

MILESTONE CATEGORIES

All projects must be completed within three years following the date of the issuance of the award.

Please use the table provided to indicate your anticipated number of activities you plan to complete each quarter for every year of your project. Year One begins July 1, 2013. Please include any data attributable to early activities (i.e., January - June 2013) in your baseline data for "Q1, Year 1."

Please also provide a brief description (100 words or less) of the primary activities involved in meeting each milestone (a single description should be provided for each milestone, covering all quarters in years one through three). Please write "N/A" if your project does not include an activity. If necessary, please insert additional milestones at the bottom of the chart.

[illegible]

10. Phase 2	Will be developed as Phase 2 activities are defined.													

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State of South Dakota SLIGP Cost Class Category Federal Expenditures

The completion of your project budget (federal funds) should be reported in the quarter you are anticipating expending the funds. Year One begins July 1, 2013. Please include any data attributable to early activities (i.e., January - June 2013) in your baseline data for "Q1, Year 1."

Quarterly Cost Category Expenditures	TOTAL FEDERAL	YEAR 1				YEAR 2				YEAR 3			
		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
a. Personnel													
b. Fringe Benefits													
c. Travel	240,579	6,500	16,500	46,500	76,500	106,500	126,500	146,500	166,500	186,500	206,500	226,500	240,579
d. Equipment	21,000					21,000							21,000
e. Supplies	20,439		3,000	8,000	13,000	16,000	17,000	18,000	18,500	19,000	19,500	20,000	20,439
f. Contractual	843,000	10,000	37,000	119,800	202,600	283,400	354,200	425,000	495,800	611,600	712,400	813,200	843,000
g. Construction													
h. Other	113,085	528	7,403	34,101	60,799	68,697	76,095	83,493	90,891	98,289	105,687	113,085	113,085
i. Total Direct Charges (sum of a-h)	1,238,103	17,028	63,903	208,401	352,899	495,597	573,795	672,993	771,691	915,389	1,044,087	1,172,785	1,238,103
j. Indirect Charges													
k. TOTAL (sum i and j)	1,238,103	17,028	63,903	208,401	352,899	495,597	573,795	672,993	771,691	915,389	1,044,087	1,172,785	1,238,103

Cost Class Category Non-Federal Expenditures

The completion of your project budget (non-federal, matching funds) should be reported in the quarter you are anticipating expending the funds. Year One begins July 1, 2013. Please include any data attributable to early activities (i.e., January - June 2013) in your baseline data for "Q1, Year 1."

Quarterly Cost Category Expenditures	TOTAL NON-FEDERAL	YEAR 1				YEAR 2				YEAR 3			
		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
a. Personnel	55,683	500	5,533	10,566	15,599	20,632	25,665	30,698	35,731	40,764	45,797	50,830	55,683
b. Fringe Benefits	11,137	111	1,113	2,115	3,117	4,119	5,121	6,123	7,125	8,128	9,131	10,341	11,137
c. Travel	127,684	7,000	14,500	23,500	41,000	51,000	61,000	71,000	88,500	96,000	103,500	120,184	127,684
d. Equipment													
e. Supplies	28,984		500	3,500	9,500	15,500	17,500	19,500	21,500	23,500	25,500	27,500	28,984
f. Contractual	51,000	5,000	10,000	20,000	30,000	40,000	46,000	51,000	51,000	51,000	51,000	51,000	51,000
g. Construction													
h. Other	35,040	1,790	7,790	12,790	17,790	19,665	21,540	23,415	26,415	28,290	30,165	33,165	35,040
i. Total Direct Charges (sum of a-h)	309,528	14,401	39,436	72,471	117,006	150,916	176,826	201,736	230,271	247,682	265,093	293,020	309,528
j. Indirect Charges													
k. TOTAL (sum i and j)	309,528	14,401	39,436	72,471	117,006	150,916	176,826	201,736	230,271	247,682	265,093	293,020	309,528

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Recipient Name: South Dakota Bureau of Information and Telecommunications

MILESTONE CATEGORIES

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Please use the table provided to indicate your anticipated number of activities you plan to complete each quarter for every year of your project. Year One begins July 1, 2013. Please include any data attributable to early activities (i.e., January - June 2013) in your baseline data for “Q1, Year 1.”

Please also provide a brief description (100 words or less) of the primary activities involved in meeting each milestone (a single description should be provided for each milestone, covering all quarters in years one through three). Please write “N/A” if your project does not include an activity. If necessary, please insert additional milestones at the bottom of the chart.

MILESTONE ACTIVITY CATEGORIES	Description of Activity	TOTAL	Quarter Ending												
			Q1-7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19
			9/30/2013-3/31/2015	6/30/2015	9/30/2015	12/31/2015	3/31/2016	6/30/2016	9/30/2016	12/31/2016	3/31/2017	6/30/2017	9/30/2017	12/31/2017	3/31/2018
1. Stakeholder Meetings (Number of individuals reached via stakeholder meetings)	South Dakota is a general mix of makeup for first-responder agencies. Typically law enforcement and emergency management are paid services, but fire, EMS, and other services are operated on a volunteer basis. We plan to attend as many state-wide meetings/conferences as possible, and make on-site visits when asked as needed. Also includes subcommittee meetings for broadband, and national/regional meetings dealing with FirstNet.	1381	406	75	100	75	75	75	100	75	75	75	100	75	75
2. Broadband Conferences	Personnel from the state, regional contractors, subcommittee members that will be attending broadband conferences	50	24	4	0	4	0	4	0	4	0	4	0	4	2
3. Staff Hires (Full Time Equivalent)	We have one full time program manager. We anticipate this to be our only full time person dedicated to this program.	1	1												
4. Contract Executions	Contracts will need to be established for: Web Development Regional Consultant GIS Expertise Design/Development of outreach materials Review and analyze the draft state plan Coordinate Phase 2 data and product to be delivered to FirstNet Special tools/information to help with data collection	6	0	1	1	1	1	2							

5. Governance Meetings	We have not had any governance meeting specific to the SLIGP process, but have governance meetings in which the NPSBN (FirstNet) is a standing agenda item. The formation of the broadband subcommittee was also an agenda item.	20	8	1	1	1	1	1	1	1	1	1	1	1
6. Education and Outreach Materials	Specific materials such as flyers, brochures, newsletters, letters, informational letters, etc.). We are estimating of printing for mailing 900 professional outreach materials on a monthly basis. Mailing audience will be an exponential of that.	11553	3434	619	1500	600	600	600	600	600	600	600	600	600
7. Subrecipient Agreements Executed	We do not anticipate any subrecipient agreements.													
8. Phase 2 - Coverage		N/A		1,2	1,2,3,4	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6
9. Phase 2 - Users and their Operational Areas		N/A		1,2	1,2,3,4	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6
10. Phase 2- Capacity Planning		N/A		1,2	1,2,3,4	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6
11. Phase 2 -Current Providers/Procurement		N/A		1,2	1,2,3,4	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6
12. Phase 2 - State Plan Decision		N/A		1	1	1	1	2,3	5,6	5,6	5,6	5,6	5,6	5,6

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Cost Class Category Federal Expenditures

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Quarterly Cost Category Expenditures	TOTAL FEDERAL	Quarter Ending												
		Q1-7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19
		9/30/2013- 3/31/15	6/30/2015	9/30/2015	12/31/2015	3/31/2016	6/30/2016	9/30/2016	12/31/2016	3/31/2017	6/30/2017	9/30/2017	12/31/2017	3/31/2018
a. Personnel	\$ 336,787.00	\$ 34,129.80	\$ 59,351.30	\$ 84,572.80	\$ 109,794.10	\$ 135,015.80	\$ 160,237.10	\$ 185,458.80	\$ 210,680.10	\$ 235,901.80	\$ 261,123.30	\$ 286,344.80	\$ 311,566.30	\$ 336,787.00
b. Fringe Benefits	\$ 67,357.00	\$ 7,832.78	\$ 12,792.00	\$ 17,752.00	\$ 22,712.00	\$ 27,672.00	\$ 32,632.00	\$ 37,592.00	\$ 42,552.00	\$ 47,512.00	\$ 52,472.00	\$ 57,432.00	\$ 62,392.00	\$ 67,357.00
c. Travel	\$ 21,000.00	\$ 5,023.94	\$ 6,356.00	\$ 7,688.00	\$ 9,020.00	\$ 10,352.00	\$ 11,684.00	\$ 13,016.00	\$ 14,341.00	\$ 15,672.00	\$ 17,003.00	\$ 18,334.00	\$ 19,665.00	\$ 21,000.00
d. Equipment														
e. Supplies	\$ 29,720.00		\$ 2,477.00	\$ 4,954.00	\$ 7,431.00	\$ 9,908.00	\$ 12,385.00	\$ 14,862.00	\$ 17,339.00	\$ 19,816.00	\$ 22,293.00	\$ 24,770.00	\$ 27,247.00	\$ 30,040.00
f. Contractual	\$ 611,000.00	\$ 1,236.00	\$ 54,527.00	\$ 107,818.00	\$ 161,109.00	\$ 214,400.00	\$ 267,691.00	\$ 320,982.00	\$ 374,273.00	\$ 427,564.00	\$ 480,855.00	\$ 534,146.00	\$ 587,437.00	\$ 611,000.00
g. Construction														
h. Other	\$ 145,800.00	\$ 666.58	\$ 12,816.58	\$ 24,966.58	\$ 37,116.58	\$ 49,266.58	\$ 61,416.58	\$ 73,566.58	\$ 85,716.58	\$ 97,866.58	\$ 110,016.58	\$ 122,166.58	\$ 134,316.58	\$ 171,918.00
i. Total Direct Charges (sum of a-h)	\$ 1,238,102.00	\$ 49,086.94	\$ 148,319.88	\$ 247,751.38	\$ 347,182.68	\$ 446,614.38	\$ 546,045.68	\$ 645,477.38	\$ 744,901.68	\$ 844,332.38	\$ 943,762.88	\$ 1,043,193.38	\$ 1,142,623.88	\$ 1,238,102.00
j. Indirect Charges	\$ -													
k. TOTAL (sum i and j)	\$ 1,238,102.00	\$ 49,086.94	\$ 148,319.88	\$ 247,751.38	\$ 347,182.68	\$ 446,614.38	\$ 546,045.68	\$ 645,477.38	\$ 744,901.68	\$ 844,332.38	\$ 943,762.88	\$ 1,043,193.38	\$ 1,142,623.88	\$ 1,238,102.00

Cost Class Category Non-Federal Expenditures

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Quarterly Cost Category Expenditures	TOTAL NON-FEDERAL	Quarter Ending												
		Q1-7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19
		9/30/2013- 3/31/2015	6/30/2015	9/30/2015	12/31/2015	3/31/2016	6/30/2016	9/30/2016	12/31/2016	3/31/2017	6/30/2017	9/30/2017	12/31/2017	3/31/2018
a. Personnel	\$ 110,777.00	\$ 24,817.12	\$ 31,981.12	\$ 39,145.12	\$ 46,309.12	\$ 53,473.12	\$ 60,637.12	\$ 67,801.12	\$ 74,965.12	\$ 82,129.12	\$ 89,293.12	\$ 96,457.12	\$ 103,621.12	\$ 110,777.00
b. Fringe Benefits	\$ 22,155.00	\$ 3,414.84	\$ 4,977.00	\$ 6,539.00	\$ 8,101.00	\$ 9,663.00	\$ 11,225.00	\$ 12,787.00	\$ 14,349.00	\$ 15,911.00	\$ 17,473.00	\$ 19,035.00	\$ 20,597.00	\$ 22,155.00
c. Travel	\$ 144,209.00	\$ 11,521.35	\$ 22,579.35	\$ 33,637.35	\$ 44,695.35	\$ 55,753.35	\$ 66,811.35	\$ 77,869.35	\$ 88,927.35	\$ 99,985.35	\$ 111,043.35	\$ 122,101.35	\$ 133,159.35	\$ 144,209.00
d. Equipment														
e. Supplies	\$ 356.00	\$ 355.79	\$ 356.00	\$ 356.00	\$ 356.00	\$ 356.00	\$ 356.00	\$ 356.00	\$ 356.00	\$ 356.00	\$ 356.00	\$ 356.00	\$ 356.00	\$ 356.00
f. Contractual	\$ 25,440.00		\$ 7,203.00	\$ 7,203.00	\$ 7,203.00	\$ 7,203.00	\$ 14,406.00	\$ 14,406.00	\$ 14,406.00	\$ 14,406.00	\$ 21,609.00	\$ 21,609.00	\$ 21,609.00	\$ 25,440.00
g. Construction	\$ -													
h. Other	\$ 6,591.00		\$ 700.00	\$ 1,400.00	\$ 2,100.00	\$ 2,800.00	\$ 3,500.00	\$ 4,200.00	\$ 4,900.00	\$ 5,600.00	\$ 6,000.00	\$ 6,000.00	\$ 6,591.00	\$ 6,591.00
i. Total Direct Charges (sum of a-h)	\$ 309,528.00	\$ 40,109.10	\$ 67,796.47	\$ 88,280.47	\$ 108,764.47	\$ 129,248.47	\$ 156,935.47	\$ 177,419.47	\$ 197,903.47	\$ 218,387.47	\$ 245,774.47	\$ 265,558.47	\$ 285,933.47	\$ 309,528.00
j. Indirect Charges	\$ -													
k. TOTAL (sum i and j)	\$ 309,528.00	\$ 40,109.10	\$ 67,796.47	\$ 88,280.47	\$ 108,764.47	\$ 129,248.47	\$ 156,935.47	\$ 177,419.47	\$ 197,903.47	\$ 218,387.47	\$ 245,774.47	\$ 265,558.47	\$ 285,933.47	\$ 309,528.00

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ORIGINAL					
Category	Detailed Description of Budget (for full grant period)			Breakdown of Costs	
a. Personnel	Quantity	Unit Cost	Total Cost	Federal	Non-Federal
<u>Chief Terminal Officer (CTO)</u> The CTO will spend 10% of his time working with the Project Manager and Governance body to identify integrate existing state and local databases. Salary is \$59,009	3 years	\$5,901	\$17,703		\$17,703
<u>Radio System Chief Engineer</u> The Radio System Chief will be involved with identifying potential users for outreach through the radio system database. 10% of time, salary is \$57,180	3 years	\$5,718	\$17,154		\$17,154
 <u>Program Manager</u> The Program Manager will organize meetings of the governance and subcommittee's, arrange meeting places and travel reimbursement. 10% of time, salary is \$51,022	3 years	\$5,102	\$15,306		\$15,306
<u>West River Radio Tech</u> The radio techs will assist the contractors with outreach and identifying locals to interface with. Also technical support to contractors as needed. 2% of time, salary is \$46,009	3 years	\$920	\$2,760		\$2,760
<u>East River Radio Tech</u> The radio techs will assist the contractors with outreach and identifying locals to interface with. Also technical support to contractors as needed. 2% of time, salary is \$46,009	3 years	\$920	\$2,760		\$2,760
 <u>SWIC/Project Manager</u> The SWIC/Project Manager is funded through user fee's and therefore cannot be used for match purposes. Travel expenses can be prorated, and this position is expected to be 30% of FTE time					
 <u>BIT Telecommunications Secretary</u> The BIT Telecommunications Secretary is funded through users fees and therefore cannot be used for match purposes. Travel expenses can be prorated, and this position is expected to be 10% of FTE time					
Total Personnel			\$55,683	\$0	\$55,683
b. Fringe Benefits	Quantity	Unit Cost	Total Cost	Federal	Non-Federal
Chief Terminal Officer	\$17,703	20%	\$3,541		\$3,541
Radio System Chief Engineer	\$17,154	20%	\$3,431		\$3,431
Program Manager	\$15,306	20%	\$3,061		\$3,061
West River Radio Tech	\$2,760	20%	\$552		\$552
East River Radio Tech	\$2,760	20%	\$552		\$552
Total Fringe Benefits			\$11,137	\$0	\$11,137
c. Travel	Quantity	Unit Cost	Total Cost	Federal	Non-Federal
 South Dakota is a state of 77,000+ square miles, so travel is a major consideration. The following are broken out by category. Rates are mileage charged by South Dakota Fleet and Travel. All travel will be to directly support the SLIGP process through direct meetings or scheduled conferences.					
1. (State) In-state vehicle. SUV/Truck. Radio techs (two) assisting in outreach and data collection programs. Appx 11 trips each at 200 miles, per year	13,200	\$0 50	\$6,600		\$6,600

2. (State) In State vehicle. Sedan. Project manager (23) and Chief Radio Engineer (15) each will commute to an average of 20 meetings per year @ 300 miles, program manager and Chief Terminal officer to an average of 6 meetings per year @ 300 miles. Also mileage to and from airports for out of state meetings (1,200 miles)	48,800	\$0.37	\$18,056		\$18,056
3. (POV) Mileage rate of 56.5 cents/mile is the POV low rate for state reimbursement. We expect the contractors to be on the road for an average of 3 days per working week in each of their regions (156 trips/year @ appx. 200 miles per contractor for a total of 280,800 miles) in order to interface with the responders in their areas. This also factors in the broadband subcommittee (10 members requiring out of town mileage, 300 mile round trip x 6 meetings per year for a total of 54,000 miles), and SCIP update meetings (1 meeting per year for 10 members @ 300 miles requiring round trip mileage)10 x 300 x 3 years = 9,000 miles.	343,800	\$0.565	\$194,247	\$194,247	
4. Lodging (In-state) \$50 rate is state maximum for in-state lodging. Calculating in-state meetings and conferences for state personnel and contractors requiring overnight travel. Expecting contractors (3) to have an average of 104 nights on road per year (936) +20 Broadband Subcommittee members meeting 6 times a year for three years (50% requiring rooms for a total of 180 rooms) + 45 total rooms per year for Project manager, Chief Engineer, Program Manager, and Control Terminal Officer for regional in-state meetings and other related meetings requiring overnight stay. (Calculating a single night per meeting) for a total of 135.	1,251	\$50	\$62,550		\$62,550
5. Lodging (out of state) \$150 rate is maximum allowable under state guidelines. Calculating costs with sending state personnel, local personnel, and contractors to annual meetings, regional meetings, and other specific related out of state travel. Contractors: 2 conference/meetings per year for 3 years (3 nights lodging per meeting) = 54, Project Manager: total of 7 conferences/meetings over the 3 years (3 nights lodging per meeting)=21, Broadband subcommittee members (2 travel) attend 2 conferences/meetings per year for 3 years (3 nights lodging per meeting = 36,	111	\$150	\$16,650		\$16,650

6. Air Travel. Estimating \$500/trip based upon experience. Travel for associated state and local personnel and contractors to travel to out of state meetings. Contractors will have a total of 18 trips over the 3 years, Project Manager will have 7, and the broadband subcommittee members will have 12. This correlates with the out of state lodging above.	37	\$500	\$18,500		\$18,500
7. Per Diem (In State) State allowance is \$26 in state. Per-diem allowed for associated state and local personnel, and contractors for NPSBN business within the state. Contractors 3 trips per week for 52 weeks each = 156 per contractor per year. Extended to 3 contractors is 468 per year or 1404 over the three years. Project Manager, Program Manager, and Chief Engineer will have 20 trips per year for a total of 180 over the three years, the Chief Terminal Officer will have 6 trips per year for a total of 18, Broadband subcommittee will have 6 meetings per year (50% will need out of town per diem or 10 of the 20), 10 members x 6 meetings per year x 3 years = 180. 1404+180+18+180=1,782	1,782	\$26	\$46,332	\$46,332	
8. Per Diem (Out of State) State allowance for out of state pre-diem is \$36/day. Travel for associated out of state meetings for state, local, and contracted personnel. Contractors: 2 conference/meetings per year for 3 years (3 days per diem per meeting + 1 travel day) =72, Project Manager: total of 7 conferences/meetings over the 3 years (3 days per diem per meeting + 1 day travel)=28, Broadband subcommittee members (2 travel) attend 2 conferences/meetings per year for 3 years (3 days per diem per meeting + 1 day travel) = 48,	148	\$36	\$5,328		\$5,328
Total Travel			\$368,263	\$240,579	\$127,684
d. Equipment	Quantity	Unit Cost	Total Cost	Federal	Non-Federal
Equipment for Phase 2 data collection. Anticipating based upon the state SBI/BTOP process that server and SAN equipment may be needed for this phase. Will be further defined upon commencement of phase 2. Cost estimate based upon state process for SBI and BTOP programs.	1	\$21,000	\$21,000	\$21,000	
Total Equipment			\$21,000	\$21,000	\$0
e. Supplies	Quantity	Unit Cost	Total Cost	Federal	Non-Federal

Supplies and materials will be the office supplies and other equipment needed to set up operations for the three contractors. It will also include educational and informational publishing costs, and software to assist in the daily operations of the contractors and other involved parties. IT equipment pricing from State of South Dakota contracts					
1. Phase 2 Tools The State of South Dakota recognizes that certain tools for Phase 2 data collection will be needed as those requirements are developed. Cost based upon South Dakota Broadband Initiative program expenses.	1	\$10,000	\$10,000		\$10,000
2 Paper products, cds's flash drives and other office supplies for the three contractors and also the main BIT office for SLIGP-based activities. Outside of professional publications and mailers, we plan to do a lot of our own presentation materials. For each of the 3 offices we would expect: paper/ink products -- \$50/month (\$150 extended), cd's/DVD's for duplication of presentations and resources for locals, \$50/month (\$150 extended), one-time business card production (\$300/ 36 months = \$24/month extended), file cabinets (one time \$1,000/ 36 months = \$28 (\$84 extended), office desks, chairs etc., one time \$3,600/36 months = \$100/month	36 months	\$508	\$18,288	\$18,288	
3. Laptop computers for regional coordinators with docking state and external monitor for office use.	3	\$2,128	\$6,384		\$6,384
4. Smart Phones for regional coordinators	3	\$200	\$600		\$600
5. Copy/Scan/Printers	3	\$717	\$2,151	\$2,151	
6. Supplies for Phase 2 data collection. Anticipating that supplies and materials will be needed for this phase for each contractor.	3	\$4,000	\$12,000		\$12,000

1. Printing and publishing costs associated with outreach daily operations of the SLIGP process. Will leverage FirstNet generated materials, but will need State specific materials. For each of the contractors we are estimating an average cost of \$300 to generate approximately 150 professional outreach materials (flyers, brochures, etc.) at an average cost of \$2 each month. Additionally, a monthly newsletter (500) will be generated at a cost of \$1 each. Total cost per month for printing/publishing: \$900/month for professional printing, another \$500/month for newsletter, total \$1,400/month.	36 Months	\$1,400	\$50,400	\$50,400	
					\$11,340
2. Mailing costs. We expect in order to keep all of the user community and decision makers informed that regular correspondence, including monthly newsletters will be mailed to agencies and individuals. Estimated bulk-rate mailing cost of \$105/month for each contractor.	36 Months	\$315.00	\$11,340		
3. Mobile Phone service for 3 Contractors, \$75/month with data service	36 months	\$225	\$8,100		\$8,100
4. Office internet/data service for 3 Contractors, estimating \$100/month average. (\$300/Month extended)	36 months	\$300.00	\$10,800		\$10,800
5. Teleconference/web conference for Contractors. Services to allow collaboration of the three contractors between themselves and state personnel to provide consistency of communications to our stakeholders. \$50 is an average rate that we have found for a limited seat service for each contractor. (\$150 extended)	36 Months	\$150	\$5,400	\$5,400	
6. Space billing. It would be our intent to have the contractors operating from a state-owned facility if we can, to provide public access to our contractors. Based upon current space-billing rates, we expect that the cost for space and associated services to be around \$500/month. (\$1500/month extended). Current space billing from the Bureau of Administration is \$12.73/square foot, so a 20' x 25', 500 square feet office would allow for a office setup plus a reasonable meeting space for smaller gatherings. 500 x \$12.73 is \$6,365/year per contractor, or \$19,095 annually x three contractors.;	3 years	\$19,095.00	\$57,285	\$57,285	

7. Meeting space for in-state larger meetings. meetings per year for 3 years, statewide meetings years 2 and 3. \$200/average	24	\$200	\$4,800		\$4,800
Total Other			\$148,125	\$113,085	\$ 35,040.00
Total Direct Charges			\$1,547,631	\$1,238,103	\$309,528
i. Indirect Costs	Quantity	Unit Cost	Total Cost	Federal	Non-Federal
Indirect Costs					
31% of all direct costs	\$0	31%	\$0	\$0.00	\$0.00
Total Indirect			\$0	\$0	\$0
TOTALS			\$1,547,631	\$1,238,103	\$309,528

South Dakota State and Local Implementation Grant Program Budget Narrative

Preface:

The State of South Dakota has expended a considerable amount of time and resources developing details for the SLIGP process. We now enter Phase 2 of the grant with the following details:

Personnel

Federal:	\$336,787
State:	\$110,777
Total	\$447,565

State personnel involved and generally funded (annually)

The following personnel will be contributing to the SLIGP project::

BIT LMR State Radio Expertise: The BIT Chief Engineer for the state LMR system. This position is expected to be 5% of FTE time

Project Manager: The Project Manager will coordinate outreach, data collection, manage social media, and provide on-site support as needed. 100% of time for the next three years. Note we did not have a fulltime 100% project manager until Jan 2015. In 2014 10% of his time was budgeted for FirstNet.

SWIC/SPOC: The SWIC/SPOC will provide overall administration of the process, participate in outreach and data collection efforts, and provide interface within BIT and State Government. This position is expected to be 20% of FTE time

BIT Telecommunications Secretary: The BIT Telecommunications Secretary will provide administrative support for generation of mailing materials, meeting notes, website maintenance, travel, and other necessary support functions. This position is expected to be 10% of FTE time.

Fringe Benefits

Federal:	\$67,357
State:	\$22,155
Total:	\$89,513

The State of South Dakota calculates fringe benefits as 20% of an annual salary, thus, we used their same calculations. The fringe benefits are provided to all state employees with details found on the SD Bureau of Human Resources website: <http://bhr.sd.gov/>. The listed fringe benefits in the SLIGP application are calculated per the percentage of time allocated to the project.

Travel

Federal: \$21,000
State: \$144,209
Total: \$165,209

South Dakota is a state of 77,000+ square miles, so travel is a major consideration. Travel will be a very substantial portion of the project, as we continue to make contact with state, local, and tribal entities in the state. All travel will be to directly support the SLIGP process through direct meetings, regional meetings, governance meetings, SCIP workshops, scheduled FirstNet conferences, and out of state meetings. Committee/broadband subcommittee members of our governance will have costs reimbursed for travel relating to broadband planning, including in and out of state travel as required. All travel costs are based upon published state rates for mileage, per-diem, and lodging.

Expenses anticipated:

State Vehicle Travel (In-State):

Expected use by the SWIC/SPOC and Project Manager utilizing State vehicles. This travel will be utilized to provide outreach through regional meetings and direct contact with the stakeholders across the state, as well as activities related to data collection. This mileage estimation includes travel to nearby states via state vehicle- i.e. the Wyoming/Nebraska Consultation Meetings. Estimate *each* person will commute to an average of 40 meetings per year @ 300 miles with an additional 1,200 miles for travel to and from airports.

Calculate 300 miles x 80 meetings (40 each for SPOC/Project Manager) + an additional 2,400 miles (1,200 each for SPOC/Project Manager) traveling to and from airports = 26,400 miles x 4.5 years = 118,800 miles total. Using the State of South Dakota mileage allowance of \$.23 for sedan mileage the cost is \$27,324.

Lodging (In-State):

This lodging includes daily outreach efforts, regional and in-state meetings and conferences for state personnel and broadband subcommittee working group members, all working on NPSBN related activities. The estimated numbers of rooms do not match our number of meetings because we have various day trip travels to some of our meetings and not all require overnight lodging.

Broadband subcommittee members meeting 3 times a year for 3 years = 9 meetings total. Estimating that 50% (10 out of 20 members) requiring rooms for a total of 90 rooms.

Estimate 45 total rooms per year for project manager and SWIC/SPOC for regional, in-state meetings and other related meetings requiring overnight stay. 45 (Project Manager, SWIC/SPOC rooms) x 4.5 years = 202.5 – rounding to 203 rooms.

90 rooms (Subcommittee) + 203 rooms (PM/SWIC/SPOC) = 293 rooms total * the maximum state rate of \$70/night equals \$20,510.

Lodging (out of state):

Out of state lodging includes efforts to attend regional meetings, conferences, and related

workshops, for state personnel and broadband subcommittee working group members, all working on NPSBN related activities. We will expend these funds between Federal costs and State costs.

We anticipate having 2 broadband subcommittee members attending 2 meetings per year for the next 3 years. Estimate 3 nights lodging per meeting. Calculation: 2 (meetings) * 3 nights = 6 nights lodging per year * 2 (members) = 12 nights (for both members) per year * 3 years = 36 nights needed for lodging for our broadband subcommittee members.

Estimations for the project manager/SWIC/SPOC: Total of 7 conferences/meetings each over the 4.5 years, with 3 nights lodging per meeting. Calculation: 7 (meetings) * 3 nights = 21 nights lodging per year * 2 (members) = 42 nights (for both state personnel) per year * 4.5 years = 189 nights needed for lodging for our state personnel.

Cost calculations: 36 nights (subcommittee) + 189 nights (state personnel) = 225 nights * the maximum out-of-state lodging allowable state rate of \$175/night = \$39,375.

Air Travel:

South Dakota has limited air travel options when we travel to attend national meetings, conferences, and related workshops. This travel is for state personnel and broadband subcommittee working group members working on NPSBN related activities. These calculations correlate with the out of state lodging above.

We anticipate having 2 broadband subcommittee members will take 2 out of state trips (meetings) per year for the next 3 years. Calculation: 2 trips (per year) for 3 years = 6 trips X 2 (people) = 12 trips.

Project Manager and SWIC/SPOC will *each* have 7 trips per year over the 4.5 years. Calculation: 7 (trips) * 4.5 years = 31.5 rounding to 32 trips X 2 (members) = 64 trips (for both state personnel).

Cost calculations: 12 trips (subcommittee) + 64 trips (state personnel) = 76 trips * \$600 (based on past air travel costs) = \$ 45,600.

Per Diem (In State):

Per-diem will be for allowable meals while attending regional meetings, conferences, and related workshops, for state personnel and broadband subcommittee working group members, all working on NPSBN related activities.

Using the above categories we estimated the days needed for per diem expenses. Note that we took into consideration that not all meetings require per diem depending on time of day, travel distance, etc.

We considered the number of meetings and nights of lodging. From the previous travel categories:

80 meetings (40 each for SPOC/Project Manager) (*From the "State Vehicle Travel (In-*

State):” category listed above). The Broadband subcommittee will have a total of 9 meetings (3 meetings per year for 3 years) with 20 members. Typically 50% (10 of the 20) will need out of town per diem). We also estimated 293 nights of lodging for both state personnel and subcommittee members (*From the “Lodging (In-State)” category listed above*). Taking all of this into consideration, between state personnel and subcommittee members, possible per diem expenses for travel days for meetings, etc., we are anticipating 450 reimbursable per-diem charges at the allowable in-state rate of \$32.

Cost calculations: 450 per-diem charges x \$32 (in-state rate) = \$14,400.

Per Diem (Out of State):

Per-diem will be for allowable meals while attending direct meetings, regional meetings, SCIP workshops, scheduled FirstNet conferences, and out of state meetings for state personnel and broadband subcommittee working group members, all working on NPSBN related activities. Using the other out-of-state travel categories we estimated the days needed for per diem expenses.

We considered the number of meetings/trips and nights of lodging. From the travel category of “*Lodging (out of state)*” we estimated 225 nights of lodging for both state personnel and subcommittee members. In the travel category of “Air Travel” we estimated 76 trips and we know we typically have a day or two before and/or after the lodging (per trip) for travel days, and taking all of this into consideration, between state personnel and subcommittee members, possible per diem expenses for travel days for meetings, etc., we are anticipating 400 reimbursable per-diem charges at the allowable out-of-state rate of \$45.

Cost calculations: 400 per-diem charges x \$45 (out-of-state rate) = \$18,000.

Equipment

Federal:	\$0
State:	\$0
Total:	\$0

Supplies/Materials

Federal	\$30,040
State	\$356
Total	\$30,396

Supplies and materials will be the office supplies and other equipment needed to set up operations. It covers items such as computer equipment for the project, software for the outreach and data collection processes, telephones, office equipment, and equipment for data collection and documentation. It will also include educational and informational publishing costs, and software to assist in the daily operations. IT equipment pricing is from State of South Dakota contracts.

Office Materials:

Paper products, cd's flash drives and other office supplies for SLIGP-based activities. The supplies will be for the Project Manager and also the main BIT office for SLIGP-based activities. Outside of professional publications and mailers, we plan to do a lot of our own presentation materials. We would expect: paper/ink products -- \$500/year, cd's/DVD's/flash drives for duplication of presentations and resources-- \$500/year.

Calculate $500 \text{ (paper)} + \$500 \text{ (digital media)} = \$1,000 \text{ (per year)} \times 4.5 \text{ years} = \$4,500$.

Copy/Scan/Printer(s):

We plan to do a lot of our own presentation materials and will need good copy/scan/printer(s). Estimate \$717 splitting \$361 federal funds and \$356 state funds.

Operational expenses:

Various one-time business operational expenses. Items such as business card production, Employee ID cards, file cabinets, office desks, chairs, and etc. The supplies will be for the project manager and also the main BIT office for SLIGP-based activities. We estimate an expense of \$4,500.

Computer expenses:

Laptop/Notebook computer, tablet & accessories for project manager with docking station and external monitors for office use. We estimate an expense of \$4,000.

Mobile Connectivity:

Smart Phone & MiFi for project manager. Costs are \$100 per month x 12 months = \$1,200/year. The costs are from state AT&T contract) The project manager was working 10% for one year on the project and then 100% for the remaining 3.5 years. This is in accordance with the "*Personnel*" category.

Calculate: $\$1,200 \times 10\% \text{ (1}^{\text{st}} \text{ year)} = \$120 \text{ PLUS } \$1,200 \times 3.5 \text{ years} = \$4,200$ that gives us a total of \$4,320.

Mobile Connectivity for SPOC/SWIC:

Expenses for the mobile connectivity of the SPOC/SWIC which in accordance with the "*Personnel*" category will be expensed at 20%. Smart Phone (\$60), Computer network connection charges for tablet (\$119) and computer (\$119).

Calculate: $\$60 \text{ smartphone, } \$119 \text{ tablet, } \$119 \text{ computer} = \$298 \text{ per month} \times 12 \text{ mths} = \$3,576 \text{ per year. } \$3,576 \text{ per year for 4.5 years} = \$16,092 \times 20\% = \$3,218.4 \text{ (round off)}$

Computer Network Charges for PM:

BIT assesses a monthly charge for computers connected to the State of South Dakota network. This provides office computers internet/data services. The computer network connection charges for the program manager is \$119 per month or \$1,428 per year ($\$119 \times 12$). The project manager was working 10% for one year on the project and then 100% for the remaining 3.5 years. This is in accordance with the "*Personnel*" category.

Calculate: \$1,428 x 10% (1st year) = \$143(Rounded) *PLUS* \$1,428 x 3.5 years = \$4,998 that gives us a total of \$5,141.

IT Supplies

Laptop computers or tablets for SWIC/SPOC and Project Manager for presentation purposes, live data collection while on-site and meeting with stake holders etc. Other supplies such as a projection system, etc.

Contractual Services

Federal	\$611,000
State	\$25,440
Total	\$636,440

Web Development:

Web Development to add Broadband information and associated SLIGP-related information to governance website and the www.PSBN.sd.gov site. The \$300/hour rate is the contracted rate the State of South Dakota pays for outside website consultation. Tools such as survey, educational, and data collection ties into our current website solely for the purpose of the SLIGP process are anticipated.

Regional Consultant:

In the spirit of cooperation and partnership surrounding states have communicated that it would benefit our states and FirstNet if we could collaborate as the network is designed and ultimately implemented. From the discussions with other SPOC's with our regional states, the idea came to possibly share a consistent consultant to ensure compatibility across our borders on the FirstNet network. Each state would be expected to retain these services individually, ideally with the same contractor to provide the continuity. It is our intent to have the regional plan to include South Dakota and North Dakota at a minimum, with other adjoining states expressing interest as potential collaborators on a regional plan.

Having a common set of user needs and requirements would allow for a much more efficient interaction with FirstNet. We feel that this regional approach has value to the entire process.

We anticipate up to 600 hours total to coordinate with the state and develop a specific plan. Estimate based upon North Dakota cost for similar project, and our funding will be limited to the South Dakota portion of any work done.

BIT Development and/or Social Media/Information Officer:

We have discovered that it is important to have the correct resources and messaging out to our stakeholders. The generation of infographics, brochures, newsletters, press releases, etc. that reflect our mission and responsibility by our social media/PIO function is shown here. May also utilize some of their time to review printed articles (newsletters, press releases, etc.)

BIT GIS Expertise:

It is anticipated that the assistance of the BIT GIS staff will be needed to assist the collection and organization of Phase 2 data. Their expertise will be needed to sort through the data provided by FirstNet for coverage baseline information to help determine phase plans for the state plan. Note: The BIT GIS staff is funded through users fees and therefore cannot be used for match purposes.

State Plan Contractor:

We are anticipating the need for outside assistance to help review and analyze the draft state plan for South Dakota once received from FirstNet. Assistance in the analysis and formal response to FirstNet once the state plan is presented to South Dakota. We anticipate that this will be a lengthy, highly technical document that will need professional review. Help determine recommendations for opt-in/opt-out for Governor's office based on the final State plan from FirstNet.

Typically this is an activity that would be completed by the SWIC and governance council for statewide interoperability, but expect the activities surrounding the SLIGP process will pretty much dominate our time over the remainder of this process. The cost is based upon what we have experienced for Emergency Management consultants helping us develop manuals and informational materials in the past.

Data Collection Contractor:

We are anticipating the need for outside assistance to help coordinate Phase 2 data and assist us in coordinating a product to return to FirstNet. Assistance in the gathering and coordination of the South Dakota response to FirstNet for Phase 2 data collection.

Cost estimate based on "Statements of Work" proposals from contractors. The cost is also based upon what we have experienced for Emergency Management consultants helping us develop manuals and informational materials in the past.

Phase 2 Tools:

The State of South Dakota recognizes that certain expertise may be needed for Phase 2. Specifically data collection may require special tools as those requirements are developed and changed to meet the needs of FirstNet.

For example we know we can obtain some real world current mobile performance and coverage data which can then be put in our GIS system and analyzed. This data could be one of the GIS layers used to help us and FirstNet determine the best phased approach for our state. This is a good data set of real world information that can demonstrate not only coverage but capacity as well. It shows the data of our existing commercial networks, and where people are utilizing their mobile devices. It will help us provide up-to-date information to FirstNet as they produce the state plan for the State of South Dakota.

Cost is based upon South Dakota Broadband Initiative program expenses.

Other

Federal	\$171,918
State	\$6,591
Total	\$178,509

Printing, Publishing, Mailing:

Printing and publishing costs associated with outreach daily operations of the SLIGP process. We plan to leverage FirstNet generated materials, but will need state specific materials such as flyers, brochures, newsletters, letters, informational letters, etc. A monthly newsletter (500) will be generated. Additional monthly printing, publishing, and mailing could be sent to the 900 identified first responder agencies in our state. We estimate total cost per month for printing/publishing: \$2,000/month for professional printing.

Calculate: $\$2,000 \times 12 = \$24,000$ per year *TIMES* 4.5 years = \$108,000

Mailing costs:

As part of the daily outreach operations and in order to keep all of the user community and decision makers informed, we know that regular correspondence is important. Such correspondence such as newsletters, how-to guides, what's new, etc. will be mailed to agencies and individuals. Many of our first responders are volunteers, and or part time employees thus we feel this is an important method of communications. Estimate \$700/month for postage.

Calculate: $\$700 \times 12 = \$8,400$ per year *TIMES* 4.5 years = \$37,800

IT Products:

Anticipating (based upon the state SBI/BTOP process) that server and SAN equipment may be needed for this phase. With the amount of data from FirstNet and from our first responders we may need to place some of this in our State of South Dakota data center and on our GIS systems to further analyze the data. The GIS Layers will be many and will need to be stored properly. The exact needs will be determined through our BIT GIS expertise, and need from what data formats we receive. Cost estimate based upon state process for SBI and BTOP programs.

We do not anticipate the costs going above \$24,318.

Space billing (Full time project manager):

Current space-billing from the Bureau of Administration is \$12.73/square foot annually. A 10' x 10' (100 square feet) office would provide adequate space (typical office setup) for the project Manager to perform current duties. The project manager was working 10% for one year on the project and then 100% for the remaining 3.5 years. This is in accordance with the "*Personnel*" category.

Calculate: 100 sq feet x \$12.73 is \$1,273 per year;
 $\$1,273 \times 10\%$ (1st year) = \$127(Rounded) *PLUS* $\$1,273 \times 3.5$ years = \$4,456 (Rounded)

that gives us a total of \$4,583

Space billing (BIT Personnel percentage of FirstNet):

Current space-billing from the Bureau of Administration is \$12.73/square foot annually. A 10' x 10' (100 square feet) office is a typical office setup, and will be used in this calculation. Aside from the full time project manager we will calculate the three other BIT employees helping with the FirstNet project based on the BOA space-billing costs.

Calculate: 100 sq feet x \$12.73 is \$1,273 per year;

SPOC 20%: $\$1,273 \times 20\% = \255 (Rounded) per year *TIMES* 4.5 years = \$1,148(Rounded)

Secretary 10%: $\$1,273 \times 10\% = \127 (Rounded) per year *TIMES* 4.5 years = \$572 (Rounded)

LMR Engineer 5%: $\$1,273 \times 5\% = \64 (Rounded) per year *TIMES* 4.5 years = \$288

TOTAL: \$1,148 (SPOC) + \$572 (Secretary) + \$288 (LMR Engineer) = \$2,008

Meeting Space:

We will at times need to organize meetings within the state on regional levels, requiring larger meeting areas than is typically available in government facilities. It has been our experience that we can get a decent sized meeting room for around \$200. We are estimating 2 meetings per year for 4.5years, so estimating 9 statewide meetings.

Calculate: 2 (meetings) * 4.5 years = 9 total meetings *TIMES* \$200/per meeting = \$1,800

Indirect Costs:

We will not be charging any indirect costs to this project.

Match Sources

The South Dakota total minimum match will be worked into the operating budget of State Radio Communications division of the Bureau of Information and Telecommunications.

The match will be for the personnel services dedicated to this project, and cash for the travel, supplies/materials, contractual services, and other expenses as outlined.

Personnel

Time for the personnel involved in this process are tracked through our payroll and time-keeping system (TKS) that the state uses. This system allows for a time study, enabling personnel to break out hours by project or discipline. A line for FirstNet will be added to the TKS profile of those personnel listed.

Travel

Travel for state personnel is a chargeable expense paid to the Bureau of Administration (BOA) who maintains the state vehicle fleet. Mileage logs will confirm trips for the purpose of the SLIGP.

Supplies

1. The State Radio budget is generally funded, and will contribute towards this end. All costs for these items are directly from either state contract, or experience from the

BTOP project.

Other

1. South Dakota has calculated a contribution from the contractual services budget (general funds) for the purpose of space billing.

Final Match

The State Radio general funds have funds earmarked for the purposes of FirstNet match, so we do not anticipate difficulty in meeting the 20%.

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	\$ 1,170,955.00	\$ 287,480.00	\$ 1,238,103.00	\$ 309,529.00	\$ 1,547,631.00
2.						
3.						
4.						
5. Totals		\$ 1,170,955.00	\$ 287,480.00	\$ 1,238,103.00	\$ 309,529.00	\$ 1,547,631.00

SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1) <div style="border: 1px solid black; padding: 2px; font-size: 0.8em;">State and Local Implementation Grant Program</div>	(2)	(3)	(4)	
a. Personnel	\$ <div style="border: 1px solid black; text-align: right;">223,782.00</div>	\$ <div style="border: 1px solid black; text-align: right;">223,782.00</div>	\$ <div style="border: 1px solid black;"></div>	\$ <div style="border: 1px solid black;"></div>	\$ <div style="border: 1px solid black; text-align: right;">447,564.00</div>
b. Fringe Benefits	<div style="border: 1px solid black; text-align: right;">44,756.00</div>	<div style="border: 1px solid black; text-align: right;">44,756.00</div>	<div style="border: 1px solid black;"></div>	<div style="border: 1px solid black;"></div>	<div style="border: 1px solid black; text-align: right;">89,512.00</div>
c. Travel	<div style="border: 1px solid black; text-align: right;">82,604.00</div>	<div style="border: 1px solid black; text-align: right;">82,604.00</div>	<div style="border: 1px solid black;"></div>	<div style="border: 1px solid black;"></div>	<div style="border: 1px solid black; text-align: right;">165,208.00</div>
d. Equipment	<div style="border: 1px solid black; text-align: right;">0.00</div>	<div style="border: 1px solid black; text-align: right;">0.00</div>	<div style="border: 1px solid black;"></div>	<div style="border: 1px solid black;"></div>	<div style="border: 1px solid black;"></div>
e. Supplies	<div style="border: 1px solid black; text-align: right;">15,198.00</div>	<div style="border: 1px solid black; text-align: right;">15,198.00</div>	<div style="border: 1px solid black;"></div>	<div style="border: 1px solid black;"></div>	<div style="border: 1px solid black; text-align: right;">30,396.00</div>
f. Contractual	<div style="border: 1px solid black; text-align: right;">318,220.00</div>	<div style="border: 1px solid black; text-align: right;">318,220.00</div>	<div style="border: 1px solid black;"></div>	<div style="border: 1px solid black;"></div>	<div style="border: 1px solid black; text-align: right;">636,440.00</div>
g. Construction	<div style="border: 1px solid black;"></div>	<div style="border: 1px solid black;"></div>	<div style="border: 1px solid black;"></div>	<div style="border: 1px solid black;"></div>	<div style="border: 1px solid black;"></div>
h. Other	<div style="border: 1px solid black; text-align: right;">89,254.00</div>	<div style="border: 1px solid black; text-align: right;">89,254.00</div>	<div style="border: 1px solid black;"></div>	<div style="border: 1px solid black;"></div>	<div style="border: 1px solid black; text-align: right;">178,508.00</div>
i. Total Direct Charges (sum of 6a-6h)	<div style="border: 1px solid black; text-align: right;">773,814.00</div>	<div style="border: 1px solid black; text-align: right;">773,814.00</div>	<div style="border: 1px solid black;"></div>	<div style="border: 1px solid black;"></div>	\$ <div style="border: 1px solid black; text-align: right;">1,547,628.00</div>
j. Indirect Charges	<div style="border: 1px solid black;"></div>	<div style="border: 1px solid black;"></div>	<div style="border: 1px solid black;"></div>	<div style="border: 1px solid black;"></div>	\$ <div style="border: 1px solid black;"></div>
k. TOTALS (sum of 6i and 6j)	\$ <div style="border: 1px solid black; text-align: right;">773,814.00</div>	\$ <div style="border: 1px solid black; text-align: right;">773,814.00</div>	\$ <div style="border: 1px solid black;"></div>	\$ <div style="border: 1px solid black;"></div>	\$ <div style="border: 1px solid black; text-align: right;">1,547,628.00</div>
7. Program Income	\$ <div style="border: 1px solid black;"></div>	\$ <div style="border: 1px solid black;"></div>	\$ <div style="border: 1px solid black;"></div>	\$ <div style="border: 1px solid black;"></div>	\$ <div style="border: 1px solid black;"></div>

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SECTION C - NON-FEDERAL RESOURCES

	(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS
8.	South Dakota Public Safety Broadband Network, Phase One, Education and Outreach	\$ <input style="width: 100px;" type="text"/>	\$ <input style="width: 100px; text-align: right;" type="text" value="154,764.00"/>	\$ <input style="width: 100px;" type="text"/>	\$ <input style="width: 100px; text-align: right;" type="text" value="154,764.00"/>
9.	South Dakota Public Safety Broadband Network, Phase Two, Data Collection	<input style="width: 100px;" type="text"/>	<input style="width: 100px; text-align: right;" type="text" value="154,764.00"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px; text-align: right;" type="text" value="154,764.00"/>
10.	<input style="width: 350px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>
11.	<input style="width: 350px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>
12. TOTAL (sum of lines 8-11)		\$ <input style="width: 100px;" type="text"/>	\$ <input style="width: 100px; text-align: right;" type="text" value="309,528.00"/>	\$ <input style="width: 100px;" type="text"/>	\$ <input style="width: 100px; text-align: right;" type="text" value="309,528.00"/>

SECTION D - FORECASTED CASH NEEDS

	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$ <input style="width: 100px;" type="text"/>	\$ <input style="width: 100px;" type="text"/>	\$ <input style="width: 100px;" type="text"/>	\$ <input style="width: 100px;" type="text"/>	\$ <input style="width: 100px;" type="text"/>
14. Non-Federal	\$ <input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>
15. TOTAL (sum of lines 13 and 14)	\$ <input style="width: 100px;" type="text"/>	\$ <input style="width: 100px;" type="text"/>	\$ <input style="width: 100px;" type="text"/>	\$ <input style="width: 100px;" type="text"/>	\$ <input style="width: 100px;" type="text"/>

SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT

	(a) Grant Program	FUTURE FUNDING PERIODS (YEARS)			
		(b) First	(c) Second	(d) Third	(e) Fourth
16.	State and Local Implementation Grant Program	\$ <input style="width: 100px;" type="text"/>	\$ <input style="width: 100px;" type="text"/>	\$ <input style="width: 100px;" type="text"/>	\$ <input style="width: 100px;" type="text"/>
17.	<input style="width: 350px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>
18.	<input style="width: 350px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>
19.	<input style="width: 350px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>
20. TOTAL (sum of lines 16 - 19)		\$ <input style="width: 100px;" type="text"/>	\$ <input style="width: 100px;" type="text"/>	\$ <input style="width: 100px;" type="text"/>	\$ <input style="width: 100px;" type="text"/>

SECTION F - OTHER BUDGET INFORMATION

21. Direct Charges: <input style="width: 300px;" type="text"/>	22. Indirect Charges: <input style="width: 300px;" type="text"/>
23. Remarks: <input style="width: 900px;" type="text"/>	



State Of South Dakota



State and Local Implementation Grant Program Application Supplemental Application Narrative

6-22-2015

Executive Overview

This application is in response to the Federal Funding Opportunity (FFO) related to the initial steps of bringing the proposed National Public Safety Broadband Network (NPSBN) to fruition. The scope, proposed funding mechanism, and technical/spectrum overview was outlined in the Middle Class Jobs Creation Act of 2012.

In the three years following the passage of the above legislation, FirstNet has established a Board of Directors, hired core and outreach staff, released three public notices and a draft RFP for the system procurement. We now enter the second phase of the State and Local Implementation Grant Program (SLIGP) whereby FirstNet is seeking information from the states for the procurement process.

South Dakota has kept abreast of the activities surrounding FirstNet and the NPSBN, and has tried to be as proactive as possible in the areas where requirements have been identified. We have established a responsible governance group, a single point of contact and backup, and have developed education and outreach information to deal with early questions.

We will now turn our efforts to the data collection process and those activities specified for SLIGP Phase 2.

The following revised document outlines the South Dakota strategy for moving ahead with the balance of our SLIGP process.

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1. Existing Governance Body

a. Description.

The South Dakota Public Safety Communications Council (SDPSCC) was created by Executive Order 2007-05 signed by Governor Rounds March 14, 2007. The following excerpt from the South Dakota Legislative Research Council Register posted March 19, 2007 outlines the Executive Order:

*The Governor has signed **Executive Order 2007-05** dated March 14, 2007, which creates the South Dakota Public Safety Communication Council (SDPSCC) consisting of various state and local law enforcement agencies, associations, departments, and other emergency first responders. The purpose of the SDPSCC is to help determine policy and standard practice for a comprehensive and coordinated statewide emergency communications network. The SDPSCC will be administered through the South Dakota Bureau of Information and Telecommunications.*

The above excerpt outlines the *intent* of the council; the organization of the council is as follows:

Sponsor Agency – South Dakota Bureau of Information and Telecommunications (BIT), provides funding, administrative and clerical support.

Council Structure – Chairman, Vice-Chairman, Member at Large, are elected posts and serve as the Executive group with the BIT representative.

Membership – The following groups, agencies, or associations are all nominated by their respective groups and appointed by the Governor and provide a great cross-section of the users involved with public safety communications:

- South Dakota Police Chief's Association
- South Dakota Sheriff's Association
- Division of Criminal Investigation, Office of Attorney General
- South Dakota Game, Fish, and Parks
- South Dakota Department of Transportation

- South Dakota National Guard
- South Dakota Emergency Managers Association
- South Dakota Fire Fighters Association
- South Dakota Association of Healthcare Organizations
- South Dakota Department of Public Safety/Highway Patrol
- South Dakota APCO/NENA Association Chapter
- South Dakota Emergency Medical Technicians Association
- South Dakota Department of Agriculture/Wildland Fire
- South Dakota Association of County Commissioners
- South Dakota Department of Health
- Tribal Government (Current Lower Brule Sioux Tribe)
- Federal Government (Currently USDA)
- South Dakota Bureau of Information and Telecommunications

Meetings – Per adopted bylaws the council will meet on a quarterly basis. Voting rights are limited to the Governor-appointed members, and proxy representation can participate in all actions except voting. Members serve for three years per appointment, and can be reappointed as necessary. Annual member elections select the council Chairman, Vice-Chairman, and Member-At-Large. This council has now been in existence for six years and has settled in to a very efficient and effective group of advocates for their representative groups. BIT is the lead agency, but takes direction from and abides by the consensus of the group, which is now empowered to shape communications within the state.

The ability to establish a sub-committee of the council is outlined in the by-laws of the council, and has been exercised once in the past to deal with the narrowbanding issue. The subcommittee established state timelines, grant funds direction, and a clearinghouse of narrowband equipment and licensing information.

Each representative agency or organization has a rural and tribal component within its representative groups. Law enforcement, EMS, hospitals, county governments, fire services, roads, each has voting representation on the council and are expected to provide two-way communications to and from these groups through their newsletters, regional and statewide meetings, and by being an available advocate of the groups they represent. It is the intent of the council to continue to utilize the council website sdpscc.sd.gov to provide public access to the process and for reference materials.

b. Authority

Executive Order 2007-05 defines the following responsibilities:

- Update protocols and standards for the operation and use of the South Dakota Interoperable Communications System.
- Develop strategies and recommendations to improve current and future operations of the radio network.
- Develop recommendations for legislation or other state action that may be required to further promote public safety communications in South Dakota.
- Develop recommendations and strategies for best utilization of grant funding to improve communications in South Dakota.

The SDPSCC had a legal review of the Executive Order completed in 2012 which indicated that no additional modification would be required to include the activities surrounding the NPSBN project.

Policy decisions by the PSCC have been adopted by local, state, tribal, and federal agencies utilizing the statewide radio system, and by BIT as the responsible agency for budgeting and support for the system. Policy changes are outlined in the council charter, but are proposed with prior notice to council members, discussed and accepted or rejected on a majority vote of the appointed members. Meeting notes outlining the proceedings of each meeting are posted on the website sdpscc.sd.gov. SDPSCC meetings are subject to open meetings laws, and as such all of our proceedings, notes, and presentations are all public information. Council members provide feedback to their groups.

c. Leveraging the Governance

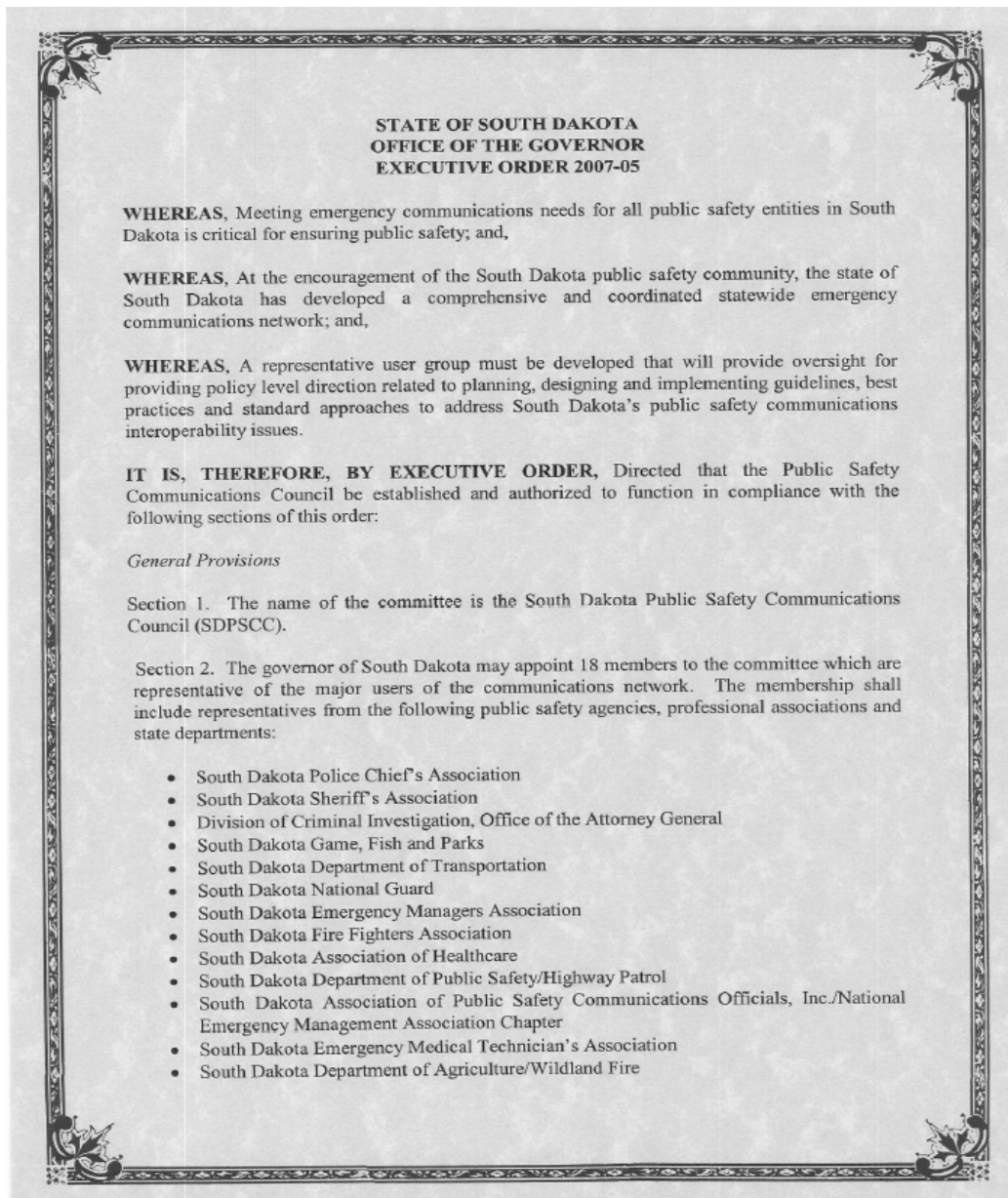
The SDPSCC voted to accept the nomination as the NPSBN governance if so nominated by the Governor at the 6-26-2012 meeting. A correspondence was sent to the Governor's office outlining the requirements and how the SDPSCC could fill this role. Also for NGA purposes the Governor's Office has designated Jeff Pierce of the Bureau of Information and Telecommunications (BIT), and Matt Tooley of Sioux Falls Metro Communications as Point of Contact (POC) and alternate for purposes of FirstNet. Both Jeff and Matt are SDPSCC council members. The SDPSCC was the obvious choice per their current membership.

d. Expanding Scope of the Governance

The SDPSCC was created by the Executive Order on the following pages, and as such outlined the membership of the governance group. In our June 2012 meeting, the council made a decision to not alter the official membership, but to expand our scope through a created broadband subcommittee. It is planned to include within this subcommittee current representation plus expertise in networking, telecommunications (wired and wireless), and current broadband activities.

It is our plan to include within the subcommittee additional resources such as:

- 911 board representation
- Wireless companies in South Dakota
- Wireline companies in South Dakota
- BIT Network engineers
- BIT Integration/Server engineers
- Rural electric utilities
- Rural water systems
- State Chief Terminal Officer (NCIC, NLETS, etc.)



- South Dakota Association of County Commissioners
- South Dakota Department of Health
- Tribal government or tribal government association
- Federal government or federal government association
- South Dakota Bureau of Information and Telecommunications Engineering Manager

Section 3. The South Dakota Public Safety Communications Council shall foster collaboration among stakeholders at the local, federal and state level. The South Dakota Public Safety Communications Council shall focus on the following priorities:

- Update protocols and standards for the operation and use of the South Dakota Interoperable Communications System.
- Develop strategies and recommendations to improve current and future operations of the radio network.
- Develop recommendations for legislation or other state action that may be required to further promote public safety communications in South Dakota.
- Develop recommendations and strategies for best utilization of grant funding to improve communications in South Dakota.

Section 4. The South Dakota Public Safety Communications Council shall be administered by the South Dakota Bureau of Information and Telecommunications.

Section 5. Members shall be appointed for 1-year terms which end on June 30. Members may be reappointed for no more than three consecutive terms. Representatives of state agencies shall serve as long as their agency directs.

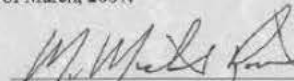
Section 6. The South Dakota Public Safety Communications Council shall elect a chairperson.

Section 7. The council shall prepare an annual report for the governor.

Section 8. All expenses and costs of administration for the council shall be paid from funds available to the Bureau of Information and Telecommunications.

Dated in Pierre, South Dakota, this 14th day of March, 2007.




M. Michael Rounds, Governor of South Dakota

ATTEST:

Chris Nelson, Secretary of State

e. Financial support of the Governance Group

The SDPSCC is currently under the umbrella of the BIT general fund budget for State Radio Communications (SRC). At this point, SRC funds member travel, secretarial support, and administrative support. There are no staff dedicated to the SDPSCC, but share resources include the BIT Telecommunications Secretary, BIT Finance Staff (grants) and the BIT Telecommunications Engineering Manager.

It is the intent to utilize SLIGP funds to facilitate the operations of the Broadband Subcommittee for the SDPSCC. BIT has hired a Project Manager, who will oversee the following responsibilities for SLIGP Phase 2:

- Analyzing information from stakeholders to determine state response.
- Developing coverage, hardening, and resiliency standards for the state.
- Developing capacity standards for the state.
- Determine state definition of first responders.
- Confirm procurement process and state plan approval process.

It is the intent of the SDPSCC for the Broadband subcommittee to operate under the auspices of the appointed council, but with the ability to meet, organize, and develop those deliverables defined. The scope and deliverables can be modified by the council during regular meetings or by e-mail consensus. Membership to the subcommittee will be solicited from the existing council membership, from the public service sector (utilities, telecommunications providers, private industry), from all tribal governments within the state, the Municipal League (cities), Association for County Governments, interested legislators, BIT Network and Development personnel, and the Governor's Staff member assigned to this process.

An initial look at the budget for this process includes: \$89,550 for support to broadband subcommittee of the SDPSCC (estimated 20 members).

- Per diem: in state, 270 x \$32/day = \$8,640
- Per Diem: out of state, 288 x \$45 = \$12,960
- Lodging: in state, 810 rooms @ \$70 = \$56,700
- Lodging: in state, 54 rooms @ \$175 = \$9,450
- Meeting space: 9 @ \$200 = \$1800

2. Statewide Communications Interoperability Plan (SCIP)

a. Existing Strategies and Goals

The current South Dakota SCIP includes the following direct excerpt:

Goal 4: To provide a common data network through:

- Improvements in the statewide data network.
- Developing standards for all mobile data users in first responder community.
- Messaging capabilities between different networks.
- Adding AVL capabilities to vehicles/dispatch.
- Participation in the National Public Safety Broadband Network (NPSBN) project.

Identified Gap:

It has become increasingly important to provide data services to the field. The State of South Dakota (BIT) maintains the message switch with access to NCIC, NLETS, EPIC, and the local criminal records, driver's license, and motor vehicle databases. The lack of a single means of delivering the required information directly to the users has long been a problem, and the local system developed to serve city and county-wide areas have added to the problem by not having a single standard.

Initiative 4: Provide a common data network.

The following steps have been completed and/or are ongoing:

- A contract with Datamaxx was approved in March of 2007. Datamaxx has made arrangements with both cellular carriers in the state to utilize their data overlay for public safety use. Completed. BIT was lead.
- The offering of data rates up to and including EVDO service will vastly improve the capabilities of units operating in the field. Alltel and Verizon both plan to have systems fully upgraded by December 31, 2008. Vendor. Completed.
- It is the intent to allow messaging capabilities between users through the state message switch via the cellular data overlay. Ongoing. BIT is lead.
- AVL capabilities are being discussed to allow CAD users access to real-time mapping and officer monitoring. Ongoing. PSCC will set standard, BIT will implement.
- Assign the PSCC as point of contact agency for the NPSBN.

b. Local Involvement in Planning Activities

The primary means of interface to local and tribal governments has been through the activities of the SDPSCC. Our membership includes specific local and tribal representation, and has been an effective vehicle for establishing two-way communications to and from our user base. Our outreach to any

group to this point has been limited because of a considerable gap in specific information that can be shared. Hopefully that information will become available sooner than later for this phase of the SLIGP.

c. SLIGP Funding to Support SCIP

Typically the South Dakota SCIP updates have been through a collaborative process between the council members and the BIT Technical Administrator, who provides organizational and administrative services for the group. We do have a SCIP workshop organized with OEC, and will utilize funding from this source to authorize travel for council members to attend the workshop with the idea of providing a more defined path to public safety broadband services.

Our SCIP has not had a significant change since the passage of the legislation creating FirstNet and the NPSBN. It is our intent during the calendar year 2013 to update our SCIP to include the specific information related to FirstNet, LTE, and our strategy to keep our state aligned with current technology. We have requested a broadband workshop from OEC Technical Assistance to help us correctly align our state with current technology and requirements. We have included within our SLIGP budget \$25,000 for consulting fees to have a professional overview of our SCIP and any suggested changes specific to public safety broadband. Any scope outside of public safety broadband will be excluded from the purposes of the SLIGP and will be paid for with state general funds.

3. State-Level Involvement

a. SWIC/SPOC Status

The South Dakota SWIC is a part-time position, and that individual (Jeff Pierce) also serves as the Manager for the Engineering group of BIT Telecommunications. As the assigned SPOC, Mr. Pierce will coordinate the SLIGP process, and compile the input provided by council members and our user base. South Dakota has also retained the services of Mike Waldner, a former member of the State Broadband Initiative in state as our Project Manager. Mike brings a strong background in public relations, IT, and social media. Mike will be our sole full time employee on this project.

b. CIO/CTO Involvement

The South Dakota Chief Information Officer (CIO) is head of BIT. As the SWIC works within BIT, there is direct and daily interaction with the CIO. The CIO (David Zolnowsky) will provide access to the Governor's Office for administrative and fiscal needs related to the NPSBN. Engagement between

the CIO and the Governor's Office has been ongoing concerning the scope and financial aspects of the NPSBN.

c. Other State Level Involvement with SLIGP

It is anticipated that all state agencies with public safety ties will have an opportunity to provide input to the SLIGP. State agencies with direct ties to the SDPSCC include:

- Division of Criminal Investigation, Office of Attorney General
- South Dakota Game, Fish, and Parks
- South Dakota Department of Transportation
- South Dakota National Guard
- South Dakota Department of Public Safety/Highway Patrol
- South Dakota Department of Agriculture/Wildland Fire
- South Dakota Department of Health
- South Dakota Bureau of Information and Telecommunications

Statewide organizations that are involved with the SDPSCC and will have direct involvement include:

- South Dakota Police Chief's Association
- South Dakota Sheriff's Association
- South Dakota Emergency Managers Association
- South Dakota Fire Fighters Association
- South Dakota Association of Healthcare Organizations
- South Dakota APCO/NENA Association Chapter
- South Dakota Emergency Medical Technicians Association
- South Dakota Association of County Commissioners

Tribal/Federal organizations that are involved with the SDPSCC and will have direct involvement include

- Tribal Government (Current Lower Brule Sioux Tribe)
- Federal Government (Currently USDA)

d. State Staffing for the SLIGP

Staffing requirements anticipated for the SLIGP project:

It is anticipated that staffing needed to fulfill the requirements of the SLIGP process will consist of the following:

- BIT Telecommunications Engineering Manager (20% of FTE time)
The BIT Engineering Manager will be the SPOC, plus the regular coordination of the SDPSCC. Duties will involve grant preparation, hiring of contracted services, status reports, status meetings, coordination of contracted services, and inter-governmental communication.
- Project Manager (100%)

The Project Manager will be primary contact for stakeholders, develop program materials, directly participate in outreach and grant efforts, and manage the social media for the project.

- BIT Finance Director (5% of time)
The BIT Finance Director will provide administrative support, ACH drawdown, reporting information, A87 compliance.
- BIT Telecommunications Secretary (5% of FTE time)
The BIT Telecommunications Secretary is anticipated to spend 5% of her time on travel, mailings, meeting notes, and other related tasks.

e. Engagement of Private Industry and 2nd Responders

BIT has already engaged the South Dakota Rural Electric Association (SDREA), the South Dakota Independent Telephone Companies (SDITC) with an overview of the project and an offer to supply any additional information. It is our intent to open the broadband subcommittee to any and all interested parties with encouragement for the utilities and services to participate. We expect to engage directly with wired and wireless telecommunications providers, other electric and water utility entities, and NGO's such as Red Cross, Salvation Army, and others operating within the state.

4. Coordination with Local Government Jurisdictions

a. Jurisdictional Structure

Within the 77,116 square miles of territory in South Dakota lie 390 recognized incorporated or unincorporated named towns or cities. Those cities lie within 66 recognized counties broken down into 915 townships. Emergency services are typically associated with towns and counties, but within some counties are organized fire districts that have taxing authority to support their operations. Following find the list of communities throughout South Dakota sorted by county, with county seat noted:

<u>Plankinton †</u>	<u>Aurora</u>
<u>White Lake</u>	<u>Aurora</u>
<u>Stickney</u>	<u>Aurora</u>
<u>Aurora Center</u>	<u>Aurora</u>
<u>Storla</u>	<u>Aurora</u>
<u>Huron †</u>	<u>Beadle</u>
<u>Wolsey</u>	<u>Beadle</u>
<u>Wessington</u>	<u>Beadle</u>
<u>Cavour</u>	<u>Beadle</u>
<u>Yale</u>	<u>Beadle</u>
<u>Hitchcock</u>	<u>Beadle</u>

<u>Broadland</u>	<u>Beadle</u>
<u>Virgil</u>	<u>Beadle</u>
<u>Morningside</u>	<u>Beadle</u>
<u>Martin †</u>	<u>Bennett</u>
<u>Allen</u>	<u>Bennett</u>
<u>Springfield</u>	<u>Bon Homme</u>
<u>Tyndall †</u>	<u>Bon Homme</u>
<u>Scotland</u>	<u>Bon Homme</u>
<u>Avon</u>	<u>Bon Homme</u>
<u>Tabor</u>	<u>Bon Homme</u>
<u>Running Water</u>	<u>Bon Homme</u>
<u>Brookings †</u>	<u>Brookings</u>
<u>Volga</u>	<u>Brookings</u>
<u>Elkton</u>	<u>Brookings</u>
<u>Aurora</u>	<u>Brookings</u>
<u>White</u>	<u>Brookings</u>
<u>Bruce</u>	<u>Brookings</u>
<u>Sinai</u>	<u>Brookings</u>
<u>Bushnell</u>	<u>Brookings</u>
<u>Aberdeen †</u>	<u>Brown</u>
<u>Groton</u>	<u>Brown</u>
<u>Warner</u>	<u>Brown</u>
<u>Hecla</u>	<u>Brown</u>
<u>Frederick</u>	<u>Brown</u>
<u>Columbia</u>	<u>Brown</u>
<u>Westport</u>	<u>Brown</u>
<u>Claremont</u>	<u>Brown</u>
<u>Stratford</u>	<u>Brown</u>
<u>Verdon</u>	<u>Brown</u>
<u>Bath</u>	<u>Brown</u>
<u>Bath Corner</u>	<u>Brown</u>
<u>Ferney</u>	<u>Brown</u>
<u>Mansfield</u>	<u>Brown</u>
<u>Chamberlain †</u>	<u>Brule</u>
<u>Kimball</u>	<u>Brule</u>
<u>Pukwana</u>	<u>Brule</u>
<u>Bijou Hills</u>	<u>Brule</u>
<u>Ola</u>	<u>Brule</u>
<u>Fort Thompson</u>	<u>Buffalo</u>
<u>Gann Valley</u>	<u>Buffalo</u>
<u>Belle Fourche †</u>	<u>Butte</u>
<u>Newell</u>	<u>Butte</u>
<u>Nisland</u>	<u>Butte</u>

<u>Fruitdale</u>	<u>Butte</u>
<u>Vale</u>	<u>Butte</u>
<u>Herreid</u>	<u>Campbell</u>
<u>Pollock</u>	<u>Campbell</u>
<u>Mound City †</u>	<u>Campbell</u>
<u>Artas</u>	<u>Campbell</u>
<u>Wagner</u>	<u>Charles Mix</u>
<u>Platte</u>	<u>Charles Mix</u>
<u>Lake Andes †</u>	<u>Charles Mix</u>
<u>Geddes</u>	<u>Charles Mix</u>
<u>Pickstown</u>	<u>Charles Mix</u>
<u>Dante</u>	<u>Charles Mix</u>
<u>Ravinia</u>	<u>Charles Mix</u>
<u>Marty</u>	<u>Charles Mix</u>
<u>Clark †</u>	<u>Clark</u>
<u>Willow Lake</u>	<u>Clark</u>
<u>Bradley</u>	<u>Clark</u>
<u>Garden City</u>	<u>Clark</u>
<u>Raymond</u>	<u>Clark</u>
<u>Vienna</u>	<u>Clark</u>
<u>Naples</u>	<u>Clark</u>
<u>Crocker</u>	<u>Clark</u>
<u>Vermillion †</u>	<u>Clay</u>
<u>Irene</u>	<u>Clay</u>
<u>Wakonda</u>	<u>Clay</u>
<u>Watertown †</u>	<u>Codington</u>
<u>Florence</u>	<u>Codington</u>
<u>Henry</u>	<u>Codington</u>
<u>South Shore</u>	<u>Codington</u>
<u>Kranzburg</u>	<u>Codington</u>
<u>Wallace</u>	<u>Codington</u>
<u>Waverly</u>	<u>Codington</u>
<u>McLaughlin</u>	<u>Corson</u>
<u>McIntosh †</u>	<u>Corson</u>
<u>Morristown</u>	<u>Corson</u>
<u>Bullhead</u>	<u>Corson</u>
<u>Little Eagle</u>	<u>Corson</u>
<u>Custer †</u>	<u>Custer</u>
<u>Hermosa</u>	<u>Custer</u>
<u>Buffalo Gap</u>	<u>Custer</u>
<u>Pringle</u>	<u>Custer</u>
<u>Fairburn</u>	<u>Custer</u>
<u>Mitchell †</u>	<u>Davison</u>

<u>Mount Vernon</u>	<u>Davison</u>
<u>Ethan</u>	<u>Davison</u>
<u>Loomis</u>	<u>Davison</u>
<u>Webster †</u>	<u>Day</u>
<u>Waubay</u>	<u>Day</u>
<u>Bristol</u>	<u>Day</u>
<u>Roslyn</u>	<u>Day</u>
<u>Pierpont</u>	<u>Day</u>
<u>Andover</u>	<u>Day</u>
<u>Grenville</u>	<u>Day</u>
<u>Butler</u>	<u>Day</u>
<u>Lily</u>	<u>Day</u>
<u>Clear Lake †</u>	<u>Deuel</u>
<u>Gary</u>	<u>Deuel</u>
<u>Toronto</u>	<u>Deuel</u>
<u>Goodwin</u>	<u>Deuel</u>
<u>Astoria</u>	<u>Deuel</u>
<u>Brandt</u>	<u>Deuel</u>
<u>Altamont</u>	<u>Deuel</u>
<u>Eagle Butte</u>	<u>Dewey</u>
<u>Timber Lake †</u>	<u>Dewey</u>
<u>Isabel</u>	<u>Dewey</u>
<u>Green Grass</u>	<u>Dewey</u>
<u>La Plant</u>	<u>Dewey</u>
<u>North Eagle Butte</u>	<u>Dewey</u>
<u>Whitehorse</u>	<u>Dewey</u>
<u>Armour †</u>	<u>Douglas</u>
<u>Corsica</u>	<u>Douglas</u>
<u>Delmont</u>	<u>Douglas</u>
<u>Harrison</u>	<u>Douglas</u>
<u>New Holland</u>	<u>Douglas</u>
<u>Ipswich †</u>	<u>Edmunds</u>
<u>Bowdle</u>	<u>Edmunds</u>
<u>Roscoe</u>	<u>Edmunds</u>
<u>Hosmer</u>	<u>Edmunds</u>
<u>Hot Springs †</u>	<u>Fall River</u>
<u>Edgemont</u>	<u>Fall River</u>
<u>Oelrichs</u>	<u>Fall River</u>
<u>Faulkton †</u>	<u>Faulk</u>
<u>Cresbard</u>	<u>Faulk</u>
<u>Orient</u>	<u>Faulk</u>
<u>Seneca</u>	<u>Faulk</u>
<u>Rockham</u>	<u>Faulk</u>

<u>Chelsea</u>	<u>Faulk</u>
<u>Onaka</u>	<u>Faulk</u>
<u>Milbank †</u>	<u>Grant</u>
<u>Big Stone City</u>	<u>Grant</u>
<u>Reville</u>	<u>Grant</u>
<u>Stockholm</u>	<u>Grant</u>
<u>Strandburg</u>	<u>Grant</u>
<u>Twin Brooks</u>	<u>Grant</u>
<u>La Bolt</u>	<u>Grant</u>
<u>Marvin</u>	<u>Grant</u>
<u>Albee</u>	<u>Grant</u>
<u>Gregory</u>	<u>Gregory</u>
<u>Burke †</u>	<u>Gregory</u>
<u>Bonesteel</u>	<u>Gregory</u>
<u>Dallas</u>	<u>Gregory</u>
<u>Fairfax</u>	<u>Gregory</u>
<u>Herrick</u>	<u>Gregory</u>
<u>St. Charles</u>	<u>Gregory</u>
<u>Philip †</u>	<u>Haakon</u>
<u>Midland</u>	<u>Haakon</u>
<u>Estelline</u>	<u>Hamlin</u>
<u>Castlewood</u>	<u>Hamlin</u>
<u>Lake Norden</u>	<u>Hamlin</u>
<u>Bryant</u>	<u>Hamlin</u>
<u>Hayti †</u>	<u>Hamlin</u>
<u>Hazel</u>	<u>Hamlin</u>
<u>Lake Poinsett</u>	<u>Hamlin</u>
<u>Miller †</u>	<u>Hand</u>
<u>St. Lawrence</u>	<u>Hand</u>
<u>Ree Heights</u>	<u>Hand</u>
<u>Alexandria †</u>	<u>Hanson</u>
<u>Emery</u>	<u>Hanson</u>
<u>Fulton</u>	<u>Hanson</u>
<u>Farmer</u>	<u>Hanson</u>
<u>Buffalo †</u>	<u>Harding</u>
<u>Camp Crook</u>	<u>Harding</u>
<u>Pierre ††</u>	<u>Hughes</u>
<u>Blunt</u>	<u>Hughes</u>
<u>Harrold</u>	<u>Hughes</u>
<u>Parkston</u>	<u>Hutchinson</u>
<u>Freeman</u>	<u>Hutchinson</u>
<u>Tripp</u>	<u>Hutchinson</u>
<u>Menno</u>	<u>Hutchinson</u>

<u>Dimock</u>	<u>Hutchinson</u>
<u>Olivet †</u>	<u>Hutchinson</u>
<u>Kaylor</u>	<u>Hutchinson</u>
<u>Milltown</u>	<u>Hutchinson</u>
<u>Highmore †</u>	<u>Hyde</u>
<u>Kadoka †</u>	<u>Jackson</u>
<u>Interior</u>	<u>Jackson</u>
<u>Belvidere</u>	<u>Jackson</u>
<u>Cottonwood</u>	<u>Jackson</u>
<u>Wanblee</u>	<u>Jackson</u>
<u>Wessington Springs †</u>	<u>Jerauld</u>
<u>Alpena</u>	<u>Jerauld</u>
<u>Lane</u>	<u>Jerauld</u>
<u>Murdo †</u>	<u>Jones</u>
<u>Draper</u>	<u>Jones</u>
<u>Okaton</u>	<u>Jones</u>
<u>De Smet †</u>	<u>Kingsbury</u>
<u>Arlington</u>	<u>Kingsbury</u>
<u>Lake Preston</u>	<u>Kingsbury</u>
<u>Iroquois</u>	<u>Kingsbury</u>
<u>Oldham</u>	<u>Kingsbury</u>
<u>Badger</u>	<u>Kingsbury</u>
<u>Hetland</u>	<u>Kingsbury</u>
<u>Erwin</u>	<u>Kingsbury</u>
<u>Bancroft</u>	<u>Kingsbury</u>
<u>Madison †</u>	<u>Lake</u>
<u>Ramona</u>	<u>Lake</u>
<u>Wentworth</u>	<u>Lake</u>
<u>Nunda</u>	<u>Lake</u>
<u>Brant Lake</u>	<u>Lake</u>
<u>Chester</u>	<u>Lake</u>
<u>Lake Madison</u>	<u>Lake</u>
<u>Winfred</u>	<u>Lake</u>
<u>Spearfish</u>	<u>Lawrence</u>
<u>Lead</u>	<u>Lawrence</u>
<u>Deadwood †</u>	<u>Lawrence</u>
<u>Whitewood</u>	<u>Lawrence</u>
<u>Central City</u>	<u>Lawrence</u>
<u>North Spearfish</u>	<u>Lawrence</u>
<u>St. Onge</u>	<u>Lawrence</u>
<u>Harrisburg</u>	<u>Lincoln</u>
<u>Tea</u>	<u>Lincoln</u>
<u>Canton †</u>	<u>Lincoln</u>

<u>Lennox</u>	<u>Lincoln</u>
<u>Worthing</u>	<u>Lincoln</u>
<u>Hudson</u>	<u>Lincoln</u>
<u>Fairview</u>	<u>Lincoln</u>
<u>Shindler</u>	<u>Lincoln</u>
<u>Presho</u>	<u>Lyman</u>
<u>Oacoma</u>	<u>Lyman</u>
<u>Kennebec †</u>	<u>Lyman</u>
<u>Reliance</u>	<u>Lyman</u>
<u>Lower Brule</u>	<u>Lyman</u>
<u>Vivian</u>	<u>Lyman</u>
<u>Britton †</u>	<u>Marshall</u>
<u>Veblen</u>	<u>Marshall</u>
<u>Langford</u>	<u>Marshall</u>
<u>Eden</u>	<u>Marshall</u>
<u>Lake City</u>	<u>Marshall</u>
<u>Kidder</u>	<u>Marshall</u>
<u>Salem †</u>	<u>McCook</u>
<u>Canistota</u>	<u>McCook</u>
<u>Bridgewater</u>	<u>McCook</u>
<u>Montrose</u>	<u>McCook</u>
<u>Spencer</u>	<u>McCook</u>
<u>Eureka</u>	<u>McPherson</u>
<u>Leola †</u>	<u>McPherson</u>
<u>Long Lake</u>	<u>McPherson</u>
<u>Wetonka</u>	<u>McPherson</u>
<u>Hillsview</u>	<u>McPherson</u>
<u>Sturgis †</u>	<u>Meade</u>
<u>Summerset</u>	<u>Meade</u>
<u>Faith</u>	<u>Meade</u>
<u>Piedmont</u>	<u>Meade</u>
<u>Blackhawk</u>	<u>Meade</u>
<u>Blucksberg Mountain</u>	<u>Meade</u>
<u>White River †</u>	<u>Mellette</u>
<u>Wood</u>	<u>Mellette</u>
<u>Corn Creek</u>	<u>Mellette</u>
<u>Norris</u>	<u>Mellette</u>
<u>Howard †</u>	<u>Miner</u>
<u>Carthage</u>	<u>Miner</u>
<u>Canova</u>	<u>Miner</u>
<u>Vilas</u>	<u>Miner</u>
<u>Roswell</u>	<u>Miner</u>
<u>Fedora</u>	<u>Miner</u>

<u>Sioux Falls †</u>	<u>Minnehaha</u>
<u>Brandon</u>	<u>Minnehaha</u>
<u>Dell Rapids</u>	<u>Minnehaha</u>
<u>Hartford</u>	<u>Minnehaha</u>
<u>Crooks</u>	<u>Minnehaha</u>
<u>Garretson</u>	<u>Minnehaha</u>
<u>Baltic</u>	<u>Minnehaha</u>
<u>Valley Springs</u>	<u>Minnehaha</u>
<u>Colton</u>	<u>Minnehaha</u>
<u>Humboldt</u>	<u>Minnehaha</u>
<u>Sherman</u>	<u>Minnehaha</u>
<u>Anderson</u>	<u>Minnehaha</u>
<u>Meadow View Addition</u>	<u>Minnehaha</u>
<u>Pine Lakes Addition</u>	<u>Minnehaha</u>
<u>Renner Corner</u>	<u>Minnehaha</u>
<u>Flandreau †</u>	<u>Moody</u>
<u>Colman</u>	<u>Moody</u>
<u>Egan</u>	<u>Moody</u>
<u>Trent</u>	<u>Moody</u>
<u>Ward</u>	<u>Moody</u>
<u>Rapid City †</u>	<u>Pennington</u>
<u>Box Elder</u>	<u>Pennington</u>
<u>Hill City</u>	<u>Pennington</u>
<u>Wall</u>	<u>Pennington</u>
<u>New Underwood</u>	<u>Pennington</u>
<u>Keystone</u>	<u>Pennington</u>
<u>Wasta</u>	<u>Pennington</u>
<u>Quinn</u>	<u>Pennington</u>
<u>Ashland Heights</u>	<u>Pennington</u>
<u>Colonial Pine Hills</u>	<u>Pennington</u>
<u>Green Valley</u>	<u>Pennington</u>
<u>Johnson Siding</u>	<u>Pennington</u>
<u>Rapid Valley</u>	<u>Pennington</u>
<u>Lemmon</u>	<u>Perkins</u>
<u>Bison †</u>	<u>Perkins</u>
<u>Prairie City</u>	<u>Perkins</u>
<u>Gettysburg †</u>	<u>Potter</u>
<u>Hoven</u>	<u>Potter</u>
<u>Lebanon</u>	<u>Potter</u>
<u>Tolstoy</u>	<u>Potter</u>
<u>Sisseton †</u>	<u>Roberts</u>
<u>Wilmot</u>	<u>Roberts</u>
<u>Rosholt</u>	<u>Roberts</u>

<u>Summit</u>	<u>Roberts</u>
<u>New Effington</u>	<u>Roberts</u>
<u>Peever</u>	<u>Roberts</u>
<u>Corona</u>	<u>Roberts</u>
<u>Claire City</u>	<u>Roberts</u>
<u>Ortley</u>	<u>Roberts</u>
<u>White Rock</u>	<u>Roberts</u>
<u>Agency Village</u>	<u>Roberts</u>
<u>Goodwill</u>	<u>Roberts</u>
<u>Long Hollow</u>	<u>Roberts</u>
<u>Woonsocket †</u>	<u>Sanborn</u>
<u>Letcher</u>	<u>Sanborn</u>
<u>Artesian</u>	<u>Sanborn</u>
<u>Forestburg</u>	<u>Sanborn</u>
<u>Batesland</u>	<u>Oglala Lakota</u>
<u>Kyle</u>	<u>Oglala Lakota</u>
<u>Manderson-White Horse Creek</u>	<u>Oglala Lakota</u>
<u>Oglala</u>	<u>Oglala Lakota</u>
<u>Pine Ridge</u>	<u>Oglala Lakota</u>
<u>Porcupine</u>	<u>Oglala Lakota</u>
<u>Wounded Knee</u>	<u>Oglala Lakota</u>
<u>Redfield †</u>	<u>Spink</u>
<u>Mellette</u>	<u>Spink</u>
<u>Tulare</u>	<u>Spink</u>
<u>Doland</u>	<u>Spink</u>
<u>Frankfort</u>	<u>Spink</u>
<u>Northville</u>	<u>Spink</u>
<u>Conde</u>	<u>Spink</u>
<u>Ashton</u>	<u>Spink</u>
<u>Brentford</u>	<u>Spink</u>
<u>Turton</u>	<u>Spink</u>
<u>Fort Pierre †</u>	<u>Stanley</u>
<u>Onida †</u>	<u>Sully</u>
<u>Agar</u>	<u>Sully</u>
<u>Cow Creek</u>	<u>Sully</u>
<u>Mission</u>	<u>Todd</u>
<u>St. Francis</u>	<u>Todd</u>
<u>Antelope</u>	<u>Todd</u>
<u>Okreek</u>	<u>Todd</u>
<u>Parmelee</u>	<u>Todd</u>
<u>Rosebud</u>	<u>Todd</u>
<u>Soldier Creek</u>	<u>Todd</u>
<u>Spring Creek</u>	<u>Todd</u>

<u>Two Strike</u>	<u>Todd</u>
<u>White Horse</u>	<u>Todd</u>
<u>Winner †</u>	<u>Tripp</u>
<u>Colome</u>	<u>Tripp</u>
<u>New Witten</u>	<u>Tripp</u>
<u>Hamill</u>	<u>Tripp</u>
<u>Parker †</u>	<u>Turner</u>
<u>Centerville</u>	<u>Turner</u>
<u>Marion</u>	<u>Turner</u>
<u>Viborg</u>	<u>Turner</u>
<u>Hurley</u>	<u>Turner</u>
<u>Chancellor</u>	<u>Turner</u>
<u>Monroe</u>	<u>Turner</u>
<u>Davis</u>	<u>Turner</u>
<u>Dolton</u>	<u>Turner</u>
<u>North Sioux City</u>	<u>Union</u>
<u>Beresford</u>	<u>Union</u>
<u>Elk Point †</u>	<u>Union</u>
<u>Alcester</u>	<u>Union</u>
<u>Jefferson</u>	<u>Union</u>
<u>Dakota Dunes</u>	<u>Union</u>
<u>Richland</u>	<u>Union</u>
<u>Mobridge</u>	<u>Walworth</u>
<u>Selby †</u>	<u>Walworth</u>
<u>Java</u>	<u>Walworth</u>
<u>Glenham</u>	<u>Walworth</u>
<u>Akaska</u>	<u>Walworth</u>
<u>Lowry</u>	<u>Walworth</u>
<u>Yankton †</u>	<u>Yankton</u>
<u>Gayville</u>	<u>Yankton</u>
<u>Mission Hill</u>	<u>Yankton</u>
<u>Volin</u>	<u>Yankton</u>
<u>Lesterville</u>	<u>Yankton</u>
<u>Utica</u>	<u>Yankton</u>
<u>Dupree †</u>	<u>Ziebach</u>

b. State Engagement of Local Jurisdictions

The State of South Dakota has long engaged local jurisdictions to support interoperable communications. Current representation at the local level within the SDPSCC is:

- County Level: Emergency Managers Association, Sheriff's Association, Association of County Officials

- Local Level: Police Chief's Association, Association of Emergency Medical Technicians, South Dakota Firefighters

It will be our approach to continue the current two-way communications through these representatives as well as provide outreach to the local level through current staff.

c. Past Methodology for Local Coordination

Section b. outlines what has been our approach in the past. In addition to the SDPSCC, our technical staff at State Radio has responded to any requests for assistance and has such established a good relationship with these entities.

The SDPSCC has also coordinated with the state SAA on coordination of grants such as the PSIC, IECGP, and other statewide grants. The SDPSCC has routinely set guidance for equipment, services, and other relevant guidelines for grant use and funds expenditures. Council members have routinely been called upon to explain to their representative groups the guidelines and allowable expenses of these grants.

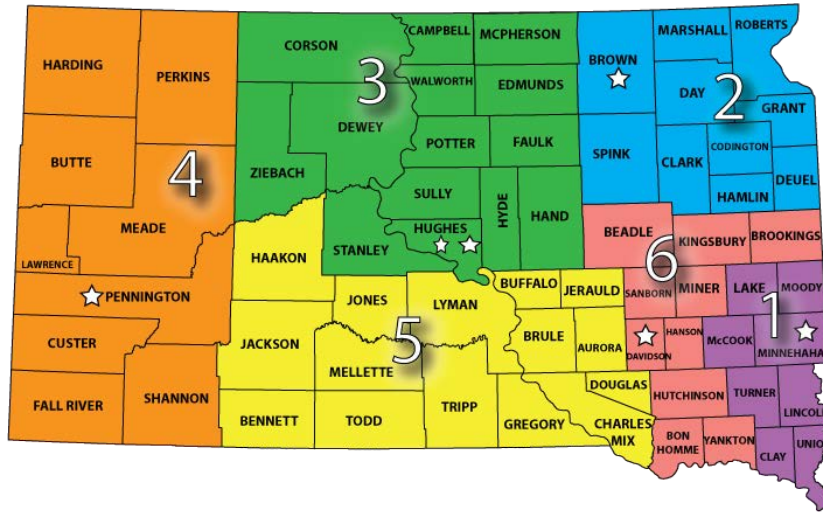
d. Past Challenges for Local Coordination

Our most significant challenge when engaging local entities is the sheer size of our state and the volunteer nature of most local first responders. We anticipate the broadband subcommittee handling the stakeholder's needs and advising FirstNet for hardening, coverage requirements, reliability, security, legal, and financial/business analysis. Finally we expect that the SDPSCC will provide oversight to the broadband subcommittee, and relay information from that group out to the first responders that they represent. The SDPSCC is well attended and in eight years of operation we have always made a quorum, allowing us to conduct business. This dedication to their fellow first responders demonstrates a commitment to improving communications for all in our state. Our past experience with such programs as radio training have involved utilizing statewide meeting to present and gather feedback that allow BIT and the SDPSCC to tailor programs to best fit the needs of users. Our radio training program has been through three revisions before release in order to provide the users across the state with an appropriate program. We view that interaction and feedback as imperative for success of the NPSBN.

5. Regional Coordination

a. Regional Representation

South Dakota does have some regional groups, primarily associated with emergency management and regional response. The Office of Emergency Management (OEM) has the following six organized and coordinated regions:



The state also has region Incident Management Assistance Teams (IMAT) that require regional communications.

The regional coordinators for the above six OEM regions work through the Emergency Management representative on the SDPSCC. We expect the NPSBN project to be coordinated through our SDPSCC and that the current communication paths in place will continue to provide input and direction.

b. Interstate Regional Bodies

South Dakota has a long history of coordinating activities and communications. As South Dakota was the first constructed statewide trunked radio system in our region, we have coordinated with and continue to coordinate with North Dakota, Minnesota, Nebraska, Wyoming, and Montana. In addition our SWIC is also on the FEMA Region 8 Regional Emergency Communications Coordination Working Group (RECCWG). The Region 8 RECCWG has been proactive, and is currently working on a regional communications plan.

A regular attendee and agenda item of our SDPSCC meetings is the OEC Regional Coordinator Dan Hawkins, who not only brings the perspective of the DHS OEC, but also the other states in FEMA Region 8.

c. Leveraging Existing Coordination

It is the intent of South Dakota to leverage these regional working relationships to coordinate with FirstNet as a single body, which hopefully will make for a more efficient process for both our regional communicators, and also FirstNet.

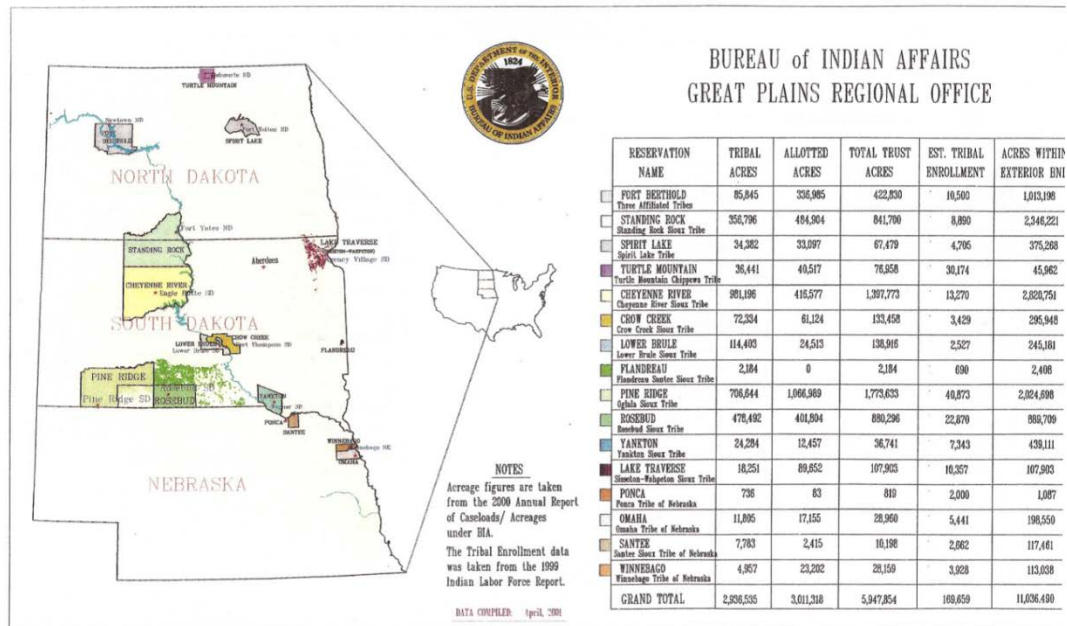
d. Other State Collaboration

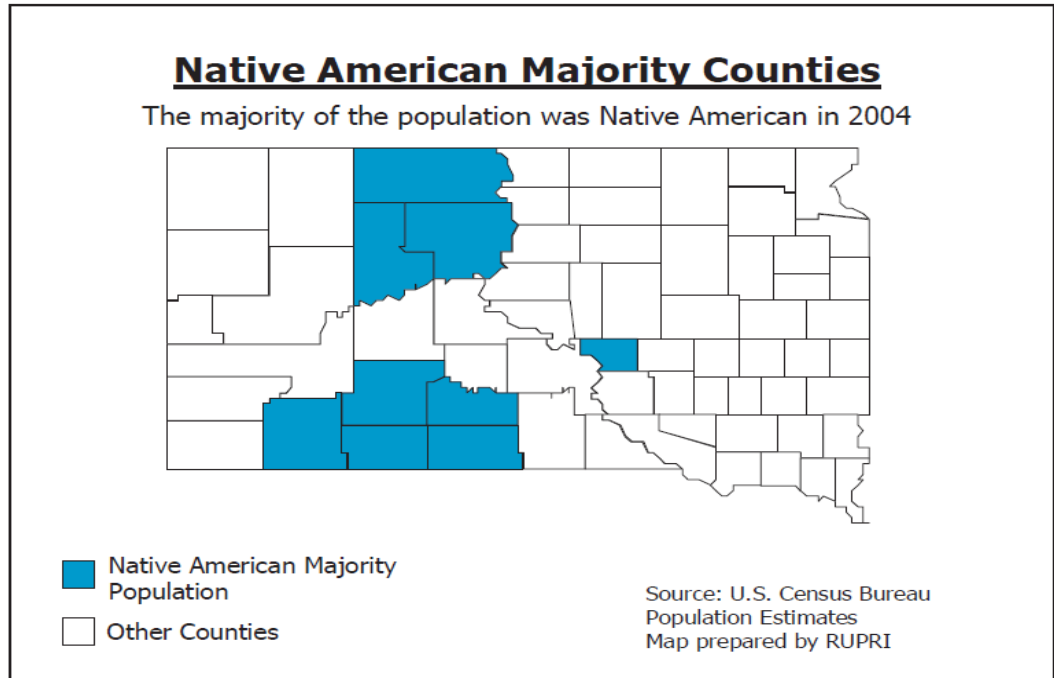
South Dakota has participated in the Western States coalition, which encompasses states from North Dakota down through Texas and everything west. This group meets bi-weekly via teleconference and web meeting to discuss current issues and educate our representatives on current FirstNet related issues.

6. Tribal Nations

a. Current Tribal Areas

There are currently nine federally recognized tribes within the borders of South Dakota.





b. Tribal Involvement

The SDPSCC does have a tribal member from the Lower Brule Sioux Tribe, but for coordination with all of the tribes, we typically go through the state Office of Tribal Relations to ensure that all entities in the state are contacted appropriately. It is our intent to solicit as much participation from these tribal entities as possible as we move forward into the NPSBN project. It is our intent to provide any travel reimbursements possible to ensure that financial limitations do not preclude any tribal entity from participating.

c. Past Tribal Coordination

The State of South Dakota currently provides access to the statewide communications system to all tribes in the state. As such we have lines of communication open to each group. Additionally we have completed two cooperative communication sites with the Pine Ridge reservation, have developed a communication plan for the Standing Rock tribe, and have worked with tribal contractors to set up radios statewide. This process has opened many doors for coordination between state and tribal communicators statewide and we view this as a building block for broadband coordination.

d. Tribal Participation

Larry Jandreau of the Lower Brule Sioux Tribe is an appointed member of our SDPSCC and attends regularly.

e. State Tribal Strategy

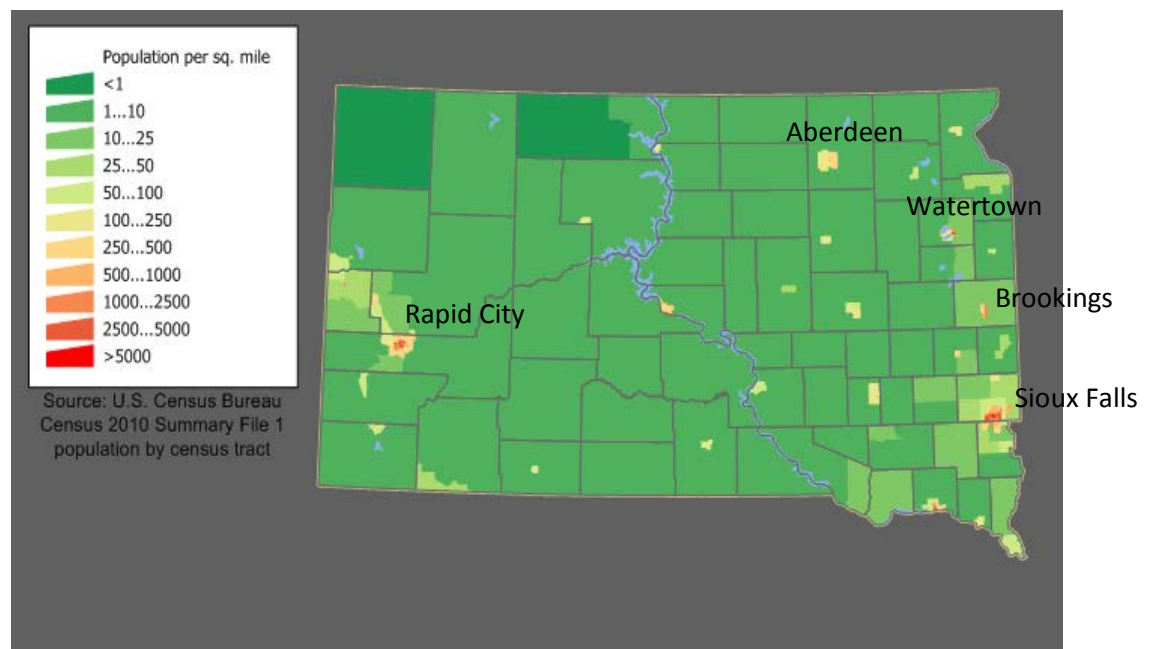
The primary difficulty is establishing a point of contact within the tribe that we can work with on technical issues, as each tribe is a separate entity and cannot be dealt with collectively. In our case we have established most of those contacts, but will

continue to work through the Office of Tribal Relations to include additional personnel that can contribute to the process.

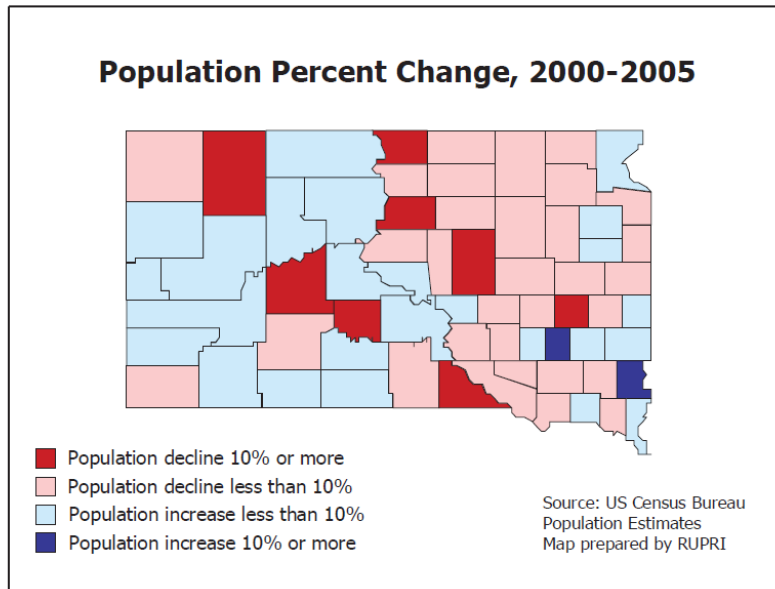
7. Rural Coverage

a. Classifying rural areas

Considering that South Dakota has a total population of 853,175 and that 45% of the population lives in the 11 cities that have over 10,000 residents, one could consider most of South Dakota rural. To further delineate the urban/rural areas, 27% of the population of the state lives in the two largest cities, Sioux Falls and Rapid City. From the Census 2010 criteria for urban areas, a population center of 50,000 (urban nucleus) or a population density over 1,000 per square mile qualifies an area as “urban”. Using the defined criteria, on the follow page map the only urban areas are Sioux Falls and Rapid City (Red). There are 25 defined “urban clusters” or population areas of 2500 or more (defined by yellow to lighter red), with only three additional cities over 20,000 (noted below). South Dakota will use all areas outside of Sioux Falls and Rapid City to define rural, as most of the “urban clusters” are regional commerce centers for very rural areas. Many of our first responder agencies located in these “urban clusters” provides fire, EMS, and law enforcement services for the surrounding rural areas. The following diagrams outline the “urban clusters”, and the metrics for establishing those areas. The information on the following page allows for some additional granularity.



Additionally, much of the state is in decline from a population perspective, putting more pressure on the emergency services on those areas that are still able to support and staff the departments.



From 2000 to 2005, 39 counties in South Dakota lost population, all but one of them nonmetropolitan. Only two counties experienced population gains over 10 percent (1 metro and 1 nonmetro county). Again, the fastest growth was in Lincoln County, increasing 38.2 percent during this time period.

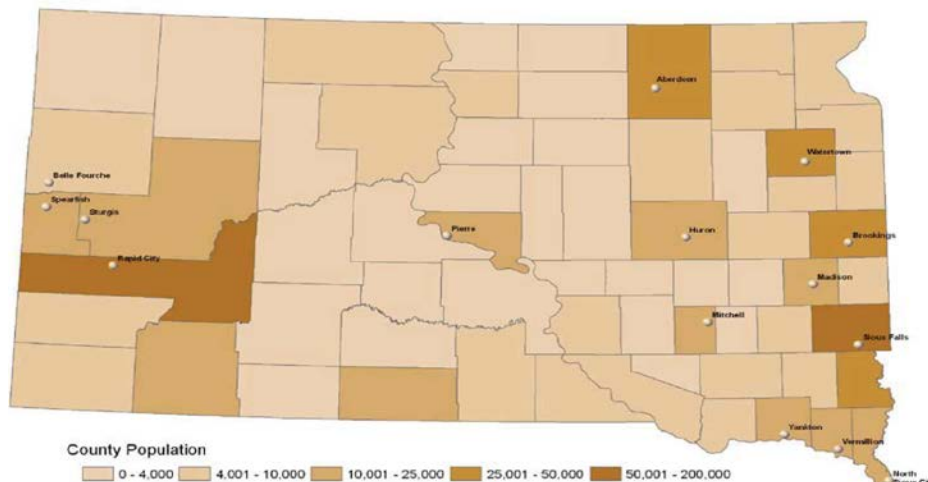
POPULATION

Population of Largest Cities & Counties (2009)

CITY	POPULATION	COUNTY	POPULATION
Sioux Falls (<i>Minnehaha Co.</i>)	157,935	Minnehaha	183,048
Rapid City (<i>Pennington Co.</i>)	67,107	Pennington	100,850
Aberdeen (<i>Brown Co.</i>)	24,992	Lincoln	41,218
Watertown (<i>Codington Co.</i>)	20,350	Brown	35,204
Brookings (<i>Brookings Co.</i>)	20,184	Brookings	30,056
Mitchell (<i>Davison Co.</i>)	14,747	Codington	26,168
Pierre (<i>Hughes Co.</i>)	14,072	Meade	23,916
Yankton (<i>Yankton Co.</i>)	13,798	Lawrence	23,498
Huron (<i>Beadle Co.</i>)	11,281	Yankton	21,986
Vermillion (<i>Clay Co.</i>)	10,417	Davison	18,931

Source: U.S. Census Bureau, 2009 Annual Estimates of the Resident Population for Incorporated Places and Counties, Population Division.

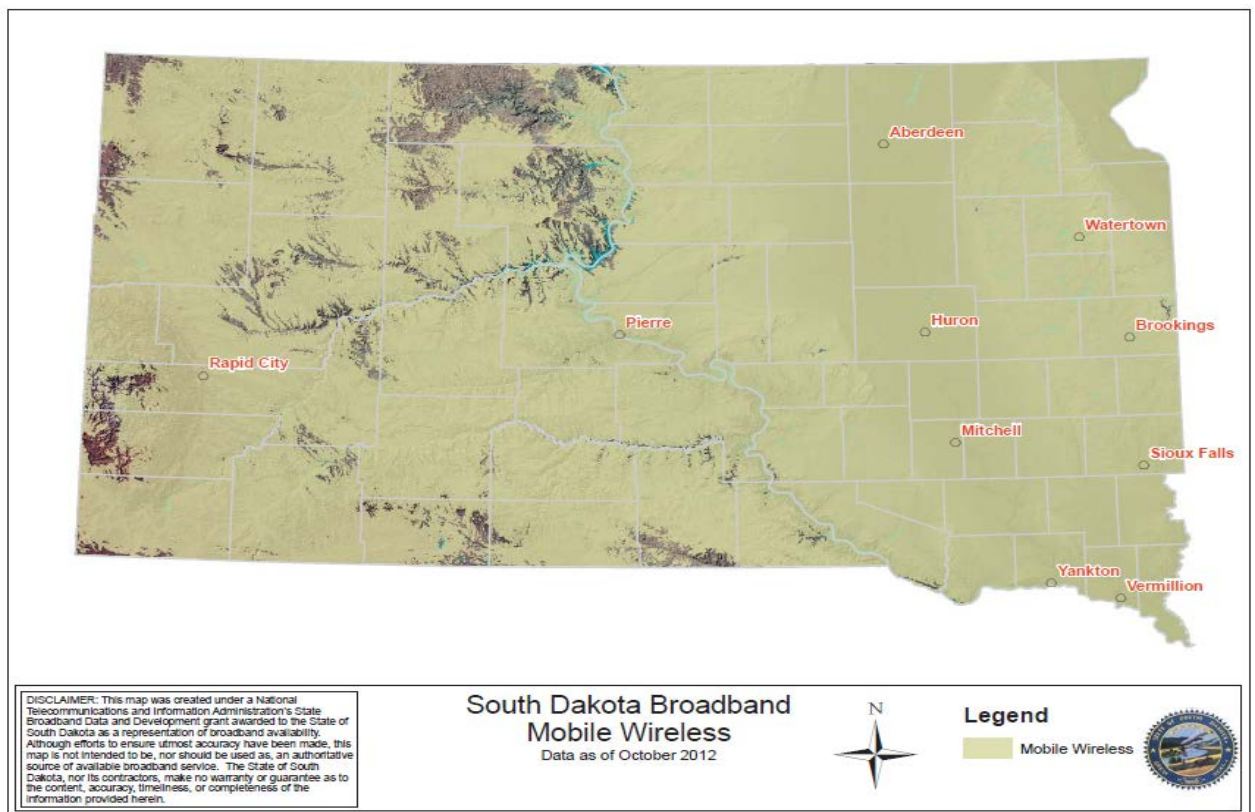
County Populations (2009)



b. Broadband Availability

For the purposes of the SLIGP, we will concentrate on wireless broadband. The following statistics and map on this page has been generated as part of the South Dakota Broadband Development project, a BTOP funded process. All areas in beige are areas covered by 3G to LTE service.

Total Sq. Miles in South Dakota	77,129.8	
Total Sq. Miles in SD with Mobile Wireless >= 768kbps download	72,321.0	93.77%
Total Sq. Miles in SD with LTE service	28,402.8	36.82%



c. Prioritizing Coverage

There are too many factors outside the control of our governance and the State of South Dakota related to coverage and participation to make engineering, and budgetary goals. If this project continues as anticipated down the public/private partnership path, we have basically two providers in state for wireless services; Verizon and AT&T. The State of South Dakota contracts with and has regular contact with these two vendors, and the above map is continuously improving in the dark areas (underserved). We see this as our only practical path to improved coverage until

the system requirements are released and put out for RFP. A component of the outreach will be development of underserved areas, and feed that back into our process.

The one thing we can do is to provide outreach to the locals across the state, assess interest, and relay that potential interest to our vendors as well as being data collectors for the second phase of the Implementation Grant. With this in mind, the following is an outline of the process we anticipate (**Bold items are milestones**):

1. Continuing outreach through association meetings, site visits, and different media outlets.
 2. **Modified SLIGP request by 6-23-2015.**
 3. **Provide response to 3rd Public Notice before 6-10-2015.**
 4. **Provide response to Draft RFP by 9-30-2015.**
- Data Collection Process (Phase 2)
 1. **Complete document for mailing and the Mobile Data Survey Tool (MDST) by 6-5-2015.**
 2. **Mail MDST request to stakeholders by 6-5-2015**
 3. **Deadline for receiving the MDST 7-31-2015.**
 4. Continue to collect allowable data that will enable South Dakota to better evaluate state plan.

8. Existing Infrastructure

a. Existing Databases

South Dakota has an extensive trunked radio communications system that is centrally managed and maintained by BIT State Radio staff. As each radio on the system requires an ID, and we have basically every first-responder agency equipped with radios on the system, we have an excellent record of agencies, contacts, equipment, towers in use on that system. Additionally, as BIT is a centralized IT/communications agency within state government, we have same office access to:

- South Dakota Public Broadcasting, towers (broadcast and microwave), potential microwave backhaul, technical resources.
- Networking Group. Wide-area connectivity, current BTOP program administered here with GIS database, telco providers and networks.
- Database Group. Servers and server infrastructure, state databases.
- Development Group. Programmers, web development, South Dakota Law Enforcement Telecommunications System (SDLETS), NCIC, NLETS, other national and state law enforcement database access & network. The Chief Terminal Officer for South Dakota is layered under this group, and maintains all current user ID's for current mobile access.
- Telecommunications Group. Telephone contracts, voice services, daily contact with telecom providers.

b. Updating Databases

Over 900 stakeholder agencies have been added to the CASM database and will be used for mailing and MDST purposes. This will be a continuous process of updates and corrections.

9. Existing Government-Owned Networks

a. Hardening Requirements

Hardening requirements for the FirstNet infrastructure in South Dakota will be determined by the broadband subcommittee as that group is set up and becomes functional.

State networks are hardened, but primary concern in this part of the country is the commercial power availability. Ice storms are typically our worst service-affecting natural disaster here. We do get high winds and occasional tornados, but the loss of transmission lines for power delivery continue to be our primary source of outages.

b. Contractual Requirements

The only current contractual requirement we currently have for reliability is through use of the Service Level Agreement, or SLA. The SLA provides a monetary penalty for downtime on the circuit, and is invoked whenever the circuit it down, for whatever reason.

10. Network Users

a. Identifying Users

The State of South Dakota/BIT maintains the trunked radio system that nearly every first responder uses, either on a primary or secondary basis. Trunked radio systems require an ID to be issued to each radio on the system, so we have a pretty complete view of the agencies and associated users within the state.

A second advantage to BIT being a combined IT/Communications bureau is that we have the current law enforcement telecommunications system (SDLETS) that is maintained and operated from within our group. Our Control Terminal Officer maintains the database of those not only connected by wireline, but those agencies and units that get their connection wirelessly.

We have combined our data from these and other sources into the CASM database, giving us a functional, GIS-based user directory.

11. Education and Outreach

a. Planning

South Dakota views education and training as two separate issues. The outreach and education is the initial step in the outlined SLIGP process. This will involve attending state meetings, arranging meetings with locals, tribes, and state/federal agencies. It is our intent to accomplish this through a cooperative effort by the SWIC and the regional contractors. It is our intent after hiring the contractors to develop an acceptable outreach and education strategy that will allow us to have a face-to-face meeting with every willing related entity across the state.

As outlined earlier, the SDPSCC establishes programs and protocols related to public safety communications within the state, and will coordinate the outreach and eventually the education direction with the consultant/contractors retained for the SLIGP process.

12. Legal Obstacles

a. Defining Obstacles

This question was posed to our Office of Attorney General for Comment. The narrative question #12 asks for likely impede our ability to participate in the NPSBN or SLIGP process.

The response came back that the Governor did have the authority to opt-in to the FirstNet plan as it does not commit us to any state funding or resources. A decision to opt-out would take legislative action as state funds would be required.

13. Tools

a. Currently Used Tools

The State of South Dakota has purchased some tools for the current BTOP broadband initiative, and is using other tools for interoperability purposes:

- ESRI ArcGIS software (will need additional licenses and servers)
- EDX Signal, propagation and coverage prediction software (licenses)
- CASM mapping tool, techs trained but little entered to date
- RadioSoft propagation and coverage prediction software

b. Additional Tools

The State of South Dakota is aware that a survey tool is being developed or has been developed by OEC to help with the outreach effort and collect data.

14. Phase Two Funding

a. Description

Some of the data sets that are valuable to our current operations and potentially the NPSBN will begin to be gathered with the outreach and education initiative outlined earlier in this narrative. Phase two activities will ramp up this process, and formalize the data entry process of the following elements and activities:

- Continuing education and outreach for all relevant stakeholders
- Continue with aligning the SCIP, or a plan complementary and similar to the SCIP, describing the public safety needs that South Dakota expects FirstNet to address, plus relevant milestones
- Continue developing procedures to ensure local and tribal representation when the state is consulting with FirstNet
- Identifying potential users of the nationwide public safety broadband network
- Performing FirstNet-determined data collection activities for coverage objectives and coverage phasing
- Performing FirstNet-determined data collection activities for users and their operational areas
- Performing FirstNet-determined data collection activities for capacity planning;
- Performing FirstNet-determined data collection activities to help identify current service providers and procurement vehicles

15. Other

a. Other Collaboration

South Dakota has not retained the services of any consultants for the process of this application, but we have completed a significant amount of research recently on the NPSBN and associated process. We have had multiple calls with the following states on the grant application as well as 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, Utah, and Wyoming. These calls were invaluable for perspective on particular narrative questions, engaging FirstNet and NTIA resources.

Outside of our regional collaboration, we have utilized guides published by RCC Consultants, resources provided by FCC, and have participated in numerous calls set up by NCSWIC, NGA, NASCIO, and others.

Within South Dakota, we have had input from our governance members (SDPSCC), the State 911 Board