOOD FAITH COMMUNICATION

The Franchise Authority and/or its designee(s) shall monitor and enforce the Franchisee's compliance with the terms and conditions of this Franchise Renewal. The Franchise Authority shall notify the Franchisee in writing of any instance of non-compliance pursuant to Section 12.1 infra.

Section 11.1 – REGULATORY AUTHORITY

ADMINISTRATION AND REGULATION

ARTICLE 11

“It is hereby understood and agreed that this policy and performance bond shall not be canceled, materially changed or the amount of coverage thereof reduced until thirty (30) Days after receipt by the Franchise Authority by certified mail of one (1) copy of a written Notice of such intent to cancel, materially change or reduce the coverage required herein.”

The insurance policies and performance bond required herein shall contain an explicit endorsement stating that such insurance policies and performance bond are intended to cover the Liability assumed by the Franchisee under the terms of the Franchise Renewal and shall contain the following endorsement:

Section 10.3 – NOTICE OF CANCELLATION OR REDUCTION OF COVERAGE

The Franchisee shall submit to the Franchise Authority or its' designee(s), upon request, copies of all current certificates regarding (i) all insurance policies as required herein; and (ii) the performance bond as required herein.

Section 10.2 – REPORTING

(d) Franchisee shall indemnify and hold harmless the Board of Selectmen, its agents, employees, residents and property owners for any claim of damages to Person(s) or property resulting from the installation, maintenance, operation, use or removal of the system, for the duration of this Franchise Renewal.

(c) Franchisee shall post a performance bond, in the amount of fifty thousand dollars (\$50,000.00) for the duration of the Franchise Renewal; provided, however, that when the upgrade is completed, as defined herein, the performance bond shall be reduced to ten thousand dollars (\$10,000.00), which shall be held by the Town during the life of this Agreement. Such performance bond shall be in a form acceptable to the Board of Selectmen, bonding compliance with this Franchise Renewal for its duration.

The Franchisee shall not discriminate against any Person in its solicitation or Service on the basis of race, color, creed, religion, ancestry, national origin, sex, disability, age, marital status, or status with regard to public assistance. The Franchisee shall be subject to all other requirements of federal and State laws or regulations, relating to nondiscrimination through the term of the Franchise Renewal.

Section 11.4 – EMERGENCY REMOVAL OF PLANT

If, at any time, in case of fire or disaster in the Town, it shall become necessary in the reasonable judgment of the Franchise Authority and/or its designee(s), to cut or move any of the wires, cables, amplifiers, appliances or appurtenances of the Cable Television System, the Franchise Authority shall have the right to do so at the sole Cost and expense of the Franchisee. In such event, the Franchisee shall reimburse the Franchise Authority the Cost and expense of such removal within thirty (30) Days of submission of a bill therefore. It is expressly understood that the Franchisee is not responsible or liable for any property damage or personal injury caused by or as a result of actions of the Franchise Authority and/or its designee(s) pursuant to this Section 11.4 of the Franchise Renewal.

Section 11.5 – REMOVAL AND RELOCATION

The Franchise Authority shall have the power at any time to order and require the Franchisee to remove or relocate any pole, wire, cable or other structure owned by the Franchisee that is dangerous to life or property. In the event that the Franchisee, after Notice, fails or refuses to act within a reasonable time, the Franchise Authority shall have the power to remove or relocate the same at the sole Cost and expense of the Franchisee. In such event, the Franchisee shall reimburse the Franchise Authority the Cost and expense of such removal within thirty (30) Days of submission of a bill thereof. It is expressly understood that the Franchisee is not responsible or liable for any property damage or personal injury caused by or as a result of actions of the Franchise Authority and/or its designee(s) pursuant to this Section 11.5 of the Franchise Renewal.

Section 11.6 – INSPECTION

The Franchise Authority or its designee(s) shall have the right to inspect the plant, equipment or other property of the Franchisee in the Town at reasonable times and under reasonable circumstances where necessary to ascertain the Franchisee's compliance with this Franchise Renewal Agreement. The Franchisee shall fully cooperate in the performance of such testing; provided, however, that such tests are reasonable and do not interfere with the operation or the performance of the Cable System, and that such tests are conducted after Reasonable Notice to the Franchisee. The Franchisee shall be entitled to have a representative present during such tests and shall be provided complete and detailed results of such tests.

Section 11.7 – JURISDICTION

Jurisdiction and venue over any dispute, action or suit shall be in any court of appropriate venue and subject matter jurisdiction located in the State of New Hampshire and the parties by this

ARTICLE 12

DETERMINATION OF BREACH – FRANCHISE REVOCATION

Section 12.1 – NON-COMPLIANCE NOTICE

Notice of non-compliance may be issued to Franchisee by the Franchise Authority when it appears to the Franchise Authority that Franchisee has failed to comply with any provision of this Franchise Renewal. Notice may also state that, after a specified date, which shall be at least fifteen (15) weekdays (excluding holidays) subsequent to the Notice, the Franchise Authority will take corrective action at Franchisee's expense, in which case the Franchise Authority may take the necessary sum from Franchisee's bond and Franchisee shall immediately replenish the bond to the stipulated level.

Section 12.2 – FORMAL WARNING NOTICE

If it appears to the Franchise Authority that any ground(s) for revocation of this Franchise Renewal may exist, the Franchise Authority may issue a formal warning Notice to Franchisee. This warning shall specify the apparent ground(s) for revocation, shall state a place and time for a revocation hearing, which shall be at least fifteen (15) weekdays (excluding holidays) subsequent to the mailing, and shall ask Franchisee to show cause why this Franchise Renewal should not be revoked.

Section 12.3 – REVOCATION

The Franchise Authority may revoke this Franchise Renewal on one or more of the following grounds:

- (a) False or misleading material statements or material omissions in Franchisee's proposal or reports to the Board of Selection;
- (b) Transfer of this Franchise Renewal outside the procedures defined in Section 2.8;
- (c) Failure after ninety (90) Days have elapsed from the date of Non-Compliance Notice to correct the cited non-compliance;
- (d) Failure to maintain bond or insurance as required by this Franchise Renewal.

(e) Default or material breach of any term of this Franchise Renewal. The Franchise Authority may revoke only after holding a revocation hearing, prior to which Franchisee shall have been properly warned in accordance with Sections 12.1 and 12.2 above.

Upon request by the Franchise Authority at the time of termination of this Franchise Renewal Agreement or any extension thereof, whether by expiration, revocation or otherwise, Franchisee shall remove all poles, cable and apparatus from the roads and

(d)

breach by the Franchisee. Franchise Authority to take any action permitted by this Franchise Renewal at any other time in the event that such breach has not been cured, or with respect to any other deemed or construed to constitute a waiver of or otherwise affect the right of the Franchise Authority to take any action in the event of any breach by the Franchisee shall not be effective, it shall be in writing. The failure of the Franchise Authority to be effective, it shall be in writing. In order for any waiver of the remedy by the Franchise Authority at any other time. In order for any waiver of the any one time shall affect the exercise of such right or remedy or any other right or No waiver of, nor failure to exercise any right or remedy by the Franchise Authority at the terms and conditions in this Franchise Renewal.

(c)

The rights and remedies provided herein are cumulative and not exclusive of any remedies provided by law, and nothing contained in this Franchise Renewal shall impair any of the rights of the Franchise Authority under applicable law, subject in each case to

(b)

No failure on the part of the Franchise Authority to exercise, and no delay in exercising any right in this Franchise Renewal, shall operate as a waiver thereof, nor shall any single or partial exercise of any such right preclude any other right, all subject to the conditions and limitations contained in this Franchise Renewal and applicable law relating to estoppel(s).

(a)

Section 12.7 – NO WAIVER-CUMULATIVE REMEDIES

No decision by the Franchise Authority to invoke any remedy under this Franchise Renewal or under any statute, law or ordinance shall preclude the availability of any other such remedy.

Section 12.6 – NON-EXCLUSIVITY OF REMEDY

Except in an emergency situation or where equitable relief is sought, in the event that either party intends to take legal action against the other for any reason, that party shall first (i) give the other Reasonable Notice that an action will be filed, (ii) meet with that party promptly before it files any such action, and (iii) negotiate the issue, which is the subject of any proposed legal action, in good faith.

Section 12.5 – NOTICE OF LEGAL ACTION

The termination of this Franchise Renewal and the Franchisee's rights and obligations herein shall become effective upon the earliest to occur of: (i) the revocation of the Franchise Renewal by action of the Franchise Authority, pursuant to Section 12.3 above; (ii) the Abandonment of the Cable System, in whole or material part, by the Franchisee without the express, prior approval of the Franchise Authority; or (iii) the expiration of the term of this Franchise Renewal and the denial of any renewal or extension. In the event of any termination, the Franchise Authority shall have all of the rights and obligations provided in this Franchise Renewal.

public places in, over, under or along which they were installed by Franchisee, or caused to be installed by Franchisee, and shall restore the areas to a condition as good as before.

ARTICLE 13

SUBSCRIBER RIGHTS AND CONSUMER PROTECTION

Section 13.1 – SUBSCRIBER RIGHTS AND CONSUMER PROTECTION

(a) Pursuant to RSA53-C:3-c, the Franchisee shall have at least one published telephone number, toll free, from phones in the Town, to be answered twenty-four (24) hours a day, seven (7) Days a week, for the purpose of receiving Service Complaints. Franchisee shall also maintain technical personnel on call twenty-four (24) hours a day, seven (7) Days a week, and shall dispatch same immediately in case of safety hazards or of Service Complaints affecting three (3) or more Users and within one (1) business day of other Service Complaints.

(b) Franchisee shall make necessary repairs promptly so as to keep Service outages as brief as possible, shall time discretionary outages to be at least inconvenient hours to Users as is reasonably possible and shall, upon request, make pro-rated rebates or credits to Users for loss of Service in excess of twenty-four (24) hours consecutively, excluding delay caused by User and exempting acts of God.

(c) Pursuant to RSA53-C:3-d and RSA53-C:3-e and the Communications Act, Franchisee shall respond quickly and constructively to all Complaints, from Users or non-Users, shall keep logs of same together with resolutions thereof, and shall make logs available for inspection by the Franchise Authority for up to a year following the latest Complaint in the log. Franchisee shall give to each new User a copy of Complaint and dispute resolution practices. Franchisee shall, upon request, provide the Franchise Authority with a quarterly summary of Service Complaints and corrective actions.

Section 13.2 – DISCONNECTION AND TERMINATION OF CABLE SERVICES

In no event shall the Franchisee disconnect a Subscriber's Cable Service for nonpayment unless (i) the Subscriber is delinquent, (ii) the Franchisee has given said Subscriber written Notice of such past due amount in a clear and conspicuous manner, (iii) the Subscriber has been given a second Notice of delinquency and (iv) the Subscriber is given a disconnection Notice at thirty (30) Days. In no event shall such disconnection or termination for nonpayment occur in less than thirty (30) Days after a bill is due. Any Subscriber, including seasonal Subscribers, may request to be reconnected to the system at any time upon payment of the standard connection charge and any past amounts due to be paid by that Subscriber.

Section 13.3 – DAMAGE OR LOSS OF EQUIPMENT

In the event that a Subscriber is unable to provide documentation to substantiate that a Converter or other Franchisee provided equipment was stolen or destroyed by fire or other acts of God, the Franchisee shall be entitled to assess a charge for a missing Converter or other Franchisee provided equipment. In the event that a Subscriber supplies the Franchisee with a police or fire

Such Notice shall be in non-technical language, understandable by the general public, and in a convenient format. On or before January 30 of each year, the operator shall certify to the Franchise Authority and to the office of the Attorney General, Consumer Protection and Antitrust Bureau that it has distributed the Notice as provided in RSA 53-C:3-d during the previous calendar year as required.

- (b) States the responsibility of the office of the Attorney General, Consumer Protection and Antitrust Bureau to receive and act on consumer complaints.
- (a) Informs Subscribers how to communicate their views to the cable company and to the office of the Attorney General, Consumer Protection and Antitrust Bureau;

In accordance with RSA 53-C:3-d, Franchisee will provide annually a Notice to each Subscriber which:

Section 13.7 - NOTICE TO SUBSCRIBERS REGARDING QUALITY OF SERVICE

The Franchisee shall comply with all privacy provisions contained in all applicable federal and State laws including, but not limited to, the provisions of Section 631 of the Communications Act.

- (b) The Franchisee shall comply with all privacy provisions contained in all applicable federal and State laws including, but not limited to, the provisions of Section 631 of the Communications Act.
- (a) The Franchisee shall respect the rights of privacy of every Subscriber and/or User of the Cable Television System and shall not violate such rights through the use of any device or Signal associated with the Cable Television System, and as hereafter provided.

Section 13.6 - PROTECTION OF SUBSCRIBER PRIVACY

Upon notification by a Subscriber to disconnect or downgrade Service, the Franchisee shall cease and/or adjust said Subscriber's monthly Service charges immediately or as of the Subscriber's specified disconnect or downgrade date. In no case shall said Subscriber be charged for Service(s) requested to be changed after the Franchisee is notified of said change(s). In the event that Subscribers request disconnection or downgrade of Service(s) as a result of a rate increase, the Franchisee shall in no case impose a fee or charge for such disconnection or downgrade, provided, however, that Subscribers notify the Franchisee of such disconnection or downgrade within thirty (30) Days of receipt of Notice of such rate increase(s).

Section 13.5 - CHANGE OF SERVICE

The Franchisee shall allow its Subscribers to purchase from legal and authorized parties other than the Franchisee, own, utilize and program remote control devices, which are compatible with the Converter(s) provided by the Franchisee. The Franchisee takes no responsibility for changes in its equipment, which might make inoperable the remote control devices acquired by Subscribers.

Section 13.4 - REMOTE CONTROL DEVICES

report, which evidences that the loss of a Converter or other Franchisee provided equipment resulted from theft, fire or other acts of God, the Franchisee may assess the Subscriber the replacement Cost of such Converter and other Franchisee provided equipment or, at its election, waive any charges.

- (a) Pursuant to RSA53-C:3-e and the regulations of the Communications Act and the FCC, the Franchisee shall keep a record or log of all Complaints. Such records shall be maintained by the Franchisee for a period of three (3) years.
- (b) Such record(s) shall contain the following information for each Complaint received:
 - (i) Date, time, and nature of the Complaint
 - (ii) Name, address, telephone number of complainant;
 - (iii) Investigation of the Complaint; and
 - (iv) Manner and time of resolution of the Complaint.
- (c) If the Complaint regards equipment malfunction or the quality of reception, the Franchisee shall maintain a log indicating the corrective steps it has taken, with the nature of the problem stated. This log shall be available upon request for inspection by the Franchise Authority or its designee(s) at the Cable System office during regular business hours.

Section 14.2 - COMPLAINT LOG

- (a) Upon request of the Franchise Authority, the Franchisee shall promptly submit to the Franchise Authority any information regarding the Franchisee, its business and operations, and/or any Affiliated Person, with respect to the Cable System, including, but not limited to, all matters in connection with or affecting the construction, reconstruction, removal, maintenance, operation and repair of Franchisee's Cable System, which is reasonably required to establish the Franchisee's compliance with its obligations pursuant to this Franchise Renewal.
- (b) If the Franchisee believes that the documentation requested by the Franchise Authority involves proprietary information, then the Franchisee shall submit the information to its counsel, who shall confer with the Franchise Authority's Attorney for a determination of the validity of the Franchisee's claim of a proprietary interest.
- (c) If the Franchise Authority's Attorney agrees that the material is of a proprietary nature, the information furnished shall not become a public record and shall be accepted by the Franchise Authority on the condition of confidentiality. If no agreement is reached, either party may have recourse to a court of competent jurisdiction in the State.

Section 14.1 - GENERAL

REPORTS, AUDITS AND PERFORMANCE TESTS

ARTICLE 14

- (c) Any materials, reports, survey results or other documents required to be provided to the Franchise Authority pursuant to this Agreement shall be provided on a confidential basis, pursuant to R.S.A. Section 91A.
- (b) In the event that either the Franchise Authority or the Franchisee requests from any State or federal agency or commission a waiver or advisory opinion that would affect the operations of the Cable Television System hereunder, it shall immediately notify the other party in writing of said request, petition or waiver.
- (a) The Franchisee shall make available upon request from the Franchise Authority, copies of any petitions or communications with any State or federal agency or commission pertaining to any material aspect of the Cable System operation hereunder.

Section 14.5 – FILINGS

- (c) Franchisee further agrees to respond within twenty-four (24) hours to any and all Complaints of radio frequency interference caused to its cable Subscribers from other radio users upon Reasonable Notice of such interference, and to the extent that such interference is under the Control of the Franchisee, shall resolve any interference, which may be occurring. The Costs to eliminate the interference will be the responsibility of the party causing the interference pursuant to FCC rules and regulations.
- (b) Franchisee shall make measurements of leakage, as defined in 76.609 of the FCC Rules (Exhibit A). A report of these tests shall be provided by the Franchisee to the Franchise Authority or their designee(s), upon request. Franchisee agrees to respond within twenty-four (24) hours to any and all Complaints of radio frequency interference alleged to be caused by the operation of its Cable System and shall resolve such Complaints at the Franchisee's own expense and initiative. The Franchisee shall maintain a log of each Complaint of alleged radio frequency interference to other radio or television Users or Services along with a description of the resolution of the Complaint.
- (a) Franchisee agrees to maintain its cables, Cable Drops and all connectors used therewith, in good condition and good repair at all times. Franchisee shall insure that its System is in full compliance with all applicable technical rules contained in part 76 of the Rules and Regulations of the Federal Communications Commission (See Exhibit A).

Section 14.4 – ANNUAL PERFORMANCE TESTS

The Franchisee shall maintain an outage log showing the date, approximate time, duration, type and probably cause of all Headend, Trunk and Distribution System service failures due to causes other than routine testing or maintenance at reasonable times. These logs shall be made available, upon request, to the Franchise Authority or its designee(s), for inspection at the System office or Headend and maintained by the Franchisee for a period of not less than three (3) years.

Section 14.3 – OUTAGE LOG

- (d) If the Franchise Authority is concerned about unresolved Complaints, the Franchisee shall make available to the Franchise Authority for its inspection such records, as allowed by applicable law.

Section 14.6 – INVESTIGATION

The Franchisee shall cooperate fully and faithfully with any lawful investigation, audit or inquiry conducted by a Town governmental department, division or agency.

ARTICLE 15

MISCELLANEOUS PROVISIONS

Section 15.1 – ENTIRE AGREEMENT

This instrument contains the entire agreement between the parties, supersedes all prior agreements or proposals, except as specifically incorporated herein, and cannot be changed or amended orally in any manner, but only by an instrument in writing executed by both parties.

Section 15.2 – CAPTIONS

The captions to sections throughout this Franchise Renewal are intended solely to facilitate reading and reference to the sections and provisions of the Franchise Renewal. Such captions shall not affect the meaning or interpretation of the Franchise Renewal.

Section 15.3 – SEVERABILITY

If any section, sentence, paragraph, term or provision of this Franchise Renewal is determined to be illegal, invalid or unconstitutional, by any court of competent jurisdiction or by any State or federal regulatory agency having jurisdiction thereof, such determination shall have no effect on the validity of any other section, sentence, paragraph, term or provision hereof, all of which shall remain in full force and effect for the term of this Franchise Renewal.

Section 15.4 – ACTS OR OMISSIONS OF AFFILIATES

During the term of this Franchise Renewal, the Franchisee shall be liable for the acts or omission of its Affiliates while such Affiliates are involved directly or indirectly, in the construction, installation, extension, maintenance or operation of the Cable System as if the acts or omissions of such Affiliates were the acts of omissions of the Franchisee.

Section 15.5 – FRANCHISE RENEWAL EXHIBITS

The Exhibits to this Franchise Renewal attached hereto, and all portions thereof, are incorporated herein by this reference and expressly made a part of this Franchise Renewal.

Section 15.6 – WARRANTIES

The Franchisee warrants, represents and acknowledges, and agrees that at or before the execution of this Franchise Renewal, the Franchisee shall submit to the Franchise Authority, in a form reasonably acceptable to the Franchise Authority's Attorney, an appropriate document evidencing its warranties, that, as of the Effective Date of this Franchise Renewal:

All obligations of the Franchisee and the Franchise Authority set forth in the Franchise Renewal, except as set forth herein differently, shall commence upon the Effective Date of this Franchise Renewal and shall continue for the term of the Franchise Renewal except as expressly provided for herein.

Section 15.11 – TERM

If the Franchisee reasonably believes that any documentation to be provided, or requested to be provided, to the Franchise Authority in accordance with the provisions of the Franchise Renewal Agreement, contains proprietary or confidential information, then the Franchisee shall provide the Franchise Authority with written Notice thereof, and the Franchise Authority shall safeguard the information against disclosure, to the extent authorized under RSA91-A.

Section 15.10 – PROPRIETARY AND CONFIDENTIAL INFORMATION

All Notices to be sent pursuant to this section shall be in writing and shall be mailed by Certified Mail with Return Receipt requested to verify delivery. Notice to the Franchise Authority shall be given to: Franchise Authority, Town of Bristol, 230 Lake Street, Bristol, NH 03222. Notice to Franchisee shall be given to Vice President, MetroCast Cablevision, 9 Apple Road, Belmont, NH 03220. Either party may advise the other in writing of any change in address or designated agency for receipt of Notice.

Section 15.9 – NOTICES

All of the provisions in this Franchise Renewal shall apply to, and are enforceable against, the Franchise Authority, the Franchisee, and their respective successors and assignees.

Section 15.8 – APPLICABILITY OF FRANCHISE RENEWAL

If, by reason of Force Majeure, either party is unable in whole or in part to carry out its obligations hereunder, said party shall not be deemed in violation or default during the continuance of such inability.

Section 15.7 – FORCE MAJEURE

- (a) The Franchisee is duly organized, validly existing and in good standing under the laws of the State of New Hampshire;
- (b) The Franchisee has the requisite power and authority under applicable law and its by-laws and articles of incorporation and/or other organizational documents, is authorized by resolutions of its Board of Directors or other governing body, and has secured all consents, which are required to be obtained as of the Effective Date of this Franchise Renewal and to take all actions necessary to perform all of its obligations pursuant to this Franchise Renewal;
- (c) To the best of the Franchisee's knowledge, there is no action or proceedings pending or threatened against the Franchisee, which would interfere with performance of this Franchise Renewal.

**METROCAST CABLEVISION OF
NEW HAMPSHIRE**
 By: Steven Mordough
 Vice President/General Manager
 MetroCast Cablevision
 Date: July 27, 2005

Robert A. Kathan

Witness:

TOWN OF BRISTOL, NH
 By: James A. (Jim) Miller
 By: [Signature]
 By: [Signature]
 Date: July 25, 2005

[Signature]

Witness:

Each of the parties hereto has had full opportunity to review, revise and clarify the provisions and terms of this agreement with the assistance of an attorney and no party hereto shall be deemed to be drafter of this document for the purpose of having ambiguities construed against the drafter.

Section 15.12 - AGREEMENT TO TERMS AND CONDITIONS

(attached)

Exhibit A – FCC Technical Standards

(g) Attributable interest shall be defined by reference to the criteria set forth in Notes 1 through 5 to §76.501.

[61 FR 18977, Apr. 30, 1996, as amended at 64 FR 67196, Dec. 1, 1999]

Subpart K—Technical Standards

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§ 76.601 Performance tests.

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(a) The operator of each cable television system shall be responsible for insuring that each such system is designed, installed, and operated in a manner that fully complies with the provisions of this subpart.

(b) The operator of each cable television system shall conduct complete performance tests of that system at least twice each calendar year (at intervals not to exceed seven months), unless otherwise noted below. The performance tests shall be directed at determining the extent to which the system complies with all the technical standards set forth in §76.605(a) and shall be as follows:

(1) For cable television systems with 100 or more subscribers but with 12,500 or fewer subscribers, proof-of-performance tests conducted pursuant to this section shall include measurements taken at six (6) widely separated points. However, within each cable system, one additional test point shall be added for every additional 12,500 subscribers or fraction thereof (e.g., 7 test points if 12,501 to 25,000 subscribers; 8 test points if 25,001 to 37,500 subscribers, etc.). In addition, for technically integrated portions of cable systems that are not mechanically continuous (i.e., employing microwave connections), at least one test point will be required for each portion of the cable system served by a technically integrated microwave hub. The proof-of-performance test points chosen shall be balanced to represent all geographic areas served by the cable system. At least one-third of the test points shall be representative of subscriber terminals most distant from the system input and from each microwave receiver (if microwave transmissions are employed), in terms of cable length. The measurements may be taken at convenient monitoring points in the cable network. Provided, that data shall be included to relate the measured performance of the system as would be viewed from a nearby subscriber terminal. An identification of the instruments, including the makes, model numbers, and the most recent date of calibration, a description of the procedures utilized, and a statement of the qualifications of the person performing the tests shall also be included.

(2) Proof-of-performance tests to determine the extent to which a cable television system complies with the standards set forth in §76.605(a) (3), (4), and (5) shall be made on each of the NTSC or similar video channels of that system. Unless otherwise as noted, proof-of-performance tests for all other standards in §76.605(a) shall be made on a minimum of four (4) channels plus one additional channel for every 100 MHz, or fraction thereof, of cable distribution system upper frequency limit (e.g., 5 channels for cable television systems with a cable distribution system upper frequency limit of 101 to 216 MHz; 6 channels for cable television systems with a cable distribution system upper frequency limit of 217–300 MHz; 7 channels for cable television systems with a cable distribution system upper frequency limit to 300 to 400 MHz, etc.). The channels selected for testing must be representative of all the channels within the cable television system.

(3) The operator of each cable television system shall conduct semi-annual proof-of-performance tests of that system, to determine the extent to which the system complies with the technical standards set forth in §76.605(a)(4) as follows. The visual signal level on each channel shall be measured and recorded, along with the date and time of the measurement, once every six hours (at intervals of not less than five hours or no more than seven hours after the previous measurement), to include the warmest and the coldest times, during a 24-hour period in January or February and in July or August.

(4) The operator of each cable television system shall conduct triennial proof-of-performance tests of its system to determine the extent to which the system complies with the technical standards set forth in §76.605(a)(11).

(c) Successful completion of the performance tests required by paragraph (b) of this section does not relieve the system of the obligation to comply with all pertinent technical standards at all subscriber terminals. Additional tests, repeat tests, or tests involving specified subscriber terminals may be required by the Commission or the local franchiser to secure compliance with the technical standards.

(d) The provisions of paragraphs (b) and (c) of this section shall not apply to any cable television system having fewer than 1,000 subscribers: *Provided, however,* that any cable television system using any frequency spectrum other than that allocated to over-the-air television and FM broadcasting (as described in §§73.603 and 73.210 of this chapter) is required to conduct all tests, measurements and monitoring of signal leakage that are required by this subpart. A cable television system operator complying with the monitoring, logging and the leakage repair requirements of §76.614, shall be considered to have met the requirements of this paragraph. However, the leakage log shall be retained for five years rather than the two years prescribed in §76.1706.

Note 1 to §76.601:

Prior to requiring any additional testing pursuant to §76.601(c), the local franchising authority shall notify the cable operator who will be allowed thirty days to come into compliance with any perceived signal quality problems which need to be corrected. The Commission may request cable operators to test their systems at any time.

Note 2 to §76.601:

Section 76.1717 contains recordkeeping requirements for each system operator in order to show compliance with the technical rules of this subpart.

Note 3 to §76.601:

Section 76.1704 contains recordkeeping requirements for proof of performance tests.

[65 FR 53615, Sept. 5, 2000]

§ 76.602 Incorporation by reference.

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(a) The materials listed in this section are incorporated by reference in this part. These incorporations by reference were approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. These materials are incorporated as they exist on the date of the approval, and notice of any change in these materials will be published in the Federal Register. The materials are available for purchase at the corresponding addresses as noted, and all are available for inspection at the Office of the Federal Register, 800 North Capitol Street, NW, suite 700, Washington, DC, and at the Federal Communications Commission, 445 12th St., SW., Reference Information Center, Room CY-A257, Washington, DC 20554.

(b) The following materials are available for purchase from at least one of the following addresses: Global Engineering Documents, 15 Inverness Way East, Englewood, CO 80112 or at <http://global.ihc.com>; or American National Standards Institute, 25 West 43rd Street, New York, New York, NY 10036 or at <http://webstore.ansi.org/standards/default.asp>; or Society of Cable Telecommunications Engineers at <http://www.scte.org/standards/index.cfm>; or Advanced Television Systems Committee, 1750 K Street, NW, Suite 1200, Washington, DC 20006 or at <http://www.atsc.org/standards>.

(1) ANSI/SCTE 26 2001 (formerly DVS 194): "Home Digital Network Interface Specification with Copy Protection," 2001, IBR approved for §76.640.

(2) SCTE 28 2003 (formerly DVS 295): "Host-POD Interface Standard," 2003, IBR approved for §76.640.

(3) SCTE 41 2003 (formerly DVS 301): "POD Copy Protection System," 2003, IBR approved for §76.640.

(4) ANSI/SCTE 54 2003 (formerly DVS 241), "Digital Video Service Multiplex and Transport System Standard for Cable Television," 2003, IBR approved for §76.640.

(5) ANSI/SCTE 65 2002 (formerly DVS 234), "Service Information Delivered Out-of-Band for Digital Cable Television," 2002, IBR approved for §76.640.

(6) CEA-931-A, "Remote Control Command Pass-through Standard for Home Networking," 2003, IBR approved for §76.640.

(7) SCTE 40 2003 (formerly DVS 313), "Digital Cable Network Interface Standard," 2003, IBR approved for §76.640.

(8) ATSC A/65B: "ATSC Standard: Program and System Information Protocol for Terrestrial Broadcast and Cable (Revision B)," March 18, 2003, IBR approved for §76.640.

(9) EIA IS-132: "Cable Television Channel Identification Plan," 1994, IBR approved for §76.605.

[68 FR 66734, Nov. 28, 2003]

§ 76.605 Technical standards.

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(a) As of December 30, 1992, unless otherwise noted, the following requirements apply to the performance of a cable television system as measured at any subscriber terminal with a matched impedance at the termination point or at the output of the modulating or processing equipment (generally the headend) of the cable television system or otherwise as noted. The requirements are applicable to each NTSC or similar video downstream cable television channel in the system:

(1)(i) The cable television channels delivered to the subscriber's terminal shall be capable of being received and displayed by TV broadcast receivers used for off-the-air reception of TV broadcast signals, as authorized under part 73 of this chapter; and

(ii) Cable television systems shall transmit signals to subscriber premises equipment on frequencies in accordance with the channel allocation plan set forth in EIA IS-132: "Cable Television Channel Identification Plan" (incorporated by reference, see §76.602). This requirement is applicable on May 31, 1995, for new and re-built cable systems, and on June 30, 1997, for all cable systems.

(2) The aural center frequency of the aural carrier must be $4.5 \text{ MHz} \pm 5 \text{ kHz}$ above the frequency of the visual carrier at the output of the modulating or processing equipment of a cable television system, and at the subscriber terminal.

(3) The visual signal level, across a terminating impedance which correctly matches the internal impedance of the cable system as viewed from the subscriber terminal, shall not be less than 1 millivolt across an internal impedance of 75 ohms (0 dBmV). Additionally, as measured at the end of a 30 meter (100 foot) cable drop that is connected to the subscriber tap, it shall not be less than 1.41 millivolts across an internal impedance of 75 ohms (+3 dBmV). (At other impedance values, the minimum visual signal level, as viewed from the subscriber terminal, shall be the square root of 0.0133 (Z) millivolts and, as measured at the end

- of a 30 meter (100 foot) cable drop that is connected to the subscriber tap, shall be 2 times the square root of $0.00662(Z)$ millivolts, where Z is the appropriate impedance value.)
- (4) The visual signal level on each channel, as measured at the end of a 30 meter cable drop that is connected to the subscriber tap, shall not vary more than 8 decibels within any six-month interval, which must include four tests performed in six-hour increments during a 24-hour period in July or August and during a 24-hour period in January or February, and shall be maintained within:
- (i) 3 decibels (dB) of the visual signal level of any visual carrier within a 6 MHz nominal frequency separation;
- (ii) 10 dB of the visual signal level on any other channel on a cable television system of up to 300 MHz of cable distribution system upper frequency limit, with a 1 dB increase for each additional 100 MHz of cable distribution system upper frequency limit (e.g., 11 dB for a system at 301-400 MHz; 12 dB for a system at 401-500 MHz, etc.); and
- (iii) A maximum level such that signal degradation due to overload in the subscriber's receiver or terminal does not occur.
- (5) The rms voltage of the aural signal shall be maintained between 10 and 17 decibels below the associated visual signal level. This requirement must be met both at the subscriber terminal and at the output of the modulating and processing equipment (generally the headend). For subscriber terminals that use equipment which modulate and remodulate the signal (e.g., baseband converters), the rms voltage of the aural signal shall be maintained between 6.5 and 17 decibels below the associated visual signal level at the subscriber terminal.
- (6) The amplitude characteristic shall be within a range of ± 2 decibels from 0.75 MHz to 5.0 MHz above the lower boundary frequency of the cable television channel, referenced to the average of the highest and lowest amplitudes within these frequency boundaries.
- (i) Prior to December 30, 1999, the amplitude characteristic may be measured after a subscriber tap and before a converter that is provided and maintained by the cable operator.
- (ii) As of December 30, 1999, the amplitude characteristic shall be measured at the subscriber terminal.
- (7) The ratio of RF visual signal level to system noise shall be as follows:
- (i) From June 30, 1992, to June 30, 1993, shall not be less than 36 decibels.
- (ii) From June 30, 1993 to June 30, 1995, shall not be less than 40 decibels.
- (iii) As of June 30, 1995, shall not be less than 43 decibels.
- (iv) For class I cable television channels, the requirements of paragraphs (a)(7)(i), (a)(7)(ii) and (a)(7)(iii) of this section are applicable only to:
- (A) Each signal which is delivered by a cable television system to subscribers within the predicted Grade B contour for that signal;
- (B) Each signal which is first picked up within its predicted Grade B contour;
- (C) Each signal that is first received by the cable television system by direct video feed from a TV broadcast station, a low power TV station, or a TV translator station.

(8) The ratio of visual signal level to the rms amplitude of any coherent disturbances such as intermodulation products, second and third order distortions or discrete-frequency interfering signals not operating on proper offset assignments shall be as follows:

(i) The ratio of visual signal level to coherent disturbances shall not be less than 51 decibels for noncoherent channel cable television systems, when measured with modulated carriers and time averaged; and

(ii) The ratio of visual signal level to coherent disturbances which are frequency-coincident with the visual carrier shall not be less than 47 decibels for coherent channel cable systems, when measured with modulated carriers and time averaged.

(9) The terminal isolation provided to each subscriber terminal:

(i) Shall not be less than 18 decibels. In lieu of periodic testing, the cable operator may use specifications provided by the manufacturer for the terminal isolation equipment to meet this standard; and

(ii) Shall be sufficient to prevent reflections caused by open-circuited or short-circuited subscriber terminals from producing visible picture impairments at any other subscriber terminal.

(10) The peak-to-peak variation in visual signal level caused by undesired low frequency disturbances (hum or repetitive transients) generated within the system, or by inadequate low frequency response, shall not exceed 3 percent of the visual signal level. Measurements made on a single channel using a single unmodulated carrier may be used to demonstrate compliance with this parameter at each test location.

(11) As of June 30, 1995, the following requirements apply to the performance of the cable television system as measured at the output of the modulating or processing equipment (generally the headend) of the system:

(i) The chrominance-luminance delay inequality (or chroma delay), which is the change in delay time of the chrominance component of the signal relative to the luminance component, shall be within 170 nanoseconds.

(ii) The differential gain for the color subcarrier of the television signal, which is measured as the difference in amplitude between the largest and smallest segments of the chrominance signal (divided by the largest and expressed in percent), shall not exceed $\pm 20\%$.

(iii) The differential phase for the color subcarrier of the television signal which is measured as the largest phase difference in degrees between each segment of the chrominance signal and reference segment (the segment at the blanking level of 0 IRE), shall not exceed ± 10 degrees.

(12) As an exception to the general provision requiring measurements to be made at subscriber terminals, and without regard to the type of signals carried by the cable television system, signal leakage from a cable television system shall be measured in accordance with the procedures outlined in §76.609(h) and shall be limited as follows:

Signal leakage	Frequencies
limit	
Distance in (micro-volt/ meters (m) meter)	

(b) Cable television systems distributing signals by using methods such as nonconventional coaxial cable techniques, noncoaxial copper cable techniques, specialized coaxial cable and fiber optical cable hybridization techniques or specialized compression techniques or specialized receiving devices, and which, because of their basic design, cannot comply with one or more of the technical standards set forth in paragraph (a) of this section, may be permitted to operate; Provided, That an adequate showing is made pursuant to §76.7 which establishes that the public interest is benefited. In such instances, the Commission may prescribe special technical requirements to ensure that subscribers to such systems are provided with an equivalent level of good quality service.

Note 1:

Local franchising authorities of systems serving fewer than 1000 subscribers may adopt standards less stringent than those in §76.605(a). Any such agreement shall be reduced to writing and be associated with the system's proof-of-performance records.

Note 2:

For systems serving rural areas as defined in §76.5, the system may negotiate with its local franchising authority for standards less stringent than those in §§76.605(a)(3), 76.605(a)(7), 76.605(a)(8), 76.605(a)(10) and 76.605(a)(11). Any such agreement shall be reduced to writing and be associated with the system's proof-of-performance records.

Note 3:

The requirements of this section shall not apply to devices subject to the provisions of §§15.601 through 15.626.

Note 4:

Should subscriber complaints arise from a system failing to meet §76.605(a)(6) prior to December 30, 1999, the cable operator will be required to provide a converter that will allow the system to meet the standard immediately at the complaining subscriber's terminal. Further, should the problem be found to be system-wide, the Commission may order all converters on the system be changed to meet the standard.

Note 5:

Should subscriber complaints arise from a system failing to meet §76.605(a)(10), the cable operator will be required to remedy the complaint and perform test measurements on §76.605(a)(10) containing the full number of channels as indicated in §76.601(b)(2) at the complaining subscriber's terminal. Further, should the problem be found to be system-wide, the Commission may order that the full number of channels as indicated in §76.601(b)(2) be tested at all required locations for future proof-of-performance tests.

Note 6:

No State or franchising authority may prohibit, condition, or restrict a cable system's use of any type of subscriber equipment or any transmission technology.

[37 FR 3278, Feb. 12, 1972, as amended at 37 FR 13867, July 14, 1972; 40 FR 2690, Jan. 15, 1975; 40 FR 3296, Jan. 21, 1975; 41 FR 53028, Dec. 3, 1976; 42 FR 21782, Apr. 29, 1977; 47 FR 21503, May 18, 1982; 50 FR 52466, Dec. 24, 1985; 51 FR 1255, Jan. 10, 1986; 52 FR 22461, June 12, 1987; 57 FR 11002, Apr. 1, 1992; 57 FR 61010, Dec. 23, 1992; 58 FR 44952, Aug. 25, 1993; 59 FR 25342, May 16,

Less than and including 54 MHz, and over 216 MHz.....	15	30
Over 54 up to and including 216 MHz.....	20	3

1994; 61 FR 18510, Apr. 26, 1996; 61 FR 18978, Apr. 30, 1996; 65 FR 53616, Sept. 5, 2000; 69 FR 2849, Jan. 21, 2004]

§ 76.606 Closed captioning.

[↑ top](#)

(a) As of June 30, 1992, the operator of each cable television system shall not take any action to remove or alter closed captioning data contained on line 21 of the vertical blanking interval.

(b) As of July 1, 1993, the operator of each cable television system shall deliver intact closed captioning data contained on line 21 of the vertical blanking interval, as it arrives at the headend or from another

originator source, to subscriber terminals and (when so delivered to the cable system) in a format that can be recovered and displayed by decoders meeting §15.119 of this chapter.

[57 FR 11003, Apr. 1, 1992]

§ 76.609 Measurements.

[↑ top](#)

(a) Measurements made to demonstrate conformity with the performance requirements set forth in §§76.601 and 76.605 shall be made under conditions which reflect system performance during normal

operations, including the effect of any microwave relay operated in the Cable Television Relay (CARs)

Service intervening between pickup antenna and the cable distribution network. Amplifiers shall be

operated at normal gains, either by the insertion of appropriate signals or by manual adjustment. Special

signals inserted in a cable television channel for measurement purposes should be operated at levels

approximating those used for normal operation. Pilot tones, auxiliary or substitute signals, and

non-television signals normally carried on the cable television system should be operated at normal levels to the extent possible. Some exemplary, but not mandatory, measurement procedures are set forth in this

section.

(b) When it may be necessary to remove the television signal normally carried on a cable television channel in order to facilitate a performance measurement, it will be permissible to disconnect the antenna which serves the channel under measurement and to substitute therefor a matching resistance termination. Other antennas and inputs should remain connected and normal signal levels should be maintained on other channels.

(c) As may be necessary to ensure satisfactory service to a subscriber, the Commission may require additional tests to demonstrate system performance or may specify the use of different test procedures.

(d) The frequency response of a cable television channel may be determined by one of the following methods, as appropriate:

(1) By using a swept frequency or a manually variable signal generator at the sending end and a calibrated attenuator and frequency-selective voltmeter at the subscriber terminal; or

(2) By using either a multiburst generator or vertical interval test signals and either a modulator or processor at the sending end, and by using either a demodulator and either an oscilloscope display or a waveform monitor display at the subscriber terminal.

(e) System noise may be measured using a frequency-selective voltmeter (field strength meter) which has been suitably calibrated to indicate rms noise or average power level and which has a known bandwidth. With the system operating at normal level and with a properly matched resistive termination substituted for the antenna, noise power indications at the subscriber terminal are taken in successive increments of

frequency equal to the bandwidth of the frequency-selective voltmeter, summing the power indications to obtain the total noise power present over a 4 MHz band centered within the cable television channel. If it is established that the noise level is constant within this bandwidth, a single measurement may be taken which is corrected by an appropriate factor representing the ratio of 4 MHz to the noise bandwidth of the frequency-selective voltmeter. If an amplifier is inserted between the frequency-selective voltmeter and the subscriber terminal in order to facilitate this measurement, it should have a bandwidth of at least 4 MHz and appropriate corrections must be made to account for its gain and noise figure. Alternatively, measurements made in accordance with the NCTA Recommended Practices for Measurements on Cable Television Systems, 2nd edition, November 1989, on noise measurement may be employed.

(f) The amplitude of discrete frequency interfering signals within a cable television channel may be determined with either a spectrum analyzer or with a frequency-selective voltmeter (field strength meter), which instruments have been calibrated for adequate accuracy. If calibration accuracy is in doubt, measurements may be referenced to a calibrated signal generator, or a calibrated variable attenuator, substituted at the point of measurement. If an amplifier is used between the subscriber terminal and the measuring instrument, appropriate corrections must be made to account for its gain.

(g) The terminal isolation between any two terminals in the cable television system may be measured by applying a signal of known amplitude to one terminal and measuring the amplitude of that signal at the other terminal. The frequency of the signal should be close to the midfrequency of the channel being tested. Measurements of terminal isolation are not required when either:

(1) The manufacturer's specifications for subscriber tap isolation based on a representative sample of no less than 500 subscribers taps or

(2) Laboratory tests performed by or for the operator of a cable television system on a representative sample of no less than 50 subscriber taps, indicates that the terminal isolation standard of §76.605(a)(9) is met.

To demonstrate compliance with §76.605(a)(9), the operator of a cable television system shall attach either such manufacturer's specifications or laboratory measurements as an exhibit to each proof-of-performance record.

(h) Measurements to determine the field strength of the signal leakage emanated by the cable television system shall be made in accordance with standard engineering procedures. Measurements made on frequencies above 25 MHz shall include the following:

(1) A field strength meter of adequate accuracy using a horizontal dipole antenna shall be employed.

(2) Field strength shall be expressed in terms of the rms value of synchronizing peak for each cable television channel for which signal leakage can be measured.

(3) The resonant half wave dipole antenna shall be placed 3 meters from and positioned directly below the system components and at 3 meters above ground. Where such placement results in a separation of less than 3 meters between the center of the dipole antenna and the system components, or less than 3 meters between the dipole and ground level, the dipole shall be repositioned to provide a separation of 3 meters from the system components at a height of 3 meters or more above ground.

(4) The horizontal dipole antenna shall be rotated about a vertical axis and the maximum meter reading shall be used.

(5) Measurements shall be made where other conductors are 3 or more meters (10 or more feet) away from the measuring antenna.

(f) For systems using cable traps and filters to control the delivery of specific channels to the subscriber terminal, measurements made to determine compliance with §76.605(a) (5) and (6) may be performed at the location immediately prior to the trap or filter for the specific channel. The effects of these traps or filters, as certified by the system engineer or the equipment manufacturer, must be attached to each proof-of-performance record.

(j) Measurements made to determine the differential gain, differential phase and the chrominance-luminance delay inequality (chroma delay) shall be made in accordance with the NCTA Recommended Practices for Measurements on Cable Television Systems, 2nd edition, November 1989, on these parameters.

[37 FR 3278, Feb. 12, 1972, as amended at 37 FR 13867, July 14, 1972; 41 FR 10067, Mar. 9, 1976; 42 FR 21782, Apr. 29, 1977; 49 FR 45441, Nov. 16, 1984; 57 FR 11004, Apr. 1, 1992; 57 FR 61011, Dec. 23, 1992; 58 FR 44952, Aug. 25, 1993]

§ 76.610 Operation in the frequency bands 108-137 and 225-400 MHz—scope of application.

↑ top

The provisions of §76.611 (effective July 1, 1990), 76.612, 76.613, 76.614 and 76.1803 and 76.1804 are applicable to all cable television systems transmitting carriers or other signal components carried at an average power level equal to or greater than 10-4 watts across a 25 kHz bandwidth in any 160 microsecond period, at any point in the cable distribution system in the frequency bands 108-137 and 225-400 MHz for any purpose. For grandfathered systems, refer to §§76.618 and 76.619.

Note

1: See the provisions of §76.616 for cable operation near certain aeronautical and marine emergency radio frequencies.

Note 2:

Until January 1, 1990, the band 136-137 MHz is allocated as an alternative allocation to the space operation, meteorological-satellite service and the space research service on a primary basis. After January 1, 1990, the space service will become secondary to aeronautical mobile service radio. Until January 1, 1990, the band 136 to 137 MHz is excluded from the rule sections regarding protection of aeronautical frequencies.

[50 FR 29399, July 19, 1985, as amended at 65 FR 53616, Sept. 5, 2000]

§ 76.611 Cable television basic signal leakage performance criteria.

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(a) No cable television system shall commence or provide service in the frequency bands 108-137 and 225-400 MHz unless such systems is in compliance with one of the following cable television basic signal leakage performance criteria:

(1) prior to carriage of signals in the aeronautical radio bands and at least once each calendar year, with no more than 12 months between successive tests thereafter, based on a sampling of at least 75% of the cable strand, and including any portion of the cable system which are known to have or can reasonably be expected to have less leakage integrity than the average of the system, the cable operator demonstrates compliance with a cumulative signal leakage index by showing either that (i) $10 \log 13000$ is equal to or less than - 7 or (ii) $10 \log 100$ is equal to or less than 64, using one of the following formula:

$$I_{3000} = \frac{1}{1} \sum_{i=1}^n \frac{E_i}{R_i^2} \cdot I_{\infty} = \frac{1}{1} \sum_{i=1}^n \frac{E_i}{R_i^2}$$

where:

$$R_i^2 = r_i^2 + (3000)^2$$

r_i is the distance (in meters) between the leakage source and the center of the cable television system; T is the fraction of the system cable length actually examined for leakage sources and is equal to the strand kilometers (strand miles) of plant tested divided by the total kilometers (strand miles) in the plant; R_i is the slant height distance (in meters) from leakage source i to a point 3000 meters above the center of the cable television system; E_i is the electric field strength in microvolts per meter (μV/m) measured pursuant to §76.609(h) 3 meters from the leak i ; and n is the number of leaks found of field strength equal to or greater than 50 μV/m pursuant to Section 76.609(h).

The sum is carried over all leaks detected in the cable examined; or

(2) prior to carriage of signals in the aeronautical radio bands and at least once each calendar year, with no more than 12 months between successive tests thereafter, the cable operator demonstrates by measurement in the airspace that at no point does the field strength generated by the cable system exceed 10 microvolts per meter (μV/m) RMS at an altitude of 450 meters above the average terrain of the cable system. The measurement system (including the receiving antenna) shall be calibrated against a known field of 10 μV/m RMS produced by a well characterized antenna consisting of orthogonal resonant dipoles, both parallel to and one quarter wavelength above the ground plane of a diameter of two meters or more at ground level. The dipoles shall have centers collocated and be excited 90 degrees apart. The half-power bandwidth of the detector shall be 25 kHz. If an aeronautical receiver is used for this purpose it shall meet the standards of the Radio Technical Commission for Aeronautics (RTCA) for aeronautical communications receivers. The aircraft antenna shall be horizontally polarized. Calibration shall be made in the community unit or, if more than one, in any of the community units of the physical system within a reasonable time period to performing the measurements. If data is recorded digitally the 90th percentile level of points recorded over the cable system shall not exceed 10 μV/m RMS; if analog recordings is used the peak values of the curves, when smoothed according to good engineering practices, shall not exceed 10 μV/m RMS.

(b) In paragraphs (a)(1) and (a)(2) of this section the unmodulated test signal used on the cable plant shall: (1) Be within the VHF aeronautical band 108-137 MHz or any other frequency in which the results can be correlated to the VHF aeronautical band and (2) have an average power level equal to the average power level of the strongest cable television carrier on the system.

(c) In paragraph (a)(1) and (2) of this section, if a modulated test signal is used, the test signal and detector technique must, when considered together, yield the same result as though an unmodulated test signal were used in conjunction with a detection technique which would yield the RMS value of said unmodulated carrier.

(d) If a sampling of at least 75% of the cable strand (and including any portions of the cable system which are known to have or can reasonably be expected to have less leakage integrity than the average of the system) as described in paragraph (a)(1) cannot be obtained by the cable operator or is otherwise not reasonably feasible, the cable operator shall perform the airspace measurements described in paragraph (a)(2).

(e) Prior to providing service to any subscriber on a new section of cable plant, the operator shall show compliance with either: (1) The basic signal leakage criteria in accordance with paragraph (a)(1) or (a)(2) of this section for the entire plant in operation or (2) a showing shall be made indicating that no individual leak in the new section of the plant exceeds 20 μV/m at 3 meters in accordance with §76.609 to the Rules.

(f) Notwithstanding paragraph (a) of this section, a cable operator shall be permitted to operate on any frequency which is offset pursuant to §76.612 in the frequency band 108–137 MHz for the purpose of demonstrating compliance with the cable television basic signal leakage performance criteria.

[50 FR 29399, July 19, 1985, as amended at 53 FR 2499, Jan. 28, 1988; 53 FR 5684, Feb. 25, 1988; 58 FR 44952, Aug. 25, 1993]

§ 76.612 Cable television frequency separation standards.

[↑ top](#)

All cable television systems which operate in the frequency bands 108–137 and 225–400 MHz shall comply with the following frequency separation standards:

(a) In the aeronautical radiocommunication bands 118–137, 225–328.6 and 335.4–400 MHz, the frequency of all carrier signals or signal components carried at an average power level equal to or greater than 10–4 watts in a 25 kHz bandwidth in any 160 microsecond period must operate at frequencies offset from certain frequencies which may be used by aeronautical radio services operated by Commission licensees or by the United States Government or its Agencies. The aeronautical frequencies from which offsets must be maintained are those frequencies which are within one of the aeronautical bands defined in this subparagraph, and when expressed in MHz and divided by 0.025 yield an integer. The offset must meet one of the following two criteria:

(1) All such cable carriers or signal components shall be offset by 12.5 kHz with a frequency tolerance of ± 5 kHz; or

(2) The fundamental frequency from which the visual carrier frequencies are derived by multiplication by an integer number which shall be 6,0003 MHz with a tolerance of ± 1 Hz (Harmonically Related Carrier (HRC) comb generators only).

(b) In the aeronautical radiocommunication bands 108–118 and 328.6–335.4 MHz, the frequency of all carrier signals or signal components carrier at an average power level equal to or greater than 10–4 watts in a 25 kHz bandwidth in any 160 microsecond period shall be offset by 25 kHz with a tolerance of ± 5 kHz. The aeronautical radiocommunication frequencies from which offsets must be maintained are defined as follows:

(1) Within the aeronautical band 108–118 MHz when expressed in MHz and divided by 0.025 yield an even integer.

(2) Within the band 328.6–335.4 MHz, the radiocommunication glide path channels are listed in Section 87.501 of the Rules.

Note:

The HRC system, as described above, will meet this requirement in the 328.6–335.4 MHz navigation glide path band. Those Incrementally Related Carriers (IRC) systems, with comb generator reference frequencies set at certain odd multiples equal to or greater than 3 times the 0.0125 MHz aeronautical communications band offset, e.g. $(6n + 1.250 \pm 0.0375)$ MHz, may also meet the 25 kHz offset requirement in the navigation glide path band.

[50 FR 29400, July 19, 1985]

§ 76.613 Interference from a multi-channel video programming distributor (MVPD).

[↑ top](#)

(a) Harmful interference is any emission, radiation or induction which endangers the functioning of a radionavigation service or of other safety services or seriously degrades, obstructs or repeatedly interrupts a radiocommunication service operating in accordance with this chapter.

(b) An MFPD that causes harmful interference shall promptly take appropriate measures to eliminate the harmful interference.

(c) If harmful interference to radio communications involving the safety of life and protection of property cannot be promptly eliminated by the application of suitable techniques, operation of the offending MFPD or appropriate elements thereof shall immediately be suspended upon notification by the District Director and/or Resident Agent of the Commissioner's local field office, and shall not be resumed until the interference has been eliminated to the satisfaction of the District Director and/or Resident Agent. When authorized by the District Director and/or Resident Agent, short test operations may be made during the period of suspended operation to check the efficacy of remedial measures.

(d) The MFPD may be required by the District Director and/or Resident Agent to prepare and submit a report regarding the cause(s) of the interference, corrective measures planned or taken, and the efficacy of the remedial measures.

[42 FR 41296, Aug. 16, 1977, as amended at 62 FR 61031, Nov. 14, 1997]

§ 76.614 Cable television system regular monitoring.

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Cable television operators transmitting carriers in the frequency bands 108–137 and 225–400 MHz shall provide for a program of regular monitoring for signal leakage by substantially covering the plant every three months. The incorporation of this monitoring program into the daily activities of existing service personnel in the discharge of their normal duties will generally cover all portions of the system and will therefore meet this requirement. Monitoring equipment and procedures utilized by a cable operator shall be adequate to detect a leakage source which produces a field strength in these bands of 20 uV/m or greater at a distance of 3 meters. During regular monitoring, any leakage source which produces a field strength of 20 uV/m or greater at a distance of 3 meters in the aeronautical radio frequency bands shall be noted and such leakage sources shall be repaired within a reasonable period of time.

Note 1 to §76.614:

Section 76.1706 contains signal leakage recordkeeping requirements applicable to cable operators.

[65 FR 53616, Sept. 5, 2000]

§ 76.616 Operation near certain aeronautical and marine emergency radio frequencies.

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The transmission of carriers or other signal components capable of delivering peak power levels equal to or greater than 10-5 watts at any point in a cable television system is prohibited within 100 kHz of the frequency 121.5 MHz, and is prohibited within 50 kHz of the two frequencies 156.8 MHz and 243.0 MHz.

[50 FR 29401, July 19, 1985]

§ 76.617 Responsibility for interference.

[↑ top](#)

Interference resulting from the use of cable system terminal equipment (including subscriber terminal, input selector switch and any other accessories) shall be the responsibility of the cable system terminal

equipment operator in accordance with the provisions of part 15 of this chapter; provided, however, that the operator of a cable system terminal equipment is connected shall be responsible for detecting and eliminating any signal leakage where that leakage would cause interference outside the subscriber's premises and/or would cause the cable system to exceed the Part 76 signal leakage requirements. In cases where excessive signal leakage occurs, the cable operator shall be required only to discontinue service to the subscriber until the problem is corrected.

[53 FR 46619, Nov. 18, 1989]

§ 76.618 Grandfathering.

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Cable television systems are permitted to use aeronautical frequencies which were requested or granted for use by November 30, 1984, under Section 76.619 of the Rules until July 1, 1990.

[50 FR 29401, July 19, 1985]

§ 76.619 Grandfathered Operation in the frequency bands 108-136 and 225-400 MHz.

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All cable television systems operating in a grandfathered status under §76.618 of the Rules and transmitting carriers or other signal components capable of delivering peak power equal to or greater than 10-5 watts at any point in the cable system in the frequency bands 108-136 and 225-400 MHz for any purpose are subject to the following requirements:

(a) The operator of the cable system shall notify the Commission annually of all signals carried in these bands, noting the type of information carried by the signal (television, aural, or pilot carrier and system control, etc.). The timely filing of FCC Form 325, Schedule 2, will meet this requirement.

(b) The operator of the cable system shall notify the Commission of the proposed extension of the system radius in these bands. Notification shall include carrier and subcarrier frequencies, types of modulation, the previously notified geographical coordinates, the new system radius and the maximum peak power occurring at any location in the cable distribution system. No system shall extend its radius in these bands without prior Commission authorization.

(c) The operator of the cable system shall maintain at its local office a current listing of all signals carried in these bands, noting carrier and subcarrier frequencies, types of modulation, and maximum peak power which occurs at any location within the cable distribution system.

(d) The operator of the system shall provide for regular monitoring of the cable system for signal leakage covering all portions of the cable system at least once each calendar year. Monitoring equipment and procedures shall be adequate to detect leakage sources which produce field strengths in these bands of 20 microvolts per meter at a distance of 3 meters. The operator shall maintain a log showing the date and location of each leakage source identified, the date on which the leakage was eliminated, and the probable cause of the leakage. The log shall be kept on file for a period of two (2) years, and shall be made to authorized representatives of the Commission on request.

(e) All carrier signals or signal components capable of delivering peak power equal to or greater than 10-5 watts must be operated at frequencies offset from aeronautical radio services operated by Commission licensees or by the United States Government or its agencies within 111 km (60 nautical miles) of any portion of the cable system as given in paragraph (f) of this section. (The limit of 111 km may be increased by the Commission in cases of "extended service volumes" as defined by the Federal Aviation Administration or other federal government agency for low altitude radio navigation or communication

services), if an operator of a cable system is notified by the Commission that a change in operation of an aeronautical radio service will place the cable system in conflict with any of the offset criteria, the cable system operator is responsible for eliminating such conflict within 30 days of notification.

(f) A minimum frequency offset between the nominal carrier frequency of an aeronautical radio service qualifying under paragraph (d) of this Section and the nominal frequency of any cable system carrier or signal component capable of delivering peak power equal to or greater than 10-5 watts shall be maintained or exceeded at all times. The minimum frequency offsets are as follows:

Frequencies	Minimum frequency offsets
108-118 MHz	(50+T) kHz.
328.6-335.4 MHz
108-136 MHz
225-328.6 MHz	(100+T) kHz.
335.4-400 MHz

In this table, T is the absolute value of the frequency tolerance of the cable television signal. The actual frequency tolerance will depend on the equipment and operating procedures of the cable system, but in no case shall the frequency tolerance T exceed ± 25 kHz in the bands 108-136 and 225-400 MHz.

[50 FR 29401, July 19, 1985]

§ 76.620 Non-cable multi-channel video programming distributors (MVPDs).

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Sections 76.605(a)(12), 76.610, 76.611, 76.612, 76.614, 76.1803, 76.1804, 76.616, and 76.617 shall apply to all non-cable MVPDs. Exception: Non-cable MVPDs serving less than 1000 subscribers and less than 1000 units do not have to comply with §76.1804(g).

[68 FR 27003, May 19, 2003]

§ 76.630 Compatibility with consumer electronics equipment.

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(a) Cable system operators shall not scramble or otherwise encrypt signals carried on the basic service tier. Requests for waivers of this prohibition must demonstrate either a substantial problem with theft of basic tier service or a strong need to scramble basic signals for other reasons. As part of this showing, cable operators are required to notify subscribers by mail of waiver requests. The notice to subscribers must be mailed no later than thirty calendar days from the date the request waiver was filed with the Commission, and cable operators must inform the Commission in writing, as soon as possible, of that notification date. The notification to subscribers must state:

On (date of waiver request was filed with the Commission), (cable operator's name) filed with the Federal Communications Commission a request for waiver of the rule prohibiting scrambling of channels on the basic tier of service. 47 CFR 76.630(a). The request for waiver states (a brief summary of the waiver request). A copy of the request for waiver is on file for public inspection at (the address of the cable operator's local place of business).

Individuals who wish to comment on this request for waiver should mail comments to the Federal Communications Commission by no later than 30 days from (the date the notification was mailed to subscribers). Those comments should be addressed to the: Federal Communications Commission, Media Bureau, Washington, DC 20554, and should include the name of the cable operator to whom the comments are applicable. Individuals should also send a copy of their comments to (the cable operator at its local place of business). Cable operators may file comments in reply no later than 7 days from the date subscriber comments must be filed.

(b) Cable system operators that provide their subscribers with cable system terminal devices and other customer premises equipment that incorporates remote control capability shall permit the remote operation of such devices with commercially available remote control units or otherwise take no action that would prevent the devices from being operated by a commercially available remote control unit. Cable system operators are advised that this requirement obliges them to actively enable the remote control functions of customer premises equipment where those functions do not operate without a special activation procedure. Cable system operators may, however, disable the remote control functions of a subscriber's customer premises equipment where requested by the subscriber.

Note 1 to §76.630:
The provisions of paragraphs (a) and (b) of this section are applicable July 31, 1994, and June 30, 1994, respectively.

Note 2 to §76.630:
§76.1621 contains certain requirements pertaining to a cable operator's offer to supply subscribers with special equipment that will enable the simultaneous reception of multiple signals.

Note 3 to §76.630:
§76.1622 contains certain requirements pertaining to the provision of a consumer education program on compatibility matters to subscribers.

Note 4 to §76.630:
Cable operators must comply with the notification requirements pertaining to the waiver of the prohibition against scrambling and encryption, and comply with the public file requirement in connection with such waiver.

[59 FR 25342, May 16, 1994, as amended at 61 FR 18510, Apr. 26, 1996; 65 FR 53616, Sept. 5, 2000; 67 FR 1650, Jan. 14, 2002; 67 FR 13235, Mar. 21, 2002]

§ 76.640 Support for unidirectional digital cable products on digital cable systems.

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(a) The requirements of this section shall apply to digital cable systems. For purposes of this section, digital cable systems shall be defined as a cable system with one or more channels utilizing QAM modulation for transporting programs and services from its headend to receiving devices. Cable systems that only pass through 8 VSB broadcast signals shall not be considered digital cable systems.

(b) No later than July 1, 2004, cable operators shall support unidirectional digital cable products, as defined in §15.123 of this chapter, through the provisioning of Point of Deployment modules (PODs) and services, as follows:

(1) Digital cable systems with an activated channel capacity of 750 MHz or greater shall comply with the following technical standards and requirements:

(i) SCTE 40 2003 (formerly DVS 313): "Digital Cable Network Interface Standard" (incorporated by reference, see §76.602), provided however that with respect to Table B.11, the Phase Noise requirement shall be - 86 dB/Hz, and also provided that the "transit delay for most distant customer" requirement in Table B.3 is not mandatory.

(ii) ANSI/SCTE 65 2002 (formerly DVS 234): "Service Information Delivered Out-of-Band for Digital Cable Television" (incorporated by reference, see §76.602), provided however that the referenced Source Name Subtable shall be provided for Profiles 1, 2, and 3.

(iii) ANSI/SCTE 54 2003 (formerly DVS 241): "Digital Video Service Multiplex and Transport System Standard for Cable Television" (incorporated by reference, see §76.602).

(iv) For each digital transport stream that includes one or more services carried in-the-clear, such transport stream shall include virtual channel data in-band in the form of ATSC A/65B: "ATSC Standard: Program and System Information Protocol for Terrestrial Broadcast and Cable (Revision B)" (incorporated by reference, see §76.602), when available from the content provider. With respect to in-band transport:

(A) The data shall, at minimum, describe services carried within the transport stream carrying the PSIP data itself;

(B) PSIP data describing a twelve-hour time period shall be carried for each service in the transport stream. This twelve-hour period corresponds to delivery of the following event information tables: EIT-0, -1, -2 and -3;

(C) The format of event information data shall conform to ATSC A/65B: "ATSC Standard: Program and System Information Protocol for Terrestrial Broadcast and Cable (Revision B)" (incorporated by reference, see §76.602);

(D) Each channel shall be identified by a one- or two-part channel number and a textual channel name; and

(E) The total bandwidth for PSIP data may be limited by the cable system to 80 kbps for a 27 Mbits multiplex and 115 kbps for a 38.8 Mbits multiplex.

(V) When service information tables are transmitted out-of-band for scrambled services:

(A) The data shall, at minimum, describe services carried within the transport stream carrying the PSIP data itself;

(B) A virtual channel table shall be provided via the extended channel interface from the POD module. Tables to be included shall conform to ANSI/SCTE 65 2002 (formerly DVS 234): "Service Information Delivered Out-of-Band for Digital Cable Television" (incorporated by reference, see §76.602).

(C) Event information data when present shall conform to ANSI/SCTE 65 2002 (formerly DVS 234): "Service Information Delivered Out-of-Band for Digital Cable Television" (incorporated by reference, see §76.602) (profiles 4 or higher).

(D) Each channel shall be identified by a one- or two-part channel number and a textual channel name; and

(E) The channel number identified with out-of-band signaling information data should match the channel identified with in-band PSIP data for all unscrambled in-the-clear services.

(2) All digital cable systems shall comply with:

(i) SCTE 28 2003 (formerly DVS 295): "Host-POD Interface Standard" (incorporated by reference, see §76.602).
(ii) SCTE 41 2003 (formerly DVS 301): "POD Copy Protection System" (incorporated by reference, see §76.602).

(3) Cable operators shall ensure, as to all digital cable systems, an adequate supply of PODs that comply with the standards specified in paragraph (b)(2) of this section to ensure convenient access to such PODs by customers. Without limiting the foregoing, cable operators may provide more advanced PODs (i.e., PODs that are based on successor standards to those specified in paragraph (b)(2) of this section) to customers whose unidirectional digital cable products are compatible with the more advanced PODs.

(4) Cable operators shall:

(i) Effective April 1, 2004, upon request of a customer, replace any leased high definition set-top box, which does not include a functional IEEE 1394 interface, with one that includes a functional IEEE 1394 interface or upgrade the customer's set-top box by download or other means to ensure that the IEEE 1394 interface is functional.

(ii) Effective July 1, 2005, include both a DVI or HDMI interface and an IEEE 1394 interface on all high definition set-top boxes acquired by a cable operator for distribution to customers.

(iii) Ensure that these cable operator-provided high definition set-top boxes shall comply with ANSIS/SCTE 26 2001 (formerly DVS 194): "Home Digital Network Interface Specification with Copy Protection" (incorporated by reference, see §76.602), with transmission of bit-mapped graphics optional, and shall support the CEA-931-A: "Remote Control Command Pass-through Standard for Home Networking" (incorporated by reference, see §76.602), pass through control commands: tune function, mute function, and restore volume function. In addition these boxes shall support the power control commands (power on, power off, and status inquiry) defined in A/V-C Digital Interface Command Set General Specification Version 4.0 (as referenced in ANSIS/SCTE 26 2001 (formerly DVS 194): "Home Digital Network Interface Specification with Copy Protection" (incorporated by reference, see §76.602)).

[68 FR 66734, Nov. 28, 2003]

Subpart L—Cable Television Access

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§ 76.701 Leased access channels.

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(a) Notwithstanding 47 U.S.C. 532(b)(2) (Communications Act of 1934, as amended, section 612), a cable operator, in accordance with 47 U.S.C. 532(h) (Cable Consumer Protection and Competition Act of 1992, section 10(a)), may adopt and enforce prospectively a written and published policy of prohibiting programming which, it reasonably believes, describes or depicts sexual or excretory activities or organs in a patently offensive manner as measured by contemporary community standards.

(b) A cable operator may refuse to transmit any leased access program or portion of a leased access program that the operator reasonably believes contains obscenity, indecency or nudity.

Note to paragraph

(b): "Nudity" in paragraph (b) is interpreted to mean nudity that is obscene or indecent.

[62 FR 28373, May 23, 1997, as amended at 64 FR 35950, July 2, 1999]

(attached)

Exhibit B - Cable Television Service Area

Exhibit C - Municipal & School Buildings

Municipal:

1. Bristol Town Hall - 230 Lake Street
2. Bristol Police Station - 230 Lake Street
3. Bristol Fire Department - 85 Lake Street
4. Bristol Public Library - Lake Street
5. Bristol Senior Center - 15 Church Street
6. Bristol Community Center - 30 N Main Street
7. Bristol Sewer Treatment Plant - Ayers Island Road
8. Bristol Highway Garage - Ayers Island Road

School:

1. SAU 4 Office - 10 N Main Street
2. Bristol Elementary School - 24 N Main Street
3. Bristol Middle School - 27 Lake Street
4. Newfound High School - 150 Newfound Road