

***Contract Amendment Extended Series 2
LRV Engineering Inspection services by
Hatch Associates Consultants Inc.***

M2024-13

System Expansion Committee

03/14/2024



Why we are here (Motion M2024-13)

- Seek approval to **modify contract with Hatch Associates Consultants Inc (fka LTK Engineering)** to:
 - 1) **extend engineering consulting and inspection services for the 152 Series 2 Light rail vehicles (LRVs)** in the amount of \$5,499,667 with a 10% contingency of \$549,966 totaling **\$6,049,633**.
 - 2) **support the purchase and delivery of 10 additional Series 2 LRVs** from Siemens, contingent on Board approval of Motion No. M2024-14, in the amount \$3,509,917, with a 10% contingency of \$350,992 totaling **\$3,860,909**.
- Total contract modification from this action will be \$9,910,542, including a 10 percent contingency.
- After this modification, new total authorized not-to-exceed contract amount will be \$30,853,185.

Background – engineering services contract

- Contract has not been amended for Series 2 since 2019 when the level of effort to support manufacturing and acceptance test oversight for all 112 LRVs needed for LLE, FWLE, DRLE, and ELE was authorized.
- Delays in onsite commissioning during the qualification phase and pandemic led to an approximately two-year change in project completion milestone.
- Series 2 LRV Fleet Expansion Project baseline budget and schedule was amended accordingly last November (R2023-35).
- **The first part** of today's action secures support resources for longer duration of the project and additional expertise required to manage acceptance of the 152 car order.
- **The second part is *contingent upon*** approval of a contract modification with Siemens Industry, Inc. to purchase 10 additional LRVs (M2024-14).

***Contract Modification with Siemens
Industry Inc. for 10 Additional Light
Rail Vehicles and Spare Parts***

M2024-14

System Expansion Committee

03/14/2024



Why we are here (Motion M2024-14)

- Seek approval to **modify contract with Siemens Industry, Inc. to:**
 - 1) Purchase 10 additional LRVs and additional spare parts.
 - 2) Increase contract contingency.
- The negotiated price of 10 LRVs is approximately \$66M pre-tax, as was expected when Board amended the Series 2 project budget in November.
- Change order includes options for up to 6 more LRVs if authorized by September 2024.
- **Contract modification from this action will be \$78M, including \$2M contingency.**
- After this modification, new total authorized not-to-exceed contract amount will be \$763,491,565.

Background – ST2 Service Planning

- Due to **longer run times, and the need for higher LRV spare ratio** compared to assumptions made in ST2 and ST3 Plans, there are challenges to meet service levels and ridership demand in 2026.
- Series 3 LRVs are not projected to start entering revenue service in until 2032.
- Accelerating the purchase of 10 LRVs from Series 3 (already planned and funded) to Series 2 contract with Siemens will help ease service level challenges.
- Strategy envisioned for managing long-term availability and obsolescence issues include increasing the hardware spares, and software services for technology items.
- Key constraint for the quantity of accelerated LRV purchase is storage space.

Total Planned LRV Fleet: Series 1 + Series 2 + Series 3

LRV Series	Status	Current Plan	Accelerated Approach
1 - Kinkisharyo	In service	62	62
2 - Siemens	In service / In delivery thru 2025	152	162
Subtotal (fleet available until Series 3 cars are available)		214	224
3 - TBD	To be procured 2030+	246	236
Total (planned fleet to support ST3 buildout)		460	460

This action:

- ACCELERATES** the purchase of 10 LRVs from Series 3 to Series 2 project and makes them available to carry passengers 4-5 years ahead of Series 3 LRVs.
- DOES NOT** increase the overall size of already funded long-term fleet.

Next Steps, if Board Approves Both Actions

1. Exercise a sole-source change order with Siemens Industry, Inc. for the additional 10 LRVs, and purchase additional spare parts.
2. Amend Sound Transit's contract with Hatch Associates Consultants, Inc. for additional LRV Engineering and Inspection services.
3. Local funding is assumed for the 10 additional LRV purchase, and support services.

Thank you.



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