ITEM NO: 7b Supp

DATE OF MEETING: April 9, 2013

Sea-Tac Airport International Arrivals Facility

Commission Briefing





Briefing outline

- Review historic and projected airport activity and existing conditions for arriving international passengers
- International Arrivals Facility (IAF) planning progress
- Work to make the most of the existing facility with modest improvements and mitigation
- Coordination with airlines and Customs and Border Control (CBP)
- Review IAF facility expansion alternatives
- Recommendation and next steps



Commission Century Agenda

- 25 year vision to advance region as a leading tourism and business gateway
 - Make Sea-Tac Airport the West coast "Gateway of Choice" for international travel
 - Double international flights and destinations
 - Meet region's air transportation needs at Sea-Tac Airport for the next 25 years, and encourage cost-effective expansion of domestic and international passenger and cargo service
 - Double the economic value of cruise traffic to Washington State



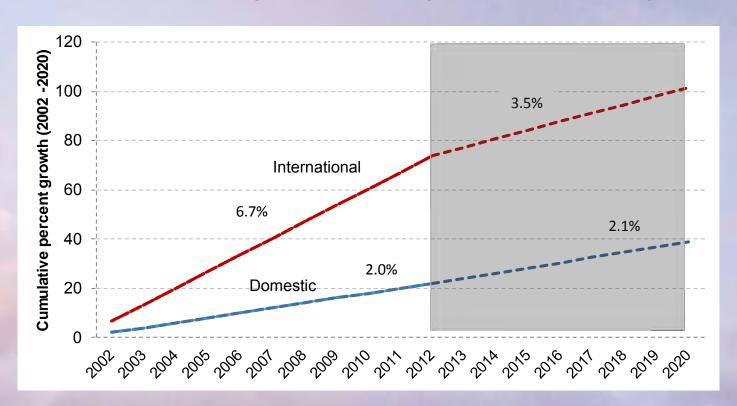
2012 passenger traffic

- Passenger traffic overall
 - 33.2 million total passengers
 - approx. 73% originating and 27% connecting airport-wide
 - 1.6 million arriving international passengers (incl. Canada)
 - Alaska Air Group (AAG) largest share of international passengers
- Passenger traffic requiring Federal Inspection Services (FIS) clearance on arrival
 - 1.2 million arriving international FIS passengers
 - 33% of arriving international passengers connected to domestic flights
 - 50% of passengers arriving from Asia connect to domestic flights
 - 25% of passengers arriving from Europe connect to domestic flights
 - Delta Air Lines has the largest share (28%) of passengers requiring FIS processing



International growth to outpace domestic

International passengers forecast to grow at 3.5% annually to 2020



Source: airline reports (historic), and Part 150 forecast (projected).



South satellite has reached capacity

- Originally constructed 1973 for 600 peak hour passengers
- Significant addition in 1983 to accommodate 1200 peak hour passengers
- Passenger activity reached facility capacity in 2013





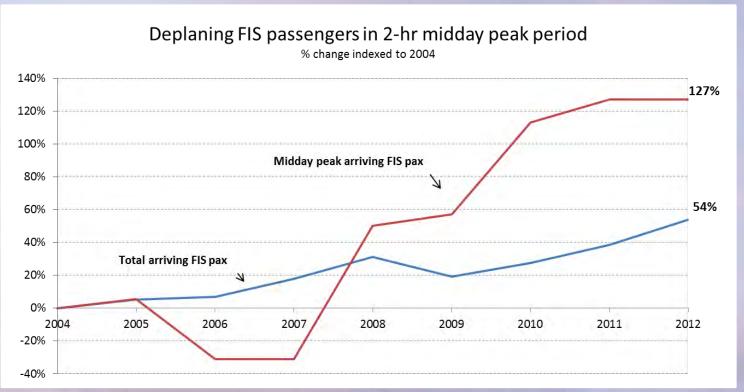
Nonstop intercontinental service: 2013





Mid-day peak increased 127% since 2004

- 54% increase in international passengers
- Peak volumes drive capacity, not annual volumes

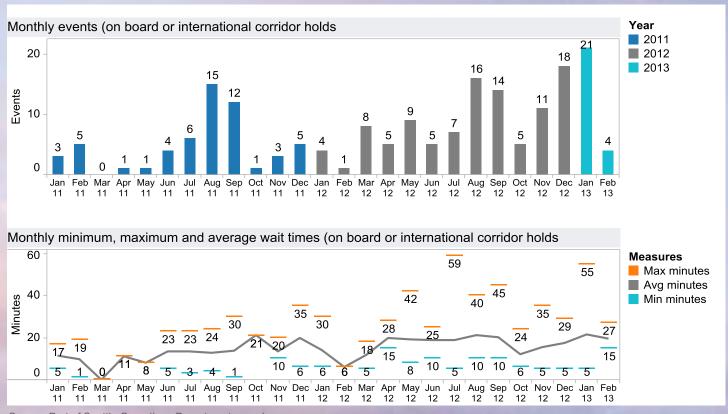


Source: airline reports and flight schedules



Inadequate capacity results in passengers being held on planes or in sterile corridor

Frequency of hold on plane or corridor events increasing



Source: Port of Seattle Operations Department records



At capacity, no room for growth

- Facility has reached capacity at peak, risk of gridlock without improvements
- Anticipated 50% increase in peak hour, 600 passengers beyond capacity over the next 5 to 10 years
- 5 years to design and construct new facility time to act is now



Remote location

- Forces terminating passengers to double-claim bags
- Confusing route to main terminal bag claim and arrivals hall
- TSA security checkpoint inefficient and no room for expansion
- Expensive train capacity project needed if IAF remains at SSAT location



Poor customer experience

- Congestion
- Difficult wayfinding
- Inadequate HVAC "sauna like" atmosphere
- Holding area too small to accommodate peak
 - Lengthy queues
 - Hold passengers on aircraft or in sterile corridor





Action needed on two fronts

- Operate existing facility with modest improvements and mitigation until a new facility can be completed
- Proceed with planning and design of new facility with goal of 2018 completion



Making the most of the existing facility

- Implemented numerous short-term measures to optimize existing facility
 - Hired full-time manager to improve IAF operations
 - Reassigned Port customer service "Pathfinders" from main terminal
 - Increased primary inspection capacity from 20 to 30 booths
 - Installed 3 Global Entry kiosks plans for 3 additional in 2014
 - Gained commitment from CBP to increase and optimize "surge" staffingopening 2-4 additional booths when needed
 - Worked with airlines and ground handlers to manage "just in time" baggage delivery
 - Improved air conditioning and escalators



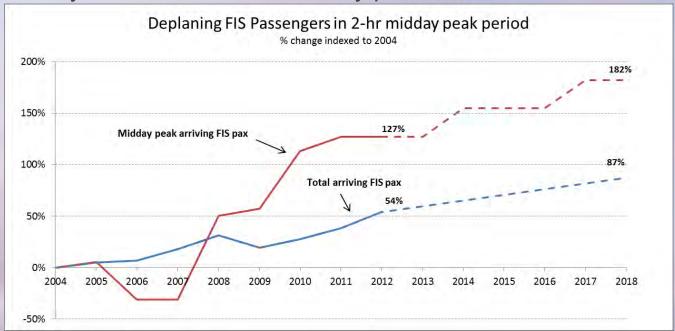
Making the most of the existing facility

- Upcoming short-term improvements
 - 2 new elevators
 - Removal of "grade crossing"
 - Reconfigured/improved TSA checkpoint
 - Public Address System
 - Improved wayfinding at FIS exit
- Developed plans for hardstand busing operation may begin summer 2013
- Developed plans for 12th South Satellite wide body gate
- Determined operational workarounds will not meet long-term needs



Projected international peak

- Anticipated 50% increase in peak hour, 600 passengers beyond capacity over the next 5 to 10 years
- Growth anticipated to come primarily from new service to Asia
- SEA is key to Delta's Pacific Gateway plan



Source: airline reports and flight schedules



Serious problems post 2018 without new IAF

- Passengers held on board aircraft
- Busing passengers from remote hardstands
- Backup at primary
- Lack of bag claim device capacity
- Checkpoint queue space exceeded
- Train system capacity exceeded
- Passengers missing connections to domestic flights
- Increasing aircraft towing with operations split onto two gates



SEA lagging competition

- Vancouver International Airport (YVR)
 - Aggressive strategy to reduce connection time and simplify the process for international passengers
 - \$600M in planned improvements, marketing and branding
- Other major international airports on the West Coast
 - Los Angeles & San Francisco have new and enlarged facilities
- Potential loss of market share

Vancouver



San Francisco



Los Angeles





Sea-Tac one of the oldest IAF facilities in North America

Rank	Airport	Recent (in operation)	Design	Planning
1	New York JFK (Terminal 1,4,7,8)	< 5 Yr		
2	Miami (Concourse J)	< 5 Yr		
3	Los Angeles (Bradley Terminal)	< 5 Yr		
4	Newark Liberty (Terminal B)		■ >20 Yr	
5	Chicago O'Hare	<15 Yr		
6	Atlanta	< 5 Yr		
7	Toronto	<10 Yr		
8	San Francisco	■ >10 Yr		
9	Houston Bush (Terminal E)	<10 Yr		
10	Washington Dulles	< 5 Yr		
11	Dallas Fort Worth	<10 Yr		
12	Philadelphia	< 5 Yr		
13	Vancouver	<10 Yr		
14	Boston Logan (Terminal E)	< 5 Yr		
15	Honolulu		■ >20 Yr	
16	Fort Lauderdale			■ >30 Yr
17	Orlando			■ >30 Yr
18	Detroit	<10 Yr		
19	Seattle-Tacoma			■ >40 Yr
20	Charlotte			■ >30 Yr
21	Minneapolis (Humphrey Terminal)	<10 Yr		
22	Las Vegas McCarran	< 5 Yr		



Airline partner coordination

- Series of meetings with Delta Air Lines
 - Meetings and tour of new Atlanta International Terminal
 - Worked with Delta representatives to develop and prioritize alternatives
 - Shared data and coordinated analysis of alternatives
 - Ensured alternatives are consistent with Delta's Pacific Gateway plans
- Meeting with AAAC and International Airline Station Managers

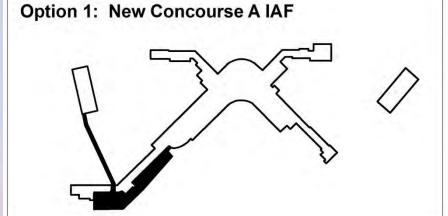


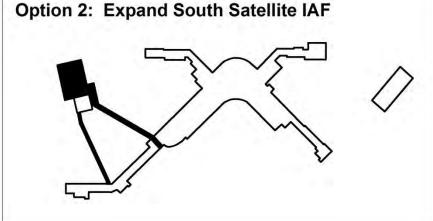
Long-term facility planning objectives

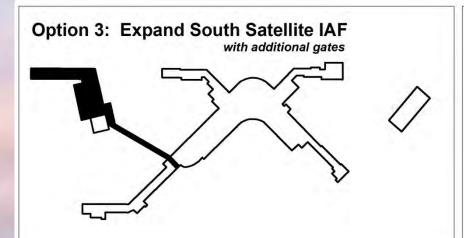
- Deliver just in time capital improvements
- Minimize capital and operational costs
- Minimize long-term cost of ownership
- Encourage international service
 - Minimize connect times for transfer passengers
 - Provide world class facilities/experience

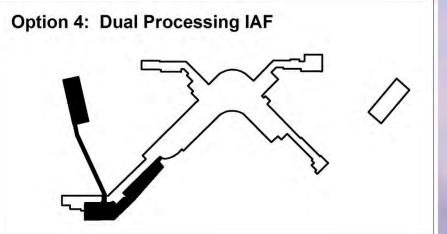


IAS expansion options











Option 1: New Concourse A IAF

- International arrivals on South Satellite and Concourse A
- Bridge or tunnel connection from South Satellite to Concourse A IAF
- Cost: \$250M \$300M



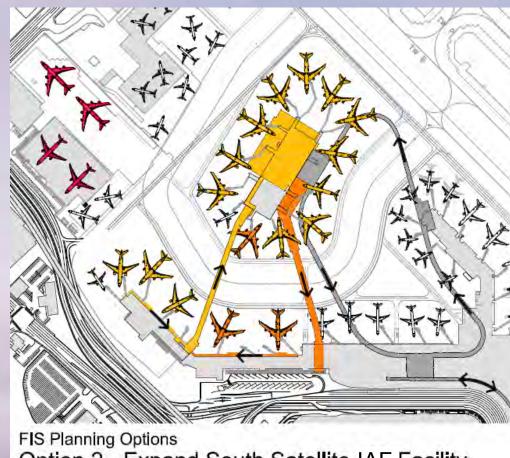


Option 2: Expand South Satellite IAF

- International arrivals on South Satellite and Concourse A
- Bridge or tunnel connection from Concourse A to South Satellite IAF
- Train connection from South Satellite to Concourse A
- Cost: \$320M \$385M

REJECTED

Underground expansion & train expensive w/ significant impacts to airside & FIS operations



Option 2 - Expand South Satellite IAF Facility



Option 3: Expand South Satellite IAF

- International arrivals on South Satellite only
- Above ground expansion accommodates 5 additional gates
- Train connection from South Satellite to Concourse A
- Cost: \$545M \$655M

REJECTED

- Most expensive of four options
- Above ground expansion requires relocation of Alaska Airlines maintenance hangar



FIS Planning Options
Option 3 - Expand South Satellite IAF Facility



Option 4: Dual Processing IAF

- International arrivals on South Satellite and Concourse A
- Existing South Satellite IAF renovation (transfer passengers)
- New Concourse A IAF (local passengers)
- Bridge or tunnel connection for two way flow between South Satellite and Concourse A
- Cost: \$335M \$405M





IAF Options 1 & 4 pros & cons

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	Option 1	Option 4
CRITERIA	New Concourse A IAF	Dual Processing IAF
Capital cost	+ \$250M - \$300M	O \$335M - \$405M
Constructability	➡ Build entire shell in Phase 1 - lower cost	 Build shell in two phases - higher cost Requires more square footage
	♣ Easy to maintain FIS ops during construction	 Conc A - Easy to maintain FIS ops during construction SSAT - Dificult to maintain FIS ops during construction
Customer experience	Local PAX exit IAF on landside	◆ Local PAX exit IAF on landside
terminating PAX (67% of total)	➡ International arrivals hall works as intended	 Congested PAX flow & confusing at aircraft exit
Customer experience	Difficult PAX connections - time and level changes	 Faster PAX connections - relatively difficult way-finding
transfer PAX (33% of total)		 Congested PAX flow & confusing at aircraft exit
Operational	♣ Lower O & M cost	Higher O & M cost
cost/efficiency		Requires more staff to operate
Anticipates longer-term development w/ least	♣ Anticipates bag claim expansion & mid-term train cpacity	Anticipates long-term train expansion
Ability to develop as gateway hub	 Slower PAX connections, could be made faster with additional investments elsewhere 	
	♣ Shorter baggage connections	 Longer baggage connections
Renewal of aging facility	♣ Renewal occurs as part of redevelopment	Renewal could be viewed as discretionary
Branding identity	+ Above ground landside location	 Above ground landside location (terminating PAX only)
	Natural advantages of views & daylight Bridge offers dramatic views of region	 Natural advantages of views & daylight Bridge offers dramatic views of region



Next steps

- Additional alternatives analysis
- Evaluation and recommendation of preferred option
- Project definition
- Environmental review
- Seek Commission design authorization summer 2013
 - Procure design services to begin work on preliminary design
 - Date of opening 5 years following project approval