



800 MHz JOC Meeting

October 19, 2023



System Status Update

Agenda Item 5



System Status Update: Maintenance

- DC battery banks & rectifier testing
 - Newmar Commander II battery/rectifier installed at Marble Bluff, Cold Springs & Mt Rose
 - Battery Replacement at NOC
 - Training conducted 21 July 2023 on Alpha cordex Controller
 - Training scheduled for NewMar Commander II Controller and Benning Rectifiers
- HVAC inspection & repair
 - Peavine needs new HVAC, unable to repair
 - Virginia Peak AC continually failing- also needs to be replaced.
- Generator inspections and repair
 - Slide Generator installation completed August 28th, 2023
 - Batteries replaced on Fox Generator September 7th, 2023
 - Generator Replacement needed at Fox Mountain





System Status Update: Maintenance

- Tower inspections & Remote Alarms
 - TSM Support purchased and awaiting training for all new Nokia Microwave System to build within TSM application.
 - Secondary GPS Antenna needs to be replaced at NOC
 - GPS Timing solution put in place for Peavine Site
 - Teglar Dish replacements ordered for Peavine & Watertank
- Radio maintenance & alignments
 - Tahoe Simulcast alignment conducted (Biltmore, Snowflake)
 - Power Amplifiers replaced at Fox.
 - Marble Bluff Radio Alignment
 - Slide Mountain Radio Alignment
 - Fox Mountain Radio Alignment
 - Chimney Radio Alignments
- Security cameras maintenance and installation
 - Cameras purchased for Cold Springs, Ophir, Marble Bluff





System Status Update- Disruptions & Repairs

METRO SC	SLIDE MT	TAH SC	VA PEAK	CHMNY	MARBLE	POITO	FOX MTN	MT ROSE
CC	CC	CC	CC	FAIL	CC	CC	OFF	12596 - 00273
12577 - 00290	03607 - 01901	OFF	03199 - 01901	15234 - 00289	13790 - 00278	13112 - 00273	12596 - 00273	12254 - 00273
12576 - 00289	04128 - 00753		02210 - 00753	CC	13790 - 00278	12596 - 00273	13081 - 00273	12254 - 00273
14914 - 00290	12577 - 00290		03607 - 01901	02210 - 00753	12598 - 00278	13112 - 00273	12596 - 00273	13081 - 00273
14010 - 00417	12576 - 00289		04128 - 00753	12829 - 00282	12596 - 00273	12596 - 00273	OFF	13081 - 00273
12704 - 0327	03199 - 01901	04128 - 00753	03199 - 01901	03607 - 01901	OFF	OFF	OFF	OFF
15234 - 00289	14914 - 00290	OFF	03607 - 01901	04128 - 00753	OFF	OFF	OFF	OFF
	14010 - 00417	OFF	OFF	12576 - 00289	OFF	OFF	OFF	OFF
FAIL	15234 - 00289	OFF	OFF	OFF	OFF	OFF	OFF	OFF
12571 - 00327	12576 - 00289	OFF	OFF	OFF	OFF	OFF	OFF	OFF
13993 - 01837	02210 - 00753	OFF	OFF	OFF	OFF	OFF	OFF	OFF
04128 - 00753	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
03607 - 01901	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
12829 - 00282	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
DownLink	DownLink	DownLink	DownLink	DownLink	DownLink	DownLink	DownLink	DownLink
DownLink	DownLink	DownLink	DownLink	DownLink	DownLink	DownLink	DownLink	DownLink
650608	317164	154421	101832	149486	63304	43761	40746	5649

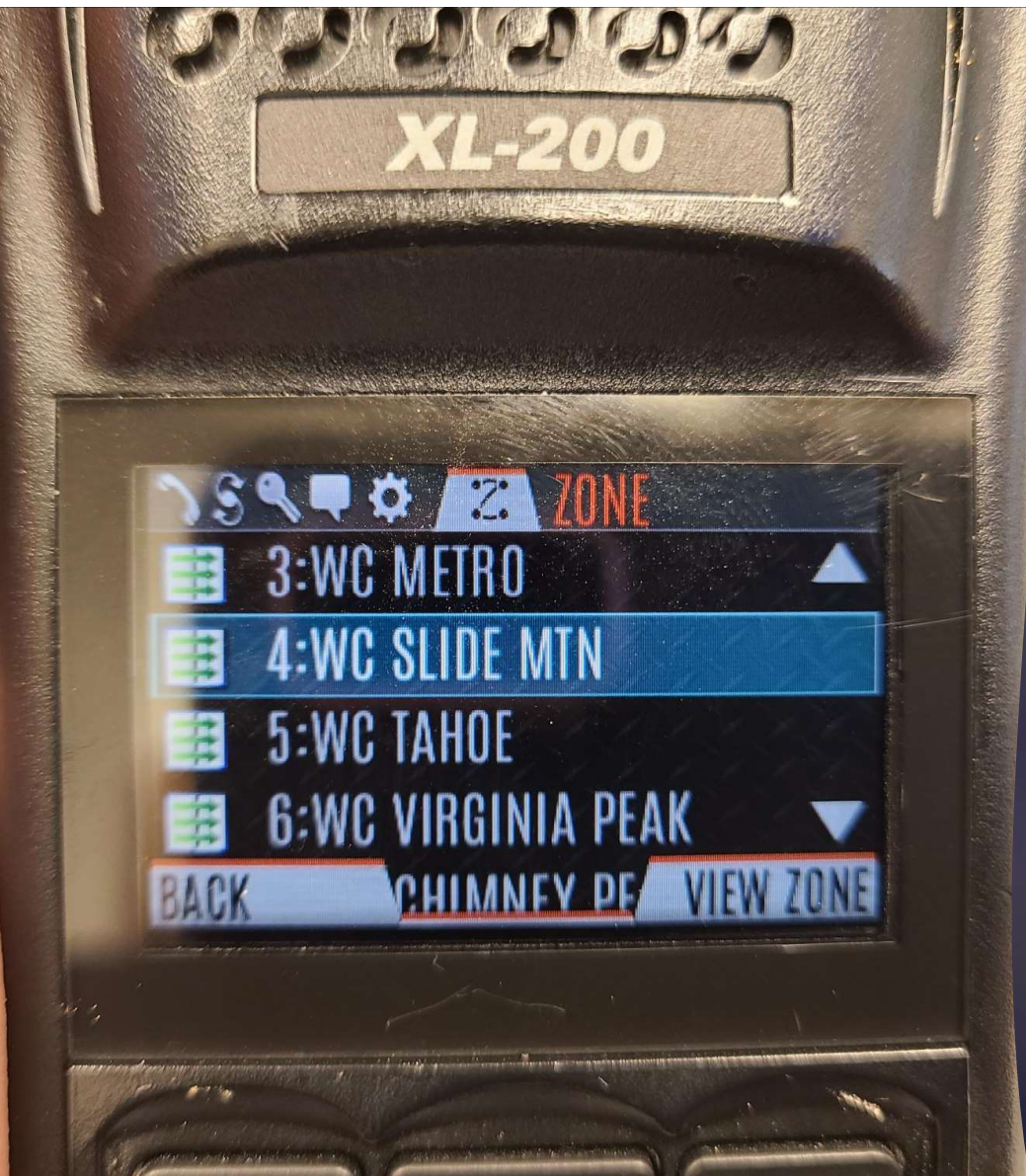
- **Unplanned Outages**

- **System & Site:**

- 9/18/2023- Tahoe Simulcast received 89 GSC rx errors
 - 7/21/2023- Peavine Mountain lost timing, GPS antenna replaced, and CHDS1 Card and the Control Switch Module were replaced on the 7705. This negatively affected Metro Simulcast on Friday and into the weekend.
 - **Reminder- Pyramid Lake still has degraded service until the EDAC's antenna are moved to the new tower. Still waiting on power to the site from NVE.

- **Planned Outages**

- 8/1/2023- Sparks to Peavine re-testing of Microwave
 - 7/26/2023- Microwave Outage: Marble to Virginia
 - 7/12/2026- Microwave Outage: Sparks PD to Peavine
 - 7/5/2023- Microwave Outage: Virginia Peak to Peavine



System Status Update: LID and Radio Counts

- Remaining LIDS: 29
 - Ready to Issue
 - Sparks Fire (2)
 - Pyramid Lake Police (2)
 - WCSD (2)
 - UNR (2)
 - Pending requests
 - Storey County (5)- sponsored agency requesting to join P25*
 - WCSD (2)- Auditing existing LIDS
 - Pyramid Lake Police requesting 6 LIDS
 - REMSA requesting LIDS
 - REQUEST for ALL agencies to free up LIDS**
Please contact us for a list of active LIDS for your agency to conduct your own internal Audit.
- Radio Counts: (92.4%)
 - Washoe County has purchased 4,712 Radios out of their 5,097 contractual commitment.



WCRCs Budget and Fiscal year 2024-2025 Budget Review

Agenda Item 6



Maintenance Wishlist

- Proposing a 16% increase to the overall budget
 - Continue re-keying all sites (added security measures)
 - Wall remediation at Virginia Peak (calcium build up is degrading the grout between the brick.)
 - Winter damage assessment (Various sites experienced damage last winter, we expect this winter to be the same)
 - Incline Site remediation
 - Replace generator
 - Replace two more HVAC units
 - Replace the TSM (alarming system- situational awareness)



WCRCs replacement of Virginia Peak & Peavine Peak HVAC units

Agenda Item 7



Virginia Peak HVAC Unit Replacement

- Virginia Peak
 - Option A: Cost for cooling only:: \$22,908.00
 - Option B: Cost for cooling with Heat pump::\$24,699.00
 - 3-Ton Units- Cooling only- HVAC technicians continually being called, and unable to fully repair. Both RHP and Roper did work on these units, and recommended heating pump to be added for system efficiency.
 - Option A replacing both units would cost \$45,816
 - Option B replacing both units would cost \$49,398
 - WCRCs recommends replacing both units at Virginia Peak with Option B



Peavine Peak HVAC Unit Replacement

- Peavine Peak

- Unit destroyed by heavy snow pack this year- Found during trouble calls in June, HVAC Technician unable to repair current 5 ton unit.
- Need to upgrade Unit to 6 ton unit due to installation of P25 equipment adding heat to room.
- Option A: Cooling only:: \$25,492.00
- Option B: Cooling with Heat pump:: \$27,046.00

- Option A replacing both units would cost \$50,984
- Option B replacing both units would cost \$54,092

- Recommend replacing both units at Peavine Peak with Option B.





Recommendation for Both

- Both Virginia Peak and Peavine Peak sustained damage during the 2022-2023 Winter season, requiring many repairs.
- Both require upgrade due to new heat loading, and power consumptions of running both P25 and EDACs radio systems.
- Costs include installation and upgrades required for bigger units.

- Option A: Total cost for both Virginia Peak and Peavine Peak would be a cost of \$96,800

- Option B: Total cost for both Virginia Peak and Peavine Peak would be a cost of \$103,490



WCRC's replacement of Fox Mountain Generator

Agenda Item 8



Fox Generator Replacement

- Control Panel for Fox generator has died- Similar to Slide Mountain.
- Teams has replaced batteries for the generator multiple time this year, and had to perform maintenance on the unit multiple time.
- Upgrade Fox Generator from 15kW generator to a 30kW generator
- Equipment Only Costs : \$27,220
 - Doesn't include the installation costs.
 - Current lead time 40 Wks





Technical Specification

- BLUE STAR POWER SYSTEMS
MODEL: PD30-01IT4
 - Generator: 30 kWe, PF 0.8
 - Voltage: 120/240 ACV, 1-Phase, 12 Wire, 60HZ
 - Fuel Type: Diesel
- Control Panel: Blue Star DCP7310
 - Blue Star DCP7310 Microprocessor Based Gen-Set Controller
- Block Heater
 - Standard 1000W,
 - 120 Volt, single phase
- Battery Charger: 12 Volt, 6 Amp
 - Mounted and Wired
- Fuel Tank: 140 Gallon / 48 Hour Sub-base Diesel Fuel Tank
- Asco Series 300 Automatic Transfer Switch





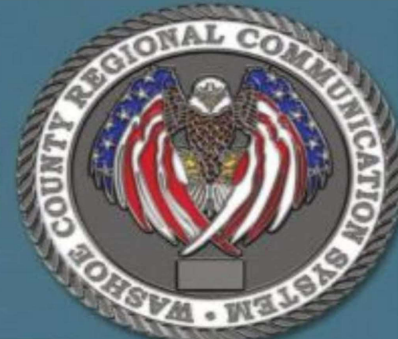
800MHz Users Committee Member/Staff Announcements

Agenda Item 11



Announcements

- Melissa Lawney will be going out on FMLA leave effective December 12th, 2023 for approximately 2-3 months.
 - Regional Services Contacts
 - Quinn Korbolic-(775) 328-2348
 - WCRCS Contacts: (775) 858-5961
WCRCS@washoecounty.gov
 - John Byerly: (775) 741-5282
 - John Rees: (775) 433-3509
 - Tyler Gerber-Winn: (775) 444-2467
 - James Davis:(775) 530-2036
 - Radio Shop Contacts:
radioshopdl@washoecounty.gov
 - Don Thornberry: (775) 858-5953
 - Daniel Bale: (775) 858- 5962
 - Daniel Foster: (775) 858- 5962





Questions?

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