

Sea-Tac Airport

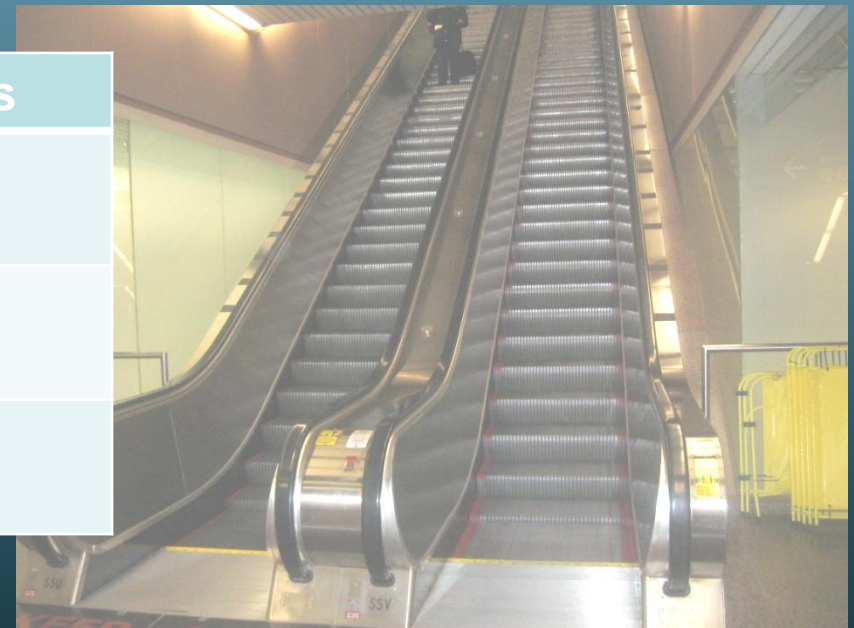
Renewing Mission Critical Infrastructure

Renewing Critical Infrastructure

- Vertical Circulation
- Electrical
- Mechanical
- Baggage
- Jet Bridges
- Roofs
- Pavement

Vertical Circulation

	Elevators	Escalators
Total	81	79
Accomplished/ Underway	14	48
Remaining	67	31



Electrical/Electronic Infrastructure

- **Systems & Equipment Renewed and Replaced**
 - **Medium Voltage Systems and Equipment (12Kv/4Kv)**
 - North & South Main Substations (50MVA)
 - 3 Power Distribution Centers
 - 30 Feeders and Ductbanks
 - 22 Main Power Centers
 - 9 Emergency Generators
 - Airfield Lighting Vault
 - **Electronic Systems and Equipment**
 - Backbone Communication System (fiber optic)
 - 800 MHz Radio System
 - Access Control System
 - Voice Paging System
 - **Lighting Systems**
 - Ramp Lighting
 - Terminal Lighting
 - Airfield Lighting (16L & 16R)



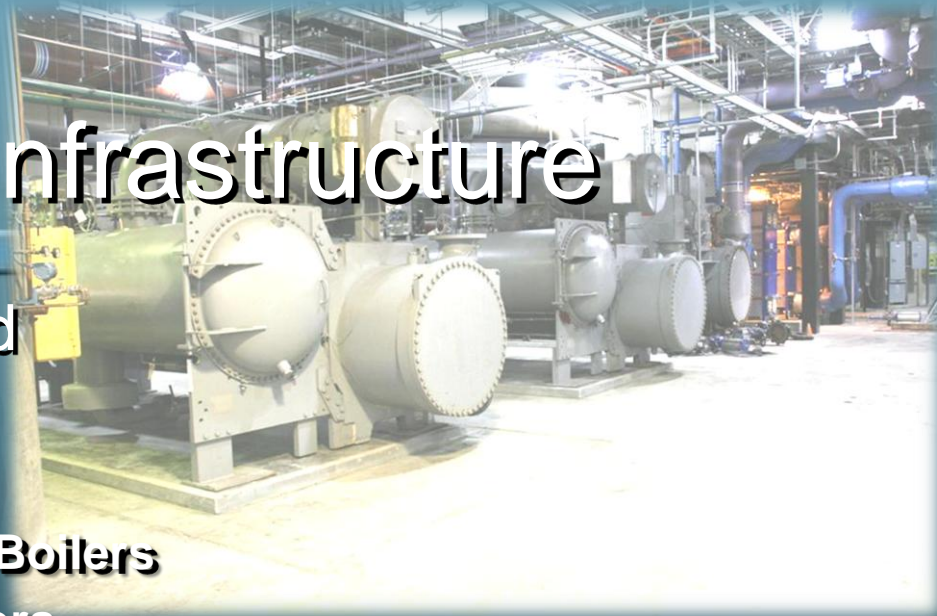
Electrical Infrastructure Systems

- **Remaining Renewal**
 - **Panels/Switchboards (over 1500)**
 - **Motor Control Centers (over 140)**
 - **Conduit and Wiring**
 - **Low Voltage Systems**
 - **Garage Emergency Lighting**
 - **Runway 16C Lights and Cable**



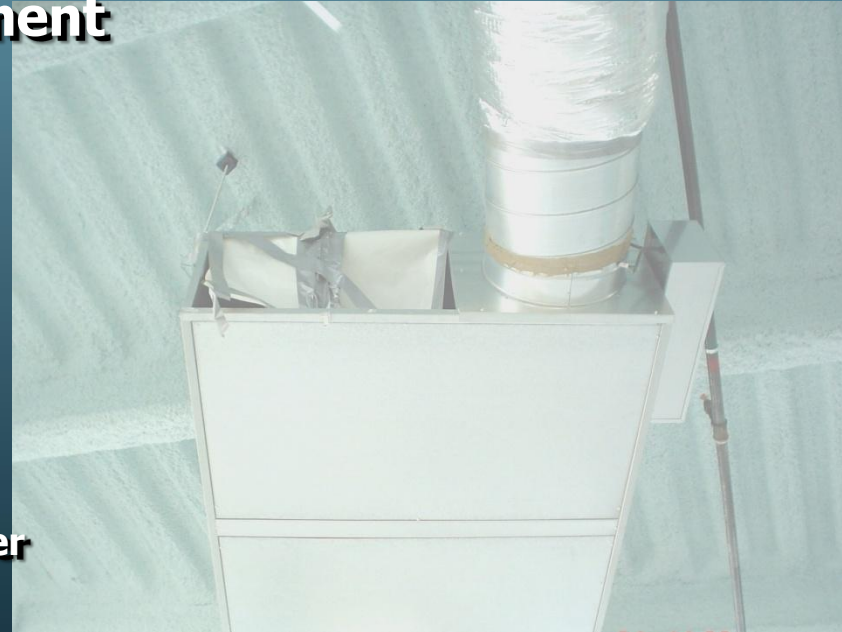
Mechanical Infrastructure

- **Already Renewed & Replaced**
 - **Central Mechanical Plant**
 - 6 New Chillers
 - 1 New Boiler/ Refurbished 3 Boilers
 - 3 New Control Air Compressors
 - 5 New Cooling Towers
 - 4 Main Air Intakes
 - 8 New Air Handling Units
 - Steam and Chilled Water Distribution Piping



Mechanical Infrastructure

- **Remaining for Renewal/Replacement**
 - **Primary Systems**
 - **Air Handling Units (over 20)**
 - **Piping Systems**
 - **Water Isolation Valves (20)**
 - **Secondary Systems**
 - **Secondary Piping Systems – Chilled Water**
 - **Air Terminal Units (over 500)**
 - **North and South Satellite: Controls**
 - **Dual Duct to Variable Air Volume Throughout Facility**



Baggage Infrastructure

- Overview
 - 15 Miles Conveyor
 - 29 EDS Machines
 - 3000 Motors
 - Screening & Sortation Components of Systems
- Remaining for Renewal/Replacement
 - Make-up and Claim Devices
 - Ticket Counter & Decline Conveyors
 - Cruise Ship Improvements
 - Programming to Increase Through-Put
 - TSA Mandated Improvements



Passenger Loading Bridges

- **Airport has 74 passenger loading bridges**
- **52 are Port owned bridges**
- **The Airport has been acquiring bridges from airlines incrementally as part of the common use strategy**
- **Bridges are in various condition states when acquired (usually fair to poor)**
- **Bridges generally need to be refurbished to ensure dependable and reliable operation**

Building Roof Infrastructure

Terminal Roof Area

1.1 Million Square Feet

- Last Major Reroof Program Occurred 1991 – 1997
- Concourses B, C, D, and N Sat Occurred in 1991
- Typical 10 – 15 Year Warranties Will Expire Soon

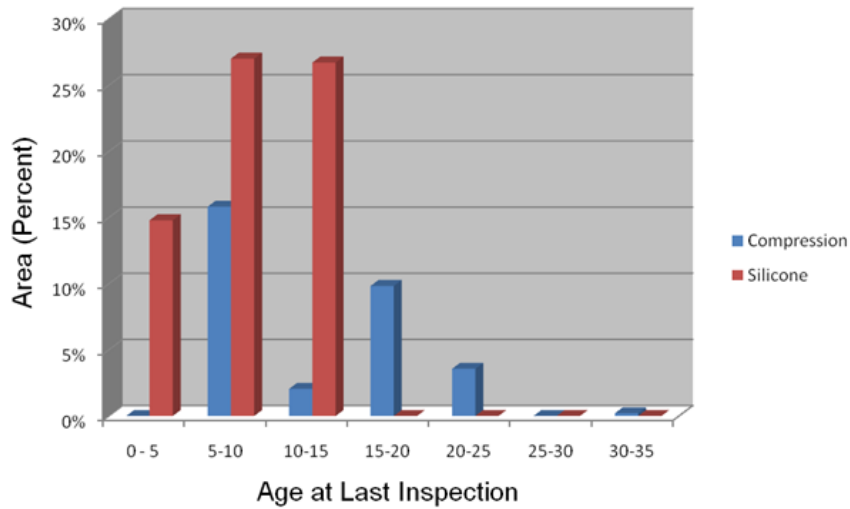


Pavement & Joint Seal Infrastructure



Joint Seal

Pavement



Summary

- We must maintain functional readiness.
- We must care for our assets to maximize their lives and minimize life cycle costs.
- We must manage our portfolio of assets to provide predictable future airport costs for consumers and workload for staff.
- We must carefully prioritize projects that consume precious capital investment capacity.