



**Broadband Infrastructure Application
Submission to RUS (BIP) and NTIA (BTOP)**

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| Submitted Date: 8/20/2009 2:40:51 PM | Easygrants ID: 2565 |
| Funding Opportunity: Broadband Initiatives Program and Broadband Technology Opportunities Program | Applicant Organization: Consolidated Electric Cooperative Inc |
| Task: Submit Application - Infrastructure Programs | Applicant Name: Mr. Wes Allan Reinhardt |

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A. General Application Information

| 1. Applicant Information | |
|---|---------------------------------------|
| 1-A. Name, Address, and Federal ID for Applicant | |
| i. Legal Name: | Consolidated Electric Cooperative Inc |
| ii. Employer/Taxpayer Identification Number (EIN/TIN): | 314259080 |
| Street 1: | 5255 State Route 95 |
| Street 2: | P.O. Box 111 |
| City: | Mount Gilead |
| County: | Morrow |
| State: | OH |
| Country | United States |
| Zip/Postal Code: | 433380111 |

| 1-B. Name and Contact Information of Person to be Contacted on Matters Involving this Application: | |
|--|------------------------|
| Prefix: | Mr. |
| First Name: | Wes |
| Middle Name: | Allan |
| Last Name: | Reinhardt |
| Suffix: | |
| Telephone Number: | 419-949-2906 |
| Fax Number: | |
| Email: | wreinhardt@conelec.com |
| Title: | CFO |



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| 1-C. Other Required Identification Numbers | |
|---|---|
| i. Organizational DUNS: | 007777709 |
| ii. CCR # (CAGE): | 1W5L3 |
| iii. Funding Opportunity Number: | 1 |
| iv. Catalog of Federal Domestic Assistance Number: | BTOP CFDA Number: 11.557 BIP CFDA Number: 10.787 BTOP CFDA Title: Broadband Technology Opportunities Program BIP CFDA Title: Broadband Initiatives Program |

1-D Eligible Entities

Please classify your organization. (Note: If there are multiple organizations involved in the project, designate the lead applicant that would enter into a Loan or Grant agreement with the Agency and assume operational and financial responsibility should an award be made). **Non-Profit Corporation**

1-E. RUS Borrower Status

No

1-F. Applicant Federal Debt Delinquency Explanation

Is the Applicant Delinquent On Any Federal Debt? No

Federal debt delinquency Explanation:

N/A

2. Project Description & Project Title

2-A. Project Title: North Central Ohio Rural Fiber Optic Network

2-B. Project Description: Consolidated Electric Cooperative is proposing construction of an open-connectivity fiber optic backbone network. This middle mile project is integral to a Smart Grid initiative and broadband service that will bring urban connectivity to rural Ohio. Multiple benefits include economic development, job creation, connectivity of Village, County, State, medical, and educational facilities.



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3. Application ID for Multiple Submissions for Identified Service Areas:
N/A

4. Rural Area Determination

At least 75 percent of the proposed service area to be funded falls within rural areas that are unserved or underserved.

Yes

5. Applications for Rural Areas: Please choose the funding program(s) to which you are submitting this application.

a) BIP broadband infrastructure category to which you are applying:

BIP - Middle Mile Project

b) Would you like this Application for Rural Areas to also be considered for BTOP funding?

Yes

c) BTOP Infrastructure category for which you are applying.

Middle Mile

6. Applications for All Other Areas: Per the NOFA, all applications to fund broadband infrastructure projects in areas that are less than 75% rural must be submitted to NTIA for consideration under BTOP.

BTOP broadband infrastructure category to which you are applying: **Middle Mile**

B. Eligibility Factors

7. Application Submission

BIP and BTOP Factors Selected By Applicant:

Applicant has submitted a completed application and provided all supporting documentation required for the application.

The Project will be substantially complete within 2nd year from the award date, and the project will be fully



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| complete by the end of the 3rd year from the award date. |
| For projects seeking more than \$1 million funding, the Applicant agrees to submit a certification, from a Professional Engineer, that attests that a) the system will deliver the stated performance; and b) the projected project will be substantially completed within two years, and fully completed within three years. |
| The Applicant provides two-way data transmission with advertised speeds of at least 768 kbps downstream and 200 kbps upstream. |
| Applicant understands and agrees to comply with the nondiscrimination and interconnection obligations outlined in the NOFA. |
| If applying for a last mile Broadband Infrastructure project, applicant understands and agrees to comply with the last mile coverage obligations as outlined in the NOFA. |

| |
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| Additional Factors for BIP Selected By Applicant |
| At least 75 percent of the proposed funded service area qualifies as unserved and underserved rural areas in accordance with the NOFA. |
| Applicant understands and agrees that the project will be fully funded in accordance with the requirements of the NOFA. |
| Applicant understands and agrees that only projects that RUS determines to be financially feasible and/or economically sustainable will be eligible under this NOFA. |



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| <p>Additional BTOP Factors Selected By Applicant</p> <ul style="list-style-type: none"> • Conformity with Statutory Purposes • Cost Sharing/Matching • Reasonableness of Project Budget |
| The project advances at least one of the statutory purposes for BTOP |
| Applicant has provided documentation that the project would not have been implemented during the grant period without federal grant assistance. |
| Applicant has provided a budget that is appropriate to the proposed technical solution and only includes eligible costs. |

- **Demonstration the Project Could not be Implemented But For Federal Grant Assistance**
Applicant is providing matching funds of at least 20 percent towards the total eligible project costs?
Yes

| |
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| 7-k. Cost Sharing/Matching Fund Explanation |
| N/A |

C. Executive Summary

Executive Summary of Project for BIP and BTOP:

8. Infrastructure Projects Executive Summary

Consolidated Electric Cooperative, Inc. ("Consolidated") (CEC) is seeking ARRA stimulus funding from BIP and BTOP for a 166 mile middle mile network that will bring major city connectivity into underserved areas of Northern Delaware County, Morrow County and the western portions of Knox and Licking Counties. In addition to providing the much needed connectivity for key community facilities and wireless internet service providers, the CEC network will connect all of Consolidated's substations to support its Smart Grid technology initiative.



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CEC is a rural electric cooperative that has served north central Ohio for over 70 years. Consolidated, because of the nature of its electricity business, is linked to economic success and progress in its service area.

The NCORFON funded and non-funded service area will immediately address the most significant barrier to economic development in the area – the availability of high-quality, Ethernet services delivered over a fiber network especially, dark fiber. Importantly, there are no dark fiber resources available anywhere in the funded or non-funded service areas. Many corporations, institutions, and medical complexes desire their own dark fiber to operate and create facilities. The ability to provide dark fiber to large employers looking for locations has become a significant economic development tool, especially in Central Ohio. (See attached Delaware County article)

Small to medium business and residential broadband users in “served” areas currently pay a 10-15% premium for their service compared to statewide averages according to Connect Ohio, the State’s broadband mapping. For the 4,779 homes designated in our funded service area as “underserved” or “unserved”, the options are CEC Bright Choice dial-up, wireless, or satellite service. The 1,596 CEC Bright Choice customers are enthusiastic about making an immediate transition to newly enabled, broadband service providers that will provide their wireless service to the funded and unfunded areas.

The NCORFON will run 166 miles and consist of 144 strands of fiber with 10 remote Points of Presence and 2 head end locations. It will connect 16 CEC substations that will support the infrastructure for Smart Grid Technology services to be deployed. Recovery Act Stimulus funding has been applied for to supply the substation equipment, metering equipment, and installation labor. The fiber connectivity to allow the system to operate between the substations is being sought in this application. The use of the secure electric substations to locate the electronics to support the fiber network will substantially reduce the cost of construction as well as the construction time. The time required to build the 166 mile network will be reduced 50-70% since CEC possesses right of ways and utility poles. Not only is the project shovel ready but the time to build 93% of the network is projected to be only 9-12 months. It will immediately support the network connectivity requirements of the service areas and connect to the neighboring stimulus projects submitted by OneCommunity and Southern Ohio Health Care Network (SOHCN).



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NCORFON fiber network will terminate in the carrier neutral SCG ("Scherer") data center via fiber owned by the Delaware Area Super Highway ("DASH") network. The Scherer data center located in Columbus, Ohio, will allow anyone connected to the NCORFON to connect to over 20 carriers, as well as, The Ohio Academic Research Network ("OAR.net") (Ohio Statewide fiber network connected to all Ohio schools, colleges, and universities), the Dublin, Gahanna and New Albany community fiber networks, multiple health networks and medical support services. The network equipment and core Sonet electronics will be located in the Scherer data center to support the distribution of diverse services to NCORFON customers, as well as, maximize the scalability, flexibility, and diverse nature of the network. Ethernet, not copper, will be delivered to network users. Ethernet is a proven technology with unmatched scalability compared to alternatives like DS1, DS3, OC3, PL/Frame/ATM. With support for rate limiting available in Ethernet Switches, service providers can offer a wide range of granular bandwidth increments using the same CPE. For small to medium business users in the NCORFON service areas, this means they can order high-quality bandwidth and related data center services at pricing that fits their budget. At the same time, their ability to make connections to other diverse networks and services will be available at costs comparable to enterprise-level discounts.

NCORFON has already received several commitments to purchase Indefeasible Rights to Use ("IRU's") on the network from carriers and 3rd party vendors. These, and other vendors sure to follow, will bring a variety of services and diverse WAN network connectivity unavailable today even in served areas and communities. As they have proven over the past 70 years, CEC's management team is fully capable of managing the construction, implementation of services, maintenance, marketing, and ongoing growth and increased scalability of the network. Through innovative relationships with suppliers and third party data center operators, as well as strategic connections with neighboring networks like OneCommunity and SOHCN, CEC will be offering its members, as well as residents and businesses outside its proposed funded and non-funded service areas, a state-of-the-art network of services and capabilities.

The 295 sq mile proposed funded service area is designated as 81% underserved or unserved with over 79% of the 4,779 homes located within the funded service area designated as unserved or underserved as well. Additionally, the network will serve as a backbone for third party providers to deliver services to another 513 sq miles of unfunded area containing 35,709



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homes with marginal access to high-quality broadband services (even though the areas are considered “served” by available carrier data).

There are 2001 businesses in the communities located throughout the service areas. These are businesses desperate for affordable, high-quality broadband options. The NCORFON will have a dramatic, positive impact on the economic development issues currently facing the counties. We have attached the two Job Ready flyers used by the Morrow County Economic Development group as an example. Note that there is no mention of broadband services on either of the Job-Ready flyers. These business park locations are located at the only two I-71 interstate exits in the Morrow County. They are perfectly located to support logistical operations, industrial and manufacturing facilities. No businesses however, have indicated any interest in relocating there because high-quality Broadband is not available at a reasonable price. A community support letter from Morrow County conservatively shows over 2,500 jobs would be created from just these two business parks alone.

Communities throughout the proposed service areas are enthusiastic supporters of the NCORFON. As the attached letters of support will show, they are desperate for the improved broadband services to their communities. County and Village offices have committed to utilize the new NCORFON network when the services are made available. They expect 25-30% reductions in cost and/or 25-40% improvement in the quality and stability of the fiber services offered compared to their current service. There are 49 strategic community institutions available to utilize NCORFON. Examples are as follows:

- TRECA – An organization that serves 11 schools systems and the NCORFON will be able to build 1Gbps services to the schools. TRECA would expect to see a minimum 25-30% reduction in cost for proposed 100Mb connectivity to schools on the network over the next 2-3 years,
- Morrow County Board of Developmental Disabilities will be connected through TRECA’s NCORFON connection.
- Ohio Health network hospital and supported medical offices located throughout the area will be able to access the NCORFON at reduced prices for proposed increases in their broadband requirements in two years. Additionally, Ohio Health systems will be directly linked to the OneCommunity network of hospitals and medical facilities to the north, the SOHCN of hospitals in the east and Southeast.



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- DASH - A consortium of partners that includes City of Delaware, County of Delaware, CEC, and the OhioHealth Hospital System (see attached Delaware County article). The NCORFON will be directly connected to this network as a service provider and a customer.
- Multiple fire and EMS locations located in the counties will be serviced through the NCORFON

Currently, both incumbent service providers offer bandwidth delivered over aging copper to the end user. In addition, the DS1, DS3 technology currently utilized, requires end users to purchase multiple bandwidth products to receive bandwidth they require. As an end result, businesses subscribing to and paying for 100Mb service are required to subscribe to three (3) DS3 products to receive 100Mbps...a minimum \$9,000/mo to the end user.

Conclusion

Cost effective access to dark fiber and Metro-Ethernet distributed services is the most critical element of the economic development survival of the proposed funded and non funded service area. Job growth and retention, education, medical, and government public safety services are totally dependant upon the addition of these services to operate their programs effectively. Due to CEC's utilization of their utility pole access, system engineering, and vendor and fiber availability, this network will be 93% built 9-12 months after funding. CEC has also arranged to support the neighboring Recovery Act projects of SOHCN and OneCommunity networks by coordinating middle mile and last mile services.

Description of BTOP Project Purpose (BTOP Applicants Only Next Three Questions)

9. BTOP Statutory Purpose:



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| Provide access to broadband service to consumers residing in “unserved” areas of the United States. |
| Provide improved access to broadband service to consumers residing in “underserved” areas of the United States. |
| Provide broadband education, awareness, training, access, equipment, and support to schools, libraries, medical and healthcare providers, community colleges and other institutions of higher education, and other community support organizations by or through these organizations. |
| Provide broadband education, awareness, training, access, equipment, and support to organizations and agencies that provide outreach, access, equipment and support services to facilitate greater use of broadband service by low-income, unemployed, aged, and otherwise vulnerable populations. |
| Provide broadband education, awareness, training, access, equipment, and support to job-creating strategic facilities located within a defined economic zone, or community as designated by a State authority, Department of Commerce , HUD or USDA. |
| Improve access to, and use of, broadband service by public safety agencies. |
| Stimulate the demand for broadband, economic growth, and job creation. |

10. Description of BTOP Project Purpose:

Morrow County is located in the geographical and population center of Ohio along the Interstate 71 Corridor. Despite its strategic location it remains predominately rural and is one of the poorest counties in Ohio outside the Appalachian region. Broadband services offered throughout the funded and non-funded service areas are inconsistent and higher priced than urban areas. Adding to the difficulty in ordering services is the fact that the service area is 295 square miles of which 81 % is unserved or underserved as defined in the NOFA .

Consolidated Electric Cooperative (CEC) is a not for profit member-owned rural electric distribution cooperative with a record of providing community services and economic development support to its service area in 8 central Ohio counties. Project costs will be greatly reduced by the utilization of CEC’s existing poles and right of ways, thereby leveraging federal dollars to provide maximum benefits in a cost effective manner.



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This project addresses the five(5) statutory purposes;

A & B - The proposed middle mile network is being constructed through an area that is 79.47% unserved and underserved by number of homes. The proposed service area consists of 295 sq. miles that area that is 81.4% unserved or underserved.

C. Dark Fiber and Gbps Metro Ethernet services will be available for connections to libraries, schools, and community centers offering virtually unlimited capacity for current and future broadband needs. Pricing for the Gbps services (currently unavailable anywhere in the area) will be the same price as current products sold that are 1-10% of the capacity on the new services. The new connections will be connected to OARNET and provide access to colleges, school systems, and technology institutions throughout Ohio. These services will also support the Job Ready sites in Morrow County that do not have any broadband services to offer potential tenants. It is conservatively estimated that over 2,500 jobs could be created in these two sites alone. The Smart Grid technology will allow residents and business to manage their electrical usage to increase efficiencies and reduce costs. A third industrial park near the Village of Mount Gilead will also have the opportunity to be connected to fiber.

D. The fiber network will be directly connected to DASH (Delaware Area Super Highway) that is designed to be a carrier- neutral network and support regional interoperability initiatives. The Morrow County Sheriff Dept. will connect to support its significant bandwidth as well as directly connect to County offices and courthouse.

E. The proposed funded and non-funded service area is completely void of dark fiber options, even with 3 carriers offering services. The CEC network will provide dark fiber that will allow multiple carriers to access the network to distribute their services to residents and businesses. The availability of dark fiber resources are the only tool regional populations have to level the economic development playing field (See City of Delaware article). Additionally, business and strategic community institutions must have access to Mbps products at cost effective rates.

Multiple benefits will be realized by the public and private sectors including:

- Increased broadband penetration to the target unserved and underserved service areas.
- Provide lower cost and higher capacity broadband service and connectivity to state, county and local government agencies



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- Provide the backbone connectivity necessary to facilitate CEC’s Smart grid initiative resulting in increased energy utilization efficiencies, lower peak demand, and improved outage response time as outlined in CEC’s Smart grid grant application through the Department of Energy (DOE).
- Improved connectivity for first response, health, safety and law enforcement personnel resulting in improved emergency services.
- Improved rural health care services by providing higher capacity, cost effective, and redundant broadband access to the local hospital and health care facilities.
- Provide access to affordable dark fiber and Ethernet connectivity as an incentive for economic development and job retention in this economically depressed area.
- Provide local school and libraries the opportunity to connect to a high capacity broadband network connected to OARNET and Columbus technology resources, institutions, and local area colleges.
- This project will interface other middle mile projects being proposed in adjacent parts of Ohio by organizations including OneCommunity and SOHCN.

To promote interoperability, open access and wide diversity of services, CEC will segment its network in the following manner: The network will be partitioned approximately 1/3 for dark fiber sales to carriers which will generate a significant revenue stream immediately upon network completion, 1/3 to be retained for CEC use and to support “regionalization of local government communication services”, and 1/3 for Metro-Ethernet services to connect to community, educational, medical, and local government anchor institutions, as well as to be resold through 3rd party ISP’s, WISP’s, and data centers to bring enhanced services to the region.

**11. BTOP Enhanced Services for Health Care Delivery, Education, and Children:
MEDICAL**

Morrow County Hospital is an OhioHealth partner affiliated with other central Ohio hospitals including Grady Hospital in Delaware, as well as Riverside, Grant, Children’s and other Columbus Metro hospitals. These facilities provide specialized services such as cardiology, urology and radiology. Transmission of medical files and images are currently hampered by the lack of bandwidth and connectivity. Morrow County Hospital has submitted a letter of support for the project that can be found as an attachment to the application.

Future opportunities lie ahead in connecting The Galion Community Hospital, which also has a relationship with the OhioHealth system. Additional hospitals which could benefit from the



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broadband backbone include facilities in Mt. Vernon and Marion. Doctor's offices and remote medical facilities are located throughout the underserved area and will benefit from the increased bandwidth and connectivity. This project not only provides alternatives and cost savings, but it offers redundant services which are important in times of natural or man made disasters.

EDUCATION

TRECA, Tri Rivers Educational Computer Association, an Information Technology Center, is a consortium of over 40 Ohio School Districts with a primary focus in Delaware, Marion, Knox and Morrow Counties. The Middle Mile project gives TRECA the opportunity to provide a higher level of service to member schools located in the underserved area at a cost far less than what they currently pay for connectivity and bandwidth. These efficiencies and reduced costs are critical to its member schools, which are currently providing services in economically distressed areas.

In addition to serving school districts, TRECA provides computer services to Mentally Retarded Developmental Disabilities (MRDD) providers. These locally funded providers also benefit from greater connectivity and lower costs associated with the completion of CEC's Middle Mile project in the underserved areas.

The potential to assist libraries exists in the communities of Ashley, Chesterville, Mt. Gilead, Cardington, and Johnsville, localities that are currently inadequately served by only T1 infrastructures. Not only have libraries experienced a funding cut during the past Ohio budget process, but during this economic recession library use has increased by those seeking employment and additional education. Any opportunity to provide higher services at the same or lower cost is a benefit to those in underserved areas.

This Middle Mile project provides opportunities to connect TRECA and other state agencies, such as county and city governments, who can benefit from being directly connected with the state through the OAR.net system. OAR.net is a provider of services to higher education and state agencies in Ohio.

D. Proposed Funded Service Area

12. Proposed Funded Service Area Maps:

12-A. Service Area Map (Reference Number): 6147-878B-4A57-9409



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12-B. Is the applicant is seeking a waiver for providing less than 100% coverage of a census block. **No**

13. Proposed Funded Service Area (BIP - Last Mile Projects):

Please refer to section M at the end of document.

14. Proposed Funded Service Area (BTOP - Middle Mile Project):

Please refer to section M at the end of document.

15. Non-Funded Service Area(BIP Only):

Total Population using the last decennial census is 104,747 Total Number of Households is 35,709 Total Number of Businesses is 2,001 Total Subscriber number is 1,250

16. Coverage Waiver:

Applicant is seeking a waiver for providing less than 100% coverage of a census block.

No

For Response of "Yes" please refer to upload section for additional supporting documentation.

17. Methodology for Area Status:

Data from the publically available 2008 Connect Ohio Consumer Technology Assessment for Morrow County was referenced, which is a statistical representation of last-mile internet-service availability. These data were broken down to the census block level using both Connect Ohio Data and the mapping tool from USDA. Calculations were done per population and per square mile to determine the percent unserved or underserved. The results of our calculations found the 295 square-mile proposed service-area is composed of 4,779 households, of which 79% are underserved or unserved households as defined by the NOFA.

Through anecdotal findings from Consolidated Electric's subsidiary Bright Choice (BCI), the outlined service areas are underserved as shown by the high numbers of dial-up and non-terrestrial services within the service areas.

The service area, as defined in the USDA Broadband USA mapping tool, is 100% rural

18. Middle Mile Benefits

Last-mile service areas include communities adjacent to the middle-mile project area; included are the villages of Ashley, Cardington, Centerburg, Ostrander, Sunbury, Marengo,



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Mount Gilead, Chesterville, Fredericktown, and Johnstown, and the citie of Delaware..

Potential service providers for the last-mile interconnection portion include BCI (Bright Choice) and Omnicity as initial providers. The open architecture allows for other last-mile providers to offer services.

Critical institutions which have the potential to be connected are: state and local governmental entities, law enforcement, fire and EMS providers in Morrow County (which can be accessed in the Morrow Economic Development letter of support), Knox, Delaware and Licking counties.

Anchor institutions which will have the opportunity for connection include Morrow County Hospital, TRECA, and Morrow County Board of Developmental Disabilities (through TRECA), One Community, Southeast Ohio Health Network, and DASH (Delaware Area Super Highway).

We anticipate the last-mile-subscriber take at approximately 1,236 connections in the first year (based on a 3,5% take rate), which may include connections in non-funded areas. Assuming an ultimate take rate of 11%, the potential of connections over 5 years would be over3,412 household connections.

A large portion of the underserved area is dependent upon satellite service for broadband connection, which brings its issues of objectionable latency, bandwidth restrictions, high cost and limited connectivity. While broadband service may be available in the more highly served areas, issues of cost and quality can be overcome with the competition provided by a fiber middle-mile backbone.

E. Proposed Service Offering

19. Broadband Service Offerings for Last Mile Project:

Please refer to upload section at the end of the document.



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20. Service Offerings for Middle Mile Project:

Please refer to upload section at the end of the document.

Competing Service Providers

21. Existing Broadband Service Providers and Services Offered:

Please refer to upload section at the end of the document.

Non-Discrimination, Interconnection

22. Description of Network Openness:

Consolidated plans to utilize a business model that is completely open. The operational plan is to provide transport only for any buyer. Any ISP, carrier, WISP or business can buy transport to any connection point or to Consolidated's connection to Scherer Data Center in Columbus. In addition to the transport piece, Consolidated will lease dark fiber point to point or through the entire network to any entity that is willing to purchase an IRU.

CEC has no intention of developing a practice to block access. CEC intends to comply with all federal regulations on the subject including HIPPA. Additionally, CEC commits to the interconnection and non-discrimination requirements set forth in the NOFA. Specifically, without limitation, CEC agrees that it will (1) adhere to the principles contained in the FCC's Internet Policy Statement (FCC 05-151, adopted August 5, 2005); (2) not favor any lawful Internet applications and content over others; (3) display any network management policies in a prominent location on the service provider's web page and provide notice to customers of changes to these policies; (4) connect to the public Internet directly or indirectly, such that the project is not an entirely private closed network; and (5) offer interconnection, where technically feasible without exceeding current or reasonably anticipated capacity limitations, on reasonable rates and terms to be negotiated with requesting parties. To satisfy the requirement for interconnection, Consolidated will negotiate in good faith with all parties making a bona fide request.



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Non-Discrimination and Interconnection (BTOP applicants only for next three questions)

23. Non-Discrimination Obligations (applicable to Last Mile and Middle Mile Applicants):

Adhere to the minimum non-discrimination requirements as set forth in the NOFA.

Display the nondiscrimination practices in a prominent location on the service provider's web page, and provide notice to customers of changes to these policies.

24. Interconnection Obligations (applicable to Last Mile Applicants):

25. Interconnection Obligations Middle Mile Applicants:

Adhere to the minimum interconnection requirements as set forth in the NOFA.

Display the interconnection policies in a prominent location on the service provider's web page, and provide notice to customers of changes to these policies.

Commit to offering wholesale access to network components and services such as wavelength or fibers at reasonable rates and terms.

Commit to binding private arbitration of disputes concerning interconnection obligations.

Cost Effectiveness and Affordability

26. Cost per Household (BTOP only):

We are submitting a Middle Mile Project, this question only pertains to Last Mile projects. It does not apply.



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27. Affordability

Please refer to narrative on attachment question 27.

F. Technology Strategy

28. Technology Type:

| |
|------------------------------|
| Wireline - Fiber-optic Cable |
| Wireless - Terrestrial Fixed |

Other:

29. System Design

Metro Ethernet delivers a compelling value proposition for business-network management and services disbursement. Metro Ethernet services provide an efficient data-optimized solution for WAN/MAN. Ethernet-based access and connectivity services deliver the following benefits to businesses:

1. Scalability

Ethernet is a proven technology with unmatched scalability, compared to alternatives like PL/Frame/ATM. Ethernet can scale from 10 Mbps to 1000 Mbps, often without a change in technology or Customer-Premise Equipment (CPE). With support for rate limiting available in Tier-3 Ethernet switches, service providers can offer a wide range of granular bandwidth-increments using the same CPE.

2. Cost Effective

Ethernet economics are proven in the LAN. This technology now delivers the same advantage to the WAN. The cost per Mbps of bandwidth is lower for Ethernet services in comparison to other alternatives. Additionally, per-port cost for Ethernet CPE is lower than those for ATM/SONET/SDH, and there is no need to oversubscribe bandwidth. Through service providers, businesses can purchase only the bandwidth they need, when they need it, and this ability reduces their operating expenses. Ongoing operational costs are also lower for Ethernet, because the knowledge base for this technology is widely available within the enterprise.



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Finally, Ethernet also facilitates initiatives like server and storage consolidation that lead to lower overall IT cost.

3. Flexibility

Metro Ethernet provides a flexible WAN solution for businesses and communities networking. The service can be used for connectivity and as an access mechanism. Metro Ethernet can also be used as a local-loop alternative for high-speed access to Layer-3 services such as Internet and IP VPN, eliminating any first-mile bottleneck. Existing Frame/ATM services can coexist with Ethernet, enabling smooth migration to this service. Finally as Metro Ethernet offerings support multiple Classes of Service (CoS), businesses can converge their voice, video, and data applications over a single WAN infrastructure.

4. Simplicity

Most enterprise customers have standardized on Ethernet for their LAN. Now with Ethernet-based services for the WAN, the network architecture is greatly simplified. Metro Ethernet delivers a plug-and-play-connectivity solution for the WAN. This solution is particularly attractive for certain MAN applications like distributed computing, data replication, and business continuity. As this is a L2 service, end users continue to maintain control over their IP domains. Finally, Metro Ethernet allows end users to provision additional bandwidth quickly when needed, with some providers even offering on-demand capabilities.

1. Verizon Telecom, Embarq Communications, and Time Warner Cable do not sell dark-fiber services throughout the funded and non-funded service areas. The middle-mile network proposed by Consolidated Electric Cooperative's NCORFON will bring dark-fiber services that will serve the funded and non-funded service areas.

2. The lack of available dark fiber has been a serious roadblock for the counties and communities that would be served by the NCORFON. Economic development in approved, Job-Ready sites has been stymied due to the lack of high-quality broadband and fiber Ethernet service availability. Dark fiber available through the NCORFON open-network architecture will allow a variety of carriers, including Time Warner, Embarq, and Verizon to bring diverse, competitive, and robust services to the area and will expand the reach and resiliency of their broadband-product offerings.

System Design Factors

1. A minimum of one-third of the proposed middle-mile-fiber network will be dedicated to Metro Ethernet services supported by core Sonet and power-core technology housed in a



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data center. This equipment will support services distributed throughout the middle-mile-fiber network using Tier-3 Ethernet switches and Ad-Drop-Mux equipment strategically located in ten substations along the fiber network and in two head-end locations. This array of equipment will support multiple services to be distributed throughout the network, including Metro Ethernet over fiber and Smart Grid technology initiatives.

2. Sonet technology will provide Metro-Ethernet architecture to deliver a compelling value proposition for business networking. Ethernet, not copper, will be delivered to network users. Ethernet is a proven technology with unmatched scalability compared to alternatives like PL/Frame/ATM. Ethernet can scale from 10 Mbps to 1000 Mbps, often without a change in technology or customer-premise equipment (CPE). With support for rate-limiting available in Ethernet switches, service providers can offer a wide range of granular bandwidth-increments using the same CPE. For small-to-medium business users in the NCORFON service areas, this means they can order high-quality bandwidth and related data-center services at pricing that fits their budgets. At the same time, their ability to make connections to other diverse networks and services will be available at costs comparable to enterprise-level discounts.

3. Community, local government, education, and medical anchor institutions will be able to be directly connected to fiber with 1 Gbps services at prices at or below what they are currently paying for combinations of DS1's or 10-100 Mbps services available through existing providers. The NCORFON will be able to supply 1 Gbps services for these prices since the equipment required to support 10-100 Mbps services over a fiber network is the same price. The capabilities of these services delivered over fiber and not Ethernet will provide similar advantage to data centers, WISP's, and ISP's to supply their services more effectively to area businesses and residents at lower prices.

Network "funded and non-funded" build components

Consolidated Electric Cooperative (CEC) is prepared to build 2.5 miles from the ring to Interstate 71 at State Route 95 at the time of the initial build. A State-of-Ohio radio network tower could be immediately served, along with two carriers' cell towers. Fiber-optic broadband-service has become a standard requirement for economic development for sites that wish to be in the final-selection rounds. The addition of fiber-based facilities to



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the interchange that provides network connectivity will level the playing field, making Morrow County's development sites competitive with other sites across the Central Ohio region and the nation.

The building of this middle mile backbone is only the beginning of expansion opportunities into the 808 square miles of unfunded area from the nine POP sites across Morrow, Knox and Delaware counties.

30. Network Diagram:

Please refer to upload section at the end of document.

31. Certification by Professional Engineer:

Please refer to upload section at the end of document.

32. Buy American Waiver Request:

Is the applicant seeking an individual waiver of the Buy American provision? **Yes**

Buy American Waiver Request – Legal Justification

As per the NOFA, "On July 1, 2009, the Department of Agriculture and the Department of Commerce published notices in the Federal Register stating that the Secretary of Agriculture and Secretary of Commerce have separately reached conclusions that applying the Buy American provision for the use of certain broadband equipment in the public BIP and BTOP projects would be inconsistent with the public interest".

33. Choice of Service Provider:

Does the project's Infrastructure and the Company's business plan allow more than one provider to serve end users in the proposed funded service area?

Yes

G. Project Milestones and Completion Factors

Timeline & Milestones



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34. Infrastructure Build-out Timeline:

Please refer to upload section at the end of the document.

35. Licenses, Regulatory Approvals and Agreements:

By utilizing our existing electric infrastructure with fiber attached to poles, we anticipate few issues with communication rights-of-way. No regulatory approvals, licenses or permits are anticipated for the completion of the project. All land-based equipment will be housed on properties currently owned by Consolidated Electric Cooperative.

36. Construction and Vendor Contracts

Consolidated Electric Cooperative will rely primarily on outside contractors and vendors for the construction and implementation phases should an award be granted. We have lined up several contractors ready and willing partners to execute our plan to meet our timeline. The contractors will be selected based upon experience and capabilities, as well as cost considerations.

Letters of intent and readiness by contractors and vendors have been received and have been attached for review.

Qualification of Management Team and Organizational Readiness

37. Management Team Resumes:

Please refer to upload section at the end of the document.

38. Organizational Readiness:

Consolidated Electric Cooperative (CEC) has in place the necessary components to construct and manage a fiber network. CEC has been in existence since 1936 and has constructed, operated and managed an electric-distribution system since its inception. This fiber project entails many of the same management functions required by the operation of an electric-distribution system.

Staff members include engineers, technicians, service personnel, and support staff with



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expertise in all areas of project design and management. Bright Choice is a wholly-owned subsidiary of CEC whose main business is an Internet provider with approximately 2,000 active accounts. In place throughout CEC and its subsidiary are the necessary pieces to provide fiber service from construction through sales and billing. While additional workload may require CEC to add staff, the base structure has been in place, tested, and used on a daily basis.

In 2007, CEC/BCI engaged the services of a consultant to develop a strategic plan for telecommunications for the Morrow County area. This plan included preliminary engineering studies of a fiber-optic-cable route through Morrow County, and will greatly decrease the preparation time necessary prior to construction.

Besides existing expertise, CEC has engaged another engineering-design group to finalize construction plans. Construction could begin as early as 90 days after the awarding of funds.

Other

39. Organizational Chart:

Please refer to upload section at the end of document.

40. Legal Opinion:

Please refer to upload section at the end of document

41. Government and other Key Partnerships:

In the fall of 2007 Consolidated Electric Cooperative engaged a consulting firm to develop a strategic telecommunications plan for our service area. Several public input forums were held as an avenue for stakeholders to become involved and help develop an overall strategic plan. Participants included village and county officials, schools, libraries, community hospital and health organizations, industry and public safety entities including fire and EMS. Letters of support can be found as attachments to the application.

DASH (Delaware Area Super Highway) a consortium of Consolidated Electric, OhioHealth, Delaware City, Delaware County, provides a point of presence and further connectivity to Columbus metro area as well as a connecting segment to the western portion of the fiber ring.



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OneCommunity - we will provide them a key link as an interconnection across our service area providing us with connectivity in all directions.

SOHCN -provides connectivity from our system to 33 counties in southeast Ohio.

TRECA -TriRivers Educational Computer Academy, we will sell/provide bandwidth at a lesser cost than current provider, linking TRECA to about school systems in the service area.

Letters of support can be found as attachments to the application.

42. Recovery Act and Other Governmental Collaboration.

On August 5, 2009, Consolidated Electric Cooperative (CEC) submitted an application for a Smart Grid initiative through the Department of Energy (DOE) under the American Recovery and Reinvestment Act (ARRA).The requested funding for the Smart Grid initiative is \$3 million. While both the Smart Grid and Middle Mile broadband projects can each stand its own merit, together they greatly enhance and compliment each other, resulting in greater efficiencies and strengths. These efficiencies and strengths are achieved through improved energy efficiency, data collection, and outage response, through increased cyber and physical security to best meet reliability concerns, and by providing a backbone of fiber connectivity to a large area of underserved population in Morrow County.

The construction of the middle mile fiber optic network on existing CEC infrastructure greatly reduces costs of both projects, leveraging federal funding, providing multiple benefits at a lesser cost than otherwise achieved separately. An example of these synergies is demonstrated during outage situations; CEC crews have the ability to address both electric and fiber outages simultaneously, resulting in decreased outage time for the fiber network as well as the electric system. The cost savings realized by the utilization of CEC pole attachments is approximately \$55,760 per year and results in a total savings of \$1,115,200 over the life of the project.

CEC was instrumental in forming the partnership of Delaware Area Super Highway (DASH) in 2008 and plays a vital role in its continued success. DASH is a consortium comprising Delaware County, Delaware City, Grady Memorial Hospital/Ohio Health and Consolidated Electric. DASH also plays an integral role in CEC's middle mile project by providing connection fiber at the southern terminus of the project. This project is a natural extension of DASH's goals and compliments their strategic plan.



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Community Involvement (BTOP Applicants Only)

43. Partnering with Disadvantaged Businesses

Currently there are two businesses (hotels) which have requested greater broadband speeds from our subsidiary BCI, which can not be provided. Letters of support have been requested and are forthcoming.

H. Project Budget

44. General Overall Budget



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| Budget | Loan Request | Grant Request | Equity | Debt | Bond | Other |
|---|--------------|---------------|--------|---------|------|-------|
| Network & Access Equipment (switching, routing, transport, access) | 313,579 | 231,776 | | 274,480 | | |
| Outside Plant (cables, conduits, ducts, poles, towers, repeaters, etc.) | 1,043,173 | 771,041 | | 913,103 | | |
| Buildings and Land – (new construction, improvements, renovations, lease) | | | | | | |
| Customer Premise Equipment (modems, set-top boxes, inside wiring, etc.) | | | | | | |
| Billing and Operational Support Systems (IT systems, software, etc.) | | | | | | |
| Operating Equipment | | | | | | |



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| | | | | | | |
|---|------------------|------------------|--|------------------|--|--|
| (vehicles, office equipment, other) | | | | | | |
| Engineering/ Professional Services (engineering design, project management, consulting, etc.) | 42,747 | 31,596 | | 37,417 | | |
| Testing (network elements, IT system elements, user devices, test generators, lab furnishings, servers/computers, etc.) | | | | | | |
| Site Preparation | | | | | | |
| Other | | | | | | |
| TOTAL BROADBAND SYSTEM | 1,399,499 | 1,034,413 | | 1,225,000 | | |



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Total Budget: \$ 3,658,912

45. Detailed Budget:

Please refer to upload section at the end of the document.

Sustainability

46. Reasonableness

Network Reasonableness

Consolidated Electric Cooperative’s construction of the North Central Ohio Regional Fiber Network, a middle-mile network running through Morrow County and portions of Delaware, Knox and Licking counties, will provide the 808 square mile funded and non-funded service area with an open access fiber backbone. This project will place 144 strands of fiber throughout a 166 mile network (134 ring miles) that will connect Consolidated Electric’s substations to enable Smart Grid technology rollouts, and to provide multiple locations for network interconnections that will support carriers and third parties who provide services in the funded and non-funded service areas.

Network Design, Implementation, Construction Costs, Revenues, and Budget Reasonableness

This project will:

- Utilize Consolidated Electric’s existing infrastructure to place fiber resources in effort to reduce construction costs on poles, eliminate the need for building interconnection structures, and eliminate ongoing pole rental costs.
- Connect electric substations to support Smart Grid technology. (An application for a Stimulus grant for Smart Grid metering equipment for homes and business has been submitted). Use of existing substation structures will eliminate the need to purchase separate “huts” to house the network electronics that are required to support Metro-Ethernet services and dark fiber distribution, further reducing costs of construction.
- Distribute a variety of services to support a non-exclusive, open architecture. The network will be partitioned approximately 1/3 for dark fiber sales to carriers which will generate



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a significant revenue stream immediately upon network completion; 1/3 to be retained for Consolidated Electric Cooperative use and to support “regionalization of local government communication services”; and 1/3 for Metro-Ethernet services to connect to community, educational, medical, and local government anchor institutions, as well as to be resold through 3rd party ISP’s, WISP’s, and data centers to bring enhanced services to the region.

Shovel Ready – Construction 93% complete in 9-12 months

- Consolidated Electric Cooperative has contractors available (see attached contractor letters) to begin building the network as soon as funding is approved. Fiber supplies are already identified for expedited delivery.
- Utility pole access, rights-of-way, utility permits, railroad, and interstate-highway crossing arrangements are already established. These arrangements alone will reduce total construction time to 9-12 months from date funding is awarded for 100% completion of the project.

Funded and Non-funded Service Area

The purpose of the Northern Central Ohio Rural Fiber Optic Network (NCORFON) is to provide multiple means to access fiber based Ethernet technologies that previously did not exist in the area. NCORFON has been carefully designed to utilize the strategic assets and Smart-Grid initiatives of Consolidated Electric and at the same time, focus the “funded portion” of the network to run through areas that are over 80% unserved and underserved. At the same time, the interconnection points will be supporting neighboring networks already in the planning and funding stage, such as the SOHCN and OneCommunity networks.



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47. Historical Financial Statements:

Please refer to upload section at the end of the document.

48. Broadband Subscriber Estimates:

Please refer to upload section at the end of the document.

49. Other Services:

Please refer to upload section at the end of the document.

50. Pro Forma 5-Year Financial Forecast and Assumptions:

Please refer to upload section at the end of the document.

**51. Commitment of Capital Funding Support
COMMITMENT OF CAPITAL FUNDING**

For Consolidated Electric Cooperative Middle Mile Stimulus Project

- Name of Party CoBank
 5500 South Quebec Street
 Greenwood Village, CO 80111
- Funding Amount 33% & \$1,225,000
- Type of Funding Debt
- Key Financing Terms and Conditions Short Term at first and at completion of project it will be switched to Long Term. We have \$5 M Short Term availability.
- Use of Funding Basically will be used for Working Capital

BTOP Requirements



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52. Matching Funds:

- a. Cash: \$ 731,800.00
- b. In-Kind: \$.00
- c. Percent of Total Project Cost: 20

53. Demonstration of Financial Need:

Substantiation for Funds for North Central Ohio Rural Fiber Optic Network :

The budget for CEC is for the current calendar year, 01/01/09 – 12/31/09.
We were expecting to make \$1,400,000.

As the year has progressed, we are experiencing a lesser need for KWH by our members because of the mild temperatures and the need to conserve due to the recession that we are experiencing. Consequently our sales have been reduced.

More significant however, is that our budgeted profit includes \$1,100,000 of patronage that was anticipated to be received from our generation and transmission power supplier; that patronage is now going to be “0” as we have been informed that they will have a loss for the year.

Moreover, even though we have gone through drastic cost cutting measures, such as the lay-off of people, we are now expecting a loss or at best a breakeven situation for the year.

The current unemployment rate for Morrow County in Ohio, where more than 50% of our members reside, is now over 11%. This Optic Network project which will substantially enhance the economic development in Morrow and surrounding counties would not be accomplished without stimulus funds.

This project is dependent upon receiving the requested grant amount. A sustainable business plan can not be made for project construction with out the requested funds.

54. Unjust Enrichment

This project is not seeking any other funding other than what is being applied for through RUS/NTIA.

55. Disclosure of Federal and/or State Funding Sources



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As stated in question 42, Consolidated Electric Cooperative has applied for a Smart Grid grant under the Department of Energy. Other than that application, there are no current, pending or projected state or federal funding sources.

I. Self Scoring – BIP Only Self Scoring

56. Self Scoring Sheet



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| Criteria | Method | Points | Self Scores |
|--|--|-----------|-------------|
| <u>PROJECT PURPOSE</u> | | | |
| Proportion of Rural Residents Served in Unserved Areas | 1 point for every 10,000 unserved households | Up to 5 | 0 |
| Rural Area Targeting | 1 point for every 5% increase in the rural service area up the minimum 75% rural area requirement | Up to 5 | 5 |
| Remote Area targeting | 1 point for every 50 miles a service area is located from a non-rural area | Up to 5 | 0 |
| Title II Borrower | If you are or were a Title II borrower | 5 | 0 |
| Recovery Act and other governmental collaboration | 1 point will be awarded for each governmental or Recovery program the applicant is partnering with | Up to 5 | 3 |
| <u>PROJECT BENEFITS</u> | | | |
| Performance of the offered services | If a last mile wireline project delivers 20M to household – if a last mile wireless projects delivers 2M to end-user – if a middle mile projects delivers 100M to end points | 10 | 10 |
| Affordable of services offered | Points awarded based on the proposed rate structure and the logistics of the proposed service area | Up to 5 | 5 |



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| | | | |
|---|--|----------|----|
| Choice of service provider | If the proposed infrastructure is available to be used by multiple service providers | 5 | 5 |
| Critical Community Facilities | If discounted rate packages at least 25% lower than advertise rates are available to critical facilities | 5 | 5 |
| <u>PROJECT VIABILITY</u> | | | |
| Applicant's organizational capability | Points will be awarded on the strengths and accomplishments of key management | Up to 12 | 12 |
| Community Support | If a letter of support has been received from a designated representative of the community for every community in the proposed service territory | 2 | 2 |
| Ability to promptly start project | If the applicant can demonstrate that all licenses and regulatory approvals have been received, contractors and vendors are ready to enter into contracts, and equity has been deposited into applicant accounts | 10 | 10 |
| Socially and economically disadvantaged small businesses (SDB), as defined by section 8(a) of the Small Business Act, 15 U.S.C. §637. | If the applicant is a Section 8(a) entity | 1 | 1 |
| <u>PROJECT BUDGET AND SUSTAINABILITY</u> | | | |
| Reasonableness of the budget | Points will be awarded based the | Up to 5 | 5 |



**Broadband Infrastructure Application
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|--|--|--|--|
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| Funding Opportunity: Broadband Initiatives Program and Broadband Technology Opportunities Program | | Applicant Organization: Consolidated Electric Cooperative Inc | |
| Task: Submit Application - Infrastructure Programs | | Applicant Name: Mr. Wes Allan Reinhardt | |

| | | | |
|---|--|-----|----|
| | adequacy of the proposed budget | | |
| Leverage of outside resources (outside funding/financing requested) | (i) 10 points if this ratio is greater than 100% (ii) 7 points if this ratio is between 100% and 75% (iii) 5 points if this ratio is between 75% and 50% (iv) 3 points if this ratio is between 50% and 25% (v) 1 points if this ratio is lower than 25% | 10 | 5 |
| Extent of grant funding (Grant funds/loan funds) | (i) 0 points if this ratio equals 100% (ii) 1 points if this ratio is between 100% and 75% (iii) 3 points if this ratio is between 75% and 50% (iv) 5 points if this ratio is lower than 50% (v) 10 points if no grant funds are requested | 10 | 3 |
| Total Points | | 100 | 71 |



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J. BTOP Certification Requirements

Certification (Requested for BTOP)

Please refer to upload section at the end of the document regarding following uploads.

1. U.S. Department of Commerce, Broadband Technology Opportunities Program
2. SF-424D Assurances—Construction Programs (Schedule N)
3. CD-511, Certification Regarding Lobbying (Attachment O)
4. SF-LLL, Disclosure of Lobbying Activities (Attachment P)
5. CD-512, Certification Regarding Lobbying—Lower-Tier Covered Transactions (Attachment Q) This certification will not be required until the time of the grant award, because it applies to subcontractors, etc.

K. BIP Certification Requirements

Certification (Requested for BIP)

Please refer to upload section at the end of the document regarding following uploads.

1. Equal Opportunity and Nondiscrimination Certification
2. Certification Regarding Architectural Barriers
3. Uniform Relocation Assistance and Real Property Acquisition - Policies Act of 1970 Certification
4. Certification Regarding Debarment, Suspension, and Other Responsibility Matters – Primary Covered Transactions
5. Certification Regarding Lobbying for Contracts, Grants, Loans, and Cooperative Agreements



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6. Network Design and Implementation Plan Certification (to be complete for projects requesting more than \$1 million in federal assistance)

L. Schedules

Schedule: A-1 Congressional Districts

1. State the Congressional District of the Applicant's headquarters

Ohio - 4

2. State the Congressional District for each area covered by the Project.

Ohio - 4

Ohio - 12

Ohio - 15

Ohio - 18

M. Proposed Funded Service Area Details (BIP & BTOP)

13. Proposed Funded Service Area (BIP - Last Mile Projects):

Proposed Funded Service Area Name:

Census Blocks in Proposed Funded Service Area:

Community Name:

Rural Classification of the Community:

BIP - Service Status:

| |
|--|
| BIP - If Service Status is "Underserved" please select at least one applicable option from this list. |
|--|



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BTOP – Service Status:

| |
|---|
| BTOP - If Service Status is "Underserved" please select at least one applicable option from this list. |
|---|

Total Square Miles of Community:

Total Population :

Total Number of Households:

Total Number of Businesses:

Total Number of Critical Community Facilities, Anchor Institutions and Public Safety Entities:

14. Proposed Service Area (BTOP - Middle Mile Project):

Middle Mile Span Name:

North Central Ohio Rural Fiber Optic Project

Census Blocks in Middle Mile Span: 6011, 2034, 2038, 2039, 2040, 2042, 2044, 2045, 3000, 3001, 3072, 3073, 3074, 3078, 3079, 4038, 4039, 4040, 4041, 4042, 4043, 4044, 4045, 4046, 4047, 4048, 4050, 4051, 4052, 4053, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 2000, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2027, 2028, 2029, 2030, 2031, 2032, 2035, 2036, 3000, 3001, 3002, 3003, 3004, 3005, 3006, 3009, 3017, 3018, 3019, 4000, 4002, 4003, 4004, 4005, 4006, 4007, 4008, 4009, 4010, 4011, 4012, 4013, 4014, 4015, 4016, 4017, 4019, 4020, 4022, 4035, 4036, 4037, 4038, 4039, 4052, 4053, 4054, 4055, 1002, 1006, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1023, 1034, 1035, 1036, 1039, 1040, 1050, 1051, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1073, 1075, 1079, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2020, 2997, 2998, 2999, 3000, 3001, 3008, 3011, 3012, 3013, 3015, 3016, 3017, 3019, 3020, 3021, 3022, 3023, 3024, 3031, 3044, 3045, 3048, 3049, 3052, 3053, 3054, 3055, 3059, 3060, 3064, 3065, 3066, 3067, 3070, 3994, 3995, 3996, 3997, 3998, 3999, 4000, 4001, 4002, 4003, 4004, 4005, 4006, 4007, 4008, 4009, 4011, 4012, 4013, 4014, 4015, 4017, 4018, 4023, 5000, 5001, 5002, 5003, 5004, 5005, 5006, 5007, 5008, 5009, 5010, 5011, 5012, 5013, 5014, 5015, 5016, 5017, 5018, 5020, 5021, 5022, 5024, 5029, 5063, 5997, 5998, 5999, 4043, 4045, 4046, 1003, 1004, 1005, 1006, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1019, 1024, 2014, 2015, 3016, 3017, 3018, 3020, 3021, 3022, 3023, 3024, 3025, 3026, 3027, 3028, 3029, 3030, 3031, 3032, 3063, 3064, 3065, 3011, 3012, 3013, 3014, 3015, 3016, 3017, 4003, 4004, 2032, 2033, 2037, 2038, 3041, 3042, 3044, 3045, 3046, 3047, 3048, 3049, 3050, 3051, 3054, 3055, 3056, 3057, 2004, 2018, 2019, 2022, 2023, 2024, 2025,



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2026, 2027, 2028, 2029, 2030, 2031, 2074, 2075, 2077, 2078, 3000, 3001, 3090, 3094, 4020, 4022, 4023, 4024, 4026, 4027, 4028, 4029, 1019, 1021, 1022, 1023, 1024, 1063, 1064, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 3056, 3057, 3058, 3059, 4001, 4002, 4003, 4004, 4005, 4006, 4007, 4008, 4009, 4010, 4011, 4012, 4013, 4014, 4015, 4016, 4017, 4018, 4019, 4020, 4021, 4022, 4023, 4024, 4025, 4026, 4027, 4028, 4029, 4031, 4032, 4033, 4034, 4035, 4036, 4037, 4038, 4039, 4040, 4041, 4042, 4043, 4044, 4045, 4046, 4047, 4048, 4049, 4050, 4054, 4058, 4059, 4060, 4061, 4062, 4063, 4064, 4065, 4066, 4067, 4068, 4070, 4074, 4075, 4076, 4077, 4078, 4999, 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1051, 1052, 1054, 1057, 1060, 1061, 1062, 1063, 1065, 1066, 1067, 1068, 1069, 1070, 3000, 3001, 3094, 3095, 1037, 2006, 2007, 2008, 2009, 2018, 2019, 2021, 2022, 2023, 2024, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2076, 2077, 2079, 2083, 3024, 3025, 3026, 3027, 3028, 3029, 3033, 3034, 3035, 3036, 3037, 3038, 4000, 4001, 4002, 4003, 4005, 4006, 4026, 4027, 4028, 4047, 4048, 4049, 4050, 4051, 4052, 4055, 4057, 4058, 4059, 5002, 5003, 5004, 5005, 5006, 5007, 5008, 5009, 5010, 5011, 5012, 5013, 5014, 5015, 5016, 5017, 5018, 5020, 5021, 5035, 5036, 5037, 5038, 5039, 5040, 5041, 5042, 5043, 5044, 5045, 5046, 5047, 5048, 5049, 5050, 5051, 5052, 5053, 5054, 5055, 5056, 5057, 5058, 5059, 5060, 5061, 5062, 5063, 5064, 5065, 5066, 5067, 5068, 5069, 5070, 5071, 5093, 5094, 5095, 5999, 1004, 1006, 1007, 1008, 1009, 1010, 1011, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1037, 1038, 1039, 1040, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2015, 2016, 2018, 2019, 2020, 2021, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2055, 2056, 2057, 2063, 2064, 2065, 2066, 2067, 2068, 2072, 2074, 3004, 3005, 3006, 1005, 1030, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1049, 1050, 1052, 1053, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 2033, 2034, 2035, 2036, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2998, 2999, 3000, 3001, 4037

Last Mile Service Area Name: North Central Ohio Region
Community Name: Morrow, North Delaware, West Knox, and Northwest Licking

County Areas

Rural Classification of the Community: Rural
BIP – Service Status: Underserved

| |
|--|
| BIP - If Service Status is "Underserved" please select at least one applicable option from this list. |
| No more than 50% of the households in the census-designated community [or other area] have access to |



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facilities-based, terrestrial broadband service at greater than the minimum broadband transmission speed;

BTOP - Service Status: Underserved

BTOP - If Service Status is "Underserved" please select at least one applicable option from this list.
No more than 50% of the households in the proposed funded service area have access to facilities-based, terrestrial broadband service at greater than the minimum broadband transmission speed;

Total Square Miles of Service Area: 808

Total Population : 104,747

Total Number of Households: 35,709

Total Number of Businesses: 2,001

Total Number of Critical Community Facilities, Anchor Institutions and Public Safety Entities: 49

N. Uploads

In order to improve system performance and help ensure that all applicants are able to complete their applications by the deadline, we have changed the way your application PDF is created. This PDF contains all of the information you entered throughout the Easygrants data entry screens. PDF copies of all documents that have been uploaded can be viewed and printed separately from the **Main page of the application after you submit**. These will continue to be available to you in read-only format after your application has been submitted.