



Nevada Shared Radio System Update

WCRCS 800 MHz Joint Operating
Committee Meeting, July 28, 2017

Agenda Item 11



NSRS - Current Status

- NSRS Contract was signed and is in effect as of May 8th, 2017.
- RFP for Statewide P25 Phase II System has been released.
 - Proposer Questions have been submitted and answers posted on July 11th.
 - Responses are due August 18th.



NSRS Overview

- Nevada Shared Radio System (NSRS)
 - What and Why?
- Contract (How?) and Timeline (When?):
 - Governance & SLA
 - Timeline → RFP to Project completion
- 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?

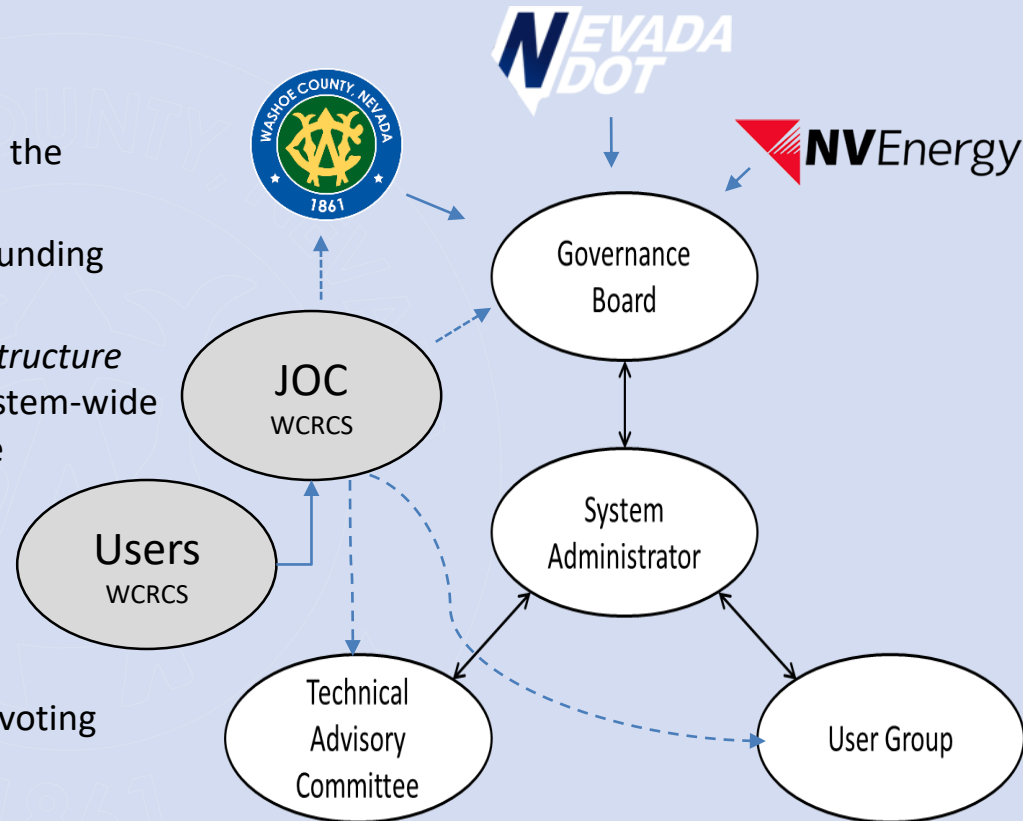
- EDACS end of life, end of support.
 - 10 year maximum continued use.
- New Technology – New Standard
 - **Project 25 (P25)**
 - Digital
 - IP based
 - Centrally managed
 - Changes in one part of system may impact entire system





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.
 - *JOC is not officially part of the governance structure* but any decisions made by JOC that have system-wide impacts will be reviewed by the TAC and the Governance Board
- **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.
 - ***The parties to the agreement will not pay for use of another party’s respective portion of the system.***
 - Term of contract: contract date – December 31, 2018
 - Automatic renewal every 2 years.
- **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

Estimated timeline for Washoe County only

ID	Task Name	Start	Finish	Duration	2017			2018				2019				2020				2021			
					Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1	RFP Release and Proposal Review	5/1/2017	10/30/2017	26.2w																			
2	Vendor Selection	11/1/2017	12/29/2017	8.6w																			
3	System Engineering and Integration	1/2/2018	7/2/2018	26w																			
4	System Configuration	5/1/2018	8/13/2018	15w																			
5	Final Contract Pricing & Negotiation	8/1/2018	8/31/2018	4.6w																			
6	System Financing	7/2/2018	11/27/2018	21.4w																			
7	Site Construction	12/3/2018	3/3/2020	65.4w																			
8	Equipment Delivery and Staging	5/1/2019	12/30/2019	34.8w																			
9	Installation	8/1/2019	8/3/2020	52.6w																			
10	Testing	5/1/2020	11/2/2020	26.4w																			
11	Acceptance	10/1/2020	6/29/2021	38.8w																			
12	EDACS System Maintenance	5/1/2017	6/29/2021	217.4w																			
13	EDACS Decommission	6/29/2021	2/28/2022	35w																			

- With input from Washoe County, Vendor will likely drive this timeline starting at item 3 – System Engineering and Integration.
- WCRCS will continue EDACS system maintenance during entire process and until P25 system has passed all tests and acceptance criteria.



NSRS RFP

ID	Task Name	Start	Finish	Duration	2017			2018				Q1
					Q2	Q3	Q4	Q1	Q2	Q3	Q4	
1	RFP Release and Proposal Review	5/1/2017	10/30/2017	26.2w								
2	Vendor Selection	11/1/2017	12/29/2017	8.6w								
3	System Engineering and Integration	1/2/2018	7/2/2018	26w								
4	System Configuration	5/1/2018	8/13/2018	15w								
5	Final Contract Pricing & Negotiation	8/1/2018	8/31/2018	4.6w								

- **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. August 2018)



NSRS – Washoe County Cost Estimate

■ Washoe County Regional Communications System Cost Estimate:

– \$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



P25 System Upgrade - Possible 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	\$240,000	\$380,000	\$292,000
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.
- Agency Costs are likely to be spread across the financing period, e.g. 10 years.



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: 5-7** 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.