

**Caltrain
Electrification
August JPB Board
Items 6-8
(SCADA, B&G, AECOM)**

**JPB Finance Committee
July 25, 2022**



6. Traction Power SCADA Change Order no.5 and Contract Time Extension

Staff and CMB Recommend the JPB Board Action

July 20, 2022 CMB Approved :

- Execution of change order to WABTEC RAILWAY ELECTRONICS for a Traction Power Supervisory Control and Data Acquisition (SCADA) System under Contract No. 17-J-S-061 and Completion of TP SCADA as part of PCEP Program
- Approve an increase to the original Contract No. 17-JS-061 with Wabtec Railway Electronics, Inc. (“Wabtec”), in an amount not to exceed \$1,036,122 for completion of Traction Power SCADA System.
- Authorize the Acting Executive Director or designee to execute the contract amendment in a form approved by legal counsel, with full implementation of the agreed upon Funding Partners’ Oversight Protocol.

TP SCADA Change Order No.5 and Time Extension

■ Background:

- Contract No. 17-J-S-61 was executed with ARINC on August 3, 2017 (Resolution No. 2017-40) for TP SCADA for a total not-to-exceed amount of \$3,446,917, to allow the JPB to implement the TP SCADA as the key element of the electrified system.
- Since project inception through June 2022, four change orders have been executed within the existing contract authority for modification of the TP SCADA system due to Segment 4 field points changes.
- PCEP global settlement in 2021 and rebaseline schedule for the project to enter revenue service in Sept 2024 while Design Builder continues to build out the remaining segments. The integration of Traction Power SCADA will be ongoing through system acceptance.
- Caltrain Team started negotiation with ARINC since March 2022 and concluded change order and time extension. Caltrain Team and legal are in the process of finalizing terms and conditions with Wabtec due to the recent acquisition.

TP SCADA Change Order No.5 and Time Extension

- **TP SCADA Contract Change Order No.5:**
 - Reimburses ARINC for escalations due to schedule extension beyond ARINC's control
 - Credit 800 hours of on-site support which Caltrain no longer requires
 - Adds T&M technical support between the completion of the Site Acceptance Test and the start of revenue service for as needed technical support, and anticipates future points and screen display changes
 - T&M account will be monitored and reported monthly with NTE amount of \$1,092,194
 - Change start date of 1,000-hour availability test to revenue service
 - One Year Warranty will start upon Final Acceptance, which is no later than December 2024.
 - 10% Retention is added to this change order.

SCADA Change Order No.5 and Time Extension

- Change Order No. Cost and Negotiation Summary:**

	Initial Submission 3/4/2022	5/4/2022 Negotiation*	Final Value*
Escalation for Site Acceptance Test (2019 to May 2022)	\$2,168.84	\$2,168.84	\$2,168.84
Escalation for Final Acceptance (2019 to 2024)	\$26,738.21	\$26,738.21	\$26,738.21
Escalation for Warranty (2020 to 2025)	\$13,631.52	\$13,631.52	\$13,631.52
T&M support (Aug 2022- 2024)	\$1,312,338	\$1,009,287	\$1,092,194
Credit for unused site support hours	\$(99,129)	\$(99,129)	\$(99,129)
Total			\$1,036,122

TP SCADA Change Order No.5 and Time Extension

- TP SCADA Contract Authority Summary:

Description	Amount (US\$)
Original ARINC Contract Value (August 2017) – Reso 2017-40	\$3,446,917
Change Order Authority (15% of ARINC Contract) - Reso 2017-40	\$517,038
Reso 2021-31	\$230,000
Reso 2021-60	\$249,416
Existing Wabtec/ARINC Contract Authority (A)	\$4,488,371
Executed Change Orders (CCO-001, 002,003, 004)	\$1,009,501
Executed Original Contract Value	\$3,446,917
Contract time extension and additional Point Changes	\$1,036,122
Total Contract Amount (B)	\$5,492,540
Contract Authority Shortfall (A-B)	(\$1,004,169)

PCEP Program Contingency Drawdown (as June 2022)

PCEP June 2022	Total (A+B)	BBII Risk Pool (A)	Program Contingency (B)
PCEP Contingency	\$90,000,088	\$50,000,000	40,000,088
Drawn Contingency	(\$888,825)	(\$756,460)	(\$132,365)
Remaining Contingency	\$89,111,263	\$49,243,540	39,867,723
CMB Approved Changes	(\$2,804,224)	(\$1,768,102)	(1,036,122)
Remaining Contingency (After August Board Approval)	\$86,307,039	\$47,475,437	38,831,601

7. B&G CalMod Safety and Security Contract Capacity Increase & Extension

B&G CalMod Safety and Security Contract Capacity Increase & Extension

■ Background

- In 2018, Resolution No. 2018-50, the JPB Board awarded a contract to B&G for on-call safety and security advisory services for the CalMod Program for a total not-to-exceed amount of \$4,600,000 for a five-year term.
- The CalMod Program has established a re-baselined schedule with the Electrification design-build contractor Balfour Beatty Infrastructure Inc. (“BBII”) as a result of the global settlement in 2021. The re-baselined schedule and global settlement was approved by the Board on December 6, 2021. The time extension and contract capacity increase are needed for B&G to continue to provide safety and security professional services through project completion.
- B&G provides safety and security advisory and support service with a focus on construction and systems safety for CalMod, and the Service includes:
 - Construction and systems safety and security support, safety and security plan preparation, safety assurance, hazard management program, safety certification and training, emergency response training tasks, etc. for CalMod delivery.



B&G CalMod Safety and Security Contract Capacity Increase & Extension

- **An increase of Contract Capacity in the amount of \$4,432,182 from \$5,060,000 to \$9,492,182.**
 - Additional field safety coverage for night shifts
 - Special safety task forces to address incidents, safety standdown training
 - Additional coverage to support developing project needs as required during the testing phases of the project
 - A contract term extension from December 31, 2023 through December 31, 2024 to bring the project to completion.

B&G CalMod Safety and Security Contract Capacity Increase & Extension

Description	Amount (US\$)
Original B&G Contract Amount – Reso 2018-50	\$4,600,000
Contract Authority Contingency @ 10%	\$460,000
Total Current B&G Contract Authority (A)	\$5,060,000
B&G Safety and Security Professional Service Cost	US\$
B&G Cost Inception to Date (through June 2022)	(4,403,868)
B&G Service Cost (July 2022 – June 2023)	(2,477,993)
B&G Service Cost (July 2023 – June 2024)	(1,924,659)
B&G Service Cost (July 2024 – December 2024)	(685,662)
Total B&G Safety and Security Service Cost at Completion	(9,492,182)
Total Contract Amount at Completion (B)	\$9,492,182
Contract Authority Shortfall (A-B)	(4,432,182)

B&G CalMod Safety and Security Contract Capacity Increase & Extension

- There is no impact to PCEP Adopted Program Budget of 2.44 billion
- B&G CalMod Safety and Security Service Cost is included in overall PCEP Program Management Oversight Cost which is reported monthly in PCEP Monthly Program Report.
- Increasing the contract total will not obligate the JPB to purchase any specific level of service from B&G as work directives are negotiated and issued on an as-needed basis.
- The CMB Approved this contract capacity increase during July 2022 CMB meeting

8. AECOM Program Management Support Service Contract Capacity Increase & Extension

AECOM Program Management Support Service Contract Capacity Increase & Extension

■ Background

- Pursuant to Resolution No. 2014-04, the Board awarded a contract to AECOM for a three-year base term in the amount of \$10,167,109, with up to two, 2-year option terms for a total not-to-exceed amount of \$10,227,123, and contingency authority of up to 15 percent.
- The global settlement and re-baselined schedule was approved by the Board on December 6, 2021. CalMod Program completion date has been extended through December 2024 including project close out efforts after the revenue service date of September 2024. The time extension and contract capacity increase are needed for AECOM to continue to provide safety and security professional services through project completion.
- AECOM provides program management support services: Program planning and scheduling, program project controls, program change management, program cost estimating, program risk management, quality assurance, and program document controls.

AECOM Program Management Support Service Contract Capacity Increase & Extension

- **\$11,943,960 from \$36,361,332 to \$48,305,293 in contract authority:**
 - A dedicated Program Management Director to manage all PM functions
 - A need to hire additional schedulers, cost analysts, and contract administrators
 - A need to hire additional document controls specialist and document control lead
 - A need to hire a field Quality Assurance representative
 - A contract term extension from February 28, 2023 through December 31, 2024 to bring the project to completion.

AECOM Program Management Support Service Contract Capacity Increase & Extension

Description	Amount (US\$)
Original AECOM Contract Amount – Reso 2014-14	\$10,167,109
Contract Authority increase Reso 2016-60	\$5,500,00
Option Period one (02/01/17 - 01/31/19)	\$5,113,560
Option Period two (02/01/19 - 01/31/21)	\$5,113,563
Contract Authority Contingency @ 15%	\$3,117,100
Contract Authority increase Reso 2020-28	\$7,350,000
Total Current AECOM PM Service Contract Authority (A)	\$36,361,332
AECOM PM Service Cost	US\$
PM Service Cost Inception To Date (through June 2022)	(28,680,271)
PM Service Cost (July 2022 – June 2023)	(6,022,741)
PM Service Cost (July 2023 – June 2024)	(6,046,372)
PM Service Cost (July 2024 – December 2024)	(1,816,074)
Total PM Service Cost at Completion	(48,305,293)
Total Contract Amount at Completion (B)	\$48,305,293
Contract Authority Shortfall (A-B)	\$(11,943,960)

AECOM Program Management Support Service Contract Capacity Increase & Extension

- There is no impact to PCEP Adopted Program Budget of 2.44 billion.
- AECOM CalMod Program Management Support Service Cost is included in overall PCEP Program Management Oversight Cost which is reported monthly in PCEP Monthly Program Report
- Increasing the contract total will not obligate the JPB to purchase any specific level of service from AECOM as work directives are negotiated and issued on an as-needed basis.
- The CMB Approved this contract capacity increase during July 2022 CMB meeting

Q&A

- **Questions / Comments?**

FOR MORE INFORMATION

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