Item No. 7b_supp

Date of Meeting August 19, 2014

SeaTac International Airport

NorthSTAR Program

Program Commission Update Second Quarter 2014



NorthSTAR Program

The **North S**ea-**T**ac **A**irport **R**enovation (NorthSTAR) Program is an unprecedented working arrangement between the Port of Seattle and Alaska Airlines with the goal to better serve passengers and improve operational efficiency. This program brings together the north satellite expansion and renovation and several parallel projects, including related main terminal improvements; refurbished north satellite baggage system; and new exterior walkways, stairs and elevators at Concourse C.

Purpose:

- Improve the travel experience from airport drop-off to flight departure
- Improve working environment for employees

Outcome:

- Facility modernization
- Seismic refinement of North Satellite
- Enhanced traveler amenities
- New Contact Gates
- Long term energy savings and operational efficiencies

NorthSTAR Program

ACTIVE PROJECTS

C800554 WP 104802 NS NorthSTAR Program Management George England, Program Mgr C800556 WP 104791 NS NSAT Renovation NSTS Lobbies Greg Vouros, Project Mgr C800547 WP 104784 NS Conc C Vertical Circulation Joe Nessel, Project Mgr C800545 WP U00042 NS Main Terminal Improvements Joe Nessel, Project Mgr C800555 NS Refurbish Baggage System WP 104792 Ken Warren, Project Mgr

PENDING PROJECTS

C800554 WP TBD NS Exterior Stairs Conc C&D

EXPENSE PROJECTS

WP 104656 Alaska NSAT & Conc C (CLOSED) WP U00072 Doug Honeyman, Project Mgr NorthSTAR TI Work Joe Nessel, Project Mgr WP U00094 PLB Relocation at C14 Doug Honeyman, Project Mgr WP U00095 eGSE Relocation at Concourse C Joe Nessel, Project Mgr WP U00129 CM Office WP U00130 **BHS RMM** Ken Warren, Project Mgr Doug Honeyman, Project Mgr WP U00137 **Project Activiation**

Legend:

- Reflects Additional Budget Required or Behind Schedule
- Reflects concern on Budget and No Float remaining on Schedule
- Reflects Good Status on Budget and Schedule

Estimated Capital Cost: \$506M *

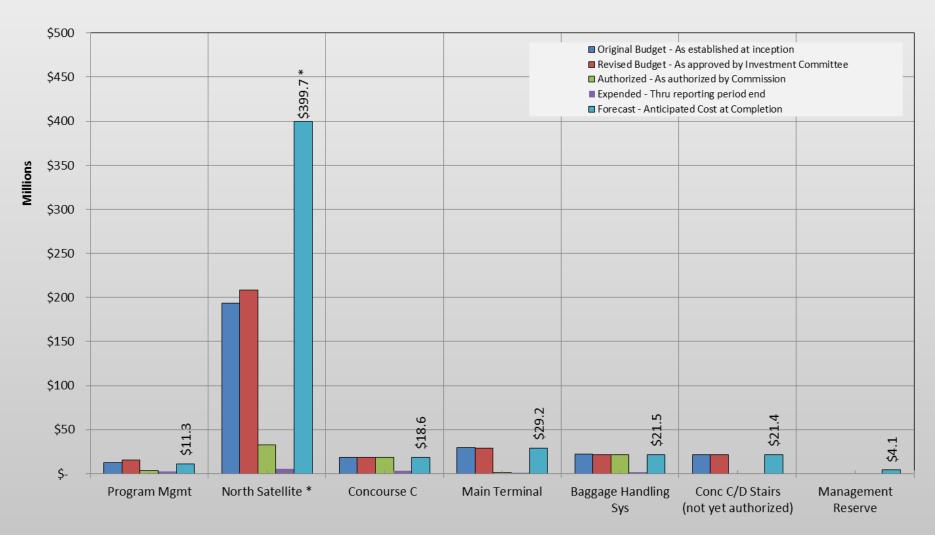
* Forecasted cost include added aircraft gates and square footage at North Satellite for passenger hold rooms, concessions and increased level of service.

NorthSTAR Program Overall Budget

FINANCIAL STATUS: NorthSTAR Program									
	Original Budget \$	Approved Transfers/Trends	Current	Current Authorization \$	Pending Transfers/Trends \$	Remaining Contingency \$	Expended to Date \$	Forecast at Completion \$	Variance (over) / under CIP Bdgt \$
C800544 NS NorthSTAR Program	\$ 13,000,000	\$ 2,400,000	\$ 15,400,000	\$ 3,600,000	\$ -	\$ 238,963	\$ 2,335,368	\$ 11,268,758	\$ (4,131,242.00)
C800545 NS Main Terminal Improvements	\$ 30,000,000	\$ (800,000	\$ 29,200,000	\$ 1,500,000	\$ -	\$ 2,606,000	\$ 66,887	\$ 29,200,000	\$ -
C800547 NS Conc C Vertical Circulation	\$ 19,300,000	\$ (700,000	\$ 18,600,000	\$ 18,600,000	\$ -	\$ 3,324,804	\$ 2,860,481	\$ 18,600,000	\$ -
C800555 NS Refurbish Baggage System	\$ 22,000,000	\$ (497,500	\$ 21,502,500	\$ 21,502,500	\$ -	\$ 4,552,612	\$ 1,727,205	\$ 21,502,500	\$ -
C800556 * NS NSAT Renov NSTS Lobbies	\$194,300,000	\$ 14,109,801	\$208,409,801	\$ 32,997,000	\$ 191,323,143	\$ 42,624,767	\$ 5,433,325	\$399,732,944	\$191,323,143.00
MANAGEMENT RESERVE	\$ -				\$ -	\$ 4,131,242		\$ 4,131,242	\$ 4,131,242.00
Subtotal	\$278,600,000	\$ 14,512,301	\$293,112,301	\$ 78,199,500	\$ 191,323,143	\$ 57,478,388	\$ 12,423,266	\$484,435,444	\$ 191,323,143
C800554 NS Exterior Stairs Conc C&D	\$ 21,400,000	\$ -	\$ 21,400,000	\$ -	\$ -	\$ 3,168,779	\$ -	\$ 21,400,000	\$ -
Total	\$300,000,000	\$ 14,512,301	\$314,512,301	\$ 78,199,500	\$ 191,323,143	\$ 60,647,167	\$ 12,423,266	\$505,835,444	\$ 191,323,143
Expense / 104656 Alaska N	NSAT & Conc C		\$ 278,891	\$ 278,891	\$ -	\$ -	\$ 278,891	\$ 278,891	\$ -
Expense / U00072 NS Tena	nt Impvmt		\$ 315,400	\$ 315,400	\$ -	\$ -	\$ 143,463	\$ 315,400	\$ -
Expense / U00094 Conc C - PLB		\$ 275,000	\$ 275,000	\$ -	\$ -	\$ 80,076	\$ 133,200	\$ (141,800)	
Expense / U00095 Conc C - eGSE		\$ 500,000	\$ 500,000	\$ -	\$ -	\$ 161,543	\$ 825,700	\$ 325,700	
Expense / U00129 CM Office		\$ 10,000	\$ 10,000	\$ -	\$ -	\$ -	\$ 10,000	\$ -	
Expense / U00130 BHS - RMM		\$ 500,000	\$ 500,000	\$ -	\$ -	\$ -	\$ 500,000	\$ -	
Expense / U00137 Project Activation		\$ 50,000		1	\$ -	\$ 443		\$ -	
Expense / TBD NSAT - RMM		\$ 5,800,000	\$ 500,000	\$ -	\$ -	\$ -	\$ 5,800,000	\$ -	

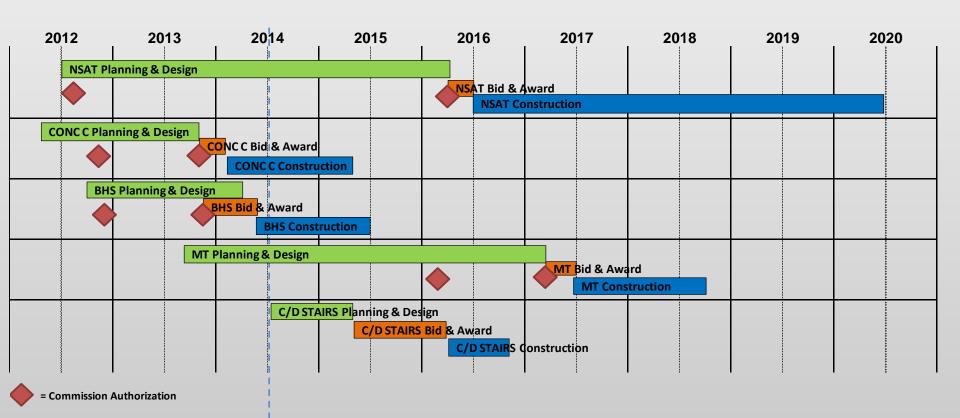
NorthSTAR Program Overall Capital Budget

Estimated: \$506M *



^{*} Forecasted cost include added aircraft gates and square footage at North Satellite for passenger hold rooms, concessions and increased level of service. Does not include \$5.8M of RMM "expense" costs.

NorthSTAR Program Overall Schedule



North STAR Program Progress					
	Design Phase		Construction Phase		
	Plan	Actual	Plan	Actual	
North Satellite/STS Renov.	71%	26%	0%	0%	
Conc C Vertical Circulation	100%	100%	7%	12%	
Refurbish Baggage Handling	100%	100%	71%	1%	
Main Terminal Improvement	0%	0%	0%	0%	
Conc C/D Exterior Stairs	0%	0%	0%	0%	

NorthSTAR Program Mgmt

CIP: C800544 – NS NorthSTAR Program Management



Management of the overall NorthSTAR Program to provide oversight, coordination, controls, consistency of approach and support at the programmatic level between stakeholders and projects to help ensure an efficient and successful execution of the entire program's objectives.

Accomplishments:

- Finalized AAG program lead transition with Greg Smith
- Completed first quarter 2014 Commission briefing

Progress:

- Continuing to update the Master Schedule to reflect most current baseline inclusive of changes to project design durations and scope
- Aviation programmatic linkage coordination reviews underway to assure airport-wide gate availability is not compromised during construction

Issues:

• Tracking programmatic cost impacts due to current progress delays on specific NorthSTAR projects.

NorthSTAR Program Mgmt

CIP: C800544 – NS NorthSTAR Program Management (continued)

Metrics:

Overall Program Progress	Actual	Planned /Forecast
Cashflow (for 2nd Qtr 2014)	\$261k	\$438k
Budget	\$15.4 M	\$15.4 M
Total Contingency Remaining *	\$4.36 M	\$0.84 M
SCS Participation (Program Mgmt)	33.1%	27.0%

^{* -} Includes Management Reserve

Note: This metric table reflects status for C800544 ONLY.

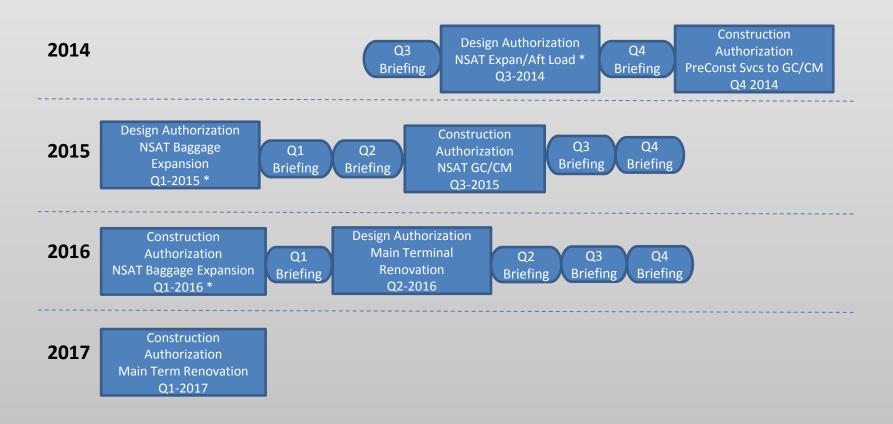
Prior Schedule metric was eliminated as it does not provide value for this CIP.

Risks:

- Communication and coordination between multiple teams, stakeholders and people.
- Assure baseline schedule concurrence of all stakeholders.

NorthSTAR Program Mgmt

CIP: C800544 – NS NorthSTAR Program Management (continued)
ANTICIPATED COMMISSION ACTIONS



^{*} NSAT Baggage Expansion not included in current NorthSTAR scope or budget.

NS NSAT Renovation & NSTS Lobbies

CIP: C800556 - NS NSAT Renovation & NSTS Lobbies

Project Behind Schedule
Budget Action Pending

Renovation and expansion of the entire North Satellite, including infrastructure, seismic reinforcement, gate relocations, north loop STS stations, and new penthouse shell to provide an improved travel experience for customers, improved working environment for employees and long-term energy savings and operational efficiencies.

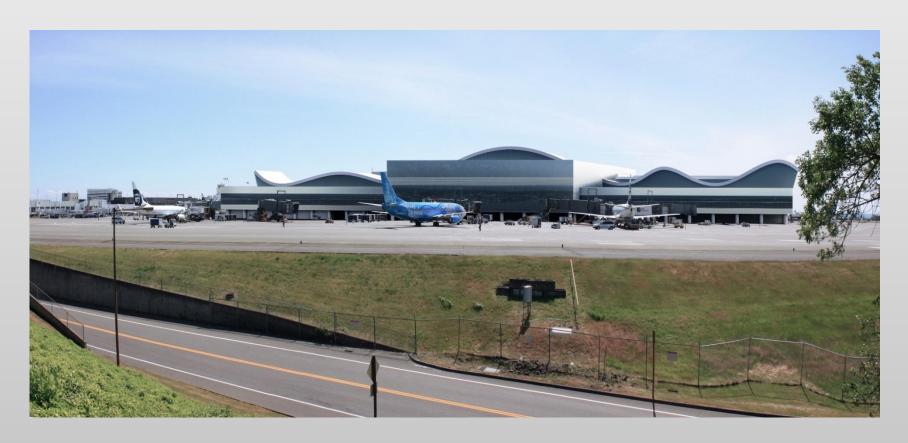
Accomplishments:

- Completed analysis of STS North Loop passenger capacity, showing the system can handle the expansion.
- Completed and submitted MII ballot to airlines for expansion and the associated budget increase.
- Completed analysis of future NSAT baggage system capacity.
- Presented NSAT to Architectural Review Committee.

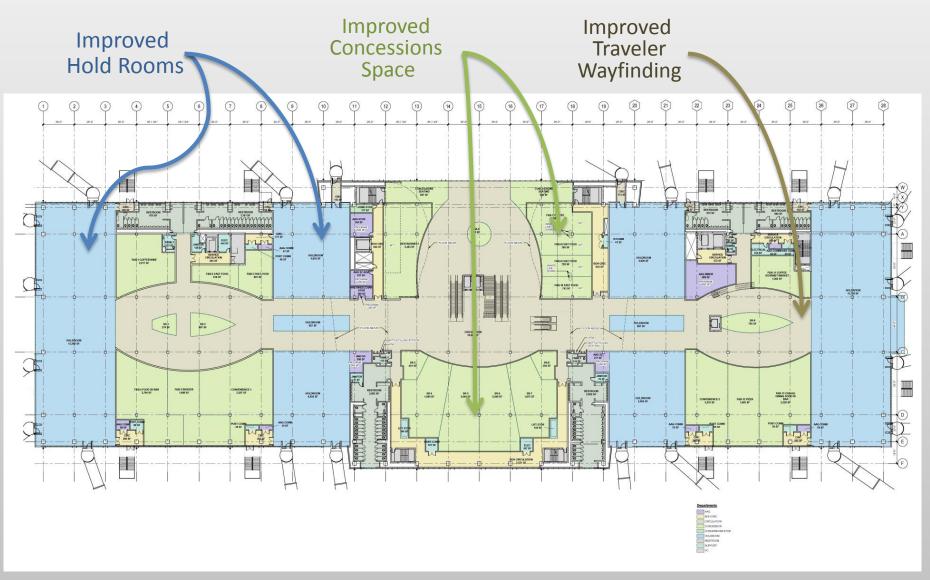
Progress:

- Continuing to evaluate gate utilization and availability during construction
- Continuing to prepare acquisition documents for General Contractor/Construction
 Manager (GC/CM) alternative contract delivery method
- Finalizing sustainability analysis for presentation to Port and AAG steering committees.
- Assisting AAG on analysis of aircraft layouts and ground equipment at NSAT gates.

Future North Satellite View from North Entry Drives



North Satellite Concourse Floor Plan



North Satellite Conceptual Interior Rendering



Center walkway receives daylight from above and provides better visibility and wayfinding for travelers.

NS NSAT Renovation & NSTS Lobbies

CIP: C800556 - NS NSAT Renovation & NSTS Lobbies (continued)

Issues:

- Current forecasted construction completion date is Q1 2020 based upon expansion.
- Future NSAT baggage system capacity as needed to allocate adequate space for additional piers.

Metrics:

Project Metrics	Actual	Planned /Forecast
Cashflow this reporting period	\$1.0 M	\$1.6 M
Project Contingency Remaining	\$42.6 M	\$40.7 M
SCS Participation (Design)	25.6%	6.0%
SCS Participation (Const)	0.0%	0.0%

Risks:

- Existing mechanical and electrical capacity may not be adequate for NSAT expansion.
- Mitigation of the existing 400Hz motor generators condition may increase costs.
- Baggage handling system refurbishment requirement may be impacted by expansion decision.

NS Concourse C Vertical Circulation

CIP: C800547 - NS Concourse C Vertical Circulation



Project Status Good

Increase efficiency and improve customer service through improved vertical circulations at Concourse C . Includes 1:20 walkways with elevators at C2/4, C10 and C14.

Accomplishments:

- Forma Construction began construction activity. Micropiles and grade beams installed at C2 & C16, elevator pit excavated at C2, and excavation started at C10
- Project schedule re-baselined after receipt and acceptance of Forma Construction schedule
- Temporary walkway installed at all three locations by AAG/PCL
- eGSE chargers removed from C2 and design at 90% for relocation
- Investment Committee approved replacement of exterior wall panels at PLB doors & removal of unused exterior gate signs.
- Underground grease interceptor piping scope and funds transferred into the project due to similar work and to minimize disruption to airline

Progress:

- Construction activity proceeding at C2, C10 and C16
- Finalizing plans for directional static signage in walkways

CIP: C800547 - NS Concourse C Vertical Circulation - Progress photos



C2 – Elevator Pit and Stem Wall Excavations



C2 – Micropile Installation



C16 – Grade Beam Excavations and Panel Removals



C10 - Removal of Pavement for Waterline Relocation

NS Concourse C Vertical Circulation

CIP: C800547 - NS Concourse C Vertical Circulation (continued)

Issues:

none

Metrics:

Project Metrics	Actual	Planned /Forecast
Delayed Outbound Bags	0	0
Delayed Outbound Flights	0	0
Safety Hazard Reports (Level 2+)	1 *	0
Customer Complaints Received	0/mo	<5/mo
Project Contingency Remaining	\$3.3 M	\$2.0 M
SCS Participation (Design)	31.8%	34.9%
SCS Participation (Const)	0.0%	6.0%

^{*} Flight attendant tripped on construction survey marker resulting in injury and lost work time.

Risks:

• Unforeseen underground utilities

Main Terminal Improvements

CIP: C800545 - NS Main Terminal Improvements



Project Status Good

Curbside revisions, ticket lobby upgrades, reconfiguration of Main Terminal North Checkpoint (#5), signage and dynamic messaging to improve the customer experience, operating efficiencies and overall aesthetics of the North Main Terminal.

Accomplishments:

Selected Landrum & Brown for Facility Determination Analysis

Progress:

Contract paperwork submitted and rate analysis is underway

Issues:

- Coordination with the NSAT design concept to ensure a cohesive look/feel.
- Coordination with AAG & TSA on Checkpoint 5 reconfiguration.
- Coordination with upcoming Sustainable Master Plan and Terminal Development Strategy.

Metrics:

TBD

Risks:

Least defined scope relative to the program budget.

NS Refurbish Baggage System

Project has no float remaining on the Schedule

CIP: C800555 - NS Refurbish Baggage System

Refurbishment of existing baggage system in support of Alaska Air Group (AAG) operations on the North Satellite and Concourse D extending the service life of part of the C92, C88 North Satellite and C88 tunnel systems.

Accomplishments:

- CPO awarded construction contract to MD Moore. First construction meetings held
- Central Equipment Room power under construction by PCS for Main Baggage Controls
- Construction of NSAT tunnel completed by PCS

Progress:

- Closing existing design service directives and consolidating construction support effort in one service directive
- Began work resolving Motor Control Panel issue

Issues:

- Design consultant performance resulted in schedule delays to overall project schedule and prompted closer scrutiny of deliverables for quality and design intent
- Motor Control Panel room may need to be relocated to avoid future conflict with seismic improvements.

CIP: C800555 - NS Refurbish Baggage System - Progress photos









NS Refurbish Baggage System

CIP: C800555 - NS Refurbish Baggage System (continued)

Metrics:

Project Metrics	Actual	Planned /Forecast
System Shutdowns	1	10
Operational Impacts	0	8
Unplanned System Downtime < 15 min	0	0
Construction Change Orders processed	0	0
Project Contingency Remaining	\$4.6 M	\$1.3 M
SCS Participation (Design)	19.0%	14.3%
SCS Participation (Const)	0.0%	5.0%

Risks:

- NSAT expansion decision may impact baggage handling system refurbishment requirements as to capability to handle forecasted bag volume and speed. Evaluating mitigation options
- TSA baggage optimization may have impacts to overall project schedule and scope

NS Concourse C&D Exterior Stairs

CIP: C800554 - NS Concourse C&D Exterior Stairs

Addition of exterior stairs to Concourse C & D to enable Dual Door enplaning & deplaning loading of aircraft at locations identified by Alaska Air Group (AAG).

Accomplishments:

• This is a Status 1 prospective project. A decision whether to include in the program will be made in the future.