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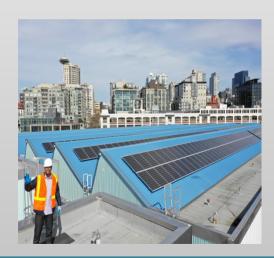
Meeting Date: April 23, 2019

Environment and Sustainability in Capital Projects



P69 Solar Panels

- Designed to generate approximately 127,000 kWh annually
- Offset greenhouse gas emissions by 1.8MtCO2 annually (4,400 miles)
- Projected to save \$10,000 in energy costs per year
- Grant funds from Dept of Commerce
- Photovoltaic panels constructed in Washington
- Designed and installed by Puget Sound Solar



North Satellite

- Water conservation
 - Rainwater harvesting
 - Low-flow fixtures
- Energy Conservation
 - 17% better than code
 - LED fixtures, daylighting
 - Insulation and glass
 - Efficient motors



NORTH SATELLITE



Water Conservation

 (2) 15,000 gallon tanks and piping being installed for rainwater harvesting use in restrooms



Use of ultra-low flow fixtures in restrooms

Waste Reduction

 95% construction waste diverted from landfills: Copper wire, wood, steel, pipe, aluminum, plastic, concrete, rebar, and other construction debris

Energy Conservation

- Energy savings, 17% below code
 - Entire building LED lighting
 - Daylighting optimization and lighting controllability
 - Insulation and glass
 - Baggage, escalator, elevator motor efficiency

LEED Status

 Design credits complete. Tracking construction credits (50% complete)

International Arrivals Facility

- Natural lighting and glare control
- Energy efficient lighting and roofing material
- Enhanced commissioning
 - Air pressure testing
 - Field water testing
- Construction waste recycling



INTERNATIONAL ARRIVAL FACILITY



Water Conservation

- Installation of "purple pipe" for future use of recycled water
- Use of ultra-low flow fixtures in restrooms



Waste Reduction

 95% construction waste diverted from landfills: Copper wire, wood, steel, pipe, aluminum, plastic, concrete, rebar, and other construction debris



Energy Conservation

- Energy savings, 12% below code
 - Entire building LED lighting
 - Daylighting optimization and lighting controllability
 - Advanced metering
 - Baggage, escalator, elevator motor efficiency



LEED Status

 Design credits complete. Tracking construction credits (50% complete)

CONCOURSE D ANNEX



Water Conservation

Use of ultra-low flow fixtures in restrooms



Waste Reduction

 98% construction waste diverted from landfills: Copper wire, wood, steel, pipe, aluminum, plastic, concrete, rebar, and other construction debris

Energy Conservation

- Energy savings, 20% below code
 - Entire building LED lighting
 - Daylighting optimization and lighting controllability
 - Insulation and glass
 - Radiant floor heating/cooling

LEED Status

 LEED process complete. Awaiting response from USGBC.

SEA-TAC AIRPORT LEED "MASTER SITE"



Water

- Outdoor Water Use Reduction
- Rainwater Management
- Metering



Innovation & Design

- Salmon Safe Certification
- Pollinator Conservation Program
- Vehicle Fuel Reduction Program
- Food Donation Program
- Green Janitorial Contract



Energy

- Refrigerant Management
- Metering



Materials

 Storage and Collection of Recyclables



Land Use

- Sensitive Land Protection
- Density and Diverse Use
- High Priority Site
- Access to Quality Transit

Greenhouse Gas Reductions

- Carbon reductions
 - Renewable Natural Gas
 - Energy Conservation
 - Solar
 - PCA/EGSE
 - Sustainable Aviation Fuels
- Carbon Capture/Sequestration
 - Smith Cove Blue Carbon Project
 - Trees planting
 - Land Stewardship Planning
 - Habitat Banking





