


Certification Requirements for BTOP

U.S. Department of Commerce
Broadband Technology Opportunities Program

I certify that I am the duly authorized representative of the applicant organization, and that I have been authorized to submit the attached application on its behalf. A copy of the applicant organization's authorization for me to submit this application as its official representative is on file in the applicant's office, and I am identified as the applicant organization's Authorized Organization Representative (AOR) in the Central Contractor Registration database. By signing this certification, I certify that the statements contained in the application are true, complete, and accurate to the best of my knowledge, and that if an award is made, the applicant organization will comply with all applicable award terms and conditions.

8/17/09

(Date)



(Authorized Representative's Signature)

Tad Deriso

Name:

President and CEO of Mid-Atlantic Broadband Cooperative

Title:

ASSURANCES - CONSTRUCTION PROGRAMS

OMB Approval No. 4040-0009
Expiration Date 07/30/2010

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0042), Washington, DC 20503.


PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the Awarding Agency. Further, certain Federal assistance awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance, and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project costs) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, the right to examine all records, books, papers, or documents related to the assistance; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will not dispose of, modify the use of, or change the terms of the real property title, or other interest in the site and facilities without permission and instructions from the awarding agency. Will record the Federal awarding agency directives and will include a covenant in the title of real property acquired in whole or in part with Federal assistance funds to assure non-discrimination during the useful life of the project.
4. Will comply with the requirements of the assistance awarding agency with regard to the drafting, review and approval of construction plans and specifications.
5. Will provide and maintain competent and adequate engineering supervision at the construction site to ensure that the complete work conforms with the approved plans and specifications and will furnish progress reports and such other information as may be required by the assistance awarding agency or State.
6. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
7. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
8. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
9. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
10. Will comply with all Federal statutes relating to non-discrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681 1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.

11. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal and federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
12. Will comply with the provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.
13. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333) regarding labor standards for federally-assisted construction subagreements.
14. Will comply with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
15. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
16. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
17. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq).
18. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-1 33, "Audits of States, Local Governments, and Non-Profit Organizations."
19. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

*SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL 	*TITLE President and CEO of MBC
*APPLICANT ORGANIZATION Mid-Atlantic Broadband Cooperative	*DATE SUBMITTED August 10, 2009



HUNTON & WILLIAMS LLP
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FAX 804 • 788 • 8218

August 13, 2009

Mr. Jonathan Adelstein
Administrator
Rural Utilities Service
U. S. Department of Agriculture
Washington, D. C. 20250-1500

Mr. Lawrence E. Strickling
Assistant Secretary
National Telecommunications and Information Administration
U.S. Department of Commerce
Washington, D.C. 20230

Re: Mid-Atlantic Broadband Cooperative
Broadband Technology Opportunities Program

Dear Sirs:

We are Virginia counsel for Mid-Atlantic Broadband Cooperative (the “Applicant”). Our opinion is being delivered at the Applicant’s request in connection with its ability to apply to the Broadband Technology Opportunities Program (“BTOP”) and in our review of the application materials for the award of a grant agreement, as referenced in the Notice of Funds Availability.

For purposes of the opinions expressed below, we have assumed (i) the authenticity of all documents submitted to us as originals, (ii) the conformity to the originals of all documents submitted as certified or photostatic copies and the authenticity of the originals thereof, (iii) the legal capacity of natural persons, (iv) the genuineness of signatures and (v) the due authorization, execution and delivery of all documents by all parties and the validity, binding effect and enforceability thereof (other than the Applicant to the extent of the express opinions set forth below).



Mr. Jonathan Adelstein
Mr. Lawrence E. Strickling
August 13, 2009
Page 2

As to factual matters, we have relied upon representations included in the application materials for the award of the BTOP grant, upon certificates of officers of the Applicant, and upon certificates of public officials. Whenever the phrase “to our knowledge” or “known to us” is used herein, it refers to the actual knowledge of the attorneys of this firm involved in the representation of the Applicant in this transaction without independent investigation.

Based upon the foregoing and such other information and documents as we have considered necessary for the purposes hereof, we are of the opinion that:

1. The Applicant is a duly organized and validly existing non-stock cooperative under the laws of the Commonwealth of Virginia; and
2. The Applicant has corporate power: (a) to execute and deliver the application for the award of the grant agreement; and (b) to execute and deliver the grant agreement, and perform all acts required to be done by it pursuant to such agreement as contemplated in said application materials, provided that the grant agreement does not require the Applicant to exercise any power or engage in any activity that would cause it to lose its exempt status from federal taxation as a corporation described in § 501(c)(12) of the Internal Revenue Code of 1986.

To our knowledge and based upon certificates of officers of the Applicant, without having conducted a search of the courts, judgment indices or land records of any jurisdiction, we confirm that (i) no legal proceedings have been instituted or are pending against the Applicant, the outcome of which would materially and adversely affect the Applicant's ability to perform the duties under the grant agreement as contemplated by the application materials, and (ii) there are no judgments against the Applicant which would materially and adversely affect the Applicant's ability to perform the duties under the grant agreement as contemplated by the application materials.

The opinions expressed in this letter are as of the date hereof. We assume no obligation to update, revise or supplement this letter, nor to communicate further or



Mr. Jonathan Adelstein
Mr. Lawrence E. Strickling
August 13, 2009
Page 3

advise you with respect to any matter covered in this letter or any change, development, occurrence, circumstance or condition in respect of any such matter.

We do not purport to express an opinion on any law other than those of the Commonwealth of Virginia and the United States of America.

We are furnishing this letter to you solely in connection with the Applicant's application to the BTOP. This letter is not to be used or relied upon by any other person or for any other purpose, nor may this opinion or copies hereof be furnished to a third party, filed with other government agencies, quoted, cited or referred to without our prior written consent.

Sincerely,

A handwritten signature in cursive script that reads "Hunt & Williams LLP".

Hunton & Williams LLP

07917 / 08364 / 09259

CERTIFICATION REGARDING LOBBYING

Applicants should also review the instructions for certification included in the regulations before completing this form. Signature on this form provides for compliance with certification requirements under 15 CFR Part 28, "New Restrictions on Lobbying." The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of Commerce determines to award the covered transaction, grant, or cooperative agreement.

LOBBYING

As required by Section 1352, Title 31 of the U.S. Code, and implemented at 15 CFR Part 28, for persons entering into a grant, cooperative agreement or contract over \$100,000 or a loan or loan guarantee over \$150,000 as defined at 15 CFR Part 28, Sections 28.105 and 28.110, the applicant certifies that to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure occurring on or before October 23, 1996, and of not less than \$11,000 and not more than \$110,000 for each such failure occurring after October 23, 1996.

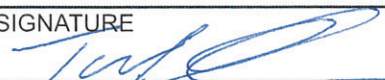
Statement for Loan Guarantees and Loan Insurance

The undersigned states, to the best of his or her knowledge and belief, that:

In any funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this commitment providing for the United States to insure or guarantee a loan, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

Submission of this statement is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required statement shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure occurring on or before October 23, 1996, and of not less than \$11,000 and not more than \$110,000 for each such failure occurring after October 23, 1996.

As the duly authorized representative of the applicant, I hereby certify that the applicant will comply with the above applicable certification.


NAME OF APPLICANT Mid-Atlantic Broadband Cooperative	AWARD NUMBER AND/OR PROJECT NAME Middle Mile Expansion for Southern Virginia
PRINTED NAME AND TITLE OF AUTHORIZED REPRESENTATIVE Tad Deriso - President and CEO of Mid-Atlantic Broadband Cooperative	
SIGNATURE 	DATE 8/17/2009

DISCLOSURE OF LOBBYING ACTIVITIES

Approved by OMB
0348-0046

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352

(See reverse for public burden disclosure.)

1. Type of Federal Action: <input type="checkbox"/> a. contract <input checked="" type="checkbox"/> b. grant c. cooperative agreement d. loan e. loan guarantee f. loan insurance	2. Status of Federal Action: <input checked="" type="checkbox"/> a. bid/offer/application b. initial award c. post-award	3. Report Type: <input checked="" type="checkbox"/> a. initial filing b. material change For Material Change Only: year _____ quarter _____ date of last report _____
4. Name and Address of Reporting Entity: <input checked="" type="checkbox"/> Prime <input type="checkbox"/> Subawardee Tier _____, if known: Mid-Atlantic Broadband Cooperative 1100 Confroy Drive South Boston, VA 24592 Congressional District, if known: VA #5	5. If Reporting Entity in No. 4 is a Subawardee, Enter Name and Address of Prime: Congressional District, if known:	
6. Federal Department/Agency: Department of Commerce / National Telecommunications and Information Administration	7. Federal Program Name/Description: Recovery Act - Broadband Technology Opportunities Program (BTOP) Broadband Initiatives Program CFDA Number, if applicable: <u>11.557/10.787</u>	
8. Federal Action Number, if known:	9. Award Amount, if known: \$	
10. a. Name and Address of Lobbying Registrant <i>(if individual, last name, first name, MI):</i> Mid-Atlantic Broadband Cooperative 1100 Confroy Drive South Boston, VA 24592	b. Individuals Performing Services <i>(including address if different from No. 10a)</i> <i>(last name, first name, MI):</i>	
11. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less that \$10,000 and not more than \$100,000 for each such failure.	Signature:  Print Name: <u>Tad Deriso</u> Title: <u>President and CEO of Mid-Atlantic Broadband Cooperative</u> Telephone No.: <u>(434) 570-1300</u> Date: <u>8/17/2009</u>	
Federal Use Only:		Authorized for Local Reproduction Standard Form LLL (Rev. 7-97)

General Budget Overview

Budget	Loan Request	Federal Funding Request	Matching Funds (Cash)	Matching Funds (In-Kind)	Equity	Debt	Bond	Other
Network & Access Equipment (switching, routing, transport, access)		1,254,400	313,600					
Outside Plant (cables, conduits, ducts, poles, towers, repeaters, etc.)		11,782,924	2,945,731					
Buildings and Land – (new construction, improvements, renovations, lease)		320,000	80,000					
Customer Premise Equipment (modems, set-top boxes, inside wiring, etc.)								
Billing and Operational Support Systems (IT systems, software, etc.)								
Operating Equipment (vehicles, office equipment, other)		54,000	13,500					
Engineering/Professional Services (engineering design, project management, consulting, etc.)		2,552,966	638,242					
Testing (network elements, IT system elements, user devices, test generators, lab furnishings, servers/computers, etc.)								
Site Preparation		80,000	20,000					
Other								
TOTAL BROADBAND SYSTEM:	\$0	\$16,044,290	\$4,011,073	\$0	\$0	\$0	\$0	\$0

TOTAL
\$1,568,000
\$14,728,655
\$400,000
\$0
\$0
\$67,500
\$3,191,208
\$0
\$100,000
\$0
\$20,055,363

EQUIPMENT: For any item(s) of equipment where the individual cost exceeds \$5,000, a description and associated costs is required.

List each item of equipment.

If over \$5,000, ensure there is a description of how it will be used in the project.

If over \$5,000, describe if a lease vs. purchase analysis has been completed.

For each item of equipment, specify the estimated or actual number of units, cost per unit and total cost.

Explain how each item of equipment is necessary for the successful completion of the project.

Explain how the charges for each item reasonable and realistic.

Ensure that disallowed costs are excluded.

Equipment				
	Description	Unit Basis	Unit Cost	Number of Units
Item 1	Nortel Optical MultiService Edge 6500	Each	\$79,405	6
Item 2	Nortel Optical MultiService Edge 6100	Each	\$7,900	121
Item 3	DC Power System	Each	\$2,450	4
Item 4	NSB 170 Ah Batteries	Each	\$305.64	32
Item 5	DC-AC Inverter	Each	\$2,500	4
Item 6	Small item materials (DC breakers, fiber jumpers, power cabling, service routers, etc.	Lot	\$20,000	1
Item 7	Installation Labor for Nortel 6500s	Each	\$2,450	6
Item 8	Installation Labor for Nortel 6100s	Each	\$590.00	121
Total				

Equipment Narrative

a) The Nortel 6500s are required in the four proposed node shelters where the MBC fiber extended as part of this project, and in two existing nodes where there are currently no are the electronics required to carry traffic across the fiber cables. Each 6500 will contain multiplexing cards that allow for dropping of services in the local loop, and for protection of SONET ring technology. This equipment is not available for leasing and is considered a permanent fixed asset for its service life.

b) The Nortel 6100s will be installed at each school or administration building. This unit requires electrical conversion for handoff to the school on a CAT5 cable (s). This equipment is not available for leasing and is considered to be a permanent fixed asset for its service life.

c) DC power systems are required to convert the input AC power to DC power at the four proposed node shelters. The 6500 units run on -48 volts DC, so the DC power systems are required to convert 220V AC to -48V DC. This equipment is not available for leasing and is considered to be a permanent fixed asset for its service life.

d)

Eight batteries are required at each node location for DC power backup. Even though generator backup for AC power, batteries are required since when there is a commercial momentary interruption of AC power when the switch to generator is made. If there available, all the Nortel equipment resets itself causing an eight minute service outage provide a measure of backup time in the event of generator failure during a commercial equipment is not available for leasing and is considered to be a permanent fixed asset

e)

DC-AC inverter is required to power the site router. Since the router is a critical network powered, to prevent service interruption in a commercial power failure, the AC power power system and the DC-AC inverter. If the Inverter were not present, the router would subsequent service interruption whenever there was a commercial power failure. This available for leasing and is considered to be a permanent fixed asset for its service life

f)

Small item materials consists a myriad of lower unit cost items. These include fiber jump power cables, DC circuit breakers, controller cards, etc.

g)

Installation Labor for Nortel 6500s – cost for installing testing and turning up the Nortel new nodes, and the two existing nodes that currently don't have them.

h)

Installation Labor for Nortel 6100s – cost for installing the 121 Nortel 6100 units at each building.

a description of the item

unit and total cost.
project.

CONSTRUCTION: Please address the following.

Describe the construction/renovation.
Describe the method used to calculate costs.
Detail the proposed costs with the following information:
A listing of work to be performed.
Cost detail by task or work order contemplated.
Explain whether the work is being done by the applicant or outside contractor.
Explain the need for the type of work/costs being proposed.
Explain how the costs are justified, reasonable, allowable, and reasonable.

Total Cost	Ref. Code
\$476,430	a)
\$955,900	b)
\$9,800	c)
\$9,780	d)
\$10,000	e)
\$20,000	f)
\$14,700	g)
\$71,390	h)
\$1,568,000	

er backbone is being
to electronics. The 6500s
ntain optical cards and
ing services through
d to be a permanent fixed

will provide the optical to
s not available for leasing

ur new nodes. The Nortel
) volts AC to -48 volts DC.
asset for its service life.

Construction			
	Description	Unit Basis	Unit Cost
Item 1	144 Fiber Cable	Foot	\$1.45
Item 2	96 Fiber Cable	Foot	\$1.07
Item 3	48 Fiber Cable	Foot	\$0.58
Item 4	24 Fiber Cable	Foot	\$0.47
Item 5	Hand holes	Each	\$649.00
Item 6	Pole Line Hardware/Strand	Foot	\$0.41
Item 7	Cable Route Markers	Each	\$21.10
Item 8	Splice Cases Small	Each	\$320
Item 9	Splice Cases Large	Each	\$475
Item 10	Buried Cable Placement	Foot	\$4.89
Item 11	Aerial Cable Placement	Foot	\$3.19
Item 12	Splicing Labor	Each	\$971.30
Total			

h each node will have
cial power failure, there is
is no battery backup
e. The batteries also
ial power outage. This
et for its service life.

ork component and is AC
is provided through the DC
ould be subject to reset and
is equipment is not
ie.

umpers, DSX panels,

el 6500 units in the four

ch school or admin

Construction
Narrative

a) - d)

These items constitute the fiber cable strand sizes that w
fibers sizes are based on route topology requirements wi
routes tapering in size on secondary routes to smaller str
placed to the individual schools and admin buildings. Th
vendor pricing.

e)

Hand holes are required at strategic locations such as m
cable is coiled in the hand hole below the surface to prov
based on current vendor pricing.

f)

Pole line hardware/strand – For the aerial route segment
is lashed, and each pole requires DA bolts, 3 bolt clamps
strand. For cost estimating purposes, this is typically calc
build costs.

g)

Cable route markers are required to prevent damage to
placed at all hand holes, and at other strategic locations
was based on current vendor pricing.

h)

Splice cases – small are required where ever there is a fi
cables. Unit cost was based on current vendor pricing.

i)

Splice cases – large are required where ever there is a fi
cables. Unit cost was based on current vendor pricing.

j)

Buried cable placement – this cost represents an average
on a per linear foot basis. The work will be performed by

k)

Aerial cable placement – this cost represents an average
a per linear foot basis. The work will be performed by ME

i)

Splicing labor represents an average cost per splice base
locations are at reel ends, cuts where some road crossin
work will be performed by MBC contract splicing crews.

side contractors.

realistic.

ALL OTHER BUDGET LINE ITEMS ON SF 424 C (Administrative and Legal expenses, Land/Structure Work, Demolition/Removal, Misc.)

List items by type of material or nature of expense. For each charge, specify the estimated number of units. Explain how the charges are necessary for the project. Explain how the charges are reasonable.

Number of Units	Total Cost	Ref. Code
460,135	\$667,196	a)
1,129,422	\$1,208,482	b)
501,965	\$291,140	c)
363,256	\$170,731	d)
581	\$377,069	e)
530,232	\$217,395	f)
3,777	\$79,695	g)
209	\$66,880	h)
157	\$74,575	i)
1,924,546	\$9,411,030	j)
530,232	\$1,691,440	k)
487	\$473,023	l)
	\$14,728,655	

Administrative & Legal

Description	
Item 1	
Item 2	
Item 3	
Item 4	
Item 5	
Total	

Narrative	
a)	
b)	
c)	
d)	
e)	



will be constructed along the 465 route miles. The
with 144 strand fibers along primary backbone
strand counts down to 24 strand which will be
the cost per foot was calculated based on current

major intersections and at all splice points where
side access to the fiber cable. Unit cost was

s, 6M support strand is required to which the fiber
s, and other hardware to support the cable and
calculated on a linear foot cost basis based on past

underground facilities. Typically markers are
where potential excavation may occur. Unit cost

fiber splice required on lower strand count fiber

fiber splice required on higher strand count fiber

the historical cost for buried fiber cable placement
/ MBC contract construction crews.

the historical cost for aerial fiber cable placement on
BC contract construction crews.

based on historical averages. Examples of splice
points are made, and at customer locations. The



Land, structures, rights-of-way, appraisal

	Description
Item 1	Node Shelter (12'X20')
Item 2	30 kW Backup Generator
Item 3	
Item 4	
Item 5	
Total	

Narrative

- a) Node Shelter – MBC's current network has 4 Node Shelters for fiber optic transport equipment (12'X20'). The project will require four additional Node Shelters. Node Shelters are not available for lease.
- b) Each node will require a generator. The generator will be used to power the network remains operational. The generator is a permanent installation and is considered to be a permanent improvement.
- c)
- d)
- e)



Relocation expenses and payments

Description	
Item 1	
Item 2	
Item 3	
Item 4	
Item 5	
Total	

Narrative	
a)	
b)	
c)	
d)	
e)	

Architectural and engineering fees

Description	
Item 1	OSP Engineering
Item 2	
Item 3	
Item 4	
Item 5	
Total	

Narrative	
a)	In order to construct the propos contract engineering firms to pr structures, and public right-of-w of engineering costs to OSP co
b)	
c)	
d)	
e)	

Project inspection fees

Description	
Item 1	Project Inspection Fees
Item 2	
Item 3	

Item 4	
Item 5	
Total	

Narrative

- a)
- b)
- c)
- d)
- e)

In order to ensure that the proje required to engage project man percentage of overall constructi employees and contractors.

Site work

Description

Item 1	Site Preparation
Item 2	
Item 3	
Item 4	
Item 5	
Total	

Narrative

- a)
- b)
- c)
- d)
- e)

Each node described in Land & conditioning, etc. The unit cost

Demolition and removal

Description

Item 1	
Item 2	
Item 3	
Item 4	
Item 5	
Total	

Narrative

- a)
- b)
- c)
- d)
- e)

Miscellaneous

Description	
Item 1	Vehicles
Item 2	Computers
Item 3	Desks/Furnishings
Item 4	
Item 5	
Total	

Narrative

- a) For the added MBC employees them to make site visits, attend requirement would make purchase vehicle.
- b) Each new employee will require
- c) Each new employee will require
- d)
- e)

s, etc

Unit Basis	Unit Cost	Number of Units	Total Cost	Reference Code
Each	\$75,000	4	\$300,000	a)
Each	\$25,000	4	\$100,000	b)
	0	0	\$0	c)
	0	0	\$0	d)
	0	0	\$0	e)
			\$400,000	

network has 22 nodes strategically placed through its network. These shelters contain the described in the equipment section. The extensions of the backbone required to support this all nodes to house the transport equipment. The unit cost is based on current vendor pricing, and are considered to be a permanent fixed asset for its service life.

ator to provide backup AC power in the event of a commercial power failure to ensure the The unit cost is based on current vendor pricing. This equipment is not available for leasing permanent fixed asset for its service life.

Unit Basis	Unit Cost	Number of Units	Total Cost	Reference Code
		0	0	0 a)
		0	0	0 b)
		0	0	0 c)
		0	0	0 d)
		0	0	0 e)
				0

Unit Basis	Unit Cost	Number of Units	Total Cost	Reference Code
% of Cost	\$16,296,655	10.39%	\$1,693,795	a)
	0	0	0	b)
	0	0	0	c)
	0	0	0	d)
	0	0	0	e)
			\$1,693,795	

ed 465 mile fiber route, detailed OSP engineering plans must be developed. MBC uses
 oduce these construction drawings and to apply for all necessary easements for the node
 ay and railroad permits. The estimated cost for this project was based on an historical ratio
 nstruction and transport costs.

Unit Basis	Unit Cost	Number of Units	Total Cost	Reference Code
% of Cost	\$16,296,655	9.19%	\$1,497,413	a)
	0	0	0	b)
	0	0	0	c)

	0	0	0	d)
	0	0	0	e)
			\$1,497,413	

ect is planned, engineered, and constructed in a quality and timely manner, MBC will be
agers and project inspectors. The cost of these resources is based on an historical
ion and equipment costs. Personnel performing these tasks will be a combination of MBC

Unit Basis	Unit Cost	Number of Units	Total Cost	Reference Code
Each	\$25,000	4	\$100,000	a)
	0	0	0	b)
	0	0	0	c)
	0	0	0	d)
	0	0	0	e)
			\$100,000	

: Structures requires site preparation consisting of minor grading, driveway and parking
t is based on MBC historical averages. The work will be performed by MBC contractors.

Unit Basis	Unit Cost	Number of Units	Total Cost	Reference Code
	0	0	0	a)
	0	0	0	b)
	0	0	0	c)
	0	0	0	d)
	0	0	0	e)
			0	

Unit Basis	Unit Cost	Number of Units	Total Cost	Reference Code
Each	\$20,000	3	\$60,000	a)
Each	\$1,500	3	\$4,500	b)
Each	\$1,000	3	\$3,000	c)
	0	0	\$0	d)
	0	0	\$0	e)
			\$67,500	

performing project management and inspection tasks, three vehicles will be required for meetings, etc. Consideration was given to a lease, but the anticipated high mileage use more attractive. The cost basis for the vehicles is based on average new mid-sized

→ a new computer and is based on current vendor pricing.

→ office furniture for his or her work space; cost basis is current vendor pricing estimate.

DETAIL OF PROJECT COSTS

PLEASE COMPLETE THE TABLE BELOW FOR THE DIFFERENT CATEGORIES OF EQUIPMENT THAT WILL BE REQUIRED FOR COMPLETING THE PROJECT. EACH CATEGORY SHOULD BE BROKEN DOWN TO THE APPROPRIATE LEVEL FOR IDENTIFYING UNIT COST

SERVICE AREA or COMMON NETWORK FACILITIES:		Eligibility (Yes/No)	Unit Cost	No. of Units	Total Cost	Support of Reasonableness
NETWORK & ACCESS EQUIPMENT					\$1,568,000	
Switching					\$0	
					\$0	
					\$0	
Routing					\$0	
					\$0	
					\$0	
Transport	Nortel Optical MultiService Edge 6500	Yes	\$79,405	6	\$476,430	
	Nortel Optical MultiService Edge 6100	Yes	\$7,900	121	\$955,900	
					\$0	
Access					\$0	
					\$0	
					\$0	
Other	DC Power System	Yes	\$2,450	4	\$9,800	
	NSB 170 Ah Batteries	Yes	\$305.64	32	\$9,780	
	DC-AC Inverter	Yes	\$2,500	4	\$10,000	
	Small item materials (DC breakers, fiber jumpers, power cabling, service routers, etc.	Yes	\$20,000	1	\$20,000	
	Installation Labor for Nortel 6500s	Yes	\$2,450	6	\$14,700	
	Installation Labor for Nortel 6100s	Yes	\$590.00	121	\$71,390	
					0	
OUTSIDE PLANT					\$14,728,655	
Cables	144 Fiber Cable	Yes	\$1.45	460,135	\$667,196	
	96 Fiber Cable	Yes	\$1.07	1,129,422	\$1,208,482	
	48 Fiber Cable	Yes	\$0.58	501,965	\$291,140	
	24 Fiber Cable	Yes	\$0.47	363,256	\$170,730	
Conduits	Hand Holes	Yes	\$649.00	581	\$377,069	
					\$0	
					\$0	
Ducts					\$0	
					\$0	
					\$0	
					\$0	

Poles					\$0
					\$0
Towers					\$0
					\$0
Repeaters					\$0
					\$0
					\$0
Other	Pole Line Hardware/Strand	Yes	\$0.41	530,232	\$217,395
	Cable Route Markers	Yes	\$21.10	3,777	\$79,695
	Splice Cases Small	Yes	\$320	209	\$66,880
	Splice Cases Large	Yes	\$475	157	\$74,575
	Buried Cable Placement	Yes	\$4.89	1,924,546	\$9,411,030
	Aerial Cable Placement	Yes	\$3.19	530,232	\$1,691,440
	Splicing Labor	Yes	\$971.30	487	\$473,023

SERVICE AREA or COMMON NETWORK FACILITIES:		Eligibility (Yes/No)	Unit Cost	No. of Units	Total Cost	Support of Reasonableness
BUILDINGS					\$400,000	
New Construction					0	
					0	
					0	
Pre-Fab Huts	Node Shelter 12' X20'	Yes	\$75,000	4	\$300,000	
					\$0	
					\$0	
Improvements & Renovation					\$0	
					\$0	
					\$0	
Other	30 kW Backup Generator	Yes	\$25,000	4	\$100,000	
					0	
					0	
CUSTOMER PREMISE EQUIPMENT					\$0	
Modems					0	
					0	
					0	
Set Top Boxes					0	
					0	
					0	
Inside Writing					0	
					0	
					0	
Other					0	
					0	
					0	
BILLING SUPPORT AND OPERATIONS SUPPORT SYSTEMS					\$0	
Billing Support Systems					0	
					0	
					0	
Customer Care Systems					0	
					0	
					0	
Other Support					0	
					0	
					0	

SERVICE AREA or COMMON NETWORK FACILITIES:		Eligibility (Yes/No)	Unit Cost	No. of Units	Total Cost	Support of Reasonableness
OPERATING EQUIPMENT					\$67,500	
Vehicles	Vehicles	Yes	\$20,000	3	\$60,000	
					\$0	
					\$0	
Office Equipment / Furniture	Desks/Furnishings	Yes	\$1,000	3	\$3,000	
					\$0	
					\$0	
Other	Computers	Yes	\$1,500	3	\$4,500	
					\$0	
					\$0	
PROFESSIONAL SERVICES					\$3,191,208	
Engineering Design	OSP Engineering	Yes	\$16,296,655	10.39%	\$1,693,795	
					\$0	
					\$0	
Project Management	Project Management	Yes	\$16,296,655	9.19%	\$1,497,413	
					\$0	
					\$0	
Consulting					\$0	
					\$0	
					\$0	
Other					\$0	
					\$0	
					\$0	
TESTING					\$0	
Network Elements					0	
					0	
					0	
IT System Elements					0	
					0	
					0	
User Devices					0	
					0	
					0	
Test Generators					0	
					0	
					0	
Lab Furnishings					0	
					0	
					0	
Servers / Computers					0	
					0	
					0	

SERVICE AREA or COMMON NETWORK FACILITIES:	Eligibility (Yes/No)	Unit Cost	No. of Units	Total Cost	Support of Reasonableness
OTHER UPFRONT COSTS				\$100,000	
Site Preparation	Yes	\$25,000	4	\$100,000	
				\$0	
				\$0	
Other				\$0	
				\$0	
				\$0	
PROJECT TOTAL:				\$20,055,363	


**BROADBAND TECHNOLOGY OPPORTUNITIES PROGRAM
Federal Request and Match Verification**

Name of Applicant Organization MID-ATLANTIC BROADBAND COOPERATIVE
DUNS Number 143482482
Easy Grants # of Submitted Application 972

As an Authorized Organizational Representative of the entity listed above, I verify that

(i.) The amounts in the "Grant Request" column from the budget table submitted by the entity I represent in response to Question 44 on page 17 of the Broadband Infrastructure Application completely and accurately reflect the amount of the organization's Federal grant request to NTIA; and

(ii.) The amounts in the "Cash \$" and "In-kind \$" fields submitted by the entity I represent in response to Question 52 on page 19 of the Broadband Infrastructure Application completely and accurately reflect, respectively, the organization's cash and in-kind matching contributions for the proposed project.

Signature of authorized person  Date Dec. 7, 2009
Print name of authorized person TAD DERISO
Title or position president & CEO