

NGEN Executive Board

NGEN Executive Board Action Item 24-005

Date: September 12, 2024

Presented by: Thomas Montoya

On behalf of: County of Monterey ITD

Request:

1. Approve the receipt of the HSGP grant award in the amount of \$363,599 in FY24-25 to partially fund the NGEN Analog Overlay Upgrade CIP project;
2. Approve the expenditure budget of \$1M for the NGEN Analog Overlay Upgrade CIP:

FY24-25 \$600,000;

FY25-26 \$400,000;

3. Approve project funding of \$636,401 from the NGEN Capital Fee (Fund 405):

FY24-25 \$236,401 (\$600K minus \$363,599 HSGP);

FY25-26 \$400,000;

4. Approve and authorize the Chief Information Officer to execute an agreement with Motorola Solutions for hardware only as part of the RFQ process.

Summary/Discussion:

The NGEN VHF analog overlay system (Analog Overlay) was introduced about ten years ago and is aged. Some parts of the system already reached end of life and end of support and must be upgraded or replaced. The Analog Overlay system provides wide-area coverage and channels that are used for interoperable communications with outside agencies, provide coverage in areas outside the digital system footprint, support analog paging requirements, and provide secondary redundancy to the digital system. The Analog Overlay systems inter-connects to the overall NGEN (digital and analog) system occurring at the Harris Interoperability Gateway within the Network Switching Center. The analog systems connect to centralized comparators / voters which select the receiver with the best signal and routes that receiver's audio back to the dispatcher.

The Analog Overlay system includes channels dedicated for Law Overlay, Fire Overlay Command 31A Countywide, Command 33A Salinas, Command 35A Peninsula, and Interop CWIDE 4A with each of these sub-systems having their own voting comparator. This project will include the replacement of only the radios, sixty-five (65) total, which have reached both the end of life and support resulting in the difficulty finding available parts for repairs. The other components of the Analog Overlay systems including the comparators/voters, filtering, and antennas are generally in good condition and still supported. The replacement of those components will be included in a future project funding request. **Exhibit A** is the original approved 5-year CIP Plan and Capital Fee. **Exhibit 2** is a revised 5-year CIP cost projection reflecting the HSGP grant as a funding source for the Analog Project. Revisions to this matrix also include

updated unobligated fund balance due to accrued interest on savings (including unexpended funds for the ISSI CIP project \$86K), and the latest Core Upgrade cost schedule. The revised plan shows a surplus of approximately \$238K at the end of year 5 versus the approved plan which had a deficit of \$257K. There is no change request to the existing capital fee collection.

The HSGP grant has required the project be placed out for RFQ to ensure fair and reasonable pricing. ITD is working with DEM to ensure grant compliance for procurement and implementation.

Staff Recommendation:

County staff recommends the NGEN Executive Board approve these action items.

Fiscal Impact:

Unforeseen system failures are costly and unpredictable with technology that has exceeded its useful life.

Effect(s) of Failure to Approve Request and/or caveats:

The system is operating with radios that have reached the end of support which make it difficult to find spare parts. Parts are no longer manufactured / supported and eventually repairs will not be possible.

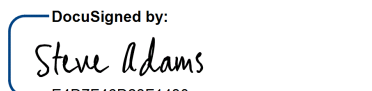
_____ **Executive Board Action** _____

Modification to requested action: Yes ___ No X

MODIFICATION:

Vote Date 09/12/2024

Motion by Rene Mendez 2nd John Guertin Approved: Yeas X Nays _____

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Steve Adams, Vice Chair

Yeas: 4

Nays: 0

Exhibit A: 5-Year CIP Plan & Capital Fee (Original Approved Plan)

FUNDING					COSTS						YEAR END BALANCE	
Year No.	Fiscal Year	Capital Fee Funding	Surplus Funding	FY Total Funding	L3Harris Core Upgrade Cost	Motorola SmartConnect Cost	Analog Overlay Cost	Post Ranch Cost	System Coverage Assessment Cost	FY Total Cost	Running Balance	Notes
1	FY 24-25	\$ 850,981	\$ 300,000	\$ 1,150,981	\$ (425,524)		\$ (600,000)			\$ (1,025,524)	\$ 125,457	*100% Complete Core Upgrade *60% Progress Analog Upgrade
2	FY 25-26	\$ 850,981		\$ 850,981	\$ (425,524)		\$ (400,000)			\$ (825,524)	\$ 150,915	*100% Complete Analog Upgrade
3	FY 26-27	\$ 850,981		\$ 850,981	\$ (425,524)			\$ (285,000)		\$ (710,524)	\$ 291,372	*100% Complete Post Ranch
4	FY 27-28	\$ 850,981		\$ 850,981	\$ (425,524)	\$ (650,000)				\$ (1,075,524)	\$ 66,830	*100% Complete SmartConnect
5	FY 28-29	\$ 850,981		\$ 850,981	\$ (425,524)	\$ (650,000)			\$ (100,000)	\$ (1,175,524)	\$ (257,713)	*100% Cmpltd Coverage Assessment FUNDING DEFICIT
6	FY 29-30											No projects currently planned for FY29-30
7	FY 30-31											
8	FY 31-32											
9	FY 32-33											
10	FY 33-34											
Projected Grand Total		\$ 4,254,905	\$ 300,000	\$ 4,554,905	\$ (2,127,618)	\$ (1,300,000)	\$ (1,000,000)	\$ (285,000)	\$ (100,000)	\$ (4,812,618)		

Exhibit B: 5-Year CIP Plan & Capital Fee (Revised Plan with HSGP Grant)

FUNDING					COSTS						YEAR END BALANCE		
Year No.	Fiscal Year	Capital Fee Funding	Unobligated Fund Balance	HSGP Grant (Analog Overlay)	FY Total Funding	L3Harris Core Upgrade Cost	Motorola SmartConnect Cost	Analog Overlay Cost	Post Ranch Cost	System Coverage Assessment Cost	FY Total Cost	Running Balance	Notes
1	FY 24-25	\$ 850,981	\$ 433,000	\$ 363,599	\$ 1,647,580	\$ (425,524)		\$ (600,000)			\$ (1,025,524)	\$ 622,056	*Commence Core Upgrade *60% Progress Analog Upgrade
2	FY 25-26	\$ 850,981			\$ 850,981	\$ (994,000)		\$ (400,000)			\$ (1,394,000)	\$ 79,037	*100% Complete Analog Upgrade
3	FY 26-27	\$ 850,981			\$ 850,981	\$ (708,094)			\$ (100,000)		\$ (808,094)	\$ 121,924	*100% Complete Core Upgrade *Commence Post Ranch
4	FY 27-28	\$ 850,981			\$ 850,981		\$ (650,000)		\$ (185,000)		\$ (835,000)	\$ 137,905	*100% Complete SmartConnect *100% Complete Post Ranch
5	FY 28-29	\$ 850,981			\$ 850,981		\$ (650,000)			\$ (100,000)	\$ (750,000)	\$ 238,886	*100% Cmplt Coverage Assmt *SmartConnect Invoice due
6	FY 29-30				\$ -						\$ -	\$ 238,886	No projects currently planned for FY29-30 / Cap Fee Not Approved
7	FY 30-31												
8	FY 31-32												
9	FY 32-33												
10	FY 33-34												
Projected Grand Total		\$ 4,254,905	\$ 433,000	\$ 363,599	\$ 5,051,504	\$ (2,127,618)	\$ (1,300,000)	\$ (1,000,000)	\$ (285,000)	\$ (100,000)	\$ (4,812,618)		