



Nevada Shared Radio System Project Update

WCRCS Joint Operating Committee
Meeting, January 27, 2017

Agenda Item 6



Overview

- Nevada Shared Radio System (NSRS)
 - What and Why?
- First Steps (How?) and Timeline (When?):
 - Governance & SLA
 - Timeline → RFP to Project completion
- System Financing
- Agency Costs:
 - System cost estimate
 - Terminal Equip. (Handheld and Mobile Radios)



What is NSRS and why?

■ What is NSRS?

- Formal agreement on governance, operation, maintenance, & service of the statewide shared radio system
- The agreement is between NV Energy, Nevada DOT and Washoe County.
 - System Infrastructure Owners (SIO)



■ Why NSRS?

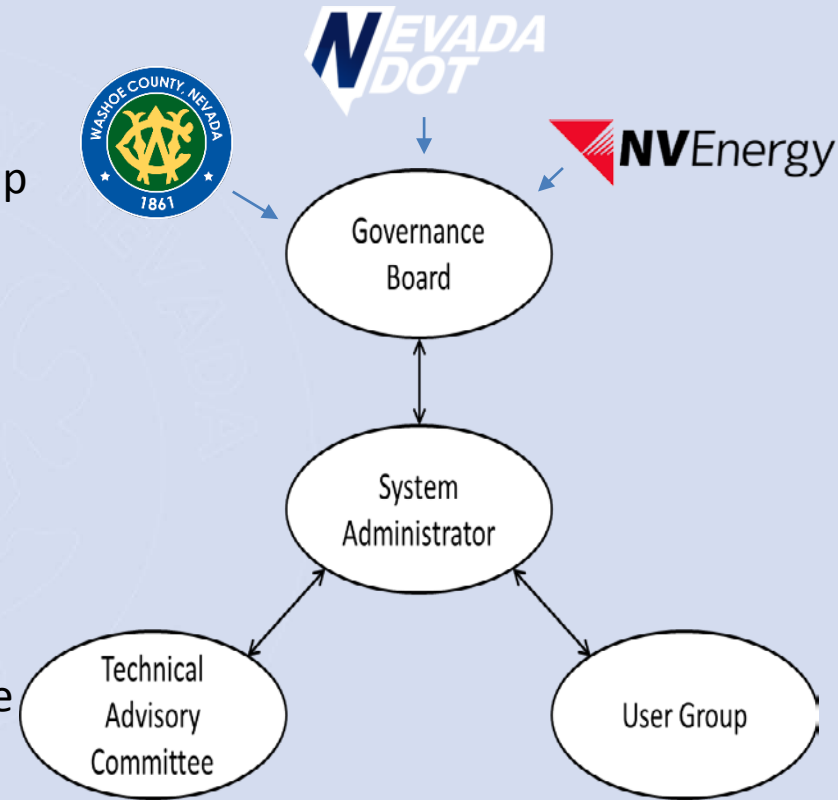
- EDACS end of life, end of support.
 - 10 year maximum continued use.
- New Technology – New Standard
 - **Project 25 (P25)**
 - Digital
 - IP based
 - Centrally managed
 - Changes in one part of system may impact entire system





NSRS Governance Structure

- **Governance Board:**
 - *System Infrastructure Owners (SIO)*
 - One representative from each SIO makes up the Governance Board.
 - Board members have decision making and funding authority for their respective System.
- **System Administrator**
 - Reports directly to the Governance Board
- **Technical Advisory Committee (TAC)**
 - One representative from each SIO will have voting authority on the TAC.
- **Users Group**
 - User Group submits recommendations or requests to the System Administrator.





NSRS Service Level Agreement

- **The Service Level Agreement (SLA) establishes a minimum level of:**
 - Quality, Response times, Service, Maintenance, Access, and Accountability.
- ***“Each SIO shall be staffed to maintain the System in a manner that supports a Public Safety radio system.”***
- SIOs perform all maintenance and repairs on their respective portions of the system.
- SLA defines guidelines for SIOs:
 - Communication and Coordination with System Administrator
 - Maintenance and inspections as defined by the **National Public Safety Telecommunications Council** report: ***“Defining Public Safety Grade Systems and Facilities.”***
 - Service Requests
 - Reporting
 - Outages including Emergency Outages



NSRS Contract

- **The NSRS Contract defines the relationship between NV Energy, Nevada DOT and Washoe County (“the Parties”). Parties agree to:**
 - Create & Maintain Governance Structure and Service Level.
 - Select a single Vendor from whom each party will purchase equipment and services.
 - Each Party is responsible for its own sites’ design, construction, operation and maintenance.
 - Negotiate with selected vendor but not execute a contract until all parties have conducted successful negotiations.
- **In Addition:**
 - Defines when a party may suspend service.
 - Defines termination of contract by individual parties ensuring continued operation of the NSRS for remaining parties.
 - Defines record keeping and reporting guidelines.



NSRS Timeline – Washoe County only

Task	Start	End	Duration (days)	01/01/17	04/01/17	07/01/17	10/01/17	01/01/18	04/01/18	07/01/18	10/01/18	01/01/19	04/01/19	07/01/19	10/01/19	01/01/20	04/01/20	07/01/20	10/01/20	01/01/21	04/01/21	07/01/21	10/01/21
RFP	01/01/17	07/01/17	181																				
Vendor Selection	07/01/17	07/15/17	14																				
System Engineering and Int.	07/15/17	01/01/18	170																				
System Configuration	01/01/18	04/01/18	90																				
Final Contract Pricing	04/01/18	05/01/18	30																				
System Financing	02/01/18	07/01/18	61																				
Equipment Order	07/01/18	01/01/19	184																				
Site Construction	07/01/18	10/01/19	457																				
Equipment Delivery and Staging	01/01/19	07/01/19	181																				
Installation	04/01/19	01/01/20	275																				
Testing	10/01/19	04/01/20	183																				
Acceptance	04/01/20	05/01/20	30																				
EDACS System Maintenance	01/01/17	04/01/21	1551																				
EDACS Decommission	04/01/21	10/01/21	183																				



NSRS RFP

Task	Start	End	Duration (days)	01/01/17	04/01/17	07/01/17	10/01/17	01/01/18	04/01/18
RFP	01/01/17	07/01/17	181						
Vendor Selection	07/01/17	07/15/17	14						
System Engineering and Integration	07/15/17	01/01/18	170						
System Configuration	01/01/18	04/01/18	90						
Final Contract Pricing	04/01/18	05/01/18	30						

- **RFP is for Vendor Selection for the entire statewide system.**
 - After vendor selection, each individual SIO will work with vendor to design and engineer their portion of the system.
 - SIO specific cost will be known only after Final Contract Pricing is decided (approx. April, 2018)



NSRS – System Cost Estimate

- **Washoe County Regional Communications System:**
 - \$12.5 – 20.5 M

Description	Low cost Estimate	High Cost Estimate
Equipment Total	\$5,800,000	\$8,000,000
Services	\$3,200,000	\$4,000,000
Additional Sites - Greenfield	\$3,500,000	\$8,500,000
Total	\$12,500,000	20,500,000



System Financing

Task	Start	End	Duration (days)	01/01/17	04/01/17	07/01/17	10/01/17	01/01/18	04/01/18
System Financing	05/01/18	07/01/18	61						

- **To be determined, but:**

- Agencies need to consider increased costs for upgrades to the system and to their own terminal equipment.
- Agencies may need to work together and with Washoe County to determine an equitable financing plan.



Agency Costs

Agency	System Low Estimate	System High Estimate	Radio Estimate *
Nevada Air National Guard	\$90,000	\$140,000	\$122,300
Reno-Tahoe Airport Authority	\$660,000	\$1,070,000	\$923,000
Drug Enforcement Administration	\$70,000	\$120,000	\$31,500
Federal Bureau of Investigations	\$60,000	\$100,000	\$550
Incline Village General Improvement District	\$10,000	\$10,000	\$14,500
North Lake Tahoe Fire Protection District	\$250,000	\$410,000	\$400,000
Carson City Fire Department	\$10,000	\$10,000	\$29,000
Pyramid Lake Paiute Tribe	\$230,000	\$370,000	\$325,000
REMSA	\$60,000	\$90,000	\$95,000
Reno, City of	\$2,890,000	\$4,730,000	\$2,375,000
Reno-Sparks Indian Colony	\$150,000	\$240,000	\$161,000
Sparks, City of	\$1,200,000	\$1,960,000	\$790,000
Truckee Meadows Fire Protection District	\$920,000	\$1,510,000	\$510,000
Truckee Meadows Water Authority	\$160,000	\$250,000	\$462,000
University of Nevada, Reno	\$170,000	\$280,000	\$225,000
University of Nevada, Reno - TMCC	\$70,000	\$100,000	\$67,000
US Department of Veterans Affairs Police	\$10,000	\$10,000	\$30,000
Washoe County School District	\$2,360,000	\$3,870,000	\$2,275,000
Washoe County	\$3,230,000	\$5,290,000	\$4,200,000

* Radio costs are the responsibility of each agency outside of system financing.



Summary

- **NSRS** is the formal framework for governance, operation, maintenance, & service of the statewide shared radio system
- **RFP:** After selection of one system vendor, each SIO will work with the vendor to design, engineer and negotiate system upgrades for their respective infrastructure.
- **Timeline:** Five years from RFP release to EDACS decommission.
- **System Costs for Washoe County Regional Communication System:**
 - \$12.5 - \$20.5 M
 - WCRCS agencies have a stake in an up to date and reliable public safety radio system.
 - WCRCS agencies should plan for contributing to the system upgrade and cooperate with each other and Washoe County at finding an equitable financing solution.