

COMMISSION AGENDA MEMORANDUM

BRIEFING ITEM Date of Meeting February 25, 2020

Item No.

9b

DATE: February 14, 2020

TO: Stephen P. Metruck, Executive Director

FROM: Wayne Grotheer, Director Aviation Project Management Group

Laurel Dunphy, Director Airport Operations

Jeffrey Brown, Director Aviation Facilities and Capital Programs

SUBJECT: North Satellite Modernization Budget Increase Briefing

EXECUTIVE SUMMARY

The North Satellite (NSAT) Modernization project helps meet the needs of our growing airline customers by making a deliberate and significant step to improving Seattle-Tacoma International Airport's capacity, customer level of service and competitive ranking among peer airports. This briefing describes that the current NSAT Modernization project estimate at completion spending forecast is greater than the budget authorized by the Commission. Increasing the budget in an upcoming Commission action will allow the NSAT Modernization project to proceed to completion by providing the budget for scope changes, additional soft costs, unforeseen conditions, and to respond to the fast-changing dynamics of the airport-

This briefing lays out the intention of the project team to return March 10, 2020 to request Commission authorization for the Executive Director to increase the project budget by \$40 million.

JUSTIFICATION

Approval of the increased budget will provide sufficient construction contingencies for construction completion and fund remediation efforts and support costs associated with the construction. The need for additional funding results from differing site conditions found during construction, additional contaminated and unsuitable soils discovered during excavation, added scope through Phase 1 and Phase 2 to meet airline, customer service, environmental, and code compliance needs and expectations, and an increased level of passenger service to mitigate passenger impacts during construction. These factors have all drawn down the construction contingencies and Project Reserves.

Diversity in Contracting

Hensel Phelps (HP) was contracted in July 2017 to achieve Small Contractor and Supplier participation of 5.5%. There were also two aspirational goals that HP was expected to attain: Small Business Enterprise participation of 16%, and Disadvantaged, Disabled Veteran,

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Minority, Women's Business Enterprise participation of 3.6%. The contractor is tracking to meet or exceed these goals and requirements. Project metrics are included in the table below in the Background section. Staff has updated and will continue to update the Commission on progress.

DETAILS

PROGRESS TO DATE

We have completed Phase 1, opened the Alaska Lounge, turned over the Concourse C STS station, and are halfway through the project construction. We continue to show project turnover to be Q3 2021 as projected in August 2017 and reaffirmed in subsequent briefings. As of December 31, 2019, the total construction contract is at \$470.5 million capital construction cost and \$15 million expense. The \$485.5 million total construction cost includes the preconstruction services completed by our contractor for a value of \$5.5 million.

LOOKING FORWARD

The project team continues to adjust our project completion schedule and spending forecast based upon current data and metrics observed. We completed Phase 1 construction and a rigorous lessons learned process to deliver Phase 2 with better passenger service. The team evaluated all current expenditures, risks and trends and has predicted a financial estimate at completion of the project. Our estimate includes an increase in the following key elements:

Capital

- (1) Finalized Design Development Cost (previously reported as exceeding allowance)
- (2) Differing site conditions (e.g., existing building out of plumb, existing floor conditions requiring complete terrazzo replacement, buried utilities)
- (3) Critical trade worker shortages
- (4) Added Scope:
 - a. Restroom redesign
 - b. Nursing suite
 - c. Baggage Handling System revisions
 - d. Elevator/Escalator changes by L&I, including a code revision
 - e. Added mobile stairway equipment for ground boarding aircraft (Phase 2 gate mitigation for construction)
 - f. Rainwater flushing system expansion

Expense

- (1) Contaminated and unsuitable soils continue to exceed predictions
- (2) Incorporating activities directed towards delivering an enhanced customer level of service; a feature of the Port's change in project priority from delivery of new gates

to maintenance of customer level of service standards during construction. This work has helped the project identify operational challenges, engage stakeholders, and employ measures prior to and during the turnover of the facility from construction to operational use. We have included this work in the project through completion.

(3) Additional construction barricade mitigation efforts for critical passenger circulation paths using escalators, stairs, and elevators. The number of passenger escalators and elevators needed to be reduced to complete the construction, creating single points of failure for access to the Concourse. We have deployed customer service personnel, increased passenger wayfinding, improved the aesthetics of barricades separating the public from the construction areas, and provided for better operational activation activities to provide a better customer experience through the STS station up to the gates.

Included in this budget increase is \$5 million to replenish the project's Management Reserve. The reserve is held outside of the construction contract and will only be used with approval of the Executive Director.

KEY POINTS

Alaska has expressed verbally to Port that they concur with the budget increase and moving forward with completion of this project. The Airlines were briefed on December 5, 2019 about the current status of the project.

The team has refined the phasing to better address customer and operational service, gate capacity and the passenger experience to ensure there is no significant degradation in level of service during the construction. The team is employing lessons learned on turning over the facility for operational use. The team continues to improve the detailed phasing and construction sequencing to continue to improve the passenger experience while constructing the project. We have successfully maintained AS's operations and are providing 10 gates during Phase 2.

FINANCIAL IMPLICATIONS

Cost Estimate/Authorization Summary	Capital	Expense	Total
COST ESTIMATE			
Original estimate	\$659,825,232	\$12,300,000	\$672,125,232
Pending change	\$32,090,895	\$7,909,105	\$40,000,000
Revised estimate	\$691,916,127	\$20,209,105	\$712,125,232

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AUTHORIZATION			
Previous authorizations	\$659,825,232	\$12,300,000	\$672,125,232
Pending request for authorization	\$32,090,895	\$7,909,105	\$40,000,000
Total authorizations, including this request	\$691,916,127	\$20,209,105	\$712,125,232
Remaining amount to be authorized	\$0	\$0	\$0

Annual Budget Status and Source of Funds

This project is included in the 2020-2024 capital budget and plan of finance with a budget of \$659.8 million. Staff will return to Commission to request a capital budget increase of \$32,090,895, which would be transferred from the Aeronautical Reserve CIP (C800753) resulting in zero net change to the Aviation capital budget. The funding sources will be the airport development, revenue bonds and Passenger Facility Charge revenue (PFCs).

This project is under construction, per Signatory Lease and Operating Agreement (SLOA) any additional budget increase does not require further Majority in Interest (MII) approval.

Financial Analysis and Summary

Project cost for analysis	\$712,125,232
Business Unit (BU)	Terminal Building
Effect on business performance	NOI after depreciation will increase due to inclusion of
(NOI after depreciation)	capital (and operating) costs in airline rate base.
	Increasing use of PFCs reduces Port revenue as capital
	costs are excluded from airline rate base.
IRR/NPV (if relevant)	N/A
CPE Impact	\$0.60-\$1.95 depending on amounts of PCs applied to
	ongoing revenue bond debt service.

The funding plan includes approximately \$126 million of PFCs to fund construction costs. Capital costs funded with PFCs are excluded from the airline rate base and therefore do not impact passenger airline cost per enplaned passenger (CPE). The funding plan also includes the use of PFCs to pay some level of ongoing revenue bonds debt service. Debt service paid by PFCs is also excluded from the airline rate base.

BACKGROUND

Project Metrics

	Budget/Planned	Utilization
		to Date
Cumulative Spent Against Authorization	\$672.1 M	\$425.8 M
Overall Work Complete	60%	60%
Cash flow for Reporting Period (Q1 2019)	\$43.7 M	\$37.1 M
Net Construction Contingency	\$24.7 M	\$17.0 M

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Management Reserve *	\$14.7 M	\$6.9 M	
Small Contractor Supplier (SCS) Design	6.4%	6.2%	
SBE Participation (Construction)	16.0%	19.08%	
SCS Participation (Construction)	5.5%	5.55%	
WMBE Participation (Construction)	3.6%	3.77%	
Apprenticeship Utilization to Date	15.0%	18.61%	
Minority Utilization to Date (% of apprenticeship)	15.0%	32.9%	
Women Utilization to Date (% of apprenticeship)	10.0%	10%	
* Requires Commission Notification M = million			

Total Construction Contract Metrics

	Budget/Planned	Percent
Original Contract Sum	\$445.9 M	
Executed Change Orders	\$24,2 M	5.42%
Current Contract Sum	\$470.1 M	
Net Construction Contingency	\$33.7 M	
Contingency Expended/Authorized	\$24.2 M	71.7%
Remaining Construction Contingency	\$9.5 M	28.3%
Negotiated Support Services (NSS)		
NSS Original Budget Value	\$40.1 M	
NSS Current Budget Value	\$39.3 M	
NSS Authorized Amount	\$19.8 M	50.5%
NSS Remaining Amount	\$19.5 M	49.6%

Change Orders executed over \$300,000 (since last report):

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Number	Summary Description	Cost
544 & 590	Increase Contaminated Soil Allowance	\$2.1 M
634	Concourse topping slab removal	\$960,000
641 & 684	Concourse C steel and vertical core revision	\$946,000
631	Mother's Room modifications	\$415,000
549	Additional GC's for estimator	\$447,000

ATTACHMENTS TO THIS BRIEFING

(1) Presentation slides

PREVIOUS COMMISSION ACTIONS OR BRIEFINGS

North Sea-Tac Airport Renovations (NorthSTAR) (CIP #C800544)

February 26, 2019 – NorthSTAR Program status update

November 13, 2018 - NorthSTAR Program status update

July 31, 2018 - NorthSTAR Program status update

May 22, 2018 - NorthSTAR Program status update

Jan 30, 2018 – NorthSTAR Program status update

Oct 24, 2017 – NorthSTAR Program status update

July 25, 2017 – NorthSTAR Program status update

April 25, 2017 – NorthSTAR Program status update

January 24, 2017 – NorthSTAR Program status update

September 13, 2016 – Request Commission authorization for the Chief Executive Officer to (1) increase the North Satellite Renovation & North Satellite Transit Station Lobbies (NSAT) project scope and budget; (2) increase authorization for project design; (3) amend design service agreement with URS that exceeds 50% of the value of the original contract; and (4) increase authorization for Preliminary Work Package #2 (PWP #2) construction.

August 9, 2016 – NorthSTAR Program Status Update

May 24, 2016 – Commission authorized Chief Executive Officer to 1) increase the North Satellite project scope and budget; 2) increase authorization for NSAT design and overall project support; 3) amend service agreements with Jacobs Project Management Company and AECOM; and 4) authorize the use of port crews and small works contactors to perform work for the project.

February 23, 2016 – NorthSTAR Program status update

November 24, 2015 – NorthSTAR Program status update

July 14, 2015 – NorthSTAR Program status update

April 28, 2015 – NorthSTAR Program status update

January 27, 2015 – NorthSTAR Program status update

October 28, 2014 - NorthSTAR Program status update

August 19, 2014 - NorthSTAR Program status update

May 27, 2014 – NorthSTAR Program status update

January 14, 2014 – NorthSTAR Program status update

September 24, 2013 – NorthSTAR Program status update

June 25, 2013 –NorthSTAR Program status update

April 9, 2013 – The Commission authorized the Chief Executive Officer to enter into a project labor agreement covering the NorthSTAR program's five major construction projects.

March 26, 2013 -NorthSTAR Program status update

June 26, 2012 – The Commission received a briefing on the status of the Airline Realignment Program and budget restructuring in association with the NorthSTAR Program.

April 10, 2012 – Authorizations for the North Seattle-Tacoma International Airport Renovations program for: 1) preliminary project funding; 2) execution of consulting

contracts for design/construction support services and project management services; and 3) use of Port crews and consultants to conduct regulated materials management surveys and field support services for preliminary project planning tasks.

North Satellite Renovation & North Satellite Transit Station Lobbies (CIP #C800556)

August 15, 2017 – The Commission authorized

Increase the authorized budget by \$107,000,000 capital and \$500,000 expense and authorize the remaining \$261,547,392 capital and \$8,800,000 expense, amending the Hensel Phelps (HP) contract by \$161,563,526 for the final MACC to complete the project in Q3 2021. Authorize execution of all pending and future change orders to the HP contract within the authorized budget and project scope to avoid potential delays. Authorize Port crews to support NSAT construction and authorize Port staff to enter into a TRA with AS for the reimbursement of AS and Port responsible design efforts and improvements.

June 27, 2017 – The Commission authorized four NSAT related items:

increase project authorization for the North Satellite Renovation & North Satellite Transit Station Lobbies Project by \$200,000,000; execute Preliminary Work Amendment #3 (PWA #3) with Hensel Phelps (HP) for up to \$200,000,000; authorize Port staff to execute all change orders to the HP contract within authorized budget and project scope without returning for additional Commission authorization; and authorize Port Construction Services (PCS) to execute small works contracts and use Port crews to support NSAT construction

September 13, 2016 – The Commission authorized four NSAT related items:

the increase of project scope and budget (capital) by \$7,000,000 for the revised third floor layout to better accommodate the signature restaurant, provide 3,000 additional square feet of future airport related leasable space, and increase AS premium traveler lounge as requested by 4,850 square feet.

Increase authorization by \$1,000,000 for project design.

Amend design service agreements with AECOM that exceed 50% value of the original contract.

Increase authorization by \$30,000,000 to accommodate Preliminary Work Package #2 construction.

May 24, 2016 - The Commission authorized four NSAT related items:

Increase of project scope and budget (capital and expense) by \$121,219,098 for 30% & 60% design scope additions and risk contingencies

Increased authorization of \$11,000,000 for continued NorthSTAR Program/Project Management services and NSAT design and overall project support.

Amend service agreements with Jacobs Project Management Co. and AECOM.

Authorize the use of port crews and small works contractors.

December 8, 2015 – The Commission authorized \$98,100,000 for the following:

Additional Pre-Construction services (\$1,200,000)

Construction auditing services

Preliminary Construction work

March 24, 2015 – The Commission authorized three NSAT related items:

Expand the baggage handling system increasing the project scope for \$14,400,000 and \$1,954,000 to complete the design.

Entering into a developer agreement with Puget Sound Energy and \$200,000 in reimbursement for the design and construction of underground gas infrastructure.

\$5,300,000 to Prepare four locations to accommodate temporary passenger loading bridges, to construct temporary construction offices; To complete construction of a Satellite Transit System (STS) North loop Dynamic Display system; \$600,000 in expense funds for regulated materials management for AS's tenant improvement project; and Approval to use Port crew labor and small works contractors to complete early project work.

August 5, 2014 – The Commission authorized expansion of the NSAT, \$191,323,143 budget increase, \$15,717,800 to complete the design, execute amendments to existing consulting contracts; execute future consulting contracts and use of and to advertise for General Contractor/Construction Manager (GC/CM) alternative public works contractor.

July 22, 2014 - NSAT Expansion Briefing

April 22, 2014 – Seattle-Tacoma International Airport Capital Program - Briefing January 14, 2014 – NSAT expansion briefing.

May 28, 2013, Commission authorized the execution of separate service agreements for Construction Management Services and Commissioning Services, of approximate values of \$10 million and \$1.5 million.

December 11, 2012 – The Commission was briefed on the Vertical Conveyance Modernization Project Aero Phases 1 and 2 and the possibility of adding the specified elevators and escalators to the NorthSTAR program.

July 24, 2012 - Commission authorized \$32,000,000 for the design of the NorthSTAR NSAT Renovation and NSTS Lobbies project.

April 10, 2012 - The Commission authorized the execution of consultant contracts for design and construction support services; program management services; and the completion of site surveys for regulated materials management, for \$1,200,000.