

Application for Federal Assistance SF-424

Version 02

* 1. Type of Submission:		* 2. Type of Application:		* If Revision, select appropriate letter(s):	
<input type="checkbox"/> Preapplication		<input checked="" type="checkbox"/> New		<input type="text"/>	
<input checked="" type="checkbox"/> Application		<input type="checkbox"/> Continuation		* Other (Specify)	
<input type="checkbox"/> Changed/Corrected Application		<input type="checkbox"/> Revision		<input type="text"/>	
* 3. Date Received:		4. Applicant Identifier:			
<input type="text" value="08/14/2009"/>		<input type="text"/>			
5a. Federal Entity Identifier:			* 5b. Federal Award Identifier:		
<input type="text"/>			<input type="text"/>		
State Use Only:					
6. Date Received by State:		7. State Application Identifier:			
<input type="text" value="08/06/2009"/>		<input type="text"/>			
8. APPLICANT INFORMATION:					
* a. Legal Name: <input type="text" value="State of Oklahoma"/>					
* b. Employer/Taxpayer Identification Number (EIN/TIN):			* c. Organizational DUNS:		
<input type="text" value="73-6017987"/>			<input type="text" value="1310647920000"/>		
d. Address:					
* Street1:	<input type="text" value="2300 N Lincoln Boulevard"/>				
Street2:	<input type="text"/>				
* City:	<input type="text" value="Oklahoma City"/>				
County:	<input type="text"/>				
* State:	<input type="text" value="OK: Oklahoma"/>				
Province:	<input type="text"/>				
* Country:	<input type="text" value="USA: UNITED STATES"/>				
* Zip / Postal Code:	<input type="text" value="73105-4801"/>				
e. Organizational Unit:					
Department Name:			Division Name:		
<input type="text" value="Office of State Finance"/>			<input type="text" value="Information Services"/>		
f. Name and contact information of person to be contacted on matters involving this application:					
Prefix:	<input type="text" value="Mr."/>	* First Name:	<input type="text" value="Joseph"/>		
Middle Name:	<input type="text"/>				
* Last Name:	<input type="text" value="Fleckinger"/>				
Suffix:	<input type="text"/>				
Title:	<input type="text" value="Deputy Director of Information Technology"/>				
Organizational Affiliation:					
<input type="text"/>					
* Telephone Number:	<input type="text" value="405-522-4026"/>	Fax Number:	<input type="text" value="405-522-3042"/>		
* Email:	<input type="text" value="joe.fleckinger@osf.ok.gov"/>				

Application for Federal Assistance SF-424

Version 02

9. Type of Applicant 1: Select Applicant Type:

A: State Government

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

* Other (specify):

*** 10. Name of Federal Agency:**

Department of Commerce

11. Catalog of Federal Domestic Assistance Number:

CFDA Title:

*** 12. Funding Opportunity Number:**

0660-ZA29

* Title:

Recovery Act - State Broadband Data and Development Grant Program

13. Competition Identification Number:

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

State of Oklahoma

*** 15. Descriptive Title of Applicant's Project:**

Oklahoma Broadband Mapping Project

Attach supporting documents as specified in agency instructions.

Add Attachments

Delete Attachments

View Attachments

Application for Federal Assistance SF-424

Version 02

16. Congressional Districts Of:

* a. Applicant * b. Program/Project

Attach an additional list of Program/Project Congressional Districts if needed.

Add Attachment

Delete Attachment

View Attachment

17. Proposed Project:

* a. Start Date: * b. End Date:

18. Estimated Funding (\$):

* a. Federal	<input type="text" value="5,241,907.00"/>
* b. Applicant	<input type="text" value="0.00"/>
* c. State	<input type="text" value="4,105,330.00"/>
* d. Local	<input type="text" value="0.00"/>
* e. Other	<input type="text" value="0.00"/>
* f. Program Income	<input type="text" value="0.00"/>
* g. TOTAL	<input type="text" value="9,347,237.00"/>

* 19. Is Application Subject to Review By State Under Executive Order 12372 Process?

- a. This application was made available to the State under the Executive Order 12372 Process for review on
- b. Program is subject to E.O. 12372 but has not been selected by the State for review.
- c. Program is not covered by E.O. 12372.

* 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes", provide explanation.)

Yes No

21. *By signing this application, I certify (1) to the statements contained in the list of certifications** and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)

 ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix: * First Name: Middle Name: * Last Name: Suffix: * Title: * Telephone Number: Fax Number: * Email: * Signature of Authorized Representative: * Date Signed:

Application for Federal Assistance SF-424

Version 02

*** Applicant Federal Debt Delinquency Explanation**

The following field should contain an explanation if the Applicant organization is delinquent on any Federal Debt. Maximum number of characters that can be entered is 4,000. Try and avoid extra spaces and carriage returns to maximize the availability of space.

OKLAHOMA BROADBAND MAPPING PROJECT ABSTRACT

Oklahoma is comprised of vibrant cities and towns while remaining substantially rural throughout the majority of its seventy-seven counties. Access to technology for the provision of enhanced education, healthcare and emergency services plus job growth and development, have long been identified as one of the most essential tools a community must have to expand its economic potential and community livability. Government and education leaders, the Oklahoma Department of Commerce, state and local Chambers of Commerce, and statewide policy organizations are unanimous in their support for the need to provide a statewide network of easy and accessible broadband.

The Oklahoma Broadband Mapping Project seeks funding from NTIA to collect the necessary data to identify broadband assets, gaps in broadband services, and opportunities for expansion of broadband services. It will enable Oklahoma's technology community to integrate its information among the government, non-government, and private sectors, and for policy leaders to use comprehensive mapping data to make decisions for the allocation of resources to unserved and underserved areas.

The Oklahoma Broadband Mapping Project will be achieved through a partnership comprised of local, state and tribal governments, non-governmental agencies, private sector and industry representatives, and the educational community to include early, common, and higher education, career technical training and workforce development. A technical working group will recommend to state officials the selection of a professional firm to collect and compile the necessary data to map broadband accessibility and to submit required data to NTIA for preparation of a national broadband map.

Oklahoma state agencies have worked for several months to consolidate data that is currently available through their respective data bases to create the foundation for a comprehensive mapping effort. State agencies have fiber networks and towers across the state with numerous existing public/private partnerships and some inter-local agreements with local and tribal governments. However, key segments of information not presently available to the state are the broadband service areas covered primarily by the private sector. There is additional information needed from all local and tribal governments to achieve a comprehensive and accessible data base of service needs and service opportunities. The company selected by the state to undertake the Mapping Project will be required to demonstrate its ability to collect the data necessary for building a comprehensive state broadband map for submission to NTIA.

The state is requesting a grant in the amount of \$4,741,907 plus \$500,000 for broadband planning purposes that will create a strategic focus for the expansion of broadband in unserved and underserved areas. The state's required twenty percent match will include the documented costs of developing the existing data contributed by the state to this project, plus the time devoted by state personnel to this project as outlined in the federal NOFA.

OKLAHOMA BROADBAND MAPPING PROJECT PROGRAM NARRATIVE

EXECUTIVE SUMMARY

The State of Oklahoma requests \$4,741,907 to collect the necessary data to complete mapping of all broadband services throughout the state. This will result in a comprehensive map of the state's broadband coverage that will accurately define the underserved and unserved areas. In addition, Oklahoma is seeking \$500,000 in planning grant funds to create a strategic plan for service delivery to those areas in need and to assist in the preparation of a grant application for the future expansion of broadband services.

As Oklahoma strives to create a knowledge-based economy and to ensure high quality education, healthcare and public safety services for citizens across the state, broadband access must be expanded and improved. Oklahoma remains largely a rural state throughout most of its seventy-seven counties where access to broadband is limited, especially in the far northwestern and southeastern regions. The Oklahoma Broadband Mapping Project and Planning Grant will refine the data base and create a strategic focus necessary to integrate public and private sector knowledge with the allocation of future resources to benefit Oklahomans.

The Oklahoma Broadband Mapping Project will collect accurate, complete and comprehensive data to empirically identify the unserved and underserved areas of the state. The Project will identify existing broadband assets, gaps in broadband services, and opportunities for expansion of broadband services. It will enable Oklahoma's technology community to integrate its information among the government, non-government, and private sectors and create a data base that will support future decisions for the allocation of resources to unserved and underserved areas.

The Oklahoma Broadband Mapping Project will be achieved through a partnership comprised of local, state and tribal governments, non-governmental agencies, private sector and industry representatives, and the educational community to include early, common, and higher education, career technical training and workforce development. A competitive selection process will be used to acquire the services of a professional company for the collection and compilation of mapping data that will be submitted to NTIA for preparation of a national broadband map.

State agencies have worked for several months to consolidate data and provide a foundation for a comprehensive mapping project. Additionally, Oklahoma agencies maintain existing fiber networks and tower assets across the state and have more than two decades of experience developing and sustaining public/private partnerships with broadband and telecommunications providers. It is the goal of the state to expand its partnership with the commercial provider community to provide broadband to all areas of the state in the most cost-effective and efficient manner possible.

The financial request defined in the Budget Information section covers the Year-One data collection, validation and mapping effort. Further, it encompasses the Year-Two through

OKLAHOMA BROADBAND MAPPING PROJECT

PROGRAM NARRATIVE

Five data refresh designed to keep the map up-to-date and accurate. The state will also seek outside professional expertise to collect vital service area information from the commercial providers and format this data for submission to NTIA. Budget information for the Planning Grant is provided separately.

DATA

Existing State Data and Data Gathering

Oklahoma currently has a collection of geospatial data as well as broadband data that lay the foundation for a broadband mapping initiative. However, additional mapping must be undertaken to integrate private sector information and additional information from local and tribal governments to clearly define underserved and unserved areas. An outside firm will be chosen after a competitive selection process to undertake this technical aspect of the Mapping Project.

Imagery. Oklahoma has been active in building spatial data infrastructure through Geographical Information Systems (GIS). The Office of Geographic Information (OGI) chairs the Oklahoma Geographic Information Council (OGIC) as the central point for geospatial coordination among multiple state agencies, local governments and universities to promote GIS and mapping across the state. The OGI serves as the warehouse for statewide digital imagery that has been obtained by the State of Oklahoma. **Exhibit 1 (attached separately)** shows a complete listing of aerial imagery data available.

Geospatial Foundation Data. Another member of the OGIC is the University of Oklahoma – Center for Spatial Analysis (OUCSA). This group hosts a spatial data warehouse for the State of Oklahoma, as a node in the National Geospatial Data Infrastructure (NSDI). OUCSA updates, maintains, and disseminates a wide range of geospatial data with comprehensive meta data online. While most data are public in nature, some project data permits only limited access through authentication. Geospatial data essential for the broadband mapping project will be supported by OUCSA holdings of statewide 2000 census blocks with demographics data, administrative boundaries for counties, municipalities, tribal governments, federal urban areas, and addresses of voter registrations. Over the years, OUCSA has maintained and updated these data progressively for different counties across the states.

Community Assets. OUCSA is currently working on data collection and compilation of public facilities across rural Oklahoma communities in conjunction with the Oklahoma Department of Commerce (ODOC). The Capital Improvement Planning (CIP) data collection has 5-year cycles sponsored by ODOC through community development block grants for asset management and economic development. Specifically, OUCSA is working with geospatial technicians through regional Councils of Governments to implement the GeoCIP© Program. This program combines GIS technology and local

OKLAHOMA BROADBAND MAPPING PROJECT PROGRAM NARRATIVE

government asset management practices into a standardized process for creating a GIS based inventory to be used in annually evaluating asset conditions, setting improvement priorities and updating local governments' capital budgets. As of July 2009, it is estimated that 5-10% of the GeoCIP© data has been processed and validated. OUCSA is developing a state-wide GeoCIP© data model to integrate data from all communities to support ODOC reporting. Furthermore, the GeoCIP© data model has been designed to promote extensibility to other GIS or mapping projects, including the broadband mapping project. A list of GeoCIP© data is provided in **Exhibit 2 (attached separately)**.

Streets and Addresses. Also available through OUCSA is a partial data listing for E911 Road and Point information. Through data sharing agreements with the regional Councils of Governments (COGs), OUCSA is assembling street centerlines, E911 (**Exhibit 3 attached separately**) and point address information from the counties with that information available through a data warehouse. For the broadband mapping project, OUCSA will continue working with the Councils of Government (COGs) to obtain 911 data, street centerlines, and other address data when available and integrate the local data with regional and state-wide geospatial data. A map showing the coverage of COGs is shown in **Exhibit 4 (attached separately)**.

Telecommunication Data. The Oklahoma Department of Transportation (ODOT) has an extensive communications network that is developed to facilitate field and construction crews as well as providing network connections to field offices. ODOT has undertaken a Fiber Optic Line project that utilizes the highway right-of-way as the conduit for the fiber optics. Another project established communication towers for radio communications for field crews and for installing microwave transmitters.

In addition to ODOT's extensive communications network, other state agencies have assets and telecommunications capabilities – Oklahoma State Regents of Higher Education (OSHRE), Office of State Finance (OSF), Oklahoma Department of Homeland Security (ODHS), Oklahoma Education Television Authority (OETA), Oklahoma Turnpike Authority (OTA), and Grand River Dam Authority (GRDA). The attached map – **Exhibit 5 (attached separately)**, depicts the fiber routes, tower locations, and commercial services available. The information missing from the attached map is broadband service provided by local and tribal governments and the private sector.

Besides state and private communication networks, the Oklahoma State Board of Regents leads universities and colleges in the state in connection to the National LambdaRail (NLR). NLR, with speed up to 40 Gbps, poses no restrictions on usage or bandwidth to support research and education. **Exhibit 6 (attached separately)** shows the current NLR from the NLR website (<http://www.nlr.net>) As an existing footprint throughout the U.S. and new links to international organizations, NLR provides unprecedented opportunities for collaboration, innovation and commercialization among the global research community and between private and public partners. Two flagship universities in the state (University of Oklahoma and Oklahoma State University) are directly connected to NLR, and regional universities and colleges are connected through the state OneNet system. The University of Oklahoma is also a member of the Great Plains Network

OKLAHOMA BROADBAND MAPPING PROJECT PROGRAM NARRATIVE

Consortium that aims to develop middle-ware infrastructure for collaborative research and education. These networks provide a foundation for faculty and students access to broadband state-wide.

Partnerships

In addition to the cooperation of the state agencies in mapping and sharing assets, the state has partnerships with the IXC, MBO, Sprint and INFO. The state anticipates creating additional partnerships with the private sector to provide broadband to all areas of the state.

APPROACH

Collect and Refine Existing Data

The state will work with OGI, OUCSA, COGs, Oklahoma Election Board, counties, state agencies, tribal governments and existing partners on data efforts. All the existing data discussed in the previous section will be evaluated and refined. OGI and OUCSA will coordinate these data stakeholders to assemble these existing data and make the data available to the mapping company selected to undertake the data collection and compilation. Because these existing data were developed in support of different project needs, data definitions and formats may vary significantly and may be incompatible. The mapping company is expected to standardize the existing data, identify data gaps, acquire new data, and submit all required data to NTIA.

There is commercial information available to meet the primary goal of NTIA at the address level. Currently, two national companies have comprehensive geospatial data for Oklahoma. These commercial data sets include address points or address ranges along street lines, locations for schools, hospitals, airports, public parks, recreational areas, etc., as well as an abundance of other useful information. The two companies are NavTeq Enterprise America and TeleAtlas. Both companies have provided quotes for enterprise licenses to the State of Oklahoma and include all attributes necessary for this mapping initiative. The estimated cost is \$162,000.

While the commercial data sets in general cover the entire state, it is understood that rural areas do not enjoy the same data quality and data density as in urban areas. In contrast, most areas unserved or underserved by the existing broadband networks are expected to be in rural communities. Therefore, the selected mapping company for data collection will correct data errors and fill data gaps in the commercial data to assure consistent data quality across the state. According to NTIA guidelines, broadband mapping needs to identify address locations for census blocks greater than two square miles. Approximately, 6200+ census blocks are over two square miles and with residents. Much effort will be needed to supplement the commercial data with address point locations in these large census blocks.

OKLAHOMA BROADBAND MAPPING PROJECT PROGRAM NARRATIVE

Address / Parcel Point Data Collection

To supplement the existing data in the most rural areas the State will initiate a project with each of the 77 counties in the state to collect address/parcel point location data for this project. Through each of the County Assessors offices, every parcel of land will be identified with a GPS location and address information. This information will be provided to this project to supplement the data in the rural areas. By the end of this mapping project, accurate information for address level broadband mapping will be provided and the E911 systems throughout the state will have the most accurate information in serving the emergency needs in Oklahoma thereby enhancing public safety services for citizens.

Select Mapping Company

The state will prepare a request for proposal (RFP) to select a company to obtain the required information from the broadband providers operating in the State of Oklahoma and compile all required data with meta data in the format specified by NTIA. The company will submit the data to the state in the form of ArcGIS shapefiles or geodatabases with maps to show coverage of all broadband services and the type of technology used for communication. ArcGIS is a GIS software developed by Environmental Systems and Research Institute in Redlands, California. The software is used by most state and local government agencies in Oklahoma. However, the company can provide data in other GIS formats interoperable with ArcGIS software. Furthermore, the company is expected to integrate the broadband GIS data with demographic information to produce a comprehensive statewide inventory and mapping of existing broadband service capability in support for identification of unserved and underserved areas. The mapping company will be selected by September 10, 2009.

The Request For Proposal will cover the following major topics:

Data Collection

The mapping company shall collect comprehensive and accurate data about broadband services in Oklahoma. They shall identify and contact each provider of broadband services in Oklahoma to obtain all information necessary to develop a statewide broadband map, including, but not limited to, existing broadband infrastructure (fiber optics networks, towers, etc.), geographic areas in which broadband service is available; technologies used to provide broadband services; the speeds at which broadband service is available; and broadband service availability at public schools, libraries, hospitals, colleges and universities, and public buildings. They shall also provide to the state the contact information of each provider of broadband services to whom the state can seek update information to support broadband mapping.

OKLAHOMA BROADBAND MAPPING PROJECT PROGRAM NARRATIVE

Mapping

The mapping company shall use the information collected as described in the Data Collection section and commercial data acquired for the project to comply with all requirements established by the State Broadband Data and Development Grant Program. At a minimum, such maps should show areas of Oklahoma that are not served by any provider; areas served by only a single provider; areas served by multiple providers; the location of towers that could be used to receive and transmit broadband signals; and the type of technology used to provide broadband services, including, but not limited to, cable modem, DSL, ADSL, VDSL, fiber optics and both fixed and mobile wireless. For areas where current broadband infrastructure exists, the map shall identify, at a minimum, the transmission speeds, levels, type of service available, and retail price information. The company shall ensure that data used to produce the maps can be integrated with demographic data from other sources to allow for production of maps that measure (down to census blocks) the levels of broadband services using different technologies.

The company shall comply with all mapping update requirements established in the State Broadband Data and Development Grant Program.

Accuracy and Verification

The mapping company shall describe how the data collected will be validated. If they plan to use a subcontractor to perform the validation, the company must describe the process that will be used to ensure the quality and accuracy of the subcontractor's work.

Security and Confidentiality

The mapping company shall describe the methods they intend to use to ensure both transparency of process and protection of collected data, including confidential information as defined by NTIA. They shall provide a sample of the confidential document they propose to use to ensure confidence among the entities providing information. The company must provide a list of at least three customers/clients where the proposed document was successfully used.

Recent and Relevant Project Experience

The company shall have completed at least one project or combination of projects similar in size and nature to the scope of work for this RFP. They shall provide the following information to document their experience in delivering services such as those being sought under this RFP.

- Project Name
- Client: Name, Address, City, State, Contract Name and Information.
- Project Summary/Results

OKLAHOMA BROADBAND MAPPING PROJECT PROGRAM NARRATIVE

Cost Proposal

The mapping company shall provide: A cost proposal for the proposed services. The cost proposal shall constitute the total compensation due to the company for the required services and all the company's obligations including, but not limited to, all applicable taxes, fees, overhead, subcontractor cost, travel, meals, lodging and all other direct and indirect cost incurred or to be incurred by the mapping company.

Project Management

The state will utilize the Project Management Process which is a standard management approach to ensure the mapping project is completed on time and on budget. The major components of the process include a clear and concise statement of work, including final deliverables; a realistic timeline; assignment of qualified and experienced personnel to perform the work; and periodic deliverables to measure progress and regular status reports. Regular progress reports will be provided to the Broadband Advisory Committee.

This process will be included as part of the signed contract and will be reviewed in detail prior to the commencement of any work.

Verification and Validation

The state will require the mapping company to describe in detail the process for validation of the collected data. To ensure independent validation of the data, the state will enlist the University of Oklahoma – Center for Spatial Analysis (OUCSA) to verify the mapping company's data and validate the mapping outcomes of broadband services. It is expected the data will be verified by using statistical sampling methodology.

Data verification and validation will evaluate whether data has been collected and generated according to specifications and acceptance criteria, as well their appropriateness and consistency with their intended use. Data verification systematically evaluates performance and compliance of a set of data when compared to a set of standards to ascertain its completeness, correctness, and consistency using the methods and criteria defined in the project documentation. Data validation follows the data verification process and ascertains the usability of the data in light of its measurement quality objectives and to ensure that results obtained are scientifically defensible.

OUCSA will conduct data verification and validation in three ways: (1) data collection and processing, (2) data integration and mapping, and (3) map analysis. Verification tasks for data collection and processing inspect data extracted from the selected mapping company's database to evaluate the data set's completeness, correctness and compliance in accordance with the NTIA requirements. The emphases

OKLAHOMA BROADBAND MAPPING PROJECT PROGRAM NARRATIVE

will be placed on meta data documentation, assurance of procedures to include all available broadband service providers, and data consistency and completeness across geographic areas. The inspection will parallel the company's efforts on data collection and compilation. The company will pass the individual data sets to OUCSA for inspections, and OUCSA will verify the data by extracting 30% of the data against NTIA requirements. The choice of 30% is based on a rule of thumb in statistics that 30 is a minimum sample size to obtain statistical significance. The use of 30% in verification and validation is a minimal sampling target. When the verification or validation outcomes are inconclusive, the processes will be repeated with 50% data. This guideline will apply to all verification and validation tasks in the project.

For data integration and mapping, OUCSA will verify the data's geographic references (including coordinate system, datum, and units) and essential data elements across all data sets. A major challenge in data integration is the differences in naming conventions, data definitions, and data characterizations. The broadband mapping project will use data from diverse sources, such differences may or may not be easily discerned, and when the differences have been overlooked, data integrity across all data sets will be comprised, leading to mapping errors. OUCSA will inspect 30% of all data in a given county to verify data for integration and mapping.

Verification for map analysis inspects the procedures taken to produce maps of broadband services and the maps generated by the procedures. Geospatial data account for spatial uncertainty. As a result, locations of points and lines are subject to degrees of generalization. The procedure to determine service area can be subjective. The verification for map analysis will first examine the company's procedures to delineate service areas to assure that the procedures conform to established mapping principles in academic literature, and then will follow the procedures to map 30% of a given county to verify the outcome of the procedures in mapping service areas.

Validation tasks will include:

- (1) for each service provider, the service area, technology, and speed of the communication;
- (2) for each census block, the number of service providers and the technologies and speeds supported by these providers; and
- (3) for individual addresses within census blocks greater than 2 square miles, the number of service providers and the technologies and speeds supported by these providers. The validation will proceed with 30% of area, 30% of census blocks smaller than 2 square miles, and 30% of addresses from census blocks greater than 2 square miles.

Data for validation must be obtained independently of the data the company uses for mapping. Two sets of data will be used in validation. One is from the address point location efforts that will digitize land parcels, extract the center point of each parcel, and attach address information for each parcel center point. Before the address point location efforts have been completed state-wide, existing parcel data in some municipalities, such as the City of Norman and City of Oklahoma City will be used for validation of service area coverage. Some census blocks may not be fully covered by a service provider, and

OKLAHOMA BROADBAND MAPPING PROJECT PROGRAM NARRATIVE

hence, the unserved or underserved areas determined using census blocks as the unit for mapping are likely to be under-estimated. The validation process will generate data to show the percentage of addresses within a census block covered by a service provider serving that census block and, moreover, the percentage of a census block covered by the number of providers in the company's mapping outcome. The statistics will then be summarized to determine the degree of under-estimation and provide an estimated level of statistical confidence in the unserved and underserved areas. Samples will be taken from urban, suburban, and rural areas to examine potential geographic biases in the mapping. If the validation suggests some geographic biases, additional efforts will be devoted to identify causes and, if necessary, conduct new data collection.

The second source of validation data will be collected through surveys. Three forms of surveys will be developed: (1) phone surveys; (2) mail surveys; and (3) web surveys. These surveys will inquire information about building use (commercial, public, or residential), address, broadband used, speed, technology, and reliability. Phone surveys and mail surveys will follow the conventional protocols with questionnaires. Subjects will be randomly selected from local phone books. An interactive website will be developed for web surveys with the same questions to fill out and an additional option for the subject to run a script to test out connection speed and to map out one's location. Collectively, responses from all three forms of surveys need to meet the 30% thresholds as discussed previously to assure statistic validity.

Accessibility

The state will make the provided data available by using a simple web mapping application developed for this purpose. This web site will be developed in connection with OK.gov, the state's portal, and OUCSA. The state will lead the development of a state-wide broadband webGIS application with links to other geospatial data at OGI and OUSA so that updates to other geospatial data sets (such as municipal boundaries, street centerlines, school districts, demographics, etc.) useful to determine broadband unserved and underserved area and population can be readily incorporated into updating broadband service capability locally, regionally, and statewide.

The web site will have at least three levels of authentication. The first level provides open access to all public domain data and block-level broadband service displays. The application will allow the user to point to a location on the map or enter their address to determine whether broadband service is available and the type of service. The second and third levels of access requires authentication. The second level provides address-level and parcel-level information for authorized municipal and county officers to view detailed information about their jurisdictions. The third level of access permits a limited number of authorized users to access all data in the system. These users are broadband project members and users with special permissions from the chair of the state broadband committee. The broadband service maps for the state, local and tribal governments will be available, depending upon the level of authentication, as both an interactive web mapping application and a downloadable PDF file for printing.

OKLAHOMA BROADBAND MAPPING PROJECT PROGRAM NARRATIVE

Security and Confidentiality

The success of the mapping project will be the result of the cooperation and sharing of data by the private telecommunications providers operating in Oklahoma, the local and tribal governments. It is imperative for the state to develop a State Level Non-Disclosure Agreement (NDA) for all providers and others, which requires that data be kept secure and confidential. This NDA will give these entities the needed comfort in sharing their coverage data with the state.

PROJECT FEASIBILITY

The Oklahoma Broadband Mapping Project's goal is to collect and provide accurate and sustainable data for mapping broadband inventory and to identify unserved and underserved areas of the state.

The state of Oklahoma is requesting \$4,741,907 in funding from NTIA to develop, update and provide internet access information as part of a statewide broadband mapping project. An additional \$500,000 is requested for broadband planning funds to strengthen the state's strategic focus on broadband development, funding and implementation. The state is required to provide 20% in matching funds. Oklahoma's match will include the documented costs (\$4,105,330) of developing the state's current map of assets in addition to documented personnel costs dedicated to this project. The matching amount is shown on **Exhibit 7 (attached separately)**.

The proposed budget will achieve the following:

- ✓ Year One will include data collection, verification, and mapping, and the development and hosting of a web-mapping application. Oklahoma will acquire a complete address database with two refreshes of this database during the five year project. Oklahoma will employ a third party to collect the required information from the providers, produce the maps and format all data for submission to NTIA.

- ✓ Years Two through Five will include bi-annual mapping data updates, re-verification, web-mapping application updates and hosting, and acquisition of Point Location Information for every address and parcel in each of Oklahoma's 77 counties.

Year One acquisition of complete Oklahoma household database from commercial company initially and for each refresh--\$162,000.

Commercial datasets are available to meet the primary goal of NTIA at the census block and address level. Currently, there are two national companies that have complete datasets for Oklahoma. These datasets provide point or address range locations for

OKLAHOMA BROADBAND MAPPING PROJECT PROGRAM NARRATIVE

addresses, schools, hospitals, airports, public parks, recreational areas, and an abundance of additional vital information. These companies, NavTeq Enterprise America and TeleAtlas, have provided quotes for enterprise licenses to Oklahoma which includes all attributes necessary for this mapping initiative.

Year One development of initial mapping data and submittal to NTIA by third party--\$1,000,000.

This is the estimated contracted cost for a third party to work with the state to create the State Level NDA, to collect the initial data from the service providers, convert the data to mapped addresses, verify the data and submit it to NTIA.

Year One development of Web Mapping Application--\$50,000.

This is the cost to develop an interactive web mapping application that will allow users to either pick a location on a map or enter an address to see what broadband options are available.

Web Hosting for Mapping Application for five years--\$10,000.

This is the cost to host the application on the OK.gov servers for five years.

Year One independent validation of mapping data--\$374,659.

This is the cost for the University of Oklahoma – Center for Spatial Analysis (OUCSA) to independently verify the mapping data collected by the third party mapping firm. This figure includes all personnel, supplies, travel and other costs incurred by OUCSA.

Years Two through Five Counties Project – Point Location Information--\$1,540,000.

This is the cost for each of the 77 counties to provide personnel, supplies and travel to gather the point location information for every address and parcel. By implementing this method to collect the point/address information, the need for commercial data will be eliminated at the end of the 5 year project. The Point Location Information is an important need for Oklahoma and is critical to the success of this project.

Years Two through Five Bi-Annual updates and validation of Broadband Mapping data--\$1,201,248.

This is the cost for the bi-annual refresh and independent verification of mapping data by OUCSA. This includes the cost of two refreshes of commercial firm address data in year three and year five.

Years Two through Five Web Mapping Application maintenance and upgrades--\$80,000.

This is the cost to maintain the Web Mapping application and includes bi-annual data updates and upgrades to newer versions of the Web Mapping software.

**OKLAHOMA BROADBAND MAPPING PROJECT
PROGRAM NARRATIVE**

DETAILED BREAKDOWN

Year One:

Commercial Data	\$ 162,000
Vendor for Mapping	\$1,000,000
Web Mapping Application Development	\$ 50,000
Web Hosting for Mapping Application	\$ 2,000
OUCSA Contract for Mapping Data Validation	\$ 374,659
Year One Total:	\$1,588,659

Year Two:

Counties Project – Point Location Information	\$ 385,000
OU Contract for Bi-Annual Updates/Validation	\$ 300,312
Web Mapping Application Updates	\$ 20,000
Web Hosting for Mapping Application	\$ 2,000
Year Two Total:	\$ 707,312

Year Three:

Commercial Data Refresh	\$ 162,000
Counties Project – Point Location Information	\$ 385,000
OU Contract for Bi-Annual Updates/Validation	\$ 300,312
Web Mapping Application Updates	\$ 20,000
Web Hosting for Mapping Application	\$ 2,000
Year Three Total:	\$ 869,312

Year Four:

Counties Project – Point Location Information	\$ 385,000
OU Contract for Bi-Annual Updates/Validation	\$ 300,312
Web Mapping Application Updates	\$ 20,000
Web Hosting for Mapping Application	\$ 2,000
Year Four Total:	\$ 707,312

Year Five:

Commercial Data Refresh	\$ 162,000
Counties Project – Point Location Information	\$ 385,000
OU Contract for Bi-Annual Updates/Validation	\$ 300,312
Web Mapping Application Updates	\$ 20,000
Web Hosting for Mapping Application	\$ 2,000
Year Five Total:	\$ 869,312

Total Five Year Budget **\$4,741,907**

Planning: **\$ 500,000**

Total Cost for Five Year Project: **\$5,241,907**

OKLAHOMA BROADBAND MAPPING PROJECT PROGRAM NARRATIVE

Capacity, Knowledge and Experience

Oklahoma proposes this mapping project with a coalition of organizations with technical expertise and experience in the planning and delivery of broadband and mapping services. The coalition includes:

The Oklahoma Geographic Information Council is the central point for multiple state agencies, local governments and universities that practice mapping through GIS. The OGI serves as the warehouse for statewide digital imagery that has been obtained by the state.

The University of Oklahoma – Center for Spatial Analysis is a Geospatial Data Clearinghouse, a node of the National Spatial Data Infrastructure (NSDI). Data available from OUCSA consists of statewide 2000 census block boundary and demographics data, County Boundary, Municipal Boundary and Federal Urban Area Boundary information. Through continuing sponsorships from Oklahoma Tax Commission, Oklahoma Election Board, and Oklahoma Department of Commerce, OUCSA has been maintaining and updating various geospatial data for the state. OUCSA currently hosts several web GIS applications for local and state organizations (such as City of Tulsa, Oklahoma Boll Weevil Eradication Program, and Oklahoma Data Warehouse) and is planning to develop a state-wide GeoCIP© data model and web application in support for geospatial asset management in rural communities.

Oklahoma state agencies have numerous assets and broadband and GIS capabilities. These agencies are Oklahoma Department of Transportation, Oklahoma State Regents of Higher Education, Office of State Finance, Oklahoma Department of Homeland Security, Oklahoma Education Television Authority, Oklahoma Turnpike Authority and Grand River Dam Authority.

Regional Councils of Government which are formally constituted councils of municipal and county officials will provide E911 data and information on broadband in their service area.

An experienced mapping company will be recommended for selection by the Broadband Advisory Committee to collect the data needed to complete the map(s) required by NTIA.

Matching Funds

As stated above, the state intends to meet the 20% match from the previous and anticipated activities of the coalition parties. Additionally, the state, in the RFP for a mapping company, will require the company to describe how it can meet or contribute to the 20% match requirement. In the proposal, the company shall document its previous experience in securing and providing matching funds.

OKLAHOMA BROADBAND MAPPING PROJECT PROGRAM NARRATIVE

EXPEDIENT DATA DELIVERY

The State of Oklahoma will submit the grant application to NTIA on August 14, 2009.

On August 17, 2009, the state will begin preparation of a Request for Proposal (RFP) to select the experienced mapping company to collect, validate and prepare the mapping data required by NTIA in accordance with the NTIA technical requirements. The RFP will be issued on August 24, 2009, and the company's proposals will be due on September 4, 2009.

On or before September 10, 2009, the Advisory Committee will recommend the selection of a company and the state will award a contract for the mapping project.

By September 17, 2009, the state, through the Office of State Finance, will contract with the OUCSA to validate the mapping company's data.

Before September 30, 2009, the state will provide the mapping company with all the data collected by the state, access to the subscription service datasets of Oklahoma point or address range locations, and the contact information of the other data sources – state agencies, COGS, OGI, OUCSA, County Tax Assessors, Oklahoma Election Board, tribal governments, and the list of known broadband providers in Oklahoma.

On November 1, 2009, the state will provide all the preliminary data collected by the state and the mapping vendor to NTIA in the format required.

On February 1, 2010, the state will deliver preliminary map(s) that meet the NTIA requirements.

On March 1, 2010, a complete set of data collected and maps that meet the NTIA requirements will be delivered to NTIA.

Between March 2, and June 30, 2010, the mapping company, the OUCSA and the state will ensure the data submitted on March 1, 2010, is accurate to the best of our ability.

On September 1, 2010, the data previously submitted to NTIA will be updated and sent to NTIA.

For years two (2) through five (5) the data will be updated twice a year by OUCSA.

OKLAHOMA BROADBAND MAPPING PROJECT PROGRAM NARRATIVE

REPEATED DATA UPDATING

The state will task the OUCSA to update the data at least twice a year for at least five (5) years after the date of the initial collection. The data collected during the mapping project will be provided to the OUCSA to maintain in their existing data base or create a unique data base for the collected mapping data. The OUCSA shall keep all data secure and confidential and sign a NDA.

The state also will subscribe to a service that maintains complete datasets of Oklahoma point or address range locations for – household and business addresses, schools, hospitals, airports, public parks, recreational areas, etc. This service information will be used by OUCSA as well as other spatial data collected by OUCSA to update the data initially collected.

Requirements for data maintenance and updating will ensure data accuracy and currency in two ways. One is to correct data errors or provide completed data as recognized through data verification and validation. The other is to collect data of new telecommunication developments. As mentioned previously, the selected mapping company will be required to submit a list of contact information from broadband service providers along with the data they provide to the state. OUCSA will maintain the contact list and communicate with the representatives for data maintenance and update. Inquiries will be sent out monthly to state government agencies with telecommunication infrastructure and service providers on the contact list for updates. Inquiries will also be sent to Oklahoma Department of Commerce for a list of new business licenses provided to telecommunication service providers to whom OUCSA will contact for service area, technology type, and speed of communication. In addition, OUCSA team will check on-line broadband registry (such as online ISP service guide at <http://broadband.theispguide.com>) that provides area-code level and city-level lists of internet service providers with information about monthly fees, technology used, speed of communication, and service options.

Once corrected data or new data have been obtained, OUCSA will incorporate the data into the GIS databases for analysis of new broadband accessibility and production of new broadband service maps. The data integration and mapping processes will be compatible with the original mapping processes taken by the selected vendor for the production of maps and databases submitted to NTIA. The compatibility is important to assure consistency of data and products across the state. Nevertheless, improvements to mapping and map analysis will be made through lessons and experiences during the project period, to meet the goals of producing and maintaining up-to-date accurate broadband service maps. OUCSA will provide semiannual data updates to NTIA in support of the national broadband database and mapping applications.

PLANNING AND COLLABORATION

Oklahoma began planning for the expansion of broadband services by conducting meetings with stakeholders which included state agencies, service providers, local and

OKLAHOMA BROADBAND MAPPING PROJECT PROGRAM NARRATIVE

tribal government representatives, nongovernmental representatives, and the public. Additionally the state collaborated with state agencies and other entities listed in the **Data Section** of this application to collect known information on broadband as shown in **Exhibit 5 (attached separately)**. The state plans to obtain additional information needed to define the underserved and unserved areas from local and tribal governments and private sector providers. The required data will be collected by the state directly contacting these entities and using an independent mapping company as described in the **Approach Section** of this application.

BUDGET INFORMATION - Non-Construction Programs

OMB Approval No. 4040-0006
Expiration Date 07/30/2010

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. Broadband Mapping Year One: Data Collection, Validation, Mapping Data Submittal to NTIA		\$ 1,588,659.00	\$ 4,105,330.00	\$	\$	\$ 5,693,989.00
2. Broadband Mapping Year Two thru Year Five: Data Collection, Validation, Refresh of Data Submittals to NTIA		3,153,248.00				3,153,248.00
3. Planning		500,000.00				500,000.00
4.						
5. Totals		\$ 5,241,907.00	\$ 4,105,330.00	\$	\$	\$ 9,347,237.00

Standard Form 424A (Rev. 7-97)
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SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1)	(2)	(3)	(4)	
	Broadband Mapping Year One: Data Collection, Validation, Mapping Data Submittal to NTIA	Broadband Mapping Year Two thru Year Five: Data Collection, Validation, Refresh of Data Submittals to NTIA	Planning		
a. Personnel	\$ 183,004.00	\$ 591,404.00	\$ 150,000.00	\$	\$ 924,408.00
b. Fringe Benefits	49,752.00	141,360.00	50,000.00		241,112.00
c. Travel	800.00	3,200.00	50,000.00		54,000.00
d. Equipment	0.00				
e. Supplies	9,217.00	36,868.00	10,000.00		56,085.00
f. Contractual	1,052,000.00	1,628,000.00	150,000.00		2,830,000.00
g. Construction					
h. Other	171,000.00	360,000.00	90,000.00		621,000.00
i. Total Direct Charges (sum of 6a-6h)	1,465,773.00	2,760,832.00	500,000.00		\$ 4,726,605.00
j. Indirect Charges	122,886.00	392,416.00			\$ 515,302.00
k. TOTALS (sum of 6i and 6j)	\$ 1,588,659.00	\$ 3,153,248.00	\$ 500,000.00	\$	\$ 5,241,907.00
7. Program Income	\$	\$	\$	\$	\$

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SECTION C - NON-FEDERAL RESOURCES					
(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS	
8. Broadband Mapping Year One: Data Collection, Validation, Mapping Data Submittal to NTIA	\$ <input type="text"/>	\$ 4,105,330.00	\$ <input type="text"/>	\$ 4,105,330.00	
9. Broadband Mapping Year Two thru Year Five: Data Collection, Validation, Refresh of Data Submittals to NTIA	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
10. Planning	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
11. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
12. TOTAL (sum of lines 8-11)	\$ <input type="text"/>	\$ 4,105,330.00	\$ <input type="text"/>	\$ 4,105,330.00	
SECTION D - FORECASTED CASH NEEDS					
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$ 1,588,659.00	\$ 397,165.00	\$ 953,195.00	\$ 238,299.00	\$ <input type="text"/>
14. Non-Federal	\$ <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
15. TOTAL (sum of lines 13 and 14)	\$ 1,588,659.00	\$ 397,165.00	\$ 953,195.00	\$ 238,299.00	\$ <input type="text"/>
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. Broadband Mapping Year Two thru Year Five: Data Collection, Validation, Refresh of Data Submittals to NTIA	\$ 707,312.00	\$ 869,312.00	\$ 707,312.00	\$ 869,312.00	
17. Planning	500,000.00	0.00	0.00	0.00	
18. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
19. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
20. TOTAL (sum of lines 16 - 19)	\$ 1,207,312.00	\$ 869,312.00	\$ 707,312.00	\$ 869,312.00	
SECTION F - OTHER BUDGET INFORMATION					
21. Direct Charges: <input type="text"/>		22. Indirect Charges: <input type="text"/>			
23. Remarks: <input type="text"/>					

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OKLAHOMA BROADBAND MAPPING PROJECT

BUDGET NARRATIVE

OVERVIEW

The Oklahoma Broadband Mapping Project's goal is to collect and provide accurate and sustainable data for mapping broadband inventory and to identify unserved and underserved areas of the state.

The state of Oklahoma is requesting \$4,741,907 in funding from NTIA to develop, update and provide internet access information as part of a statewide broadband mapping project. An additional \$500,000 is requested for broadband planning funds to strengthen the state's strategic focus on broadband development, funding and implementation. The state is required to provide 20% in matching funds. Oklahoma's match will include the documented costs (\$4,105,330) of developing the state's current map of assets in addition to documented personnel costs dedicated to this project.

The proposed budget will achieve the following:

- ✓ Year One will include data collection, verification, and mapping, and the development and hosting of a web-mapping application. Oklahoma will acquire a complete address database with two refreshes of this database during the five year project. Oklahoma will employ a third party to collect the required information from the providers, produce the maps and format all data for submission to NTIA.

- ✓ Years Two through Five will include bi-annual mapping data updates, re-verification, web-mapping application updates and hosting, and acquisition of Point Location Information for every address and parcel in each of Oklahoma's 77 counties.

BUDGET

Year One:

Commercial Data	\$ 162,000
Mapping Company	\$1,000,000
Web Mapping Application Development	\$ 50,000
Web Hosting for Mapping Application	\$ 2,000
OUCSA Contract for Mapping Data Validation	\$ 374,659
Year One Total:	\$1,588,659

Year Two:

Counties Project – Point Location Information	\$ 385,000
OU Contract for Bi-Annual Updates/Validation	\$ 300,312
Web Mapping Application Updates	\$ 20,000
Web Hosting for Mapping Application	\$ 2,000
Year Two Total:	\$ 707,312

**OKLAHOMA BROADBAND MAPPING PROJECT
BUDGET NARRATIVE**

Year Three:

Commercial Data Refresh	\$ 162,000
Counties Project – Point Location Information	\$ 385,000
OU Contract for Bi-Annual Updates/Validation	\$ 300,312
Web Mapping Application Updates	\$ 20,000
Web Hosting for Mapping Application	\$ 2,000
Year Three Total:	\$ 869,312

Year Four:

Counties Project – Point Location Information	\$ 385,000
OU Contract for Bi-Annual Updates/Validation	\$ 300,312
Web Mapping Application Updates	\$ 20,000
Web Hosting for Mapping Application	\$ 2,000
Year Four Total:	\$ 707,312

Year Five:

Commercial Data Refresh	\$ 162,000
Counties Project – Point Location Information	\$ 385,000
OU Contract for Bi-Annual Updates/Validation	\$ 300,312
Web Mapping Application Updates	\$ 20,000
Web Hosting for Mapping Application	\$ 2,000
Year Five Total:	\$ 869,312

Total Five Year Budget **\$4,741,907**

Planning **\$ 500,000**

Total Cost for Five Year Project **\$5,241,907**

BUDGET NARRATIVE

Year One acquisition of complete Oklahoma household database from commercial company initially and for each refresh--\$162,000.

Commercial datasets are available to meet the primary goal of NTIA at the census block and address level. Currently, there are two national companies that have complete datasets for Oklahoma. These datasets provide point or address range locations for addresses, schools, hospitals, airports, public parks, recreational areas, and an abundance of additional vital information. These companies, NavTeq Enterprise America and TeleAtlas, have provided quotes for enterprise licenses to Oklahoma which includes all attributes necessary for this mapping initiative.

OKLAHOMA BROADBAND MAPPING PROJECT BUDGET NARRATIVE

Year One development of initial mapping data and submittal to NTIA by third party--\$1,000,000.

This is the estimated contracted cost for a third party to work with the state to create the State Level NDA, to collect the initial data from the service providers, convert the data to mapped addresses, verify the data and submit it to NTIA.

Year One development of Web Mapping Application--\$50,000.

This is the cost to develop an interactive web mapping application that will allow users to either pick a location on a map or enter an address to see what broadband options are available.

Web Hosting for Mapping Application for five years--\$10,000.

This is the cost to host the application on the OK.gov servers for five years.

Year One independent validation of mapping data--\$374,659.

This is the cost for the University of Oklahoma – Center for Spatial Analysis (OUCSA) to independently verify the mapping data collected by the third party mapping firm. This figure includes all personnel, supplies, travel and other costs incurred by OUCSA.

Years Two through Five Counties Project – Point Location Information--\$1,540,000.

This is the cost for each of the 77 counties to provide personnel, supplies and travel to gather the point location information for every address and parcel. By implementing this method to collect the point/address information, the need for commercial data will be eliminated at the end of the 5 year project. The Point Location Information is an important need for Oklahoma and is critical to the success of this project.

Years Two through Five Bi-Annual updates and validation of Broadband Mapping data--\$1,201,248.

This is the cost for the bi-annual refresh and independent verification of mapping data by OUCSA. This includes the cost of two refreshes of commercial firm address data in year three and year five.

Years Two through Five Web Mapping Application maintenance and upgrades--\$80,000.

This is the cost to maintain the Web Mapping application and includes bi-annual data updates and upgrades to newer versions of the Web Mapping software.



Brad Henry
Governor

August 14, 2009

Larry Strickling, Administrator
National Telecommunications
and Information Administration
1401 Constitution Avenue, Northwest
Washington, District of Columbia 20230

RE: Oklahoma Broadband Mapping Grant

Dear Administrator Strickling:

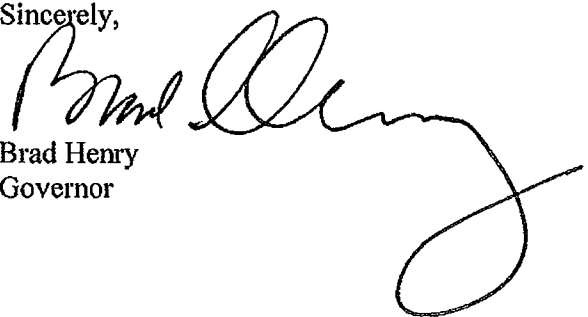
Pursuant to the National Telecommunications and Information Administration (NTIA) Notice of Fund Availability (NOFA) for the State Broadband Mapping Grant, this letter serves as the official statement of designation for the State of Oklahoma.

The Office of State Finance (OSF) is the authorized designee for mapping broadband availability in Oklahoma. OSF is the single eligible entity in the State of Oklahoma to receive federal grant funding for broadband mapping under the American Recovery and Reinvestment Act.

The opportunity for Oklahoma to continue to expand broadband throughout our state is an important tool for us to deliver public services and to promote job growth and development, especially in areas that are unserved or under served.

Please do not hesitate to contact me should you have questions, comments or require additional information. Thank you for your attention to this matter.

Sincerely,


Brad Henry
Governor

cc: Michael Clingman
Joe Fleckinger
M. Susan Savage

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

LOBBYING

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

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

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

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

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

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

*** NAME OF APPLICANT**

State of Oklahoma

*** AWARD NUMBER**

0660-ZA29

*** PROJECT NAME**

Oklahoma Broadband Mapping Project

Prefix:

Mr.

*** First Name:**

Richard

Middle Name:*** Last Name:**

Clark

Suffix:*** Title:** Operations and Applications Manager*** SIGNATURE:**

Richard Clark

*** DATE:**

08/14/2009

DISCLOSURE OF LOBBYING ACTIVITIES

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

Approved by OMB
0348-0046

1. * Type of Federal Action: <input type="checkbox"/> a. contract <input checked="" type="checkbox"/> b. grant <input type="checkbox"/> c. cooperative agreement <input type="checkbox"/> d. loan <input type="checkbox"/> e. loan guarantee <input type="checkbox"/> f. loan insurance	2. * Status of Federal Action: <input type="checkbox"/> a. bid/offer/application <input checked="" type="checkbox"/> b. initial award <input type="checkbox"/> c. post-award	3. * Report Type: <input checked="" type="checkbox"/> a. initial filing <input type="checkbox"/> b. material change
4. Name and Address of Reporting Entity: <input checked="" type="checkbox"/> Prime <input type="checkbox"/> SubAwardee * Name: <input type="text" value="State of Oklahoma"/> * Street 1: <input type="text" value="2300 N Lincoln Boulevard"/> Street 2: <input type="text"/> * City: <input type="text" value="Oklahoma City"/> State: <input type="text" value="OK: Oklahoma"/> Zip: <input type="text" value="73105-4801"/> Congressional District, if known: <input type="text" value="OK-005"/>		
5. If Reporting Entity in No.4 is Subawardee, Enter Name and Address of Prime: <div style="border: 1px solid black; height: 100px;"></div>		
6. * Federal Department/Agency: <input type="text" value="Department of Commerce"/>	7. * Federal Program Name/Description: <input type="text"/> CFDA Number, if applicable: <input type="text"/>	
8. Federal Action Number, if known: <input type="text"/>	9. Award Amount, if known: \$ <input type="text"/>	
10. a. Name and Address of Lobbying Registrant: Prefix: <input type="text"/> * First Name: <input type="text" value="None"/> Middle Name: <input type="text"/> * Last Name: <input type="text" value="None"/> Suffix: <input type="text"/> * Street 1: <input type="text" value="None"/> Street 2: <input type="text"/> * City: <input type="text" value="None"/> State: <input type="text"/> Zip: <input type="text"/>		
b. Individual Performing Services (including address if different from No. 10a) Prefix: <input type="text"/> * First Name: <input type="text" value="None"/> Middle Name: <input type="text"/> * Last Name: <input type="text" value="None"/> Suffix: <input type="text"/> * Street 1: <input type="text" value="None"/> Street 2: <input type="text"/> * City: <input type="text" value="None"/> State: <input type="text"/> Zip: <input type="text"/>		
11. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when the transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.		
* Signature: <input type="text" value="Richard Clark"/> * Name: Prefix: <input type="text" value="Mr."/> * First Name: <input type="text" value="Richard"/> Middle Name: <input type="text"/> * Last Name: <input type="text" value="Clark"/> Suffix: <input type="text"/> Title: <input type="text" value="Operations and Applications Manager"/> Telephone No.: <input type="text" value="405-522-4971"/> Date: <input type="text" value="08/14/2009"/>		
Federal Use Only:		Authorized for Local Reproduction Standard Form - LLL (Rev. 7-97)

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.

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

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal 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 initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
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 VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
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.

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 subagreements.
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.
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 floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
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.
13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).
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.
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.
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.
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."
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

<p>* SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL</p> <p>Richard Clark</p>	<p>* TITLE</p> <p>Operations and Applications Manager</p>
<p>* APPLICANT ORGANIZATION</p> <p>State of Oklahoma</p>	<p>* DATE SUBMITTED</p> <p>08/14/2009</p>

Standard Form 424B (Rev. 7-97) Back