South Dakota FirstNet Coverage Objectives

Baseline Map Analysis:

The South Dakota NPSBN team has spent the past 5 months developing different criteria for review by our governance, the South Dakota Public Safety Communications Council (SDPSCC) to factor in while determining the adequacy of the baseline map and necessary enhancements including:

- A limited amount of CAD data provided, and analysis of that.
- Determination of highways maintained and patrolled by statewide units outside those listed.
- Offenses reported by capita for all towns and counties statewide.
- Tribal criminal statistics.

Shortcomings

The baseline map as envisioned by FirstNet does not meet the operational needs of first responders in our state:

- For statewide units it does not come close to cover the roadways maintained and patrolled.
- Does not provide jurisdiction-wide coverage to a single county in our state.
- Does not provide region-wide coverage to accommodate emergency response, only recovery.
- Differences in capabilities of terrestrial and satellite is enough to make that a last resort only.
- Roaming is yet undetermined, and FirstNet coverage does not approach commercial.

Conclusion:

The SDPSCC was nearly unanimous in the conclusion that a distributed buildout in our state would be far less useful and less well-received than a regional approach. See the Phased Map below.

Almost all aspects of state and to a large degree, mutual aid at the local level are conducted at a regional level including:

- State agencies such as Highway Patrol, Game Fish and Parks, Emergency Management, Department of Transportation, and other operate along similar designated regions.
- Local region-wide response services such as SWAT, Hazmat, mobile command centers, etc. operate regionally and chances are they will use all tools at their disposal in the course of responding. It would not be efficient or effective to have equipment and polices for one area they respond to and another set for a different location.
- Each phase includes tribal areas

Phase 1 comments:
- Includes the primary need (in South Dakota) for mobile broadband priority over commercial use during the Sturgis Rally event.
    - Primarily the need for capacity versus coverage needs in most other areas of South Dakota
- Includes Rapid City (2nd largest city in SD) area as well as the Black Hills
    - Tourism brings many visitors to the area
- Includes Federal Lands
    - US Forest Service - Black Hills National Forest
- Includes the Mount Rushmore National Memorial
    - "America's Shrine of Democracy"
- Includes the Badlands National Park (U.S. National Park Service)
- The area is covered by only a few providers
    - Most area is covered by one provider
    - Limiting the amount of coordination should make it easier to ramp up and implement
- The area covers a significant area of tribal lands

Phase 2 comments:
- Includes the city of Sioux Falls (Largest city in SD)
    - Capacity needed versus coverage needs
- Includes other areas where Sioux Falls first responders provide mutual aid
- Includes coverage of I-29 interstate in the SE part of SD
- The area covers tribal lands

Phase 3 comments:
- Includes additional larger cities
- Includes coverage of I-29 interstate in the NE part of SD
    - Phase 3 gives us full coverage on I-29 in our state
- The area covers the tribal lands in the NE corner of our state

Phase 4 comments:
- Includes coverage of I-90 interstate in the central part of SD
    - Phase 4 finalizes full coverage on I-90 in our state
- Includes much of the Missouri river (Dams, recreation, etc.)
- Includes our Capital City of Pierre
- The area covers the tribal lands in the NE corner of our state

Phase 5 comments:
- Fills in the rest of our state in a regional phased in approach
- This area is the least populous
- Many roads are traveled to the oil boom in North Dakota
- Finalizes coverage of the Missouri river (Dams, recreation, etc.)
- Finalizes coverage our tribal lands

South Dakota Governance Adopted Buildout Plan Expects FirstNet to Provide Best Effort to Cover Regions