



COMMISSION SPECIAL MEETING AGENDA

April 18, 2023

To be held virtually via MS Teams and in person at the Seattle-Tacoma International Airport – Conference Center, International Room, located at 17801 International Blvd, Seattle WA, Mezzanine Level. You may view the full meeting live at meetings.portseattle.org. To listen live, call in at +1 (425) 660-9954 or (833) 209-2690 and Conference ID 663 369 496#

ORDER OF BUSINESS

10:30 a.m.

1. CALL TO ORDER

2. **EXECUTIVE SESSION** – *if necessary, pursuant to RCW 42.30.110 (executive sessions are not open to the public)*

▶ 12:00 noon – PUBLIC SESSION

Reconvene or Call to Order and Pledge of Allegiance

3. **APPROVAL OF THE AGENDA** (*at this time, commissioners may reorder, add, or remove items from the agenda*)

4. SPECIAL ORDERS OF THE DAY

5. EXECUTIVE DIRECTOR'S REPORT

6. COMMITTEE REPORTS

7. **PUBLIC COMMENT** – *procedures available online at <https://www.portseattle.org/page/public-comment-port-commission-meetings>*

During the regular order of business, those wishing to provide public comment on items related to the conduct of the Port will have the opportunity to:

1) Deliver public comment via email: All written comments received by email to commission-public-records@portseattle.org will be distributed to commissioners and attached to the approved minutes.

2) Deliver public comment via phone or Microsoft Teams conference: To take advantage of this option, please email commission-public-records@portseattle.org with your name and the topic related to the conduct of the Port you wish to speak to by 9:00 a.m. PT on Tuesday, April 18, 2023. (**Please be advised that public comment is limited to topics related to the conduct of the Port only.**) You will then be provided with instructions and a link to join the Teams meeting.

3) Deliver public comment in person by signing up to speak on your arrival to the physical meeting location: To take advantage of this option, please arrive at least 15 minutes prior to the start of any regular meeting to sign-up on the public comment sheet available at the entrance to the meeting room to speak on items related to the conduct of the Port.

For additional information, please contact commission-public-records@portseattle.org.

8. **CONSENT AGENDA** (*consent agenda items are adopted by one motion without discussion*)

8a. Approval of Minutes of the Regular Meeting of April 11, 2023. **(no enclosure)**

8b. Authorization for the Executive Director to Increase Project Budget by \$4,639,000, for a Revised Total Budget of \$14,656,000; to Execute a Professional Services Contract for Design Services; to Prepare Design and Construction Bid Documents; to Advertise and Execute a Major Works Construction Contract for the Installation of the Secondary Air Compressor Portion of this Project; and to Utilize Port Crews for Pre-Construction Activities and Abatement, for an Amount Requested of \$3,500,000, and an Estimated Total Project Cost Not-to-Exceed \$14,656,000, for the Deaerator and Condensate System Upgrades Design and Construction Project at the Central Mechanical Plant. (CIP# C801223) **(memo and presentation enclosed)**
(p.4)

8c. Authorization for the Executive Director to Increase the Project Scope and Associated Budget by \$1,000,000 for a Final Revised Total Budget of \$15,000,000 and to Purchase One Passenger Loading Bridge and Associated Equipment for Gate B11 at Seattle-Tacoma International Airport. **(memo enclosed)**
(CIP# C801180/CIP# C801308) **(p.17)**

10. NEW BUSINESS

10a. Order No. 2023-05: An Order of the Port of Seattle Commission to Develop a Language Access Policy and Plan that Ensures Inclusion of Non or Limited English Speakers, Including those who are Hard of Hearing or Deaf, in the Use of Port Services and Facilities; and the Portwide Implementation of a Plan Directing Divisions with Publicly-Facing Public Services to Offer Language Assistance Services Including Translation and Interpretation. **(order and presentation enclosed)** **(p.18)**

11. PRESENTATIONS AND STAFF REPORTS

11a. Sustainable Century and Fly Quiet Awards. **(memo and presentation enclosed)** **(p.26)**

12. QUESTIONS on REFERRAL to COMMITTEE and CLOSING COMMENTS

13. ADJOURNMENT

**8a. Minutes for the April 11, 2023, Commission Meeting
Will be Distributed Under Separate Cover**



COMMISSION
AGENDA MEMORANDUM

Item No. 8b

ACTION ITEM

Date of Meeting April 18, 2023

DATE: April 6, 2023

TO: Stephen P. Metruck, Executive Director

FROM: Keri Stephens, Director, Aviation Facilities and Capital Programs
Eileen Francisco, Director, Aviation Project Management

**SUBJECT: Deaerator (DA) and Condensate System Upgrades (CIP# C801223) –
Design and Construction Authorization**

Amount of this request: \$3,500,000

Total estimated project cost: \$14,656,000

ACTION REQUESTED

Request Commission authorization for the Executive Director to (1) increase the project budget by \$4,639,000, for a revised total budget of \$14,656,000; (2) execute a professional services contract for design services; (3) Prepare design and construction bid documents for the Deaerator and Condensate System upgrade project; (4) Advertise and execute a major works construction contract for the installation of the secondary air compressor portion of this project; (5) utilize Port crews for pre-construction activities and abatement. The amount of this request is \$3,500,000 for an estimated total project cost not to exceed \$14,656,000.

EXECUTIVE SUMMARY

The Central Mechanical Plant (CMP) uses a campus steam and condensate return system to provide domestic heating and hot water for the Sea-Tac Airport. The original plant, along with the Deaerator (DA) and condensate systems, was constructed in 1969-1970. This project will replace the DA and condensate tanks and associated equipment to continue to provide domestic hot water and heat to the terminal. Additionally, a second air compressor system in mechanical room 211 will be installed to serve CMP pneumatic systems required for CMP operation.

Since the preliminary budget was developed three years ago, it has become necessary to add scope (needed for continuous operations) related to the CMP pneumatic systems and services. In addition, rising material costs, increased labor rates, and increased abatement scope has resulted in \$4.6 million in additional costs.

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JUSTIFICATION

These DA and condensate systems including the tanks, associated piping, and pumping are at their end of life and suspected to be near failure due to age and use. Failure of these systems would render the Airport unable to use the boiler system as designed until they are replaced. This would result in a lack of hot water for the airport, meaning restaurants and lounges would no longer be able to operate.

This project will have a potential net energy use reduction. Installing more energy efficient pumps, variable frequency drives (VFDs), and upgrading the 50-year-old systems should improve the CMP's overall efficiency.

Diversity in Contracting

Part of the design services will be completed using an existing IDIQ contract that was established in 2022 which has a 17% WMBE participation utilization requirement. WMBE goals will be evaluated for the remaining project specific design services.

DETAILS***Scope of Work***

Key elements of this project include:

- (1) Add a second air compressor to mechanical room 211 to serve as a backup when the three Joy air compressors are removed from the CMP.
- (2) New backup air compressor to be supplied with emergency power.
- (3) Remove and dispose of the Boiler Room air handling unit to allow access to the DA and condensate tanks and piping.
- (4) Remove and dispose of the three Joy air compressors and the associated air dryers and receivers, to allow access to the DA and condensate tanks and piping.
- (5) Remove and replace the DA (1 tank) and Condensate (1 tank) tanks and piping as required to support the three 30,000 lbs./hour steam boilers and one 40,000 lbs./hour steam boiler.
- (6) Remove and replace the blowdown and flash tank capable of supporting the three 30,000 lbs./hour steam boilers and one 40,000 lbs./hour steam boiler.
- (7) Remove and replace the feedwater pumps and piping and condensate pumps (6 pumps total).
- (8) Install three new VFD's and install feedwater controls as required to the three feedwater pumps.
- (9) Install VFD's for the three condensate pumps to improve efficiency.
- (10) Relocate (permanently or temporarily) two Siemens DDC Panels (HCP Nodes 10 and 11) located in the project area. The panels were replaced in 2016 and do not need replacement but they are a physical obstacle. The panels control / interface with the boiler operating equipment and will need to be evaluated during design for phasing impacts depending on whether new systems are installed in parallel.

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- (11) Add level control loop to adjust condensate pump(s) VFD speed.
- (12) A temporary system will be required during construction to provide the needed domestic hot water for ADR and tenants.
- (13) Structural upgrades will be required, per new building codes, for the existing elevated platform that the tanks are mounted on.
- (14) Remove and replace the make-up feedwater and water softener.
- (15) This project will require abatement (tanks and associated piping are presumed to be wrapped in asbestos insulation).

Schedule

Commission Design & Construction Authorization – Secondary Air Compressor	2023 Quarter 2
Commission Design Authorization – DA & Condensate	2023 Quarter 2
Commission Construction Authorization– DA & Condensate	2025 Quarter 3
Construction Start – Air Compressor	2024 Quarter 4
Construction Start – DA & Condensate Tanks	2025 Quarter 4
In-Use Date Air Compressor	2025 Quarter 4
In-Use Date – DA & Condensate	2028 Quarter 1

Cost Breakdown

	This Request	Total Project
Design	\$2,750,000	\$3,500,000
Construction	\$750,000	\$10,000,000
Total	\$3,500,000	\$14,656,000

ALTERNATIVES AND IMPLICATIONS CONSIDERED

Alternative 1 – Defer project to a later date or cancel project.

Cost Implications: Expense approximately \$40,000 for notebook development costs.

Pros:

- (1) Defer major capital investment costs.

Cons:

- (1) System failure could occur at any time resulting in large expense costs for emergency repairs and shutdowns to restaurants, lounges, and other tenant owned spaces.
- (2) Potential for additional increase in costs for materials, labor, and/or inflation.

This is not the recommended alternative.

Alternative 2 – Remove secondary air compressor from this project and replace at a later date with a separate project.

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Cost Implications: Capital project investment of an estimated \$13.6M for planning, design, and construction.

Pros:

- (1) Shorten overall project schedule.
- (2) Defer estimated \$1,000,000 for the design and construction of the secondary air compressor.

Cons:

- (1) Single point of failure for the CMP. Proper air compressor operation is critical to CMP function. Failure of the Air system will be catastrophic to the CMP, and Airport Operations.
- (2) Potential for additional increase in costs for materials, labor, and/or inflation if this portion of the project is deferred to a later date.

This is not the recommended alternative.

Alternative 3 – Remove and replace the Deaerator (DA) and Condensate tanks in the Central Mechanical Plant and add a secondary air compressor in Mechanical Room 211.

Cost Implications: Capital project investment of an estimated \$14.6M for planning, design, and construction.

Pros:

- (1) Mitigate potential for failures that negatively affect the operation of the boiler system.
- (2) Improved efficiency over existing systems.
- (3) Increase reliability and decrease maintenance costs.

Cons:

- (1) Large capital project investment.

This is the recommended alternative.

Cost Estimate/Authorization Summary

	Capital	Expense	Total
COST ESTIMATE			
Original estimate	\$9,805,000	\$0	\$9,805,000
Current change	\$4,639,000	\$212,000	\$4,851,000
Revised estimate	\$14,444,000	\$212,000	\$14,656,000
AUTHORIZATION			
Previous authorizations	\$100,000	\$0	\$100,000
Current request for authorization	\$3,500,000	\$0	\$3,500,000

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Total authorizations, including this request	\$3,600,000	\$0	\$3,600,000
Remaining amount to be authorized	\$10,844,000	\$212,000	\$11,056,000

Annual Budget Status and Source of Funds

This project, C801223, is included in the 2023-2027 capital budget and plan of finance with a budget of \$9,805,000. The capital budget increase of \$4,639,000 was transferred from the Aeronautical Allowance CIP C800753 resulting in no net change to the Airport capital budget. The funding sources will be the Airport Development Fund and future revenue bonds. This project was presented to the airlines at an Airport Airlines Affairs Committee and the Majority in Interest (MII) ballot will be approved on April 10, 2023.

Financial Analysis and Summary

Project cost for analysis	\$14,656,000
Business Unit (BU)	Terminal Building
Effect on business performance (NOI after depreciation)	NOI after depreciation will increase due to inclusion of capital (and operating) costs in airline rate base.
IRR/NPV (if relevant)	N/A
CPE Impact	\$0.04 in 2028

Future Revenues and Expenses (Total cost of ownership)

As a result of this project, Aviation Maintenance may see a small increase in preventative maintenance support.

ATTACHMENTS TO THIS REQUEST

- (1) Presentation

PREVIOUS COMMISSION ACTIONS OR BRIEFINGS

None

Deaerator (DA) and Condensate System Upgrades (Hot Project)

Joe Cook

AV F&I – Mech. Engineering Manager

Matthew Piccolo

AV PMG – Capital Project Manager

Project Overview

Project replaces old heating system components in SEA's Central Mechanical Plant that supply space heating and domestic hot water heating throughout concourse areas, and replaces old secondary air compressor needed for redundancy.

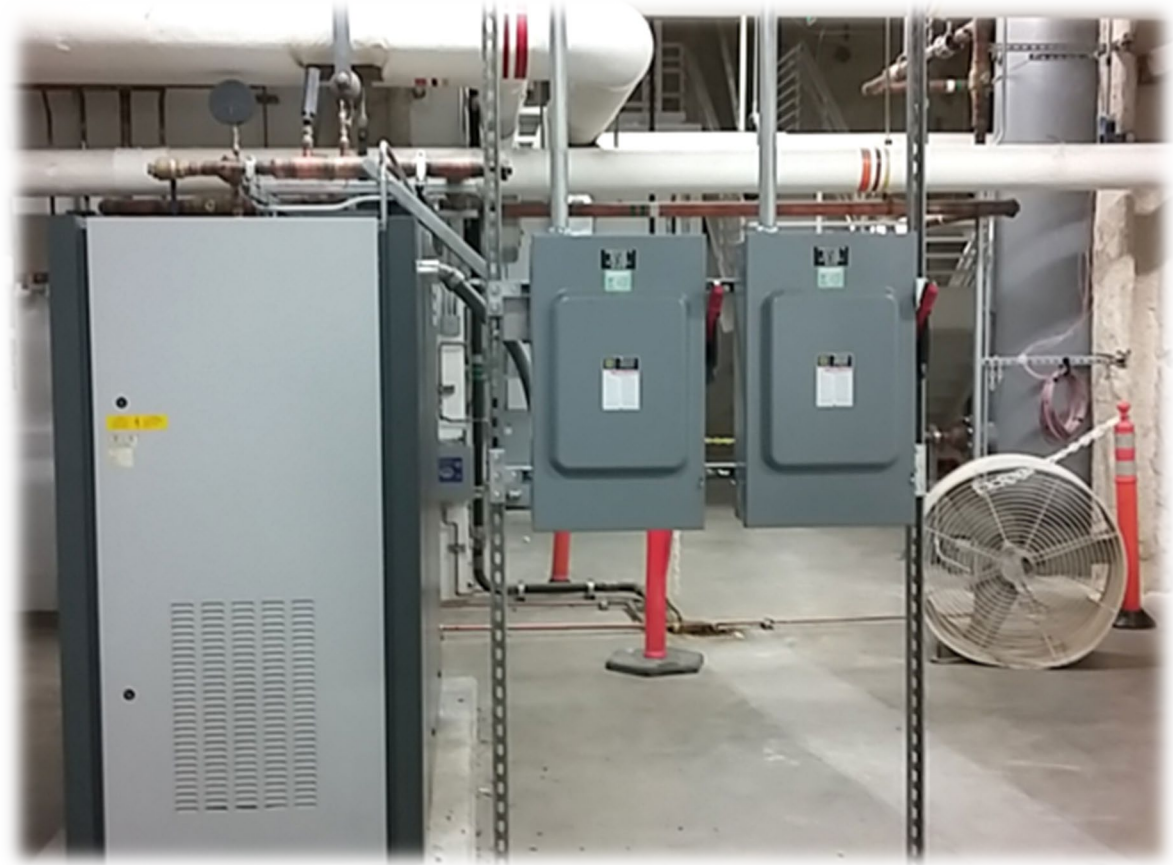
Requesting Commission Authorization for:

- Design and construction of secondary air compressor portion of project,
- A project specific designer for removal and replacement of tanks and pumps,
- Approval of total revised project budget of \$14,656,000 (a \$4.8 million increase)



Project Scope

- Replace deaerator ('DA') tank, steam condensate tank, blowdown flash tank
- Install new feedwater pumps with energy-efficient variable frequency drives
- Remove Boiler Room air handling unit and three old air compressor systems
- Install new secondary air compressor in Mechanical Room 211 (discretionary change, added from small works project)



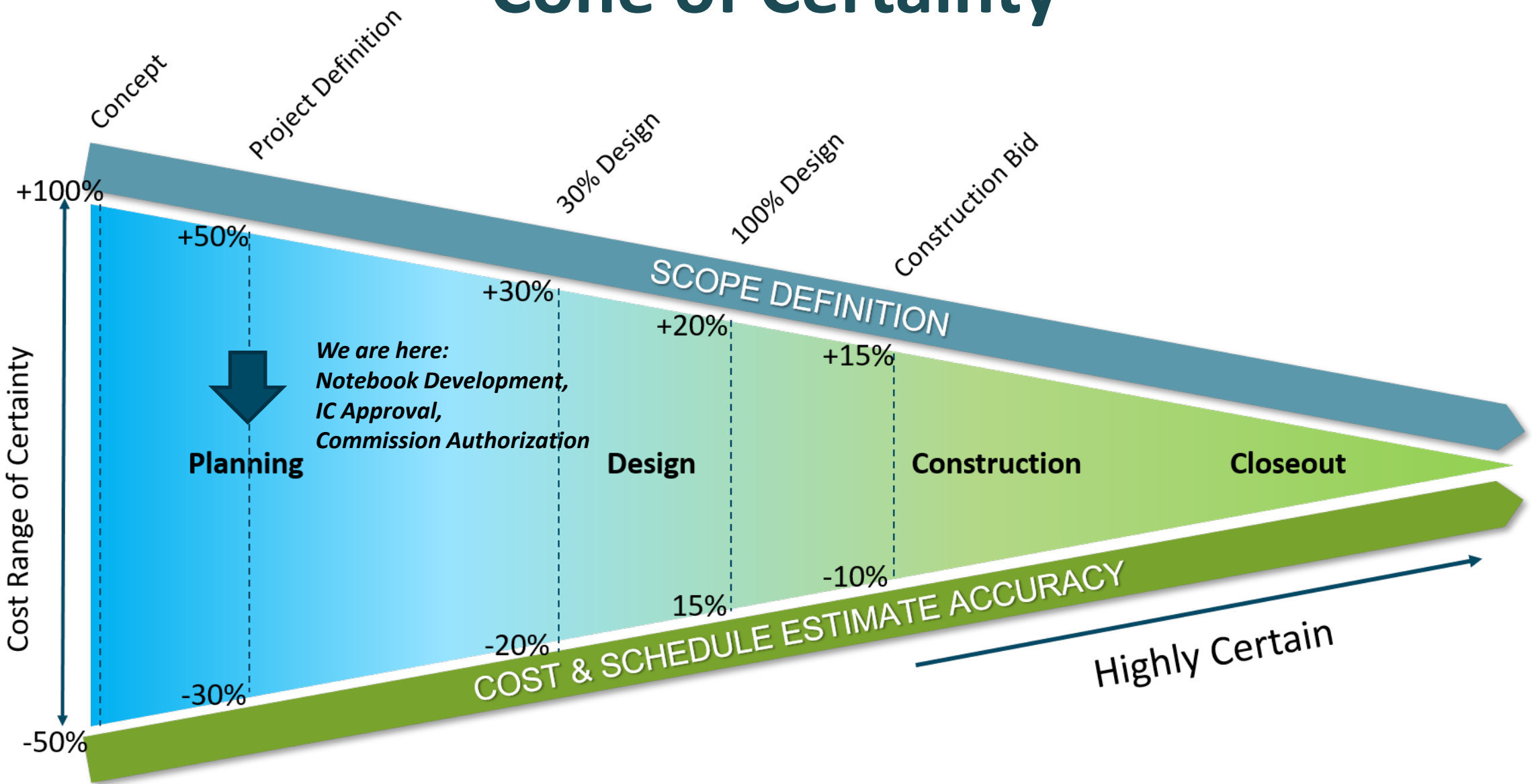
Schedule

Milestone	Date
Commission Authorization for Design	Q2 2023
Commission Authorization Construction – Air Compressor	Q2 2023
Commission Authorization Construction – DA & Condensate	Q3 2025
Notice to Proceed – Secondary Air Compressor	Q4 2024
Notice to Proceed – DA & Condensate Tanks	Q4 2025
Substantial Completion – Air Compressor	Q4 2025
Substantial Completion – DA & Condensate	Q1 2028

Budget

Cost Estimate	Capital	ERL	Total
Status 2 Estimate (2020)	\$9,805,000	\$220,000	\$10,025,000
Revised Project Estimate (2022)	\$14,444,000	\$212,000	\$14,656,000

Cone of Certainty



Action Requested

- Increase project budget by \$4,851,000 for a total revised budget of \$14,656,000
- Execute a professional services contract for design services
- Prepare design and construction bid documents for the Deaerator and Condensate System Upgrade project
- Advertise and execute a major works construction contract for the secondary air compressor portion of the project
- Authorize the use of Port of Seattle Crews for pre-construction activities

QUESTIONS?

[RETURN TO AGENDA](#)



**COMMISSION
AGENDA MEMORANDUM**

Item No. 8c

ACTION ITEM

Date of Meeting April 18, 2023

DATE: April 7, 2023

TO: Stephen P. Metruck, Executive Director

FROM: Keri Stephens, Director AV Facilities & Capital Programs
Eileen Francisco, Director Aviation Project Management

SUBJECT: Passenger Loading Bridge (PLB) Renewal and Replacement Phase 3 – Gate B11 addition (Short Form)

Amount of this request: \$ 1,000,000

Total estimated project cost: \$ 15,000,000

ACTION REQUESTED

Request Commission authorization for the Executive Director to: (1) Increase the project scope and associated budget by \$1,000,000 for a final revised total budget of \$15,000,000 and, (2) Purchase one PLB and associated equipment for Gate B11.

SUMMARY

Reliable, well-operating passenger loading bridges are critical to airline and airport operations. Recently, during a quarterly preventative maintenance inspection, the structural integrity of gate B11 was identified as an elevated risk of failure. This PLB has been in operation since 1987 and was partially refurbished in 2012. It primarily serves domestic travelers. Staff recommends accelerating the replacement of this PLB to prevent an unanticipated protracted shutdown and emergency replacement.

This request will transfer the scope and budget of Gate B11 to the PLB Phase 3 project (C801180) from the PLB Phase 4 Project (C801308) and accelerate the replacement into the 2024 construction season. This timeline will align with a planned gate outage that is required for the Airfield Improvement Project and minimize the impact to airport operations. The PLB Phase 4 project is still in the planning phase and will return later for additional authorization.

There are no attachments to this memo.

ORDER 2023-05
AN ORDER OF THE PORT OF SEATTLE COMMISSION

... To develop a language access policy and plan that ensures inclusion of non or limited English speakers, including those who are hard of hearing or deaf, in the use of Port services and facilities; and the portwide implementation of a plan directing divisions with publicly facing public services to offer language assistance services including translation and/or interpretation.

PROPOSED
APRIL 11, 2023

TEXT OF THE ORDER

The Port Commission hereby directs the Executive to develop a Portwide policy on language access. At a minimum, this language access policy shall include an assessment of current practices (including a review of publicly facing documents, resources, signage, websites, social media sites, and forms); development of a guidance manual for divisions to create language access plans; and a proposal for budgeting resources necessary to implement this policy. The Office of Equity, Diversity, and Inclusion (OEDI) and External Relations (ER) shall deliver a report to the Commission and Executive Director by February 29, 2024 on the findings of any language access assessments and the development and implementation of language access policy across the Port. The findings of this report may then be used to inform additional Executive Director and/or Commission action.

The following shall be considered a guide to the implementation of this order:

1. OEDI shall conduct an assessment of every department, except External Relations, across the organization to determine the following: the most critical materials that need translation, the need for interpreters, and the level of training and implementation necessary to meet Safe Harbor guidance by the U.S. Department of Justice and/or the Four Factor LEP Analysis framework from Federal agencies as part of the Title VI plans for the Port of Seattle and SEA. These assessments will be conducted with support from the Change Team and shall be completed by February 29th, 2024.
2. External Relations shall conduct a prioritized assessment of its most critical internal and external facing communications and determine the level of resources needed to implement language access in the department’s materials and programming. External Relations shall share these findings with OEDI by September 2023 and propose a multi-year, prioritized language access implementation plan for ER starting in the 2024 budget. External Relations shall also collaborate with OEDI in assessing the Aviation Division.
3. By September 2023, OEDI and ER shall start to collaborate to develop a Language Access guidance manual. This Language Access guidance manual must include, but is not limited to, guidance for when targeted, culturally and linguistically responsive public communications must be translated, how to establish and meet interpretation requests as they relate to services

48 offered by the Port of Seattle, how to select quality, certified translators and interpreters when
49 needed, when to consider alternative forms of language access when translation or
50 interpretation may not be the most effective methods, and post-translation and interpretation
51 quality assurance review. This guidance manual shall be completed and available for
52 department and division use by February 29th, 2024.
53

- 54
- 55 4. Based on the assessments in Sections 1 and 2, by February 29th, 2024 the Office of Equity,
56 Diversity, and Inclusion and External Relations shall begin to provide departments and divisions
57 technical assistance for establishing and/or updating annual language access plans.
58 Departments prioritized for support will be departments and divisions with external facing
59 and/or customer facing operations. This technical support shall include budget planning for
60 departments to resource language access strategies and implementation.
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- 62 5. Departments and divisions shall establish and/or update their language access plans on an
63 annual basis starting no later than 2025.
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- 65 6. Any language access assessments or annual language access plans shall consider the needs of
66 people who communicate using American Sign Language.
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- 69 7. Per the 2022 Salary and Benefits Resolution, Human Resources shall propose a policy and
70 compensation model for Port employees who are tasked with translation services outside of
71 their regular job duties prior to the 2025 budget development process.
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- 73 8. OEDI shall collaborate with King County to access King County’s data related to first, second, and
74 third tier languages and make this data available through the equity index and by sharing with
75 other departments throughout the organization.
76
- 77 9. The Office of Equity, Diversity, and Inclusion is designated co-lead to provide technical support,
78 oversight, and program management duties in fulfillment of this order.
79
- 80 10. External Relations is designated co-lead to provide technical support for departments to execute
81 language access plan strategies related to the Port's external facing operations and outreach
82 activities in fulfillment of this order.
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- 84 11. By February 29, 2024, OEDI and External Relations shall provide a report to the Executive
85 Director and the Commission on lessons learned and future considerations related to this order
86 to establish language access plans and tools across the Port.
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STATEMENT IN SUPPORT OF THE ORDER

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The Port of Seattle strives to be inclusive in providing access to services and to provide a welcoming environment for customers, employees and the general public. We welcome citizens, neighbors, and visitors from throughout the world regardless of race, color or national origin and strive to exceed the values expressed in Title VI of the Civil Rights Act of 1964, which requires recipients of Federal financial assistance to take reasonable steps to make their programs, services, and activities accessible by eligible persons with limited English proficiency. The Port is committed to access to services, especially historically and currently overburdened communities and populations, including those with limited English proficiency, to promote the general health, safety, and economic prosperity of our region.

Language Access Order

Presenters:

Bookda Gheisar, Office of Equity, Diversity, and Inclusion

Tyler Emsky, Commission Office



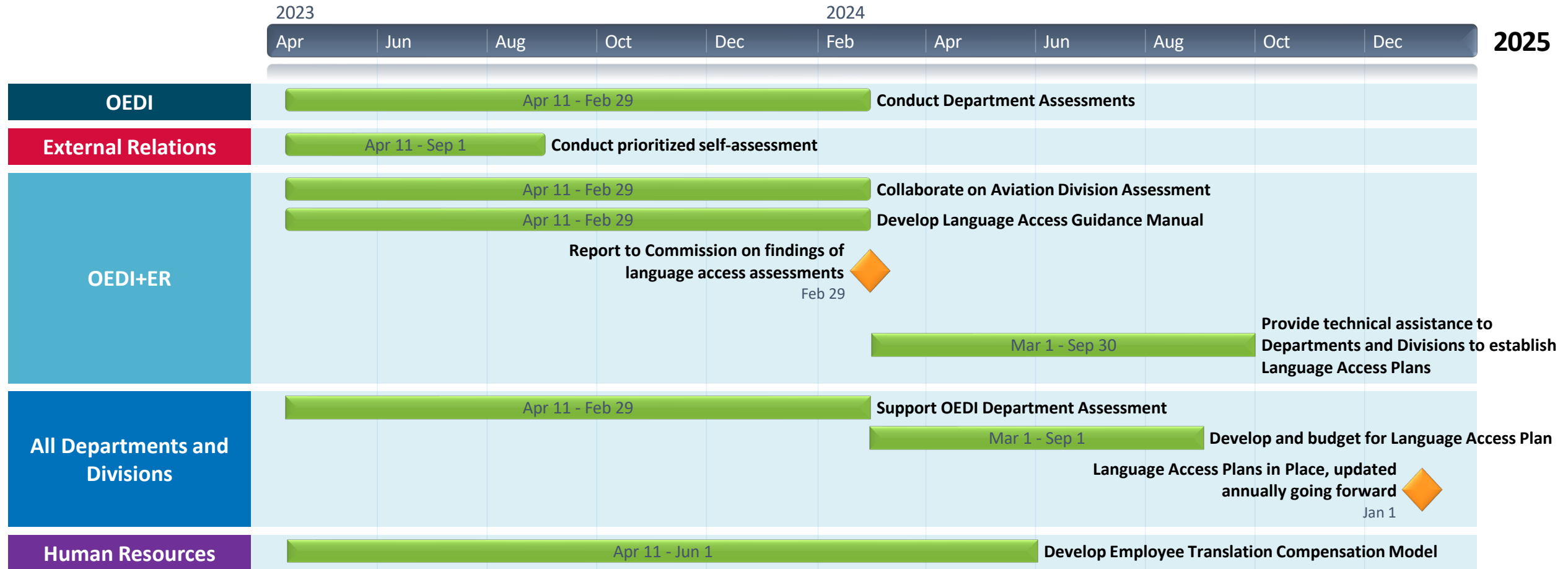
Highlights of the Language Access Order

- Makes language access a permanent, ongoing commitment by the Port of Seattle in every department and every division.
 - OEDI and ER to develop Language Access Guidance Manual for use by departments in developing their plans.
 - OEDI and ER to assist every department in developing/updating annual Language Access Plans.
 - Departments and divisions shall establish and/or update language access plans on an annual basis starting no later than 2025.

Highlights (continued)

- Language Access Plans to consider the needs of people who communicate using American Sign Language.
- Per authority granted by Salary and Benefits Resolution, prior to the 2025 budget development process Human Resources will propose a policy and compensation model for Port employees who are tasked with translation services.
- OEDI and ER to report to the Commission and Executive Director by February 2024 on the findings of language access assessments.

Language Access Order Implementation Timeline



Thank You

Questions?

[RETURN TO AGENDA](#)



COMMISSION
AGENDA MEMORANDUM

Item No. 11a

BRIEFING ITEM

Date of Meeting April 18, 2023

DATE: **March 27, 2023**

TO: Stephen P. Metruck, Executive Director

FROM: Sandra Kilroy, Senior Director, Environment & Sustainability
Jane Dewell, Senior Manager, Marine Stormwater Utility
Jeremy Webb, Environmental Program Manager, Aviation Environment & Sustainability
Tom Fagerstrom, Airport Noise Program Manager

SUBJECT: Sustainable Century and Fly Quiet Awards

EXECUTIVE SUMMARY

In honor of Earth Day (April 22, 2023), Port staff are pleased to announce winners of the Port's 2022 Sustainable Century Awards for the Aviation and Maritime Divisions. These awards recognize our customers, tenants, non-profits, and partners for outstanding accomplishments in the areas of environment and sustainability. Award winners serve as role models and demonstrate exceptional leadership in their operations or involvement with Port maritime facilities and Seattle-Tacoma International Airport (SEA). These businesses are key partners in helping the Port achieve our sustainability goals set forth in the Century Agenda.

Port staff also recognize winners of the Port's Fly Quiet Awards for airline efforts to reduce noise at SEA. The annual Fly Quiet Awards were developed by Port staff and a citizen advisory committee in 2005 to increase airline and pilot awareness of aircraft noise impacts on local communities.

This year's award winners include:

Sustainable Century Awards

- Maritime – Lineage Logistics, ECOSS, and Seattle Aquarium
- Aviation – UBER, HMS Host, Delta Airlines, and Southwest Airlines

Fly Quiet

- Air Canada, Frontier Airlines, and Alaska Airlines

MARITIME SUSTAINABLE CENTURY AWARDS

The Maritime Division received three nominations and recognizes all three as award winners with the following key accomplishments:

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Lineage Logistics (Environmental Performance Category)

This award recognizes Lineage Logistics for leadership and investment in energy savings to support environmental sustainability in the fishing industry. Their achievements include:

- Invested in ambitious energy savings that will reduce energy use by 1.2M kWh/year when compared with performance of old versus new equipment.
- Projects installed by Lineage include:
 - LED lighting in two buildings at Terminal 91 with automatic motion sensors that adjust lighting,
 - New rail dock doors and high-speed roll-up doors on cold storage that reduce energy loss from freezers, which must maintain a temperature of -15°F
 - New variable frequency drive compressors and new evaporators that no longer run 24/7 at 100% but adjust to demand as needed.
- Established a zero-carbon footprint goal by 2040, 10 years earlier than Washington State mandates for greenhouse gas reductions.
- Lineage provides an excellent model of environmental performance for energy programs that are relevant to fishery and maritime industrial businesses in the Puget Sound region.

ECOSS (Environmental Education & Outreach and Equity, Diversity & Inclusion Categories)

This award recognizes ECOSS for leadership in environmental education and outreach, and for embracing equity, diversity and inclusion in their community programs. Their achievements include:

- Initiated and led two notable education and outreach programs in 2022 that supported outdoor education and sustainable natural resource awareness among Black, Indigenous, and People of Color (BIPOC), immigrant and refugee communities in King County:
 - Led transit-to-parks outings to Little Mount Si in collaboration with Washington Trails Association, The Wilderness Society, and King County Metro & Parks departments that introduced over 66 community members ages 4 to 50+ to the possibilities of hiking in regional natural areas using transit, with multi-lingual and multi-cultural experience that was beneficial to all participants; and
 - Adopted and cared for a habitat restoration site in Seward Park in collaboration with Mountains to Sound Greenway Trust, Green Seattle Partnership, and Seward Park Audubon Center that included over 40 participants for two restoration events that involved plant removal, education/nature walks, and introducing native species to heal the land;
- In addition to being excellent examples for environmental education and outreach, these programs exceeded the criteria for Equity, Diversity and Inclusion recognition.

Seattle Aquarium (Environmental Innovation Category, Honorable Mention for Equity, Diversity & Inclusion)

This award recognizes the Seattle Aquarium for innovative marine research conducted under the Urban Kelp Research Project. Their achievements include:

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- Advancing the understanding of bull kelp populations in the Puget Sound and patterns of decline and resurgence using three innovative elements:
 - Remotely Operated Vehicle (ROV) survey methodology: using ROV in place of divers they expanded the area and amount of video data gathered in marine ecosystems to document kelp, invertebrate and fish abundance, and improved field methods to survey kelp;
 - Artificial Intelligence (AI) analysis: the large amount of video imagery collected by ROVs is processed using two AI algorithms that analyze for types of marine life and percent coverage and can generate orders of magnitude more data compared to traditional methods; and
 - Open-access research: sharing research methods and findings with the greater Puget Sound community and beyond will help advance bull kelp and other marine ecosystem research and ensure conservation and restoration programs are effective and efficient.
- In addition, the kelp project received an Honorable Mention for Equity, Diversity, Inclusion for its partnership with Sea Potential LLC, which exposes BIPOC communities to maritime careers.

AVIATION SUSTAINABLE CENTURY AWARDS

The Aviation Division received five nominations and selected two winners for the following key accomplishments:

HMS Host (Environmental Innovation/Performance Categories)

This award recognizes HMS Host's innovative participation in SEA's single-use plastic beverage container reduction pilot project and their use of an alternative filtering and recycling service for used cooking oil. These two initiatives represent new voluntary actions in 2022 that support Port waste reduction goals. Their achievements include:

- Collaborating with the Port on a pilot project evaluating alternatives to single-use plastics for bottled/canned beverages sold at SEA stores. Beginning May 2022, three Host stores began offering aluminum, glass, or paper alternatives along with traditional plastic options for various beverages. While the pilot continues in 2023, Host's willing partnership shows strong support for an SEA sustainability priority and provides real-world feedback from SEA suppliers and customers about product availability and demand that will help reduce single-use plastics;
- Began offering reusable aluminum water bottles in quick-serve and sit-down restaurants with promotional messaging through a national partnership with a leading provider of sustainably packaged water (Pathwater);
- Switched to a highly efficient vendor (Filta) for restaurant fryer oil maintenance and recycling, reducing oil use at SEA by 11,500 lbs., recycling 28,200 lbs. of used oil into biodiesel, and reducing pressure on SEA's existing oil collection system;

Additional and ongoing waste reduction efforts included:

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- Recycled six pallets of used electronics following computer and register system upgrades at SEA;
- Converted Starbucks straws to compostable alternatives and switched to innovative bio-plastic compostable straws (Biolo) at casual-dine units;
- Annually re-use and recycle ~7K pallets and additional amounts of glass, metal, and cardboard at offsite warehouse, and divert edible food through SEA’s Food Donation Program to relieve hunger in neighboring communities.

UBER (Environmental Performance Category)

This award recognizes UBER’s significant achievements in advancing electric vehicle (EV) use and expanding driver access to EV’s at SEA. Electrifying TNCs is a key Port sustainability strategy to reduce ground transportation emissions, and UBER is a major partner in that effort. UBER’s nomination highlights significant EV growth and emission reductions in 2022 at SEA through a broad range of EV-focused partnerships, programs, incentives and investments. SEA specific achievements include:

- EV rideshare trips at SEA nearly tripled between Q1 and Q4 reaching 8.5%;
- Lowered e-KPI score 17% from Q2 to Q4, reducing CO2 emissions by 2.5M lbs.;

Other global, national, and local sustainability efforts by Uber include:

- Hertz rental partnership offers discounted EV rentals to UBER drivers helping increase earning opportunities while decreasing emissions. To date, drivers have rented nearly 50K Teslas through the program, completing more than 24M electric trips over 260M electric miles. The program is available in Seattle and other major cities;
- Total Seattle area EV supply on UBER’s platform increased 350% (owned and rented);
- Worked with EV charging companies to offer driver discounts at public chargers (i.e., EVGo) and increased access to at-home chargers (i.e., Enel X);
- Provide in-app charging location information and “EV hub” resources to help drivers locate charging stations and explore earning and rental opportunities to aid transition to EVs;
- Provide \$1/ride incentive up to \$4K annually, paid directly to zero emission vehicle drivers;
- Added “Comfort Electric”, a new zero-emission offering in Seattle during July 2022, and continued “Uber Green”, which provides customers EV and hybrid ride options;
- Dedicated \$800M through 2025 to help drivers transition to zero emission vehicles;
- Advocated for equitable access to EV charging infrastructure and incentives by lobbying US DOT since data shows up to 50% of drivers using rideshare apps live in low-income communities;
- “Rematch” trip matching program reduces emissions by eliminating deadhead pickup and drop off trips, and SEA ranked in the top-5 of largest N.A. airports in 2022.

Meeting Date: April 18, 2023

The Aviation Division also award two airlines for efforts to reduce emissions using SEA ground power and pre-conditioned air systems, and highly fuel-efficient aircraft.

Southwest Airlines (Greatest use of airport ground power and pre-conditioned air systems):

- **Ground Power:** 92% of operations connect to system and longest connectivity while at gate (81% of turn time);
- **Pre-conditioned Air:** 65% of operations connect to system and longest connectivity while at gate (75% of turn time)

Delta Air Lines (Highest percentage use of fuel-efficient aircraft):

- Of the aircraft Delta operated at SEA in 2022, 25% were highly fuel-efficient (up from 16% last year) using Airbus A220s, A321neos, A330neos, and A350s compared to other high-operating carriers who have closer to 17%.

FLY QUIET AWARDS

Port staff developed the annual Fly Quiet awards in 2005, with input from a citizen advisory committee, to increase airline and pilot awareness of aircraft noise impacts on local communities. Fly Quiet was included as a continuing noise program measure in the most recent Part 150 Noise Study update completed in 2014.

Fly Quiet recognizes airlines based on the following criteria: 1) the sound levels of their operations using four of the Port's noise monitors, 2) success at flying within the noise abatement flight procedures, 3) adhering to SEA's ground maintenance engine run-up regulations, and 4) limiting noise levels during late-night hours at SEA. Using these scoring criteria, two airlines are recognized as the highest achieving carriers, and a third airline is recognized as having made a significant improvement over the previous year.

Air Canada

- Top scoring Fly Quiet airline for operations in 2022.
- Remarkably low takeoff noise utilizing a modern fleet of quiet Airbus A220 and A320neo aircraft.
- Fly the established Noise Abatement flight procedures at SEA very accurately.

Frontier Airlines

- High scoring airline with consistently lower noise levels than other domestic carriers.
- Operate the quiet Airbus A320neo at SEA.
- Consistently strong performer in Fly Quiet each year.

Alaska Airlines

- Recognized for undertaking significant improvements to their aircraft fleet in 2022.
- Replaced 30 older A320 model aircraft with new and quiet Boeing 737MAX9 aircraft.
- Lower noise levels for our busiest carrier at SEA.

Meeting Date: April 18, 2023

ADDITIONAL BACKGROUND

The Port has recognized environmental excellence among its business partners as early as 2010 with the Aviation Environmental Excellence and the Maritime Green Gateway awards. Under the Sustainable Century Awards, both divisions accept nominations for projects, processes, or actions that promote sustainability leadership in the following categories:

- Environmental Performance
- Environmental Education and Outreach
- Environmental Innovation
- Equity, Diversity & Inclusion

A panel of Port staff review nominations and determine award winners using established criteria for each nomination-based category. Awards in each category depend on the strength and quantity of nominations received. The Aviation division also awards airlines for efforts to reduce GHG emissions by relying on measured use of SEA ground power and pre-conditioned air systems, and flight operations data. Ground power and pre-conditioned air detection systems are not available at all SEA gates (unavailable at A & S gates) and measurements are based on available data. Only airlines with more than 5,000 flight operations at SEA in 2022 were included in the highest percentage of fuel-efficient aircraft use category, as they represent more than 80% of fuel load.

Port staff will host a celebratory awards luncheon June 1, 2023, from 12:00-1:30 PM at the Airport’s International Conference Center for award winners. Staff host the event and invite Port Commissioners and leaders to attend and present winners with commemorative awards, learn about their accomplishments, and celebrate with attendees.

Concurrent with award announcement, Port staff will launch a publicity campaign acknowledging this year’s award winners through Port media outlets (i.e., website, social, digital publications).

ATTACHMENTS TO THIS BRIEFING

- (1) Presentation slides

PREVIOUS COMMISSION ACTIONS OR BRIEFINGS

April 26, 2022 – Announced 2020-2021 award winners (Item #11b)

Sustainable Century Awards:

Maritime: Fishermen’s Finest, SSA Marine/Carrix, WHOOSHH Innovations

Aviation: Bellair Airporter Shuttle, Southwest Air Lines, Delta Air Lines

Fly Quiet: Spirit Airlines, Frontier Airlines, EVA Airways

Sustainable Century and Fly Quiet Awards

Sandra Kilroy
Environment & Sustainability
Center of Expertise
April 18, 2023

2023 Award Program

- Awards for tenants and businesses supporting Port sustainability goals since 2010
- Recognize environmental accomplishments and equity, diversity & inclusion efforts of local Aviation & Maritime industries
- Recognize airline noise reduction efforts
- Winners determined by staff with Senior Management concurrence

Sustainable Century Award Winners



Sustainable Solutions for All

Maritime Sustainable Century Awards



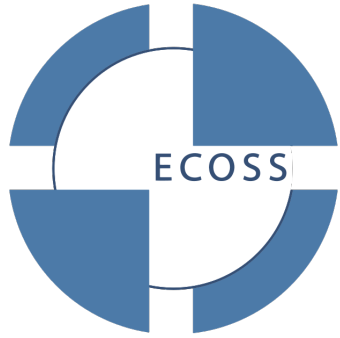
Lineage[®]

- Environmental Performance: Lineage Logistics
 - *For leadership and investment in energy savings for the fishing industry*



- Invested in ambitious energy programs that result in energy use reduction of 1.2M kWh/year:
 - LED lighting with automatic sensors
 - New rail doors and high-speed doors on cold storage to reduce energy loss from freezers that must maintain temperatures at -15°F
 - New variable frequency compressors and evaporators that adjust for demand rather than running 24/7
- Excellent model of energy savings for fishery and maritime businesses in the Puget Sound

Maritime Sustainable Century Awards



Sustainable Solutions for All

- Environmental Education & Outreach AND Equity, Diversity & Inclusion: ECOSS
 - *For leadership in education & outreach as well as equity, diversity & inclusion*
- Led education and outreach that supported natural resource awareness among BIPOC, immigrant and refugee communities
 - Transit-to-parks to Little Mount Si that introduced over 66 community members ages 4 to 50+ to the possibilities of hiking in regional natural
 - Habitat restoration at Seward Park with over 40 participants that involved plant removal, education/nature walks, and introducing native species to heal the land





Maritime Sustainable Century Awards

- Environmental Innovation: Seattle Aquarium
 - *For innovative marine research conducted under the Urban Kelp Research Project*
- Advances understanding of bull kelp populations, decline and resurgence using innovative elements:
 - Improved field survey methods using ROV in place of divers to document kelp, invertebrate and fish abundance
 - Process video with AI algorithms that analyze marine life and percent coverage and generated orders of magnitude more data than traditional methods
 - Open-access research to share methods and findings and ensure conservation and restoration programs are effective and efficient
- Honorable Mention EDI for partnership with Sea Potential LLC, exposing BIPOC communities to maritime careers



Aviation Sustainable Century Awards



We're trying something new.

Seattle-Tacoma International Airport (SEA) is working to reduce waste and transition away from single-use plastics.



As part of that effort, SEA and airport Concessionaires are exploring alternatives to plastic beverage containers. We're trialing some new options and would love to hear from you.

Like what you see, have concerns, or questions?

Scan the QR code below to take a brief survey and tell us what you think



- Environmental Innovation/Performance: HMS Host
 - *For partnering to reduce single-use plastics, cooking oil, and other waste*
- Participated in Port pilot project exploring non-plastic beverage sales in terminal; Ongoing in 2023 – valuable insights will inform future plastic reduction strategies
- Began offering and promoting reusable aluminum bottled water in SEA restaurants (Pathwater)
- Highly efficient cooking oil service reduced oil use ~12K lbs., recycled ~28K lbs., and relieved pressure on SEA system
- Ongoing efforts: E-waste recycling (~6 pallets), pallets reuse (~7K), Compostable & bio-plastic straws; Food donation

Aviation Sustainable Century Awards

Uber



- Environmental Performance: UBER
 - *For advancing Electric Vehicle (EV) use and expanding EV access for drivers at SEA*
 - Tripled SEA EV rideshare trips to 8.5% in 2022
 - Lowered eKPI score 17% reducing emissions by 2.5M lbs. of CO2 in 2022 (Q2 to Q4)
 - Hertz partnership offers discounted Tesla EV rentals with higher earnings for drivers. ~50K EV rentals, 24M trips and over 260M miles to date
 - Driver EV charging discounts, \$ incentives for EV trips, in-app resources, expanded customer offerings, and support equitable charging access

Aviation Sustainable Century Awards



- Greatest use of airport ground power and pre-conditioned air systems: Southwest Airlines
 - Ground Power: 92% of operations connect and stay connected 81% of turn time
 - Pre-conditioned air: 65% of operations connect and stay connected for 75% of turn time



Aviation Sustainable Century Awards



- Highest percentage use of fuel-efficient aircraft: Delta Air Lines
 - 25% of SEA operations used highly fuel-efficient aircraft (Airbus A220s, A321neos, A330neos, and A350s)
 - Compares favorably to other high-operation carriers who achieved ~17%



2023 Fly Quiet Awards



AIR CANADA

FRONTIER

Alaska[®]
AIRLINES

Air Canada



Top Fly Quiet scoring airline for their operations in 2022

- Operate the very quiet Airbus A220 and A320neo
- Remarkably low takeoff noise
- Fly the Noise Abatement procedures at SEA with great accuracy.

Frontier Airlines



Significantly lower takeoff noise than other domestic carriers in 2022

- Annually a very high scoring Fly Quiet airline at SEA
- Fly the quiet Airbus A320neo
- Very accurate at flying the Noise Abatement procedures at SEA

Alaska Airlines

Significantly Improved & Upgraded Aircraft Fleet in 2022



- Replaced 30 older model A320 aircraft with newer, quieter models
- Boeing 737MAX9 is modern, quiet and efficient
- Quieter operations from our busiest carrier

CONGRATULATIONS!

Sustainable Century and Fly Quiet Award Winners

-Save the Date-

Awards Luncheon

6/1/2023 12-1:30 PM

SEA Airport Conference Center

[RETURN TO AGENDA](#)