



Board Report

File #: 2024-0967, File Type: Contract

Agenda Number: 7.

CONSTRUCTION COMMITTEE NOVEMBER 20, 2024

SUBJECT: SYSTEMS ENGINEERING AND SUPPORT SERVICES CONTRACT

ACTION: APPROVE RECOMMENDATION

RECOMMENDATION

CONSIDER:

- A. APPROVING an increase in total authorized funding and executing Modification No. 12 to Contract No. AE47810E0128 with SECOTrans (Joint Venture of Hatch Associates Consultants, Inc., NBA Engineering Inc., Pacific Railway Enterprises Inc., and Ramos Consulting Services, Inc), for pending and future Task Orders to provide systems engineering and support services for Metro Rail and Bus Transit projects, in the Not-to-Exceed (NTE) amount of \$35,000,000, increasing the total contract authorized funding from an NTE amount of \$114,782,000 to an NTE amount of \$149,782,000, and exercising a one-year option extending the contract through April 25, 2026; and
- B. AUTHORIZING the Chief Executive Officer (CEO) or designee to execute individual Task Orders and Contract Modifications within the Board approved contract funding amount.

ISSUE

At its April 2018 meeting, the Board approved awarding a seven-year cost reimbursable fixed fee, Task Order (TO) based contract with three one-year options, to SECOTrans, a Joint Venture for Systems Engineering and Support Services (SESS) consulting. The approval required staff to return to the Board on a biennial basis as projects progressed and new project requirements were identified to update contract expenditure authorization. The funds previously authorized by the Board for FY25 will be exhausted by January 2025; therefore, the recommended increase will allow staff to complete scheduled work anticipated for FY25 and most of FY26.

BACKGROUND

The challenge presented by the simultaneous implementation of numerous projects is to ensure the integration and standardization of the systems elements within and across the current Metro system. Consistent development and design ensure that the required integration is achieved within civil and

electrical infrastructure, vehicles, control systems, communications, operations, maintenance, security, and training.

Prior to the procurement of the SESS, each project would use a different consultant for this work, resulting in inconsistent applications. This approach is no longer feasible or advisable with the large volume of projects now underway. With a single SESS design team on staff, the standardization of design, construction, and functionality of systems elements will keep Metro's long-term interest in system interoperability, maintainability, and safety at the forefront. A fully integrated network requires consistency of systems design and not a collection of potentially incompatible independent designs arising from separate projects. This approach has been implemented successfully in other transit agencies nationwide, and the benefits of full systems standardization include:

- Interoperability and efficient maintainability
- Improved commercial viability
- Reduced spares requirements
- Reduced training requirements
- Flexibility to adapt to changing circumstances

To date, staff has executed Task Orders and Task Order Modifications (MODs) totaling \$101,277,491.34 with \$13,504,508.66 in authorized funding remaining. Upon Board approval, Staff would execute a Contract Modification to exercise the one-year option and extend the Contract end date to April 25, 2026. Examples of projects supported by this contract include Metro Operational Simulation Analyses, Metro Rail Operations Control and Bus Operations Control Centers (ROC/BOC), Metro G Line BRT Improvements, Westside D Line 1/2/3, East San Fernando Valley Light Rail Transit, Eastside Phase 2, and Southeast Gateway Line (SGL). Attachment A includes the procurement summary for this contract, and Attachment B includes a complete listing of the TOs and MODs executed since the beginning of the SESS contract. As indicated during initial approval, staff is now seeking additional funding authorization to support Systems Engineering, Measure R, and Measure M projects through most of FY26.

DISCUSSION

With the approval of Measure M, the ongoing implementation of the Measure R Program, and required State of Good Repair initiatives, staff have engaged a SESS consultant to provide a broad range of systems engineering design and related support services to supplement current Systems Engineering Department resources. Metro's capital program requires extensive resources with the ability to react quickly to a wide range of complex technical issues. With a strong core staff located in Los Angeles County, the SESS is capable of applying and withdrawing resources as project workloads fluctuate over time. The SESS has the extensive experience and capability to support the complete project lifecycle, from the conceptual phase to final design and construction.

Due to the intensive system integration requirements and length of time needed to deliver major capital improvement projects, this contract has allowed Metro to efficiently and effectively augment Program Management staff where appropriate to ensure the proper project resources are available to Metro.

The SESS provides a single systems engineering team, and associated sub-specialties, with the necessary resources to assist in the planning, development, and delivery of Metro's aggressive schedule of projects for the next decade. Examples of systems engineering disciplines include traction electrification, overhead contact systems (OCS), train control, communications, supervisory control and data acquisition (SCADA), rail simulations, corrosion control, systemwide electrical, and other specialized disciplines.

The Systems Engineering Services estimated level of effort for the additional NTE amount of \$35,000,000 was developed using the current master schedule, construction estimates, and completed work to date from the Project Controls department. An estimated level of effort cost was determined for each project using past project costs, systems to civil project percentages along with historical rates. Depending on the type of transit project and the complexity, the percentages were derived from the overall construction costs to determine the systems construction and engineering costs. Systems Engineering level of effort costs were distributed across each fiscal year according to the master schedule.

In addition to the projects identified above and in Attachment B, staff expects the SESS to provide systems engineering services for current and future rail and bus transit projects, and other capital improvement projects, including, but not limited to, the following:

- Rail Operations Control and Bus Operations Control Centers (ROC/BOC)
- East San Fernando Valley Transit Corridor
- Eastside Phase 2 Extension
- Southeast Gateway Line Transit Corridor
- Sepulveda Pass Transit Corridor
- Vermont Transit Corridor
- G Line BRT Improvements
- Westside D Line Extension Section 1/2/3
- K Line North

DETERMINATION OF SAFETY IMPACT

The use of a consistent systems design process has a positive safety benefit during the construction and subsequent operations of Metro's Bus and Rail transit network.

FINANCIAL IMPACT

The requested NTE contract funding is based on the anticipated level of services that will be required for the remainder of FY25 and through most of FY26. Funding for the individual TOs is included in the Board approved life-of-project (LOP) budgets or annual budgets; therefore, this work is within the various project budgets.

Since this is a multi-year contract, project managers, cost managers, and the Chief Program Management Officer will be responsible for budgeting costs in future years.

Impact to Budget

Funding for TOs issued under this contract is provided by the specific project(s) utilizing the services. These projects are typically funded by a mix of federal, state, and local funds, including Measure R and Measure M. Where appropriate, certain Operations projects are funded with operating eligible funds.

EQUITY PLATFORM

The Systems Engineering and Support Services funds Conceptual Engineering, Preliminary Design and Specifications, Final Design, including Design Services During Construction of Transit Rail and Bus Projects for various Metro projects including Southeast Gateway Line, East San Fernando Valley Transit Corridor, and other Metro transit projects, including in and serving riders from Equity Focus Communities.

These services are essential for support and on time delivery of Metro projects across the greater Los Angeles area. All services supported by this contract are centered on avoiding project delays and promoting cost saving measures to effectively deliver the projects with minimal impacts and provide enhanced mobility and regional access to underserved populations.

SECOTrans Joint Venture made an overall 15% DBE commitment for this contract and, based on payments reported, is exceeding its commitment by 13.53% with a total DBE participation of 28.53%. The DEOD summary is included as Attachment C.

IMPLEMENTATION OF STRATEGIC PLAN GOALS

The Systems Engineering Support Services contract supports the following strategic goals: Strategic Goal 1: Provide high-quality mobility options that enable people to spend less time traveling. Through this contract, the systems engineering consultant team will continue to implement innovative and state of the art engineering solutions to provide efficient mobility options throughout the LA County area. Strategic Goal 2: Deliver outstanding trip experiences for all users of the transportation system. The contract ensures the timely delivery and implementation of systems that provide essential communications, security, comfort, and reliability to all users. These factors are important areas of concern identified by Metro management and annual customer surveys. Strategic Goal 5: Provide responsive, accountable, and trustworthy governance within the Metro organization. With a regular biennial authorization update to the Board, Metro staff will offer transparency and accountability of Systems related work involved in the Measure M program and other major capital projects.

ALTERNATIVES CONSIDERED

The Board may choose to reject the recommendation and request staff to re-procure these services through an RFP, choose to authorize an alternative amount, or approve an alternative term of financial authorization. Staff does not recommend these alternatives. The use of a qualified SESS consultant has allowed the agency to secure highly technical expertise without the necessary increase in Metro's long-term labor costs. Further, by providing for an extended term contract, the Board has afforded staff the resources that seek to provide an integrated and consistent network

design that serves Metro's interests. Finally, by limiting the funding authorization through most of FY26, greater accuracy of project scope and cost requirements are provided to the Board on a regular basis.

NEXT STEPS

Upon Board approval, staff will execute Modification No. 12 to Contract No. AE47810E0128 and specific task orders will be issued on an as needed basis.

ATTACHMENTS

Attachment A - Procurement Summary

Attachment B - Task Order Log

Attachment C - DEOD Summary

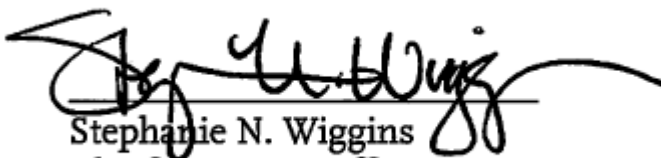
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Stephanie N. Wiggins
Chief Executive Officer

PROCUREMENT SUMMARY

SYSTEMS ENGINEERING AND SUPPORT SERVICES (SESS)

1.	Contract Number: AE47810E0128			
2.	Contractor: SECOTrans (Joint Venture of Hatch Associates Consultants, Inc., NBA Engineering Inc., Pacific Railway Enterprises Inc., and Ramos Consulting Services, Inc.)			
3.	Mod. Work Description: Increase the Contract Not-to-Exceed funding amount.			
4.	Work Description: Systems Engineering and Support Services			
5.	The following data is current as of: October 2, 2024			
6.	Contract Completion Status:		Financial Status:	
	Award Date:		Board Approved NTE Amount:	
	April 26, 2018		\$114,782,000.00	
	Notice to Proceed (NTP):		Pending Funding (including this action):	
	N/A		\$35,000,000	
	Original Completion Date:		Value of Task Orders and Mods. Issued to Date:	
	April 25, 2025		\$101,277,491.34	
	Current Est. Completion Date:		Remaining Board Approved Amount:	
	April 25, 2025		\$13,504,508.66	
7.	Contract Administrator: Chelsea Bajorunas		Telephone Number: (213) 922-5344	
8.	Project Manager: Ron Tien		Telephone Number: (213) 418-3445	

A. Contract Action Summary

On April 26, 2018, the Board of Directors approved award of a cost-plus fixed fee Task Order based Contract No. AE47810E0128 for Systems Engineering and Support Services to SECOTrans (Joint Venture), with the total authorized funding amount Not-to-Exceed (NTE) \$28,932,000. The purpose of this contract is to supplement Metro's Engineering Department resources in providing engineering services for projects in varying stages of conceptual design, preliminary engineering, final design, bidding for construction, and design support during construction (DSDC), including the following: program management, quality, and computer aided design and drafting (CADD); design services concerning train control, communications systems, traction power, and overhead catenary systems (OCS); operational runtime simulation and modeling, corrosion control, system integration, facilities and system-wide electrical, facilities mechanical, facilities plumbing, and facilities fire protection. The base term for the Contract is seven (7) years, plus three (3), one-year options, to be exercised at Metro's sole discretion, pending Board approval. Subsequently, the Board has approved additional funding in the amounts listed below:

- \$15,000,000 for the ROC/BOC project, on February 27, 2020;
- \$22,500,000 for FY21 on May 28, 2020;

- \$28,850,000 for FY23 / FY24 on June 23, 2022; and
- \$19,500,000 for FY25 on November 30, 2023.

This action is to increase the authorized funding for this Contract in the amount of \$35,000,000, increasing the total authorized funding from \$114,782,000 to a NTE amount of \$149,782,000 through FY25 and most of FY26.

There have been 32 Task Orders and modifications executed to date, totaling \$101,277,491.34. Furthermore, eleven (11) Administrative Contract Modifications have also been executed to date.

The total contract amount expended will be the aggregate value of all Task Orders issued to the SESS Consultant through the term of the contract.

B. Cost/Price Analysis

The negotiated cost and fixed fee amount or lump sum price for future Task Orders will be determined to be fair and reasonable based upon fact finding, technical evaluation, independent cost estimate, cost analysis, and negotiations, before issuing the Task Order authorizing the work to the SESS Consultant. Task Orders will be processed in accordance with Metro's Acquisition Policy and Procedures.

ATTACHMENT B**TASK ORDER LOG****SYSTEMS ENGINEERING SUPPORT SERVICES (SESS) / CONTRACT NO. AE47810E0128**

Mod/Task Order (TO) No.	Description	Status (Approved or Pending)	Date	Task Order Amount Issued Including Mods	Est. Adjustments Pending for TO Close-Out¹	Pending & Future TOs/Mods
N/A	Initial Authorized NTE Funding \$28,932,000	Approved	4/26/18	---	---	---
E0128-TO-016	Board of Directors Authorized NTE \$15,000,000 for TO-016	Approved	2/27/20	---	---	---
N/A	Board of Directors Authorized NTE \$22,500,000 for FY 2021	Approved	5/28/20	---	---	---
N/A	Board of Directors Authorized NTE \$28,850,000 for FY 2023 / 2024	Approved	6/23/22	---	---	---
N/A	Board of Directors Authorized NTE \$19,500,000 for FY25	Approved	11/30/23	---	---	---
Approved Task Orders and Task Order Modifications						
E0128-TO-001	Systems Engineering Support for Crenshaw Project	Approved	7/9/18	\$14,085,003.40	\$(31,227.00)	---
E0128-TO-002	Program-wide System Engineering	Approved	7/27/18	\$10,591,818.43	\$(42,512.65)	---

	Support Services for Systems Engineering Group					
E0128-TO-003	Overhead Contact Systems (OCS) Support for Maintenance of Wayside Engineering	Approved	9/11/18	\$603,041.25	\$(69,847.00)	---
E0128-TO-004	System-wide Electrical Support for Rail and Bus Projects	Approved	9/11/18	\$145,244.00	---	---
E0128-TO-005	Crenshaw Project Design Services During Construction	Approved	9/12/18	\$161,992.00	---	---
E0128-TO-006	Rail Systems Engineering Support for New Blue	Approved	10/3/18	\$4,688,560.70	---	---
E0128-TO-007	West Santa Ana Branch Systems Support	Approved	10/1/18	\$120,666.74	---	---
E0128-TO-008	System-wide Operations and Maintenance Plan	Approved	10/10/18	\$798,543.25	\$(77,672.00)	---
E0128-TO-009	Division 20 Portal Widening Turnback Project Systems Engineering Support	Approved	10/30/18	\$14,803,766.35	\$(40,017.00)	---
E0128-TO-010	West Santa Ana Branch (WSAB) Project Conceptual Engineering	Approved	11/16/18	\$2,889,788.57	---	---
E0128-TO-011	East San Fernando Valley (ESFV)	Approved	12/3/18	\$9,673,862.55	\$(58,686.00)	---

	Conceptual Engineering					
E0128-TO-012	Metro Blue Line Track and OCS Refurbishment	Approved	3/21/19	\$1,528,845.32	---	---
E0128-TO-013	Metro Systems Support for Green Line/Crenshaw Operations	Approved	4/10/19	\$249,069.86	---	---
E0128-TO-014	Metro Red/Purple Line and Regional Connector Operational Simulation Support	Approved	4/25/19	\$754,295.85	---	---
E0128-TO-015	Airport Metro Connector Engineering Support	Approved	9/12/19	\$5,773,816.00	---	---
E0128-TO-016	Rail Operations Center (ROC) / Bus Operations Center (BOC) Architectural and Engineering Systems Design Services	Approved	4/9/20	\$46,957.87	---	---
E0128-TO-017	Centinela Grade Separation Conceptual Engineering	Approved	11/4/19	\$1,007,088.37	---	---
E0128-TO-018	Metro Gold Line Foothills 2B Extension Systems Engineering Support	Approved	4/16/20	\$795,007.00	---	---
E0128-TO-019	Metro Gold Line Eastside Phase 2 Conceptual Engineering	Approved	4/24/20	\$2,102,071.00	---	---
E0128-TO-021	Systems Engineering	Approved	1/29/20	\$5,210,268.00	---	---

	DSDC Support for Purple Line Extension Sec. 1					
E0128-TO-022	Systems Engineering DSDC Support for Regional Connector Project	Approved	4/24/20	\$3,692,599.00	---	---
E0128-TO-023	Metro C Line (Formerly Green Line) Extension to Torrance Conceptual Engineering	Approved	12/08/20	\$3,018,151.00	---	---
E0128-TO-024	Purple Line Extension Section 3 Systems Engineering Support Services	Approved	12/29/20	\$4,045,243.81	---	---
E0128-TO-025	Systems Engineering Design Services During Construction Support for Metro Center Project - FY21 Level of Effort	Approved	3/18/21	\$292,399.02	---	---
E0128-TO-026	Purple Line Extension Section 2 Systems Engineering Support Services	Approved	9/17/21	\$2,062,885.00	---	---
E0128-TO-027	Metro G Line (formerly Orange Line) Systems Engineering Support	Approved	7/20/21	\$1,244,718.00	---	---
E0128-TO-028	Sepulveda Transit Corridor Projects	Approved	8/10/22	\$633,009.00	---	---

	Systems Engineering Support					
E0128-TO-029	West Santa Ana Branch Systems Engineering Support	Approved	11/9/22	\$4,798,491.00	---	---
E0128-TO-030	Rail Operations Control Center (ROC) / Bus Operations Control Center (BOC) Feasibility Study	Approved	10/3/22	\$3,597,321.00	---	---
E0128-TO-031	Metro Bungalow A Replacement Project	Approved	9/5/23	\$850,000.00	---	---
E0128-TO-032	Metro Operations Simulations Support	Approved	12/5/23	\$79,354.00	---	---
E0128-TO-033	K Line TPSS – Systems Engineering Support Services	Approved	3/13/2024	\$933,614.00		
Approved Contract Modifications						
EO128-00-MOD-00001	Update to Advanced Cost Agreement	Approved	9/6/18	\$0.00	---	---
EO128-00-MOD-00002	Updates to Advanced Cost Agreement	Approved	12/14/18	\$0.00	---	---
EO128-00-MOD-00003	Revise Spec. Section CP-04 Payment & Invoicing Part C.1 - Invoicing	Approved	1/11/19	\$0.00	---	---
EO128-00-MOD-00004	Direct Hourly Labor Rates Adjusted for 2019	Approved	2/6/19	\$0.00	---	---
EO128-00-MOD-00005	Updates to Contract: Form of Contract, ACA Rates, Add/Delete	Approved	4/20/21	\$0.00	---	---

	Subconsultants and Corrections					
EO128-00-MOD-00006	Updates to Contract: Form of Contract, ACA Rates, New Positions and Delete Subconsultant FNC	Approved	3/14/22	\$0.00	---	---
EO128-00-MOD-00007	Updates to Form of Contract and Special Provisions Section	Approved	11/10/22	\$0.00	---	---
EO128-00-MOD-00008	Updates to Contract: Administrative Modification, Updates to Exhibit 1 – Advanced Const Agreement	Approved	5/4/23	\$0.00	---	---
EO128-00-MOD-00009	Extend Period of Performance for Multiple TOs	Approved	6/2/23	\$0.00	---	---
EO128-00-MOD-00010	Updates to Exhibit 1- Advanced Cost Agreement & Contract	Approved	3/19/24	\$0.00		
EO128-00-MOD-00011	Extend Period of Performance for Multiple TOs & Consultant Name Change	Approved	5/20/24	\$0.00		
	Subtotal Approved TOs and Contract Mods			\$101,277,491.34		
Pending Task Orders and Task Order Mods						
TBD	Future Anticipated Task Orders for FY25/FY26	Pending	TBD	---	---	\$35,000,000

	Subtotal Pending TOs and TO Mods					\$35,000,000
	Total Authorized Funding for Contract	\$114,782,000	---	---	---	---
	Task Orders Approved	---	---	\$101,277,491.34	---	---
	Adjustments Pending TO Close-Out	---	---	---	(\$319,961.65)	---
	Future / Pending TOs and TO Mods	---	---	---	---	\$35,000,000
	Total Contract NTE Amount Plus Funding Needed for Future Anticipated Task Orders through FY26	---	---	---	---	\$149,782,000

NOTES:

¹ Task Orders and Task Order Modifications will be closed-out and unused Not-To-Exceed (NTE) authorized amount will be credited back to the Project. The Authorized NTE for the Task Order will be adjusted to actuals expended.

BOARD ACTIONS	
Board Approved Funding – Current	\$114,782,000
This Board Action	\$35,000,000
New Approved Funding Amount	\$149,782,000

DEOD SUMMARY

SYSTEMS ENGINEERING AND SUPPORT SERVICES CONTRACT / AE47810E0128

A. Small Business Participation

SECOTrans (Joint Venture of Hatch Associates Consultants, Inc., NBA Engineering Inc., Pacific Railway Enterprises, Inc., and Ramos Consulting) made an overall 15% Disadvantaged Business Enterprise (DBE) commitment on this Task Order (TO) based contract. To-date thirty-two (32) TO's have been awarded to SECOTrans. The project is 75% complete and the current overall DBE participation is 28.53%, exceeding the commitment by 13.53%.

SECOTrans reported that it has not engaged Enabled Enterprises LLC to date on the contract because work in their specific scope has not been requested by Metro. Additionally, SECOTrans reported that Birdi Systems was selected to provide specialized services on TO-16, but the task order was subsequently cancelled by Metro, as confirmed by the Metro's Project Manager. SECOTrans stated they anticipate both firms to be utilized in the future, when their respective scopes are requested by Metro.

Small Business Commitment	15.00% DBE	Small Business Participation	28.53% DBE
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	DBE Subcontractors	Ethnicity	% Committed	Current Participation¹
1.	Arakelyan Drafting Services	Caucasian Female	TBD	0.34%
2.	Destination Enterprises, Inc.	Caucasian Female	TBD	2.08%
3.	Enabled Enterprises, LLC	Asian-Pacific American	TBD	0.00%
4.	Fariba Nation Consulting	Caucasian Female	TBD	0.36%
5.	Interactive Elements Incorporated	Caucasian	TBD	0.28%
6.	Intueor Consulting, Inc	Subcontinent Asian American	TBD	2.26%
7.	NBA Engineering, Inc. (JV Partner)	Caucasian Female	TBD	5.27%
8.	Pacific Railway Enterprises, Inc. (JV Partner)	Caucasian Female	TBD	1.25%

9.	Purcell Electrical Professional Corporation (Voluntarily Withdrew)	Caucasian Female	TBD	0.00%
10.	Ramos Consulting Services, Inc. (JV Partner)	Hispanic American	TBD	9.16%
11.	ROMAR7 LLC	Asian-Pacific American	TBD	0.17%
12.	Triunity, Inc.	Black American	TBD	6.53%
13.	UNICO Engineering, Inc.	Hispanic American	TBD	0.79%
14.	Birdi Systems, Inc.	Subcontinent Asian American	Added	0.00%
15.	Systems Consulting, LLC	Black American	Added	0.04%
Total			15.00%	28.53%

¹Current Participation = Total Actual amount Paid-to-Date to DBE firms ÷ Total Actual Amount Paid-to-date to Prime.

B. Living Wage and Service Contract Worker Retention Policy Applicability

The Living Wage and Service Contract Worker Retention Policy is not applicable to this modification.

C. Prevailing Wage Applicability

Prevailing wage is not applicable to this modification.

D. Project Labor Agreement/Construction Careers Policy

Project Labor Agreement/Construction Careers Policy is not applicable to this Contract. PLA/CCP is applicable only to construction contracts that have a construction related value in excess of \$2.5 million.



Board Item 2024-0967

SYSTEMS ENGINEERING SUPPORT SERVICES CONTRACT



Metro Los Angeles County Metropolitan Transportation Authority

Board item 2024-0967

RECOMMENDATION

CONSIDER:

- APPROVING an increase in total authorized funding and executing Modification No. 12 to Contract No. AE47810E0128 with SECOTrans (Joint Venture of Hatch Associates Consultants, Inc., NBA Engineering Inc., Pacific Railway Enterprises Inc., and Ramos Consulting Services, Inc), for pending and future Task Orders to provide systems engineering and support services for Metro Rail and Bus Transit projects, in the Not-to-Exceed (NTE) amount of \$35,000,000, increasing the total contract authorized funding from an NTE amount of \$114,782,000 to an NTE amount of \$149,782,000, and exercising a one-year option extending the contract through April 25, 2026; and
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Board item 2024-0967

- Consultant provides specialized systems engineering support for Metro's projects from design through testing and pre-revenue service.
- Singular team is used to promote consistency of systems on Metro projects for maintainability, interoperability, safety, reduction of lifecycle costs and training.
- Consultant is a Joint Venture with 4 primes (3 of which are DBEs) and 19 subconsultants. Current DBE goal of 15% is being exceeded at an actual rate of 28.53%.