

# 800 MHz Users Meeting

December 9<sup>th</sup>, 2021



# LID Status Update



### LID Status

- Remaining LIDS: 28\* (After Requests granted)
  - Truckee Meadow Fire Protection District (TMFPD)
    - issued 3 LIDs (Consoles)
  - Reno Sparks Indian Colony (RSIC)
    - issued 5 LIDS
    - Requesting 7 Additional LIDS\*\*
  - Sparks Dispatch
    - Issued 4 LIDS
  - Washoe County Sheriffs Dispatch
    - Issued 2 LIDS
  - City of Reno
    - Requesting 7 LIDS\*\*
  - UNR
    - Requesting 6 LIDS for DRI  $\leftarrow$  Agency to be sponsored\*\*
      - 2 Initially, 4 in the future
- Issuance of LIDs will be looked at <u>case by case</u> and prioritized accordingly. Please allow for a few weeks to get back to all requests.



# System Status Update



### System Status Update

- Site issues
  - Slide channel 5 & 11
  - Fox Channel 4
- Outages
  - Fox Solar Panel Commissioning December 1<sup>st</sup> 3<sup>rd</sup>
- Updates
  - Sums updates conducted monthly

Final Presentation 12/9/21



## WCRCS Infrastructure Maintenance and Replacement Plan 5 Year Plan



#### Maintenance completed in calemeder year 2021

- DC battery banks & rectifier testing
  - Virginia Peak Replaced
  - Mt Rose, Slide and Snowflake purchases made, and planned for installation for next calendar year
- HVAC inspection & repair
  - Snowflake
  - All Sites had filter replacement due to wild fires this year
- Dehydrator/Waveguide pressure testing
  - Slide transmission line replaced
- Generator inspections and repair
  - All sites completed Red Peak & Marble Bluff required some rebuild, and getting parts delayed installation.



#### Maintenance completed in calemeters year 2021

- Tower inspections
  - Marble Bluff 230% Overloaded
  - Mount Rose 84.5% Loaded
  - Poito 24% loaded
  - Ophir 94.5% loaded
- Radio maintenance & alignments
  - All sites spot checked. Alignments & Adjustments made on Slide, Virginia, Red Peak, & Fox Mountain
- Security cameras maintenance and installation
  - Marble Bluff, Peavine, Virginia Peak, Snowflake, Red Peak
- Remote alarms verification and tests
  - Tested at all sites, looking for new solutions at Red Peak and Slide. Eventually entire remote alarming will be replaced with new P25 Radio system.

#### Revised Maintenance Budget

| Accoun                                 |                 |                           | WCRCS Maintenance   |                      |
|--|-----------------|---------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| Maintenance Type                       | <u>Accounts</u> | Acct. Name                | 2022-2023           | 2023-2024           | 2024-2025           | 2025-2026           | 2026-2027           |                      |
| Battery Replacement                    | 781004          | Equipment Capital         | \$130,000.00        |                     |                     |                     | \$120,000.00        | on-going Maintenance |
| Generator Replacement                  | 710205          | Repair and Maintenance    | \$50,837.71         | \$62,000.00         | \$62,000.00         | \$62,000.00         | \$62,000.00         | New Maintenance      |
| Tower Replacement                      | 710100          | Professional Services     |                     |                     |                     | \$211,000.00        | \$145,000.00        |                      |
| Electrical Repairs                     | 711502          | Build Imp Non-Capital     | \$0.00              | \$0.00              | \$0.00              | \$0.00              | \$0.00              |                      |
| Safety Expenses (ie-Carbon Monitor)    | 710571          | Safety Expense            | \$800.00            | \$3,200.00          | \$800.00            | \$3,200.00          | \$800.00            |                      |
| Redundancy Project                     | 710100          | Equipment Capital         |                     |                     | \$250,000.00        | \$250,000.00        |                     |                      |
| DC to DC Converters                    | 711504          | Equipment Non-Capital     | \$0.00              |                     |                     |                     |                     |                      |
| Grounding                              | 711504          | Equipment Non-Capital     | \$20,000.00         | \$1,000.00          | \$1,000.00          | \$1,000.00          | \$1,000.00          |                      |
| Network (ie- routers, switches, Fiber) | 711504          | Equipment Non-Capital     | \$40,000.00         | \$40,000.00         | \$40,000.00         | \$40,000.00         | \$40,000.00         |                      |
| Security                               | 711504          | Equipment Non-Capital     | \$24,075.00         | \$21,000.00         | \$20,000.00         | \$20,000.00         | \$20,000.00         |                      |
| Air conditioner- HVAC                  | 710205          | Repair and Maintenance    | \$10,000.00         | \$10,000.00         | \$30,000.00         | \$30,000.00         | \$30,000.00         |                      |
| Antenna Waveguide System               | 711504          | Equipment Non-Capital     | \$10,000.00         | \$10,000.00         | \$10,000.00         | \$10,000.00         | \$10,000.00         |                      |
| Building Maintenance                   | 710205          | Repair and Maintenance    | \$6,000.00          | \$6,000.00          | \$60,000.00         | \$6,000.00          | \$6,000.00          |                      |
| Breaker replacements                   | 711504          | Equipment Non-Capital     | \$500.00            | \$500.00            | \$500.00            | \$500.00            | \$500.00            |                      |
| Roof repair/ patching                  | 710205          | Repair and Maintenance    | \$10,000.00         | \$10,000.00         | \$10,000.00         | \$10,000.00         | \$10,000.00         |                      |
| Painting/ Building maintenance         | 710205          | Repair and Maintenance    | \$4,000.00          | \$4,000.00          | \$4,000.00          | \$4,000.00          | \$4,000.00          |                      |
| Flooring                               | 710205          | Repair and Maintenance    | \$1,500.00          | \$1,500.00          | \$1,500.00          | \$1,500.00          | \$1,500.00          |                      |
| Door Maintenance or replacement        | 710205          | Equipment Service Replace |                     |                     | \$6,000.00          | \$6,000.00          | \$6,000.00          |                      |
| Radio Alignments                       | 710205          | Repair and Maintenance    | \$15,000.00         | \$15,000.00         | \$15,000.00         | \$15,000.00         | \$15,000.00         |                      |
|  |                 |                           |                     |                     |                     |                     |                     |                      |
| Existing Maintenance                   |                 |                           | \$196,375.00        | \$65,700.00         | \$136,300.00        | \$84,700.00         | \$202,300.00        |                      |
| New Maintenance                        |                 |                           | \$126,337.71        | \$118,500.00        | \$374,500.00        | \$585,500.00        | \$269,500.00        |                      |
|  |                 |                           |                     |                     |                     |                     |                     |                      |
| Total Maintenance Cost                 |                 |                           | <u>\$322,712.71</u> | <u>\$184,200.00</u> | <u>\$510,800.00</u> | <u>\$670,200.00</u> | <u>\$471,800.00</u> |                      |

|                        | Accounts        | WCRCS Maintenance | WCRCS Maintenance | WCRCS Maintenance | WCRCS Maintenance         WCRCS Maintenance         Past 5 Year |                   | Past 5 Year   |                 |
|------------------------|-----------------|-------------------|-------------------|-------------------|---|-------------------|---------------|-----------------|
| Acct. Name             | <u>Accounts</u> | <u>2022-2023</u>  | 2023-2024         | 2024-2025         | <u> 2025-2026</u>   | <u> 2026-2027</u> | average spend | Budgeted        |
| Equipment Capital      | 781004          | \$130,000.00      | \$0.00            | \$0.00            | \$0.00  | \$120,000.00      | \$ 234,115.8  | 9 \$ 60,000.00  |
| Professional Services  | 710100          | \$0.00            | \$0.00            | \$250,000.00      | \$461,000.00  | \$145,000.00      | \$ 43,549.7   | 2 \$ 23,655.58  |
| Safety Expense         | 710571          | \$800.00          | \$3,200.00        | \$800.00          | \$3,200.00  | \$800.00          | \$ 480.8      | 3 \$ 500.00     |
| Equipment Non-Capital  | 711504          | \$94,575.00       | \$72,500.00       | \$71,500.00       | \$71,500.00   | \$71,500.00       | \$ 125,110.1  | 3 \$ 242,138.20 |
| Repair and Maintenance | 710205          | \$97,337.71       | \$108,500.00      | \$188,500.00      | \$134,500.00  | \$134,500.00      | \$ 41,887.5   | 8 \$ 60,000.00  |
|                        |                 |                   |                   |                   |   |                   | \$ 445,144.1  | 5 \$ 386,293.78 |



### 5 Year Plan

#### • Multi-Year

- Network Upgrades to Core Network \$250K (Split over Multiple years)
  - Backhaul that houses the Camera system, remote alarm monitoring and system alarms (Redundant network)
- Adding cameras and security to new sites (\$7K per site)
  - Yellow Peak, Smokey Quartz, Cold Spring, Red Peak, Red Rock, Biltmore/Water tank
- Adding alarming, remote monitoring to new sites (\$2K per site)
  - Contact control point updates and refresh of all alarms, addition of carbon monoxide monitors, door alarms, system alarmsreplacement of Network sentry.
- Upgrade existing generators to Blue Star Generators, and Upgrade all HVAC units to one standard (2 a year-As needed)
- 2022-2023
  - Additional Staff to support bringing 5 new sites on-line. (Proposing 1 Technician)
- 2024-2025\*
  - Add 1 more technician (Adding total of 2 positions over 2 years)
  - Add Microwave Link from Red Rock to Virginia Peak (\$250K- Professional Svc)
- 2025-2026\*
  - Upgrade the Monopole at Edison to a Proper tower (\$211K- Professional Svc)
  - Add Microwave Link from Smokey Quartz to Edison Microwave (\$250K)
- Not Budgeted Yet\*\*
  - Connect fiber in through Incline Village to Tahoe Basin Sites
  - Connect Fiber to Marble Bluff, when County gets fiber to Gerlach.

## 5 Year Plan- Add 2 bodies

WCRCS proposing to add 1 Technicians in 2022-2023 Budget year. WCRCS proposing to add 1 Technicians in 2023-2024 Budget

| year. |
|-------|
|-------|

| WCRCS    | Adding 1 position   | 2021-2022 |            |    | 2022-2023  |    | 2023-2024  | 2024-2025 |            | 2025-2026 |            |     | 2026-2027  |
|----------|---------------------|-----------|------------|----|------------|----|------------|-----------|------------|-----------|------------|-----|------------|
| Accounts |                     | Pla       | Plan F     |    | Plan       |    | n          | Plan      |            | Plan      |            | Pla | n          |
| 701110   | Base Salaries       | \$        | 395,503.25 | \$ | 480,126.59 | \$ | 574,352.46 | \$        | 585,839.51 | \$        | 597,556.30 | \$  | 609,507.43 |
| 701130   | Pooled Positions    | \$        | 14,728.35  | \$ | 14,728.35  | \$ | 15,022.92  | \$        | 15,323.38  | \$        | 15,629.84  | \$  | 15,942.44  |
| 701140   | Holiday Work        | \$        | 500.00     | \$ | -          | \$ | -          | \$        | -          | \$        | -          | \$  | -          |
| 701200   | Incentive longevity | \$        | 3,150.00   | \$ | 3,475.00   | \$ | 3,544.50   | \$        | 3,615.39   | \$        | 3,687.70   | \$  | 3,761.45   |
| 701300   | Overtime            | \$        | 5,250.00   | \$ | 5,250.00   | \$ | 5,355.00   | \$        | 5,462.10   | \$        | 5,571.34   | \$  | 5,682.77   |
| 701406   | Standyby Pay        | \$        | 33,000.00  | \$ | 39,000.00  | \$ | 39,780.00  | \$        | 40,575.60  | \$        | 41,387.11  | \$  | 42,214.85  |
| 701408   | Call Back           | \$        | 6,500.00   | \$ | 6,500.00   | \$ | 6,630.00   | \$        | 6,762.60   | \$        | 6,897.85   | \$  | 7,035.81   |
| 705110   | Group insurance     | \$        | 42,322.54  | \$ | 58,570.44  | \$ | 59,741.85  | \$        | 60,936.69  | \$        | 62,155.42  | \$  | 63,398.53  |
| 705115   | ER HSA Contribs     | \$        | 8,500.00   | \$ | 8,500.00   | \$ | 8,670.00   | \$        | 8,843.40   | \$        | 9,020.27   | \$  | 9,200.67   |
| 705190   | OPEB Contribution   | \$        | 21,235.00  | \$ | 22,296.75  | \$ | 22,742.69  | \$        | 23,197.54  | \$        | 23,661.49  | \$  | 24,134.72  |
| 705210   | Retirement          | \$        | 118,500.86 | \$ | 143,871.44 | \$ | 146,748.87 | \$        | 149,683.85 | \$        | 152,677.52 | \$  | 155,731.07 |
| 705230   | Medicare April 1986 | \$        | 5,449.97   | \$ | 6,595.07   | \$ | 6,726.97   | \$        | 6,861.51   | \$        | 6,998.74   | \$  | 7,138.72   |
| 705320   | Workmens Com        | \$        | 3,168.76   | \$ | 3,241.42   | \$ | 3,306.25   | \$        | 3,372.37   | \$        | 3,439.82   | \$  | 3,508.62   |
| 705330   | Umemply Comp        | \$        | 318.25     | \$ | 318.25     | \$ | 324.62     | \$        | 331.11     | \$        | 337.73     | \$  | 344.48     |

|  | 710100 | Professional Services                | \$       | 160,015.00      | \$     | 150,000.00 | \$       | 60,000.00            | \$ | 250,000.00 | \$       | 461,000.00 | \$       | 145,000.00 |
|--|--------|--------------------------------------|----------|-----------------|--------|------------|----------|----------------------|----|------------|----------|------------|----------|------------|
|  | 710149 | Invest Pool Allocation               | \$       | 325.00          | \$     | 325.00     | \$       | 325.00               | \$ | 325.00     | \$       | 320.00     | \$       | 320.00     |
| _  | 710200 | Service Contracts                    | \$       | 20,000.00       | \$     | -          | \$       | -                    | \$ | -          | \$       |            | \$       | -          |
| _  | 710205 | Repairs and Maintenance              | \$       | 55,000.00       | \$     | 55,000.00  | \$       | 55,000.00            | \$ | 126,500.00 | \$       | 72,500.00  | \$       | 72,500.00  |
|  | 710210 | Software Maintenance                 | \$       | 120,000.00      | \$     | 120,000.00 | \$       | 115,000.00           | \$ | 115,000.00 | \$       | 115,000.00 | \$       | 115,000.00 |
|  |        | Software Subscrptions                | \$       | 5,500.00        | \$     | 5,500.00   | \$       | -                    | \$ | -          | \$       | -          | \$       | -          |
| 5 Year                                   |        | Small Tools and Allow                | \$       | 5,000.00        | \$     | 3,000.00   | \$       | 3,000.00             | \$ | 3,000.00   | \$       | 3,000.00   | \$       | 3,000.00   |
|  |        | Parts and Supplies                   | \$       | 55,000.00       | \$     | 55,000.00  | \$       | 55,000.00            | \$ | 55,000.00  | \$       | 55,000.00  | \$       | 55,000.00  |
|  |        | Office Supplies                      | \$       | 500.00          | \$     | 1,000.00   | \$       | 1,000.00             | -  | 1,000.00   | \$       | ,          | \$       | 10,000.00  |
| Plan                                     |        | Books and Subscriptions              | \$       | 500.00          | \$     | 500.00     | \$       | 500.00               | -  | 500.00     | \$       | 500.00     |          | 500.00     |
|  |        | Postage                              | \$       | 250.00          | \$     | 250.00     | \$       | 250.00               |    | 250.00     |          | 250.00     |          | 250.00     |
|  |        | Express Courier                      | \$       | 400.00          | \$     | 400.00     | -        | 400.00               |    | 400.00     | \$       | 400.00     |          | 400.00     |
| -  |        | License and Permits                  | \$       | 2,300.00        | \$     | 2,300.00   | \$       | 2,300.00             |    | 2,300.00   | \$       | 2,300.00   | \$       | 2,300.00   |
|  |        | Rental Equipment                     | \$       | -               | \$     | 1,500.00   | \$       | 1,500.00             | \$ | -          | \$       | -          |          |            |
| -  |        | dept indeductible                    | \$       | 900.00          | \$     | 200.00     | \$       | 200.00               | \$ | 200.00     | \$       | 200.00     | \$       | 200.00     |
| Cost per Radio                           |        | Network and data Lines               | \$       | 2,500.00        | \$     | 6,600.00   | \$       | 6,600.00             |    | 6,600.00   | \$       | 6,600.00   |          | 6,600.00   |
| •  |        | Telephone Land lines                 | \$       | 3,000.00        | \$     | 3,000.00   | <u> </u> | 3,000.00             |    | 3,000.00   |          | 3,000.00   |          | 3,000.00   |
| • 2021-2022- \$254.72                    |        | Seminars and Meetings                | \$       | 3,000.00        | \$     | 6,000.00   | <u> </u> | 6,000.00             |    | 10,000.00  |          | 10,000.00  |          | 10,000.00  |
| • 2022-2023- \$257.39                    |        | Auto Expenses                        | \$<br>\$ | 100.00          | \$     | 100.00     | <u> </u> | 100.00               |    | 100.00     | \$       | 100.00     | · ·      | 100.00     |
| · · · · · · · · · · · · · · · · · · ·    | 710519 | Cellular Phones                      | \$<br>\$ | 2,700.00 500.00 | ې<br>د | 3,000.00   | \$<br>\$ | 3,000.00<br>500.00   |    | 3,000.00   | \$<br>\$ | 3,000.00   | \$<br>\$ | 3,000.00   |
| • 2023-2024- \$248.94                    |        |                                      | ې<br>\$  |                 | ې<br>د | 800.00     | ><br>\$  |                      | -  | 800.00     | ې<br>د   | 3,200.00   |          | 800.00     |
| • 2024-2025- \$289.75                    |        | Safety Expense<br>Insurance premiums | ې<br>\$  | 500.00          | ې<br>د | 1,600.00   | ې<br>\$  | 3,200.00<br>1,600.00 |    | 1,697.93   | ې<br>\$  | 1,731.89   |          | 1,766.53   |
|  |        | LT Lease- Land                       | \$       | 149,612.55      | ې<br>د | 149,612.55 | Ŧ        | 152,604.80           |    | 155,656.90 | <u> </u> | · · · ·    | ې<br>\$  | 161,945.44 |
| • 2025-2026- \$316.63**                  |        | Utilities                            | \$       | 59,000.00       | ې<br>د | 67,000.00  |          | 68,340.00            |    | 69,706.80  |          | 71,100.94  |          | 72,522.95  |
| • 2026-2027- \$284.14**                  |        | Natural Gas                          | \$       | 50.00           | \$     | -          | \$       | -                    | \$ | -          | \$       | -          | \$       | -          |
| 2020-2027 - ψ204.14                      | 711100 | ESD Asset Management                 | \$       | 4,890.00        | \$     | 5,379.00   | \$       | 5,486.58             | \$ | 5,596.31   | \$       | 5,708.24   | \$       | 5,822.40   |
| ſ  |        | Equipment Services Replace           | \$       | 21,447.72       | \$     | 23,592.49  | \$       | 24,064.34            |    | 24,545.63  | \$       | 25,036.54  | \$       | 25,537.27  |
| Assume radio count (97/ 5                | 711114 | Equipment Srv O&M                    | \$       | 24,679.38       | \$     | 27,147.32  | \$       | 27,690.27            | \$ | 28,244.07  | \$       | 28,808.95  | \$       | 29,385.13  |
| Assume radio count 6876.5                | 711117 | ESD Fuel Charge                      | \$       | 10,003.32       | \$     | 14,000.00  | \$       | 14,280.00            | \$ | 14,565.60  | \$       | 14,856.91  | \$       | 15,154.05  |
| 1 Technician a year for 2 years included | 711210 | Travel                               | \$       | 5,000.00        | \$     | 12,000.00  | \$       | 12,240.00            | \$ | 12,484.80  | \$       | 12,734.50  | \$       | 12,989.19  |
| in these radio cost above                | 711400 | Overhead- General Fund               | \$       | 46,973.00       |        | 46,973.00  | \$       | 47,912.46            |    | 48,870.71  |          | 49,848.12  |          | 50,845.09  |
| ** Subject to change when P25 system     | 711504 | Equipment non Capital                | \$       | 170,489.45      | \$     | 70,000.00  | \$       | 72,500.00            | \$ | 71,500.00  | \$       | 71,500.00  | \$       | 71,500.00  |
| cut over. (NSRS Members acceptance       | 711508 | Computer Noncapital                  | \$       | 500.00          | \$     | 500.00     | \$       | 500.00               | \$ | 500.00     | \$       | 500.00     | \$       | 500.00     |
| scheduled for December 2025-March 2026)  | 711509 | Comp Softwavre non capital           | \$       | 2,700.00        | \$     | 2,700.00   | \$       | 2,700.00             | \$ | 2,700.00   | \$       | 2,700.00   | \$       | 2,700.00   |
| _~_~,                                    | 711510 | Comm Equipment noncapital            | \$       | -               | \$     | 10,000.00  | \$       | 10,000.00            | \$ | 5,000.00   | \$       | 5,000.00   | \$       | 5,000.00   |
|  | 781004 | Equipment Capital                    | \$       | 60,000.00       | \$     | 130,000.00 | \$       | 60,100.00            | \$ | 60,100.00  | \$       | 60,000.00  | \$       | 120,000.00 |



### 5 Year Plan

• 2022-2024 Add two additional positions over 2 year period time

- Most of the Team's time will be dedicated to the installations of the new P25 system. Still need to support daily activities during construction of new P25 Site builds.
- Maintenance increases to support 5 additional sites. New system will require Network Centric type position as we transition into IP systems.
- 2024-2026 Radio costs increase due to redundancy projects
  - There is an initiative to <u>Increase redundancy within the network to add</u> <u>reliability.</u> These costs may need to be taken out of the infrastructure costs ( if there is remaining money after the P25 System cut over\*\*) These projects can be cut, they are "like to have" not "need" based.
- I believe in planning; A 5 year look ahead gives you time to prepare for or budget for planned projects. ©

# 2022-2023 Budget Discussion Agenda Item 8-





# WCRCS Radio Counts, End of Life Notices, and replacement Options



### Radio Counts

#### • Our New L3Harris Sales Representative is Claire Pender.



Pender, Claire (US) - PSPC 01031 (PSPC NV Account Mgmt CS/MR33019 (SouthWest Sales) (775) 233-8362 Mobile claire.pender@L3Harris.com 240 South Rock BLVD /Suite 137 Reno, NV 89502 / USA claire.pender@L3T.com IM

 2,073 radios ordered out of 5097 contractual commitment of the P25 Radios

- We have reached 40% of our contractual obligation
- Reminder Harris to be onsite for installation Oct 2022- Dec 2023
  - Radio One-Touch for portables "Make ready" for new system
  - Mobile Installations (Don't forget your warranty is on hold until the device goes into service) May begin as early as October 2022.
  - Please have radios purchased prior to these events to be ready for the System cut-over.



# End of Life notices & Replacements Station 12/9/21 options

- The 700/800 MHz P7300 and XG Portable series radios, introduced in 2009 are reaching the end of product life.
  - These especially effect the XG-15P, XG-25P, XG-75P & P7300 Radios

| MILESTONE   | DESCRIPTION   | DATE           |  |  |  |
|---|---|----------------|--|--|--|
| End-of-Manufacturing announcement                   | Sales Connection Mailing  | 8/02/2021      |  |  |  |
|   | P7300   | No LTB Offered |  |  |  |
| Equipment last-time-buy date (Last date             | XG-75P/Pe   | 11/30/2021     |  |  |  |
| for shipments from L3Harris facilities)             | XG-25P  | 11/30/2021     |  |  |  |
|   | XG-15P  | 11/30/2021     |  |  |  |
| End-of-Firmware Support                             | XG Portables  | 11/30/2022     |  |  |  |
| End-of-service parts support* *Limited availability | The end date for purchasing service parts,<br>hardware maintenance support and TAC support. | 11/30/2026     |  |  |  |



#### XL FAMILY FEATURE LIST

| SERIES                      | CONNECT |         |         | EXTREME |         |
|-----------------------------|---------|---------|---------|---------|---------|
| SPECIFICATION               | XL-95P  | XL-150P | XL-185P | XL-200P | XL-400P |
| VHF (136-174 MHz)           | FUTURE  | 0       | 0       | 0       | 0       |
| UHF (378-522 MHz )          | FUTURE  | 0       | 0       | 0       | 0       |
| 700/800 MHz                 | 0       | 0       | 0       | 0       | 0       |
| 900 MHz                     |         |         | 0       |         |         |
| P25/Analog                  | 0       | 0       | 0       | 0       | 0       |
| P25 Trunking                | 0       | 0       | 0       | 0       | 0       |
| Single Key AES/DES          | 0       | 0       | 0       | 0       | 0       |
| Multikey AES/DES Encryption | 0       |         | 0       | 0       | 0       |
| Over-the-Air Programming    | 0       | 0       | 0       | 0       | 0       |
| Over-the-Air Rekeying       | 0       |         | 0       | 0       | 0       |
| Multiband Capable           |         |         |         | 0       | 0       |
| GPS                         | 0       | 0       | 0       | 0       | 0       |
| Bluetooth®                  | 0       | 0       | 0       | 0       | 0       |
| LTE Ready                   |         | 0       | 0       | 0       | 0       |
| Wi-Fi                       | 0       | 0       | 0       | 0       | 0       |
| Top Display                 |         | 0       | 0       | 0       | 0       |
| Advanced Noise Cancellation | 0       | 0       | 0       | 0       | 0       |
| Voice Annunciation          | 0       | 0       | 0       | 0       | 0       |

- XL Connect 95P Order Number: XN-PF78M, Portable, XL-95P, 7/800 MHz, Black
  - Web: https://www.I3harris.com/all-capabilities/xl-connect-95p-portable-radio
- XL Connect<sup>™</sup> 45P Order Number: XK-PF78B, Portable, XL-45P, 7/800 MHz, Gray
  - Web: https://www.l3harris.com/all-capabilities/xl-connect-45p-portable-radio

Final Presentation 12/9/21



# UNR Sponsorship of Desert Research Institute (DRI) to Join the WCRCS as a Sponsored Agency



## Questions?

Melissa Lawney <u>Mlawney@washoecounty.us</u> 775-771-4241 775-858-5952





# 800 MHz Users Meeting

December 9<sup>th</sup>, 2021



# LID Status Update



### LID Status

- Remaining LIDS: 28\* (After Requests granted)
  - Truckee Meadow Fire Protection District (TMFPD)
    - issued 3 LIDs (Consoles)
  - Reno Sparks Indian Colony (RSIC)
    - issued 5 LIDS
    - Requesting 7 Additional LIDS\*\*
  - Sparks Dispatch
    - Issued 4 LIDS
  - Washoe County Sheriffs Dispatch
    - Issued 2 LIDS
  - City of Reno
    - Requesting 7 LIDS\*\*
  - UNR
    - Requesting 6 LIDS for DRI  $\leftarrow$  Agency to be sponsored\*\*
      - 2 Initially, 4 in the future
- Issuance of LIDs will be looked at <u>case by case</u> and prioritized accordingly. Please allow for a few weeks to get back to all requests.



# System Status Update



### System Status Update

- Site issues
  - Slide channel 5 & 11
  - Fox Channel 4
- Outages
  - Fox Solar Panel Commissioning December 1<sup>st</sup> 3<sup>rd</sup>
- Updates
  - Sums updates conducted monthly

Items 5, 6, 7, 8, 9, 10 - Presentation \*revised 12/9/21\*



## WCRCS Infrastructure Maintenance and Replacement Plan 5 Year Plan



#### Maintenance completed in Calendar year 2021

- DC battery banks & rectifier testing
  - Virginia Peak Replaced
  - Mt Rose, Slide and Snowflake purchases made, and planned for installation for next calendar year
- HVAC inspection & repair
  - Snowflake
  - All Sites had filter replacement due to wild fires this year
- Dehydrator/Waveguide pressure testing
  - Slide transmission line replaced
- Generator inspections and repair
  - All sites completed Red Peak & Marble Bluff required some rebuild, and getting parts delayed installation.



# Maintenance completed im 5. Colema 2021

- Tower inspections
  - Marble Bluff 230% Overloaded
  - Mount Rose 84.5% Loaded
  - Poito 24% loaded
  - Ophir 94.5% loaded
- Radio maintenance & alignments
  - All sites spot checked. Alignments & Adjustments made on Slide, Virginia, Red Peak, & Fox Mountain
- Security cameras maintenance and installation
  - Marble Bluff, Peavine, Virginia Peak, Snowflake, Red Peak
- Remote alarms verification and tests
  - Tested at all sites, looking for new solutions at Red Peak and Slide. Eventually entire remote alarming will be replaced with new P25 Radio system.

#### Revised Maintenance Budget

| Account                                |                 |                           | WCRCS Maintenance   |                      |
|--|-----------------|---------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| Maintenance Type                       | <u>Accounts</u> | Acct. Name                | 2022-2023           | 2023-2024           | 2024-2025           | 2025-2026           | 2026-2027           |                      |
| Battery Replacement                    | 781004          | Equipment Capital         | \$130,000.00        |                     |                     |                     | \$120,000.00        | on-going Maintenance |
| Generator Replacement                  | 710205          | Repair and Maintenance    | \$50,837.71         | \$62,000.00         | \$62,000.00         | \$62,000.00         | \$62,000.00         | New Maintenance      |
| Tower Replacement                      | 710100          | Professional Services     |                     |                     |                     | \$211,000.00        | \$145,000.00        |                      |
| Electrical Repairs                     | 711502          | Build Imp Non-Capital     | \$0.00              | \$0.00              | \$0.00              | \$0.00              | \$0.00              |                      |
| Safety Expenses (ie-Carbon Monitor)    | 710571          | Safety Expense            | \$800.00            | \$3,200.00          | \$800.00            | \$3,200.00          | \$800.00            |                      |
| Redundancy Project                     | 710100          | Equipment Capital         |                     |                     | \$250,000.00        | \$250,000.00        |                     |                      |
| DC to DC Converters                    | 711504          | Equipment Non-Capital     | \$0.00              |                     |                     |                     |                     |                      |
| Grounding                              | 711504          | Equipment Non-Capital     | \$20,000.00         | \$1,000.00          | \$1,000.00          | \$1,000.00          | \$1,000.00          |                      |
| Network (ie- routers, switches, Fiber) | 711504          | Equipment Non-Capital     | \$40,000.00         | \$40,000.00         | \$40,000.00         | \$40,000.00         | \$40,000.00         |                      |
| Security                               | 711504          | Equipment Non-Capital     | \$24,075.00         | \$21,000.00         | \$20,000.00         | \$20,000.00         | \$20,000.00         |                      |
| Air conditioner- HVAC                  | 710205          | Repair and Maintenance    | \$10,000.00         | \$10,000.00         | \$30,000.00         | \$30,000.00         | \$30,000.00         |                      |
| Antenna Waveguide System               | 711504          | Equipment Non-Capital     | \$10,000.00         | \$10,000.00         | \$10,000.00         | \$10,000.00         | \$10,000.00         |                      |
| Building Maintenance                   | 710205          | Repair and Maintenance    | \$6,000.00          | \$6,000.00          | \$60,000.00         | \$6,000.00          | \$6,000.00          |                      |
| Breaker replacements                   | 711504          | Equipment Non-Capital     | \$500.00            | \$500.00            | \$500.00            | \$500.00            | \$500.00            |                      |
| Roof repair/ patching                  | 710205          | Repair and Maintenance    | \$10,000.00         | \$10,000.00         | \$10,000.00         | \$10,000.00         | \$10,000.00         |                      |
| Painting/ Building maintenance         | 710205          | Repair and Maintenance    | \$4,000.00          | \$4,000.00          | \$4,000.00          | \$4,000.00          | \$4,000.00          |                      |
| Flooring                               | 710205          | Repair and Maintenance    | \$1,500.00          | \$1,500.00          | \$1,500.00          | \$1,500.00          | \$1,500.00          |                      |
| Door Maintenance or replacement        | 710205          | Equipment Service Replace |                     |                     | \$6,000.00          | \$6,000.00          | \$6,000.00          |                      |
| Radio Alignments                       | 710205          | Repair and Maintenance    | \$15,000.00         | \$15,000.00         | \$15,000.00         | \$15,000.00         | \$15,000.00         |                      |
|  |                 |                           |                     |                     |                     |                     |                     |                      |
| Existing Maintenance                   |                 |                           | \$196,375.00        | \$65,700.00         | \$136,300.00        | \$84,700.00         | \$202,300.00        |                      |
| New Maintenance                        |                 |                           | \$126,337.71        | \$118,500.00        | \$374,500.00        | \$585,500.00        | \$269,500.00        |                      |
|  |                 |                           |                     |                     |                     |                     |                     |                      |
| Total Maintenance Cost                 |                 |                           | <u>\$322,712.71</u> | <u>\$184,200.00</u> | <u>\$510,800.00</u> | <u>\$670,200.00</u> | <u>\$471,800.00</u> |                      |

|                        | Accounts        | WCRCS Maintenance | Past 5 Year      |                  |
|------------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|
| Acct. Name             | <u>Accounts</u> | <u>2022-2023</u>  | <u>2023-2024</u>  | <u>2024-2025</u>  | <u>2025-2026</u>  | <u>2026-2027</u>  | average spend    | <b>Budgeted</b>  |
| Equipment Capital      | 781004          | \$130,000.00      | \$0.00            | \$0.00            | \$0.00            | \$120,000.00      | \$<br>234,115.89 | \$<br>60,000.00  |
| Professional Services  | 710100          | \$0.00            | \$0.00            | \$250,000.00      | \$461,000.00      | \$145,000.00      | \$<br>43,549.72  | \$<br>23,655.58  |
| Safety Expense         | 710571          | \$800.00          | \$3,200.00        | \$800.00          | \$3,200.00        | \$800.00          | \$<br>480.83     | \$<br>500.00     |
| Equipment Non-Capital  | 711504          | \$94,575.00       | \$72,500.00       | \$71,500.00       | \$71,500.00       | \$71,500.00       | \$<br>125,110.13 | \$<br>242,138.20 |
| Repair and Maintenance | 710205          | \$97,337.71       | \$108,500.00      | \$188,500.00      | \$134,500.00      | \$134,500.00      | \$<br>41,887.58  | \$<br>60,000.00  |
|                        |                 |                   |                   |                   |                   |                   | \$<br>445,144.15 | \$<br>386,293.78 |



### 5 Year Plan

#### • Multi-Year

- Network Upgrades to Core Network \$250K (Split over Multiple years)
  - Backhaul that houses the Camera system, remote alarm monitoring and system alarms (Redundant network)
- Adding cameras and security to new sites (\$7K per site)
  - Yellow Peak, Smokey Quartz, Cold Spring, Red Peak, Red Rock, Biltmore/Water tank
- Adding alarming, remote monitoring to new sites (\$2K per site)
  - Contact control point updates and refresh of all alarms, addition of carbon monoxide monitors, door alarms, system alarmsreplacement of Network sentry.
- Upgrade existing generators to Blue Star Generators, and Upgrade all HVAC units to one standard (2 a year-As needed)
- 2022-2023
  - Additional Staff to support bringing 5 new sites on-line. (Proposing 1 Technician)
- 2024-2025\*
  - Add 1 more technician (Adding total of 2 positions over 2 years)
  - Add Microwave Link from Red Rock to Virginia Peak (\$250K- Professional Svc)
- 2025-2026\*
  - Upgrade the Monopole at Edison to a Proper tower (\$211K- Professional Svc)
  - Add Microwave Link from Smokey Quartz to Edison Microwave (\$250K)
- Not Budgeted Yet\*\*
  - Connect fiber in through Incline Village to Tahoe Basin Sites
  - Connect Fiber to Marble Bluff, when County gets fiber to Gerlach.

## 5 Year Plan- Add 2 bodies

WCRCS proposing to add 1 Technicians in 2022-2023 Budget year.

WCRCS proposing to add 1 Technicians in 2023-2024 Budget year.

| WCRCS    | Adding 1 position   |     | 2021-2022  |    | 2022-2023  |    | 2023-2024  |      | 2024-2025  |     | 2025-2026  |     | 2026-2027  |
|----------|---------------------|-----|------------|----|------------|----|------------|------|------------|-----|------------|-----|------------|
| Accounts |                     | Pla | Plan P     |    | Plan       |    | in         | Plan |            | Pla | n          | Pla | n          |
| 701110   | Base Salaries       | \$  | 395,503.25 | \$ | 480,126.59 | \$ | 574,352.46 | \$   | 585,839.51 | \$  | 597,556.30 | \$  | 609,507.43 |
| 701130   | Pooled Positions    | \$  | 14,728.35  | \$ | 14,728.35  | \$ | 15,022.92  | \$   | 15,323.38  | \$  | 15,629.84  | \$  | 15,942.44  |
| 701140   | Holiday Work        | \$  | 500.00     | \$ | -          | \$ | -          | \$   | -          | \$  | -          | \$  | -          |
| 701200   | Incentive longevity | \$  | 3,150.00   | \$ | 3,475.00   | \$ | 3,544.50   | \$   | 3,615.39   | \$  | 3,687.70   | \$  | 3,761.45   |
| 701300   | Overtime            | \$  | 5,250.00   | \$ | 5,250.00   | \$ | 5,355.00   | \$   | 5,462.10   | \$  | 5,571.34   | \$  | 5,682.77   |
| 701406   | Standyby Pay        | \$  | 33,000.00  | \$ | 39,000.00  | \$ | 39,780.00  | \$   | 40,575.60  | \$  | 41,387.11  | \$  | 42,214.85  |
| 701408   | Call Back           | \$  | 6,500.00   | \$ | 6,500.00   | \$ | 6,630.00   | \$   | 6,762.60   | \$  | 6,897.85   | \$  | 7,035.81   |
| 705110   | Group insurance     | \$  | 42,322.54  | \$ | 58,570.44  | \$ | 59,741.85  | \$   | 60,936.69  | \$  | 62,155.42  | \$  | 63,398.53  |
| 705115   | ER HSA Contribs     | \$  | 8,500.00   | \$ | 8,500.00   | \$ | 8,670.00   | \$   | 8,843.40   | \$  | 9,020.27   | \$  | 9,200.67   |
| 705190   | OPEB Contribution   | \$  | 21,235.00  | \$ | 22,296.75  | \$ | 22,742.69  | \$   | 23,197.54  | \$  | 23,661.49  | \$  | 24,134.72  |
| 705210   | Retirement          | \$  | 118,500.86 | \$ | 143,871.44 | \$ | 146,748.87 | \$   | 149,683.85 | \$  | 152,677.52 | \$  | 155,731.07 |
| 705230   | Medicare April 1986 | \$  | 5,449.97   | \$ | 6,595.07   | \$ | 6,726.97   | \$   | 6,861.51   | \$  | 6,998.74   | \$  | 7,138.72   |
| 705320   | Workmens Com        | \$  | 3,168.76   | \$ | 3,241.42   | \$ | 3,306.25   | \$   | 3,372.37   | \$  | 3,439.82   | \$  | 3,508.62   |
| 705330   | Umemply Comp        | \$  | 318.25     | \$ | 318.25     | \$ | 324.62     | \$   | 331.11     | \$  | 337.73     | \$  | 344.48     |

|  | 710100 | Professional Services            | \$       | 160,015.00      | \$     | 150,000.00 | \$       | 60,000.00          | \$ | 250,000.00      | \$       | 461,000.00      | \$      | 145,000.00      |
|--|--------|----------------------------------|----------|-----------------|--------|------------|----------|--------------------|----|-----------------|----------|-----------------|---------|-----------------|
|  | 710149 | Invest Pool Allocation           | \$       | 325.00          | \$     | 325.00     | \$       | 325.00             | \$ | 325.00          | \$       | 320.00          | \$      | 320.00          |
| _  | 710200 | Service Contracts                | \$       | 20,000.00       | \$     | -          | \$       |                    | \$ | TO - Fresenta   | \$       |                 | \$      | -               |
| _  | 710205 | Repairs and Maintenance          | \$       | 55,000.00       | \$     | 55,000.00  | \$       | 55,000.00          | \$ | 126,500.00      | \$       | 72,500.00       | \$      | 72,500.00       |
|  | 710210 | Software Maintenance             | \$       | 120,000.00      | \$     | 120,000.00 | \$       | 115,000.00         | \$ | 115,000.00      | \$       | 115,000.00      | \$      | 115,000.00      |
|  |        | Software Subscrptions            | \$       | 5,500.00        | \$     | 5,500.00   | \$       | -                  | \$ | -               | \$       | -               | \$      | -               |
| 5 Year                                   |        | Small Tools and Allow            | \$       | 5,000.00        | \$     | 3,000.00   | \$       | 3,000.00           | \$ | 3,000.00        | \$       | 3,000.00        | \$      | 3,000.00        |
|  |        | Parts and Supplies               | \$       | 55,000.00       | \$     | 55,000.00  | \$       | 55,000.00          | \$ | 55,000.00       | \$       | 55,000.00       | \$      | 55,000.00       |
|  |        | Office Supplies                  | \$       | 500.00          | \$     | 1,000.00   | \$       | 1,000.00           | -  | 1,000.00        | \$       | ,               | \$      | 10,000.00       |
| Plan                                     |        | Books and Subscriptions          | \$       | 500.00          | \$     | 500.00     |          | 500.00             |    | 500.00          |          | 500.00          |         | 500.00          |
|  |        | Postage                          | \$       | 250.00          | \$     | 250.00     | \$       | 250.00             |    | 250.00          |          | 250.00          |         | 250.00          |
|  |        | Express Courier                  | \$       | 400.00          | \$     | 400.00     | -        | 400.00             |    | 400.00          | \$       | 400.00          |         | 400.00          |
| -  |        | License and Permits              | \$       | 2,300.00        | \$     | 2,300.00   | \$       | 2,300.00           |    | 2,300.00        | \$       | 2,300.00        | \$      | 2,300.00        |
|  |        | Rental Equipment                 | \$       | -               | \$     | 1,500.00   | \$       | 1,500.00           | \$ | -               | \$       | -               |         |                 |
| -  |        | dept indeductible                | \$       | 900.00          | \$     | 200.00     | \$       | 200.00             | \$ | 200.00          | \$       | 200.00          | \$      | 200.00          |
| Cost per Radio                           |        | Network and data Lines           | \$       | 2,500.00        | \$     | 6,600.00   | \$       | 6,600.00           |    | 6,600.00        | \$       | 6,600.00        |         | 6,600.00        |
| •  |        | Telephone Land lines             | \$       | 3,000.00        | \$     | 3,000.00   |          | 3,000.00           |    | 3,000.00        |          | 3,000.00        |         | 3,000.00        |
| • 2021-2022- \$254.72                    |        | Seminars and Meetings            | \$       | 3,000.00        | \$     | 6,000.00   | <u> </u> | 6,000.00           |    | 10,000.00       |          | 10,000.00       |         | 10,000.00       |
| • 2022-2023- \$257.39                    |        | Auto Expenses<br>Cellular Phones | \$<br>\$ | 100.00          | Ş<br>¢ | 100.00     | \$<br>\$ | 100.00             |    | 100.00 3,000.00 | Ş        | 100.00 3,000.00 | · ·     | 100.00 3,000.00 |
|  | 710519 |                                  | \$<br>\$ | 2,700.00 500.00 | ې<br>د | 3,000.00   | ې<br>\$  | 3,000.00<br>500.00 |    | 500.00          | ې<br>\$  | 500.00          | ې<br>\$ | 500.00          |
| • 2023-2024- \$248.94                    |        | Safety Expense                   | \$<br>\$ | 500.00          | ې<br>د | 800.00     | ې<br>\$  | 3,200.00           | -  | 800.00          | ې<br>د   | 3,200.00        | •       | 800.00          |
| • 2024-2025- \$289.75                    |        | Insurance premiums               | \$       | 1,100.00        | ې<br>د | 1,600.00   | \$<br>\$ | 1,600.00           |    | 1,697.93        | ې<br>\$  | 1,731.89        |         | 1,766.53        |
|  |        | LT Lease- Land                   | \$       | 149,612.55      | ې<br>د | 149,612.55 | Ŧ        | 152,604.80         |    | 155,656.90      | <u> </u> | · · · ·         | \$      | 161,945.44      |
| • 2025-2026- \$316.63**                  |        | Utilities                        | \$       | 59,000.00       | \$     | 67,000.00  |          | 68,340.00          |    | 69,706.80       |          | 71,100.94       |         | 72,522.95       |
| • 2026-2027- \$284.14**                  |        | Natural Gas                      | \$       | 50.00           | \$     | -          | \$       | -                  | \$ | -               | \$       | -               | \$      | -               |
| 2020 2027 \$204.14                       | 711100 | ESD Asset Management             | \$       | 4,890.00        | \$     | 5,379.00   | \$       | 5,486.58           | \$ | 5,596.31        | \$       | 5,708.24        | \$      | 5,822.40        |
| -  | 711113 | Equipment Services Replace       | \$       | 21,447.72       | \$     | 23,592.49  | \$       | 24,064.34          | \$ | 24,545.63       | \$       | 25,036.54       | \$      | 25,537.27       |
| Assume radio count (97/ 5                | 711114 | Equipment Srv O&M                | \$       | 24,679.38       | \$     | 27,147.32  | \$       | 27,690.27          | \$ | 28,244.07       | \$       | 28,808.95       | \$      | 29,385.13       |
| Assume radio count 6876.5                | 711117 | ESD Fuel Charge                  | \$       | 10,003.32       | \$     | 14,000.00  | \$       | 14,280.00          | \$ | 14,565.60       | \$       | 14,856.91       | \$      | 15,154.05       |
| 1 Technician a year for 2 years included | 711210 | Travel                           | \$       | 5,000.00        | \$     | 12,000.00  | \$       | 12,240.00          | \$ | 12,484.80       | \$       | 12,734.50       | \$      | 12,989.19       |
| in these radio cost above                | 711400 | Overhead- General Fund           | \$       | 46,973.00       |        | 46,973.00  | \$       | 47,912.46          |    | 48,870.71       |          | 49,848.12       |         | 50,845.09       |
| ** Subject to change when P25 system     | 711504 | Equipment non Capital            | \$       | 170,489.45      | \$     | 70,000.00  | \$       | 72,500.00          | \$ | 71,500.00       | \$       | 71,500.00       | \$      | 71,500.00       |
| cut over. (NSRS Members acceptance       | 711508 | Computer Noncapital              | \$       | 500.00          | \$     | 500.00     | \$       | 500.00             | \$ | 500.00          | \$       | 500.00          | \$      | 500.00          |
| scheduled for December 2025-March 2026)  | 711509 | Comp Softwavre non capital       | \$       | 2,700.00        | \$     | 2,700.00   | \$       | 2,700.00           | \$ | 2,700.00        | \$       | 2,700.00        | \$      | 2,700.00        |
| _~_~,                                    | 711510 | Comm Equipment noncapital        | \$       | -               | \$     | 10,000.00  | \$       | 10,000.00          | \$ | 5,000.00        | \$       | 5,000.00        | \$      | 5,000.00        |
|  | 781004 | Equipment Capital                | \$       | 60,000.00       | \$     | 130,000.00 | \$       | 60,100.00          | \$ | 60,100.00       | \$       | 60,000.00       | \$      | 120,000.00      |



### 5 Year Plan

• 2022-2024 Add two additional positions over 2 year period time

- Most of the Team's time will be dedicated to the installations of the new P25 system. Still need to support daily activities during construction of new P25 Site builds.
- Maintenance increases to support 5 additional sites. New system will require Network Centric type position as we transition into IP systems.
- 2024-2026 Radio costs increase due to redundancy projects
  - There is an initiative to <u>Increase redundancy within the network to add</u> <u>reliability</u>. These costs may need to be taken out of the infrastructure costs ( if there is remaining money after the P25 System cut over\*\*) These projects can be cut, they are "like to have" not "need" based.
- I believe in planning; A 5 year look ahead gives you time to prepare for or budget for planned projects. ©

# 2022-2023 Budget Discussion Agenda Item 8-





# WCRCS Radio Counts, End of Life Notices, and replacement Options



### Radio Counts

#### • Our New L3Harris Sales Representative is Claire Pender.



Pender, Claire (US) - PSPC 01031 (PSPC NV Account Mgmt CS/MR33019 (SouthWest Sales) (775) 233-8362 Mobile claire.pender@L3Harris.com 240 South Rock BLVD /Suite 137 Reno, NV 89502 / USA claire.pender@L3T.com IM

- 1,818 radios ordered out of 5097 contractual commitment of the P25 Radios
  - We have reached 35% of our contractual obligation
  - Reminder Harris to be onsite for installation Oct 2022- Dec 2023
    - Radio One-Touch for portables "Make ready" for new system
    - Mobile Installations (Don't forget your warranty is on hold until the device goes into service) May begin as early as October 2022.
    - Please have radios purchased prior to these events to be ready for the System cut-over.



#### End of Life notices & Replacements<sup>ised 12/9/21\*</sup> options

- The 700/800 MHz P7300 and XG Portable series radios, introduced in 2009 are reaching the end of product life.
  - These especially effect the XG-15P, XG-25P, XG-75P & P7300 Radios

| MILESTONE   | DESCRIPTION   | DATE           |  |  |  |
|---|---|----------------|--|--|--|
| End-of-Manufacturing announcement                   | Sales Connection Mailing  | 8/02/2021      |  |  |  |
|   | P7300   | No LTB Offered |  |  |  |
| Equipment last-time-buy date (Last date             | XG-75P/Pe   | 11/30/2021     |  |  |  |
| for shipments from L3Harris facilities)             | XG-25P  | 11/30/2021     |  |  |  |
|   | XG-15P  | 11/30/2021     |  |  |  |
| End-of-Firmware Support                             | XG Portables  | 11/30/2022     |  |  |  |
| End-of-service parts support* *Limited availability | The end date for purchasing service parts,<br>hardware maintenance support and TAC support. | 11/30/2026     |  |  |  |



#### XL FAMILY FEATURE LIST

| ed | 12 | /9/ | /21 | * |
|----|----|-----|-----|---|
|----|----|-----|-----|---|

| SERIES                      | CONNECT | CONVERGE |         |         | EXTREME |
|-----------------------------|---------|----------|---------|---------|---------|
| SPECIFICATION               | XL-95P  | XL-150P  | XL-185P | XL-200P | XL-400P |
| VHF (136-174 MHz)           | FUTURE  | 0        | 0       | 0       | 0       |
| UHF (378-522 MHz )          | FUTURE  | 0        | 0       | 0       | 0       |
| 700/800 MHz                 | 0       | 0        | 0       | 0       | 0       |
| 900 MHz                     |         |          | 0       |         |         |
| P25/Analog                  | 0       | 0        | 0       | 0       | 0       |
| P25 Trunking                | 0       | 0        | 0       | 0       | 0       |
| Single Key AES/DES          | 0       | 0        | 0       | 0       | 0       |
| Multikey AES/DES Encryption | 0       |          | 0       | 0       | 0       |
| Over-the-Air Programming    | 0       | 0        | 0       | 0       | 0       |
| Over-the-Air Rekeying       | 0       |          | 0       | 0       | 0       |
| Multiband Capable           |         |          |         | 0       | 0       |
| GPS                         | 0       | 0        | 0       | 0       | 0       |
| Bluetooth®                  | 0       | 0        | 0       | 0       | 0       |
| LTE Ready                   |         | 0        | 0       | 0       | 0       |
| Wi-Fi                       | 0       | 0        | 0       | 0       | 0       |
| Top Display                 |         | 0        | 0       | 0       | 0       |
| Advanced Noise Cancellation | 0       | 0        | 0       | 0       | 0       |
| Voice Annunciation          | 0       | 0        | 0       | 0       | 0       |

- XL Connect 95P Order Number: XN-PF78M, Portable, XL-95P, 7/800 MHz, Black
  - Web: https://www.I3harris.com/all-capabilities/xl-connect-95p-portable-radio
- XL Connect<sup>™</sup> 45P Order Number: XK-PF78B, Portable, XL-45P, 7/800 MHz, Gray
  - Web: https://www.l3harris.com/all-capabilities/xl-connect-45p-portable-radio



## UNR Sponsorship of Desert Research Institute (DRI) to Join the WCRCS as a Sponsored Agency

Items 5, 6, 7, 8, 9, 10 - Presentation \*revised 12/9/21\*



# Questions?

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