

NGEN Executive Board

NGEN Executive Board Action Item 24-004

Date: September 12, 2024

Presented by: Thomas Montoya

On behalf of: County of Monterey ITD

Request:

1. Approve and authorize the Chief Information Officer to execute an agreement with L3Harris governed by the existing Sourcewell Cooperative Agreement (MYA #6938) and enter into a MOU with the City of Greenfield for the consolidated project with the associated cost sharing:

Total L3Harris Vendor Proposal \$2,479,667

- a. NGEN Core Upgrade \$1,909,343 (77%)
- b. Greenfield Site Build \$570,324 (23%)

2. Approve the total expenditure budget of \$2,127,618 for the NGEN Core Upgrade CIP to be distributed over three fiscal years:

FY24-25 \$425,524;

FY25-26 \$994,000;

FY26-27 \$708,094;

3. Approve the total project funding in the amount of \$2,127,618 from the NGEN Capital Fee (Fund 405) to be distributed over three fiscal years:

FY24-25 \$425,524;

FY25-26 \$994,000;

FY26-27 \$708,094;

Summary/Discussion:

This project was originally scoped to upgrade and replace the NGEN L3Harris core along with software only upgrades to the sites and dispatch consoles replacing portions of the NGEN system that were installed more than ten years ago that have already reached end of life and end of support. This project will upgrade the NGEN core to the latest SR11 release (physical servers, operation systems, routers and switches, and storage area network) keeping the system maintainable and more resilient to system outages. The new system will be compatible with recent P25 phase II upgrade. First responders will be able to maintain critical LMR features and not suffer from unplanned outages due to aged equipment failures. This project excludes upgrades to the digital system site equipment including MPLS routing, RF

site radios, and site network devices all of which will be potential future CIP projects. The excluded hardware is still in good operating condition, confirmed to be compatible with SR11 by L3Harris, and more importantly supported by their respective vendors.

L3Harris has provided several iterations of their proposal offering generous discounts for leveraging the Sourcewell cooperative agreement, leveraging onsite mobilization, and combining multiple objectives. L3Harris' final proposal included the replacement of the dispatch console pc (hardware). The original scope only includes an upgrade to the software and replacement of the hard drive for expanded memory; however, by replacing the hardware with updated software now removes the need for another future upgrade, mobilization, and system outage. Savings for this combination is valued at \$504k. Through negotiations spare hardware was included in the base proposal cost which is a savings of \$105K. Lastly, an economy of scale was leveraged by combining both the Core Upgrade and the City of Greenfield's Site Project addition where NGEN saves \$94K and Greenfield saves \$267K in mobilization labor costs (**Exhibit A**). Both projects are occurring concurrently, L3Harris has proposed that both projects mobilize at the same time reducing the number of resources required to manage a single project. The County will enter into an MOU with the City of Greenfield to facilitate this project approach where Greenfield has received \$1M in grant funding to construct a site to increase system coverage within their city limits. The total L3Harris proposal is \$2.48M with NGEN Core Upgrade share of cost being \$1.91M (77%) and Greenfield site build being \$570K (23%). The percentage breakout was calculated by L3Harris. Greenfield will have funding remaining from their grant to fund the microwave backhaul connectivity and site construction to support the equipment.

Exhibit B this original approved 5-year CIP plan with Capital Fees. The Core Upgrade project will initiate in FY24-25, but due to expected long lead times for delivery of materials the implementation could extend through the first two quarters of FY26-27.

Exhibit C is a revised 5-year CIP plan reflecting the L3Harris milestone payment schedule across three fiscal years and the schedule for implementation. The expenditures are spread out over 3 years instead of 5 years. This cost is based on L3Harris' firm fixed proposal which does not incur finance charges. The HSGP grant is shown as a funding source for the Analog Project. Additionally, the most current unobligated balance was revised from \$300k to \$433k in which the reserves funding earned interest and the ISSI project, unexpended amount of \$86k, was completed and stopped until a third party ISSI connection can be established such as Smart Connect which is already factored as a future CIP project. 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 five-year plan was approved with a total \$2.127M budget for the Core Upgrade. The vendor proposal totaled \$1.91M (includes taxes and shipping) for the NGEN share of cost (77%) where there is no interest charges, spares are included (valued at \$105K), and dispatch console pc hardware replacement is included (\$504K savings by replacing hardware now). IT is recommending that the \$218K difference (\$2.127M less \$1.91M) be allocated for project contingency and will require the NGEN Executive Board's approval prior to utilizing.

Staff Recommendation:

County staff recommends the NGEN Executive Board approve these action items to yield the savings aforementioned.

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 NGEN system will be operating with system components that have reached the end of life and it is only a matter of time before they reach end of support. The technology runs the risk of unforeseen crashes, downtimes, increase costs, decrease productivity, security risk, and potential interoperability and compatibility issues with other system devices.


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

DocuSigned by:

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Steve Adams, Vice Chair

Yeas: 4

Nays: 0

Exhibit A: L3Harris Project Proposals Comparisons

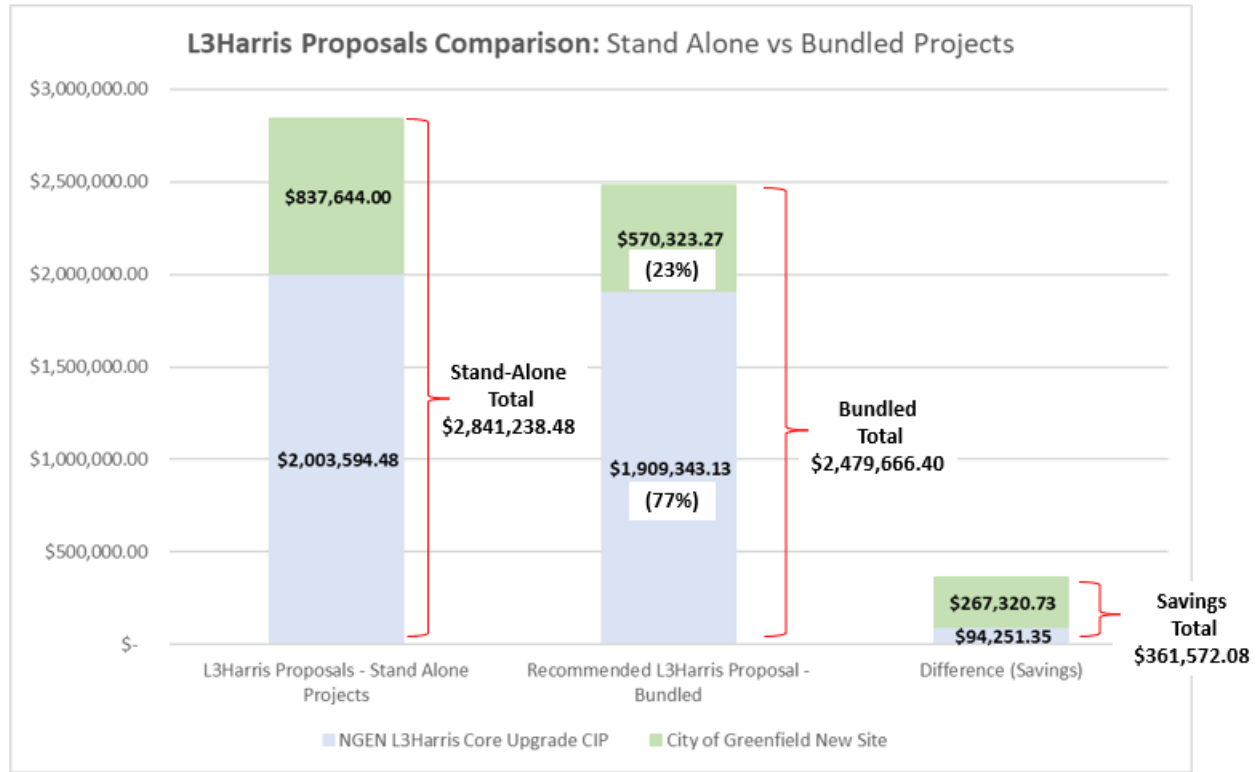


Exhibit B: 5-Year CIP Plan & Capital Fee (Original Approved Plan)

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 C: 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% Cmpltd 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)		