

September 27, 2023 Agenda Item B-1

Governing Board Communication

TO: MERA Governing Board

FROM: Dave Jeffries, Deputy Executive Officer for the Next Gen System

SUBJECT: Report # 113 on the Next Gen System (Accept Report)

Recommended Action: For information or discussion only

Background:

- 1) Recent Project Meetings and Conference Calls (Updated)
 - a. MERA Executive Staff Calls: Bi-Weekly
 - b. Construction / Motorola / Next Gen Staff Calls: Weekly
- 2) Project Schedule: The following is based on the draft schedule dated 09/14/2023. The Project Schedule is currently under continued joint MSI/MERA review. Note that Final Acceptance has moved out significantly. In this schedule, several post cutover items have been added in for the first time, including: relocation and reconfiguration of some conventional radio equipment, decommissioning of Gen I equipment as well as project close out processes that occur after we have successfully moved everyone over to the new Next Gen System.

Description	04/28/22	03/09/23	09/14/23
	Baseline	Update	Update
Site Work and Tower Turnover	09/25/2023	01/30/2024	12/29/2023
P25 Installation – Complete	09/08/2023	02/14/2024	05/14/2024
Microwave Install, Optimize and Test	10/13/2023	02/26/2024	05/09/2024
Perform System Functional Testing	12/11/2023	04/23/2024	08/09/2024
Perform CATP (Coverage Testing)	03/14/2024	07/25/2024	09/25/2024
Dispatch Site Installations – Complete	04/16/2024	08/27/2024	06/06/2024
Field User Cutover – Complete	05/01/2024	10/12/2024	10/10/2024
Final System Acceptance	10/08/2024	02/24/2025	06/30/2025

3) Bid Packages:

- a. BP-1/1A: Construction complete. Motorola Installations complete. Microwave will be installed later.
- b. BP-2: Construction complete.
 - i. Sonoma Mountain/Big Rock: Pending Microwave.
 - ii. San Pedro: Optimization TBD. Pending Microwave.
- c. BP-3: Construction (Note All generators have arrived and installs start this week). Shelter install star mid-October)
 - i. Skyview: Fence, Shelter and generator pending. Site work, electrical and monopole complete.



- ii. Mill Valley: Fence, Shelter and generator pending. Site work, electrical and monopole complete.
- Wolfback: Shelter work in progress, exterior work delayed due to new RF concerns, new RF study received, restarting effort. Existing tower.
- iv. Tomales: Fence, Shelter and generator pending. Site work, electrical and monopole complete.
- d. BP-4: Construction
 - i. Coyote Peak: Fence, Shelter and generator pending. Site work, electrical and monopole complete. Road Punchlist remaining.
 - ii. OTA: Shelter work in progress. Has an existing tower. Exterior work and electrical pending. Working with PG&E on connection.
 - iii. Muir Beach: Fence, Shelter and generator pending. Site work, site electrical and monopole complete. Working with PG&E on connection.
 - iv. Pt Reyes: FAA Antenna moved. Shelter work in progress. Monopole scheduled for installation. Existing electrical.
 - v. Mt Tamalpais: Interior work in progress. Tower/Stub tower work pending MMWD follow Up. Existing electrical.
- 4) Site Overview:

As of: 09/11/2023	Р	re-Cons	tructi	on	Const	ruction	Motorola			
Site	Pre-Bid Activity	Bid Packages	Bids Out to Bid	Bids Awarded	Start	Complete	Staging	Shelters	Towers	Accept
EOF		#1								
Civic Center		#1								
Big Rock		#2								
Mt. Tam.		#4								
Mt. Barnabe		#1								
Point Reyes		#4								
Dollar Hill		#1A								
San Pedro		#2								
Tiburon		#1A								
Sonoma Mt.		#2								
Stewarts Pt.		#1A								
Tomales		#3								
Coyote Peak		#4								

Marin Emergency Radio Authority [MERA]

	September 27, 2023			
Skyview Terr.	#3			
Muir Beach	#4			
Wolfback Rdg.	#3			
ΟΤΑ	#4			
Mill Valley	#3			
	Completed	In progress		

5) Key Project Summary Details:

- a. Code Plugs
 - i. Motorola developing Code Plugs for NG radios.
 - ii. MERA part of the regional Key Sharing process to support Mutual Aid use.
- b. Connectivity (Dispatch, FSA, Wi-Fi)
 - i. Pilot program in progress. Info on new connections being shared with agencies.
- c. Microwave Network When we near completion of construction, Nokia will send
- a team to install the entire microwave network to tie all the sites together.
- d. End User Training Training Committee chairs meeting 09/29.

6) Project Summary Table:

Tasks Completed	Upcoming Tasks
1. Pt Reyes Site – FAA Pole	1. Fire Station Alerting installations
deconfliction	2. Logging Recorder Plan development
2. Test site at EOF for radio testing	3. Cutover Plan development
3. Finalize Subscriber orders	
4. Fire Station Alerting components have	
arrived	
5. Jail DAS site survey completed	
Tasks in Progress	Next Six Months
1. Motorola installations at BP- 2 sites	1. Microwave installations
2. Training Committee Review of	2. Complete construction
Motorola materials	3. Complete End User training plan
3. Construction of BP-3 and BP-4 sites	
4. Coordinate with new Fire Dispatch	
Center	
5. Project Schedule under joint review	

Marin Emergency Radio Authority [MERA]

September 27, 2023

6. Generator Air Quality permits	

7) New Construction Change Orders for Bid Package #3 and #4:

Date	BP	Site	Issue	Amount
07/28/23	3	Tomales	Increase Shelter Size	\$15,597.36
09/01/23	3	Skyview	Additional Grounding Efforts	\$19,183.82
09/01/23	3	Wolfback	Additional Demo of Existing Shelter	\$5,417.83
07/28/23	4	Coyote	Credit – Reduced Trench Dams	-\$19,449.83
07/28/23	4	Mt. Tam	Create Tower Drawings	\$1,740.00
09/01/23	4	Coyote	Credit – Reduced Road Scope	-\$170,605.94
09/01/23	4	OTA	Additional Demo of Existing Shelter	\$5,417.83
			Total Change:	-\$142,698.93

As a reminder, PCO #1 for BP#3 was moving BP#4 costs for long lead items up to BP#3 to avoid Supply Chain Issues rather than as a change in costs.

Except for that Change Order, Change Orders to BP#3 currently total \$48,928.50 and Change Orders to BP#4 currently total -\$420,631.14 for a net total of -\$371,702.64.

8) Questions and issues regarding the Next Gen System should be referred to Deputy Executive Officer for the Next Gen System Dave Jeffries.