

DRAFT

Environmental Assessment for the Sustainable Airport Master Plan Near-Term Projects

Seattle-Tacoma International Airport

Seattle, Washington

PREPARED FOR

Port of Seattle

U.S. DEPARTMENT OF TRANSPORTATION

FEDERAL AVIATION ADMINISTRATION

As lead Federal Agency pursuant to the National Environmental Policy Act of 1969

PREPARED BY

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This environmental assessment becomes a Federal document when evaluated, signed, and dated by the Responsible FAA Official.

Responsible FAA Official

Date



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Acronyms

Acronym	Acronym Definition
AAA	Airport Activity Area
AC	Advisory Circular
ACEIT	Airport Construction Emissions Inventory Tool
ACHP	Advisory Council on Historic Preservation
ACR	Air Cargo Road
AEDT	Aviation Environmental Design Tool
AFFF	Aqueous Film-Forming Foam
AIP	Airport Improvement Program
ALP	Airport Layout Plan
AMF	Aviation Maintenance Facility
AOA	Airport Operations Area
APE	Area of Potential Effect
APU	Auxiliary Power Unit
ARFF	Aircraft Rescue and Firefighting
BE	Biological Evaluation
BGPA	Bald and Golden Eagle Protection Act
BMPs	Best Management Practices
BOD	Biochemical Oxygen Demand
BP	British Petroleum
BPA	Bonneville Power Administration
CAA	Clean Air Act
CATEX	Categorical Exclusion
CBRS	Coastal Barrier Resources System
CEQ	Council on Environmental Quality
CFR	Code of Federal Regulations
CH ₄	Methane
CIP	Capital Improvement Plan
CNG	Compressed Natural Gas
CO ₂	Carbon Dioxide
CO ₂ e	Carbon Dioxide Equivalent
CO	Carbon Monoxide
COGS	Constrained Operating Growth Scenarios
CRDC	Centralized Receiving and Distribution Center
CWA	Clean Water Act
CZM	Coastal Zone Management
CZMA	Coastal Zone Management Act
CZMP	Coastal Zone Management Program
DAHP	Department of Archaeology and Historic Preservation
dB	Decibel
DNL	Day-Night Noise Level



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Acronym	Acronym Definition
DNS	Determination of Nonsignificance
DOE	Department of Energy
DOI	Department of the Interior
DOJ	Department of Justice
EA	Environmental Assessment
EFH	Essential Fish Habitat
EIS	Environmental Impact Statement
EO	Executive Orders
EJSCREEN	Environmental Screening Justice Screening and Mapping Tool
ESA	Endangered Species Act
FAA	Federal Aviation Administration
FEMA	Federal Emergency Management Agency
FFRMS	Federal Flood Risk Management Standard
FHWA	Federal Highway Administration
FIRM	Flood Insurance Rate Maps
FONSI / ROD	Finding of No Significant Impact / Record of Decision
FR	Federal Register
GHG	Greenhouse Gas
GSA	General Study Area
GSE	Ground Support equipment
GT	Ground Transportation
GTC	Ground Transportation Center
GWMA	Groundwater Management Area
GWP	Global Warming Potential
H ₂ O	Water Vapor
HCS	Highway Capacity Software
HFC	Hydrofluorocarbons
HOV	High Occupancy Vehicle
IATA	International Air Transport Association
ILA	Interlocal Agreement
IPCC	Intergovernmental Panel on Climate Change
IWD	Industrial Waste Department
IWS	Industrial Wastewater system
IWTP	Industrial Wastewater Treatment Plant
LOS	Level of Service
LWCF	Land and Water Conservation Fund
LTV	Long-Term Vision
MAP	Million Annual Passengers
MBTA	Migratory Bird Treaty Act
MHI	Median Household Income
MOU	Memorandum of Understanding
MOS	Modification of Standards



Acronym	Acronym Definition
MOVES	Motor Vehicle Emissions Simulator
MSW	Municipal Solid Wastes
MT	Metric Tons
MTCA	Model Toxics Control Act
MW	Megawatt
NAAQS	National Ambient Air Quality Standards
NAE	North Airport Expressway
NAP	Natural Area Preserves
NAVAIDS	Navigational and Visual Aids
NEPA	National Environmental Policy Act
NEPL	North Employee Parking Lot
NERA	Northeast Redevelopment Area
NHPA	National Historic Preservation Act
NMFS	National Marine Fisheries Service
NOAA	National Oceanographic and Atmospheric Administration
N ₂ O	Nitrous Oxide
NO ₂	Nitrogen Dioxide
NO _x	Oxides of Nitrogen
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
NPS	National Parks Service
NRCA	Natural Resource Conservation Areas
NRHP	National Register of Historic Places
NTPs	Near-Term Projects
O ₃	Ozone
PAPI	Precision Approach Path Indicator
Pb	Lead
PCI	Pavement Condition Index
PFAS	Per- and polyfluoroalkyl substances
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctanesulfonic Acid
P.L.	Public Law
PM _{2.5}	Fine Particulate Matter Less than or Equal to 2.5 Microns Aerodynamic Diameter
PM ₁₀	Particulate Matter Less than or Equal to Ten Microns Aerodynamic Diameter
PMP	Pavement Management Program
Port	Port of Seattle
PSCAA	Puget Sound Clean Air Agency
PSE	Puget Sound Energy
PSRC	Puget Sound Regional Council
PUD	Planned Unit Development
RCRA	Resource Conservation and Recovery Act
RIM	Runway Incursion Mitigation



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Acronym	Acronym Definition
RNG	Renewable Natural Gas
RON	Remain Over Night
SAF	Sustainable Aviation Fuel
SAMP	Sustainable Airport Master Plan
SCE	South Concourse Evolution
SCL	Seattle City Light
SDS	Stormwater Drainage System
SEA	Seattle-Tacoma International Airport
SEPA	State Environmental Policy Act
SF ₆	Sulfur Hexafluoride
SHPO	State Historic Preservation Officer
SIP	State Implementation Plan
SO ₂	Sulfur Dioxide
SPU	Seattle Public Utilities
SR	State Route
STSA	Surface Transportation Study Area
SWMP	Stormwater Management Program
SRKW	Southern Resident Killer Whale
SWPPP	Stormwater Pollution Prevention Plan
THPO	Tribal Historic Preservation Officer
TIP	Transportation Improvement Program
TRACON	Terminal Radar Approach Control Facility
TRB	Transportation Research Board
U.S.C.	United States Code
UMP	Utility Master Plan
USACE	U.S. Army Corp of Engineers
USEPA	U.S. Environmental Protection Agency
USDOT	U.S. Department of Transportation
USFWS	U.S. Fish and Wildlife Service
VCP	Voluntary Cleanup Program
VOC	Volatile Organic Compounds
WA	Washington State
WB	West Bound
WHPA	Wellhead Protection Areas
WSDE	Washington State Department of Ecology
WSDOT	Washington State Department of Transportation