
State Broadband Data and Development Grant Program

NTIA Grant = RIN 0660-ZA29

DEPARTMENT OF COMMERCE

National Telecommunications and Information Administration

Grantee : The State of Connecticut

Department of Public Utility Control

Amended and Supplemental Application

Being a single plan to the NTIA Program Office that incorporates a proposal for up to an additional three years of broadband data collection, integration, validation and display and up to four additional years to support programs that implement Other Program Purposes

July 1, 2010

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Project Abstract:

Description Of Each Project For Which The Awardee Is Requesting Amended Or Supplemental Funding

- **Data Collection, Integration, Verification and Display.**

The purpose of this project is to continue the collection, integration, verification and display of broadband data within the State of Connecticut for years 3 through 5 of the program, to enhance the program by improving data in census blocks greater than 2 square miles, to implement a number of leading practices into the program and to support other related activities through current and accurate data.

- **Other SBDD Program Purposes**

The best use of the already-funded planning project (Strategic Plan) and consultants is to identify and research methods for implementing the public policy goals already identified by the state of Connecticut and the NTIA, and including the FCC's National Broadband Plan.

- **State Broadband Capacity Building** = The creation of a position dedicated to the ARRA broadband grant program: "Broadband Policy and Programs Coordinator, State ARRA Broadband Stimulus Office"
- **Technical Assistance** = Connecticut to provide "technical assistance" to local groups, non-profit groups, or industry providers in terms of technology strategy development, train-the-trainer activities, and sustainability planning, which will be accomplished through the use of the data developed in the mapping project.
- **Application Usage and Development (by state, regional and local government)** = To give action to the public policy goals developed in the Strategic Plan by the implementation of the state's own resources, agencies and other public entities to encourage use by residents and business by the example of state government.

Budget Narrative

**(Budget – summary, request (fed), budget (match), contracts budget-
= attached as a separate Excel spreadsheet)**

- **1) Data Collection, Integration, Verification and Display.**

Appended to this Application is a man-hour breakdown for the years 3 to 5 program.

The cost for the data collection, integration, verification and display for years 3 to 5 is \$1,578,597.

The cost to incorporate addressing which includes completing the parcels for the remainder of the state is \$487,749.

The table below displays the calculation for the cost that should be carried under Other SBDD programs for Leading Practice Implementation:

Item Description	Project Cost
Repeated Data Updating Costs	\$1,578,597
Address File Cost	\$ 487,749
Original Mapping Grant Amount	\$1,349,500
Total Mapping Costs	<u>\$3,415,846</u>

- **2) Other SBDD Program Purposes**

Item Description	Project Cost	
Future Leading Practice Implementation Costs	\$ 341,585	10% Total Mapping Program Cost
State Broadband Capacity Building	\$ 125,000	
Technical Assistance	\$1,000,000	
Application Usage and Development	<u>\$1,000,000</u>	
Total Other SBDD Program Purposes Costs	\$2,466,585	

Project Narrative:

- **Amount of funding already awarded, amount requested, sum of both.**

Current Funding already obligated by NTIA = \$1,833,769

Amount of Funding requested in this proposal = \$5,882,431

The sum of these two amounts = \$7,716,200

- **Description Of The Activities Already Approved And The Amount Of Funding Already Awarded:**

Current Funding: \$1,833,769 total grant

The NTIA Grant currently supports two approved activities in this grant to a state agency Designated Entity, both planned and executed under direct state supervision :

1) \$1,333,969 data gathering and mapping:

The gathering of broadband-related data at the state level and the development of statewide broadband maps, including speed and type of technology, at a census block level, and for census blocks greater than two square miles, at a road segment level.

2) \$499,800 Strategic Plan:

The development of a Strategic Plan for statewide initiatives to collect and analyze detailed market data concerning use and demand for broadband service in order to identify implementation methods to remove barriers to the adoption of broadband service and information technology services, particularly by the creation of local technology planning teams by designated regions within the state in collaboration with broadband service providers and information technology companies.

- **Summary Description Of Each Project For Which The Awardee Is Requesting Amended Or Supplemental Funding =**

- **Data Collection And Mapping** = The gathering of broadband-related data at the state level and the development of statewide broadband maps.
- **State Broadband Capacity Building** = The creation of a position dedicated to the ARRA broadband grant program: “Broadband Policy and Programs Coordinator, State ARRA Broadband Stimulus Office”
- **Technical Assistance** = Connecticut to provide “technical assistance” to local groups, non-profit groups, or industry providers in terms of technology strategy development, train-the-trainer activities, and sustainability planning, which will be accomplished through the use of the data developed in the mapping project.
- **Application Usage and Development (by state, regional and local government) =** To implement the state’s own resources, agencies and other public entities to encourage use by residents and business by the example of state government.

Detailed Description Of Each Proposed Project

First Proposal – Data Collection and Related Activities

[Name] Data Collection, Integration, Verification and Display

The purpose of this project is to continue the collection, integration, verification and display of broadband data within the State of Connecticut for years 3 through 5 of the program, to enhance the program by improving data in census blocks greater than 2 square miles, to implement a number of leading practices into the program and to support other related activities through current and accurate data.

[Funds Awarded] – Connecticut has received \$1,333,969 data gathering and mapping for years 1 and 2.

[Funds Requested] – Amount of funding requested for this program = \$ 3,757,431 for years 3-5

[Total Amount of #2 and #3] \$5,091,400.

[Describe Currently Funded Activities]

Connecticut has retained a third party mapping Vendor to perform the broadband mapping components of Connecticut's program which include:

- Identifying and communicating with the broadband providers and tracking all communications
- Establishing an NDA as required
- Collecting raw service availability and/or customer data, and infrastructure data from each broadband provider
- Integrating the provider data into a standardized format consistent with NTIA's NOFA and the NSGIC data model
- Validating the data against other public and commercial data sources
- Collecting and mapping ancillary data including socio-economic and demographic data, parcel data and
- Building an information portal, a speed test application, a community anchor institution application, an interactive portal for basic provider feedback, and an interactive mapping portal to allow the data to be displayed and used by end users.

Data for the first year of the program has been collected at various levels of granularity and formats, transformed into a project standard and delivered to NTIA at the census block and street segment level in an ESRI File Geodatabase format using Census 2009 geography. This process has been funded at the same level to establish the processes and perform the collection on a biannual basis, for a two-year period.

[Describe Any Proposed Changes to Previously Approved Application]

Data Gathering Methodology

Vendor has identified, categorized, and/or collected data from XX providers serving the state (including subsidiaries, affiliates, etc) and executed data sharing agreements with most of

these companies. Vendor has also collected socio-economic and demographic data from various sources and existing parcel data.

Vendor will continue this process of data collection and collect data from providers that have come into business since the first data submission, and also concentrate on collecting data from those that are known to exist, but are not yet participating, in order to provide a complete picture of broadband deployment in the State of Connecticut.

The Vendor will also continue to collect the data from those providers that are participating and work with these providers to improve the quality of the data being submitted to NTIA by educating them on the use of the Provider Portal application that has been built for a provider to perform accuracy checks after data has been standardized into NTIA formats.

Vendor will move all data to the 2010 census geography once the new census geography datasets are published.

Vendor will collect socio-economic and demographic data based on the 2010 census data collection when such data are published.

Vendor will also adopt leading practices related to data collection described in more details in the section on Leading Practices – this will include Address level data collection, speed geography in the census block/address format, data from resellers, and mapping of public WiFi locations.

Data Integration

So far, the process that has been employed for data integration has included many different techniques depending on the format and quality of the data received from the provider. The primary mechanism that has been developed is to build Extract, Transform and Load (ETL) routines to integrate the data into a production data model, and resolve the data provided to a spatial feature such as a census block or street segment. Given that the project was originally reduced from 5 years to 2 years, the Vendor reduced the budget in this area of creating ETL processes with the rationale that the cost of ETL processes did not justify the efficiencies gained for 2 years only. However, since the project is now being extended to 5 years, there is a need to complete out ETL processes that have not yet been built.

Vendor will set up ETL processes for all providers to achieve efficiencies in the long run.

The ETL processes will also need to be modified as necessary as provider submissions change, and new routines will be built as new providers emerge and are brought into the program.

After all the data are standardized into a production data model, ETL processes are also used to export the data into the format required for the NTIA submissions and to serve the data on the various portals, maps, and analysis.

Since the NTIA/NSGIC model is still evolving it is also anticipated that some changes may need to be made to the export ETL process to deliver NTIA the final format they are looking for.

Integration of data for Years 3 to 5 will also include transformation of data from the Census 2009 geography to Census 2010 geography including the processing of ancillary data related to Census 2010.

Vendor has already delivered data in the geodatabase format but will need to make changes to the format and data based on new geodatabase format provided by NTIA. Therefore, this leading practice will need to be enhanced in subsequent years. The geodatabase format requires more detailed metadata requirements from those specified in the original NOFA. More detailed metadata will be generated by the Vendor for better use of the data by the public.

Vendor will also create a format for delivery of non-confidential data.

Verification Methodology

Once standardized into the production data model each provider's data set is subject to a number of verification tests including comparing the data to commercially available data sources, publicly available datasets, and performing other spatial analysis on the data to look for spatial outliers or discrepancies.

So far, Vendor has performed validation of all non-wireless data using commercial datasets and public data such as Exchange Boundary data and cable franchise boundaries. Vendor has also done spatial analysis to improve the data. Vendor has also provided processed data back to the providers for review and QC and incorporated all changes identified by the providers. This is done through a provider portal application. Vendor will continue to do these activities for every deliverable.

In the existing years and in subsequent years, Vendor would like to do additional verification with wireless data and providers as limited verification was planned for this in the original budget. This includes commercial data such as American Roamer data and also involves driving through the state with equipment to capture wireless signals, strengths and providers. Vendor will work with a mobile mapping company to do this twice in the three years. This was not budgeted in the original proposal.

Vendor will also do additional verification using FCC speedtest data that has been made available and will continue to be received on a monthly basis. This will need to start in Year 2 of the program and was not in the original budget as the data got released at a later date.

Vendor will provide GIS and mapping support for the Other State Broadband Programs and Planning activities and use outcomes of such events for the purposes of verifying data.

Vendor will enhance the Provider Portal in Year 2 to incorporate the Leading Practices discussed by NTIA as the Provider/public feedback loop. In the current budget, Vendor's scope was to build a basic provider portal to allow providers to verify their processed data before delivery to NTIA. The Vendor will work with a focus group of the broadband providers in Connecticut to develop a provider/public feedback loop whereby the public can provide feedback to the provider in the information portal and interactive mapping application and the provider will be able to track and correspond with the public through the use of the provider portal and social networking technologies.

Vendor will also implement in the second year of the program the leading practice on Data Confidence Scale. Vendor proposes to do this at the beginning of Year 2 when there is some stability and critical mass of provider data as well as verification data points (such as speed tests, completed data collection on community anchor institutions, public feedback, etc.)

Display

The State of Connecticut is implementing the Connecticut State Broadband Mapping web site as part of its base two-year contract. The site includes an information portal, speed test application, community anchor institution application, and an interactive mapping application.

This portal and the applications will be improved, maintained, and enhanced on an annual basis by of Vendor through the additional 3 years of the program. Some of the enhancements that have already been envisioned include:

- Provide sorting options of provider data presented after an address search is performed
- Provide public, private, state feedback loops within application environment
- Provide enhanced data layer mapping, queries, and reporting
- Incorporate address data into application search and reporting
- Create executive dashboard for summary statistics
- Other enhancements as identified by end user feedback

Vendor will make the public Interactive Portal compliant with the Safari browser for Mac Users as a growing number of users in the state use Apple Products.

First Proposal – Data Collection and Related Activities (continued)

Address File Development

Within the scope of the project for Year 1 and 2, the State of Connecticut is collecting and standardizing all digital parcel data that is available in the state for use in geocoding. This is the foundation of the base map for the state's broadband mapping program. The State of Connecticut does not have any counties and local government activities are managed on a municipal basis. There are still areas of the state, the rural areas of the state, which do not have digital parcels. The Vendor will collect assessors' tax maps for these municipalities and automate the remaining parcels in the state.

The State of Connecticut Department of Emergency Management and Homeland Security (DEMHS) has created a system which includes a geocoding service which incorporates various reference datasets such as local parcel or street data (that where available at the time the geocoding service was created), TeleAtlas street centerline data and StreetMap 1000 data from ESRI. By using only parcel data and census data, Vendor is getting really low geocoding rates with as little as 40% matches on some provider datasets. Therefore, Vendor is using the DEMHS geocoder where necessary. However, the DEMHS geocoder also falls short in the municipalities mentioned above that do not have good quality parcel data. Furthermore, the spatial accuracy of the points are not very good for larger parcels and for those that geocode to the TeleAtlas or street centerline data. Using additional funding Vendor will undertake the following:

Vendor will incorporate the additional parcel data into the DEMHS geocoder – this will involve standardization and automated clean-up on the addresses with new parcel data developed.

Vendor will complete parcels in the municipalities that do not have parcel data.

Vendor will acquire building point data through a public private partnership with AT&T.

For the locations where AT&T data does not exist state, Vendor will improve the spatial accuracy of the address point location derived from parcel centroid for large size parcels using automated techniques using various assumptions:

Vendor assumes that buildings are closer to the road and a better location can be created by using a map overlay function of the parcel with a specified road buffer and then using the centroid of the common area created by the intersection. The size specification for "large parcel" and the appropriate road buffer distance will be determined in discussion with the State of Connecticut.

Once completed, the addresses for the rural municipalities and better spatial locations for the larger parcels statewide, will then be incorporated back into the DEMHS geocoder.

Leading Practices

A number of leading practices have been identified in the grant guidance document that Connecticut feels can benefit the program in this area if implemented. Each is briefly described below:

- Address Level Collection: Collection of data at a street segment level has proven to be an easy process to perform, but the quality of the data received has proven to be a challenge. In year three or earlier the Vendor will collect data in census blocks that are greater than two square miles at an address level as opposed to the

current street segment level pending provider participation. This change will require changes to many of the data sharing agreements signed with providers.

- Speed Geography: To date speed data has been provided to us in a number of various geographies; CMA, CBSA, county, etc which has caused some problems with aggregating and then averaging the data. In year two our Vendor will begin requesting speed data from providers by the same feature type as the rest of the data (census block & address).
- Resellers: As part of the current process one of the first steps was to determine whether or not a provider is a reseller. Providers of broadband who are pure resellers were not included in the project. Starting in year 2 our Vendor will include resellers which will require new contacts to be made and logged, new NDAs to be put in place, changes to the data models and processing scripts, additional verification and changes to the web applications built for the project.
- Free Public WiFi: Another leading practice that has been identified is to incorporate free public WiFi locations into the project. This will be accomplished by building an API that allows the entities making the service available to register their facilities and maintain the data about their facilities similar to the Community Anchor Institution application we have available.
- Data Confidence Scale: Connecticut's Vendor will begin implementing a data confidence scale to all data collected as part of year two of our data verification/validation methodology.
- Provider/public feedback loop: Our Vendor will work with a focus group of the providers in Connecticut to develop a provide/public feedback loop whereby the public can provide feedback to the provider in the information portal and interactive mapping application and the provider will be able to track and correspond with the public through the use of the provider portal and social networking technologies.

Detailed Description Of Each Proposed Project

Second Proposal = State Broadband Capacity Building

NAME: Project name and one sentence description.

- State Broadband Capacity Building :
 - The creation of a position and office dedicated to the ARRA broadband grant program:
“Broadband Policy and Programs Coordinator, State ARRA Broadband Stimulus Office”
- Granting of authority for this position and federal grant funding will help with enhancing communication for industry providers, non-profits, or municipal local groups as being the single entity to contact or interact with to accomplish the state’s public policy goals and implement these funded activities, such as developing state plans to support broadband and IT growth and adoption-gathering of data to benchmark success over time, and convening statewide or regional events to disseminate technical information.

FUNDS AWARDED: Amount that has already been awarded by the Program Office for this project, or for activities that are part of this project.

- There has been no funding of a single point of contact nor an office representing Connecticut, however a number of state employees are engaged in the 1st Grant mapping/planning activities, two of them essentially working fulltime on these projects. All state employees so engaged continue to be fully funded by the state or by public utility ratepayers through the regulatory process.

FUNDS REQUESTED: Level of funding requested from the SBDD Grant Program for this project

- Total grant funding (yrs. 3-5)= \$ 125,000. (Salary = \$104,436; Other = \$20,564)
- This will fund an existing fulltime state employee for one quarter of the existing salary for 4 years, allowing for matching by the use of public utility ratepayer funds, while establishing the position as an identifiable point of contact.

PROBLEM: The problem the project is addressing.

- The principal attorney of the Office of Consumer Counsel has been performing the duties outlined in this role and his salary and benefits (funded by public utility ratepayers) form a large part of the matching contribution for the mapping and planning projects. It has become important for the state to expressly authorize a single-point of contact for internal and external parties to access information regarding the state’s broadband expansion activities.

- As broadband services are largely the product of the convergence of telephone and cable services into a new telecommunications service, utilizing the experience and position of a consumer advocate with many years of experience in the regulation of both telephone and cable services provides the state with as experienced a person in this role as is possible to find. Additionally, as a part of the public utility regulatory arena in Connecticut, this employee enjoys established relationships with the Department of Public Utility Control (the NTIA grantee), as well as many other related state agencies, and with the regulatory employees of all telecommunications operators providing service in Connecticut.
- The grant of authority to represent the state's interests in initiating and implementing public policy positions will enhance communications with industry providers, non-profits, or municipal local groups as being the single entity to contact or interact with to accomplish the state's public policy goals and implement these funded activities.
- The state's economic condition requires federal grant funding for further expenses (e.g., travel, materials, supplies, equipment, or indirect costs) for these activities. The NTIA grant will resolve that financial issue.

SOLUTION: The proposed solution (e.g., a clear description of the project activities and proposed timeline). Awardees should note if the solution described here is part of a larger project funded through other public or private entities.

- This solution to the lack of a dedicated state representative is to be resolved through the grant of authority by the state for this duty to be managed by of an established state employee, funded via a state statutory funding mechanism imposed on regulated public utility companies operating in the state.
- By granting authority for a single-point of contact and fulltime position, the state will be assured that entities seeking advice or counsel regarding the state's activities in implementing expansion of broadband access will have easy access to such a person. The integration of the planning activities with the eventual implementation of those public policy goals will be far more efficient with a dedicated manager for the purpose.
- The state's Broadband Policy and Programs Coordinator will be the program manager of the initial planning operations already funded by the NTIA, for which a consulting contract (SOW) has been executed.

OUTCOMES AND BENEFITS: The anticipated outcomes and benefits of the project.

- Thus, the Broadband Policy and Programs Coordinator will be in a position to focus the state's effort in assuring continuity between the planning phase of the 1st Grant and the implementation phase of the 2nd Grant.
- Broadband Policy and Programs Coordinator is a voting member of the state broadband task forces (the Broadband Internet Coordinating Council). The Broadband Policy and Programs Coordinator has already begun efforts through the BICC to work with the private sector to create public-private partnerships to access infrastructure, technical expertise, training and program funding, and compete for grants required to further support improved broadband access and adoption across a state or region.

- Broadband Policy and Programs Coordinator is already managing the development of the state's strategic plans to support broadband and IT growth and adoption. This includes the completion of strategic planning based on gap analysis of availability, adoption and the existing capacity of local support organizations. It also includes gathering state and local benchmark data to determine program success over time.
- As part of compiling the research for the state's plan, the Broadband Policy and Programs Coordinator and his consultant will convene statewide or regional events intended to disseminate technical information about broadband availability data collection and the results of research conducted, and to further improve understanding of and opportunities to enhance broadband within a state.
- The Broadband Policy and Programs Coordinator strongly believes that a sharp focus for this state is for inter-agency coordinating activities at the state level, supporting intra-governmental activities across the state, including development of streamlined permitting processes, coordination of local government officials leading broadband access and adoption efforts, and support of sector-specific (education, health, etc.) coordination efforts.

COST: The cost of the proposal in light of the previous factors (e.g., a justification of the reasonableness and cost-efficiency of the project)

- The state's plan to utilize the services of an established state employee, currently functioning as a statutorily-authorized public utility consumer advocate and funded via a state statutory funding mechanism imposed on regulated public utility companies operating in the state, will provide great cost-efficiency of the project.
- The activities of the state's Broadband Policy and Programs Coordinator will also serve to help meet the state's matching obligations to the NTIA since a high percentage of this state employee's time will be devoted to this service. The NTIA grant funding will aid the Broadband Policy and Programs Coordinator to meet expenses that are presently lacking funding, including travel to participate in national organizational panel opportunities, as well as materials, supplies, equipment, or indirect costs not otherwise covered by state funds.

SBDD PURPOSE: The SBDD-related purpose that the project addresses and an explanation of how the project relates to that purpose

- Since the Broadband Policy and Programs Coordinator will be involved in both the mapping and planning projects funded by the NTIA grants, to varying degrees the Coordinator will help the state of Connecticut achieve success in all aspects of these vital public policy goals, but of course particularly in the development of state plans to support broadband and IT growth and adoption-gathering of data to benchmark success over time, and to convene statewide or regional events to disseminate technical information
- The introduction of a single point of contact for internal and external entities participating in the NTIA grant mapping and planning projects will enhance the state's ability to develop and provide baseline assessment of broadband deployment in Connecticut.

- Further, through coordinating the mapping and planning functions, the state will be better able to identify and track the areas with low levels of deployment, the rate at which residential and business users adopt broadband service and other related information technology services, and possible suppliers of such services in order to establish and enhance computer ownership and Internet across the state.
- The activities of the Coordinator as a representative of the state will certainly help in the creation and facilitation of local technology planning teams, and in the development of collaborative efforts with broadband service providers and information technology companies to encourage deployment and use of computers and broadband services.

Detailed Description Of Each Proposed Project

Third Proposal – Technical Assistance

NAME: Project name and one sentence description

Technical Assistance

- Connecticut intends to provide “technical assistance” to local groups, non-profit groups, or industry providers in terms of technology strategy development, train-the-trainer activities, and sustainability planning, which will be accomplished through the use of the data developed in the mapping project, enhanced by expert analysis in the public policy strategic plan for enhancing broadband usage and ultimately implemented through this aspect of the state’s plan.

FUNDS AWARDED: Amount that has already been awarded by the Program Office for this project, or for activities that are part of this project.

- There has been no funding made for this project.
- The first phase of the Strategic Plan is intended by the state to use statewide initiatives to collect and analyze detailed market data concerning use and demand for broadband service in order to identify implementation methods to remove barriers to the adoption of broadband service and information technology services, particularly by the creation of local technology planning teams by designated regions within the state in collaboration with broadband service providers and information technology companies.
- In sum, the state will utilize findings established by the state’s Strategic Plan to develop the foundation and relevant entities needed to take public policy goals and advance them to implementation projects that will bring the reality of computer use and broadband services to the widest number of Connecticut residents and businesses as possible.

FUNDS REQUESTED: Level of funding requested from the SBDD Grant Program for this project.

- \$1,000,000

PROBLEM: The problem the project is addressing.

- It is imperative that the state discover and encourage entities that are capable of providing technical assistance of all kinds to local groups, non-profit groups, or industry providers in terms of technology strategy development, train-the-trainer activities, and sustainability planning.
- The state is here attempting to focus on leveraging its core competencies and its ability to convene, support, coordinate and enhance programs that provide digital literacy training and access to broadband and related equipment.

- The state fully intends to rectify existing lack of access to or use of existing broadband services by the use of its mapping project data and Strategic Plan to benchmark technology use across relevant community sectors, set goals for improved technology use within each sector; and finally develop a plan for achieving its goals, with specific recommendations for web-based application development and demand creation.

SOLUTION: The proposed solution (e.g., a clear description of the project activities and proposed timeline). Awardees should note if the solution described here is part of a larger project funded through other public or private entities.

- The state is keenly aware that there exists a lack of PC centers in Connecticut in certain identifiable regions and community groups, and it is the state's intention that the funds provided in this program area will support or establish programs designed to improve computer ownership and Internet usage. While Connecticut has a high percentage of broadband infrastructure penetration and therefore does not need a massive program to create new infrastructure, it desperately needs funding to rapidly enhance digital literacy and access to computer equipment in large segments of its population, much of which is low income or otherwise deprived of access to broadband services.
- While groups already exist in Connecticut working on expanding broadband usage, the Strategic Plan will identify and categorize these groups as to region and specialties, and this phase of the project will begin the implementation activities, such as providing sub-grant opportunities to well-established local community groups, in order promote the activities of existing volunteer and non-profit programs that can provide digital literacy and small business broadband training.

OUTCOMES AND BENEFITS: The anticipated outcomes and benefits of the project

- The NTIA grant opportunities will allow the state to provide technical expertise to local institutions already engaged in providing digital literacy and small business broadband training across the state, generally on a very local level.
- The state would like to provide such groups with the prospect through carefully-targeted sub-grants to existing groups with specialties in these areas of expanding their operations, within their home districts, but perhaps to be able to reach further afield and bring their expertise to new areas of need.
- Concurrent with these projects will be the centralization of management by the state in order to best avoid duplication of effort and maximize the benefits to be derived from the NTIA grant funding.
- Through the identification of needs and opportunities to result from the state's Strategic Plan, the state intends to benchmark technology use across relevant community sectors, set goals for improved technology use, develop a plan to achieve the goals, and develop specific recommendations for web-based application development.
- The state's primary goal in this proposal is the creation of local/regional planning teams, task forces, or advisory boards to help the state coordinate its outreach activities to the most local levels possible to create programs to improve computer ownership and internet usage.

COST: The cost of the proposal in light of the previous factors (e.g., a justification of the reasonableness and cost-efficiency of the project)

- By locating and facilitating local technology planning teams with expertise in technology assistance as quickly as possible (through the rapid deployment of its consultants in the Strategic Plan), the state will develop collaborative efforts with broadband service providers and information technology companies to encourage deployment and use of computers and broadband services, with a focus on identifying and increasing the rate at which residential and business users adopt broadband service and other related information technology services.
- While the Strategic Plan is intended to uncover such entities, this phase of the grant program will be devoted to providing funding and development public/private partnerships with such entities in order to best facilitate the reach of broadband into areas and community groups (e.g., elderly, rural, minorities) that lack digital literacy or opportunity to possess and use computers to utilize broadband services.
- The state will accordingly propose to develop partnerships, particularly with those organizations that have significant past experience providing technical assistance, an effort that will require coordination with long-standing volunteer and non-profit programs that provide digital literacy and small business broadband training. The state would expect to utilize NRIA grant funding to support the efforts of local groups, hopefully in conjunction with existing programs funded by Internet service providers through public/private partnerships.

SBDD PURPOSE: The SBDD-related purpose that the project addresses and an explanation of how the project relates to that purpose.

- The state of Connecticut intends to achieve success in all aspects of the vital public policy goals identified by the NTIA and the FCC in its National Broadband Plan, and to be further refined on the state level by the Strategic Plan, but of course particularly in the development of state plans to support broadband and IT growth and adoption-gathering of data to benchmark success over time, and to convene statewide or regional events to disseminate technical information
- The state fully intends to develop systems, commencing with its appointment of a Broadband Policy and Programs Coordinator, that will best identify and utilize the performance of both internal and external entities to enhance the state's ability to develop and provide baseline assessment of broadband deployment in Connecticut, ultimately converting that knowledge base into action by local groups to implement processes that encourage broadband service usage.
- In this way, the state will have the capacity to identify and track the specific geographic or sector divisions with low levels of deployment, and will be able to utilize the services of appropriate local entities possible suppliers in order to most efficiently establish and enhance computer ownership and Internet across the state.

Detailed Description Of Each Proposed Project

Fourth Proposal = Application Usage and Development (by state, regional and local government)

NAME: Project name and one sentence description

- **Application Usage and Development (by state, regional and local government):**
- This proposal requests funding to give action to the public policy goals developed in the Strategic Plan focused on the implementation of the state's own resources, agencies and other public entities) to encourage use by residents and business by the example of state government, as well as by enhancing the reach of government functions through broadband, thus promoting greater interaction among the government entities, as well as forming partnerships across stakeholder groups.

FUNDS AWARDED: Amount that has already been awarded by the Program Office for this project, or for activities that are part of this project

- In addition to the \$1,333,969 already granted to the state of Connecticut by the NTIA for data gathering and mapping, which will form the initial basis for research and development of a comprehensive plan for implementing processes that will enhance broadband usage in this state, the NTIA has awarded Connecticut \$499,800 to develop a Strategic Plan.
- One key element of the state's Strategic Plan will be the identification of methods the state itself can better utilize broadband services in its own operations as well as promoting use of broad services by its citizenry in relations with the state's operations.

FUNDS REQUESTED: Level of funding requested from the SBDD Grant Program for this project

- \$1,000,000

PROBLEM: The problem the project is addressing

- The state presently lacks the funding and personnel devoted to the purpose to give action to the public policy goals which will be developed in the Strategic Plan focused on the implementation of the state's own resources, agencies and other public entities) to encourage use by residents and business by the example of state government, as well as by enhancing the reach of government functions through broadband, thus promoting greater interaction among the government entities, as well as forming partnerships across stakeholder groups.
- The NTIA mapping project has sparked the proposed launch of a broadband-specific website to be maintained by the state which will display mapping data,

but also can serve to provide information regarding the issues confronting potential users of broadband services. Further, through outreach programs, the state hopes to be able to aid potential users with understanding how access to the Internet and other broadband services can help them in their lives and business affairs. This process is only just beginning in Connecticut and the NTIA funding will be vital to its success.

SOLUTION: The proposed solution (e.g., a clear description of the project activities and proposed timeline). Awardees should note if the solution described here is part of a larger project funded through other public or private entities.

- This proposal will utilize the data developed through the mapping project as well as the public policy goals and practical solutions identified in the Strategic Plan to develop the foundation needed to create technology and administrative solutions needed to implement projects that will bring the reality of computer use and broadband services to the widest number of Connecticut residents and businesses as possible.
- The state will of course be capable to a limited degree presently, but hopefully will be in a better financial position in the future to fund many of the activities proposed in this project.
- Existing state activities can be amended based on best practices and increased awareness through the data and Strategic Plans developed with the NTIA grant funding so benefits should be realized early in the grant term.
- It is anticipated that the applications developed will embrace the concept of open government and will be built upon the principles of Gov 2.0 and create platforms that enable the citizens of Connecticut to enhance and build upon the data that is exposed using data.gov methodology.
- It is also anticipated that social marketing technologies will be used to create a culture of open communication, create public, private, citizen feedback loops and improve civic participation.

OUTCOMES AND BENEFITS: The anticipated outcomes and benefits of the project

- The state's goal in this project is to enabling state government (and in time, extending benefits to the state's 169 municipalities) to accelerate broadband application development and usage in key areas of government, such as education, economic development, or transportation.
- The state intends to use the NTIA grant money and its own resources in the creation of a www.data.gov -type website for the state's activities and interactions with its partners and residents.
- The state also intends to enhance other types of Internet support for promoting broadband among residents and businesses in all aspects of their interactions with the state.
- The state expects to identify and develop enhanced mobile (e.g., iPhone and Android) support for Web mapping applications (speed test, crowd sourcing) and opportunities to introduce new users of such services, and enhance the usage of existing users.

- The state intends to encourage municipal portals to expose broadband availability data on a more local level through the community technical assistance groups, to provide demographic and economic data to citizens and businesses to promote economic development across the state through the use of broadband services.

COST: The cost of the proposal in light of the previous factors (e.g., a justification of the reasonableness and cost-efficiency of the project)

- Existing state activities can be amended based on best practices and increased awareness through the data and Strategic Plans developed with the NTIA grant funding so benefits should be realized early in the grant term.
- The state has a substantial investment in information technology services, including a highly successful and well-developed Connecticut Education Network (CEN) system stretching to all corners of the state. That system has applied for BTOP funding to further extend its reach to less developed parts of the state and to increase the speed of its services.
- The FCC has recently revised its regulation to encourage the use of E-rate funded networks such as CEN beyond the original populations, a regulatory revision that will allow the state to capitalize on its existing resources quite efficiently in the provision of high-speed infrastructure to areas currently lacking that capacity.

SBDD PURPOSE: The SBDD-related purpose that the project addresses and an explanation of how the project relates to that purpose

- The state of Connecticut intends to achieve success in all aspects of the vital public policy goals identified by the NTIA and the FCC in its National Broadband Plan, and to be further refined on the state level by the Strategic Plan, but of course particularly in the development of its own plans to support broadband and IT growth through enhancing its interactions with its residents, businesses, and other entities with which it works and provides services.
- The state fully intends to develop systems that build on its existing infrastructure and resources to best identify and utilize the performance of both internal and external entities to enhance the state's ability to deliver information and services.
- By a steady and deliberate conversion of its existing methods of operating, including upgrades to its infrastructure that it will finance on its own, the state will be able to utilize its increased knowledge base into action by local groups to implement processes that encourage broadband service usage.
- Through the resource encouragement allowed it by the NTIA grant funding, the state of Connecticut will have the opportunity to successfully locate and facilitate local technology planning teams with expertise in technology assistance as quickly as possible.
- The increased use of broadband services by the state itself will encourage the development of collaborative efforts with public/private partnerships with broadband service providers and information technology companies to encourage deployment and use of computers and broadband services.
- The increased use of broadband services by the state itself will help it to focus on identifying and increasing the rate at which residential and business users adopt broadband service and other related information technology services.

- Further by this increased interaction by the state with its various partners and residents, the state will have the capacity to identify and track the specific geographic or sector divisions with low levels of deployment, and will be able to utilize the services of appropriate local entities possible suppliers in order to most efficiently establish and enhance computer ownership and Internet across the state.

Description of how the proposed projects fit into state's comprehensive approach toward leadership in a digital economy

The proposals made to the NTIA for grant funding in this 2nd Application each represents the most logical next step to best benefit and enhance the state's comprehensive approach toward leadership in a digital economy. While the state will eventually complete all aspects of the State's Plan, the funding opportunity offered by the federal government through the NTIA grants will jumpstart many aspects of the state's public policy goals regarding broadband usage by its residents and businesses.

The State believes and, through the actual allocation of resources, has demonstrated its commitment to broadband expansion, that what was once "good enough" eventually becomes substandard, and what was once a "luxury" becomes the new standard. This pattern is not to be feared or suppressed, but in fact forms the core belief in the State's Plan. Citizens in colonial Connecticut probably did not give much thought to the source of their drinking water or how they disposed of wastes, but now these details of daily life are taken for granted, as they assuredly must be. When the telephone was first invented, it was seen by many as a toy or extravagance, but by the 1930s it became public policy to extend voice service to all Americans. Connecticut remains proud of its heritage in the history of the telephone, being the site of the first switch and the first phone number directory. Likewise, in the 1960s, computers were used only by governments, university researchers and very large companies, while today personal computers are a vital center of learning, conducting business, and communicating in millions of households and businesses.

Similarly, the State's Plan regards broadband as now being a basic utility, indispensable to each citizen and business in Connecticut. The State thus believes that it must focus a wide variety of its resources on ways to encourage or require the owners and providers of broadband, public and private, to extend service in an economically feasible manner to everyone in both rural and inner city areas to ensure that no citizen is left behind. To this end, the State intends to focus on both the last- and middle-mile infrastructure, through public safety, education, and health service provisioning, just to name a few, to most efficiently eliminate bottlenecks in both unserved and underserved areas. Whatever the difficulties that might be encountered in extending the reach of broadband to all areas of the country, such obstacle must not be allowed to diminish the State's Plan in placing this goal as paramount to the needs of its citizens.

The State's Plan expressly takes into account the positive externalities associated with increased broadband subscribership, and will not tolerate any excuse for delay in bringing the benefits of broadband to all citizens, particularly those who are hardest to reach and who are least able to avail themselves of broadband.

All of the agencies and their affiliates involved in this application process, along with the Governor's office and other state agencies, have a long history of cooperating among themselves to develop synergies in order to prioritize resources to more efficiently and effectively utilize market, business, and technical assets to the benefit of the public and the State itself. The process that has been developed in Connecticut favoring collaboration with a broad range of other state or federal development programs that leverage outside resources in order to maximize

the impact of the proposed project reflects a state policy of addressing more than one statutory purpose and project category.

It is with this policy in mind that the State can readily attest to the fact that this application and applicant have the organizational capability necessary to promptly start these projects and assure the grantors that each will be completed in an appropriate timeframe for the size and scope of the project, pursuant to well-articulated time and budget milestones. This ability to undertake and complete the projects of course includes the State's pledge regarding the long-term sustainability of each. It should be apparent that linkages to unaffiliated organizations in the project area, including public, nonprofit, and private entities, as well as community anchor institutions and public safety organizations, will continue to be an ongoing and integral part of the project planning and operation, to be fully sustained beyond the funding period.

Further, for example, there is a compelling need for state action to jumpstart the "demand-side focus" of the State's Plan, including steps to increase computer penetration and computer literacy. It will also be imperative to include municipalities as key players in the effort to more fully deploy broadband service throughout the State.

The identification of communities that unduly suffer from barriers to the adoption of broadband service and information technology services, which further use of State agencies in collaboration with private entities, such as broadband service providers and information technology companies, can successfully encourage deployment and use by the public. Through the use of academic and other State resources, including collaboration with private providers operating in the field, the State proposes to collect and analyze data derived from examination of market conditions concerning the use and demand for broadband service on a variety of levels throughout the State's regions and populations. Use of this data will provide the foundation for resolving this problem.

For instance, with regarding to broadband mapping, the State Plan develops a workable and sustainable framework for repeated updating of data across the next five years, a challenge that squarely meets with the State's own public policy goals for sustainability and continued meeting of the demands for broadband that its citizens have voiced. The State has excellent groups of employees involved in developing cutting-edge maps for a wide variety of purposes for a broad base of agencies and public policy goals, and the Recovery Act opportunity provides a moment to create a mapping database and presentation resource that is truly helpful in planning and implementing the State's future broadband initiatives. While the State has the capacity to create vital and comprehensive maps with the funding infusion proposed under the Recovery Act, the value of a concerted mapping effort will lie in the details of the data—and in the ability to relate the underlying data to the policy and program issues described in the State's broadband plan .

Appendices (attached as separate digital files):

- 1. (Budget Spreadsheet – summary, request (fed), budget (match), contracts budget-
= attached as a separate Excel spreadsheet)**
- 2. Budget Narrative Spreadsheet = attached as a separate Excel spreadsheet)**
- 3. Standard Form 424**
 - i. See attached form.
- 4. Standard Form 424A**
 - i. See attached form.
- 5. Standard Form 424B**
 - i. See attached form.
- 6. Man-Hour Breakdown - Data Collection, Integration, Verification and Display**
 - i. Appended to this Application is a man-hour breakdown for the years 3 to 5 program.
- 7. Evidence of support –documents from state, local communities and other beneficiaries of NTIA grant funding**
 - i. See attached letters.

Personnel	Broadband Policy & Programs Coordinator: Will fund .5 FTE for to help with enhancing communication for industry providers, non-profits, or municipal local groups as being the single entity to contact or interact with to accomplish the state's public policy goals. federal funds will support .25 FTE with State funds funding the other .25 FTE	\$104,433	\$104,433	\$208,866
Fringe Benefits	Fringe benefit calculated at 58% of \$104,433 for .25 FTE salary of coordinator position		\$60,571	\$60,571
Equipment	Funds will be used to purchase server hardware and associated software to support the state Application Usage and Development proposal. As the exact scope has not been fully developed this is an estimated cost based on other IT projects of similar size that the state has undertaken		\$50,000	\$50,000
Subcontracts	Contractor for data collection, analysis: Costs associated with this task are based on the current rate in negotiated between the state and it's current vendor for work under the scope of work approved by the NTIA. This will support the ongoing data collection, maintenance, update, and display activities.	\$1,578,597		\$1,578,597
	Address File: Within the scope of the project for Year 1 and 2, the State of Connecticut is collecting and standardizing all digital parcel data that is available in the state for use in geocoding. This is the foundation of the base map for the state's broadband mapping program. There are still areas of the state, the rural areas of the state, which do not have digital parcels. The State's Vendor will collect assessors' tax maps for these municipalities and automate the remaining parcels in the state	\$487,749		\$487,749
	Future Leading Practices: Leading Practices A number of leading practices have been identified in the grant guidance document that Connecticut feels can benefit the program in this area if implemented. <ul style="list-style-type: none"> • Address Level Collection: • Speed Geography: • Resellers: • Free Public WiFi: • Data Confidence Scale • Provider/public feedback loop: Costs associated with these tasks are based on existing rates agreed upon by the current vendor and the State	\$341,585		\$341,585
	Technical Assistance: Connecticut intends to provide "technical assistance" to local groups, non-profit groups, or industry providers in terms of technology strategy development, train-the-trainer activities, and sustainability planning, which will be accomplished through the use of the data developed in the mapping project, enhanced by expert analysis in the public policy strategic plan for enhancing broadband usage and ultimately implemented through this aspect of the state's plan. Connecticut intends to issue a request for proposal or similar competitive grant opportunity for groups to pursue in accordance with the requirements of the SBDD program	\$1,000,000		\$1,000,000
	Application Usage and Development: The state intends to use the NTIA grant money and its own resources in the creation of a www.data.gov type website for the state's activities and interactions with its partners and residents. In addition the state also intends to enhance other types of Internet support for promoting broadband among residents and businesses in all aspects of their interactions with the state.	\$850,000		\$850,000
Other	Miscellaneous expenses related to capacity building coordinator position	\$20,564		\$20,564

	Data Licensing (Data collection and analysis): These costs are based on the expenditures which the state has and will be making for various data that are used as part of the SBDD program, including roadnetwork data and parcel data		\$800,000	\$800,000
	Technical Assistance (matching): The state intends to utilize a competitive program to award grant funds for technical assistance program. The state will require that applicants contribute a minimum of 20% match in services, cash, or equipment. The state will give preference to not-for-profit groups that are able to leverage industry partnerships		\$200,000	\$200,000
	Data Investments (Application Development & Usage): The state intends to utilize data and services which it currently funds on an ongoing basis to support activities in the Application Development and Usage category		\$200,000	\$200,000
TOTAL			\$4,382,928	\$1,415,004 \$5,797,932

Task Description	Program Manager	Project Manager	Developer/DBA	Senior Analyst	Junior Analyst	Technician	Total Hours	Expenses	Subtotal
	\$	\$	\$	\$	\$	\$		\$	\$
Project Management									
Revise Project Work Plan development and update	57	227	0	0	0	0	284	\$	\$ 48,140
Weekly status conference calls, onsite meetings and meeting minutes	161	323	0	0	0	0	484	\$ 7,000	\$ 87,423
Monthly progress reports	38	191	0	0	0	0	227	\$	\$ 38,686
Project management (contract, staff and financial management)	258	120	0	0	0	0	378	\$	\$ 66,308
Subtotal	512	860	0	0	0	0	1372	\$ 7,000	\$ 236,537
Process changes due to change in program									
Project and technical meetings with providers/communities/trade associations	72	83	0	0	0	0	155	\$ 5,500	\$ 31,771
Update/maintain list of providers, contact logger maint. and update	0	276	98	0	0	0	372	\$	\$ 56,070
Modify data request based on database changes and technical data delivery methods to reflect program changes	69	198	77	0	0	0	283	\$	\$ 44,394
Contact new providers to request NDA/data	0	173	0	0	0	1052	1224	\$	\$ 109,990
Convert data to Census 2010 reference files	0	44	53	27	33	47	203	\$	\$ 25,178
Establish new NDA's with new providers and update existing (lawyers and paralegals)	50	165	0	0	0	58	273	\$	\$ 39,776
Subtotal	191	878	226	27	33	1157	2511	\$ 6,500	\$ 307,179
Repeated Broadband Data Preparation and Processing									
Initial profiling and loading of raw data from provider	90	130	0	31	139	300	469	\$	\$ 43,023
Data processing of provider data	0	60	0	0	1200	0	1260	\$	\$ 103,950
Geoprocessing of provider customer data	0	0	0	0	1402	0	1402	\$	\$ 110,428
Data processing of community anchor institution data	0	12	0	0	0	240	252	\$	\$ 20,790
Create NTIA export file (6 deliveries)	0	24	0	160	0	0	184	\$	\$ 28,980
Subtotal	0	96	0	191	139	3142	3568	\$	\$ 307,171
Analysis and Static Map Creation									
Socioeconomic, demographic data update, analysis and static map creation	0	96	0	64	0	480	640	\$	\$ 63,000
Produce draft and final maps for each county & statewide	0	96	0	64	0	480	640	\$	\$ 63,000
Subtotal	0	192	0	128	0	960	1280	\$	\$ 126,000
NTIA Reporting									
Provide support for NTIA submission	48	144	0	0	0	0	192	\$	\$ 31,500
Provide support for NTIA quarterly reports	32	48	0	0	0	0	80	\$	\$ 13,440
Prepare data analysis report for NTIA	0	151	0	0	0	0	151	\$	\$ 23,814
Subtotal	80	343	0	0	0	0	423	\$	\$ 68,754
Verification & Validation									
Wireline verification	48	0	0	0	0	491	539	\$	\$ 47,525
Wireless verification	0	100	0	0	0	180	280	\$ 172,500	\$ 202,425
FCC Speed Test Incorporation	35	0	83	0	0	351	478	\$	\$ 46,126
Subtotal	83	100	83	0	0	1021	1297	\$ 172,500	\$ 296,076
Web Applications									
Maintenance of web applications	0	144	720	0	0	0	864	\$	\$ 117,180
Hosting of web applications	0	0	40	0	0	0	40	\$	\$ 0
Enhancements to web applications	24	48	504	0	0	24	600	\$	\$ 80,010
Additional browser support (Safari)	0	48	240	0	0	18	296	\$	\$ 39,690
Subtotal	24	48	1464	0	0	132	1760	\$	\$ 236,880
Parcel collection and standardization									
Subtotal Years 3 to 5 Data Collection, Integration, Validation, Display	890	2709	1782	345	172	6312	12211	\$ 185,000	\$ 1,578,597
Address Data Modifications									
Modify internal data models for address point inclusion	0	32	48	0	0	0	80	\$	\$ 11,340
Modify existing ETL processes for address points	10	32	32	67	0	0	109	\$	\$ 16,275
Modify NTIA export routines for addressing data	0	4	19	11	0	0	34	\$	\$ 4,830
Complete parcels for remainder of rural areas of state	200	522	60	128	0	3228	4138	\$	\$ 401,223
Clean addresses in parcel layer in rural areas of state	0	57	48	225	0	0	330	\$	\$ 50,720
Create new reference file from parcel data	0	0	0	21	0	0	21	\$	\$ 3,360
Subtotal	200	625	207	452	0	3228	4712	\$	\$ 487,749

CONNECTICUT STATE LIBRARY



KENDALL F. WIGGIN
State Librarian

July 1, 2010

Lawrence E. Strickling
Assistant Secretary for Communications & Information and
Administrator, National Telecommunications and
Information Administration
U.S. Department of Commerce / NTIA
Herbert C. Hoover Building (HCHB)
1401 Constitution Avenue, N.W.
Washington, D.C. 20230

Dear Assistant Secretary Strickling:

On behalf of the Connecticut State Library, I am writing to support the state of Connecticut's pending application to the National Telecommunications and Information Administration ("NTIA") for the recently announced expanded grant opportunity in the NTIA's State Broadband Data and Development Grant Program ("SBDD").

In addition to the state and national broadband goals the DPUC's participation in the SBDD program has served, there are benefits to the State Library and the public, school, and academic libraries throughout the state from NTIA grant funding for the state to develop a Strategic Plan for statewide initiatives to collect and analyze detailed market data concerning use and demand for broadband service in order to identify implementation methods to remove barriers to the adoption of broadband service and information technology services.

We are particularly interested in the Plan's goal of creating local technology planning teams by designated regions within the state in collaboration with broadband service providers and information technology companies. Most libraries in the state do not have the expertise to effectively do this on their own. The state plans to identify parties already existing in the state to develop public/private partnerships to promote digital literacy and providing opportunities for various groups to gain or enhance access to broadband services. Digital literacy is a role that we are encouraging libraries to take on and the partnerships that will be developed as part of this grant will go a long way to furthering the library's and community's capacity to address the very real issue of digital literacy.

Thank you for your attention and consideration of the state's application.

Sincerely,

A handwritten signature in cursive script that reads "Kendall F. Wiggin".

Kendall F. Wiggin

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Town of Manchester

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www.ci.manchester.ct.us

LOUIS A. SPADACCINI, MAYOR
LEO V. DIANA, DEPUTY MAYOR
LISA P. O'NEILL, SECRETARY

DIRECTORS
RUDY C. KISSMANN
JAY MORAN
MATTHEW B. PEAK
CHERI A. PELLETIER
MARK D. TWEEDIE
KEVIN L. ZINGLER

SCOTT SHANLEY, GENERAL MANAGER

June 25, 2010

Lawrence E. Strickling
Assistant Secretary for Communications & Information
Administrator, National Telecommunications and
Information Administration
U.S. Department of Commerce

Dear Assistant Secretary Strickling:

The Town of Manchester, in the National League of Cities "Digital Cities Survey", places technically in the top 10 nationally for our size cities (50,000 to 70,000). The Manchester Information Systems department, over which I am the CIO, uses a GIS layer containing Utility Poles over which our city-wide fiber optic network connects all municipal and school district buildings. This pole layer is important to managing this broadband network.

The established value of the GIS Network Layer in our municipality is a basis for our advocating this be developed for the rest of our state to encourage Broadband development and deployment. I am writing to support the Connecticut Department of Public Utility Control's ("DPUC") pending application to the National Telecommunications and Information Administration ("NTIA") for the recently announced expanded grant opportunity in the NTIA's State Broadband Data and Development Grant Program ("SBDD"). In addition to the state and national broadband goals that the DPUC's participation in the SBDD program has served, there are established short term budgetary benefits in this difficult economy to Manchester from the program's data collection and verification program. This improved collection would further the cause of interconnecting municipalities for technology services sharing over broadband by giving municipalities a complete picture of the paths to accomplish this connectivity.

The ability to access updated data for five years rather than just two and the possible completion of parcel information for the remainder of the state will not only prove invaluable to our city but will assist us in integrating information with other agencies and municipalities in mutual programs.

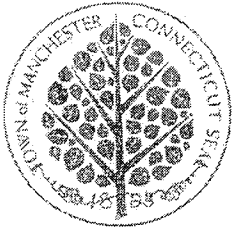
Thank you for your attention and consideration of the DPUC's application.

Sincerely,

Jack McCoy
Chief Information Officer (CIO)
Town of Manchester
494 Main Street,
Manchester, Connecticut 06040
Office Phone 860 647 3072

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Town of Manchester

41 Center Street • P.O. Box 191
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LOUIS A. SPADACCINI, MAYOR
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LISA P. O'NEILL, SECRETARY

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JAY MORAN
MATTHEW B. PEAK
CHERI A. PELLETIER
MARK D. TWEEDIE
KEVIN L. ZINGLER

SCOTT SHANLEY, GENERAL MANAGER

July 1, 2010

Lawrence E. Strickling
Assistant Secretary for Communications & Information and
Administrator, National Telecommunications and Information Administration
U.S. Department of Commerce / NTIA
Herbert C. Hoover Building (HCHB)
1401 Constitution Avenue, N.W.
Washington, D.C. 20230

Dear Assistant Secretary Strickling:

As the Chairman of the Capital Region Council of Government (CRCOG) Shared Technology Committee and General Manager of the Town of Manchester, Connecticut, I am writing to support the State of Connecticut's pending application to the National Telecommunications and Information Administration ("NTIA") for the recently announced expanded grant opportunity in the NTIA's State Broadband Data and Development Grant Program ("SBDD").

In addition to the state and national broadband goals that the DPUC's participation in the SBDD program has served, there are benefits to the region (CRCOG) and to The Town of Manchester from NTIA grant funding. Both individual citizens and governmental services will benefit should the State develop a Strategic Plan for statewide initiatives to collect and analyze detailed market data concerning use and demand for broadband service in order to identify implementation methods, to remove barriers to the adoption of broadband service, and, enhance information technology services, especially municipality to municipality.

We are particularly interested in the Plan's goal of creating local technology planning teams by designated regions within the state in collaboration with broadband service providers and information technology companies. The State plans to identify parties already existing in the state to develop public/private partnerships to promote digital literacy and providing opportunities for various groups to gain or enhance access to broadband services.

Thank you for your attention and consideration of the state's application.

Sincerely,

Scott Shanley
General Manager of The Town of Manchester
and Committee Chairman for The CRCOG Shared Technology Committee

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THE VOICE OF LOCAL GOVERNMENT

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Past Presidents: Elizabeth C. Paterson, Mayor of Mansfield; Herbert C. Rosenthal, Former First Selectman of Newtown; John Welchsel, Town Manager of Southington; John DeStefano, Jr., Mayor of New Haven; Stephen T. Cassano, Selectman of Manchester

Executive Director and CEO: James J. Finley, Jr.

June 28, 2010

Mr. Lawrence E. Strickling
Assistant Secretary for Communications & Information and
Administrator, National Telecommunications and
Information Administration
U.S. Department of Commerce
1401 Constitution Ave., NW
Washington, DC 20230

Dear Assistant Secretary Strickling:

The Connecticut Conference of Municipalities supports the pending application of the Connecticut Department of Public Utility Control ("DPUC") to the National Telecommunications and Information Administration ("NTIA") for the recently announced expanded grant opportunity in the NTIA's State Broadband Data and Development Grant Program ("SBDD").

Implementation of a broadband network in Connecticut would help improve the efficiency with which local governments communicate and do business. Further, the possible completion of parcel information for the state will be of great assistance to our municipal members. It will assist them in exchanging information with other agencies and municipalities – an important consideration given Connecticut's efforts to spur regional cooperation.

Thank you for your attention and consideration of the DPUC's application.

Sincerely,

James J. Finley, Jr.
Executive Director and CEO



STATE OF CONNECTICUT

DEPARTMENT OF AGRICULTURE
OFFICE OF THE COMMISSIONER



F. Philip Prelli
Commissioner

June 25, 2010

Tel: (860) 713-2500
Fax: (860) 713-2514

Lawrence E. Strickling
Assistant Secretary for Communications & Information
and
Administrator, National Telecommunications and
Information Administration
U.S. Department of Commerce

Dear Assistant Secretary Strickling:

Our Department is writing to support the Connecticut Department of Public Utility Control's ("DPUC") pending application to the National Telecommunications and Information Administration ("NTIA") for the recently announced expanded grant opportunity in the NTIA's State Broadband Data and Development Grant Program ("SBDD"). In addition to the state and national broadband goals the DPUC's participation in the SBDD program has served, there are benefits to our Department just from the program's data collection and verification program. For instance, the data integration and display opportunities from geographic information disciplines required for the SBDD program help support our mission.

In particular, the ability to update data for five years rather than just two and the possible completion of parcel information for the remainder of the state will not only prove invaluable to our Department but will assist us in integrating information with other agencies and municipalities in mutual programs.

Thank you for your attention and consideration of the DPUC's application.

Sincerely,

A handwritten signature in black ink, appearing to read "F. Philip Prelli".

F. Philip Prelli, Commissioner
CT Department of Agriculture



STATE OF CONNECTICUT
**Department of
Information Technology**



June 28, 2010

Lawrence E. Strickling
Assistant Secretary for Communications & Information
& Administrator, National Telecommunications and
Information Administration
U.S. Department of Commerce
Herbert C. Hoover Building (HCHB)
1401 Constitution Avenue, NW
Washington D.C. 20230

Dear Assistant Secretary Strickling:

The Connecticut Department of Information Technology (DOIT) is writing to support the Connecticut Department of Public Utility Control's (DPUC) pending application to the National Telecommunications and Information Administration for the recently announced expanded grant opportunity in the NTIA's State Broadband Data and Development Grant Program (SBDD). In addition to the state and national broadband goals the DPUC's participation in the SBDD program has served, there are benefits to DOIT and the State of Connecticut from the program's data collection and verification program. DOIT is responsible for providing telecommunications services to all of the State's executive branch agencies, including the public safety and emergency management and homeland security functions.

It is imperative that we be able to provide communication services that are fully operational and reliable in the course of performing public safety missions. DPUC's Broadband Mapping project is providing information that we have had difficulty securing from the private telecommunications carriers, who prefer to protect their coverage information as proprietary, and which has contributed to loss of communications services in some state sectors for our public safety officials and staff. The mapping project is providing greater insights into the availability and reliability of support throughout our state, so that we can ensure appropriate coverages, and further ensure the safety of our state residents, visitors and public safety staff.

In addition, the funds associated with this planning grant will enhance and improve on the overall effectiveness and coordination of Broadband initiatives that are already underway in Connecticut. Initiatives already underway are as follows:

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www.ct.gov/doit

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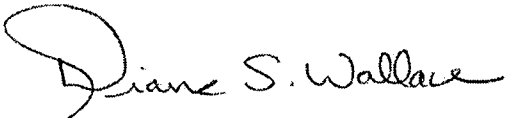
- The collection of broadband related data including the speed and type of technology, at a census block level of greater than 2 miles at road segment level.
- The development of Statewide Broadband Maps.
- Development of a Statewide Strategic Plan for statewide initiatives to be executed over the next few years directed at broadband initiatives.
- Implementation of a new broadband Public Safety Data Network.
- Implementation of a new broadband Public Safety E-911 Data Network.
- Upgrade and expansion of broadband coverage on the Connecticut Education Network to include educational institutions, public libraries and other anchor institutions.

Additionally, this grant will provision the State of Connecticut with:

- The establishment of a dedicated, focused resource to assure continuity between planning and implementation across all broadband initiatives that will:
 - Improve coordination between public and private sector entities,
 - Provision for the required technical expertise,
 - Provision for required training programs,
 - Improve overall collaboration of all vested parties,
 - And manage all program funding.
- Provide technical assistance to local regional Technology Planning Teams and programs to improve computer ownership and internet usage.
- Support the creation of technology and administrative solutions required to support and implement projects designed to expand computer use and broadband services to the largest number of Connecticut residents and businesses.

Thank you for your attention and consideration of the DPUC's application.

Sincerely,



Diane S. Wallace
Chief Information Officer
Department of Information Technology
State of Connecticut



STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC SAFETY
OFFICE OF THE COMMISSIONER



James M. Thomas
Commissioner

Lieutenant Edwin S. Henlon
Chief of Staff

June 25, 2010

Lawrence E. Strickling
Assistant Secretary
Communications & Information
Administrator
Herbert C. Hoover Building (HCHB)
U.S. Department of Commerce / NTIA
1401 Constitution Avenue, N.W.
Washington, D.C. 20230

Dear Assistant Secretary Strickling:

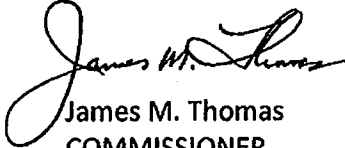
I am writing on behalf of the Department of Public Safety ("DPS") to support the Connecticut Department of Public Utility Control's ("DPUC") pending application to the National Telecommunications and Information Administration ("NTIA") for the recently announced expanded grant opportunity in the NTIA's State Broadband Data and Development Grant Program ("SBDD").

In addition to the state and national broadband goals the DPUC's participation in the SBDD program has served, there are benefits to DPS just from the program's data collection and verification program. For instance, the data integration and display opportunities from geographic information disciplines required for the SBDD program help support our mission.

In particular, the ability to update data for five years rather than just two and the possible completion of parcel information for the remainder of the state will not only prove invaluable to DPS, but will assist us in integrating information with other agencies and municipalities in mutual programs.

Thank you for your attention and consideration of the DPUC's application.

Sincerely,


James M. Thomas
COMMISSIONER

1111 Country Club Road
Middletown, CT 06457
Phone: (860) 685-8000 / Fax: (860) 685-8354
An Equal Opportunity Employer

State Broadband Data and Development Grant Program

NTIA Grant = RIN 0660-ZA29

DEPARTMENT OF COMMERCE

National Telecommunications and Information Administration

Grantee : The State of Connecticut

Department of Public Utility Control

Amended and Supplemental Application

Being a single plan to the NTIA Program Office that incorporates a proposal for up to an additional three years of broadband data collection, integration, validation and display and up to four additional years to support programs that implement Other Program Purposes

July 1, 2010

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Project Abstract:

Description Of Each Project For Which The Awardee Is Requesting Amended Or Supplemental Funding

- **Data Collection, Integration, Verification and Display.**

The purpose of this project is to continue the collection, integration, verification and display of broadband data within the State of Connecticut for years 3 through 5 of the program, to enhance the program by improving data in census blocks greater than 2 square miles, to implement a number of leading practices into the program and to support other related activities through current and accurate data.

- **Other SBDD Program Purposes**

The best use of the already-funded planning project (Strategic Plan) and consultants is to identify and research methods for implementing the public policy goals already identified by the state of Connecticut and the NTIA, and including the FCC's National Broadband Plan.

- **State Broadband Capacity Building** = The creation of a position dedicated to the ARRA broadband grant program: "Broadband Policy and Programs Coordinator, State ARRA Broadband Stimulus Office"
- **Technical Assistance** = Connecticut to provide "technical assistance" to local groups, non-profit groups, or industry providers in terms of technology strategy development, train-the-trainer activities, and sustainability planning, which will be accomplished through the use of the data developed in the mapping project.
- **Application Usage and Development (by state, regional and local government)** = To give action to the public policy goals developed in the Strategic Plan by the implementation of the state's own resources, agencies and other public entities to encourage use by residents and business by the example of state government.

Budget Narrative

(Budget – summary, request (fed), budget (match), contracts budget-
= attached as a separate Excel spreadsheet)

- 1) **Data Collection, Integration, Verification and Display.**

Appended to this Application is a man-hour breakdown for the years 3 to 5 program.

The cost for the data collection, integration, verification and display for years 3 to 5 is \$1,578,597.

The cost to incorporate addressing which includes completing the parcels for the remainder of the state is \$487,749.

The table below displays the calculation for the cost that should be carried under Other SBDD programs for Leading Practice Implementation:

Item Description	Project Cost
Repeated Data Updating Costs	\$1,578,597
Address File Cost	\$ 487,749
Original Mapping Grant Amount	\$1,349,500
Total Mapping Costs	<u>\$3,415,846</u>

- 2) **Other SBDD Program Purposes**

Item Description	Project Cost	
Future Leading Practice Implementation Costs	\$ 341,585	10% Total Mapping Program Cost
State Broadband Capacity Building	\$ 125,000	
Technical Assistance	\$1,000,000	
Application Usage and Development	<u>\$1,000,000</u>	
Total Other SBDD Program Purposes Costs	\$2,466,585	

Project Narrative:

- **Amount of funding already awarded, amount requested, sum of both.**

Current Funding already obligated by NTIA = \$1,833,769

Amount of Funding requested in this proposal = \$5,882,431

The sum of these two amounts = \$7,716,200

- **Description Of The Activities Already Approved And The Amount Of Funding Already Awarded:**

Current Funding: \$1,833,769 total grant

The NTIA Grant currently supports two approved activities in this grant to a state agency Designated Entity, both planned and executed under direct state supervision :

1) \$1,333,969 data gathering and mapping:

The gathering of broadband-related data at the state level and the development of statewide broadband maps, including speed and type of technology, at a census block level, and for census blocks greater than two square miles, at a road segment level.

2) \$499,800 Strategic Plan:

The development of a Strategic Plan for statewide initiatives to collect and analyze detailed market data concerning use and demand for broadband service in order to identify implementation methods to remove barriers to the adoption of broadband service and information technology services, particularly by the creation of local technology planning teams by designated regions within the state in collaboration with broadband service providers and information technology companies.

- **Summary Description Of Each Project For Which The Awardee Is Requesting Amended Or Supplemental Funding =**
 - **Data Collection And Mapping** = The gathering of broadband-related data at the state level and the development of statewide broadband maps.
 - **State Broadband Capacity Building** = The creation of a position dedicated to the ARRA broadband grant program: “Broadband Policy and Programs Coordinator, State ARRA Broadband Stimulus Office”
 - **Technical Assistance** = Connecticut to provide “technical assistance” to local groups, non-profit groups, or industry providers in terms of technology strategy development, train-the-trainer activities, and sustainability planning, which will be accomplished through the use of the data developed in the mapping project.
 - **Application Usage and Development (by state, regional and local government) =** To implement the state’s own resources, agencies and other public entities to encourage use by residents and business by the example of state government.

Detailed Description Of Each Proposed Project

First Proposal – Data Collection and Related Activities

[Name] Data Collection, Integration, Verification and Display

The purpose of this project is to continue the collection, integration, verification and display of broadband data within the State of Connecticut for years 3 through 5 of the program, to enhance the program by improving data in census blocks greater than 2 square miles, to implement a number of leading practices into the program and to support other related activities through current and accurate data.

[Funds Awarded] – Connecticut has received \$1,333,969 data gathering and mapping for years 1 and 2.

[Funds Requested] – Amount of funding requested for this program = \$ 3,757,431 for years 3-5

[Total Amount of #2 and #3] \$5,091,400.

[Describe Currently Funded Activities]

Connecticut has retained a third party mapping Vendor to perform the broadband mapping components of Connecticut's program which include:

- Identifying and communicating with the broadband providers and tracking all communications
- Establishing an NDA as required
- Collecting raw service availability and/or customer data, and infrastructure data from each broadband provider
- Integrating the provider data into a standardized format consistent with NTIA's NOFA and the NSGIC data model
- Validating the data against other public and commercial data sources
- Collecting and mapping ancillary data including socio-economic and demographic data, parcel data and
- Building an information portal, a speed test application, a community anchor institution application, an interactive portal for basic provider feedback, and an interactive mapping portal to allow the data to be displayed and used by end users.

Data for the first year of the program has been collected at various levels of granularity and formats, transformed into a project standard and delivered to NTIA at the census block and street segment level in an ESRI File Geodatabase format using Census 2009 geography. This process has been funded at the same level to establish the processes and perform the collection on a biannual basis, for a two-year period.

[Describe Any Proposed Changes to Previously Approved Application]

Data Gathering Methodology

Vendor has identified, categorized, and/or collected data from XX providers serving the state (including subsidiaries, affiliates, etc) and executed data sharing agreements with most of

these companies. Vendor has also collected socio-economic and demographic data from various sources and existing parcel data.

Vendor will continue this process of data collection and collect data from providers that have come into business since the first data submission, and also concentrate on collecting data from those that are known to exist, but are not yet participating, in order to provide a complete picture of broadband deployment in the State of Connecticut.

The Vendor will also continue to collect the data from those providers that are participating and work with these providers to improve the quality of the data being submitted to NTIA by educating them on the use of the Provider Portal application that has been built for a provider to perform accuracy checks after data has been standardized into NTIA formats.

Vendor will move all data to the 2010 census geography once the new census geography datasets are published.

Vendor will collect socio-economic and demographic data based on the 2010 census data collection when such data are published.

Vendor will also adopt leading practices related to data collection described in more details in the section on Leading Practices – this will include Address level data collection, speed geography in the census block/address format, data from resellers, and mapping of public WiFi locations.

Data Integration

So far, the process that has been employed for data integration has included many different techniques depending on the format and quality of the data received from the provider. The primary mechanism that has been developed is to build Extract, Transform and Load (ETL) routines to integrate the data into a production data model, and resolve the data provided to a spatial feature such as a census block or street segment. Given that the project was originally reduced from 5 years to 2 years, the Vendor reduced the budget in this area of creating ETL processes with the rationale that the cost of ETL processes did not justify the efficiencies gained for 2 years only. However, since the project is now being extended to 5 years, there is a need to complete out ETL processes that have not yet been built.

Vendor will set up ETL processes for all providers to achieve efficiencies in the long run.

The ETL processes will also need to be modified as necessary as provider submissions change, and new routines will be built as new providers emerge and are brought into the program.

After all the data are standardized into a production data model, ETL processes are also used to export the data into the format required for the NTIA submissions and to serve the data on the various portals, maps, and analysis.

Since the NTIA/NSGIC model is still evolving it is also anticipated that some changes may need to be made to the export ETL process to deliver NTIA the final format they are looking for.

Integration of data for Years 3 to 5 will also include transformation of data from the Census 2009 geography to Census 2010 geography including the processing of ancillary data related to Census 2010.

Vendor has already delivered data in the geodatabase format but will need to make changes to the format and data based on new geodatabase format provided by NTIA. Therefore, this leading practice will need to be enhanced in subsequent years. The geodatabase format requires more detailed metadata requirements from those specified in the original NOFA. More detailed metadata will be generated by the Vendor for better use of the data by the public.

Vendor will also create a format for delivery of non-confidential data.

Verification Methodology

Once standardized into the production data model each provider's data set is subject to a number of verification tests including comparing the data to commercially available data sources, publicly available datasets, and performing other spatial analysis on the data to look for spatial outliers or discrepancies.

So far, Vendor has performed validation of all non-wireless data using commercial datasets and public data such as Exchange Boundary data and cable franchise boundaries. Vendor has also done spatial analysis to improve the data. Vendor has also provided processed data back to the providers for review and QC and incorporated all changes identified by the providers. This is done through a provider portal application. Vendor will continue to do these activities for every deliverable.

In the existing years and in subsequent years, Vendor would like to do additional verification with wireless data and providers as limited verification was planned for this in the original budget. This includes commercial data such as American Roamer data and also involves driving through the state with equipment to capture wireless signals, strengths and providers. Vendor will work with a mobile mapping company to do this twice in the three years. This was not budgeted in the original proposal.

Vendor will also do additional verification using FCC speedtest data that has been made available and will continue to be received on a monthly basis. This will need to start in Year 2 of the program and was not in the original budget as the data got released at a later date.

Vendor will provide GIS and mapping support for the Other State Broadband Programs and Planning activities and use outcomes of such events for the purposes of verifying data.

Vendor will enhance the Provider Portal in Year 2 to incorporate the Leading Practices discussed by NTIA as the Provider/public feedback loop. In the current budget, Vendor's scope was to build a basic provider portal to allow providers to verify their processed data before delivery to NTIA. The Vendor will work with a focus group of the broadband providers in Connecticut to develop a provider/public feedback loop whereby the public can provide feedback to the provider in the information portal and interactive mapping application and the provider will be able to track and correspond with the public through the use of the provider portal and social networking technologies.

Vendor will also implement in the second year of the program the leading practice on Data Confidence Scale. Vendor proposes to do this at the beginning of Year 2 when there is some stability and critical mass of provider data as well as verification data points (such as speed tests, completed data collection on community anchor institutions, public feedback, etc.)

Display

The State of Connecticut is implementing the Connecticut State Broadband Mapping web site as part of its base two-year contract. The site includes an information portal, speed test application, community anchor institution application, and an interactive mapping application.

This portal and the applications will be improved, maintained, and enhanced on an annual basis by of Vendor through the additional 3 years of the program. Some of the enhancements that have already been envisioned include:

- Provide sorting options of provider data presented after an address search is performed

- Provide public, private, state feedback loops within application environment

- Provide enhanced data layer mapping, queries, and reporting

- Incorporate address data into application search and reporting

- Create executive dashboard for summary statistics

- Other enhancements as identified by end user feedback

Vendor will make the public Interactive Portal compliant with the Safari browser for Mac Users as a growing number of users in the state use Apple Products.

First Proposal – Data Collection and Related Activities (continued)

Address File Development

Within the scope of the project for Year 1 and 2, the State of Connecticut is collecting and standardizing all digital parcel data that is available in the state for use in geocoding. This is the foundation of the base map for the state's broadband mapping program. The State of Connecticut does not have any counties and local government activities are managed on a municipal basis. There are still areas of the state, the rural areas of the state, which do not have digital parcels. The Vendor will collect assessors' tax maps for these municipalities and automate the remaining parcels in the state.

The State of Connecticut Department of Emergency Management and Homeland Security (DEMHS) has created a system which includes a geocoding service which incorporates various reference datasets such as local parcel or street data (that where available at the time the geocoding service was created), TeleAtlas street centerline data and StreetMap 1000 data from ESRI. By using only parcel data and census data, Vendor is getting really low geocoding rates with as little as 40% matches on some provider datasets. Therefore, Vendor is using the DEMHS geocoder where necessary. However, the DEMHS geocoder also falls short in the municipalities mentioned above that do not have good quality parcel data. Furthermore, the spatial accuracy of the points are not very good for larger parcels and for those that geocode to the TeleAtlas or street centerline data. Using additional funding Vendor will undertake the following:

Vendor will incorporate the additional parcel data into the DEMHS geocoder – this will involve standardization and automated clean-up on the addresses with new parcel data developed.

Vendor will complete parcels in the municipalities that do not have parcel data.

Vendor will acquire building point data through a public private partnership with AT&T.

For the locations where AT&T data does not exist state, Vendor will improve the spatial accuracy of the address point location derived from parcel centroid for large size parcels using automated techniques using various assumptions:

Vendor assumes that buildings are closer to the road and a better location can be created by using a map overlay function of the parcel with a specified road buffer and then using the centroid of the common area created by the intersection. The size specification for "large parcel" and the appropriate road buffer distance will be determined in discussion with the State of Connecticut.

Once completed, the addresses for the rural municipalities and better spatial locations for the larger parcels statewide, will then be incorporated back into the DEMHS geocoder.

Leading Practices

A number of leading practices have been identified in the grant guidance document that Connecticut feels can benefit the program in this area if implemented. Each is briefly described below:

- Address Level Collection: Collection of data at a street segment level has proven to be an easy process to perform, but the quality of the data received has proven to be a challenge. In year three or earlier the Vendor will collect data in census blocks that are greater than two square miles at an address level as opposed to the

current street segment level pending provider participation. This change will require changes to many of the data sharing agreements signed with providers.

- Speed Geography: To date speed data has been provided to us in a number of various geographies; CMA, CBSA, county, etc which has caused some problems with aggregating and then averaging the data. In year two our Vendor will begin requesting speed data from providers by the same feature type as the rest of the data (census block & address).
- Resellers: As part of the current process one of the first steps was to determine whether or not a provider is a reseller. Providers of broadband who are pure resellers were not included in the project. Starting in year 2 our Vendor will include resellers which will require new contacts to be made and logged, new NDAs to be put in place, changes to the data models and processing scripts, additional verification and changes to the web applications built for the project.
- Free Public WiFi: Another leading practice that has been identified is to incorporate free public WiFi locations into the project. This will be accomplished by building an API that allows the entities making the service available to register their facilities and maintain the data about their facilities similar to the Community Anchor Institution application we have available.
- Data Confidence Scale: Connecticut's Vendor will begin implementing a data confidence scale to all data collected as part of year two of our data verification/validation methodology.
- Provider/public feedback loop: Our Vendor will work with a focus group of the providers in Connecticut to develop a provide/public feedback loop whereby the public can provide feedback to the provider in the information portal and interactive mapping application and the provider will be able to track and correspond with the public through the use of the provider portal and social networking technologies.

Detailed Description Of Each Proposed Project

Second Proposal = State Broadband Capacity Building

NAME: Project name and one sentence description.

- State Broadband Capacity Building :
 - The creation of a position and office dedicated to the ARRA broadband grant program:
“Broadband Policy and Programs Coordinator, State ARRA Broadband Stimulus Office”
- Granting of authority for this position and federal grant funding will help with enhancing communication for industry providers, non-profits, or municipal local groups as being the single entity to contact or interact with to accomplish the state’s public policy goals and implement these funded activities, such as developing state plans to support broadband and IT growth and adoption-gathering of data to benchmark success over time, and convening statewide or regional events to disseminate technical information.

FUNDS AWARDED: Amount that has already been awarded by the Program Office for this project, or for activities that are part of this project.

- There has been no funding of a single point of contact nor an office representing Connecticut, however a number of state employees are engaged in the 1st Grant mapping/planning activities, two of them essentially working fulltime on these projects. All state employees so engaged continue to be fully funded by the state or by public utility ratepayers through the regulatory process.

FUNDS REQUESTED: Level of funding requested from the SBDD Grant Program for this project

- Total grant funding (yrs. 3-5)= \$ 125,000. (Salary = \$104,436; Other = \$20,564)
- This will fund an existing fulltime state employee for one quarter of the existing salary for 4 years, allowing for matching by the use of public utility ratepayer funds, while establishing the position as an identifiable point of contact.

PROBLEM: The problem the project is addressing.

- The principal attorney of the Office of Consumer Counsel has been performing the duties outlined in this role and his salary and benefits (funded by public utility ratepayers) form a large part of the matching contribution for the mapping and planning projects. It has become important for the state to expressly authorize a single-point of contact for internal and external parties to access information regarding the state’s broadband expansion activities.

- As broadband services are largely the product of the convergence of telephone and cable services into a new telecommunications service, utilizing the experience and position of a consumer advocate with many years of experience in the regulation of both telephone and cable services provides the state with as experienced a person in this role as is possible to find. Additionally, as a part of the public utility regulatory arena in Connecticut, this employee enjoys established relationships with the Department of Public Utility Control (the NTIA grantee), as well as many other related state agencies, and with the regulatory employees of all telecommunications operators providing service in Connecticut.
- The grant of authority to represent the state's interests in initiating and implementing public policy positions will enhance communications with industry providers, non-profits, or municipal local groups as being the single entity to contact or interact with to accomplish the state's public policy goals and implement these funded activities.
- The state's economic condition requires federal grant funding for further expenses (e.g., travel, materials, supplies, equipment, or indirect costs) for these activities. The NTIA grant will resolve that financial issue.

SOLUTION: The proposed solution (e.g., a clear description of the project activities and proposed timeline). Awardees should note if the solution described here is part of a larger project funded through other public or private entities.

- This solution to the lack of a dedicated state representative is to be resolved through the grant of authority by the state for this duty to be managed by of an established state employee, funded via a state statutory funding mechanism imposed on regulated public utility companies operating in the state.
- By granting authority for a single-point of contact and fulltime position, the state will be assured that entities seeking advice or counsel regarding the state's activities in implementing expansion of broadband access will have easy access to such a person. The integration of the planning activities with the eventual implementation of those public policy goals will be far more efficient with a dedicated manager for the purpose.
- The state's Broadband Policy and Programs Coordinator will be the program manager of the initial planning operations already funded by the NTIA, for which a consulting contract (SOW) has been executed.

OUTCOMES AND BENEFITS: The anticipated outcomes and benefits of the project.

- Thus, the Broadband Policy and Programs Coordinator will be in a position to focus the state's effort in assuring continuity between the planning phase of the 1st Grant and the implementation phase of the 2nd Grant.
- Broadband Policy and Programs Coordinator is a voting member of the state broadband task forces (the Broadband Internet Coordinating Council). The Broadband Policy and Programs Coordinator has already begun efforts through the BICC to work with the private sector to create public-private partnerships to access infrastructure, technical expertise, training and program funding, and compete for grants required to further support improved broadband access and adoption across a state or region.

- Broadband Policy and Programs Coordinator is already managing the development of the state's strategic plans to support broadband and IT growth and adoption. This includes the completion of strategic planning based on gap analysis of availability, adoption and the existing capacity of local support organizations. It also includes gathering state and local benchmark data to determine program success over time.
- As part of compiling the research for the state's plan, the Broadband Policy and Programs Coordinator and his consultant will convene statewide or regional events intended to disseminate technical information about broadband availability data collection and the results of research conducted, and to further improve understanding of and opportunities to enhance broadband within a state.
- The Broadband Policy and Programs Coordinator strongly believes that a sharp focus for this state is for inter-agency coordinating activities at the state level, supporting intra-governmental activities across the state, including development of streamlined permitting processes, coordination of local government officials leading broadband access and adoption efforts, and support of sector-specific (education, health, etc.) coordination efforts.

COST: The cost of the proposal in light of the previous factors (e.g., a justification of the reasonableness and cost-efficiency of the project)

- The state's plan to utilize the services of an established state employee, currently functioning as a statutorily-authorized public utility consumer advocate and funded via a state statutory funding mechanism imposed on regulated public utility companies operating in the state, will provide great cost-efficiency of the project.
- The activities of the state's Broadband Policy and Programs Coordinator will also serve to help meet the state's matching obligations to the NTIA since a high percentage of this state employee's time will be devoted to this service. The NTIA grant funding will aid the Broadband Policy and Programs Coordinator to meet expenses that are presently lacking funding, including travel to participate in national organizational panel opportunities, as well as materials, supplies, equipment, or indirect costs not otherwise covered by state funds.

SBDD PURPOSE: The SBDD-related purpose that the project addresses and an explanation of how the project relates to that purpose

- Since the Broadband Policy and Programs Coordinator will be involved in both the mapping and planning projects funded by the NTIA grants, to varying degrees the Coordinator will help the state of Connecticut achieve success in all aspects of these vital public policy goals, but of course particularly in the development of state plans to support broadband and IT growth and adoption-gathering of data to benchmark success over time, and to convene statewide or regional events to disseminate technical information
- The introduction of a single point of contact for internal and external entities participating in the NTIA grant mapping and planning projects will enhance the state's ability to develop and provide baseline assessment of broadband deployment in Connecticut.

- Further, though coordinating the mapping and planning functions, the state will be better able to identify and track the areas with low levels of deployment, the rate at which residential and business users adopt broadband service and other related information technology services, and possible suppliers of such services in order to establish and enhance computer ownership and Internet across the state.
- The activities of the Coordinator as a representative of the state will certainly help in the creation and facilitation of local technology planning teams, and in the development of collaborative efforts with broadband service providers and information technology companies to encourage deployment and use of computers and broadband services.

Detailed Description Of Each Proposed Project

Third Proposal – Technical Assistance

NAME: Project name and one sentence description

Technical Assistance

- Connecticut intends to provide “technical assistance” to local groups, non-profit groups, or industry providers in terms of technology strategy development, train-the-trainer activities, and sustainability planning, which will be accomplished through the use of the data developed in the mapping project, enhanced by expert analysis in the public policy strategic plan for enhancing broadband usage and ultimately implemented through this aspect of the state’s plan.

FUNDS AWARDED: Amount that has already been awarded by the Program Office for this project, or for activities that are part of this project.

- There has been no funding made for this project.
- The first phase of the Strategic Plan is intended by the state to use statewide initiatives to collect and analyze detailed market data concerning use and demand for broadband service in order to identify implementation methods to remove barriers to the adoption of broadband service and information technology services, particularly by the creation of local technology planning teams by designated regions within the state in collaboration with broadband service providers and information technology companies.
- In sum, the state will utilize findings established by the state’s Strategic Plan to develop the foundation and relevant entities needed to take public policy goals and advance them to implementation projects that will bring the reality of computer use and broadband services to the widest number of Connecticut residents and businesses as possible.

FUNDS REQUESTED: Level of funding requested from the SBDD Grant Program for this project.

- \$1,000,000

PROBLEM: The problem the project is addressing.

- It is imperative that the state discover and encourage entities that are capable of providing technical assistance of all kinds to local groups, non-profit groups, or industry providers in terms of technology strategy development, train-the-trainer activities, and sustainability planning.
- The state is here attempting to focus on leveraging its core competencies and its ability to convene, support, coordinate and enhance programs that provide digital literacy training and access to broadband and related equipment.

- The state fully intends to rectify existing lack of access to or use of existing broadband services by the use of its mapping project data and Strategic Plan to benchmark technology use across relevant community sectors, set goals for improved technology use within each sector; and finally develop a plan for achieving its goals, with specific recommendations for web-based application development and demand creation.

SOLUTION: The proposed solution (e.g., a clear description of the project activities and proposed timeline). Awardees should note if the solution described here is part of a larger project funded through other public or private entities.

- The state is keenly aware that there exists a lack of PC centers in Connecticut in certain identifiable regions and community groups, and it is the state's intention that the funds provided in this program area will support or establish programs designed to improve computer ownership and Internet usage. While Connecticut has a high percentage of broadband infrastructure penetration and therefore does not need a massive program to create new infrastructure, it desperately needs funding to rapidly enhance digital literacy and access to computer equipment in large segments of its population, much of which is low income or otherwise deprived of access to broadband services.
- While groups already exist in Connecticut working on expanding broadband usage, the Strategic Plan will identify and categorize these groups as to region and specialties, and this phase of the project will begin the implementation activities, such as providing sub-grant opportunities to well-established local community groups, in order promote the activities of existing volunteer and non-profit programs that can provide digital literacy and small business broadband training.

OUTCOMES AND BENEFITS: The anticipated outcomes and benefits of the project

- The NTIA grant opportunities will allow the state to provide technical expertise to local institutions already engaged in providing digital literacy and small business broadband training across the state, generally on a very local level.
- The state would like to provide such groups with the prospect through carefully-targeted sub-grants to existing groups with specialties in these areas of expanding their operations, within their home districts, but perhaps to be able to reach further afield and bring their expertise to new areas of need.
- Concurrent with these projects will be the centralization of management by the state in order to best avoid duplication of effort and maximize the benefits to be derived from the NTIA grant funding.
- Through the identification of needs and opportunities to result from the state's Strategic Plan, the state intends to benchmark technology use across relevant community sectors, set goals for improved technology use, develop a plan to achieve the goals, and develop specific recommendations for web-based application development.
- The state's primary goal in this proposal is the creation of local/regional planning teams, task forces, or advisory boards to help the state coordinate its outreach activities to the most local levels possible to create programs to improve computer ownership and internet usage.

COST: The cost of the proposal in light of the previous factors (e.g., a justification of the reasonableness and cost-efficiency of the project)

- By locating and facilitating local technology planning teams with expertise in technology assistance as quickly as possible (through the rapid deployment of its consultants in the Strategic Plan), the state will develop collaborative efforts with broadband service providers and information technology companies to encourage deployment and use of computers and broadband services, with a focus on identifying and increasing the rate at which residential and business users adopt broadband service and other related information technology services.
- While the Strategic Plan is intended to uncover such entities, this phase of the grant program will be devoted to providing funding and development public/private partnerships with such entities in order to best facilitate the reach of broadband into areas and community groups (e.g., elderly, rural, minorities) that lack digital literacy or opportunity to possess and use computers to utilize broadband services.
- The state will accordingly propose to develop partnerships, particularly with those organizations that have significant past experience providing technical assistance, an effort that will require coordination with long-standing volunteer and non-profit programs that provide digital literacy and small business broadband training. The state would expect to utilize NRIA grant funding to support the efforts of local groups, hopefully in conjunction with existing programs funded by Internet service providers through public/private partnerships.

SBDD PURPOSE: The SBDD-related purpose that the project addresses and an explanation of how the project relates to that purpose.

- The state of Connecticut intends to achieve success in all aspects of the vital public policy goals identified by the NTIA and the FCC in its National Broadband Plan, and to be further refined on the state level by the Strategic Plan, but of course particularly in the development of state plans to support broadband and IT growth and adoption-gathering of data to benchmark success over time, and to convene statewide or regional events to disseminate technical information
- The state fully intends to develop systems, commencing with its appointment of a Broadband Policy and Programs Coordinator, that will best identify and utilize the performance of both internal and external entities to enhance the state's ability to develop and provide baseline assessment of broadband deployment in Connecticut, ultimately converting that knowledge base into action by local groups to implement processes that encourage broadband service usage.
- In this way, the state will have the capacity to identify and track the specific geographic or sector divisions with low levels of deployment, and will be able to utilize the services of appropriate local entities possible suppliers in order to most efficiently establish and enhance computer ownership and Internet across the state.

Detailed Description Of Each Proposed Project

Fourth Proposal = Application Usage and Development (by state, regional and local government)

NAME: Project name and one sentence description

- **Application Usage and Development (by state, regional and local government):**
- This proposal requests funding to give action to the public policy goals developed in the Strategic Plan focused on the implementation of the state's own resources, agencies and other public entities) to encourage use by residents and business by the example of state government, as well as by enhancing the reach of government functions through broadband, thus promoting greater interaction among the government entities, as well as forming partnerships across stakeholder groups.

FUNDS AWARDED: Amount that has already been awarded by the Program Office for this project, or for activities that are part of this project

- In addition to the \$1,333,969 already granted to the state of Connecticut by the NTIA for data gathering and mapping, which will form the initial basis for research and development of a comprehensive plan for implementing processes that will enhance broadband usage in this state, the NTIA has awarded Connecticut \$499,800 to develop a Strategic Plan.
- One key element of the state's Strategic Plan will be the identification of methods the state itself can better utilize broadband services in its own operations as well as promoting use of broad services by its citizenry in relations with the state's operations.

FUNDS REQUESTED: Level of funding requested from the SBDD Grant Program for this project

- \$1,000,000

PROBLEM: The problem the project is addressing

- The state presently lacks the funding and personnel devoted to the purpose to give action to the public policy goals which will be developed in the Strategic Plan focused on the implementation of the state's own resources, agencies and other public entities) to encourage use by residents and business by the example of state government, as well as by enhancing the reach of government functions through broadband, thus promoting greater interaction among the government entities, as well as forming partnerships across stakeholder groups.
- The NTIA mapping project has sparked the proposed launch of a broadband-specific website to be maintained by the state which will display mapping data,

but also can serve to provide information regarding the issues confronting potential users of broadband services. Further, through outreach programs, the state hopes to be able to aid potential users with understanding how access to the Internet and other broadband services can help them in their lives and business affairs. This process is only just beginning in Connecticut and the NTIA funding will be vital to its success.

SOLUTION: The proposed solution (e.g., a clear description of the project activities and proposed timeline). Awardees should note if the solution described here is part of a larger project funded through other public or private entities.

- This proposal will utilize the data developed through the mapping project as well as the public policy goals and practical solutions identified in the Strategic Plan to develop the foundation needed to create technology and administrative solutions needed to implement projects that will bring the reality of computer use and broadband services to the widest number of Connecticut residents and businesses as possible.
- The state will of course be capable to a limited degree presently, but hopefully will be in a better financial position in the future to fund many of the activities proposed in this project.
- Existing state activities can be amended based on best practices and increased awareness through the data and Strategic Plans developed with the NTIA grant funding so benefits should be realized early in the grant term.
- It is anticipated that the applications developed will embrace the concept of open government and will be built upon the principles of Gov 2.0 and create platforms that enable the citizens of Connecticut to enhance and build upon the data that is exposed using data.gov methodology.
- It is also anticipated that social marketing technologies will be used to create a culture of open communication, create public, private, citizen feedback loops and improve civic participation.

OUTCOMES AND BENEFITS: The anticipated outcomes and benefits of the project

- The state's goal in this project is to enabling state government (and in time, extending benefits to the state's 169 municipalities) to accelerate broadband application development and usage in key areas of government, such as education, economic development, or transportation.
- The state intends to use the NTIA grant money and its own resources in the creation of a www.data.gov -type website for the state's activities and interactions with its partners and residents.
- The state also intends to enhance other types of Internet support for promoting broadband among residents and businesses in all aspects of their interactions with the state.
- The state expects to identify and develop enhanced mobile (e.g., iPhone and Android) support for Web mapping applications (speed test, crowd sourcing) and opportunities to introduce new users of such services, and enhance the usage of existing users.

- The state intends to encourage municipal portals to expose broadband availability data on a more local level through the community technical assistance groups, to provide demographic and economic data to citizens and businesses to promote economic development across the state through the use of broadband services.

COST: The cost of the proposal in light of the previous factors (e.g., a justification of the reasonableness and cost-efficiency of the project)

- Existing state activities can be amended based on best practices and increased awareness through the data and Strategic Plans developed with the NTIA grant funding so benefits should be realized early in the grant term.
- The state has a substantial investment in information technology services, including a highly successful and well-development Connecticut Education Network (CEN) system stretching to all corners of the state. That system has applied for BTOP funding to further extend its reach to less developed parts of the state and to increase the speed of its services.
- The FCC has recently revised its regulation to encourage the use of E-rate funded networks such as CEN beyond the original populations, a regulatory revision that will allow the state to capitalize on its existing resources quite efficiently in the provision of high-speed infrastructure to areas currently lacking that capacity.

SBDD PURPOSE: The SBDD-related purpose that the project addresses and an explanation of how the project relates to that purpose

- The state of Connecticut intends to achieve success in all aspects of the vital public policy goals identified by the NTIA and the FCC in its National Broadband Plan, and to be further refined on the state level by the Strategic Plan, but of course particularly in the development of its own plans to support broadband and IT growth through enhancing its interactions with its residents, businesses, and other entities with which it works and provides services.
- The state fully intends to develop systems that build on its existing infrastructure and resources to best identify and utilize the performance of both internal and external entities to enhance the state's ability to deliver information and services.
- By a steady and deliberate conversion of its existing methods of operating, including upgrades to its infrastructure that it will finance on its own, the state will be able to utilize its increased knowledge base into action by local groups to implement processes that encourage broadband service usage.
- Through the resource encouragement allowed it by the NTIA grant funding, the state of Connecticut will have the opportunity to successfully locate and facilitate local technology planning teams with expertise in technology assistance as quickly as possible.
- The increased use of broadband services by the state itself will encourage the development of collaborative efforts with public/private partnerships with broadband service providers and information technology companies to encourage deployment and use of computers and broadband services.
- The increased use of broadband services by the state itself will help it to focus on identifying and increasing the rate at which residential and business users adopt broadband service and other related information technology services.

- Further by this increased interaction by the state with its various partners and residents, the state will have the capacity to identify and track the specific geographic or sector divisions with low levels of deployment, and will be able to utilize the services of appropriate local entities possible suppliers in order to most efficiently establish and enhance computer ownership and Internet across the state.

Description of how the proposed projects fit into state's comprehensive approach toward leadership in a digital economy

The proposals made to the NTIA for grant funding in this 2nd Application each represents the most logical next step to best benefit and enhance the state's comprehensive approach toward leadership in a digital economy. While the state will eventually complete all aspects of the State's Plan, the funding opportunity offered by the federal government through the NTIA grants will jumpstart many aspects of the state's public policy goals regarding broadband usage by its residents and businesses.

The State believes and, through the actual allocation of resources, has demonstrated its commitment to broadband expansion, that what was once "good enough" eventually becomes substandard, and what was once a "luxury" becomes the new standard. This pattern is not to be feared or suppressed, but in fact forms the core belief in the State's Plan. Citizens in colonial Connecticut probably did not give much thought to the source of their drinking water or how they disposed of wastes, but now these details of daily life are taken for granted, as they assuredly must be. When the telephone was first invented, it was seen by many as a toy or extravagance, but by the 1930s it became public policy to extend voice service to all Americans. Connecticut remains proud of its heritage in the history of the telephone, being the site of the first switch and the first phone number directory. Likewise, in the 1960s, computers were used only by governments, university researchers and very large companies, while today personal computers are a vital center of learning, conducting business, and communicating in millions of households and businesses.

Similarly, the State's Plan regards broadband as now being a basic utility, indispensable to each citizen and business in Connecticut. The State thus believes that it must focus a wide variety of its resources on ways to encourage or require the owners and providers of broadband, public and private, to extend service in an economically feasible manner to everyone in both rural and inner city areas to ensure that no citizen is left behind. To this end, the State intends to focus on both the last- and middle-mile infrastructure, through public safety, education, and health service provisioning, just to name a few, to most efficiently eliminate bottlenecks in both unserved and underserved areas. Whatever the difficulties that might be encountered in extending the reach of broadband to all areas of the country, such obstacle must not be allowed to diminish the State's Plan in placing this goal as paramount to the needs of its citizens.

The State's Plan expressly takes into account the positive externalities associated with increased broadband subscribership, and will not tolerate any excuse for delay in bringing the benefits of broadband to all citizens, particularly those who are hardest to reach and who are least able to avail themselves of broadband.

All of the agencies and their affiliates involved in this application process, along with the Governor's office and other state agencies, have a long history of cooperating among themselves to develop synergies in order to prioritize resources to more efficiently and effectively utilize market, business, and technical assets to the benefit of the public and the State itself. The process that has been developed in Connecticut favoring collaboration with a broad range of other state or federal development programs that leverage outside resources in order to maximize

the impact of the proposed project reflects a state policy of addressing more than one statutory purpose and project category.

It is with this policy in mind that the State can readily attest to the fact that this application and applicant have the organizational capability necessary to promptly start these projects and assure the grantors that each will be completed in an appropriate timeframe for the size and scope of the project, pursuant to well-articulated time and budget milestones. This ability to undertake and complete the projects of course includes the State's pledge regarding the long-term sustainability of each. It should be apparent that linkages to unaffiliated organizations in the project area, including public, nonprofit, and private entities, as well as community anchor institutions and public safety organizations, will continue to be an ongoing and integral part of the project planning and operation, to be fully sustained beyond the funding period.

Further, for example, there is a compelling need for state action to jumpstart the "demand-side focus" of the State's Plan, including steps to increase computer penetration and computer literacy. It will also be imperative to include municipalities as key players in the effort to more fully deploy broadband service throughout the State.

The identification of communities that unduly suffer from barriers to the adoption of broadband service and information technology services, which further use of State agencies in collaboration with private entities, such as broadband service providers and information technology companies, can successfully encourage deployment and use by the public. Through the use of academic and other State resources, including collaboration with private providers operating in the field, the State proposes to collect and analyze data derived from examination of market conditions concerning the use and demand for broadband service on a variety of levels throughout the State's regions and populations. Use of this data will provide the foundation for resolving this problem.

For instance, with regarding to broadband mapping, the State Plan develops a workable and sustainable framework for repeated updating of data across the next five years, a challenge that squarely meets with the State's own public policy goals for sustainability and continued meeting of the demands for broadband that its citizens have voiced. The State has excellent groups of employees involved in developing cutting-edge maps for a wide variety of purposes for a broad base of agencies and public policy goals, and the Recovery Act opportunity provides a moment to create a mapping database and presentation resource that is truly helpful in planning and implementing the State's future broadband initiatives. While the State has the capacity to create vital and comprehensive maps with the funding infusion proposed under the Recovery Act, the value of a concerted mapping effort will lie in the details of the data—and in the ability to relate the underlying data to the policy and program issues described in the State's broadband plan .

Appendices (attached as separate digital files):

- 1. (Budget Spreadsheet – summary, request (fed), budget (match), contracts budget-
= attached as a separate Excel spreadsheet)**
- 2. Budget Narrative Spreadsheet = attached as a separate Excel spreadsheet)**
- 3. Standard Form 424**
 - i. See attached form.
- 4. Standard Form 424A**
 - i. See attached form.
- 5. Standard Form 424B**
 - i. See attached form.
- 6. Man-Hour Breakdown - Data Collection, Integration, Verification and Display**
 - i. Appended to this Application is a man-hour breakdown for the years 3 to 5 program.
- 7. Evidence of support –documents from state, local communities and other beneficiaries of NTIA grant funding**
 - i. See attached letters.

Application budget_narrative Final 070110

Personnel	Broadband Policy & Programs Coordinator: Will fund .5 FTE for to help with enhancing communication for industry providers, non-profits, or municipal local groups as being the single entity to contact or interact with to accomplish the state's public policy goals. federal funds will support .25 FTE with State funds funding the other .25 FTE	\$104,433	\$104,433	\$208,866
Fringe Benefits	Fringe benefit calculated at 58% of \$104,433 for .25 FTE salary of coordinator position		\$60,571	\$60,571
Equipment	Funds will be used to purchase server hardware and associated software to support the state Application Usage and Development proposal. As the exact scope has not been fully developed this is an estimated cost based on other IT projects of similar size that the state has undertaken		\$50,000	\$50,000
Subcontracts	Contractor for data collection, analysis: Costs associated with this task are based on the current rate in negotiated between the state and it's current vendor for work under the scope of woprk approved by the NTIA. This will support the ongoing data collection, maintenance, update, and display activities.	\$1,578,597		\$1,578,597
	Address File: Within the scope of the project for Year 1 and 2, the State of Connecticut is collecting and standardizing all digital parcel data that is available in the state for use in geocoding. This is the foundation of the base map for the state's broadband mapping program. There are still areas of the state, the rural areas of the state, which do not have digital parcels. The State's Vendor will collect assessors' tax maps for these municipalities and automate the remaining parcels in the state	\$487,749		\$487,749
	Future Leading Practices: Leading Practices A number of leading practices have been identified in the grant guidance document that Connecticut feels can benefit the program in this area if implemented. <ul style="list-style-type: none"> • Address Level Collection: • Speed Geography: • Resellers: • Free Public WiFi: • Data Confidence Scale • Provider/public feedback loop: Costs associated with these tasks are based on existing rates agreed upon by the current vedor and the State	\$341,585		\$341,585
	Technical Assistance: Connecticut intends to provide "technical assistance" to local groups, non-profit groups, or industry providers in terms of technology strategy development, train-the-trainer activities, and sustainability planning, which will be accomplished through the use of the data developed in the mapping project, enhanced by expert analysis in the public policy strategic plan for enhancing broadband usage and ultimately implemented through this aspect of the state's plan. Connecticut intends to issue a request for proposal or similar competitive grant oppotunity for groups to pursue in accordance with the requirements of the SBDD program	\$1,000,000		\$1,000,000
	Application Usage and Development: The state intends to use the NTIA grant money and its own resources in the creation of a www.data.gov type website for the state's activities and interactions with its partners and residents. In addition the state also intends to enhance other types of Internet support for promoting broadband among residents and businesses in all aspects of their interactions with the state.	\$850,000		\$850,000
Other	Miscellaneous expesnes realted to capacity building coordinator position	\$20,564		\$20,564
	Data Licensing (Data collection and analysis): These costs are based on the expenditures which the state has and will be making for various data that are used as part of the SBDD program, including roadnetowrk data and parcel data		\$800,000	\$800,000
	Technical Assistance (matching): The state intends to utilize a competitive program to award grant funds for techincal assistance program. The state will require that applicants contribute a minimum of 20% match in services, cash, or equipment. The state will give preference to not-for-profit groups that are able to leverage industry partnerships		\$200,000	\$200,000
	Data Investments (Application Development & Usage): The state inteneds to utilize data and services which it currently funds on an ongoin basis to support activities in the Application Development and Usage category		\$200,000	\$200,000
TOTAL		\$4,382,928	\$1,415,004	\$5,797,932

Personnel	Broadband Policy & Programs Coordinator: Will fund .5 FTE for to help with enhancing communication for industry providers, non-profits, or municipal local groups as being the single entity to contact or interact with to accomplish the state's public policy goals. federal funds will support .25 FTE with State funds funding the other .25 FTE	\$104,433	\$104,433	\$208,866
Fringe Benefits	Fringe benefit calculated at 58% of \$104,433 for .25 FTE salary of coordinator position		\$60,571	\$60,571
Equipment	Funds will be used to purchase server hardware and associated software to support the state Application Usage and Development proposal. As the exact scope has not been fully developed this is an estimated cost based on other IT projects of similar size that the state has undertaken		\$50,000	\$50,000
Subcontracts	Contractor for data collection, analysis: Costs associated with this task are based on the current rate in negotiated between the state and it's current vendor for work under the scope of work approved by the NTIA. This will support the ongoing data collection, maintenance, update, and display activities.	\$1,578,597		\$1,578,597
	Address File: Within the scope of the project for Year 1 and 2, the State of Connecticut is collecting and standardizing all digital parcel data that is available in the state for use in geocoding. This is the foundation of the base map for the state's broadband mapping program. There are still areas of the state, the rural areas of the state, which do not have digital parcels. The State's Vendor will collect assessors' tax maps for these municipalities and automate the remaining parcels in the state	\$487,749		\$487,749
	Future Leading Practices: Leading Practices A number of leading practices have been identified in the grant guidance document that Connecticut feels can benefit the program in this area if implemented. <ul style="list-style-type: none"> • Address Level Collection: • Speed Geography: • Resellers: • Free Public WiFi: • Data Confidence Scale • Provider/public feedback loop: Costs associated with these tasks are based on existing rates agreed upon by the current vendor and the State	\$341,585		\$341,585
	Technical Assistance: Connecticut intends to provide "technical assistance" to local groups, non-profit groups, or industry providers in terms of technology strategy development, train-the-trainer activities, and sustainability planning, which will be accomplished through the use of the data developed in the mapping project, enhanced by expert analysis in the public policy strategic plan for enhancing broadband usage and ultimately implemented through this aspect of the state's plan. Connecticut intends to issue a request for proposal or similar competitive grant opportunity for groups to pursue in accordance with the requirements of the SBDD program	\$1,000,000		\$1,000,000
	Application Usage and Development: The state intends to use the NTIA grant money and its own resources in the creation of a www.data.gov type website for the state's activities and interactions with its partners and residents. In addition the state also intends to enhance other types of Internet support for promoting broadband among residents and businesses in all aspects of their interactions with the state.	\$850,000		\$850,000
Other	Miscellaneous expenses related to capacity building coordinator position	\$20,564		\$20,564

Application budget_narrative Final 070110.xlsx

	Data Licensing (Data collection and analysis): These costs are based on the expenditures which the state has and will be making for various data that are used as part of the SBDD program, including roadnetowrk data and parcel data		\$800,000	\$800,000
	Technical Assistance (matching): The state intends to utilize a competitive program to award grant funds for techincal assistance program. The state will require that applicants contribute a minimum of 20% match in services, cash, or equipment. The state will give preference to not-for-profit groups that are able to leverage industry partnerships		\$200,000	\$200,000
	Data Investments (Application Development & Usage): The state inteneds to utilize data and services which it currently funds on an ongoin basis to support activities in the Application Development and Usage category		\$200,000	\$200,000
TOTAL			\$4,382,928	\$1,415,004
				\$5,797,932

(CT) DEPARTMENT OF PUBLIC UTILITY CONTROL

Enclosure: Enclosed are the proposed rates for the public utility companies for the rate year 2008. The proposed rates are for the year 2008.

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Category	2007	2008	Total
Administrative Expenses		\$60,804	\$60,804
Energy Management		\$35,266	\$35,266
Travel			\$0
Equipment			\$0
Supplies			\$0
Salaries and Wages	\$1,824,000		\$1,824,000
			\$0
Other	\$9,769	\$340,483	\$350,252
Operating Expenses	\$1,833,769	\$436,553	\$2,270,322
Interest Expense	\$0	\$21,889	\$21,889
Depreciation	\$1,833,769	\$458,442	\$2,292,211
Amortization			
Adjustment			

Enclosure: Enclosed are the proposed rates for the public utility companies for the rate year 2008. The proposed rates are for the year 2008.

Category	2007	2008	Total
Administrative Expenses		\$60,804	\$60,804
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Travel			\$0
Equipment			\$0
Supplies			\$0
Salaries and Wages	\$1,824,000		\$1,824,000
			\$0
Other	\$9,769	\$340,483	\$350,252
Operating Expenses	\$1,833,769	\$436,553	\$2,270,322
Interest Expense	\$0	\$21,889	\$21,889
Depreciation	\$1,833,769	\$458,442	\$2,292,211
Amortization			
Adjustment			

ARRA Broadband Coordinator Position (Capacity building)	26,106	26,109	26,109	26,109
	0	0	0	0
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Servers & software for Application Usage and Development		50,000		
Contractor for data collection, analysis		526,199	526,199	526,199
Address File		487,749	0	0
Future Leading Practices		341,585	0	0
Technical Assistance		500,000	500,000	0
Application Usage and Development		425,000	425,000	
Miscellaneous expenses related to capacity building position	5,141	5,141	5,141	5,141
	0	0	0	0
	0	0	0	0
	3124.7	236178.3	148244.9	55744.9

ARRA Broadband Coordinator (10 hrs per week)	26,106	26,109	26,109	26,109	\$104,433
	0	0	0	0	\$0
	0	0	0	0	\$0
ARRA Broadband Coordinator @ 58% of salary	15,141	15,143	15,143	15,143	\$60,571
	0	0	0	0	\$0
	0	0	0	0	\$0
	0	0	0	0	\$0
	0	0	0	0	\$0
	0	0	0	0	\$0
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Data Licensing (Data collection and analysis)	200,000	200,000	200,000	200,000	\$800,000
Technical Assistance matching	0	100,000	100,000	0	\$200,000
Data Investments (Application Development & Usage)	0	100,000	100,000	0	\$200,000
	0	0	0	0	\$0
	0	0	0	0	\$0
	0	0	0	0	\$0

Task Description	Program Manager	Project Manager	Developer/DBA	Senior Analyst	Junior Analyst	Technician	Total Hours	Expenses	Subtotal
	\$ 184	\$ 158	\$ 131	\$ 158	\$ 105	\$ 78			Cost
Project Management									
Revise Project Work Plan development and update	57	227	130	100	0	0	284		\$ 46,140
Weekly status conference calls, onsite meetings and meeting minutes	161	323	130	130	0	0	464	7,000	\$ 87,423
Monthly progress reports	38	191	0	0	0	0	227		\$ 36,866
Project management (contract, staff and financial management)	258	120	0	0	0	0	378		\$ 66,308
Subtotal	512	860	0	0	0	0	1372	7,000	236,537
Process changes due to change in program									
Project and technical meetings with providers/communities/trade associations	72	83	0	0	0	0	155	5,500	\$ 31,771
Update/maintain list of providers, contact logger maint. and update	0	276	96	30	0	0	372		\$ 58,070
Modify data request based on database changes and technical data delivery methods to reflect program changes	369	138	77	0	0	0	268		\$ 44,394
Contact new providers to request NDA/data	0	173	0	0	0	1052	1224		\$ 109,990
Convert data to Census 2010 reference files	0	344	53	27	33	47	203		\$ 25,178
Establish new NDA's with new providers and update existing (lawyers and paralegals)	50	165	0	0	0	58	273		\$ 39,776
Subtotal	191	878	226	27	33	1157	2511	5,500	307,179
Repeated Broadband Data Preparation and Processing									
Initial profiling and loading of raw data from provider	0	0	0	31	139	0	469		\$ 43,023
Data processing of provider data	0	60	0	0	0	1200	1260		\$ 103,950
Geoprocessing of provider customer data	0	0	0	0	0	1402	1402		\$ 110,428
Data processing of community anchor institution data	0	24	0	0	0	240	252		\$ 20,790
Create NTIA export file (6 deliveries)	0	112	0	160	0	0	184		\$ 28,980
Subtotal	0	96	0	191	139	3142	3568		307,171
Analysis and Static Map Creation									
Socioeconomic, demographic data update, analysis and static map creation	0	96	0	64	0	0	640		\$ 63,000
Produce draft and final maps for each county & statewide	0	96	0	64	0	0	480		\$ 63,000
Subtotal	0	192	0	128	0	960	1280		126,000
NTIA Reporting									
Provide support for NTIA submission	48	144	0	0	0	0	192		\$ 31,500
Provide support for NTIA quarterly reports	32	48	0	0	0	0	80		\$ 13,440
Prepare data analysis report for NTIA	0	151	0	0	0	0	151		\$ 23,814
Subtotal	80	343	0	0	0	0	423		68,754
Verification & Validation									
Wireline verification	48	170	0	0	0	0	491	539	\$ 47,525
Wireless verification	0	100	0	0	0	180	280	172,500	\$ 202,425
FCC Speed Test Incorporation	35	0	93	0	0	0	351	478	\$ 48,126
Subtotal	83	100	93	0	0	1021	1297	172,500	296,076
Web Applications									
Maintenance of web applications	0	44	720	0	0	0	764		\$ 117,180
Hosting of web applications	0	0	0	0	0	0	0		\$ 0
Enhancements to web applications	24	48	504	0	0	0	600		\$ 80,010
Additional browser support (Safari)	0	48	240	0	0	0	296		\$ 39,690
Subtotal	24	240	1464	0	0	0	1760		236,880
Parcel collection and standardization									
Subtotal Years 3 to 5 Data Collection, Integration, Validation, Display	890	2709	1782	345	172	4312	12211	185,000	1,578,597
Address Data Modifications									
Modify Internal data models for address point inclusion	0	32	48	0	0	0	80		\$ 11,340
Modify existing ETL processes for address points	0	10	32	67	0	0	109		\$ 16,275
Modify NTIA export routines for addressing data	0	124	119	0	0	0	34		\$ 4,830
Complete parcels for remainder of rural areas of state	200	522	60	128	0	3228	4138		\$ 401,223
Clean addresses in parcel layer in rural areas of state	0	57	48	225	0	0	330		\$ 50,720
Create new reference file from parcel data	0	0	0	21	0	0	21		\$ 3,360
Subtotal	200	625	207	452	0	3228	4712		487,749

CONNECTICUT STATE LIBRARY



KENDALL F. WIGGIN
State Librarian

July 1, 2010

Lawrence E. Strickling
Assistant Secretary for Communications & Information and
Administrator, National Telecommunications and
Information Administration
U.S. Department of Commerce / NTIA
Herbert C. Hoover Building (HCHB)
1401 Constitution Avenue, N.W.
Washington, D.C. 20230

Dear Assistant Secretary Strickling:

On behalf of the Connecticut State Library, I am writing to support the state of Connecticut's pending application to the National Telecommunications and Information Administration ("NTIA") for the recently announced expanded grant opportunity in the NTIA's State Broadband Data and Development Grant Program ("SBDD").

In addition to the state and national broadband goals the DPUC's participation in the SBDD program has served, there are benefits to the State Library and the public, school, and academic libraries throughout the state from NTIA grant funding for the state to develop a Strategic Plan for statewide initiatives to collect and analyze detailed market data concerning use and demand for broadband service in order to identify implementation methods to remove barriers to the adoption of broadband service and information technology services.

We are particularly interested in the Plan's goal of creating local technology planning teams by designated regions within the state in collaboration with broadband service providers and information technology companies. Most libraries in the state do not have the expertise to effectively do this on their own. The state plans to identify parties already existing in the state to develop public/private partnerships to promote digital literacy and providing opportunities for various groups to gain or enhance access to broadband services. Digital literacy is a role that we are encouraging libraries to take on and the partnerships that will be developed as part of this grant will go a long way to furthering the library's and community's capacity to address the very real issue of digital literacy.

Thank you for your attention and consideration of the state's application.

Sincerely,

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Kendall F. Wiggin

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Town of Manchester

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www.ci.manchester.ct.us

LOUIS A. SPADACCINI, MAYOR
LEO V. DIANA, DEPUTY MAYOR
LISA P. O'NEILL, SECRETARY

DIRECTORS
RUDY C. KISSMANN
JAY MORAN
MATTHEW B. PEAK
CHERI A. PELLETIER
MARK D. TWEEDIE
KEYVIN L. ZINGLER

SCOTT SHANLEY, GENERAL MANAGER

June 25, 2010

Lawrence E. Strickling
Assistant Secretary for Communications & Information
Administrator, National Telecommunications and
Information Administration
U.S. Department of Commerce

Dear Assistant Secretary Strickling:

The Town of Manchester, in the National League of Cities "Digital Cities Survey", places technically in the top 10 nationally for our size cities (50,000 to 70,000). The Manchester Information Systems department, over which I am the CIO, uses a GIS layer containing Utility Poles over which our city-wide fiber optic network connects all municipal and school district buildings. This pole layer is important to managing this broadband network.

The established value of the GIS Network Layer in our municipality is a basis for our advocating this be developed for the rest of our state to encourage Broadband development and deployment. I am writing to support the Connecticut Department of Public Utility Control's ("DPUC") pending application to the National Telecommunications and Information Administration ("NTIA") for the recently announced expanded grant opportunity in the NTIA's State Broadband Data and Development Grant Program ("SBDD"). In addition to the state and national broadband goals that the DPUC's participation in the SBDD program has served, there are established short term budgetary benefits in this difficult economy to Manchester from the program's data collection and verification program. This improved collection would further the cause of interconnecting municipalities for technology services sharing over broadband by giving municipalities a complete picture of the paths to accomplish this connectivity.

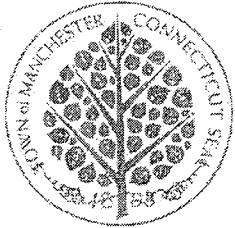
The ability to access updated data for five years rather than just two and the possible completion of parcel information for the remainder of the state will not only prove invaluable to our city but will assist us in integrating information with other agencies and municipalities in mutual programs.

Thank you for your attention and consideration of the DPUC's application.

Sincerely,

Jack McCoy
Chief Information Officer (CIO)
Town of Manchester
494 Main Street,
Manchester, Connecticut 06040
Office Phone 860 647 3072





Town of Manchester

41 Center Street • P.O. Box 191
Manchester, Connecticut 06045-0191
www.ci.manchester.ct.us

LOUIS A. SPADACCINI, MAYOR
LEO V. DIANA, DEPUTY MAYOR
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SCOTT SHANLEY, GENERAL MANAGER

July 1, 2010

Lawrence E. Strickling
Assistant Secretary for Communications & Information and
Administrator, National Telecommunications and Information Administration
U.S. Department of Commerce / NTIA
Herbert C. Hoover Building (HCHB)
1401 Constitution Avenue, N.W.
Washington, D.C. 20230

Dear Assistant Secretary Strickling:

As the Chairman of the Capital Region Council of Government (CRCOG) Shared Technology Committee and General Manager of the Town of Manchester, Connecticut, I am writing to support the State of Connecticut's pending application to the National Telecommunications and Information Administration ("NTIA") for the recently announced expanded grant opportunity in the NTIA's State Broadband Data and Development Grant Program ("SBDD").

In addition to the state and national broadband goals that the DPUC's participation in the SBDD program has served, there are benefits to the region (CRCOG) and to The Town of Manchester from NTIA grant funding. Both individual citizens and governmental services will benefit should the State develop a Strategic Plan for statewide initiatives to collect and analyze detailed market data concerning use and demand for broadband service in order to identify implementation methods, to remove barriers to the adoption of broadband service, and, enhance information technology services, especially municipality to municipality.

We are particularly interested in the Plan's goal of creating local technology planning teams by designated regions within the state in collaboration with broadband service providers and information technology companies. The State plans to identify parties already existing in the state to develop public/private partnerships to promote digital literacy and providing opportunities for various groups to gain or enhance access to broadband services.

Thank you for your attention and consideration of the state's application.

Sincerely,

Scott Shanley
General Manager of The Town of Manchester
and Committee Chairman for The CRCOG Shared Technology Committee

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THE VOICE OF LOCAL GOVERNMENT

President: Timothy C. Griswold, First Selectman of Old Lyme • **First Vice President:** Melody A. Currey, Mayor of East Hartford • **Treasurer:** Mary Glassman, First Selectman of Simsbury • **Secretary:** Michael A. Pace, First Selectman of Old Saybrook

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Executive Director and CEO: James J. Finley, Jr.

June 28, 2010

Mr. Lawrence E. Strickling
Assistant Secretary for Communications & Information and
Administrator, National Telecommunications and
Information Administration
U.S. Department of Commerce
1401 Constitution Ave., NW
Washington, DC 20230

Dear Assistant Secretary Strickling:

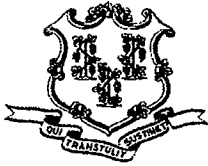
The Connecticut Conference of Municipalities supports the pending application of the Connecticut Department of Public Utility Control ("DPUC") to the National Telecommunications and Information Administration ("NTIA") for the recently announced expanded grant opportunity in the NTIA's State Broadband Data and Development Grant Program ("SBDD").

Implementation of a broadband network in Connecticut would help improve the efficiency with which local governments communicate and do business. Further, the possible completion of parcel information for the state will be of great assistance to our municipal members. It will assist them in exchanging information with other agencies and municipalities – an important consideration given Connecticut's efforts to spur regional cooperation.

Thank you for your attention and consideration of the DPUC's application.

Sincerely,

James J. Finley, Jr.
Executive Director and CEO



STATE OF CONNECTICUT

DEPARTMENT OF AGRICULTURE
OFFICE OF THE COMMISSIONER



F. Philip Prelli
Commissioner

June 25, 2010

Tel: (860) 713-2500
Fax: (860) 713-2514

Lawrence E. Strickling
Assistant Secretary for Communications & Information
and
Administrator, National Telecommunications and
Information Administration
U.S. Department of Commerce

Dear Assistant Secretary Strickling:

Our Department is writing to support the Connecticut Department of Public Utility Control's ("DPUC") pending application to the National Telecommunications and Information Administration ("NTIA") for the recently announced expanded grant opportunity in the NTIA's State Broadband Data and Development Grant Program ("SBDD"). In addition to the state and national broadband goals the DPUC's participation in the SBDD program has served, there are benefits to our Department just from the program's data collection and verification program. For instance, the data integration and display opportunities from geographic information disciplines required for the SBDD program help support our mission.

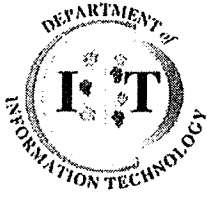
In particular, the ability to update data for five years rather than just two and the possible completion of parcel information for the remainder of the state will not only prove invaluable to our Department but will assist us in integrating information with other agencies and municipalities in mutual programs.

Thank you for your attention and consideration of the DPUC's application.

Sincerely,

A handwritten signature in black ink, appearing to read "F. Philip Prelli".

F. Philip Prelli, Commissioner
CT Department of Agriculture



STATE OF CONNECTICUT
**Department of
Information Technology**



June 28, 2010

Lawrence E. Strickling
Assistant Secretary for Communications & Information
& Administrator, National Telecommunications and
Information Administration
U.S. Department of Commerce
Herbert C. Hoover Building (HCHB)
1401 Constitution Avenue, NW
Washington D.C. 20230

Dear Assistant Secretary Strickling:

The Connecticut Department of Information Technology (DOIT) is writing to support the Connecticut Department of Public Utility Control's (DPUC) pending application to the National Telecommunications and Information Administration for the recently announced expanded grant opportunity in the NTIA's State Broadband Data and Development Grant Program (SBDD). In addition to the state and national broadband goals the DPUC's participation in the SBDD program has served, there are benefits to DOIT and the State of Connecticut from the program's data collection and verification program. DOIT is responsible for providing telecommunications services to all of the State's executive branch agencies, including the public safety and emergency management and homeland security functions.

It is imperative that we be able to provide communication services that are fully operational and reliable in the course of performing public safety missions. DPUC's Broadband Mapping project is providing information that we have had difficulty securing from the private telecommunications carriers, who prefer to protect their coverage information as proprietary, and which has contributed to loss of communications services in some state sectors for our public safety officials and staff. The mapping project is providing greater insights into the availability and reliability of support throughout our state, so that we can ensure appropriate coverages, and further ensure the safety of our state residents, visitors and public safety staff.

In addition, the funds associated with this planning grant will enhance and improve on the overall effectiveness and coordination of Broadband initiatives that are already underway in Connecticut. Initiatives already underway are as follows:

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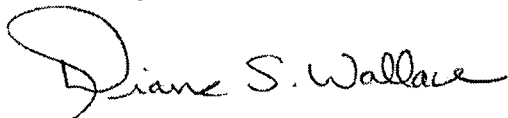
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- Implementation of a new broadband Public Safety Data Network.
- Implementation of a new broadband Public Safety E-911 Data Network.
- Upgrade and expansion of broadband coverage on the Connecticut Education Network to include educational institutions, public libraries and other anchor institutions.

Additionally, this grant will provision the State of Connecticut with:

- The establishment of a dedicated, focused resource to assure continuity between planning and implementation across all broadband initiatives that will:
 - Improve coordination between public and private sector entities,
 - Provision for the required technical expertise,
 - Provision for required training programs,
 - Improve overall collaboration of all vested parties,
 - And manage all program funding.
- Provide technical assistance to local regional Technology Planning Teams and programs to improve computer ownership and internet usage.
- Support the creation of technology and administrative solutions required to support and implement projects designed to expand computer use and broadband services to the largest number of Connecticut residents and businesses.

Thank you for your attention and consideration of the DPUC's application.

Sincerely,



Diane S. Wallace
Chief Information Officer
Department of Information Technology
State of Connecticut



STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC SAFETY
OFFICE OF THE COMMISSIONER



James M. Thomas
Commissioner

Lieutenant Edwin S. Henlon
Chief of Staff

June 25, 2010

Lawrence E. Strickling
Assistant Secretary
Communications & Information
Administrator
Herbert C. Hoover Building (HCHB)
U.S. Department of Commerce / NTIA
1401 Constitution Avenue, N.W.
Washington, D.C. 20230

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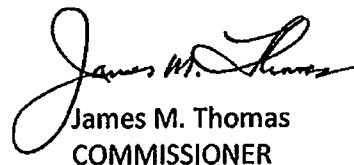
I am writing on behalf of the Department of Public Safety ("DPS") to support the Connecticut Department of Public Utility Control's ("DPUC") pending application to the National Telecommunications and Information Administration ("NTIA") for the recently announced expanded grant opportunity in the NTIA's State Broadband Data and Development Grant Program ("SBDD").

In addition to the state and national broadband goals the DPUC's participation in the SBDD program has served, there are benefits to DPS just from the program's data collection and verification program. For instance, the data integration and display opportunities from geographic information disciplines required for the SBDD program help support our mission.

In particular, the ability to update data for five years rather than just two and the possible completion of parcel information for the remainder of the state will not only prove invaluable to DPS, but will assist us in integrating information with other agencies and municipalities in mutual programs.

Thank you for your attention and consideration of the DPUC's application.

Sincerely,


James M. Thomas
COMMISSIONER

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Middletown, CT 06457
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THE VOICE OF LOCAL GOVERNMENT

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June 28, 2010

Mr. Lawrence E. Strickling
Assistant Secretary for Communications & Information and
Administrator, National Telecommunications and
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U.S. Department of Commerce
1401 Constitution Ave., NW
Washington, DC 20230

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James J. Finley, Jr.
Executive Director and CEO



STATE OF CONNECTICUT

DEPARTMENT OF AGRICULTURE
OFFICE OF THE COMMISSIONER



F. Philip Prelli
Commissioner

June 25, 2010

Tel: (860) 713-2500
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Lawrence E. Strickling
Assistant Secretary for Communications & Information
and
Administrator, National Telecommunications and
Information Administration
U.S. Department of Commerce

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CT Department of Agriculture



STATE OF CONNECTICUT
**Department of
Information Technology**



June 28, 2010

Lawrence E. Strickling
Assistant Secretary for Communications & Information
& Administrator, National Telecommunications and
Information Administration
U.S. Department of Commerce
Herbert C. Hoover Building (HCHB)
1401 Constitution Avenue, NW
Washington D.C. 20230

Dear Assistant Secretary Strickling:

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In addition, the funds associated with this planning grant will enhance and improve on the overall effectiveness and coordination of Broadband initiatives that are already underway in Connecticut. Initiatives already underway are as follows:

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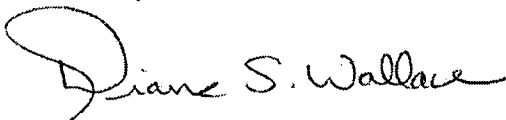
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- Support the creation of technology and administrative solutions required to support and implement projects designed to expand computer use and broadband services to the largest number of Connecticut residents and businesses.

Thank you for your attention and consideration of the DPUC's application.

Sincerely,



Diane S. Wallace
Chief Information Officer
Department of Information Technology
State of Connecticut



STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC SAFETY
OFFICE OF THE COMMISSIONER



James M. Thomas
Commissioner

Lieutenant Edwin S. Henion
Chief of Staff

June 25, 2010

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Assistant Secretary
Communications & Information
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Herbert C. Hoover Building (HCHB)
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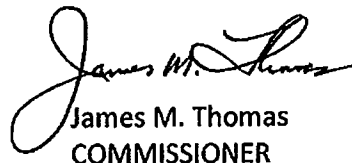
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Thank you for your attention and consideration of the DPUC's application.

Sincerely,


James M. Thomas
COMMISSIONER

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CONNECTICUT STATE LIBRARY



KENDALL F. WIGGIN
State Librarian

July 1, 2010

Lawrence E. Strickling
Assistant Secretary for Communications & Information and
Administrator, National Telecommunications and
Information Administration
U.S. Department of Commerce / NTIA
Herbert C. Hoover Building (HCHB)
1401 Constitution Avenue, N.W.
Washington, D.C. 20230

Dear Assistant Secretary Strickling:

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We are particularly interested in the Plan's goal of creating local technology planning teams by designated regions within the state in collaboration with broadband service providers and information technology companies. Most libraries in the state do not have the expertise to effectively do this on their own. The state plans to identify parties already existing in the state to develop public/private partnerships to promote digital literacy and providing opportunities for various groups to gain or enhance access to broadband services. Digital literacy is a role that we are encouraging libraries to take on and the partnerships that will be developed as part of this grant will go a long way to furthering the library's and community's capacity to address the very real issue of digital literacy.

Thank you for your attention and consideration of the state's application.

Sincerely,

A handwritten signature in cursive script that reads "Kendall F. Wiggin".

Kendall F. Wiggin

231 Capitol Avenue ~ Hartford, Connecticut 06106
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Town of Manchester

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SCOTT SHANLEY, GENERAL MANAGER

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Assistant Secretary for Communications & Information and
Administrator, National Telecommunications and Information Administration
U.S. Department of Commerce / NTIA
Herbert C. Hoover Building (HCHB)
1401 Constitution Avenue, N.W.
Washington, D.C. 20230

Dear Assistant Secretary Strickling:

As the Chairman of the Capital Region Council of Government (CRCOG) Shared Technology Committee and General Manager of the Town of Manchester, Connecticut, I am writing to support the State of Connecticut's pending application to the National Telecommunications and Information Administration ("NTIA") for the recently announced expanded grant opportunity in the NTIA's State Broadband Data and Development Grant Program ("SBDD").

In addition to the state and national broadband goals that the DPUC's participation in the SBDD program has served, there are benefits to the region (CRCOG) and to The Town of Manchester from NTIA grant funding. Both individual citizens and governmental services will benefit should the State develop a Strategic Plan for statewide initiatives to collect and analyze detailed market data concerning use and demand for broadband service in order to identify implementation methods, to remove barriers to the adoption of broadband service, and, enhance information technology services, especially municipality to municipality.

We are particularly interested in the Plan's goal of creating local technology planning teams by designated regions within the state in collaboration with broadband service providers and information technology companies. The State plans to identify parties already existing in the state to develop public/private partnerships to promote digital literacy and providing opportunities for various groups to gain or enhance access to broadband services.

Thank you for your attention and consideration of the state's application.

Sincerely,

Scott Shanley
General Manager of The Town of Manchester
and Committee Chairman for The CRCOG Shared Technology Committee

An Equal Opportunity Employer





Town of Manchester

41 Center Street • P.O. Box 191
Manchester, Connecticut 06045-0191
www.ci.manchester.ct.us

LOUIS A. SPADACCINI, MAYOR
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SCOTT SHANLEY, GENERAL MANAGER

June 25, 2010

Lawrence E. Strickling
Assistant Secretary for Communications & Information
Administrator, National Telecommunications and
Information Administration
U.S. Department of Commerce

Dear Assistant Secretary Strickling:

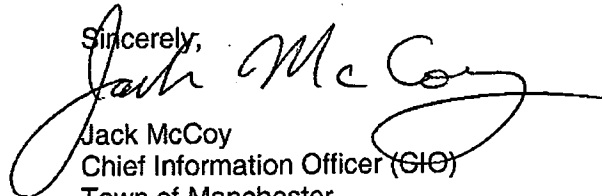
The Town of Manchester, in the National League of Cities "Digital Cities Survey", places technically in the top 10 nationally for our size cities (50,000 to 70,000). The Manchester Information Systems department, over which I am the CIO, uses a GIS layer containing Utility Poles over which our city-wide fiber optic network connects all municipal and school district buildings. This pole layer is important to managing this broadband network.

The established value of the GIS Network Layer in our municipality is a basis for our advocating this be developed for the rest of our state to encourage Broadband development and deployment. I am writing to support the Connecticut Department of Public Utility Control's ("DPUC") pending application to the National Telecommunications and Information Administration ("NTIA") for the recently announced expanded grant opportunity in the NTIA's State Broadband Data and Development Grant Program ("SBDD"). In addition to the state and national broadband goals that the DPUC's participation in the SBDD program has served, there are established short term budgetary benefits in this difficult economy to Manchester from the program's data collection and verification program. This improved collection would further the cause of interconnecting municipalities for technology services sharing over broadband by giving municipalities a complete picture of the paths to accomplish this connectivity.

The ability to access updated data for five years rather than just two and the possible completion of parcel information for the remainder of the state will not only prove invaluable to our city but will assist us in integrating information with other agencies and municipalities in mutual programs.

Thank you for your attention and consideration of the DPUC's application.

Sincerely,



Jack McCoy
Chief Information Officer (CIO)
Town of Manchester
494 Main Street,
Manchester, Connecticut 06040
Office Phone 860 647 3072



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BUDGET INFORMATION - Non-Construction Programs

OMB Approval No. 0348-0044

SECTION A - BUDGET SUMMARY						
Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. Subcontracts	11.558	\$ 4,855,657.00	\$ 1,365,004.00	\$	\$	\$ 6,220,661.00
2.						0.00
3.						0.00
4.						0.00
5. Totals		\$ 4,855,657.00	\$ 1,365,004.00	\$ 0.00	\$ 0.00	\$ 6,220,661.00

SECTION B - BUDGET CATEGORIES						
6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY					Total (5)
	(1)	(2)	(3)			
a. Personnel	\$ 104,433.00	\$ 104,433.00	\$	\$	\$	208,866.00
b. Fringe Benefits		60,571.00				60,571.00
c. Travel						0.00
d. Equipment	50,000.00					50,000.00
e. Supplies						0.00
f. Contractual	4,257,931.00					4,257,931.00
g. Construction						0.00
h. Other		1,200,000.00				1,200,000.00
i. Total Direct Charges (sum of 6a-6h)	4,412,364.00	1,365,004.00	0.00	0.00		5,777,368.00
j. Indirect Charges	443,293.00					443,293.00
k. TOTALS (sum of 6i and 6j)	\$ 4,855,657.00	\$ 1,365,004.00	\$ 0.00	\$ 0.00	\$	6,220,661.00
7. Program Income	\$	\$	\$	\$	\$	0.00

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Standard Form 424A (Rev. 7-97)
Prescribed by OMB Circular A-102

SECTION C - NON-FEDERAL RESOURCES					
(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS	
8.	\$	\$	\$	\$ 0.00	
9.				0.00	
10.				0.00	
11.				0.00	
12. TOTAL (sum of lines 8-11)	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	
SECTION D - FORECASTED CASH NEEDS					
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$ 0.00	\$	\$	\$	\$
14. Non-Federal	0.00				
15. TOTAL (sum of lines 13 and 14)	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT					
(a) Grant Program	FUTURE FUNDING PERIODS (Years)				
	(b) First	(c) Second	(d) Third	(e) Fourth	
16.	\$	\$	\$	\$	
17.					
18.					
19.					
20. TOTAL (sum of lines 16-19)	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	
SECTION F - OTHER BUDGET INFORMATION					
21. Direct Charges:		22. Indirect Charges:			
23. Remarks:					

INSTRUCTIONS FOR THE SF-424A

Public reporting burden for this collection of information is estimated to average 180 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0044), Washington, DC 20503.

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

General Instructions

This form is designed so that application can be made for funds from one or more grant programs. In preparing the budget, adhere to any existing Federal grantor agency guidelines which prescribe how and whether budgeted amounts should be separately shown for different functions or activities within the program. For some programs, grantor agencies may require budgets to be separately shown by function or activity. For other programs, grantor agencies may require a breakdown by function or activity. Sections A, B, C, and D should include budget estimates for the whole project except when applying for assistance which requires Federal authorization in annual or other funding period increments. In the latter case, Sections A, B, C, and D should provide the budget for the first budget period (usually a year) and Section E should present the need for Federal assistance in the subsequent budget periods. All applications should contain a breakdown by the object class categories shown in Lines a-k of Section B.

Section A. Budget Summary Lines 1-4 Columns (a) and (b)

For applications pertaining to a *single* Federal grant program (Federal Domestic Assistance Catalog number) and *not requiring* a functional or activity breakdown, enter on Line 1 under Column (a) the Catalog program title and the Catalog number in Column (b).

For applications pertaining to a *single* program *requiring* budget amounts by multiple functions or activities, enter the name of each activity or function on each line in Column (a), and enter the Catalog number in Column (b). For applications pertaining to multiple programs where none of the programs require a breakdown by function or activity, enter the Catalog program title on each line in *Column (a)* and the respective Catalog number on each line in Column (b).

For applications pertaining to *multiple* programs where one or more programs *require* a breakdown by function or activity, prepare a separate sheet for each program requiring the breakdown. Additional sheets should be used when one form does not provide adequate space for all breakdown of data required. However, when more than one sheet is used, the first page should provide the summary totals by programs.

Lines 1-4, Columns (c) through (g)

For *new applications*, leave Column (c) and (d) blank. For each line entry in Columns (a) and (b), enter in Columns (e), (f), and (g) the appropriate amounts of funds needed to support the project for the first funding period (usually a year).

For *continuing grant program applications*, submit these forms before the end of each funding period as required by the grantor agency. Enter in Columns (c) and (d) the estimated amounts of funds which will remain unobligated at the end of the grant funding period only if the Federal grantor agency instructions provide for this. Otherwise, leave these columns blank. Enter in columns (e) and (f) the amounts of funds needed for the upcoming period. The amount(s) in Column (g) should be the sum of amounts in Columns (e) and (f).

For *supplemental grants and changes* to existing grants, do not use Columns (c) and (d). Enter in Column (e) the amount of the increase or decrease of Federal funds and enter in Column (f) the amount of the increase or decrease of non-Federal funds. In Column (g) enter the new total budgeted amount (Federal and non-Federal) which includes the total previous authorized budgeted amounts plus or minus, as appropriate, the amounts shown in Columns (e) and (f). The amount(s) in Column (g) should not equal the sum of amounts in Columns (e) and (f).

Line 5 - Show the totals for all columns used.

Section B Budget Categories

In the column headings (1) through (4), enter the titles of the same programs, functions, and activities shown on Lines 1-4, Column (a), Section A. When additional sheets are prepared for Section A, provide similar column headings on each sheet. For each program, function or activity, fill in the total requirements for funds (both Federal and non-Federal) by object class categories.

Line 6a-i - Show the totals of Lines 6a to 6h in each column.

Line 6j - Show the amount of indirect cost.

Line 6k - Enter the total of amounts on Lines 6i and 6j. For all applications for new grants and continuation grants the total amount in column (5), Line 6k, should be the same as the total amount shown in Section A, Column (g), Line 5. For supplemental grants and changes to grants, the total amount of the increase or decrease as shown in Columns (1)-(4), Line 6k should be the same as the sum of the amounts in Section A, Columns (e) and (f) on Line 5.

Line 7 - Enter the estimated amount of income, if any, expected to be generated from this project. Do not add or subtract this amount from the total project amount, Show under the program

INSTRUCTIONS FOR THE SF-424A (continued)

narrative statement the nature and source of income. The estimated amount of program income may be considered by the Federal grantor agency in determining the total amount of the grant.

Section C. Non-Federal Resources

Lines 8-11 Enter amounts of non-Federal resources that will be used on the grant. If in-kind contributions are included, provide a brief explanation on a separate sheet.

Column (a) - Enter the program titles identical to Column (a), Section A. A breakdown by function or activity is not necessary.

Column (b) - Enter the contribution to be made by the applicant.

Column (c) - Enter the amount of the State's cash and in-kind contribution if the applicant is not a State or State agency. Applicants which are a State or State agencies should leave this column blank.

Column (d) - Enter the amount of cash and in-kind contributions to be made from all other sources.

Column (e) - Enter totals of Columns (b), (c), and (d).

Line 12 - Enter the total for each of Columns (b)-(e). The amount in Column (e) should be equal to the amount on Line 5, Column (f), Section A.

Section D. Forecasted Cash Needs

Line 13 - Enter the amount of cash needed by quarter from the grantor agency during the first year.

Line 14 - Enter the amount of cash from all other sources needed by quarter during the first year.

Line 15 - Enter the totals of amounts on Lines 13 and 14.

Section E. Budget Estimates of Federal Funds Needed for Balance of the Project

Lines 16-19 - Enter in Column (a) the same grant program titles shown in Column (a), Section A. A breakdown by function or activity is not necessary. For new applications and continuation grant applications, enter in the proper columns amounts of Federal funds which will be needed to complete the program or project over the succeeding funding periods (usually in years). This section need not be completed for revisions (amendments, changes, or supplements) to funds for the current year of existing grants.

If more than four lines are needed to list the program titles, submit additional schedules as necessary.

Line 20 - Enter the total for each of the Columns (b)-(e). When additional schedules are prepared for this Section, annotate accordingly and show the overall totals on this line.

Section F. Other Budget Information

Line 21 - Use this space to explain amounts for individual direct object class cost categories that may appear to be out of the ordinary or to explain the details as required by the Federal grantor agency.

Line 22 - Enter the type of indirect rate (provisional, predetermined, final or fixed) that will be in effect during the funding period, the estimated amount of the base to which the rate is applied, and the total indirect expense.

Line 23 - Provide any other explanations or comments deemed necessary.

INSTRUCTIONS FOR THE SF-424A

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Lines 1-4, Columns (c) through (g)

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Line 5 - Show the totals for all columns used.

Section B Budget Categories

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Line 6a-i - Show the totals of Lines 6a to 6h in each column.

Line 6j - Show the amount of indirect cost.

Line 6k - Enter the total of amounts on Lines 6i and 6j. For all applications for new grants and continuation grants the total amount in column (5), Line 6k, should be the same as the total amount shown in Section A, Column (g), Line 5. For supplemental grants and changes to grants, the total amount of the increase or decrease as shown in Columns (1)-(4), Line 6k should be the same as the sum of the amounts in Section A, Columns (e) and (f) on Line 5.

Line 7 - Enter the estimated amount of income, if any, expected to be generated from this project. Do not add or subtract this amount from the total project amount. Show under the program

INSTRUCTIONS FOR THE SF-424A (continued)

narrative statement the nature and source of income. The estimated amount of program income may be considered by the Federal grantor agency in determining the total amount of the grant.

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Column (a) - Enter the program titles identical to Column (a), Section A. A breakdown by function or activity is not necessary.

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Column (d) - Enter the amount of cash and in-kind contributions to be made from all other sources.

Column (e) - Enter totals of Columns (b), (c), and (d).

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If more than four lines are needed to list the program titles, submit additional schedules as necessary.

Line 20 - Enter the total for each of the Columns (b)-(e). When additional schedules are prepared for this Section, annotate accordingly and show the overall totals on this line.

Section F. Other Budget Information

Line 21 - Use this space to explain amounts for individual direct object class cost categories that may appear to be out of the ordinary or to explain the details as required by the Federal grantor agency.

Line 22 - Enter the type of indirect rate (provisional, predetermined, final or fixed) that will be in effect during the funding period, the estimated amount of the base to which the rate is applied, and the total indirect expense.

Line 23 - Provide any other explanations or comments deemed necessary.

ASSURANCES - NON-CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.

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

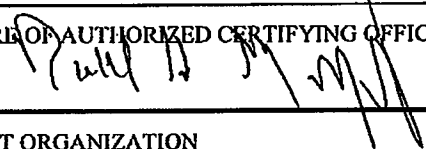
As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. 4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. 1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), which prohibits discrimination on the

basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. 6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) 523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. 290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VII of the Civil Rights Act of 1968 (42 U.S.C. 3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.

7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. 1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

<p>9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. 276a to 276a-7), the Copeland Act (40 U.S.C. 276c and 18 U.S.C. 874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-333), regarding labor standards for federally-assisted construction subagreement.</p> <p>10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.</p> <p>11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in flood plains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. 1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. 7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).</p>		<p>12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. 1271 et seq.) Related to protecting components or potential components of the national wild and scenic rivers system.</p> <p>13. Will assist the awarding agency in assuring compliance will Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. 470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. 469a-1 et seq.).</p> <p>14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.</p> <p>15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. 2131 et seq.) Pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.</p> <p>16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. 4801 et seq.) Which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.</p> <p>17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."</p> <p>18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.</p>
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SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL 	TITLE Lead Rate Specialist
APPLICANT ORGANIZATION Department of Public Utility Control	DATE SUBMITTED July 1, 2010