



Items 8 & 9 – Presentation and Discussion P25 Radio System Construction costs and related funding

P25 Joint Operating Committee
meeting, January 25, 2024

Outline



- Discuss WCRCS Infrastructure fund and Washoe County NSRS Bond fund usage for P25 Radio System.
 - Slide 3
- Based on current available funds, what portion of the NSRS project can we complete?
 - Site prioritization – Site Removal
 - Slide 4-5
- Compare original Radio System site construction costs (2018 Contract) vs most current quotes or estimates.
 - Slide 6
 - Walk-through original cost sheet
- NSRS Project Milestones and Change Orders
 - Slides 7-9

Infrastructure Account – Expenses, Transfers



Fiscal Year	Fund Source				Total Payments	Notes
	Washoe County CIP - PW920498	WCRCs Infrastructure - C210300	Partner Agency Pre-Payments - C210330	Bond (NSRS Debt 2020) - PW920408		
FY19	619,191.74				<u>619,191.74</u>	Milestone Payment 1; Project Management
FY20	417,989.99	750,000.00			<u>1,167,989.99</u>	Milestone Payment 2; Project Management; Change Order 1; Bond Consultant Fees; \$134,421 Reimbursement from 911 Fund for Consoles
FY21	212,818.87		800,000.00	671,758.18	<u>1,684,577.05</u>	NSC Completion Milestone (3); Project Management; Peavine Grounding; Civils Change Order #1; Microwave Change Order; Completion of field path surveys
FY22				4,462,278.86	<u>4,462,278.86</u>	Completion of DDR R2 Milestone; Microwave payment 2-4; P25 Hardware Factory Staging; P25 Hardware shipment and delivery milestone; power connection fee for Cold Springs
FY23				2,581,038.76	<u>2,581,038.76</u>	Civils Change Order 12; Microwave payment 5-7; Ophir Batteries; LCP-Tracker; CMAR RFP Ad
FY24				118,150.67	<u>118,150.67</u>	Biltmore work with RX3
Totals	1,250,000.60	750,000.00	800,000.00	7,833,226.47	10,633,227.07	

Starting Balance			3,190,941.54	10,243,858.79	13,434,800.33	\$10,243,858.79 was the total amount funded through bond financing.
Remaining Funds			2,390,941.54	2,442,281.87	4,833,223.41	\$4,833,223 remains available for future milestone payments and construction.

What can we complete with the funds we have today?



		Future Payment	Prioritized Payment
Cold Springs Civils - Complete install	\$	88,134.04	\$ 88,134.04
Red Peak Civils - Completion	\$	938,429.85	\$ 938,429.85
Biltmore Civils	\$	629,227.00	\$ 629,227.00
Civil Construction Contingency	\$	500,000.00	
Microwave System Completion	\$	851,824.17	\$ 268,892.33
Seven Lakes Communication site	\$	1,880,574.12	
Ash Field Communication site	\$	2,407,348.01	
Smoky Quartz Communication site	\$	1,728,678.05	
P25 Milestone - Region 2 Acceptance	\$	1,194,007.86	\$ 1,194,007.86
P25 Milestone - Final System Acceptance	\$	537,303.54	\$ 537,303.54
TOTAL	\$	10,755,526.64	\$ 3,655,994.62

With current funds we can complete system commissioning and additional construction activities on the core of our system and have ~\$1.2M remaining to apply to construction of the site with the next highest priority.

<i>Remaining funds from previous slide</i>	4,833,223.41
Prioritized expenses	(3,655,994.62)
Remaining funds	1,177,228.79

Site Prioritization – Site Removal



1. Smokey Quartz –
 - a) Primary coverage areas: City of Sparks, Spanish Springs, Golden Eagle Park
 2. Seven Lakes
 - a) Primary coverage areas: Red Rock, Rancho Haven, Fish Springs
 3. Ash Field
 - a) Primary coverage areas: Vya, northern Washoe County where there is currently no radio coverage.
- Removing a site from the NSRS requires review by all three NSRS member agencies. Through a “Request for change” process, NSRS members would determine technical and operational impacts of site removal.
 - Formal site removal requires each agency to execute a Change Order to their respective contract with L3Harris, accepting the change in radio coverage for the statewide system.

Radio Site Cost Comparison: Initial Contract vs. New Estimate



Site	Initial Contract	Updated Cost Estimates	Difference between Updated Costs & Initial Contract
Smokey Quartz	554,118.71	1,840,150.26	1,286,031.55
Biltmore		629,227.00	629,227.00
Cold Springs	554,118.71	764,783.54	210,664.83
Seven Lakes	554,118.71	2,265,635.70	1,711,516.99
Red Peak	554,118.71	1,230,928.00	676,809.29
Ash Fields	554,118.71	2,805,475.84	2,251,357.13
Total	2,770,593.55	9,536,200.34	6,765,606.79

Washoe County NSRS Milestone Payments



1. System Purchase Agreement Signing: **\$533,981.25 (September 2018)**
2. Commence Network Switching Center (NSC) Install: **\$796,005.24 (November 2019)**
3. NSC Install Complete: **\$1,194,007.86 (January 2020)**
4. Approval of Detailed Design Review: **\$918,728.31 (November 2021)**
5. Region 2 Factory Staging: **\$1,194,007.86 (February 2022)**
6. Region 2 shipment of Radio System Equipment: **\$1,592,010.48 (February 2022)**
7. Region 2 Radio System Installation complete & accepted: \$1,194,007.86
8. Final System Acceptance: \$537,303.54

Washoe County NSRS Change Orders



1. Modify Milestone Payments Schedule – No Cost
2. Initiate Site Surveys
 - a) Notice to proceed on site surveys - \$322,048
3. Site Remediation, notice to proceed - \$45,304.43
4. Console feature update and invoicing - \$18,204
5. Extend Console pricing to all console purchases through Harris Contract – No Cost
6. Console Router model change – No cost
7. Greenfield site civil construction
 - a) Notice to proceed \$3,819,300.02 for greenfield site construction
 - b) Cost is within contract pricing
8. Microwave System
 - a) Notice to proceed with \$2,331,727.35 for new microwave system installation
 - b) \$95,081 greater than contract pricing for Microwave System

Washoe County NSRS Change Orders (cont'd)



9. Smart Breaker Design – Notice to proceed \$6,910
10. Fox Mtn. Solar – Notice to Proceed \$385,660.70 (Funded through WCRCS Infrastructure)
11. Remove 49 Mtn from contract – Notice to proceed on additional \$220,908.82 for civil construction.
12. Reconcile civil construction cost changes – No cost, but resulted in payment of \$2,256,246.53
13. SOW language change under “Software FX with SUMS and Tait Software Maintenance Installation” – No Cost
14. Region 1 and Region 2 Delayed Sites, Milestone Pro-rate – No Cost
15. Renumber Milestone numbers; Allow Quinn Korbolic to execute documents while Melissa Lawney is on medical leave – No Cost

Considering all Change Orders, the total Contract Amount has increased by \$49,305.60 to \$26,586,816.28

Next Steps



- Today:
 - JOC:
 - Provide direction on site prioritization
 - Additional requests for information
- Before April JOC meeting:
 - Washoe County:
 - Continue to pursue alternative funding for radio sites
 - Work with WCRCS member agencies on P25 Radio System Agreement Addendum
 - Provide updates to WCRCS members on Addendum changes or requests for information.
- April P25 JOC Meeting
 - Review/Recommend P25 Radio System Agreement Addendum