

PORT OF SEATTLE
MEMORANDUM

COMMISSION AGENDA
STAFF BRIEFING

Item No. 3b
Date of Meeting February 23, 2016

DATE: February 17, 2016
TO: Ted Fick, Chief Executive Officer
FROM: Elizabeth Leavitt, Director, Aviation Planning and Environmental
Clare Gallagher, Senior Manager, Public Affairs
SUBJECT: Sustainable Airport Master Plan (SAMP) Roundtable Forums

SYNOPSIS

As the Port Commission begins a series of roundtables on topics related to Sea-Tac Airport's master plan, this memo serves to provide a brief update on the current status of SAMP planning. Staff will continue to brief the Commission on a number of master plan areas in a series of on-going briefings, seeking guidance from the Commission, and returning to Commission with the goal of narrowing the master plan alternatives to one or two alternatives which will be carried forward into environmental review later in 2016. The purpose of the Commission Roundtables, scheduled across separate commission meetings, will be to examine issues and hear from representatives in various fields related to airport growth and development. Four roundtables are proposed: beginning on February 23, a focus on the *Airport of the Future*. Future roundtables will include *Meeting the Needs of Airlines and the Traveling Public*; *Working with Communities*; and *Environmental Sustainability and Growth*.

SUMMARY OF SAMP PROGRESS

The SAMP team has completed airside simulation modeling to assess the capacity of the existing airfield and potential future capacity with identified capital improvements. Modeling determined that the airside will reach critical delay between 2029 and 2034 and that aprons for holding aircraft (aircraft hold positions) are essential to keeping aircraft moving and reducing delay.

Using the results of the modeling, the team allocated land to facilities in key functional areas based on a hierarchy of importance and the degree to which facility locations were driven by function.

The SAMP team evaluated one and two terminal options across a range of criteria in the following categories: cost, risk, flexibility, development (phasing & constructability) and level of service both during and post construction.

The SAMP team identified a number of operational strategies and relatively low cost capital projects that would be beneficial under a one or two terminal solution.

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The SAMP team is evaluating potential process and technology improvements that may decrease terminal requirements and potentially redefine the one terminal option. Additional work that will help shape alternatives and a future capital program includes: project phasing, cost estimates, locating support facilities and more detailed planning to set the geometry of a second terminal and supporting roadways.

At the Commission's request, staff is organizing a series of roundtables around issues related to airport growth and development, to provide broad context and background on regional interests and the airport industry beyond Sea-Tac Airport. Presenters will include subject matter experts, representative interests and Port staff. Topics covered at the roundtable on February 23 will include trends in airport growth and development; advances in passenger handling and facility technology; airport master planning around the U.S.; air cargo trends; and regional economic trends.

BACKGROUND

In September 2012, the Port Commission approved scope and budget of \$6,000,000 for the creation of a Sustainable Airport Master Plan (SAMP). Since October of 2014, staff has briefed the Commission five times on SAMP planning progress, including: forecast results and challenges associated with planning to accommodate forecast activity; and preliminary options for terminal, landside and cargo development.

The master plan process provides an opportunity to take a comprehensive assessment of facilities capacity and forecasted demand over 5-, 10-, and 20-year timeframes. Airport master plans are typically prepared approximately every 10 years. The last formal master plan for Sea-Tac was developed in the mid-1990s and was focused primarily on the third runway.

The primary objective of an airport master plan is to provide a roadmap for the phased redevelopment/expansion of facilities, maintaining a balance of capacity in all key functional areas. Overall airport system capacity is limited by functional areas with the least capacity. Terminal and landside facilities are generally balanced to the fixed capacity of the airfield. Through alternatives development and evaluation, the SAMP will culminate in a capital improvement program and plan of finance that will deliver cost-effective projects to remove capacity pinch points, increase efficiency, integrate sustainability considerations, and provide a high level of service to airport customers.

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ATTACHMENTS TO THIS BRIEFING

- None. Speaker material to follow.

PREVIOUS COMMISSION ACTIONS OR BRIEFINGS

- January 26, 2016 – Commission Briefing “Sustainable Airport Master Plan (SAMP) Planning Update”
- September 8, 2015 - Commission Briefing: "Sustainable Airport Master Plan (SAMP) Planning Update"
- April 28, 2015 - Commission Briefing: "Sustainable Airport Master Plan (SAMP) Planning Update"
- March 24, 2015 - Commission Briefing: "Briefing on Sea-Tac Cargo as part of the Sustainable Airport Master Plan (SAMP)"
- January 27, 2015 - Commission Briefing: "Sustainable Airport Master Plan (SAMP) Planning Update"
- October 7, 2014 - Commission Briefing: "Sustainable Airport Master Plan (SAMP) Forecast and Facilities Challenges"
- February 28, 2014 - Commission authorization to amend the existing Sustainable Airport Master Plan (SAMP) service agreement with Leigh Fisher Associates for IAF-related planning tasks for an increase of \$3,650,000 and a new total contract amount of \$9,650,000
- September 5, 2012 - Commission authorization for SAMP development and to advertise and execute a contract for consulting services for the SAMP, with a total estimated value of \$6 million
- August 14, 2012 - Commission deferred consideration of a request to approve funding for the Sustainable Airport Master Plan (SAMP)
- June 27, 2012 - Commission Briefing: "Terminal Development Challenges"