



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

Submitted Date: 8/20/2009 11:09:46 AM	Easygrants ID: 1854
Funding Opportunity: Broadband Initiatives Program and Broadband Technology Opportunities Program	Applicant Organization: Public Utility District of Pend Oreille County
Task: Submit Application - Infrastructure Programs	Applicant Name: Mr. Joe Onley

Table of Contents

- A. General Application Information**
- B. Eligibility Factors**
- C. Executive Summary**
- D. Proposed Funded Service**
- E. Proposed Service Offering**
- F. Technology Strategy**
- G. Project Milestones Completion Factors**
- H. Project Budget**
- I. Self Scoring**
- J. BTOP Certification Requirements**
- K. BIP Certification Requirements**
- L. Schedules**
- M. BIP – BTOP Service Area Details**
- N. Uploads**



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A. General Application Information

1. Applicant Information	
1-A. Name, Address, and Federal ID for Applicant	
i. Legal Name:	Public Utility District of Pend Oreille County
ii. Employer/Taxpayer Identification Number (EIN/TIN):	916001039
Street 1:	130 N Washington Ave
Street 2:	P. O. Box 190
City:	Newport
County:	Pend Oreille
State:	WA
Country	United States
Zip/Postal Code:	99156

1-B. Name and Contact Information of Person to be Contacted on Matters Involving this Application:	
Prefix:	Mr.
First Name:	Joe
Middle Name:	
Last Name:	Onley
Suffix:	
Telephone Number:	509-447-9333
Fax Number:	
Email:	jonley@popud.org
Title:	Community Network System Manager



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1-C. Other Required Identification Numbers	
i. Organizational DUNS:	003786126
ii. CCR # (CAGE):	00R88
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). **Political subdivision of a State, including Local or County Government**

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:

2. Project Description & Project Title

2-A. Project Title: Pend Oreille County PUD Broadband Network

2-B. Project Description: Development of Ethernet over fiber, last mile, open access network for underserved areas of Pend Oreille County. System will be integrated into the existing 125-mile backbone and a portion of the network will be used to provide redundancy and diversity to the existing transport backbone.



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3. Application ID for Multiple Submissions for Identified Service Areas:

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 - Last Mile Non-Remote Area

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.

Last 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:

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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<p>complete by the end of the 3rd year from the award date.</p>
<p>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.</p>
<p>The Applicant provides two-way data transmission with advertised speeds of at least 768 kbps downstream and 200 kbps upstream.</p>
<p>Applicant understands and agrees to comply with the nondiscrimination and interconnection obligations outlined in the NOFA.</p>
<p>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.</p>

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



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Additional BTOP Factors Selected By Applicant	
<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

7-k. Cost Sharing/Matching Fund Explanation

C. Executive Summary

Executive Summary of Project for BIP and BTOP:

8. Infrastructure Projects Executive Summary

a. Opportunities the proposed system seeks to address: The Public Utility District No. 1 of Pend Oreille County (District) operates, among other things, an open-access broadband network on a wholesale basis in a rural area served by three traditional phone companies that, over the years, have failed to keep pace with upgrading their networks and delivering advanced services at affordable rates. Thus, the District’s proposed Project qualifies as a predominately last-mile project with a middle-mile component that will, if approved for a grant under the Recovery Act, provide necessary redundancy to the District’s existing high-speed fiber network, as well as facilitate the last-mile delivery of advanced broadband services to an



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underserved rural area at affordable, competitive rates. And, significantly, owing to the District’s long-term history of providing its rural communities with essential utility services when nobody else wanted to, the District enjoys a “shovel-ready” path throughout its entire service area, as it will not have to undergo the lengthy process of securing rights-of-way—making the proposed Project a natural fit with the District’s existing electric, water, and wholesale broadband services.

b. General description of the proposed funded service area: The District serves the entire rural Pend Oreille County, which, as the most northeast county in the State of Washington, shares borders with Idaho and Canada. Nearly the size of Rhode Island, Pend Oreille County comprises an area of 1,400 square miles. During the period 1970 to 2000, Pend Oreille County’s population grew by 95 percent and, based on the 2000 census, had a population of 11,732. Estimates place the current population at 13,000. The County has five incorporated areas, and Newport, the largest, serves as the county seat and home to a new community college.

With nine people per square mile, there are no stoplights within Pend Oreille County. Mining and forestry serve as the two main non-government industries in Pend Oreille County, but both have been adversely affected by the country’s recession, resulting in layoffs and the County’s unemployment rising to 13.5% as of June, 2009.

Pend Oreille County is also home to the Kalispel Tribe of Indians, who occupy 4,654 acres of reservation lands along ten miles of the Pend Oreille River, and own an additional 240 acres of reservation land north of Cusick, Washington.

While three local telephone companies also provide traditional phone service within Pend Oreille County, a formally-appointed citizens advisory committee essentially recommended last year that Pend Oreille County take appropriate steps to deploy a fiber optic broadband network along the District’s electric service route. Encapsulated, the Community Connect Committee recommended adopting a plan that would provide broadband services to serve all of Pend Oreille County. And, to be sure, the District’s proposed project would go a long way toward accomplishing that objective, but, prior to the grant opportunities made available by the Recovery Act to cover capital expenditures, the District was unable to pencil out an economically sustainable plan for last-mile deployment.



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Phase 1 of the proposed Project would extend the middle-mile backbone to provide the necessary redundancy, reliability and connectivity to three new locations, while Phases 2 and 3 would entail the installation of last-mile cabinets and fiber optic cable. Phases 2 and 3 would exclude the service area of Pend Oreille Telephone Company, a RUS borrower.

c. Number of households and business passed: Upon completion, the proposed Project will pass over 5,000 homes and businesses.

d. Number of community anchor institutions, public safety entities, and critical community organizations passed and/or involved with the proposed project: The proposed Project will involve all four of Pend Oreille County’s healthcare providers; all three of Pend Oreille County School Districts; the Riverside School District; all four Pend Oreille County Libraries; the Pend Oreille County government buildings; the Kalispell Tribe; the Newport Community Hospital Doctor’s Network (fiber to doctors' homes); and a constellation of significant commercial users, including, among others, Vaagen Brothers (a wood products processor), Tech Cominco (zinc mining), the Spokane Community College’s Institute for Extended Learning in Newport and Ione, AT&T cell tower, POVN wireless tower, and two cable TV systems.

All of the foregoing entities are currently connected to the District’s existing fiber backbone, which, as a single “thread,” lacks redundancy—making the entire existing network highly vulnerable to a system outage in the event of a cable break at a single location. The proposed Project will, upon completion, resolve this deficiency, ensuring that emergency responders and businesses alike can look forward to secure, uninterrupted services during moments of critical need and peak use.

e. Proposed services and applications for the proposed funded service areas and users: As a wholesale provider to other carriers and service providers, the District’s open-access service offerings will include (a) residential and business class broadband services, starting at symmetrical speeds of 1 Mbps and available up to a full gigabit; (b) point-to-point Ethernet transport; and (c) virtual private networks. The proposed Project, upon completion, will easily accommodate such broadband applications as voice-grade services, video services, video conferencing, security services, data storage, web hosting, distance learning, telemedicine, and automated meter intelligence services.

f. Approach to addressing the non-discrimination and interconnection obligations: As further



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detailed in response to Application Item 22, the District agrees to (i) adhere to the principles contained in the FCC’s August 5, 2005 Internet Policy Statement; (ii) not favor any lawful Internet applications and content over others; and (iii), in the event it’s approved for a grant, require service providers purchasing the District’s wholesale services to adhere to the same principles. As a public utility district in the state of Washington, the District is only authorized to provide services on a wholesale basis to Internet service providers and other carriers, resulting, by its very nature, in an open-access network.

g. Type of broadband system that will be deployed: The District’s proposed fiber-to-the-premises Project will transform the existing fiber “backbone” network into a diverse path that will provide redundancy to the core middle-mile portion of the network. Thus, the District’s single “thread” network would no longer be vulnerable to system-wide outages in the event of a cable break at a single location. Also, the system design will allow the District to provide dedicated bandwidth to the end-user customer, while the network platform will easily upgrade to meet the inevitable growing demand for greater bandwidth. In a nutshell, the proposed network’s unified standards will allow multiple broadband applications to “ride” the network, as well as ensure that the proposed Project qualifies as a “next generation” network.

h. Qualifications of the applicant that demonstrate the ability to implement and operate a broadband infrastructure, and/or be a sustainable broadband service provider: Established in 1936 and commencing electric and water utility operations in 1948, the District is comprised of three primary operating systems: the Box Canyon Hydro System, which produces hydroelectric power; the Electric System, which distributes electricity to approximately 8,500 customers; and the Water System, which owns and operates nine individual District water distribution systems.

In 1996, the District, taking full advantage of its existing rights-of-way, began developing a sophisticated broadband communications system to keep its electric system safe, reliable, and cost effective. It currently owns and operates approximately 125 miles of Fiber Optic Backbone, stretching from Spokane to near the Canadian border, and has made the excess system capacity available to the rural communities of Pend Oreille County. As a consequence, and consistent with Washington state law that restricts PUDs from offering retail telecommunications services, the District now provides wholesale services to seven Internet service providers over its own fiber backbone. In addition, the District relies on this network



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for internal communications, as well as provides dark fiber services to major incumbent and cellular telephony providers. Given this track record of over 60 years operating experience in serving both the public and the public interest, the District has demonstrable ability to implement and operate broadband infrastructure on a sustainable basis.

i. Overall infrastructure cost of the broadband system: \$34,157,255, which includes (a) \$5,825,811.76 for the 75-mile Phase 1 middle-mile fiber backbone extension; (b) \$16,814,342.67 for the 283-mile Phase 2 last-mile fiber network; and (c) \$11,517,100.76 for the 207-mile Phase 3 last mile fiber network.

j. Overall expected subscriber projections for the project:

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
990	1,462	1,625	1,715	2,536	2,714	2,977	3,106	3,225	3,438	3,560

k. Number of jobs estimated to be created or saved as a result of this project:

Based on the “Simple Rule for Estimating Job-Years Created by Government Spending” at Table 5 of the White House web link for Estimates of Job Creation from ARRA, the District estimates that spending the overall infrastructure cost of \$34,157,255 over two years will result in 371 jobs, with 237 considered direct and indirect jobs and 134 considered induced jobs.

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

9. BTOP Statutory Purpose:



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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.
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:

Background

In 1996, the Public Utility District No. 1 of Pend Oreille County (Applicant, District, or Pend Oreille PUD), taking full advantage of its existing rights-of-way, began developing a broadband communications system to keep its electric system safe, reliable, and cost effective. As a consequence, the District now currently owns and operates approximately 125 miles of Fiber Optic Backbone on an open-access basis, making the excess system capacity available to the underserved rural communities of Pend Oreille County on a wholesale basis (consistent with Washington state law that restricts PUDs from offering retail telecommunications services). That is, in addition to relying on this network for internal communications, the District uses it to provide wholesale services to seven Internet service providers, as well as provides dark fiber services to major incumbent and cellular telephony providers in a rural area served by three traditional phone companies.

- a) The District’s proposed Project both (i) addresses a compelling problem and (ii) presents an opportunity consistent with the BTOP statutory goals, offering an effective solution to that problem in an underserved area.



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However, while the Applicant’s single “thread” backbone system extends from Spokane to near the Canadian border, its lack of system redundancy makes it vulnerable to system-wide outages in the event of a cable break at a single location. Owing to the lack of a redundant path, such a cable break could take down the entire network—with adverse consequences to both emergency responders and area businesses. Given the health, safety, and public welfare interests that demand the uninterrupted operation of the District’s vital broadband communications network, path redundancy has long been recognized as an essential goal in the long-term operation of fiber-based networks. Perhaps even more significantly, however, resolving this compelling problem presents an opportunity consistent with the BTOP statutory goals, because the District’s proposed funded service area for deployment of a last-mile network qualifies as underserved. Thus, in addition to advancing the BTOP statutory priority of stimulating the demand for broadband, economic growth, and job creation, the proposed project advances the statutory priority of providing improved access to broadband service to consumers residing in underserved areas.

b) Project offers an effective solution to the problem and addresses the opportunity.

To resolve the District’s critical network issue, the proposed Project—which qualifies as a predominately last-mile project with a middle-mile component—would provide the necessary redundancy to the District’s existing high-speed fiber network, as well as facilitate the last-mile delivery of advanced broadband services to an underserved rural area at affordable, competitive rates. Indeed, the Applicant’s proposed fiber-to-the-premises Project would transform the existing fiber “backbone” network into a diverse path that will provide redundancy to the core middle-mile portion of the network. Thus, the Applicant’s single “thread” network would no longer be vulnerable to system-wide outages in the event of a cable break at a single location.

And, as an added benefit, by providing path redundancy, the proposed Project will also pass more than 5,000 homes and businesses that currently have no access to facilities-based, terrestrial broadband service.

c) Proposed solution demonstrates broad significance and includes development that can be replicated to improve future projects.

The proposed solution demonstrates broad significance because it eliminates an essential



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limitation in the existing fiber network that all of the community anchor institutions, public safety entities, and other critical community support organizations currently rely on in rural Pend Oreille County. And, in leveraging those existing facilities, the proposed Project would also extend the reach of that network to more than 5,000 additional homes and businesses. And, as a matter of development that can be replicated to improve future projects, the network platform will easily upgrade to meet the inevitable growing demand for greater bandwidth, providing a further foundation for community anchor institutions—to say nothing of existing and new service providers—to upgrade, respectively, their own networks and level of services.

d) The proposed funded service area qualifies as an underserved area.

Per the Applicant’s discussion at Item 17, the proposed funded service qualifies as an underserved area.

e) The extent to which the project addresses more than one statutory purpose.

As was noted above, the proposed Project addresses more than one statutory purpose, as it will (1) improve access to broadband service to consumers residing in an “underserved” area; and (2) stimulate the demand for broadband, economic growth, and job creation. Further, owing to the prospect of path redundancy and a significantly extended last-mile network, the project will also improve access to, and the use of, broadband service by public safety agencies, the Kalispel Tribe of Indians, which qualifies as a vulnerable population, and other community support organizations, including, among others, schools, libraries, medical and healthcare providers, and community colleges.

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

Since the inception of its fiber optic backbone network in 1996, the Public Utility District No. 1 of Pend Oreille County, WA (the “District”) has demonstrated an unwavering commitment to the schools, libraries and healthcare institutions located throughout the county. The existing network—via fiber spurs off the backbone—serves each and every school, library and hospital facility in the service area, including the Newport Community Hospital Doctor’s Network, which provides fiber directly to physician residences. Specifically, the District’s network serves the four branches of the Pend Oreille County Library, which offers public-use computers for its patrons. The District network also serves the elementary, middle and high schools of all three school districts within the county, the



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Riverside School District, as well as Newport College Center and North Pend Oreille County Center (Ione), both of which are affiliated with Community Colleges of Spokane’s Institute for Extended Learning. With respect to health care, the District’s network serves the Newport Community Hospital, which offers a state-of-the-art 24-bed Trauma Level IV facility, with a 24-hour emergency room, as well as Family Medicine Newport, Family Health Center Newport, and Selkirk Community Health Center.

The practical, positive impact of the District’s dedication to these community-critical facilities was noted in a community broadband study:

For several years, residents in the rural communities of Ione, Metaline, and Metaline Falls in the state of Washington had to drive one hour each way to the nearest pharmacy to fill a prescription. Using the fiber optic system installed by Pend Oreille Public Utility District, the Community Health Association of Spokane installed a telepharmacy unit in the Ione, Washington, local health clinic to dispense medications directly to the patients, eliminating the two-hour drive for rural patients. See Community Broadband: Separating Fact from Fiction, January 2004, American Public Power Association, at p. 3.

The District’s application includes a funding request for network enhancements that would provide path redundancy for the current fiber optic backbone serving the schools, libraries and healthcare institutions in the Proposed Funded Service Area. Such redundancy would address the vulnerability of the existing “single thread” network. Currently, a cable cut to any part of the network will cause the entire network to suffer an outage.

In addition to fortifying the existing network serving schools, libraries and healthcare providers, the District’s proposed network will deliver fiber-based broadband to over 5,000 homes and businesses. The District’s fiber-based middle-mile and last-mile network will provide the foundation for any number of bandwidth-intensive advanced applications in health care and education, as well as facilitate more basic, but nonetheless essential, needs such as online homework help and email communications between patients and health care providers.

The District’s original fiber optic backbone design ensured inclusion of schools, libraries and healthcare institutions; the District desires to further enhance its commitment to these key constituencies by protecting them from the risk of network outages. The District’s proposed last-mile network will also set the stage for residents to be able to access vital health care, education and library services from their homes.



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D. Proposed Funded Service Area

12. Proposed Funded Service Area Maps:

12-A. Service Area Map (Reference Number): **0165-175D-44DB-AB14**

12-B. Is the applicant is seeking a waiver for providing less than 100% coverage of a census block. **Yes**

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):

Public Utility District No. 1 of Pend Oreille County, WA (the "District") seeks BIP and/or BTOP funding for its entire proposed last-mile network and costs associated with path redundancy for its existing middle-mile network. The District's existing middle-mile transport network is contained within a portion of the service area of Pend Oreille Telephone Company (POTC), and, because POTC is a current RUS borrower, the District has excluded the POTC service area from its proposed last-mile network. Phase 1 of the proposed Project entails establishing path redundancy for the District's existing middle-mile fiber optic backbone and will, technically-speaking, result in nominal fund expenditures in the POTC service area; however, the POTC service area is excluded from the Phase 2 and 3 last-mile network deployment.

The boundaries of the Pend Oreille Telephone Company service area do not coincide with census block boundaries. Therefore, the following information is provided as a reasonable estimate by the District based on 2000 Census data relating to the census designated communities of Cusick, Ione, Metaline and Metaline Falls, all of which are served by the District's existing network and all of which fall within POTC's territory, and will therefore be excluded from the District's last-mile funding request.

Total population using the latest decennial Census: 1,076

Total number of households: 628 (household units)

Total number of businesses: 29



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Total subscribers: 657

16. Coverage Waiver:

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

Yes

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

17. Methodology for Area Status:

1. The Proposed Funded Service Area is 100% Rural.

According to the 2000 Census, the population of all of Pend Oreille County was 11,732. The 2008 Census estimate shows an increase in population to 12,859. The Proposed Funded Service Area (PFSA) excludes the portion of the county that is within Pend Oreille Telephone Company's (POTC) service area, based on the District's understanding that POTC is a RUS borrower. Based on the BroadbandUSA mapping tool, the PFSA consists of a total population of 8,093, and the District's analysis of its PFSA revealed a 2000 Census population of 8,024. Data provided to the District from the County indicates that as of 2008, the estimated population in the PFSA has increased to roughly 9,300. To be sure, even if the PFSA covered the entire county, the area would still qualify as rural. Moreover, the PFSA is not adjacent to or contiguous with a city or town that has a population of greater than 50,000 inhabitants.

2. Approximately 80% of the Proposed Funded Service Area is Unserved, Qualifying the Proposed Funded Service Area as Underserved.

Census 2000 Data - Household Units

Population	Household Units	Unserved	Served %	Underserved
8024	4266 3446	820	80.78%	

Census 2000 Data - Households

Population	Household Units	Unserved	Served %	Underserved
8024	3131 2371	760	75.73%	

Mapping Tool Data - Household Units

Population	Household Units	Unserved	Served %	Underserved
8093	4277 3437	840	80.36%	



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Submitted Date: 8/20/2009 11:09:46 AM	Easygrants ID: 1854
Funding Opportunity: Broadband Initiatives Program and Broadband Technology Opportunities Program	Applicant Organization: Public Utility District of Pend Oreille County
Task: Submit Application - Infrastructure Programs	Applicant Name: Mr. Joe Onley

Newport, Washington is the only area in the District’s PFSA with confirmed broadband service. The District has confirmed through phone calls, reports from DSL aggregators, and long-standing local knowledge, that DSL is only available out of Verizon’s Newport Central Office. In addition, Pend Oreille Valley Networks (“POVN”), a wireless ISP, covers the Newport DSL footprint with minimal scattered offerings in only a few areas outside the DSL footprint. According to the 2000 Census, Newport City contains 760 households and 820 household units.

The District notes that the difference between the underserved population using “household units” versus “households” appears to be statistically significant, and, in the case of “households” nearly outcome determinative as to whether the PFSA is eligible under BIP as a rural area that is at least 75% unserved or underserved. The District makes this application to both BIP and BTOP out of an abundance of caution, but questions whether the rural area designation is appropriate to the PFSA.

18. Middle Mile Benefits

E. Proposed Service Offering

19. Broadband Service Offerings for Last Mile Project:

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

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



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22. Description of Network Openness:

The Public Utility District No. 1 of Pend Oreille County, WA (“Applicant”) agrees to (i) adhere to the principles contained in the FCC’s Internet Policy Statement (FCC 05-151, adopted August 5, 2005); (ii) not favor any lawful Internet applications and content over others, and (iii), in the event it’s approved for a grant, require providers purchasing wholesale services to adhere to the same principles, to the extent legally permissible and required. As a public utility district in the state of Washington, Applicant is only authorized to provide services on a wholesale basis to Internet service providers and other carriers (Revised Code of Washington § 54.16, et seq.).

Applicant currently displays its Community Network System-Broadband Communications Policies and Fees document (CNS Policies) on the Applicant’s website, at <http://www.popud.com/CNSPoliciesandFees.pdf>. Applicant does not currently employ any business practices or technical mechanisms, other than standard best efforts Internet delivery, to allocate capacity or differentiate among applications, providers, or sources. Applicant anticipates updating its CNS Policies in the near future to include generally accepted technical measures designed to ensure acceptable service levels to all customers, such as caching and application- neutral bandwidth allocation, as well as measures to address spam, denial of service attacks, illegal content, and other harmful activities. Applicant will notify all wholesale service providers of any changes to its CNS Policies.

Applicant’s proposed network will connect to the public Internet via a physical connection in the U.S. Bank Building at 422 W. Riverside Avenue, Spokane, WA 99201, which is the current location for such physical connectivity on Applicant’s existing network.

Given the wholesale services limitation imposed by Washington state law, Applicant’s broadband network is, by its very nature, open access. As stated in the Applicant’s CNS Policies, service providers must meet the following minimum qualifications to purchase wholesale services on the Applicant’s network:

- (a) Proof of liability insurance.
- (b) UBI (business license) number.
- (c) 24x7 technical and customer support ability (provide local access number(s)).
- (d) Ability to install and provision consumer services.



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(e) Operational billing and collection administrative functions, samples to be provided upon request.

(f) Proof or statement of intent to operate as a telecom or Internet Service Provider (ISP).

(g) Have, or have the qualifications to obtain, the Federal Communications Commission (FCC) Universal Services Administration Company (USAC) Service Provider Information Number (SPIN) to qualify to provide services to eligible entities.

To the extent legally permissible and required, Applicant will require service providers purchasing wholesale services on the ARRA-funded network to comply with the interconnection requirements contained in the Notice of Funds Availability.

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):

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 the project facilities at reasonable rates and terms.
Commit to binding private arbitration of disputes concerning interconnection obligations.



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25. Interconnection Obligations Middle Mile Applicants:

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Cost Effectiveness and Affordability

26. Cost per Household (BTOP only):

The proposed Public Utility District No. 1 of Pend Oreille County, WA (the “District”) network will pass at least 4,277 (based on the 2000 Census) household units at the end of the Phase 3 deployment and cost \$34,157,255 to complete. The average cost per subscriber will be approximately \$7,986 per household. Separately, the District’s estimate of 4,977 household units passed based on 2008 data from the County would yield a cost per household unit of \$6,863.

Considering just the \$6,831,451 (20%) contributed by the District the average cost per household is reduced to \$1,567 based on year 2000 household unit estimates and \$1,372 based on year 2008 household unit estimates.

The District considered the use of other technologies for delivering robust broadband connections but the terrain and density of the vegetation rendered last-mile wireless services ineffective, and the use of DSL technology would exclude those living more than a few miles from the central offices. Furthermore, the District wanted to create a platform that could grow with the ever-increasing bandwidth consumption by business and consumers and to provide a platform that was robust enough to encourage the deployment of other applications such as voice and high definition video to encourage health and educational initiatives.

27. Affordability

In researching DSL and Wireless broadband pricing in the service area (see Attachment C) as well as elsewhere in the United States, the typical entry level (1 Mbps) broadband connection ranges between \$29.99 per month and \$39.99 per month. Since the District is only authorized to provide wholesale services on the network, its wholesale price offerings had to be



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Task: Submit Application - Infrastructure Programs	Applicant Name: Mr. Joe Onley

at a point to allow the retail service providers to make a reasonable profit, as well as encourage them to switch their existing broadband subscribers onto the District’s broadband network. The entry-level rate for a service provider to purchase a fully symmetrical 1 Mbps connection is \$26 per month, residential. The connection fee is a fixed price of \$26, and service providers are allowed to sell connections of up to 100 Mbps at this base rate, plus additional incremental charges per Mbps. The District believes that this pricing model will drive consumption and facilitate creative and advanced uses of the available bandwidth. The variance between the low retail entry price of \$29.99 and the District’s \$26 monthly fee is approximately 40%. This price point, along with the ability to offer significantly more bandwidth at the same connection fee, should (i) allow the service providers to make a reasonable profit and (ii) allow the service providers to offer discounts to the end users, relative to competitive offerings. We believe that with an open-access wholesale network, competition will encourage both of the responses above to occur.

F. Technology Strategy

28. Technology Type:

Wireline - Fiber-optic Cable

Other:

29. System Design

The Public Utility District No. 1 of Pend Oreille County, WA’s (the “District” or “Applicant”) predominately last-mile infrastructure Project will consist of two components: (1) the extension of its existing middle-mile fiber backbone to provide connectivity to three new locations, as well as to provide critical network redundancy to its entire system; and (2) the installation of last-mile cabinets and fiber optic cable, which, upon completion and coupled with the Applicant’s existing fiber backbone network, will result in a last-mile network that delivers high bandwidth broadband access to households and businesses throughout the proposed funded service area in Pend Oreille County, Washington.



**Broadband Infrastructure Application
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Task: Submit Application - Infrastructure Programs		Applicant Name: Mr. Joe Onley	

The District, an electric utility, has adopted a fiber-based technology strategy that best coincides with the District’s existing facilities and services, including (1) a “shovel-ready” path throughout its entire underserved rural service area in the form of existing rights-of-way and extensive pole facilities; and (2) its 13-year track record relating to the deployment and operation of an existing fiber backbone network.

In a nutshell, then, with one exception noted below, this fiber-based wireline strategy will allow the District to maximize the use of its (1) existing assets, including, especially, its rights-of-way and pole facilities; and (2) existing wholesale services to seven Internet service providers who rely on the District’s existing fiber backbone to provide data services on a retail basis.

Middle-Mile Transport

The existing fiber backbone transits from the northern part of the County down to the Bell Substation in Spokane County. At the Bell Substation, the network is interconnected with NoaNet, another wholesale open-access provider. NoaNet provides the District with transport services to the U.S. Bank Building in Spokane, which is the region’s main “carrier hotel” and most prevailing location in Eastern Washington for carrier interconnections. In addition to NoaNet, IP access services can be purchased from other carriers at this location, including 360Networks, Level 3, Verizon Business, and AT&T. The District uses a Cisco 3560 as its interface module in Spokane.

In addition to the proposed fiber facilities that will provide redundancy and diversity on a majority of the network in the proposed funded service area, the District intends to install an 18 Ghz microwave link between the Bell Substation and Bare Mountain. This additional link will ensure that, upon completion, the resulting network enjoys full protection and route diversity from Box Canyon all the way back to the NoaNet interconnection at the Bell Substation. Since the NoaNet network is fully-protected out of the Bell Substation, the District’s proposed Project will extend the benefits of that fully protected Internet connection throughout the proposed funded service area.

The Phase One construction will include a diverse route from Bare Mountain, in the southern portion of the County, to Box Canyon in the northern part of the County. The build will



**Broadband Infrastructure Application
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Submitted Date: 8/20/2009 11:09:46 AM	Easygrants ID: 1854
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Task: Submit Application - Infrastructure Programs	Applicant Name: Mr. Joe Onley

provide physical diversity to a major portion of the network and help to eliminate single points of failure.

The current backbone is active, using the Cisco platform for optical transport and routing. The system design features Cisco 6509 switches at the core of the network, as well as the Cisco 3750 Series switch that will be deployed at each of the distribution locations along the network. Signals will be amplified along the way with the Cisco switch components. The proposed Project's Phase One optical and routing layer will be integrated into the existing backbone, adding core and edge devices as needed to create a fault-tolerant, self-healing architecture. The capital budget includes three 6509 switch chassis, two 6509 cards, twenty-one Cisco 3750 access switches, and twenty-one access distribution switches. These devices will power the core backbone and provide the necessary on-ramps for aggregation of the field nodes. Transport service providers will interconnect with the District's network via Gigabit Ethernet connections at either the core facilities or edge devices.

Last-Mile Connectivity

Phases Two and Three will focus on taking fiber from the field nodes to the customer premise in a hub-and-spoke configuration. The system is designed to dedicate two fibers from each field node to each customer premise location. This dedicated fiber distribution design will not only position the network for today's superior transport speeds, but ensure that it enjoys the ability to accommodate future system upgrades and bandwidth requirements.

The Wireless Transport Link

As mentioned above, the District will deploy an 18 Ghz licensed microwave link between the Bell Substation and Bare Mountain to provide diversity and redundancy into the network. The microwave will have the capability to provide up to 300 Mbps of bandwidth, though, after accounting for headers and network monitoring, the actual throughput will be closer to 250 Mbps symmetrical service. The District chose microwave technology to accomplish this vitally necessary redundant path, because, frankly, it's more economically feasible. That is, unlike the predominately last-mile component of the proposed Project, this microwave transport link from the Bell Substation to Bare Mountain will traverse an area that is outside its public utility district serving area where the District does not have either existing rights-of-way



**Broadband Infrastructure Application
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Submitted Date: 8/20/2009 11:09:46 AM		Easygrants ID: 1854	
Funding Opportunity: Broadband Initiatives Program and Broadband Technology Opportunities Program		Applicant Organization: Public Utility District of Pend Oreille County	
Task: Submit Application - Infrastructure Programs		Applicant Name: Mr. Joe Onley	

or pole attachment rights.

The system was designed to address the following factors:

- Fault tolerance through redundant paths. Path diversity is the only way to protect against commonly caused outages caused by such incidents as broken tree limbs and automobiles hitting pole lines.
- Hub-and-spoke architecture. The dedicated system capacity that's available through hub-and-spoke architecture is superior to the shared capacity of GPON type architectures. The hub-and-spoke configuration allows for uncongested throughput and simplifies upgrades because the network operator does not have to disrupt all of the users as would be the case on a shared system.
- Fiber superiority as a conduit for high-speed services. Fiber is, by far, superior in delivering large broadband pipes. WiMax and WiFi cannot offer speeds anywhere close to those of fiber-based systems, which limits the number of applications available to wireless customers, as is the case, say, with video services. Gigabit radios are available, but they are cost prohibitive and frequencies would be fully constrained long before the District could service the entire County.
- The advantages of Ethernet. The Ethernet transport layer simplifies interconnection and allows service providers to provide a multitude of services over the same transport medium. Voice, video and data can all be consolidated onto one single platform, thus producing cost and operational efficiencies.

The architecture was designed to accommodate the projected growth of broadband consumption being driven by such bandwidth intense applications as medical imaging, distance learning, IPTV, HDTV and on-line gaming. The core backbone could be upgraded quite easily, since the District keeps two spare fiber pairs for upgrades and maintenance. At any given point, additional optronic equipment could be added to run multi-ten gigabit wavelengths over a single fiber pair. This upgradability is one of the primary reasons the District has opted for fiber-based technology. The last-mile connections are similar to the middle mile, in that any given fiber pair could be upgraded to provide greater throughputs. And, since the entire



**Broadband Infrastructure Application
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Funding Opportunity: Broadband Initiatives Program and Broadband Technology Opportunities Program	Applicant Organization: Public Utility District of Pend Oreille County
Task: Submit Application - Infrastructure Programs	Applicant Name: Mr. Joe Onley

network operates a single transport layer, replacing routers would cause only minor downtime in the event that end users required more than a full gigabit of broadband connectivity.

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? **No**

Buy American Waiver Request – Legal Justification

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

34. Infrastructure Build-out Timeline:

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

35. Licenses, Regulatory Approvals and Agreements:

Public Utility District No. 1 of Pend Oreille County, WA (the “District”) currently maintains a 499-A carrier registration with the Federal Communications Commission (FCC). No registrations or authorizations are currently required by the Washington Utilities and



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Task: Submit Application - Infrastructure Programs	Applicant Name: Mr. Joe Onley

Transportation Commission in order for the District to provide the contemplated wholesale services on the proposed network.

The fiber portion of the proposed network relies entirely on poles, conduits and rights of way owned or controlled by the District. No new building or land leases are required to deploy the proposed network.

The wireless link between Bare Mountain and Bell Station (see Network Diagram at Item 30) will require the District to secure a 18Ghz fixed microwave license from the FCC and a county permit for site excavation and tower placement. Based on discussions with possible vendors to provide licensing, equipment and design/construction services, the District anticipates that the licensing and permitting process will take less than 60 days.

36. Construction and Vendor Contracts

Public Utility District No. 1 of Pend Oreille County (the “District”) will rely on outside engineering and construction vendors to deploy the proposed network facilities. As a public utility district and municipal corporation in the state of Washington, the District is obligated to adhere to the state’s public works competitive bid process. The District’s experience and successful completion of past fiber optic construction projects, provide evidence of its ability to comply with the realistic project budget and timeline information in this application. The District has engaged the services of ID Consulting Solutions, LLC (IDCS) to provide the preliminary engineering services necessary to prepare this application. As part of its due diligence in identifying budget costs and project timelines, IDCS has held discussions with and obtained prospective pricing and delivery information from equipment and construction services vendors. IDCS has obtained letters of support from North Sky Communications (a Quanta Services Company) (construction services), Cisco (equipment) and OFS (a fiber supplier), see attached.

Qualification of Management Team and Organizational Readiness



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Task: Submit Application - Infrastructure Programs	Applicant Name: Mr. Joe Onley

37. Management Team Resumes:

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

38. Organizational Readiness:

The District is well-situated to implement, manage and operate the proposed broadband network. The operations and maintenance of the fiber network will be synergistic with the operations and maintenance of the electric system since the majority of the fiber placement will be on District-owned and operated pole and conduit facilities. Operating policies and procedures are already in place for the existing 125-mile, middle-mile network, and employees are trained for routine and emergency maintenance procedures. The teams supporting the broadband effort will expand to account for the increased service territory and increased end user connections; however, the processes and procedures will be nearly identical to those in place today.

Governance & Management

The operation will be managed as a division of the District. Much like the power, water and natural resources divisions, the broadband division will report to the General Manager. Due to the existing middle-mile network, the essential day-to-day operating guidelines are already in place.

Deployment

In addition to developing and operating the electrical grid for more than 1,402 square miles, the District is well-versed in qualifying and selecting contractors for successful project completion. For planning purposes, the District engaged IDCS out of Boise, Idaho to assist with the network planning, engineering cost studies and structuring of the entire project management program. The team at IDCS has developed and deployed over 10,000 miles of fiber network consisting of long haul, middle-mile and last-mile facilities. The District and IDCS have identified reputable contractors with significant expertise in construction, optical network design and operating support systems deployment to assist with the key data points associated with the overall project plan, implementation and budget adherence. Contractor selection will be made in compliance with Washington State law.

Sales



**Broadband Infrastructure Application
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Task: Submit Application - Infrastructure Programs		Applicant Name: Mr. Joe Onley	

The District will operate the network on a wholesale, open access platform. All sales will be to qualified service providers. The process for becoming a wholesale service provider on the network is relatively simple, requiring basic business information, insurance and acceptance of the operating procedures. Today there are seven qualified service providers on the middle-mile transport network.

The sales team will target internet service providers, wireless carriers, wireline carriers and other entities that engage in retail sales requiring broadband and IP-based transport. Due to the fact that the network will be voice and video capable upon deployment, the sales team will work proactively to identify entities that intend to use the network for retail offerings.

Operations

The District has planned for the installation and training of the new operating support systems and billing systems early in the first phase of network engineering. This early placement will allow more than 120 days for deploying and training the required personnel. The number of actual customers will be limited to the number of qualified service providers utilizing the network. The service providers will be responsible for providing their own customer service, billing, collection and account management data for all of their end users. Secondly, the District will only be selling unmetered services to the wholesale providers, thus simplifying the billing and processing.

The network management systems will be centralized for access in the Network Operations Center (“NOC”). The NOC will monitor both the physical network layer and transport layer via network management systems developed by the respective vendors and integrated into the NOC. All hardware vendors provide a network management system that allows the NOC to remotely manage portions of the network. Generally speaking, the interfaces are GUI-based and take a moderate amount of training for proficiency.

Other



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Task: Submit Application - Infrastructure Programs		Applicant Name: Mr. Joe Onley	

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:

Public Utility District No. 1 of Pend Oreille County, Wa (the "District") has no formal partnerships with unaffiliated organizations in the project area; however, the District notes that its proposed network expansion plan was developed, in large part, in response to recommendations of the Community Connect Committee. The Committee was established at the request of Pend Oreille County leaders and consisted of key constituencies of the community. As a non-profit entity focused on delivering quality services rather than shareholder profits, the District is highly responsive to the needs of the community residents, whether commercial, residential, or community anchor institutions. The District also intends to work closely with its existing wholesale service provider customers, and other qualified service providers, to ensure robust availability of retail services on the proposed network. In addition, the District has received letters of support from the Kalispel Tribe, Newport Hospital and Health Services and Pend Oreille County Sheriff Department, which are attached under supplemental information.

42. Recovery Act and Other Governmental Collaboration.

The Project is not anticipated to receive funding from other Recovery Act programs or other state or federal development programs.

Community Involvement (BTOP Applicants Only)

43. Partnering with Disadvantaged Businesses

The District has not established contractual or partnering relationships with respect to the proposed Project with any socially and economically disadvantaged small business, as defined by section 8(a) of the Small Business Act, 15 U.S.C. 637.



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Funding Opportunity: Broadband Initiatives Program and Broadband Technology Opportunities Program		Applicant Organization: Public Utility District of Pend Oreille County	
Task: Submit Application - Infrastructure Programs		Applicant Name: Mr. Joe Onley	

H. Project Budget

44. General Overall Budget



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Task: Submit Application - Infrastructure Programs		Applicant Name: Mr. Joe Onley	

Budget	Loan Request	Grant Request	Equity	Debt	Bond	Other
Network & Access Equipment (switching, routing, transport, access)		4,553,867	1,138,467			
Outside Plant (cables, conduits, ducts, poles, towers, repeaters, etc.)		18,155,546	4,538,889			
Buildings and Land – (new construction, improvements, renovations, lease)		1,019,520	254,880			
Customer Premise Equipment (modems, set-top boxes, inside wiring, etc.)		231,936	57,984			
Billing and Operational Support Systems (IT systems, software, etc.)		38,400	9,600			
Operating Equipment						



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Task: Submit Application - Infrastructure Programs		Applicant Name: Mr. Joe Onley	

(vehicles, office equipment, other)						
Engineering/ Professional Services (engineering design, project management, consulting, etc.)		3,292,134	823,034			
Testing (network elements, IT system elements, user devices, test generators, lab furnishings, servers/computers, etc.)		34,400	8,600			
Site Preparation						
Other						
TOTAL BROADBAND SYSTEM		27,325,803	6,831,454			



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Task: Submit Application - Infrastructure Programs	Applicant Name: Mr. Joe Onley

Total Budget: \$ 34,157,257

45. Detailed Budget:

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

Sustainability

46. Reasonableness

Public Utility District No. 1 of Pend Oreille County, WA (the “District”) has extensive experience in developing multi-million dollar capital projects, including hydroelectric power plants, electrical distribution systems, water distribution networks, and its existing 125-mile fiber backbone network, as well as in administering such projects on a fair and competitive basis. To augment the experienced capital-projects team designated for developing the District’s last-mile broadband infrastructure proposal, the District has engaged ID Consulting Solutions, LLC, (IDCS) as subject-matter experts in the telecommunications infrastructure industry.

Given its extensive experience in developing fiber optic long-haul and last-mile networks, IDCS selected the top three material providers from each category (fiber, routers, outside plant materials, etc.) and sought preliminary pricing proposals. The responses came back with roughly 25% to 40% discounts off of manufactured suggested retail pricing. Since many suppliers, owing to the weakened economy, have let their inventories dwindle, and because of the possibility of a surge in orders due to federal stimulus funds flowing into the industry, it seems imprudent to expect discounts greater than those already inserted in the unit prices listed in Attachment G.

IDCS is currently working with equipment vendors and construction contractors on similarly-situated projects that have very similar purchasing requirements to those governing the District. IDCS is fully aware of the prevailing price points in the marketplace, which are reflected in Attachment G. Thus, the District believes that its proposed Project budget qualifies as reasonable, necessary, and appropriate.

Reasonableness of the Total Number of Units:

- Fiber – the fiber units were calculated based upon the actual linear feet of the proposed



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Task: Submit Application - Infrastructure Programs	Applicant Name: Mr. Joe Onley

build, with an industry-standard 5% contingency for slack loops and sparing purposes. The fiber will bring remote communities into the digital-age, and allow them comparable or notably better access to affordable, high-speed broadband than their urban counterparts.

- Switching / Routing Equipment – the optical and routing layers of the network were designed to require minimal components, and it is anticipated that the initial components will provide ample bandwidth capabilities for the first several years. Video will be a significant driver over the network after construction has ended for Phases one, two and three.
- The remainder of the proposed budget’s unit items coincide with the network design and geographic coverage. For instance, each and every cabinet located in the field is reflected in the Project’s total number of cabinet units. The total number of units is equal to 28, including 17 for local drops and the remaining 11 support middle-mile points of presence. This approach reflects the Project’s goal of creating as many convenient on-ramps to the Internet as possible, and to disperse broadband more widely throughout the service territory.

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

The Public Utility District No.1 of Pend Oreille County, WA ("the District") commits to provide the 20% matching funds as required in the NTIA and RUS grant guidelines under their respective Broadband Technology Opportunities Program and Broadband Initiatives Program. Based upon the capital requirements of the District's proposed Project, the financial contribution from the District would equate to \$6,831,451.



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

Submitted Date: 8/20/2009 11:09:46 AM	Easygrants ID: 1854
Funding Opportunity: Broadband Initiatives Program and Broadband Technology Opportunities Program	Applicant Organization: Public Utility District of Pend Oreille County
Task: Submit Application - Infrastructure Programs	Applicant Name: Mr. Joe Onley

The investment into the network could come from cash reserves or other sources currently held or securable by the District, which would equate to an equity investment into the proposed broadband fiber network project. Upon completion, the proposed network would be 100% owned and operated by the District and thus no financial terms are required.

The funds would be used to support the capital costs of the project. In addition, the District is prepared to integrate the operations of the network into its existing broadband transport network, doing business as the Community Network System, thereby leveraging the District's additional internal resources.

BTOP Requirements

52. Matching Funds:

- a. Cash: \$ 6,831,451.00
- b. In-Kind: \$.00
- c. Percent of Total Project Cost: 20

53. Demonstration of Financial Need:

The District's Project would not be implemented but for federal grant assistance. While the District believes it can successfully sustain operational expenditures related to the Project, the District's financial projections indicate its net income would not be sufficient to satisfy debt service obligations, and strains on the local economy make bond financing impractical and highly unlikely – leaving grant funding the only viable alternative to fund the Project.

The District is a non-profit, municipal corporation organized to provide electric and water services to the residents of Pend Oreille County. The District's reporting entity is comprised of three primary operating systems: Electric System, Box Canyon Production System (hydroelectric), and Water System. The District's wholesale broadband operations are conducted within the District's Electric System. The District is required by various financing and contractual arrangements to report separately on each system and maintain each system as a separate entity with separate obligations.

Because the District is required to report separately on each system and maintain each system



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as a separate entity with separate obligations, the Electric System financials are the most relevant and appropriate measure of financial feasibility.

The Electric System's income statement, assuming a 20-year loan of \$27M principal at 4.3%, reveals negative net income and a RUS TIER < 1.0 throughout the five-year projection.

In sum, the District does not satisfy the financial feasibility criteria established by RUS. To be sure, the loan terms available from RUS are likely the most favorable available to the District, particularly with regard to interest rate and loan payback period. The District has no reasonable basis to believe that it would qualify for commercial loans. Moreover, it is highly unlikely that a public bond financing could be accomplished—the District would be required to raise electric rates 1% for every \$1 million financed—resulting in as much as a 35% increase, which would apply even to residents living outside the proposed funded service area.

The District has identified the following prohibitive factors to financing the Project without grant funding:

Capital Cost per Household – Owing to the County's significant size (1,400 square miles—nearly the size of Rhode Island) and sparse population, the budgeted \$7,986 capital cost per household (\$6,863 based on est. 2008 household units) is extremely high when compared to the published costs of Verizon's FiOS network deployment, which reportedly cost \$1,220 per home, ending December 2008. Although Verizon is the incumbent local exchange carrier in a portion of Pend Oreille County, Verizon has chosen not to deploy FiOS in the County electing, instead, to overbuild other broadband providers in more urban environments. Notably, when considering a 20% matching contribution by the District of \$6,831,451, the cost per household is reduced to \$1,567 (\$1,372 based on est. 2008 household unit).

Limited Revenue Opportunities. With only 8.4 people per square mile and the District's projections that the Project will pass roughly 5,000 homes and businesses, the area's sparse population poses a critical limiting factor to the District's ability to generate revenues necessary to support projected debt service.

Strained Local Economy –The area unemployment has risen to over 13.5% as of June 2009, and, with major layoffs at the county's largest employers, the supporting businesses will certainly share in the economic downturn. Indeed, in 2008, the District conducted a survey to determine, among other things, whether residents would be willing to incur as much as a \$25 per month rate increase in their electric service to fund improved access to broadband services. The resounding answer, at 72% of respondents, was opposition—despite survey results indicating an overwhelming desire for greater access to broadband applications.

54. Unjust Enrichment



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The Project is not receiving Federal support for non-recurring costs in the service area for which Applicant is seeking an award, and none has been requested.

55. Disclosure of Federal and/or State Funding Sources

Applicant has received no other federal or state funding for the Project, and none has been requested.

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	1
Rural Area Targeting	1 point for every 5% increase in the rural service area up the minimum 75% rural area requirement	Up to 5	1
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	0
<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	0
<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	0
<u>PROJECT BUDGET AND SUSTAINABILITY</u>			
Reasonableness of the budget	Points will be awarded based the	Up to 5	5



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	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	3
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	0
Total Points		100	54



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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

Washington - 5

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

Washington - 5

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

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

Proposed Funded Service Area Name: POPUD - Other Area

Census Blocks in Proposed Funded Service Area: 530519702002133, 530519702002134, 530519702002161, 530519702003071, 530519702003072, 530519702003079, 530519702003081, 530519702003082, 530519702003101, 530519702003103, 530519702003104, 530519702003106, 530519702003107, 530519702003108, 530519702003109, 530519702003110, 530519702003111, 530519702003127, 530519702003128, 530519702003129, 530519702003130, 530519702003131, 530519702003134, 530519702003141, 530519702003177, 530519702003192, 530519702003193, 530519702003194, 530519702003195, 530519702003196, 530519702003197, 530519702003198, 530519702003199, 530519702003200, 530519702003201, 530519702003202, 530519702003203, 530519702003205, 530519702003206, 530519702003207, 530519702003208, 530519702003209, 530519702003210, 530519702003211, 530519702003212, 530519702003213, 530519702003214, 530519702003215, 530519702003216, 530519702003217, 530519702003218, 530519702003219, 530519702003220, 530519702003221, 530519702003222, 530519702003223, 530519702003224,



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530519702003225, 530519702003226, 530519702003227, 530519702003228, 530519702003229, 530519702003230, 530519702003231, 530519702003232, 530519702003233, 530519702003234, 530519702003235, 530519702003236, 530519702003237, 530519702003238, 530519702003239, 530519702003240, 530519702003241, 530519702003243, 530519702003244, 530519702003245, 530519702003246, 530519702003247, 530519702003248, 530519702003249, 530519702003250, 530519702003251, 530519702003252, 530519702003253, 530519702003254, 530519702003255, 530519702003256, 530519702003994, 530519702003997, 530519702003998, 530519702003999, 530519703001002, 530519703001003, 530519703001004, 530519703001005, 530519703001006, 530519703001007, 530519703001071, 530519703001078, 530519703001079, 530519703003000, 530519703003001, 530519703003002, 530519703003003, 530519703003004, 530519703003005, 530519703003006, 530519703003007, 530519703003008, 530519703003009, 530519703003010, 530519703003011, 530519703003012, 530519703003013, 530519703003014, 530519703003015, 530519703003016, 530519703003017, 530519703003018, 530519703003019, 530519703003020, 530519703003021, 530519703003022, 530519703003023, 530519703003024, 530519703003025, 530519703003026, 530519703003027, 530519703003028, 530519703003029, 530519703003030, 530519703003031, 530519703003032, 530519703003033, 530519703003034, 530519703003035, 530519703003036, 530519703003038, 530519703003039, 530519703003040, 530519703003042, 530519703003049, 530519703003063, 530519703003066, 530519703003067, 530519703003068, 530519703003069, 530519703003070, 530519703003071, 530519703003072, 530519703003997, 530519703003998, 530519703003999, 530519704001016, 530519704001017, 530519704001018, 530519704001019, 530519704001020, 530519704001021, 530519704001022, 530519704001023, 530519704001024, 530519704001025, 530519704001026, 530519704001052, 530519704001056, 530519704001057, 530519704001058, 530519704001059, 530519704001060, 530519704001061, 530519704001062, 530519704001063, 530519704001064, 530519704001065, 530519704001066, 530519704001067, 530519704001068, 530519704001071, 530519704001072, 530519704001073, 530519704001074, 530519704001075, 530519704001076, 530519704001077, 530519704001078, 530519704001079, 530519704001080, 530519704001081, 530519704001082, 530519704001083, 530519704001084, 530519704001085, 530519704001086, 530519704001087, 530519704001088, 530519704001089, 530519704001090, 530519704001091, 530519704001092, 530519704001093, 530519704001094, 530519704001095, 530519704001096, 530519704001097, 530519704001098, 530519704001099, 530519704001100, 530519704001101, 530519704001102, 530519704001103, 530519704001104, 530519704001105, 530519704001106, 530519704001107, 530519704001108, 530519704001109, 530519704001110, 530519704001111, 530519704001112, 530519704001113, 530519704001114, 530519704001115, 530519704001116, 530519704001117, 530519704001118, 530519704001119, 530519704001120, 530519704001121, 530519704001122, 530519704001123,



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530519704001124, 530519704001125, 530519704001126, 530519704001127, 530519704001128, 530519704001129, 530519704001130, 530519704001131, 530519704001132, 530519704001133, 530519704001134, 530519704001135, 530519704001136, 530519704001137, 530519704001138, 530519704001139, 530519704001140, 530519704001141, 530519704001142, 530519704001143, 530519704001144, 530519704001145, 530519704001146, 530519704001147, 530519704001148, 530519704001149, 530519704001167, 530519704001168, 530519704001170, 530519704001171, 530519704001173, 530519704001174, 530519704001175, 530519704001176, 530519704001177, 530519704001178, 530519704001179, 530519704001180, 530519704001181, 530519704001182, 530519704001183, 530519704001184, 530519704001185, 530519704001186, 530519704001187, 530519704001989, 530519704001990, 530519704001991, 530519704001992, 530519704001993, 530519704001995, 530519704001999, 530519704002000, 530519704002001, 530519704002002, 530519704002003, 530519704002004, 530519704002005, 530519704002006, 530519704002007, 530519704002008, 530519704002009, 530519704002010, 530519704002011, 530519704002012, 530519704002013, 530519704002014, 530519704002015, 530519704002016, 530519704002017, 530519704002018, 530519704002019, 530519704002020, 530519704002021, 530519704002022, 530519704002023, 530519704002024, 530519704002025, 530519704002026, 530519704002027, 530519704002028, 530519704002029, 530519704002030, 530519704002031, 530519704002032, 530519704002033, 530519704002034, 530519704002035, 530519704002036, 530519704002037, 530519704002038, 530519704002039, 530519704002040, 530519704002041, 530519704002042, 530519704002043, 530519704002044, 530519704002045, 530519704002046, 530519704002047, 530519704002048, 530519704002049, 530519704002050, 530519704002051, 530519704002052, 530519704002053, 530519704002054, 530519704002055, 530519704002056, 530519704002057, 530519704002058, 530519704002059, 530519704002060, 530519704002061, 530519704002062, 530519704002063, 530519704002064, 530519704002065, 530519704002066, 530519704002067, 530519704002068, 530519704002069, 530519704002070, 530519704002071, 530519704002072, 530519704002073, 530519704002075, 530519704002076, 530519704002077, 530519704002078, 530519704002079, 530519704002080, 530519704002081, 530519704002082, 530519704002083, 530519704002084, 530519704002996, 530519704002997, 530519704002998, 530519704002999, 530519704003000, 530519704003001, 530519704003002, 530519704003003, 530519704003004, 530519704003005, 530519704003006, 530519704003007, 530519704003008, 530519704003009, 530519704003010, 530519704003011, 530519704003012, 530519704003013, 530519704003014, 530519704003015, 530519704003016, 530519704003017, 530519704003018, 530519704003019, 530519704003020, 530519704003021, 530519704003022, 530519704003023, 530519704003024, 530519704003025, 530519704003026, 530519704003027, 530519704003028, 530519704003029, 530519704003030, 530519704003031, 530519704003032, 530519704003033, 530519704003034,



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530519704003035, 530519704003036, 530519704003037, 530519704003038, 530519704003039, 530519704003040, 530519704003041, 530519704003042, 530519704003043, 530519704003044, 530519704003045, 530519704003046, 530519704003047, 530519704003048, 530519704003049, 530519704003999, 530519705001000, 530519705001001, 530519705001002, 530519705001003, 530519705001004, 530519705001005, 530519705001006, 530519705001007, 530519705001008, 530519705001009, 530519705001010, 530519705001011, 530519705001012, 530519705001013, 530519705001014, 530519705001015, 530519705001016, 530519705001017, 530519705001018, 530519705001019, 530519705001020, 530519705001021, 530519705001022, 530519705001023, 530519705001024, 530519705001025, 530519705001999, 530519705002000, 530519705002001, 530519705002002, 530519705002003, 530519705002004, 530519705002005, 530519705002006, 530519705002007, 530519705002008, 530519705002009, 530519705002010, 530519705002011, 530519705002012, 530519705002013, 530519705002014, 530519705002015, 530519705002016, 530519705002017, 530519705002018, 530519705002019, 530519705002020, 530519705002021, 530519705002022, 530519705002023, 530519705002024, 530519705002025, 530519705002026, 530519705002027, 530519705002028, 530519705002029, 530519705002030, 530519705002031, 530519705002032, 530519705002033, 530519705002034, 530519705002035, 530519705002036, 530519705002037, 530519705002038, 530519705002039, 530519705002040, 530519705002041, 530519705002043, 530519705002044, 530519705002045, 530519705002046, 530519705002047, 530519705002048, 530519705002049, 530519705002050, 530519705002051, 530519705002054, 530519705002055, 530519705002056, 530519705002058, 530519705002059, 530519705002060, 530519705002061, 530519705002062, 530519705002065, 530519705002066, 530519705002067, 530519705002068, 530519705002069, 530519705002070, 530519705002996, 530519705002997, 530519705002998, 530519705002999

Community Name: Other Area
Rural Classification of the Community: Rural
BIP - Service Status: Unserved

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

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;

The rate of broadband subscribership for the proposed funded service area is 40% of households or less.



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Total Square Miles of Community: 280
Total Population : 6,121
Total Number of Households: 3,437
Total Number of Businesses: 21
Total Number of Critical Community Facilities, Anchor Institutions and Public Safety Entities: 10

Proposed Funded Service Area Name: POPUD - Newport Area
Census Blocks in Proposed Funded Service Area: 530519702003242, 530519703001000, 530519703001001, 530519703001008, 530519703001009, 530519703001010, 530519703001011, 530519703001012, 530519703001013, 530519703001014, 530519703001015, 530519703001016, 530519703001017, 530519703001018, 530519703001019, 530519703001020, 530519703001021, 530519703001022, 530519703001023, 530519703001024, 530519703001025, 530519703001026, 530519703001027, 530519703001028, 530519703001029, 530519703001030, 530519703001031, 530519703001032, 530519703001033, 530519703001034, 530519703001035, 530519703001036, 530519703001037, 530519703001038, 530519703001039, 530519703001040, 530519703001041, 530519703001042, 530519703001043, 530519703001044, 530519703001045, 530519703001046, 530519703001047, 530519703001048, 530519703001049, 530519703001050, 530519703001051, 530519703001052, 530519703001053, 530519703001054, 530519703001055, 530519703001056, 530519703001057, 530519703001059, 530519703001060, 530519703001061, 530519703001062, 530519703001063, 530519703001064, 530519703001065, 530519703001066, 530519703001067, 530519703001068, 530519703001069, 530519703001070, 530519703001072, 530519703001073, 530519703001074, 530519703001075, 530519703001076, 530519703001077, 530519703001999, 530519703002000, 530519703002001, 530519703002002, 530519703002003, 530519703002004, 530519703002005, 530519703002006, 530519703002007, 530519703002008, 530519703002009, 530519703002010, 530519703002011, 530519703002012, 530519703002013, 530519703002014, 530519703002015, 530519703002016, 530519703002017, 530519703002018, 530519703002019, 530519703002020, 530519703002021, 530519703002022, 530519703002023, 530519703002024, 530519703002025, 530519703002026, 530519703002027, 530519703002028, 530519703002029, 530519703002030, 530519703002031, 530519703002032, 530519703002033, 530519703002034, 530519703002035, 530519703002036, 530519703002037, 530519703002038, 530519703002039, 530519703002040, 530519703003037, 530519703003041, 530519703003043, 530519703003044, 530519703003045, 530519703003046, 530519703003047, 530519703003048, 530519703003050,



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

Submitted Date: 8/20/2009 11:09:46 AM	Easygrants ID: 1854
Funding Opportunity: Broadband Initiatives Program and Broadband Technology Opportunities Program	Applicant Organization: Public Utility District of Pend Oreille County
Task: Submit Application - Infrastructure Programs	Applicant Name: Mr. Joe Onley

530519703003051, 530519703003052, 530519703003053, 530519703003054, 530519703003055, 530519703003056, 530519703003057, 530519703003058, 530519703003059, 530519703003060, 530519703003061, 530519703003062, 530519703003064, 530519703003065, 530519704001000, 530519704001001, 530519704001002, 530519704001003, 530519704001004, 530519704001005, 530519704001006, 530519704001007, 530519704001008, 530519704001009, 530519704001010, 530519704001011, 530519704001012, 530519704001013, 530519704001014, 530519704001015, 530519704001054, 530519704001055, 530519704001997, 530519704001998

Community Name: Newport, WA
Rural Classification of the Community: Rural
BIP - Service Status: Served

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

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;

The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

Total Square Miles of Community: 3
Total Population : 1,972
Total Number of Households: 840
Total Number of Businesses: 175
Total Number of Critical Community Facilities, Anchor Institutions and Public Safety Entities: 18

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

Middle Mile Span Name:
Census Blocks in Middle Mile Span:
Last Mile Service Area Name:



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

Submitted Date: 8/20/2009 11:09:46 AM	Easygrants ID: 1854
Funding Opportunity: Broadband Initiatives Program and Broadband Technology Opportunities Program	Applicant Organization: Public Utility District of Pend Oreille County
Task: Submit Application - Infrastructure Programs	Applicant Name: Mr. Joe Onley

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.
--

BTOP - Service Status:

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

Total Square Miles of Service Area:
Total Population :
Total Number of Households:
Total Number of Businesses:
Total Number of Critical Community Facilities, Anchor Institutions and Public Safety Entities:

N. Uploads

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