



800 MHz JOC Meeting

April 15, 2022



LID Status Update & Radio Counts

Agenda item #4



LID Status

- Remaining LIDS: 35
 - UNR
 - Issued 2 LIDS to DRI
 - Future Members
 - US Marshals
 - request based on funding
 - National Guard
 - Looking for more information
 - Department of Homeland Security DHS
 - Looking for More information
 - Issuance of LIDs will be looked at case by case and prioritized accordingly. Please allow for a few weeks to get back to all requests.



Radio Counts

- Reminder our L3Harris Sales Representative is Claire Pender.



- Thank you all for your purchases!
- 2,581 radios ordered out of 5097 contractual commitment of the P25 Radios
 - We have reached 50% of our contractual obligation
 - Reminder – Harris to be onsite for installation Oct 2022- Dec 2023
 - EVERY Radio in our system requires the One-Touch “ Make ready” for new system
 - Mobile Installations (Don’t forget your warranty is on hold until the device goes into service) .
 - Please have radios purchased prior to these events to be ready for the System cut-over.



System Status Update

Agenda Item #5



System Status Update

- Outages

- System & Site:

- 3/1/2022- Data Corruption caused queuing issues on Marble Bluff
 - 3/4/2022- Washoe County TAHOE Simulcast Outage. Failing IP Tube. Equipment replaced on 3/10/2022 resulting in another unavoidable downtime.
 - 3/8/2022- open mic issues held up Sparks Main Channel, possibly from data corruption on the system.
 - 3/10/2022- All Consoles heard static on all talk channels for 5 minutes. Troubleshooting caused the RAR (router) to reboot twice in less than a Minute and we lost time synchronization to the GVIU cards. Cards reset- issue resolved.

- Weather:

- Fox Mountain to Virginia Peak inversion affecting microwaves, and extreme weather caused damage to microwave dishes causing alignment issues.
 - Tahoe Region also affected by poor weather conditions. We believe some of the data corruption is coming from communication links going up and down. Hoping the new IP tube resolves some of these issues.

- Updates

- SUMS- Software updates conducted monthly

METRO SC	SLIDE MT	TAH SC	VA PEAK	CHMNY	MARBLE	POITO	FOX MTN	MT ROSE
CC	01145 - 00716	OFF	CC	16383 - 00387	16383 - 00387	CC	FAIL	16383 - 00387
14375 - 00306	CC	OFF	16383 - 00387	12577 - 00289	CC	16383 - 00387	16383 - 00387	CC
OFF	14569 - 00289	OFF	16383 - 00387	16383 - 00387	16383 - 00387	16383 - 00387	16383 - 00387	16383 - 00387
00000 - 00000	16383 - 00387	OFF	16383 - 00387	14757 - 00289	16383 - 00387	16383 - 00387	16383 - 00387	16383 - 00387
14569 - 00289	14757 - 00289	OFF	16383 - 00387	16383 - 00387	16383 - 00387	16383 - 00387	16383 - 00387	16383 - 00387
	16383 - 00387	OFF	16383 - 00387	16383 - 00387	16383 - 00387	16383 - 00387	OFF	16383 - 00387
03517 - 00353	12577 - 00289	OFF	16383 - 00387	CC	OFF	OFF	OFF	OFF
	16383 - 00387	OFF	16383 - 00387	14757 - 00289	OFF	OFF	OFF	OFF
	14757 - 00289	OFF	OFF	OFF	OFF	OFF	OFF	OFF
03517 - 00353	16383 - 00387	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	16383 - 00387	OFF	OFF	OFF	OFF	OFF	OFF	OFF
14569 - 00289	16383 - 00387	OFF	OFF	OFF	OFF	OFF	OFF	OFF
14757 - 00289	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
14757 - 00289	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
DownLink	DownLink	OFF	DownLink	DownLink	DownLink	DownLink	DownLink	DownLink
DownLink	DownLink	OFF	DownLink	DownLink	DownLink	DownLink	DownLink	DownLink
4157505	2018866	121615	560101					



Marble Bluff Communications Tower Replacement Update

Agenda Item #6



Marble Bluff Original Scope

- Replace existing Marble Bluff Tower
 - 230% overloaded, and Washoe County needs to add items to tower to better support Public Safety Initiatives
 - Towers this overloaded pose a safety risk to general public and anything within the surrounding area. Big Risk include:
 - Tower Collapse
 - Wind to carry the tower off the mountain
 - Out of Compliance with ANSI/TIA-222-H Safety Requirements
 - Tribe needs tower space for Internet circuits, & building fiber entrance
- Replace existing shelter
 - Shelter contains asbestos within brick walls and roof- Asbestos remediation expensive.
 - Need HVAC needed- which requires cutting into brick
 - Need Roof repairs
 - Need Generator Replacement
 - Cost of new shelter with these fixtures included is cheaper than the maintenance of replace of all the components combined.



Marble Bluff Update

- Hired a CMAR- Plenium Builders late 2021
- Engineering Design completed March 2022
 - Determine on top of original requirement- New NVE Transformer needs to be upgraded
 - New generator needed to support both buildings
 - New Battery Bank also needed
- Total Engineering and Design Costs \$920K with added scope

Estimate Totals

Description	Amount	Totals	Rate
Labor	65,280		
Material	7,080		
Subcontract	700,834		
Equipment	6,400		
Other			
	<u>779,594</u>	779,594	
General Liability	7,796		1.000 %
Builders Risk	<u>9,201</u>		1.000 %
	16,997	796,591	
CMAR Contingency	39,830		5.000 %
Fee	83,642		10.000 %
Total		920,063	



Cost Break Down

Description	Takeoff Quantity	Labor Hours	Labor Productivity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Price	
GENERAL CONDITIONS									
PROJECT MANAGEMENT									
Project Administrator	4.00 MO	60	15.000 HR / MO	50.00 /HR	3,000	-	-	- /wk	
FIELD PERSONNEL									
Project Superintendent	4.00 MO	692	173.000 HR / MO	90.00 /HR	62,280	-	-	-	
CONSTRUCTION DOCUMENTS									
Blue Printing/Shop Drawings	2.00 SET			-	-	100.00 /SET	200	-	
CONSTRUCTION FACILITIES									
Temporary Wash Stations	4.00 MO	693		/MO		150.00 /MO	600	-	
Chemical Toilet (1/10/mo)	4.00 MO			-	-	320.00 /MO	1,280	-	
Procore	1.00 EA			-	-	5,000.00 /EA	5,000	-	
SITework									
SITE ELECTRIC STRUCTURES									
Communication on Wheels 100'	1.00 LS			-	-	-	-	30,334.00 /LS	
Decommission Existing Tower	1.00 LS			-	-	-	-	67,370.00 /LS	
Ground Ring & Grounding	1.00 LS			-	-	-	-	12,490.00 /LS	
300Amp service & conduit building to building	1.00 LS			-	-	-	-	126,141.00 /LS	
Remove & Replace Foundation	1.00 LS			-	-	-	-	121,128.00 /LS	
F&I 130' 4-Legged Tower	1.00 LS			-	-	-	-	122,136.00 /LS	
Foundation for 10'x20' building	1.00 LS			-	-	-	-	20,532.00 /LS	
F&I 10'x20' precast building	1.00 LS			-	-	-	-	75,282.00 /LS	
F&I Alpha CXPS-E3 power plant	1.00 LS			-	-	-	-	71,667.00 /LS	
F&I Ice Bridge	1.00 LS			-	-	-	-	16,982.00 /LS	
Move equipment from COW to new tower	1.00 LS			-	-	-	-	23,643.00 /LS	
Repair existing fence	1.00 LS			-	-	-	-	9,529.00 /LS	
Special Inspections	1.00 LS			-	-	-	-	3,600.00 /LS	



WCRCs Communication System Routers and Switch Replacement

Agenda Item #7



WCRCS Router & Switch Replacement

- WCRCS Network routers are 10+ years old, and need to be updated to prepare for the new system. These support our operational network for the WCRCS, which includes the cameras, environmental system alarms, and management and maintenance network used by the WCRCS team. <\$110K>
- In order to upgrade the Dispatch consoles, the old routers and switches need to be replaced. These routers support the system side but were not included in the original P25 system, as we have been adding more dispatch console over time. As we grow, we need to expand the network. <\$40K>



WCRCs Replacement of Slide Generator

Agenda Item #8



Slide Generator Replacement

- After a series of power outages in early January, the Slide generator panel stopped working. The teams had to refuel and keep the generator operating every three days in January while NVE troubleshoot the powerline issues in the Tahoe Region.
- After restoral of the power the Generator began failing regularly. Due to Long lead times, WCRCs team has ordered a generator to replace the one at Slide. These dollars will come out of this year's budget.
- We informally brought this issue up in the last JOC meeting, although it was not officially voted on, we are bringing this item up as an expenditure for formal review and approval.
- **WCRCs requests Approval to spend \$24,920 for the replacement of the Generator on Slide Mountain.**



Washoe County Radio Shop Price Discussion

Agenda Item #9



Radio Shop Price Changes

- Washoe County provides a Radio Shop Services for all WCRCS Agencies to use out of convenience to the users but due to increasing prices, and resource issues, we may not be able to keep these services available for all users.
- In order to continue to provide services it was decided that the costs to overall radio shop need to be increased to cover the increasing costs of doing business.
 - Radio Shop hourly costs haven't changed in 15 years.
 - Current rates do not cover current salaries and all administrative costs for billing and documenting user equipment.



Radio Shop Price Changes

- Hourly rate is going from \$65 an hour to \$80 an hour, beginning July 1, 2022.
 - This includes labor costs that should sustain us for 5 years
 - This helps us to pay for an additional body in the radio shop to better assist in Radio Shop needs
- A New Fee is being introduced, the administrative fee of \$35.
 - Originally Sharon, Lona and Sara's cost for billing and for mailing items out was never included in any of the hourly costs. Each of them spend a quarter of their time helping to track purchases order parts, inventory gear, etc to assist the Washoe County Radio shop, This administrative fee also includes the costs of upgrading Equipment to the P25 protocol.



Radio Shop Prices Changes

- Future Pricing for Projects will also come available start in Budget Year 2023. (Expect project pricing in next JOC meeting).
- Radio Shop is going through the budget process to add another position. After a third person is hired, we will be able to conduct on site programming, and troubleshoot issues* (Assuming this year's budget gets approved by Washoe County)



DHS Shields Up Brief

Agenda Item #10




DHS Shields Up

- In the wake of Russia's unprovoked attack on Ukraine and rising geopolitical tensions, which have been accompanied by cyber-attacks on Ukrainian government and critical infrastructure organizations, there may be consequences on our own nation's infrastructure. This has been a potential risk we have been warning about in recent months and would like to remind everyone to remain vigilant.
- CISA is providing the following services to both Private and Public Entities:
 - **Shields Up** – CISA launched a new [Shields Up webpage](#) that provides actionable information on urgent steps to harden systems given the heightened threat environment.
 - **Pro Bono Services** – CISA recently launched a [new catalog of free cybersecurity services](#) from CISA, the open-source community, and our private sector partners in the Joint Cyber Defense Collaborative. The catalog is designed to help under-resourced organizations improve their security posture.
 - **Mis-, dis-, Malinformation (MDM)** – CISA released a *CISA Insights* titled, [Preparing for and Mitigating Foreign Influence Operations Targeting Critical Infrastructure](#), which provides critical infrastructure owners and operators with guidance on how to identify and mitigate the risks of influence operations using MDM narratives from steering public opinion and impacting National Critical Functions and critical infrastructure.



DHS Shields UP

- We also encourage organizations to remain vigilant and lower the threshold for reporting. If you believe that your jurisdiction, or a critical infrastructure partner, has experienced a cyber intrusion, please report incidents and anomalous activity to CISA (Central@cisa.gov; 1-888-282-0870) and/or the FBI's 24/7 CyWatch at (855) 292-3937 or CyWatch@fbi.gov.



The screenshot shows the CISA Shields UP website. At the top is the CISA logo and the text "CYBERSECURITY & INFRASTRUCTURE SECURITY AGENCY". To the right is a search bar and a link to "cisa.gov/uscert". Below this is a navigation bar with icons and labels for "CYBERSECURITY", "INFRASTRUCTURE SECURITY", "EMERGENCY COMMUNICATIONS", "NATIONAL RISK MANAGEMENT", "ABOUT CISA", and "MEDIA". The main heading is "SHIELDS UP". Below this is a large red banner with the text "SHIELDS UP" and a blue shield icon with a white upward arrow. To the right of the banner is a small CISA logo. Below the banner is a paragraph of text: "While there are no specific or credible cyber threats to the U.S. homeland at this time, Russia's unprovoked attack on Ukraine, which has involved cyber-attacks on Ukrainian government and critical infrastructure organizations, may impact organizations both within and beyond the region. Every organization—large and small—must be prepared to respond to disruptive cyber activity. As the nation's cyber defense agency, CISA stands ready to help organizations prepare for, respond to, and mitigate the impact of cyber-attacks. When cyber incidents are reported quickly, we can use this information to render assistance and as warning to prevent other organizations and entities from falling victim to a similar attack." Below this is a dark blue footer with white text. On the left, it says "All organizations should report incidents and/or anomalous activity to". In the center is a red shield icon with a white upward arrow. To the right of the arrow, it says "CISA via 24/7 CISA Central at central@cisa.dhs.gov or (888) 282-0870 and/or the". On the far right, it says "FBI via your local FBI field office or the FBI's 24/7 CyWatch (855) 292-3937 CyWatch@fbi.gov".

SHIELDS UP

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DHS Shields UP

Free Services and Tools

After making progress on the measures above, organizations can use the free services and tools listed below to mature their cybersecurity risk management. These resources are categorized according to the four goals outlined in [CISA Insights: Implement Cybersecurity Measures Now to Protect Against Critical Threats](#):

1. Reducing the likelihood of a damaging cyber incident;
2. Detecting malicious activity quickly;
3. Responding effectively to confirmed incidents; and
4. Maximizing resilience.

[Expand All Sections](#)

Reducing the Likelihood of a Damaging Cyber Incident



Take Steps to Quickly Detect a Potential Intrusion



Ensure That The Organization is Prepared to Respond if an Intrusion Occurs



Maximize the Organization's Resilience to a Destructive Cyber Incident





DHS Shields UP

WHAT IS MDM?

CISA defines mis-, dis-, and malinformation (MDM) as "information activities." This type of content is referred to as either domestic or foreign influence depending on where it originates.

- **Misinformation** is false, but not created or shared with the intention of causing harm.
- **Disinformation** is deliberately created to mislead, harm, or manipulate a person, social group, organization, or country.
- **Malinformation** is based on fact, but used out of context to mislead, harm, or manipulate.

Combined with a lack of public understanding of election processes, the changing landscape of technology and communications creates new risk and evolving vectors for the spread of MDM. This includes inaccurate information about the election process, unsubstantiated rumors, and incomplete or false reporting of results.

RESPONDING TO MDM

In today's media and information environment, election officials must play a proactive role in responding to MDM. While each MDM narrative will differ, leveraging the **TRUST** model for MDM response can help reduce risk and protect voters.



It is important to acknowledge the opportunities and limitations of government-led MDM intervention—particularly where distrust of government may be fueling the narrative. Focus responses where your team has evidence, expertise, or authority to counter the MDM. Also, recruit trusted community partners to amplify your messaging.

- Election Season is upon us. This information helps organization involved in the Election process.



Questions?

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