

Application for Federal Assistance SF-424		Version 02	
* 1. Type of Submission: <input type="checkbox"/> Preapplication <input type="checkbox"/> Application <input checked="" type="checkbox"/> Changed/Corrected Application		* 2. Type of Application: <input type="checkbox"/> New <input type="checkbox"/> Continuation <input checked="" type="checkbox"/> Revision <i>6/19/13</i>	* If Revision, select appropriate letter(s): B: Decrease Award * Other (Specify)
* 3. Date Received: 03/19/2013	4. Applicant Identifier:		
5a. Federal Entity Identifier:	* 5b. Federal Award Identifier:		
State Use Only:			
6. Date Received by State:	7. State Application Identifier:		
8. APPLICANT INFORMATION:			
* a. Legal Name: State of Wyoming - Dept of Enterprise Technology Services			
* b. Employer/Taxpayer Identification Number (EIN/TIN): 83-0208667		* c. Organizational DUNS: 078342844	
d. Address:			
* Street1:	2001 Capitol Ave.		
Street2:			
* City:	Cheyenne		
County:			
* State:	WY: Wyoming		
Province:			
* Country:	USA: UNITED STATES		
* Zip / Postal Code:	82002		
e. Organizational Unit:			
Department Name:	Division Name:		
Enterprise Technology Services			
f. Name and contact information of person to be contacted on matters involving this application:			
Prefix:	Mr.	* First Name:	Troy
Middle Name:			
* Last Name:	Babbitt		
Suffix:			
Title:	Broadband Enterprise Achitect		
Organizational Affiliation:			
* Telephone Number:	307-777-5014	Fax Number:	
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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:**

National Telecommunications and Information Admini

11. Catalog of Federal Domestic Assistance Number:

11.549

CFDA Title:

State and Local Implementation Grant Program

*** 12. Funding Opportunity Number:**

2013-NTIA-SLIGP-01

* Title:

State and Local Implementation Grant Program (SLIGP)

13. Competition Identification Number:

2013-NTIA-SLIGP-01

Title:

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

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

*Revised 06/18/2013 FirstNet - State of Wyoming - State and Local Implementation Grant Program (SLIGP)

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.

17. Proposed Project:

* a. Start Date:

* b. End Date:

18. Estimated Funding (\$):

* a. Federal	<input type="text" value="1,350,593.00"/>
* b. Applicant	<input type="text" value="0.00"/>
* c. State	<input type="text" value="337,648.00"/>
* 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="1,688,241.00"/>

* 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:

State of Wyoming



Public Safety Broadband Application for State and Local Implementation Grant Program (SLIGP)

March 2013

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Executive Summary

The State of Wyoming submits this application in response to the National Telecommunications and Information Administration (NTIA) for the State and Local Implementation Grant Program (SLIGP). On February 6th, NTIA issued a Federal Funding Opportunity (FFO) describing the requirements for the SLIGP grants to assist state, local, and tribal governments with planning for a Nationwide Public Safety Broadband Network (NPSBN). This grant program is designed to fund initial planning and assessment activities for the NPSBN in coordination with the First Responder Network Authority (FirstNet). This application response specifically addresses the 15 questions posed by NTIA for this initiative.

Safety and security are vital to America's prosperity. The State of Wyoming has established a Broadband Enterprise Architect, as the focal point for the state's efforts to support FirstNet and the NPSBN initiative. The Broadband Enterprise Architect serves directly under the State Chief Information Officer (CIO). The roll of this position oversees the overall view of all Broadband initiatives occurring across the State of Wyoming. Broadband can help public safety personnel prevent emergencies and respond swiftly when they occur. Broadband can also provide the public with new ways of calling for help and receiving emergency information.

Consistent with the requirements of the Middle Class Tax Relief and Jobs Creation Act of 2012 (the "Act"), the State of Wyoming has also established a Public Safety Workgroup to assist in the state's efforts for cooperation with FirstNet, NTIA, and the Federal Communications Commission (FCC), to create the national interoperable NPSBN. This Workgroup contains representation from the State Chief Information Officer (CIO), Wyoming's Public Safety Communications Commission (PSCC), Wyoming Department of Transportation (WYDOT), Office of Homeland Security, Emergency Responders, Tribal Government, Statewide Interoperability Coordinator (SWIC) and many others.

- To allow first responders anywhere in the Nation to send and receive mission critical video and data communications, to save lives, reduce injuries, and prevent acts of crime and terror. Mission critical voice service will always be included and considered as future capabilities, as quality of service is advanced.
- To ensure all Americans can access emergency services quickly and send and receive vital information, regardless of how it is transmitted.
- To revolutionize the way citizens are notified about emergencies and disasters so they receive information vital to their safety.
- To reduce threats to e-commerce and other Internet-based applications by ensuring the security of the Nation's broadband networks.

The prominence of broadband as a public policy issue was reinforced with the Federal Communication Commission's (FCC) release of a National Broadband Plan (NBP) in March of 2010. The NBP is a comprehensive plan acknowledging and documenting the importance of broadband to the Nation and focuses on establishing broadband policy, standards, and ambitious goals including a reallocation of the Universal Service Fund to broadband infrastructure. The NBP also proposes two goals for broadband access to be reached by 2020: a "universalization target of 4Mbps (megabits per second) download and 1Mbps upload," as well as a goal that "100 million U.S. homes should have affordable access to actual download speeds of at least 100Mbps and actual upload speeds of at least 50Mbps."

The Broadband Enterprise Architect has been designated as the State Authorized Organization Representative (AOR) with respect to federal grant funds associated with the State and Local Implementation Grant Program (SLIGP) and the Architect will coordinate with Wyoming's Public Safety Communications Commission (PSCC) the use and application of grant funds, with guidance, direction and final decisions from the State Chief Information Officer.

Wyoming is in the mountain region of the Western United States. Wyoming is the 10th largest State in size, but is the least populous of the 50 US States. The western two thirds of the State is covered mostly with the mountain ranges and rangelands of the Eastern Rocky Mountains, while the eastern third of the State is high elevation prairie known as the High Plains. Cheyenne is the capital and the most populous city of Wyoming with a population of nearly 60,000 people within its city proper.

Wyoming is bordered on the north by Montana, on the east by South Dakota and Nebraska, on the south by Colorado, on the southwest by Utah, and on the west by Idaho. As the tenth largest State in the US, Wyoming's total area, containing 97,814 square miles and is made up of 23 counties.

More than 48% of the land in Wyoming is owned by the US government, leading Wyoming to rank sixth in the US in total acres and fifth in percentage of a State's land owned by the Federal government. This amounts to about 30,099,430 acres owned and managed by the US government. The State government owns an additional 6% of all Wyoming lands, or another 3,864,800 acres.

The vast majority of this government land is managed by the Bureau of Land Management and US Forest Service in numerous National Forests, a National Grassland, and a number of vast swaths of public land, in addition to the F.E. Warren Air Force Base in Cheyenne.

The US Census Bureau estimates that the population of Wyoming was 568,158 on July 1, 2011, a 0.80% increase since the 2010 Census. The center of population of Wyoming is located in Natrona County. Wyoming is the least populous (total number of people) State in the US, and has the second lowest population density, behind Alaska. It is the only State with a lower population than Washington, DC.

Supporting the LTE leadership role assigned to the State of Wyoming will come from the State Chief Information Officer, Broadband Enterprise Architect, Public Safety Communications Commission (PSCC),

Office of Homeland Security, Statewide Interoperability Coordinator (SWIC), Wyoming Department of Transportation (WYDOT), Emergency Responders, Tribal Government and others. LinkWyoming serves as the current State Broadband Initiative (SBI) designated entity, of which the Broadband Enterprise Architect is a working partner.

The national NPSBN initiative presents significant challenges to the states over a wide range of issues, including fiscal (e.g., capital, operational, and sustainability cost/benefit considerations), procedural (e.g., public/private partnerships, cross-government entity cooperation, involvement of public utilities), technical (e.g., ensuring integrated and seamless operational access for end users across diverse platforms), and informational (e.g., determining how best to meet the needs of public safety personnel and how to educate them about the capabilities of the NPSBN) concerns. These challenges reach far beyond the typical public safety and telecommunications issues, and will require coordination among federal, regional, state, and local governmental interests, as well as tribal authorities, national guard and public utilities, including private sector commercial communications interests and Federal agencies.

The Wyoming Public Safety Workgroup will work to refine the goals and priorities for governance, standard operating procedures, technology, training, information gathering and outreach for Wyoming's NPSBN efforts. While the NPSBN's first focus is serving the needs of public safety, other State officials, agencies, and non-public safety groups (e.g., the State Chief Information Officer, policy leaders, education and social services programs, critical infrastructure such as utilities, and the Wyoming Guard) will assist FirstNet in the information collection process given the value of the NPSBN as a broader technology platform serving the State.

In addition, the State of Wyoming is strongly supporting regional coordination efforts across Western states to address interoperability issues that extend beyond State lines. Consistent with its approach to previous NTIA filings, Wyoming recognizes the importance of collaborating with neighboring states early in the NPSBN planning process to develop a regional strategy that will integrate into the requirements set forth by FirstNet. Wyoming worked with the states of Idaho, Montana, Oregon, South Dakota, Utah, and Nevada in coordinating a "Joint" collaborative filing in response to the NTIA's Notice of Inquiry ("NOI"). The NOI addressed public comment on (1) the conceptual network architecture presentation made at the FirstNet Board of Directors ("Board") meeting held on September 25, 2012, (2) the potential framework for developing applications for public safety use discussed at that meeting, and (3) other network design and business plan considerations. This regional group of western states continue to meet and grow to include other states as they discuss and confer on plans for joint meetings and communications with FirstNet. Western states have long supported each other in addressing public safety demands in the region and continue this valued and strategic relationship as the National NPSBN is deployed. Wyoming foresees a tremendous advantage in working relationships with its neighboring states.

The success of any large, complex technology system rests on the people, both leadership from the top and ownership and how to use the system by the users. Those designing the system must understand the needs of those who will use it, while potential users must be made aware of the capabilities of the system(s),

understand its purpose, and be trained in its operation. Wyoming plans to use data collection tools, assessment tools, meetings, conferences and training to work with users across the State and region as part of the education and outreach program to keep leaders and stakeholders informed and users knowledgeable. Information will be disseminated from the Wyoming Public Safety Workgroup leaders, down through organizational charts and comprehensive contact lists.

Wyoming will look to leverage the installed assets of the state's primary radio network entitled WyoLink. WyoLink is a wireless network that is the largest interconnected land mobile radio system in the State that continues to connect rural communities. This system must now evolve still further in light of the increasing importance of data applications and the development of broadband radio technologies.

Wyoming has engaged a diverse group of interested parties, to assist FirstNet, with information in their development of a comprehensive plan, in addressing this vital public safety objective. With this cooperation, Wyoming has created efficient collaboration to address the nationwide interoperable NPSBN. To accomplish these goals, Wyoming will need to (1) arrange and engage in a series of planning meetings with State agencies, local and tribal stakeholders, and regional partners; (2) modify and enhance its existing Statewide Communication Interoperability Plan (SCIP) and associated governance structures; (3) implement communications, education, and outreach activities with state, local, tribal, and regional stakeholders; (4) develop standardized agreements to facilitate access to and use of existing infrastructure including the identification of statutory authorizations necessary to implement the Act and work across State boundaries and support the development of complex public private partnerships; and (5) identify and hire qualified resources and consultants required for these activities. In addition to planning, Wyoming will need to conduct an inventory of assets available throughout the State to support NPSBN deployment, once FirstNet has determined the data collection policies for that effort.

Wyoming recognizes the importance of developing a national, interoperable NPSBN and submits this NTIA application to take the first step with a comprehensive planning and assessment effort, working towards the goal of establishing the necessary telecommunications infrastructure needed by the first responders in all states across the country. FirstNet will enable additional resources to be committed to enhance and expand the capabilities within Wyoming to better serve the citizens of Wyoming and simultaneously serve the greater good of our nation.

Supplemental Narrative Requirements

Question 1. Existing Governance Body

Question

- a. Describe the organizational structure and membership of the existing Statewide Interoperability Governing Body (SIGB), or its equivalent, that is responsible for public safety communications in the State.

At the encouragement of Wyoming's public safety community, the Wyoming Legislature recognized a need for a comprehensive and coordinated statewide emergency communications network and established Wyoming's Public Safety Communications Commission (PSCC) effective July 1, 2004 through W.S. 9-2-1101. The PSCC is responsible for providing policy level direction related to planning, designing and implementing guidelines, best practices and standard approaches to address Wyoming's public safety communications interoperability issues.

The PSCC is comprised of representatives appointed by the Governor from the following public safety agencies, professional associations, and State departments:

- Wyoming Police Chief's Association
- Wyoming Sheriff's Association
- Wyoming Division of Criminal Investigation, Office of the Attorney General
- Wyoming Game and Fish Department
- Wyoming Department of Transportation
- Wyoming Livestock Board
- Wyoming State Parks and Cultural Resources
- Wyoming Fire Chief's Association
- Wyoming State Fire Marshal
- Wyoming Office of Homeland Security
- The public at large
 - Wyoming Ambulance and Emergency Medical Services Association
 - Municipal Government or a municipal government association
 - County Government or county government association
 - Wyoming Department of Health
 - Tribal Government or tribal government association
 - Federal Government or federal government association

Wyoming Statute §9-2-1104 defines the Commission powers and duties:

- (a) The commission shall:

(i) Work with the department of enterprise technology services, the department of homeland security and the department of transportation in an advisory capacity to promote the development, improvement and efficiency of public safety communications systems in the state;

(ii) Report in writing each year in October to the governor concerning any problems related to the installation, operation and maintenance of the system and shall make any recommendations it deems appropriate as a part of the report;

(iii) Submit a plan for statewide system networking to the department of enterprise technology services for inclusion in the statewide telecommunications plan developed pursuant to W.S. 9-2-2906(g);

(iv) In cooperation with participating federal agencies, establish and assess user fees upon any federal law enforcement agency electing to use and participate in the system;

(v) Promulgate necessary rules and regulations governing system operation and participation and upon failure to comply with adopted rules and regulations, may suspend system use and participation by any participating and noncomplying public safety agency or private entity;

(vi) Determine the participation of public safety agencies and private entities in the wireless communications network.

Question

b. Describe the SIGB's authority to make decisions regarding public safety communications and how these decisions are implemented.

As stated in the answer to question 1a, Wyoming Statute §9-2-1104 provides the authority for the Wyoming Public Safety Communications Commission (PSCC) to make decisions regarding public safety communications. The Governor has authorized the PSCC as the Wyoming Statewide Interoperability Governing Body (SIGB) for the Nationwide Public Safety Broadband Network (NPSBN).

The PSCC makes recommendations regarding public safety communications after consultation with members, external experts, stakeholders, and interested parties. These recommendations are forwarded for review and transmission to the Governor.

Question

c. Describe how the State will leverage its existing SIGB, or its equivalent, to coordinate the implementation of the Public Safety Broadband Network (NPSBN) in the State.

The PSCC created a Public Safety Mobile Broadband Workgroup to review and develop a public safety broadband plan for Wyoming and to assist the State Chief information Officer (CIO) and the Department

of Enterprise Technology Services (ETS) in the development of a State broadband plan and to prepare for the NPSBN. The Broadband Workgroup consists of twenty six (26) members: Wyoming Department of Enterprise Technology Services – State Broadband Enterprise Architect; Statewide Interoperable Coordinator (SWIC); Wyoming Office of Homeland Security; Wyoming Department of Transportation – Telecommunications, Highway Patrol, Information Technology Services; Department of Health – Office of Emergency Medical Services; Wyoming Association of Municipalities; Wyoming County Commissioners Association; Police Departments; County Sheriff’s Offices; Fire Departments; Local Information Technology Offices; Dispatch Centers/Wyoming Association of Public Safety Officials (APCO); Federal Bureau of Investigation; Tribal – two tribes; Local Public Works; Wyoming Attorney General’s Office; Division of Criminal Investigations; County Emergency Management/Homeland Security Coordinator; and Wyoming Public Service Commission. Wireless vendors will be included in the Workgroup as subject matter experts. Five of the workgroup members are PSCC Commissioners.

Question

d. How does the State plan to expand its existing SIGB to include representatives with an understanding of wireless broadband and Long Term Evolution (LTE) technology in order to facilitate its consultations with FirstNet?

As discussed in the answer to question 1c, Wyoming created a Public Safety Mobile Broadband Workgroup to review and develop a State plan. This group will be instrumental in supporting FirstNet and designing a plan by which the State can implement. This Workgroup will seek outside technical expertise to expand its knowledge base in wireless broadband and LTE technology. This Workgroup will collaborate with neighboring western states that have gained experience and knowledge within their own states. The State will also leverage the data and information gained through its participation in the LinkWyoming Broadband Technology Opportunity Program (BTOP). When the BTOP grants were first released, the State partnered with LinkWyoming to collect and map all existing broadband service coverage in the State under NTIA’s State Broadband Initiative (SBI) grant program. The Department of Enterprise Technology Services has also now begun to map infrastructure to provide further mapping support.

Question

e. Does the State currently dedicate sufficient financial resources to adequately support the SIGB? Does the State intend to invest funds received from SLIGP to financially support the SIGB? If so, provide the amount the State expects to request and describe the SIGB functions that these funds will support.

The PSCC and SWIC are currently funded by the Wyoming Legislature through State General Fund. The PSCC budget has been adequately supporting the functions of PSCC and this funding will be used as a part of Wyoming’s match to the State and Local Implementation Grant Program (SLIGP). The SLIGP funds

will be used to support the Broadband Workgroup activities in the outreach, education, planning, training, and administration.

Question 2. Statewide Communications Interoperability Plan (SCIP)

- a. Are there existing strategic goals and initiatives in your SCIP focused on public safety wireless broadband? If so, what are they?

The Wyoming Statewide Communications Interoperability Plan (SCIP) does not currently address public safety wireless broadband. One of the Broadband Workgroup goals is to complete a Public Safety Broadband Planning Document using the template provided by the Office of Homeland Security-Office of Emergency Communications (DHS-OEC). The Public Safety Broadband Planning Document will be added to the SCIP so that the revised SCIP is inclusive of Public Safety Land Mobile Radio and Public Safety Broadband.

The Broadband Workgroup was created in March 2012 and took part in creating a response to the National Governor's Association request for information. The states of Idaho, Montana, Nevada, Oregon, South Dakota, Utah and Wyoming submitted joint comments in response to the Notice of Inquiry issued by the National Telecommunications and Information Administration (NTIA) on behalf of FirstNet.

The Broadband Workgroup has participated in a Broadband Planning Workshop provided by the DHS-OEC Technical Assistance program. The Broadband Planning Workshop provided education and assistance on the development of the Broadband Plan. The workgroup has been monitoring the development of FirstNet and is involved in the development of the SLIGP grant application.

Question

- b. Describe how the State has engaged local governments and tribal nations, if applicable, in public safety broadband planning activities that have been completed to date.

The Broadband Workgroup includes representation from the Wyoming Association of Municipalities, Wyoming County Commissioners Association, Northern Arapaho Tribe and Eastern Shoshone Tribe. These representatives have been involved in the Broadband Workgroup meetings and broadband workshop. These representatives will be assisting with the outreach to the counties, cities and towns, and tribal within the Wind River Indian Reservation.

Question

- c. Does the State intend to use SLIGP funding to support efforts to update the SCIP by adding public safety wireless broadband strategic goals and initiatives? If so, provide the amount the State expects to request and describe the activities that these funds will support.

Wyoming will use SLIGP funding to support the development of the Public Safety Broadband Planning Document for inclusion into the SCIP. The SLIGP funds will be used to hold outreach and educational meetings in each of the 23 Wyoming counties and two tribes. The Governor's Tribal Liaisons will also assist Wyoming with the Tribal relations during all phases of the planning period.

Question 3. State-Level Involvement

Question

- a. What is the status of the Statewide Interoperability Coordinator (SWIC) for your State? Does this person work full-time in the SWIC capacity? How will this person be involved with SLIGP?

The Statewide Interoperable Coordinator (SWIC) is a full-time employee of the State and the duties include the administrative support for the Public Safety Communications Commission. The Wyoming SWIC is involved in the National Council of Statewide Interoperable Coordinators (NCSWIC) and is a member of the SAFECOM Emergency Response Committee. The SWIC is a representative on the PSCC Broadband Workgroup and provides the administrative support to the workgroup.

Question

- b. How will the State's Chief Information Officer/Chief Technology Officer be involved with SLIGP and with activities related to the implementation of the nationwide public safety broadband network?

The State of Wyoming's Chief Information Officer (CIO) will play a key role in the leadership and guidance of the Broadband Enterprise Architect to work with FirstNet in collecting data for the nationwide public safety broadband network. Information technology, systems, networks and designs have become so important that the State CIO is the key contributor in formulating strategic goals for the State.

The Broadband Enterprise Architect, single point to contact for FirstNet, answers directly to the State CIO, within the Wyoming Department of Enterprise Technology Services.

The Public Safety Broadband Workgroup will assist with the development of the Statewide Public Safety Broadband plan and give recommendations to the State CIO. These representatives provide public safety, information technology, communication systems or legal knowledge and experiences to the workgroup and the development of the statewide plan.

Question

- c. What other State-level organizations or agencies will be involved with SLIGP?

As stated in the answer to question 1c, the PSCC created a Public Safety Mobile Broadband Workgroup to review and develop a public safety broadband plan for Wyoming and to assist the State Chief information Officer (CIO) and the Department of Enterprise Technology Services (ETS) in the development of State broadband plan and prepare for the NPSBN. The Broadband Workgroup consists of twenty six (26) members representing:

- Wyoming Department of Enterprise Technology Services – Broadband Enterprise Architect
- Statewide Interoperable Coordinator (SWIC)
- Wyoming Office of Homeland Security
- Wyoming Department of Transportation – Telecommunications, Highway Patrol, Intelligent Transportation Systems (ITS)
- Wyoming Department of Health – Office of Emergency Medical Services
- Wyoming Association of Municipalities
- Wyoming County Commissioners Association
- Police Departments
- County Sheriff's Offices
- Fire Departments
- Local Information Technology Offices
- Dispatch Centers/Wyoming Association of Public Safety Officials (APCO)
- Federal Bureau of Investigation
- Tribal – two tribes
- Local Public Works
- Wyoming Attorney General's Office
- Division of Criminal Investigations
- County Emergency Management/Homeland Security Coordinator
- Wyoming Public Service Commission.
- Wireless vendors will be included in the Workgroup as subject matter experts.

Five of the workgroup members are PSCC Commissioners.

d. What are the specific staffing resources the State requires to effectively implement the consultation process with the First Responder Network Authority (FirstNet) and perform the requirements of SLIGP? If the application requests funding for additional staffing, provide the amount the State expects to request and describe the positions these funds will support.

The primary initial resources to support the SLIGP are the Wyoming Broadband Enterprise Architect and the Statewide Interoperable Coordinator. Project management and subject matter expertise are resources to be contracted as additional staff for the FirstNet consultation and perform the requirements of the SLIGP. The Public Safety Workgroup will be instrumental in the planning stages of the SLIGP.

Additional organizations and assignment of responsibilities in support of the SLIGP will be addressed as requirements evolve. These could include designated program manager, administrative support, grant preparation and support, coordination of contracted services and intergovernmental communication.

Question

e. How is the State engaging private industry and secondary users (e.g., utilities)?

Through the Public Service Commission, contact will be made to the utilities and private industry to engage in the planning process. Critical infrastructure has been and will continue to be priority during the planning phase of projects like the NPSBN. The PSCC Broadband Workgroup has already made contact with and has invited the wireless providers to serve as subject matter experts for the planning and development of the NPSBN. The Wyoming BTOP grant is providing for the mapping and planning for statewide broadband plan, which includes public safety. The wireless and communication providers have been engaged in the BTOP planning and mapping process and will be leveraged to assist with the SLIGP requirements.

Wireless broadband for use in public safety is becoming more prominent within the emergency response community. The State of Wyoming expects to engage directly with wired and wireless service providers, utilities and other prospective entities within the State. Broadband presents several attractive capabilities—many of which are already in use on commercial networks. Firefighters using wireless broadband can download blueprints for a burning building while in the field, a police officer can receive surveillance video feeds while on-scene, and emergency medical service (EMS) personnel are able to remotely access or transmit medical information. Depending on the network's speed, some on-scene personnel can transmit live video feeds or pictures to their incident commander, enhancing situational awareness. Each of these capabilities significantly improves emergency communications and levels of response.

Simply put, broadband refers to advanced communications systems capable of providing high-speed transmission of data, voice, and video over the Internet and other networks. Wireless broadband

applications have the potential to increase emergency preparedness and response capabilities, thereby transforming the way emergency responders perform their jobs.

The FCC, in its Sixth Broadband Deployment Report released on July 20, 2010, defines broadband as an access speed of four megabits per second (Mbps) for downloads and one Mbps for uploads from a subscriber device.

During the transition period from traditional land mobile radio (LMR) systems to wireless broadband services, public safety will begin building out a dedicated public safety wireless broadband network; public safety organizations will begin to transition from commercial broadband services to the public safety dedicated network. Public safety broadband networks must accomplish a number of objectives. Specifically, the network must: (1) deliver broadband communications that meet the appropriate public safety grade operational requirements for reliability and security; (2) secure the trust of public safety agencies that will migrate traffic to this new network; (3) enable seamless communications between public safety agencies and jurisdictions; (4) provide a platform for a wide range of affordable equipment and applications; and (5) leverage commercial platforms and technologies to take advantage of innovation on a cost-effective basis.

Question 4. Coordination with Local Government Jurisdictions

Question

- a. Describe the local government jurisdictional structure (e.g., municipalities, cities, counties, townships, parishes) located within the boundaries of the State, Commonwealth, Territory, or District applying for a grant. How many of these local jurisdictions exist within the State's boundaries?

The jurisdictional structure for local governments in Wyoming consists of twenty three (23) counties and ninety nine (99) incorporated cities and towns. There are also unincorporated towns in Wyoming, which fall under the jurisdiction of the county. The counties and incorporated cities and towns are the statutory political subdivisions in Wyoming. All of the counties and incorporated cities and towns have their own elected governance bodies.

The counties (Wyoming County Commissioners Association-WCCA) and municipalities (Wyoming Association of Municipalities-WAM) are represented on the statewide Interoperability Governance Board (PSCC) and on the PSCC Broadband Workgroup. As representatives to the PSCC and PSCC Broadband Workgroup the counties and municipalities will be involved in the planning, outreach, education, data collection and approval of the Wyoming Broadband Plan and with the consultation with FirstNet.

When the State of Wyoming commissioned and completed the Public Safety Mobile Communication Plan (PSMC) in 2003, the counties and cities were represented on the Steering Committee. Wyoming will be using the lessons learned from the PSMC planning to improve upon the coordination with the county and

municipal governments. The challenges with the local governments includes not having the direct costs to the local governments, lack of education, meeting scheduling, and providing meetings locally.

After discussion with the County and Municipal representatives on the Broadband Workgroup and meeting with the president of the County Commissioners Association and the Executive Director of the Wyoming Association of Municipalities a strategy for outreach was developed. This strategy is to work through the County Commissioners and municipal elected officials to create a schedule of meetings in each county. The first round of meetings will include outreach and education on FirstNet and the NPSBN. During this meeting the template for the State public safety broadband plan will be presented. The attendees will then be asked to identify a single point of contact and develop county-wide response to the pertinent sections of the plan: Users, Applications and Ongoing Funding Strategies.

The next round of discussion, with each of the 23 counties, will be the collection of responses for the Statewide Public Safety Broadband Plan. After the collection of the county responses, tribal responses and State agency responses, the first draft of the Broadband Plan will be developed and presented to the Broadband Workgroup for discussion and revisions. Upon the approval of the Broadband Workgroup the draft plan will be presented to each of the counties and tribes for their review and comments. The Broadband Workgroup will then create the second draft, which will be sent to the county points of contact for discussion and review by the county and municipal agencies.

Phase two, collection of asset inventories, will create more rounds of face-to-face meetings with the county and municipal agencies. This outreach will begin upon the development of the template for data collection by FirstNet.

Question

- b. Describe how your State will involve these local jurisdictions to ensure there is adequate representation of their interests in the FirstNet consultation and in the planning and governance for SLIGP.

As discussed in the answer to question 4a, the Public Safety Broadband Workgroup will engage in a statewide, comprehensive outreach and education program to ensure that local governments are informed of the requirements and benefits associated with the NPSBN program. Wyoming's efforts additionally contemplate approaching outreach and education in partnership and collaboration with other states in the region consistent with advancing a regional consortium.

Question

- c. Describe past methods the State has used to successfully coordinate state-wide projects or activities with local government jurisdictions.

The State has significant past experience in coordinating statewide projects, with local government jurisdictions. Examples include the WyoLink radio network project and the creation of the PSCC. Wyoming has the advantage of a small population that brings key players to the project immediately. Key Public Safety officials have worked together on State projects over many years.

The State also has excellent experience in working regionally with other states, deploying statewide programs and strategies and identifying essential partners and critical public safety communication initiatives.

Question

d. What have been some of the State's primary challenges when engaging with local jurisdictions? What are some of the strategies that the State will employ to overcome these challenges during implementation of SLIGP?

The most significant challenge when engaging local entities is the sheer size of Wyoming and the volunteer nature of most local first responders. It is our intent to reach out regionally, to key Public Safety Officials, to interact with local jurisdictions and become familiar with the local resources when it comes time for data collection.

The State of Wyoming government has a Google enterprise communication solution and envisions more communication with video-web conferencing to reach out has a more personal approach, while saving time and budget for travel. Information will be relayed out from the Workgroup to the first responders they represent. The dedication of this Workgroup to their fellow first responders demonstrates the commitment they have to the citizens of Wyoming.

Question 5. Regional Coordination

Question

a. Does your State have intraState regional committees that are involved with public safety communications? If so, please describe their organizational structure and membership and how they provide input to the SIGB.

Although the State of Wyoming has created eight Regional Response regions, there currently are no communications groups within the regions. Most counties have county communications workgroups, which meet regularly to discuss local communication needs.

Question

- b. Describe any interstate regional bodies in which your State participates that are involved with public safety communications in the State.

Wyoming has representation on the FEMA Region VIII Regional Emergency Communications Coordinating Workgroup (RECCWG). FEMA Region VIII includes the states of Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming. The Region VIII RECCWG has already started discussion on the Nationwide Public Safety Broadband Network and planning to further enhance these discussions.

The National Council of Statewide Interoperable Coordinators (NCSWIC) has created Regional Interoperable Coordinators (RIC) within each of the FEMA regions. The RIC's have been conducting phone conference call meetings and face-to-face meetings at the RECCWG meetings and the semi-annual NCSWIC meetings. The discussions at these meetings have been addressing interstate interoperability with land mobile radios and preliminary discussions on FirstNet and NPSBN. Wyoming will continue to be involved in these discussions which will become more involved with FirstNet and NPSBN developments.

Formalizing interstate regional governing bodies is hampered largely by State law and federal regulations which impose restrictive covenants and obligations relative uses and application of funds across jurisdictional boundaries. Nonetheless, public safety in the region continues to work cooperatively to discharge its public safety interstate and intraState obligations.

Question

- c. How does the State plan to engage and leverage these existing regional coordination efforts in the nationwide public safety broadband network planning?

The western states of Idaho, Montana, Nevada, Oregon, South Dakota, Utah and Wyoming submitted joint comments in response to the Notice of Inquiry (NOI) issued by the National Telecommunications and Information Administration (NTIA) on behalf of FirstNet. The NOI response was the only such joint regional filing in the nation. These states have continued collaboration on the SLIGP application. This western states workgroup will continue to collaborate on responses to the SLIGP application, State broadband plans and future developments with FirstNet on the NPSBN.

Wyoming has collaborated with the State of Nevada and other western states with the beginning of FirstNet as well as the grant application. Nevada has become a leader in the western states workgroup and already made significant progress in collaborating with states regionally.

Western states have a long history of supporting each other and joining in common efforts relative to managing public safety issues. Wyoming continues to support the development of regional collaborative relationships to support the deployment of the national NPSBN. Wyoming is currently included in conjunction with a wireless convention private meetings to include 10 western states in discussions with FirstNet representatives. The states will also use the meeting opportunity to discuss other issues and challenges related to the NPSBN deployment.

Question

d. Please identify, if applicable, any other state, territory, or regional entity with which the State collaborated or coordinated in the development and preparation of this application and describe the nature of that collaboration or coordination.

As discussed answer to question 5c, Wyoming is collaborating with other western states to coordinate in conjunction with a wireless convention, private meetings with FirstNet representatives. The states will also use the meeting opportunity to discuss other issues and challenges related to the NPSBN deployment. The states involved in this meeting currently include Nevada, Idaho, California, Arizona, Oregon, Utah, Wyoming, Montana, South Dakota, Nebraska and New Mexico.

Question 6. Tribal Nations

Question

a. How many federally recognized tribes are located within the State boundaries? (If the answer is zero, please skip to question #7.) Information on federally recognized tribes may be located at the Department of Interior, Bureau of Indian Affairs website:
<http://www.bia.gov/WhoWeAre/BIA/OIS/TribalGovernmentServices/TribalDirectory/index.htm>

The Northern Arapaho and the Eastern Shoshone are the two federally recognized tribes in the State of Wyoming. The Wind River Indian Reservation is shared by both tribes of Native Americans, in the central western portion of Wyoming. It is the seventh-largest Indian reservation by area in the United States, with a land area of 3,473.272 square miles, encompassing just over one-third of Fremont County and over one-fifth of Hot Springs County. Of the (11,914) population in 2011, 8,177 were Arapaho and 3,737 were Shoshone on 1,880,000 acres of Tribal Land. Each of the tribes has their own tribal governmental bodies and representation on a Joint Tribal Council.

Question

b. Describe how the State will involve the tribal nations to ensure there is adequate representation of their interests in the FirstNet consultation and in the planning/governance for the grant program. Does

the State have a process for consulting with the tribes located within State boundaries? If so, please provide a description of that process.

The Public Safety Communications Commission includes a tribal representative and the Broadband Workgroup includes representation from the Northern Arapaho Tribe and Eastern Shoshone Tribe. The Governor has appointed a Tribal Liaison from each tribe as part of the Governor's Policy Staff. The Tribal Liaisons are the first contact for consultation with the tribes.

Question

c. Describe past methods the State has used to successfully coordinate with tribal nations.

The appointment of the Tribal Liaisons has improved the coordination between the State and tribal nations. Wyoming and the Tribes have found face-to-face communications improves the education and collaboration. Representation from both of the federally recognized tribes in the State of Wyoming, Northern Arapaho and the Eastern Shoshone, on the Public Safety Broadband Workgroup has also been a successful collaboration.

The State of Wyoming also participates in the Joint Tribal Council. The Joint Tribal Council has semi-annual select meetings with Committee members, Tribal, State and government officials, to hear of updates on utilities, law enforcement, health care and other relevant needs of the reservation.

Question

d. Are there tribal representatives who regularly attend your SIGB meetings? If so, please identify the tribes represented.

The PSCC membership includes one tribal representative for both tribes. The Tribal Liaisons and the tribal representatives on the Public Safety Broadband Workgroup will be requested to assist with all collaboration and development of dialog with the tribes. Education and discussions, at the appropriate level of understanding, has proven beneficial for improving the relationships between the tribes and the State. Meeting with the tribal leaders, of each tribe, and Bureau of Indian Affairs Law Enforcement, through the Tribal Liaisons and tribal Emergency Management/Homeland Security Coordinators will be leveraged to develop an understanding of the NPSBN and development of the Wyoming Public Safety Broadband Plan.

Question

e. What have been some of the State’s primary challenges when engaging with tribal nations? What are some of the strategies that the State will employ to overcome these challenges during implementation of SLIGP?

FirstNet or the NTIA may want to consider using the federal resources of the DHS Office of Emergency Communications and the Bureau of Indian Affairs to work directly with the tribal nations in concert with the State.

Question 7. Rural Coverage

Question

a. Please classify your local jurisdictions into rural and nonrural areas and identify the criteria used in making these rural and nonrural determinations.

The definition of rural areas by Federal agencies varies by the agency. Most federal definitions include Urban Areas with a population of 50,000 or more and Urban Clusters having a population of 2,500 or more. According to the 2010 Census data, Wyoming had a population of 563,626, a total area of 97,813 square miles and an average population density of 5.8 people per square mile.

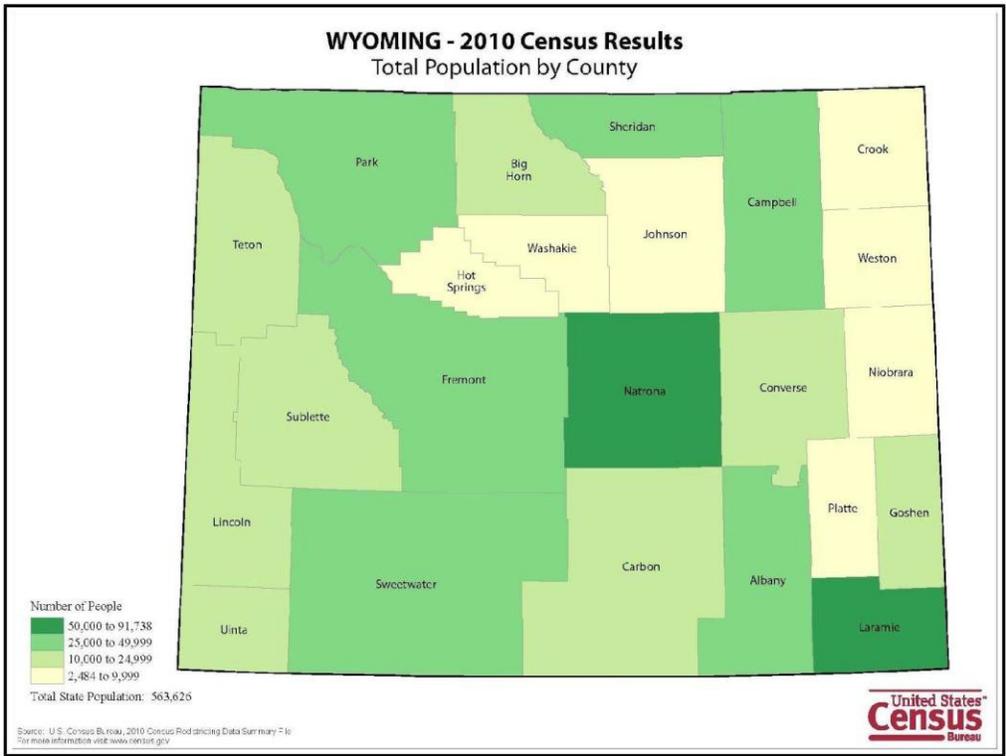
There are two Urban Areas in Wyoming, Cheyenne and Casper. Each of these areas has a population over 50,000. The Casper Urban Area includes the towns of Mills and Evansville. Twenty (20) Wyoming cities or towns have a population of at least 2,500 and less than 50,000. Of the 99 incorporated cities or towns, 75 have a population less than 2,500. Of the total State population of 563,626, there are 333,377 people who live in the cities and towns with a population over 2,500 inhabitants. There are 230,249 people who live outside of the urbanized areas. Fifty nine percent (59%) of the Wyoming population live in cities or towns with a population greater than 2,500 and forty one percent (41%) of the population live outside of the cities or towns with the 2,500 threshold.

Wyoming Urban Areas

Population	Number of Cities or Towns	Total Combined Area – Square Miles	Average Population Density
50,000 or greater	2*	57.6	2097
30,000 to 40,000	1	17.8	1737.5
20,000 to 30,000	2	38.3	1360.9
10,000 to 20,000	4	45.1	1173.7
2,500 to 10,000	13	74.7	1027

*Casper Urban Area includes the Towns of Mills and Evansville

Wyoming is the tenth largest State with a total area of 97,813 square miles and the cities and towns with a population greater than 2,500 encompass a total of 233.5 square miles or 0.23 percent of the total area. Wyoming has a total population (2010 Census) of 563,626 and a total area of 97,813 square miles and an average population per square mile of 5.8. Wyoming is a rural State with 22 urban areas or clusters.



<http://www.census.gov/2010census/>



b. Please describe the coverage area and availability of broadband service and LTE technology in the rural areas of the State as defined in response to 7.a.

Currently the availability of broadband service with 4G/LTE technology only exists in 7 cities statewide. Those communities include Cheyenne, Casper, Sheridan, Gillette, Laramie, Rock Springs and Cody. Verizon wireless is currently the only wireless provider offering this service and has said that it plans to have most of Wyoming with 4G/LTE coverage by the end of 2013.

Question

c. Please describe how the State plans to prioritize the grant activities to ensure coverage in, and participation by, rural areas. Please include specific plans, milestones, and metrics to demonstrate how you will achieve these requirements.

As stated in the Executive Summary, Wyoming is the tenth largest state with a total area of 97,813 square miles and the cities and towns with a population greater than 2,500 encompass a total of 233.5 square miles or 0.23 percent of the total area. Wyoming has a total population (2010 Census) of 563,626 and a total area of 97,813 square miles and an average population per square mile of 5.8. Wyoming is a rural state with 22 urban areas or clusters.

Because of Wyoming's unique rural designation, all planning activities will include rural coverage. After discussions with the County and Municipal representatives on the Wyoming Broadband Workgroup and meeting with the president of the County Commissioners Association and the Executive Director of the Wyoming Association of Municipalities a strategy for outreach has evolved. This strategy is to work through the County Commissioners and municipal elected officials to create a schedule of meetings in each county. The first round of meetings will include outreach and education on FirstNet and the NPSBN. During this meeting the template for the state public safety broadband plan will be presented. The attendees will then be asked to identify a single point of contact and develop county-wide response to the pertinent sections of the plan: Coverage, Users, Applications and Ongoing Funding Strategies.

The next round of discussion, with each of the 23 counties, will be the collection of responses for the Statewide Public Safety Broadband Plan. After the collection of the county responses, tribal responses and state agency responses, the first draft of the Broadband Plan will be developed and presented to the Broadband Workgroup for discussion and revisions. Upon the approval of the Broadband Workgroup the draft plan will be presented to each of the counties and tribes for their review and comments. The Broadband Workgroup will then create the second draft, which will be sent to the county points of contact for discussion and review by the county and municipal agencies.

Other than local Police Departments and Sheriff Offices, most public safety agencies are volunteer organizations. The county meetings will include all public safety disciplines, law enforcement, fire and EMS.

Proposed schedule:

August, September, October and November– 2013

1. Outreach to counties for scheduling of county-wide educational meetings including all local governmental jurisdictions and public safety disciplines.
2. County-wide meetings to included FirstNet, NPSBN and broadband information. The meetings will include the Statewide Broadband Plan template and expectations from the counties.

October, November and December – 2013: January February, March - 2014

Development of draft Statewide Broadband Plan by the Broadband Work Group using the information provided by the Counties

April and May – 2014

1. Draft Statewide Broadband Plan presented to the Counties.
2. Review by Counties

June - 2014

Draft Statewide Broadband Plan presented to the Wyoming Public Safety Communications Commission.

June, July and August– 2014

Revise Statewide Broadband Plan and create final plan. Review by Broadband Work Group, Public Safety Communications Commission and Office of Chief Information Officer.

September – 2014

Statewide Broadband Plan adoption by Public Safety Communications Commission and Office of the Chief Information Officer.

October – 2014

Begin Phase 2 – Data Collection after notification by NTIA or FirstNet.

Data collection metrics will be established by FirstNet, the collection process and methodology will be dependent upon the systems developed for collection.

- a Data collection could include an inventory of radios in use, mobile data terminals in use, local tower assets/characteristics, coverage issues, key personnel contact information, other data as required by FirstNet.
- b Data collection could include, identify telecommunications providers in regions and establish contacts and begin working on backhaul routes in relation to towers, redundancy/resiliency of infrastructure, backup capabilities until the end of project.
- c Data collection could involve State GIS personnel for mapping and data information collection.

Question 8. Existing Infrastructure

Question

- a. What, if any, databases exist that collect data on government-owned wireless and/or communications infrastructure for the state, local, and/or tribal governments?

Wyoming has minimal databases maintaining accounting of assets, related to government owned wireless and infrastructure. The WyoLink – radio network and towers database is maintained by the Wyoming Department of Transportation (WYDOT).

The Department of Enterprise Technology Services has had tremendous success in the last few months in assembling and mapping the most comprehensive understanding of wireline infrastructure of private assets. The State itself owns very little of the statewide infrastructure assets.

The LinkWyoming BTOP grant has also worked with service providers over the last four years, mapping service coverage areas.

Public/private database partnerships could include working with Wyoming’s largest wireless service providers and their infrastructure – Verizon, Union, AT&T and SilverStar for example.

The Office of Homeland Security – Office of Emergency Communications (DHS-OEC) Interoperable Communications Technical Assistance Program (ICTAP) includes a Public Safety Tools site which includes multiple tools available for planning purposes.

Additionally, the Office of Homeland Security’s - Communication Assets Survey and Mapping (CASM) tool is a standardized collection method for emergency response agencies to store and visually display data about their public safety communications assets and how those assets are used. CASM provides:

- A single repository for information about land mobile radio systems, methods of interoperability and how they are used by emergency responders.
- A means to display the data.
- Tools to analyze the data and visualize interoperability gaps in accordance with the SAFECOM Interoperability Continuum framework.

Question

b. If these databases exist, what is the process for updating them and how often do these updates occur?

The Wyoming Department of Transportation (WYDOT), updates the WyoLink antenna structure database, as needed, as the agency asset owner. Current updates are available the ETS upon request from WYDOT. Other entities would be responsible for their database updates.

The LinkWyoming BTOP database is updated every six months.

Question 9. Existing Government-Owned Networks

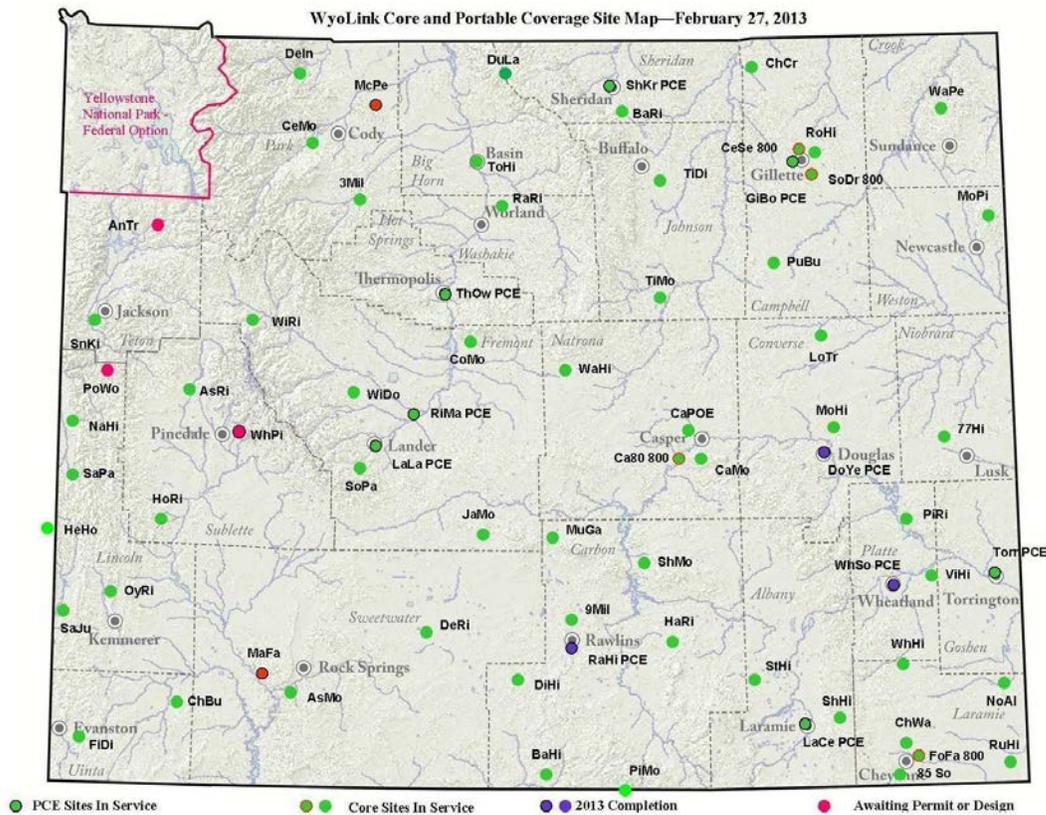
Question

a. Describe how you plan to identify any hardening, security, reliability, or resiliency requirements that are currently required for existing government-owned networks within the State, including those networks at the local and tribal governments.

All existing WyoLink sites meet current requirements. The State of Wyoming does not own a broadband network, therefore broadband usage by State agencies is leased/contracted through private service providers. The State of Wyoming does own a land mobile radio system called WyoLink, which is primarily using VHF frequencies and four radios sites operating in the 800 MHz band.

There are the prospects for using WyoLink Infrastructure to facilitate the FirstNet Public safety mobile broadband initiative. There may be some WyoLink radio sites that could be suitable for co-location of FirstNet broadband nodes, but they are not likely to be a major contributor to build-out. Case-by-case determination would be needed to determine whether a particular tower/building has sufficient room to add the cellular arrays and rack-mount equipment needed. Also, the locations of the towers were optimized for long-range WyoLink VHF repeaters: 69 sites cover about 95% of the State. FirstNet broadband nodes will have much shorter range, and experts predict it will take five to ten times as many nodes as WyoLink has, to get similar coverage.

There may be some WyoLink microwave backhaul locations that are suitable for FirstNet backhaul, but they are not likely to be a major contributor for the same reasons: case-by-case determination would be needed. Also, the existing microwave systems, optimized to serve WyoLink backhaul, would need extensive re-engineering in order to serve the very large additional data capacity envisioned for FirstNet broadband nodes.



Wyoming Department of Transportation map of WyoLink – 2013.

Question

- b. Describe how you plan to identify any existing contractual requirements regarding hardening, security, reliability, or resiliency for commercial carriers providing wireless data services within the State, including those at the local and tribal governments.

Many Wyoming agencies purchase wireless broadband services from private wireless vendors; a few municipalities operate their own. State agencies currently procure commercial cellular broadband through the Department of Enterprise Technology Services statewide contracts, without any customized hardening, security, reliability, or resiliency requirements. We have had preliminary discussions with some vendors about their existing practices, including prospects for private IP network interconnections, and the primary and alternate circuits needed for a high-availability service. We would intend to inquire of any special Local/Tribal requirements through the planning process. We support the general requirements explained in sections 4.4.4 through 4.4.6 of the Public Safety Broadband High-Level Launch Requirements, Statement of Requirements for FirstNet Consideration, dated Dec. 7, 2012, in regard to Reliability, Resiliency, and Backhaul for the NPSBN.

The standards, policies, project oversight, and study considered as part of question 9a will be expanded upon to include coordination with all commercial carriers in the State as requested by FirstNet. If commercial carriers are considered in partnership with statewide systems for the makeup of the overall components to support FirstNet and the NPSBN, an agreement will need to be achieved for the use of each commercial carrier's resources.

Question 10. Network Users

Question

- a. Describe how you plan to identify the potential users of the nationwide public safety broadband network within the State, including at the local and tribal governments.

Key leadership personnel are already involved in the Wyoming Public Safety Workgroup, that will collaborate to identify potential users of the network and identify areas that are not represented. Information will be disseminated from the Wyoming Public Safety Workgroup leaders, down through organizational charts and comprehensive contact lists. Most reasonable starting point could be with the current WyoLink membership for emergency responders. This group is has approximately 14,000 members statewide, with a recent license increase to 16,000. Potential users will also be identified through the Wyoming Attorney General's office- Division of Criminal Investigation for law enforcement; Wyoming Fire Marshalls office-for fire departments; and Wyoming Department of Health – office of Emergency Medical Services for ambulance and EMS agencies. One huge advantage Wyoming has, with its small population, is the ability to pick up the phone and get contacts immediately. Other ideas to identify potential users, will also be acknowledged from what

other states are doing and the information recommended from FirstNet regional meetings.

The Public Safety Broadband Plan template provided by the Department of Homeland Security-Office of Emergency Communications, which Wyoming will be completing, includes a section on users. This section of the plan template helps identify the current status of the existing user base, potential users and user requirements. Through the planned outreach meetings, this information will be requested from the counties, including the cities and towns, Tribal and Federal agencies operating in Wyoming.

The State will develop an outreach program to engage state, local and tribal representatives. Wyoming is using Google services for data and web-conferencing as a more efficient way of meeting throughout the State. . In addition to gathering information on existing wireless coverage, coverage gaps, existing wireless data applications and site hardening requirements, the State intends to gather user information by agency. The State recognizes that an inventory of existing data users today will not represent the potential users of a broadband data network tomorrow.

Question 11. Education and Outreach

Question

- a. Describe how you plan to educate and train multi-discipline, public safety and other government users of the nationwide public safety broadband network at your State, local, and tribal levels.

Once FirstNet has determined the proposed content, the State of Wyoming will coordinate efforts and institute a mechanism to describe the intent, define the audience, and disseminate information as efficiently as possible.

The first outreach and education for Wyoming will be the face-to-face sessions in each of the 23 counties and the two tribes. Each county or tribal session will include the local public safety agencies, information technology, department heads and elected officials.. A team will be assembled from within the Broadband Workgroup to review the information and educational materials provided by FirstNet, during their outreach sessions, to develop an educational program. This educational program should include the Public Safety Broadband Planning Template.

Additional meetings in each county and tribe are planned for data gathering, development of Public Safety Broadband Plan and review of draft documents. In Wyoming, face-to-face meetings have proven to be the most productive method of communications while developing statewide plans.

The State Broadband Enterprise Architect, under the guidance and direction of the State Chief Information Officer will be the single point of contact with FirstNet. The State Broadband Enterprise Architect will also interact with FirstNet, both during the State consultation phase of the NPSBN deployment and ongoing interactions.

The Public Safety Broadband Workgroup will develop outreach strategies and education to engage

stakeholders necessary to effectively assist in navigating the complexities of this initiative, based on FirstNets requirements.

Much of the outreach activity is currently being performed. Certain groups and associations have already been presented with the concepts of the NPSBN. The Workgroup plans to develop comprehensive governance, planning outreach and education programs in conjunction with Phase I of the SLIGP. Professional services will follow FirstNets outreach strategies to engage the stakeholders across first responders, utilities, general business users, equipment vendors, attorneys, and others to effectively assist user groups in navigating the complexities of the program. The Workgroup will provide necessary oversight to guide the cooperation and planning necessary to achieve desired results consistent with the objects of the SLGIP.

Question 12. Memorandum of Agreements

Question

- a. Describe any specific obstacles, laws, and/or legal issues that will likely impede your ability to participate fully in the nationwide public safety broadband network or in SLIGP.

As FirstNet provides more guidance related to PSBN activities and its operating business model, Wyoming will be more able to identify the obstacles and legal issues that would need to be addressed for the PSBN or SLIGP.

Question 13. Tools

Question

- a. What are some of the software tools that the State has used and could apply to the planning and data collection activities associated with this program?

Wyoming has an enterprise Google solution and will leverage software tools associated with this account. The State also has previously used internet based survey tools for the Broadband Technology Opportunity Program and during the Public Safety Mobile Communication planning.

The Department of Homeland Security – Office of Emergency Communications (DHS-OEC) Interoperable Communications Technical Assistance Program (ICTAP) includes a Public Safety Tools site which includes multiple tools available for planning purposes. Currently, broadband tools for surveying broadband usage and communications asset and mapping are available. DHS-OEC has plans for the Public Safety Tools to be upgraded to include revised and additional tools which may be used to assist states with meeting the future FirstNet broadband data sets.

The Department of Transportation (WYDOT) – (ITS) has begun work with software tools that map current mobile service providers coverage along Interstates and highways for the Highway Patrol. Tools such as this will be used to work with service providers to identify and fill in gap areas across the State.

LTE service is in the early stages for Wyoming. Verizon Wireless is currently the only provider offering 4G service in the State in seven cities.

Question 14. Phase Two Funding

Question

- a. Describe the activities that you expect to undertake with the Phase 2 funding when it is made available to the State, Territory, or District.

The State of Wyoming realizes that the planning and outreach activities contemplated for Phase 1 may require additional funding that currently is to be disbursed during Phase 2. The State will continue Phase 1 activities until Phase 2 funding is made available. During Phase 2 we will address the need to prepare Wyoming for additional consultation with FirstNet and plan to undertake data collection activities. The State will collect network and other communications asset information (e.g., tower site locations) from state, local, tribal, federal, and commercial stakeholders and create a consistent framework to catalogue and evaluate the usability of State infrastructure.

The Act contemplates that the success of the NPSBN will be heavily reliant upon the ability of FirstNet to leverage existing State and local assets to help deploy a nationwide network. Regardless of the architecture, available assets will be needed to help defray the enormous cost of a nationwide deployment. Understanding Wyoming's communications resources and assessing their value and capabilities will greatly benefit Wyoming's ability to effectively interact with NTIA and FirstNet, as well as the FCC. The net result will be a strong interconnection strategy between Wyoming and the FirstNet core network.

Along with physical asset inventory, Wyoming will need to perform an application inventory across the State to ensure future user requirements are captured and enhanced through NPSBN deployment.

One more critical piece for NPSBN deployment is developing a user device strategy including device acquisition, service, upgrades and retirement. The product lifecycle needs to be defined with appropriate assumptions around cost and revenue.

Question 15. Other

Question

- a. Please list any consultants, vendors, or other entity that assisted in the preparation of this application.

The preparation of this application was completed within the State of Wyoming governmental departments. Consultation and input was received in cooperation with other Western States known as WestNet. Wyoming is one of several western states that have formed a working regional team to assist FirstNet in understanding the unique needs of western states.

Wyoming has had multiple phone calls and emails with the following states on the grant application with the

potential to be viewed as a regional consortium for future build-out consideration with FirstNet: Alaska, Arizona, California, Idaho, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oregon, South Dakota, and Utah. These interactions were invaluable for gaining a perspective on particular narrative questions, engaging FirstNet and NTIA resources.

BUDGET INFORMATION - Non-Construction Programs

OMB Number: 4040-0006
Expiration Date: 06/30/2014

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. State and Local Implementation Grant Program	11.549	\$ 1,350,593.00	\$	\$ 1,350,593.00	\$ 337,648.00	\$ 1,688,241.00
2.						
3.						
4.						
5. Totals		\$ 1,350,593.00	\$	\$ 1,350,593.00	\$ 337,648.00	\$ 1,688,241.00

SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1)	(2)	(3)	(4)	
	State and Local Implementation Grant Program	N/A			
a. Personnel	\$	147,300.00	\$	\$	\$ 147,300.00
b. Fringe Benefits		44,190.00			44,190.00
c. Travel	242,400.00				242,400.00
d. Equipment					
e. Supplies	4,193.00				4,193.00
f. Contractual	1,104,000.00				1,104,000.00
g. Construction					
h. Other		146,158.00			146,158.00
i. Total Direct Charges (sum of 6a-6h)	1,350,593.00	337,648.00			\$ 1,688,241.00
j. Indirect Charges					\$
k. TOTALS (sum of 6i and 6j)	\$ 1,350,593.00	\$ 337,648.00	\$	\$	\$ 1,688,241.00
7. Program Income	\$	\$	\$	\$	\$

SECTION C - NON-FEDERAL RESOURCES					
(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS	
8. Personnel (State match)	\$ 147,300.00	\$	\$	\$ 147,300.00	
9. Fringe Benefits (State match)	44,190.00			44,190.00	
10. Other match (local jurisdictions contributing time for meeting attendance)			146,158.00	146,158.00	
11.					
12. TOTAL (sum of lines 8-11)	\$ 191,490.00	\$	\$ 146,158.00	\$ 337,648.00	
SECTION D - FORECASTED CASH NEEDS					
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$	\$	\$	\$	\$
14. Non-Federal	\$				
15. TOTAL (sum of lines 13 and 14)	\$	\$	\$	\$	\$
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)	\$	\$	\$	\$	
SECTION F - OTHER BUDGET INFORMATION					
21. Direct Charges:		22. Indirect Charges:			
23. Remarks: State of Wyoming revision of SF-424A 06/18/2013					

Wyoming SLIGP Detailed Budget Spreadsheet

Category	Detailed Description of Budget (for full grant period)			Breakdown of Costs		
	Years	Annual Cost	Total Cost	Federal	Non-Federal	
a. Personnel						
Broadband Enterprise Architect - Single point of contact for FirstNet for WY. Will spend 25% of the time on SLIGP grant activities for 3 years. The BEA's annual salary is \$80,400. \$80,400 x 25% = \$20,100	3	\$20,100	\$60,300		\$60,300	
SWIC - The SWIC will spend 50% of the time on SLIGP grant activities for 3 years. The SWIC's annual salary is \$56,600. \$56,600 x 50% = \$28,300	3	\$28,300	\$84,900		\$84,900	
Budget Administrator The BA will spend 1% of the time on SLIGP grant activities for 3 years. The BA's annual salary is \$70,000. \$70,000 x 1% = \$700	3	\$700	\$2,100		\$2,100	
Total Personnel			\$147,300		\$147,300	
b. Fringe Benefits						
	Salary	Percent	Years	Total Cost	Federal	Non-Federal
Broadband Enterprise Architect Fringe is calculated at 30% of salary, for the portion of time spent on SLIGP activities (25%). (.30 x .25 = .075) (Total Cost * 3 years = \$18,090)	\$80,400	7.5%	3	\$18,090		\$18,090
SWIC Fringe is calculated at 30% of salary, for the portion of time spent on SLIGP activities (50%) (.30 x .50 = .15) (Total Cost * 3 years = \$25,470)	\$56,600	15%	3	\$25,470		\$ 25,470
Budget Administrator Fringe is calculated at 30% of salary, for the portion of time spent on SLIGP activities (1%) (.30 x .01 = .003) (Total Cost * 3 years = \$630)	\$70,000	0.30%	3	\$630		\$630
Total Fringe Benefits				\$44,190	\$0	\$44,190
c. Travel						
	Quantity	Years	Total Cost	Federal	Non-Federal	
In State Mileage for Working Group Meetings 10 individuals, 2 days, rental car \$47/day, per diem \$46/day, hotel \$77/day, x 12 trips, x 3 years	\$ 40,800	3	\$122,400	\$122,400		
Estimate - Pre-award Out of State Travel for 1st FirstNet regional meeting Denver May 21-22. 9 individuals representing WY. 2 day conf, hotel, per diem, car rentals and mileage (\$440 each) (no airline required) 9 individuals x (Hotel=\$164.27, + M&E \$99 (total 2 days), + Car Rental amounts (\$564 total), + ave miles from WY cities to Den 203miles*Mileage rate 56.5 cents = \$1,030.56) = \$3,960	\$ 440	9	\$3,960	\$3,960		

Out of State Travel for Regional and National Meetings with FirstNet 10 individuals, ave 2-3 day conf, hotel, per diem and airline \$1,000. 4 quarterly trips per yr, x 3 years = \$120,000 - *(pre-award trip from line 16 - \$3,960 = \$116,040)	\$ 40,000	\$3	\$116,040	\$116,040	
Total Travel			\$242,400	\$242,400	\$0
d. Equipment	Quantity	Unit Cost	Total Cost	Federal	Non-Federal
N/A	0	\$0	\$0	\$0	
Total Equipment			\$0	\$0	\$0
e. Supplies	Quantity	Unit Cost	Total Cost	Federal	Non-Federal
Office Supplies budgeted at \$50/month for 3 years	36 months	\$50	\$1,800	\$1,800	
Laptops	2	\$1,197	\$2,393	\$2,393	
Total Supplies			\$4,193	\$4,193	\$0
f. Contractual	Quantity	Months	Total Cost	Federal	Non-Federal
Program Manager - Technical writer 160 hrs./mo x average hourly rate is \$85 see detailed justification	\$ 13,600	36	\$ 489,600	\$489,600	
Data Collection Manager - 160 hrs./mo x average hourly rate is \$100 see detailed justification	\$ 16,000	24	\$ 384,000	\$384,000	
Research-Planner 160 hrs./mo x average hourly rate is \$60 see detailed justification	\$ 9,600	24	\$ 230,400	\$230,400	
Total Contractual			\$ 1,104,000	\$1,104,000	\$0
g. Construction	Quantity	Unit Cost	Total Cost	Federal	Non-Federal
N/A			\$0		
Total Construction			\$0	\$0	\$0
h. Other	Quantity	Years	Total Cost	Federal	Non-Federal
PSCC meetings. Only % of meeting relating to FirstNet will be recorded. Volunteer Unit Cost/per hour. Volunteers are tracked through sign-in sheets at each meeting. Their contribution is valued at \$18.97 per hour per guidance from http://www.independentsector.org/volunteer_time/ 2 Hour / Quarterly meetings (17 members x 2 hours x 18.97hr x 4 meetings per year) = \$2,580 per year x 3 years = \$7740	\$ 2,580	3	\$7,740		\$7,740
Wyoming Public Safety Work Group meetings. 100 % of meeting is for FirstNet. Volunteer Unit Cost/per hour. Volunteers are tracked through sign-in sheets at each meeting. Their contribution is valued at \$18.97 per hour per guidance from http://www.independentsector.org/volunteer_time/ 2 Hour / meetings (20 members x 2 hours x 18.97hr x 26meetings per year) = \$19,729 per year x 3 years = \$59,187	\$ 19,729	3	\$59,187		\$59,187

Outreach Statewide Emergency Responder meetings. 100 % of meeting is for FirstNet. Volunteer Unit Cost/per hour. Volunteers are tracked through sign-in sheets at each meeting. Their contribution is valued at \$18.97 per hour per guidance from http://www.independentsector.org/volunteer_time/ 4 Hour / meetings (16 members x 4 hours x 18.97hr x 23 counties = \$27,924 per year x 3 years = \$83,772. Although we anticipate the value of this match contribution being \$83,772, we only intend to commit \$79,231."	\$27,924.00	3	\$79,231		\$79,231
Total Other			\$146,158	\$0	\$146,158
Total Direct Charges			\$1,688,241	\$1,350,593	\$337,648
i. Indirect Costs	Quantity	Unit Cost	Total Cost	Federal	Non-Federal
Indirect Costs	\$0	0%			
Total Indirect			\$0	\$0	\$0
TOTALS			\$1,688,241	\$1,350,593	\$337,648

\$1,688,241

New Amount awarded:

\$ 1,350,593 \$ 337,648

Difference: Match above required

\$ 1,688,241

\$ - \$ -

	Federal	State Match (in kind)	Total	Narrative
	\$1,383,000.00	\$345,750.00	\$1,728,750.00	
revised amount:	\$1,350,593.00	\$337,648.00	\$1,688,241.00	
= difference from Sequestration	\$32,407.00	\$8,102.00	\$40,509.00	
Federal				see sheet 3 for State Match breakdown:
a. Personnel	\$0.00	\$147,300.00		State Match will be met with in-kind time from employees and volunteers
b. Fringe Benefits		\$14,730.00		General funds
Other salary contributions needed				General funds
c. Travel - Total				see sheet 2
1c. Travel - Out of State	\$120,000.00			Average for 2 days
2c. Travel - In State	\$122,400.00			per yr
				10. # of indiv \$1,000.00 Air/hotel/per diem/2day: 4 #trips-meetings/yr \$40,000.00 x3 yrs \$120,000.00
				In State: see sheet 2 10. # of indiv \$340.00 Hotel/per diem/2 days 12. #trips-meetings/yr \$40,800.00 x3 yrs \$122,400.00
d. Equipment = 0	\$81,800.00			estimate of any equipment needed for project, approx 6%
e. Supplies (needs itemized)	\$6,000.00			estimate \$2000/yr \$2,000.00 x3 yrs \$6,000.00
f. Contractual				
1f. Program Manager - Technical writer	\$489,600.00			Contract - Program Manager \$85.00 hr 160 hr/mo \$13,600.00 x 12mos \$163,200.00 x3 yrs \$489,600.00
2f. Technical wireless design engineer	\$120,000.00			Contract - Wireless design Engineer \$125.00 hr 160 hr/mo \$20,000.00 x 6mos \$120,000.00 x1 yr \$120,000.00
3f. Research-Planning for potential partners	\$163,200.00			Contract - Research/Planner-engaging potential partners \$85.00 hr 160 hr/mo \$13,600.00 x 12mos \$163,200.00 x1 yr \$163,200.00
g. Construction	\$0.00	\$0.00		
h. Other - leased equipment (COWS)	\$280,000.00			lease eq from Union/Verizon + tech training \$20,000.00 per simulation x7 regions \$140,000.00 x 2 yrs \$280,000.00
				simulation training of portable (COWS) in disaster situation
h. Other - non state personnel meeting attendance	\$	119,283.00		third party donation of time (non-state employees)- agreement?
I. Total Direct Charges = Federal amount	\$1,383,000.00			
Remaining (budget amount)	\$0.00			\$1,383,000.00
				State Match \$ 281,313.00 \$ (56,335.00)
				c. Travel - Subtotal (In State & Out of State) \$242,400.00
				f. Contractual - Subtotal (all 3 sources) \$772,800.00

Budget Justification

State of Wyoming, State and Local Implementation Grant Program (SLIGP)		
Awarded Match Proportionality: 20%		
Total: Original Amount (Years 1 - 3)	By Phase 1	Phase 2
Federal Award Amount	691500	691500
Match Amount 20%	172875	172875
Total Budget	864375	864375

Or by Year 1	Year 2	Year 3
461000	461000	461000
115250	115250	115250
576250	576250	576250

Compliation of Match Sources								
Match Source Categories	Title, Roll, Description of Item/Service	Name of Contributing Entity	Valuation of Item/Service				Total 3 Year Contribution Commitment	Notes
			Salary	% of Time Spent on Project	Per Year Contribution	# of Years		
Personnel Salaries								
Troy Babbitt	Broadband Enterprise Architect	State of Wyoming (ETS)	80400	0.25	20100	3	60300	Contributions of personnel salaries donated by the State of Wyoming are included in match. Donated salary/expenses of the Broadband Enterprise Architect is valued at \$80,400 per year. 3 years of match for the (SLIGP) utilized at 25%.
Bob Symons	SWIC	State of Wyoming (OHLs)	56600	0.5	28300	3	84900	Contributions of personnel salaries donated by the State of Wyoming are included in match. Donated salary/expenses of the Statewide Interoperable Coordinator is valued at \$56,600 per year. 3 years of match for the (SLIGP) utilized at 50%.
Jackie Childress	Budget Administrator	State of Wyoming (ETS)	70000	0.01	700	3	2100	Contributions of personnel salaries donated by the State of Wyoming are included in match. Donated salary/expenses of the Budget Administrator is valued at \$70,000 per year. 3 years of match for the (SLIGP) utilized at 1%.
Personnel Fringe Benefits			Salary Contribution Amount	Staff time multiplied by State 30% Benefits Rate x % of Time Spent on				
Troy Babbitt	Broadband Enterprise Architect	State of Wyoming (ETS)	80400	0.075	6030	3	18090	Contributions of benefits donated by State of Wyoming are included in Indirect match. The value of salaries/benefits of State personnel dedicating time/efforts to the SLIPG grant comprise approximately 30% of salary per year utilized at 25%.
Bob Symons	SWIC	State of Wyoming (OHLs)	56600	0.15	8490	3	25470	Contributions of benefits donated by State of Wyoming are included in Indirect match. The value of salaries/benefits of State personnel dedicating time/efforts to the SLIPG grant comprise approximately 30% of salary per year utilized at 50%.
Jackie Childress	Budget Administrator	State of Wyoming (ETS)	70000	0.003	210	3	630	Contributions of benefits donated by State of Wyoming are included in Indirect match. The value of salaries/benefits of State personnel dedicating time/efforts to the SLIPG grant comprise approximately 30% of salary per year utilized at 1%.
Other -PSCC - 17 representatives			Volunteer Unit Cost/hr	# of Units			44190	
Public Safety Communication Commission (PSCC) - appointed by the Governor, 17 representatives from public safety agencies, professional associations and State departments.	Volunteer time of participants in planning meetings 100% related to FirstNet	Public Safety Communication Commission (PSCC) - appointed by the Governor, 17 representatives from public safety agencies, professional associations and State departments.	\$18.97 per hour	2 Hour / Quarterly meetings (17 members x 2 hours x 18.97hr x 4 meetings per year) = \$2,580 per yr.	2580	3	7740	Volunteers are tracked through sign-in sheets at each meeting. Their contribution is valued at \$18.97 per hour per guidance from http://www.independentsector.org/Volunteer_time/
Other - Public Safety Work Group - over 20 members			Volunteer Unit Cost/hr	# of Units				
Public Safety Work Group - FirstNet specific, over 20 representatives from public safety agencies, professional associations and State departments.	Volunteer time of participants in planning meetings 100% related to FirstNet	Public Safety Work Group - FirstNet specific, 20 representatives from public safety agencies, professional associations and State departments.	\$18.97 per hour	2 Hour meetings: Bi-weekly meetings (20 members x 2 hour meetings x 18.97hr x 26 meetings per year) = \$19,729 per yr.	19729	3	59187	Volunteers are tracked through sign-in sheets at each meeting. Their contribution is valued at \$18.97 per hour per guidance from http://www.independentsector.org/Volunteer_time/ (Meetings are 100% about FirstNet, that's why this group was formed)
Other - StateWide Emergency Responders			Volunteer Unit Cost/hr	# of Units				
StateWide Emergency Responders (low estimate 10 responders per county)(23 counties)	Volunteer time of participants in 23 county FirstNet planning meetings 100% related to FirstNet	Regional and State Planning Teams (23 counties x number of participants in planning meetings statewide)	\$18.97 per hour	4 Hour meetings: Annually (10 members x4hrs = 40, x 23cntys = 920, x \$18.97 rate) = \$17,452 per yr.	17452	3	52356	Volunteers are tracked through sign-in sheets at each meeting. Their contribution is valued at \$18.97 per hour per guidance from http://www.independentsector.org/Volunteer_time/ (Meetings will be 100% about FirstNet, outreach and education)
Other State Match			Unit Cost	# of Units				

Portion of Enterprise Technology Services (ETS) salaries (not included above), fringe benefits and expenses, including those of the Chief Information Officer (CIO), Deputy CIO, executive assistants, Office of Enterprise Architects (OEA) :Lead-Education Architect, Security Architect, Enterprise Architect, GIS Architect, Health Architect and other staff for their time directly related to this grant/project.	Labor contributed to FirstNet efforts/meetings. 9 EST Subject matter experts contributing 30 minutes a week. (ave \$45/hr) (45 x 52 wks = \$2340 x 9 individuals, x .5 hr = \$10,530 yr	State of Wyoming, ETS	N/A	N/A	10530	3	31590	ETS tracks hours worked on project through timekeeping system and calculates corresponding portion of salary contributed as match. (Match reports include time/expenses donated by CIO-Flint Waters, Deputy CIO-Meredith Bickell, Exec assistant-Teresa Canjar, assistant-Patricia Green, OEA-lead/Ed-Laurel Ballard, Jacob Mundt-GIS, Ray Brand-Enterprise, Dallas Lain-Health and Joe Gerber-Security.
Portion of Office of Homeland Security (OHS) salaries (not included above), fringe benefits and expenses, including those of the Director, Deputy and other staff for their time directly related to this project.	Labor contributed to FirstNet efforts/meetings. 5 OHS Subject matter experts contributing 30 minutes a week. (ave \$45/hr) (45 x 52 wks = \$2340 x 5 individuals, x .5 hr = \$5,850 yr	State of Wyoming, OHS	N/A	N/A	5850	3	17550	OHS tracks hours worked on project through timekeeping system and calculates corresponding portion of salary contributed as match. (Match reports include time/expenses donated by Guy Cameron, Larry Mejerus, Jim Frank and executive assistants.
Total Match Contributions					103591		119283	State estimated match amounts exceeds/required amount of \$345,750 now \$337,648
Compilation of Project Match Amounts								
previous match amount	345750	172875	each spending phase 1 & 2					
revised match amount	337648	115250	or per year, (years 1-3)				49140	

State of Wyoming

FirstNet – Detailed Budget Justification :

(Revised –sequestration)

SLIGP Budget Summary:

Federal	\$1,350,593
Non-Federal	<u>\$ 337,648</u>
Total	\$1,688,241

Object Class Categories:

a. Personnel		Non-Federal Match	\$147,300
b. Fringe Benefits		Non-Federal Match	\$ 44,190
c. Travel	\$242,400		
d. Equipment	\$ 0		
e. Supplies	\$ 4,193		
f. Contractual	\$1,104,000		
g. Construction			
h. Other		Non-Federal Match	\$146,158
i. Total Direct Charges (sum of a-h)	<hr/>		
k. Totals	Federal	\$1,350,593	Non-Federal \$337,648
			Total \$1,688,241

a. Personnel Salaries and Wages –

Federal:	\$ 0
Non-Federal	<u>\$147,300</u>
Total:	\$147,300

With the approval of the State Chief Information Officer, contributions of personnel salaries and benefits donated by the State of Wyoming are included in match.

1) Troy Babbitt Broadband Enterprise Architect State of Wyoming (ETS)
 The Broadband Enterprise Architect will provide oversight for the SLIGP grant, ensuring that all activities are completed on time and within budget. The Broadband Enterprise Architect will be the primary point of contact for consultation with FirstNet, and will work to expand the State's governance structure. This position will have the responsibility for the overall grant management, completion of progress reports and ensuring grant activities are completed on time. The budgeted costs below are only for the duties associated with public safety broadband and the SLIGP grant. All of this expense will be provided as in-kind match.

Donated salary/expenses of the Broadband Enterprise Architect is valued at \$80,400 per year. 3 years of match for the (SLIGP) utilized at 25%.

Calculated: Troy Babbitt is the current Broadband Enterprise Architect @ a salary of \$80,400. Projected time that Mr. Babbitt will work on FirstNet grant

activities is 25% per project year.

$$25\% \times \$80,400 = \$20,100 \text{ per year} \times 3 \text{ years} = \$60,300.$$

2) Bob Symons Statewide Interoperability Coordinator (SWIC) officer - State of Wyoming Office of Homeland Security. Donated salary/expenses of the SWIC officer is valued at \$56,600 per year. 3 years of match for the (SLIGP) utilized at 50%.

The SWIC will organize meetings with local and tribal jurisdictions, and communicate information about grant activities to key stakeholders. This position will spend 50% of this time on SLIFP grant activities. All of this expense will be provided as in-kind match.

Calculated: Bob Symons is the current SWIC officer @ a salary of \$56,600. Projected time that Mr. Symons will work on FirstNet grant activities is 50% per project year.

$$50\% \times \$56,600 = \$28,300 \text{ per year} \times 3 \text{ years} = \$84,900.$$

3) Jackie Childress Budget Administrator State of Wyoming (ETS)

This person will provide grant management support, including managing the project's budget. All of this expense will be provided as in-kind match.

Donated salary/expenses of the Budget Administrator is valued at \$70,000 per year. 3 years of match for the (SLIGP) utilized at 1%.

Calculated: Jackie Childress is the current Budget Administrator @ a salary of \$70,000. Projected time that Mrs. Childress will work on FirstNet grant activities is 1% per project year.

$$1\% \times \$70,000 = \$700 \text{ per year} \times 3 \text{ years} = \$2,100$$

b. Fringe Benefits - Salary x 30% benefits, x % of time spent on project = match amount (State of Wyoming employee benefits are actually closer to 37%) (30% was used as a conservative amount - Example: Insurance (9% single) 13% family; retirement 14.12%; FICA 7%; unemployment .05%; workers comp 1.25%; deferred comp .0005%) would be a total of 35.4205%. All of this expense will be provided as in-kind match.

Federal:	\$ 0
Non-Federal	\$ 44,190
Total:	\$ 44,190

1) Troy Babbitt Broadband Enterprise Architect State of Wyoming (ETS)

Calculated: Troy Babbitt is the current Broadband Enterprise Architect @ a salary of \$80,400 and benefits of 30%. Projected time that Mr. Babbitt will work on FirstNet grant activities is 25% per project year.

$$30\% \times \$80,400 = \$24,120 \text{ per year} \times 25\% \text{ of time on grant} = \$6,030 \text{ per year} \times 3 \text{ years} = \$18,090.$$

2) Bob Symons SWIC officer - State of Wyoming Office of Homeland Security

Calculated: Bob Symons is the current SWIC officer @ a salary of \$56,600 and benefits of 30%. Projected time that Mr. Symons will work on FirstNet

grant activities is 25% per project year.

$30\% \times \$56,600 = \$16,980$ per year $\times 50\%$ of time on grant = $\$8,490$ per year $\times 3$ years = $\$25,470$.

3) Jackie Childress Budget Administrator State of Wyoming (ETS)

Calculated: Jackie Childress is the current Budget Administrator @ a salary of \$70,000 and benefits of 30%. Projected time that Mrs. Childress will work on FirstNet grant activities is 1% per project year.

$30\% \times \$70,000 = \$21,000$ per year $\times 1\%$ of time on grant = $\$210$ per year $\times 3$ years = $\$630$.

c. Travel

Federal:	\$ 242,400
Non-Federal	\$ <u>0</u>
Total:	\$ 242,400

Travel is projected for personnel, to attend meetings with grant funding for emergency responder representatives, attend professional conferences and meetings to disseminate information about the project, or for other purposes specific to the project.

Out of State Travel - 10 individuals, Ave 2-3 day conf, hotel, per diem and airline \$1,000. 4 (quarterly trips per year) = 1 year \$40,000. Times 3 Years = \$120,000. (note* minus amount from below of \$3,960) For new total of \$116,040.

Pre-Award Out of State Travel (pre-award cost that the State of Wyoming has already encumbered, attending mandatory SLIPG meeting in Denver, CO May 22, 2013); 10 individuals were scheduled, but one could not attend, therefore actual costs are from the receipts of 9 individuals and their \$3,960 charges. (9 individuals \times (hotel & m&e \$263.27) = \$263.27 + shared car rentals (\$564) + all total mileage (203miles \times rate 56.5) \$1,030.56) = Total cost of pre-award trip \$3,960.

In State Travel - 10 individuals, 2 days, Rental Car \$47 per day, meals/per diem day \$46, Hotel reimbursement rate \$77 per day = \$170 per day $\times 2$ days = \$340, $\times 10$ individuals = \$3,400, $\times 12$ trips per year = \$40,800, $\times 3$ years = \$122,400. Total In/Out of State travel = \$242,400

d. Equipment

Federal:	\$ 0
Non-Federal	\$ <u>0</u>
Total:	\$ 0

No Equipment will be budgeted for SLIGP.

Estimated equipment amount = \$ 0

e. Supplies

Federal:	\$ 4,193
Non-Federal	\$ <u>0</u>
Total:	\$ 4,193

Office supplies: This includes paper, folders, pens, and other general office supplies which will be used by the Grant Manger and Outreach Coordinator for grant-related activities. Office supplies are budgeted at \$50/month for 36 months = \$1,800.

Laptops: The State will purchase new laptops for the Grant Manager and Outreach Coordinator for use while on travel and for conducting other grant-related work. Two laptops are budgeted at \$1,197 each = Total \$2,393.

Estimated supplies amount = \$4,193

f. Contractual - Many factors will influence the amount of compensation to be budgeted for consultants and contractual expenses.

Federal:	\$1,104,000
Non-Federal	<u>\$ 0</u>
Total:	\$1,104,000

1f. Program Manager - Technical writer

$\$85/\text{hr} \times 160 \text{ hr}/\text{mo} = \$13,600 \times 12 \text{ months} = \$163,200 \times 3 \text{ years} = \$489,600$

This position will work with the Broadband Enterprise Architect and SWIC officer to assist FirstNet with the development of a work plan and collection of information that is required. Prepare draft written reports for review by State leads and assemble relevant demographic, economic and availability of infrastructure assets.

2f. Data Collection Manager

$\$100/\text{hr} \times 160 \text{ hr}/\text{mo} = \$16,000 \times 24 \text{ months} = \$384,000$

This position will work with the Broadband Enterprise Architect and SWIC officer to assist FirstNet with the data collection of information that is required. Support could include ongoing support of the data collection as requirements are developed and identify/utilize mapping resources available. Emphasis on phase 2, after guidance from FirstNet.

3f. Research-Planning for potential partners

$\$60/\text{hr} \times 160 \text{ hr}/\text{mo} = \$9,600 \times 24 \text{ months} = \$230,400$

This position will research appropriate topics addressed by FirstNet. Develop draft text and support graphics for selected topics and organize prototype presentation format. Will work with statewide stakeholders to research and plan requirements set forth from FirstNet.

h. Other –

Federal:	\$ 0
Non-Federal	<u>\$ 146,158</u>
Total:	\$ 146,158

1) Other Public Safety Communication Commission (PSCC) - appointed by the Governor, 17 representatives from public safety agencies, professional associations and State departments. (Note: only percentage of the meetings that are specifically related to FirstNet will be recorded for value.) Agreements are on a Volunteer basis only.

Calculated: Volunteer Unit Cost/per hour. Volunteers are tracked through sign-in sheets at each meeting. Their contribution is valued at \$18.97 per hour per

*guidance from http://www.independentsector.org/volunteer_time/
2 Hour / Quarterly meetings (17 members x 2 hours x 18.97hr x 4 meetings per year) =
\$2,580 per year x 3 years = \$7740*

2) Other Public Safety Work Group - FirstNet specific, over 20 representatives from public safety agencies, professional associations and State departments. (100% of Public Safety Work Group meetings is related to FirstNet. It was created specifically and only for FirstNet). Agreements are on a Volunteer basis only

*Calculated: Volunteer Unit Cost/per hour. Volunteers are tracked through sign-in sheets at each meeting. Their contribution is valued at \$18.97 per hour per
guidance from http://www.independentsector.org/volunteer_time/
2 Hour meetings: Bi-weekly meetings (20 members x 2 hour meetings x 18.97hr x
26 meetings per year) = \$19,729 per yr. x 3 years = \$59,187*

3) Other StateWide Emergency Responders (low estimate 15 responders per county)(23 counties) Agreements are on a Volunteer basis only

*Calculated: Volunteer Unit Cost/per hour. Volunteers are tracked through sign-in sheets at each meeting. Their contribution is valued at \$18.97 per hour per
guidance from http://www.independentsector.org/volunteer_time/
4 Hour meetings: Annually (16 members x 4hrs = 64, x 23 counties = 1472, x \$18.97
rate)
= \$27,924 per yr. x 3 years = *\$83,772*

**(Although we anticipate the value of this match contribution being \$83,772, we only intend to commit \$79,231)*

TOTALS

Federal:	\$1,350,593
Non-Federal	\$ <u>337,648</u>
Total:	\$1,688,241

Conclusion

The plan and budget were generated based on several factors: the costs and timelines estimated for the FirstNet project to cover over three years of planning, scheduled to happen in two separate phases. The State of Wyoming confirms and understands that one half of the Federal funds will be held in reserve until Phase 2 begins. Rates of the consultants, equipment and supplies costs are based on past and current projections for this project. Travel is projected over the next three years, including airfare, ground transportation, per diem, registration fees and lodging for IN and OUT of state for emergency responder representatives. The funds from this grant will support the majority of the project.

The State of Wyoming feels confident in the estimations based on this work.

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.
19. Will comply with the requirements of Section 106(g) of the Trafficking Victims Protection Act (TVPA) of 2000, as amended (22 U.S.C. 7104) which prohibits grant award recipients or a sub-recipient from (1) Engaging in severe forms of trafficking in persons during the period of time that the award is in effect (2) Procuring a commercial sex act during the period of time that the award is in effect or (3) Using forced labor in the performance of the award or subawards under the award.

<p>* SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL</p> <p>Troy Babbitt</p>	<p>* TITLE</p> <p>State Chief Information Officer</p>
<p>* APPLICANT ORGANIZATION</p> <p>State of Wyoming - Dept of Enterprise Technology Services</p>	<p>* DATE SUBMITTED</p> <p>03/19/2013</p>

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

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 Wyoming - Dept of Enterprise Technology Services

* AWARD NUMBER

* PROJECT NAME

State and Local Implementation Grant Program (SLIGP)

Prefix: Mr. * First Name: Flint Middle Name:

* Last Name: Waters Suffix:

* Title: State Chief Information Officer

* SIGNATURE:

Troy Babbitt

* DATE:

03/19/2013

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
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4. Name and Address of Reporting Entity:
 Prime SubAwardee

* Name: NA
* Street 1: NA Street 2: _____
* City: NA State: WY: Wyoming Zip: _____
Congressional District, if known: WY00

5. If Reporting Entity in No.4 is Subawardee, Enter Name and Address of Prime:

6. * Federal Department/Agency: NTIA	7. * Federal Program Name/Description: State and Local Implementation Grant Program CFDA Number, if applicable: 11.549
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8. Federal Action Number, if known: _____	9. Award Amount, if known: \$ _____
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10. a. Name and Address of Lobbying Registrant:

Prefix _____ * First Name NA Middle Name _____
* Last Name NA Suffix _____
* Street 1: NA Street 2: _____
* City: NA State: _____ Zip: _____

b. Individual Performing Services (including address if different from No. 10a)

Prefix _____ * First Name NA Middle Name _____
* Last Name NA Suffix _____
* Street 1: NA Street 2: _____
* City: NA State: _____ Zip: _____

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: Troy Babbitt
* Name: Prefix Mr. * First Name Troy Middle Name _____
* Last Name Babbitt Suffix _____
Title: Broadband Enterprise Architect Telephone No.: 307-777-5014 Date: 03/19/2013

Office of the Governor

March 19, 2013

Herbert C. Hoover Building (HCHB)
U.S. Department of Commerce
National Telecommunications and Information Administration
1401 Constitution Avenue, N.W.
Washington, D.C. 20230

RE: Wyoming-State Designated Officer:

The Middle Class Tax Relief and Job Creation Act of 2012, establishes the requirement for the First Responder Network Authority (FirstNet) to consult with a State designated officer.

I hereby designate the Broadband Enterprise Architect as the State of Wyoming's coordinator for the nationwide Public Safety Broadband Network (PSBN) and serve as the point of contact for consultation with FirstNet. The Broadband Enterprise Architect resides within the Department of Enterprise Technology Services (ETS) and serves the State Chief Information Officer.

Sincerely,



Matthew H. Mead
Governor

MHM:mh