

SLIGP 2.0 Grant Closeout Report				2. Award or Grant Number:	42-10-S18042
				4. EIN:	25-1671669
1. Recipient Name	Pennsylvania State Police			6. Report Date (MM/DD/YYYY)	09/28/2020
3. Street Address	1800 Elmerton Avenue			7. Reporting Period End Date: (06/30/2020)	06/30/2020
5. City, State, Zip Code	Harrisburg, PA 17110-9718			8. Final Report	
				Yes <input checked="" type="checkbox"/>	
				No <input type="checkbox"/>	
9. Project/Grant Period				10. Reserved for Reviewer	
9a. Start Date: (MM/DD/YYYY)	03/01/2018	9b. End Date: (MM/DD/YYYY)	06/30/2020		
11. Program Activities					
11a. Identify the activities you performed during SLIGP2.0 grant period of performance					
	Activity Type (Planning, Governance Meetings, etc.)	Was this Activity Performed during the grant period? (Yes/No)	Total Project Deliverable Quantity (Number)	Description of Activity Deliverable Quantity	
1	Governance Meetings	Yes	3	Cumulative number of governance, subcommittee, or working group meetings related to the NPSBN held during the grant period	
2	Individuals Sent to Broadband Conferences	No	0	Cumulative number of individuals sent to national or regional third-party conferences with a focus or training track related to the NPSBN using SLIGP 2.0 grant funds during the grant period	
3	Convened Stakeholder Events	Yes	22	Cumulative number of events coordinated or held using SLIGP 2.0 grant funds during the grant period, as requested by FirstNet.	
4	Staff Hired (Full-Time Equivalent)(FTE)	Yes	0.86	Cumulative number of state/territory personnel FTEs who began supporting SLIGP 2.0 activities during the grant period (may be a decimal).	
5	Contracts Executed	Yes	2	Cumulative number of contracts executed during the grant period.	
6	Subrecipient Agreements Executed	No	0	Cumulative number of agreements executed during the grant period.	
7	Data Sharing Policies/Agreements Developed	No		Yes or No if data sharing policies and/or agreements were developed during the grant period.	
8	Further Identification of Potential Public Safety Users	No		Yes or No if further identification of potential public safety users occurred during the grant period.	
9	Plans for Emergency Communications Technology Transitions	No		Yes or No if plans for future emergency communications technology transitions occurred during the grant period.	
10	Identified and Planned to Transition PS Apps & Databases	No		Yes or No if public safety applications or databases within the State or territory were identified and transition plans were developed during the grant period	
11	Identify Ongoing Coverage Gaps	No		Yes or No if participated in identifying ongoing coverage gaps using SLIGP 2.0 funds during the grant period.	
12	Data Collection Activities	No		Yes or No if participated in data collection activities as requested by FirstNet	

11b. Please provide a description of each activity reported in response to Question 11; any challenges or obstacles encountered and mitigation strategies you employed; and any additional project milestones or information.

All previously scheduled stakeholder meetings for the April through June 2020 reporting period were cancelled due to the COVID 19 pandemic. We met virtually with the AT&T Radio Access Network (RAN) team in May to review the status of the new AT&T macrocell builds for FirstNet in Pennsylvania. Prior to this most recent quarter, we convened a total of 22 stakeholder events throughout the grant's period of performance. We did not send our team members to broadband conferences during the grant, but our SPOC did present and/or review PA-FirstNet topics at three governance meetings which are held to provide oversight for the statewide radio network in Pennsylvania and also covers FirstNet topics as well. All of our work on the FirstNet project was handled by a team of personnel that also fulfill other duties within the organization. We started the project with a Single Point of Contact (SPOC), a Deputy SPOC, our Statewide Interoperability Coordinator (SWIC), our Policy Specialist and Administrative Officer facilitating the project but also pulled in more technical expertise through our GIS personnel and Radio Manager when necessary. As the project progressed and we explored areas where FirstNet would benefit the Commonwealth of Pennsylvania and the Pennsylvania State Police, we looked into the use of HSIN, the Homeland Security Information Network, to share data between disparate networks. We also had in depth conversations with AT&T regarding the use of FirstNet for transfer of our Radio communications through to personnel not carrying a portable radio but in possession of an LTE device. The functionality of actually using Land Mobile Radio (LMR) communications over Long Term Evolution (LTE) required significant communication between our technical personnel and AT&T's personnel only to realize that the systems were incompatible until AT&T advances to the 3GPP standard.

**11c. Did you perform activities during the last quarter of the grant that haven't been reported previously (i.e., new programmatic activities, staffing changes)? If so, please describe.**

Unfortunately all stakeholder events and governance meetings that had been scheduled for our final quarter of the award period were cancelled due to public health concerns. We did not bring on any new staff to work on the project during this quarter. Most of the activities performed during the April through June 2020 time period, were associated with tying up loose ends and making sure that all of our time was tracked and invoices were paid which included review of final deliverables. We did meet virtually with the AT&T Radio Access Network in May to discuss the progress made on the new macrocells promised to Pennsylvania to fill gaps in coverage. All of the time that our team contributed to the project was tracked in sharepoint. As with past quarters, the expenditures for our time devoted to the project was processed in July so that we could capture the entire quarter's time.

**11d. Please share any lessons learned or best practices that your organization implemented during your SLIGP 2.0 project.**

We collected information on the stakeholders attending our meetings as well as the locations of all meetings. While we didn't initially intend to use the information toward our state match, we had all of the information we needed and ended up using it once the project team's time fell short of what was anticipated. Additionally we added the team's time researching the use of HSIN for data sharing at incidents when not all of the responding personnel were FirstNet subscribers, once approved by our NTIA Federal Project Officer. Our time working with AT&T working through interoperability challenges for an LMR to LTE solution was also included which brought on additional personnel to the project as well.

12. Personnel		
12a. Staffing Table - Please include all staff that contributed time to the project with utilization. Please only include government staff employed by the state/territory NOT contractors.		
Job Title	FTE%	Project (s) Assigned
Deputy SPOC	0%	Project leadership, RFQ scoring, AT&T/FN Consultation, outreach presentations
Policy Specialist	15%	RFQ scoring, policy management, AT&T/FN consultation, NSIN, SCIP Appendix, White Paper review
Administrative Officer	3%	RFQ scoring, project management, grant administration, AT&T/FN consultation, outreach presentations
SPOC	0%	Project leadership, AT&T/FN consultation
SWIC	0%	AT&T/FN consultation, outreach presentations
GIS Manager	0%	Great GIS depictions of where AT&T towers are to located, AT&T/FN consultation
Radio Manager	0%	LMR/LTE Integration

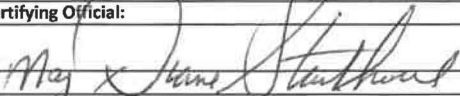
13. Contractual (Contract and/or Subrecipients)								
13a. Contractual Table – Include all contractors. The totals from this table should equal the “Contractual” in Question 14f.								
Name	Subcontract Purpose	Type (Contract/Subrec.)	RFP/RFQ Issued (Y/N)	Contract Executed (Y/N)	Start Date	End Date	Total Federal Funds Allocated	Total Matching Funds Allocated
LeGrande Technical and Social Services	Project management, Public Safety Expert, Technical Expert	Contract	Y	Y	7/1/2018	6/30/2020	\$796,078.44	\$0.00
Constant Contact Subscription	Retention of Stakeholder contact information	Contract	N	Y	3/1/2018	6/30/2020	\$2,068.50	\$0.00
<b>Total Funds Allocated to Contracts</b>							<b>\$798,146.94</b>	<b>\$0.00</b>

14. Budget Worksheet						
Columns 2, 3 and 4 must match your project budget for the entire award and your final SF 424A. Columns 5, 6, and 7 should list your final budget figures, cumulative through the last quarter						
Project Budget Element (1)	Federal Funds Awarded (2)	Approved Matching Funds (3)	Total Budget (4)	Final Federal Funds Expended (5)	Final Approved Matching Funds Expended (6)	Final Total Funds Expended (7)
a. Personnel Salaries	\$0.00	\$159,803.00	\$159,803.00	\$0.00	\$95,063.51	\$95,063.51
b. Personnel Fringe Benefits	\$0.00	\$120,197.00	\$120,197.00	\$0.00	\$72,210.21	\$72,210.21
c. Travel	\$22,220.00	\$0.00	\$22,220.00	\$0.00	\$0.00	\$0.00
d. Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
e. Materials/Supplies	\$9,016.00	\$0.00	\$9,016.00	\$0.00	\$0.00	\$0.00
f. Contractual	\$1,072,264.00	\$0.00	\$1,072,264.00	\$798,146.94	\$0.00	\$798,146.94
g. Other	\$16,500.00	\$0.00	\$16,500.00	\$545.12	\$41,630.70	\$42,175.82
h. Indirect	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
i. Total Costs	\$1,120,000.00	\$280,000.00	\$1,400,000.00	\$798,692.06	\$208,904.42	\$1,007,596.48
j. Proportionality Percent	80%	20%	100%	79%	21%	100%

15. Additional Questions: Read each statement below. Rate your level of agreement or disagreement with each statement and answer follow-up questions to provide additional information.			
Statement	Agree/Disagree	Additional Questions	Response
15a. SLIGP 2.0 funds were helpful in planning for the integration with the NPSBN.	4-Agree	What was most helpful? What challenges did you encounter?	The ability to hire consultant staff to assist with understanding the LTE technology, its limitations and capabilities, was helpful to our staff as well as our stakeholder community. The largest challenge that we encountered was the current lack of interoperability between the existing LTE service and our LMR network since they are incompatible until AT&T upgrades to the 3GPP standard. Due to our grant ending in June of 2020, we were not able to get this functionality to work during the award period.
15b. I plan to continue any SLIGP 2.0 program activities beyond the SLIGP 2.0 period of performance.	4-Agree	What do you plan to accomplish after the period of performance?	The PA-FirstNet team intends to continue to receive updates on the new macrocell builds from AT&T's Radio Access Network Team. While we do not intend to provide updates to stakeholders moving forward through in person meetings, we may assist in FirstNet providing Webinar updates or sharing of information received from AT&T regarding improvements in network coverage. Our team will continue to address our stakeholders in regard to the existing LMR and may begin to address progress with the LMR to LTE interoperability once that connection is operational.

<p>15c. SLIGP 2.0 funds were helpful in informing my stakeholders about FirstNet.</p>	<p>4-Agree</p>	<p>What was most helpful? What challenges did you encounter?</p>	<p>The funding we received for SLIGP 2.0 was used for consultation with AT&amp;T's Radio Access Network (RAN) team. During these meetings, we received updates on AT&amp;T's efforts to build and deploy 25 new macrocells within the Commonwealth of Pennsylvania as well as their efforts to obtain FirstNet subscriptions. We met with the RAN team on a quarterly basis throughout the grant period and anticipate receiving updates from them until all of the promised cell sites are constructed. During these sessions, AT&amp;T would also share with us their "business as usual" improvements to coverage within Pennsylvania. We used the grant funds to meet with our stakeholders to address any concerns that our stakeholders might have including areas that lack adequate coverage and also to provide updates as to whether or not one of the agreed upon locations for a new FirstNet tower would address the stakeholder's concerns. The greatest challenge was that our stakeholders had been receiving FirstNet and PA-FirstNet updates continually for multiple years and with minimal new information to present, were becoming unwilling to add our update to their already existing meeting. We typically met with already existing groups of public safety personnel that meet on a regular basis. Some of the groups were engaging and shared significant information to our team as well as to the FirstNet/AT&amp;T team while other groups simply listened to the information and sent us on our way. I believe if there had been more information made available such as when the 3GPP standard would be reached for the FN/AT&amp;T offering and actually been able to provide it over the existing Statewide Radio Network to these Stakeholders, it may have changed the meeting significantly because it would change the operational effectiveness.</p>
<p><b>Statement</b></p>	<p><b>Agree/Disagree</b></p>	<p><b>Additional Questions</b></p>	<p><b>Response</b></p>
<p>15d. SLIGP 2.0 funds were helpful in maintaining a governance structure for broadband in my state/territory.</p>	<p>2-Disagree</p>	<p>What was most helpful? What challenges did you encounter?</p>	<p>The governance structure in Pennsylvania covers more than just the FirstNet project and is therefore going to continue with our without funding for FirstNet. Our stucture covers the entire Statewide Radio Network in Pennsylvania with FirstNet as a subject that falls under the Statewide Radio Network umbrella since the personnel that provide most of the programmatic and grant expertise on our FirstNet project also fall under the Statewide Radio office within the Bureau of Communications and Information Services of the Pennsylvania State Police. The actual governance structure is formed by various personnel from multiple agencies within the Commonwealth of Pennsylvania, not only the Pennsylvania State Police.</p>
<p>15e. SLIGP 2.0 funds provided resources that were helpful in preparing for FirstNet planning activities in my state/territory (e.g. staffing, attending broadband conferences, participating in training, procuring contract support etc.).</p>	<p>4-Agree</p>	<p>What was most helpful? What challenges did you encounter?</p>	<p>The funding we received for SLIGP 2.0 was used for continual consultation with AT&amp;T's Radio Access Network (RAN) team. During these meetings, we received updates on AT&amp;T's efforts to build and deploy 25 new macrocell structures within the Commonwealth of Pennsylvania as well as their efforts to obtain FirstNet subscriptions. We met with the RAN team on a quarterly basis throughout the grant period and anticipate receiving updates from them until all of the towers are constructed. During these sessions, AT&amp;T would also share with us their "business as usual" improvements to coverage within Pennsylvania. We used the grant funds to meet with our stakeholders to address any concerns that our stakeholders might have including areas that lack adequate coverage and also to provide updates as to whether or not one of the agreed upon locations for a new FirstNet tower would address the stakeholder's concerns. The greatest challenge was that our stakeholders had been receiving FirstNet and PA-FirstNet updates continually for multiple years and were becoming unwilling to add our update to their already existing meeting. We typically met with already existing groups of public safety personnel that met on a regular basis. Some of the groups were engaging and shared significant information to our team as well as to the FirstNet/AT&amp;T team while other groups simply listened to the information and sent us on our way. I believe if there had been more information made available such as when the 3GPP standard would be reached for the FN/AT&amp;T offering and actually been able to provide it over the existing Statewide Radio Network to these Stakeholders, it may have changed the meeting significantly because it would change the operational effectiveness.</p>
<p>15f. Overall, SLIGP 2.0 funds were helpful in preparing for FirstNet.</p>	<p>4-Agree</p>	<p>What was most helpful? What challenges did you encounter?</p>	<p>Our most significant challenge was trying to keep the message to stakeholders fresh and interesting. Because there were not many new developments during the span of the project and the macrocell builds were not moving quickly, we did not have much new information to share with stakeholders. After a few presentations, our requests to meet with them regarding FirstNet were met with resistance.</p>

16. Certification: I certify to the best of my knowledge and belief that this report is correct and complete for performance of activities for the purpose(s) set forth in the award documents.

<p>16a. Typed or printed name and title of Authorized Certifying Official:</p>	<p>16c. Telephone:</p>	<p>717-346-5346</p>
<p>Diane Stackhouse, Bureau Director</p>	<p>16d. Email Address:</p>	<p>djstackhou@pa.gov</p>
<p>16b. Signature of Authorized Certifying Official:</p>		

9/16/2020

	16e. Date:	09/16/2020
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