

Oregon Fuel Action Plan

Multnomah County Fuel Plan Seminar

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January 31, 2022



Oregon Imports 100 Percent of the State's Refined Petroleum Products

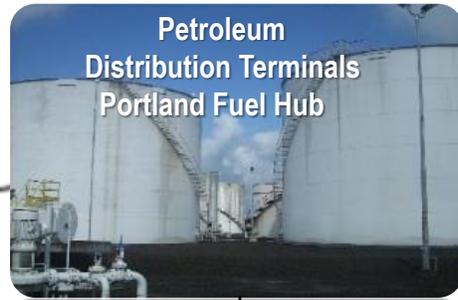
- Washington refineries supply more than 90 percent
 - ✓ About 75 percent by Olympic Pipeline to Oregon
 - ✓ Remaining product by tanker ships to Oregon
 - ✓ Portland Fuel Hub – located on liquefiable soils

Anticipate significant fuel supply loss post Cascadia

- Utah refineries supply less than 5 percent to eastern Oregon communities
- California refineries supply less than 5 percent to southern Oregon communities



Oregon Fuel Supply & Distribution System



- Annual fuel imports estimated at three billion gallons
- Six day fuel delivery cycle
- Product delivered throughout Oregon by pipeline, barges, and tanker trucks



Pipeline to Eugene Terminal & Portland International Airport



Barges on Columbia to Eastern Oregon



Est. 1,500 Tanker Trucks Throughout Oregon



Est. 2,400 Fueling Locations

Anticipate significant impacts to the distribution system post Cascadia

OREGON FUEL ACTION PLAN



Plan, Prepare, Respond, & Recover
Severe Fuel Shortages

Create new temporary fuel supply chains into Oregon and establish new delivery systems into impacted areas

- Identifies 9 Actions ODOE will take to direct the state's overall response to petroleum emergencies
- Provides coordination structure for federal, state, county, tribal, and petroleum industry partners
- Provides structure for fuel allocation that identifies pre-approved priority users of fuel and user responsibilities
- Identifies state and county priority lifeline routes to support fuel deliveries
- Pre-designates Fuel Points of Distribution (FPOD) for receiving emergency fuel
- Plan on ODOE website - www.Oregon.gov/ENERGY

Oregon Fuel Action Plan: Scalable for All-Hazards



ODOE activated fuel plan strategies in response to COVID 19, Wildfires, and Winter Storms

COVID 19: March 2019 – Present

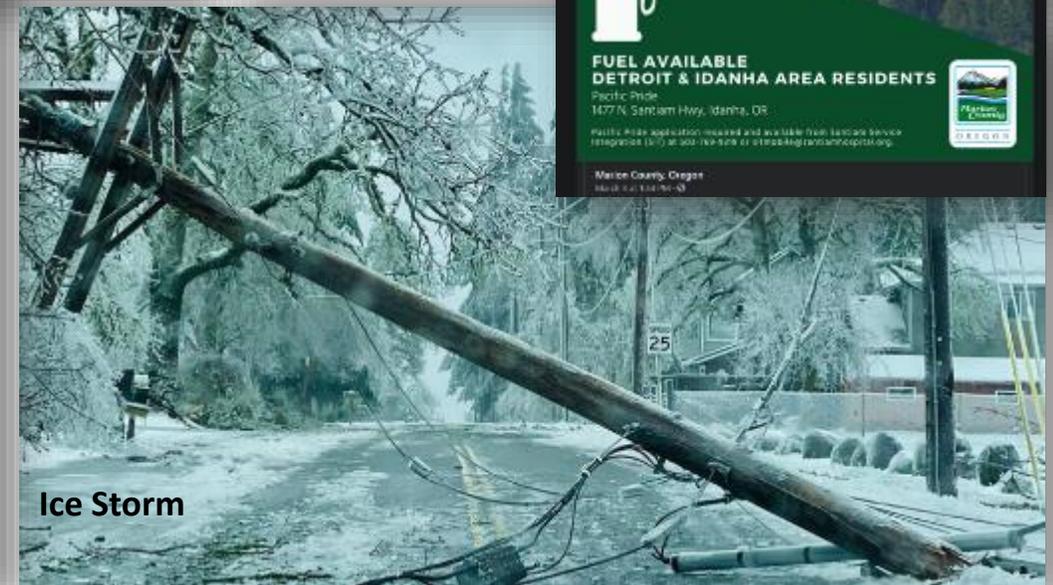
- Coordinated Hours of Service Waiver
- Coordinated Reed Vapor Recovery Waiver
- Obtained 14,000 cloth masks and 1,075 non-contact infrared thermometers for critical fuel workforce

Wildfires: September 2020 - February 2021

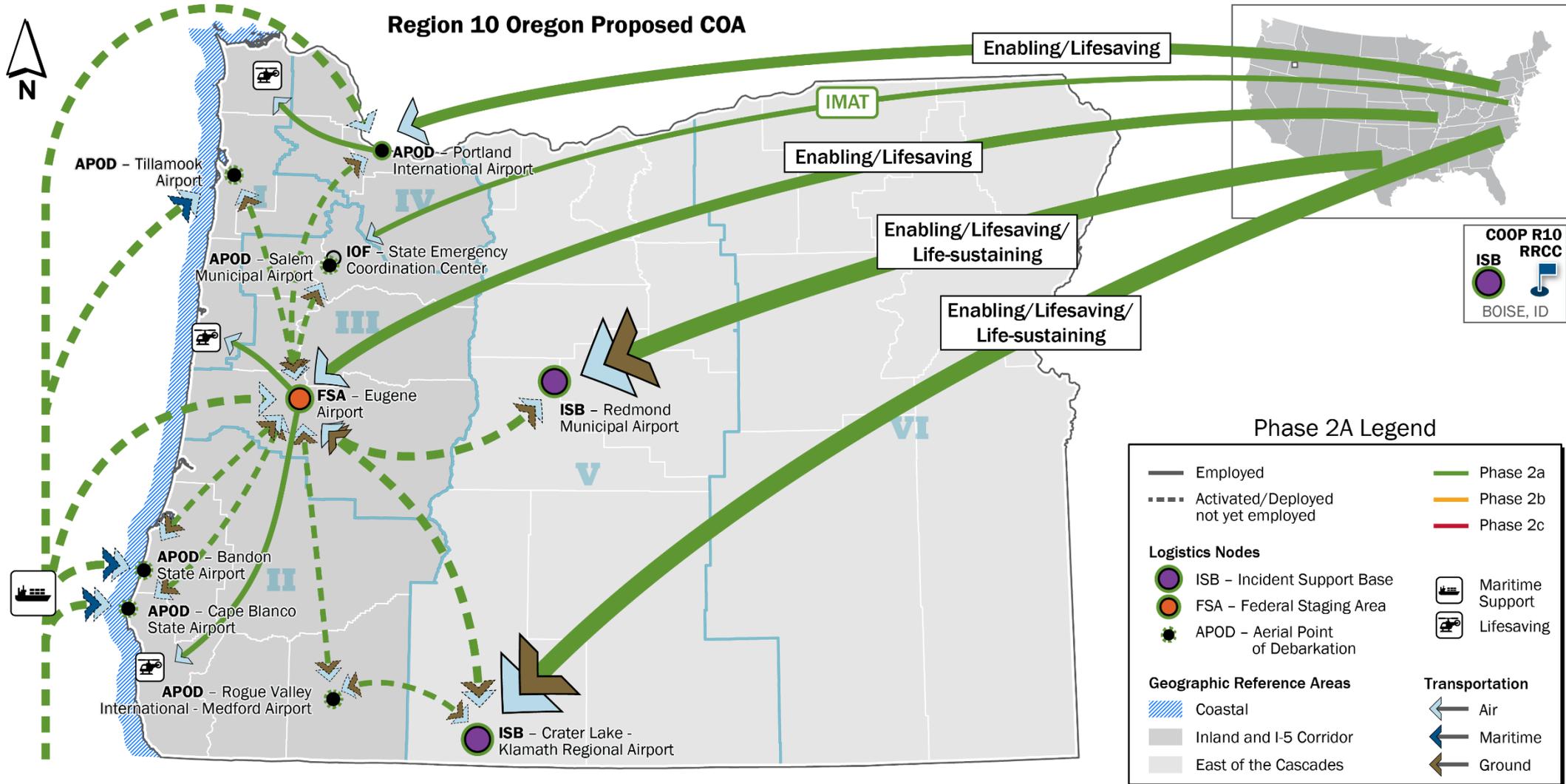
- Coordinated Hours of Service Waiver
- Ensured Ethanol deliveries by rail to Eugene
- Assisted cardlock facility to obtain Conditional Use License to sell unleaded fuel to residents

February 2021 Ice Storm

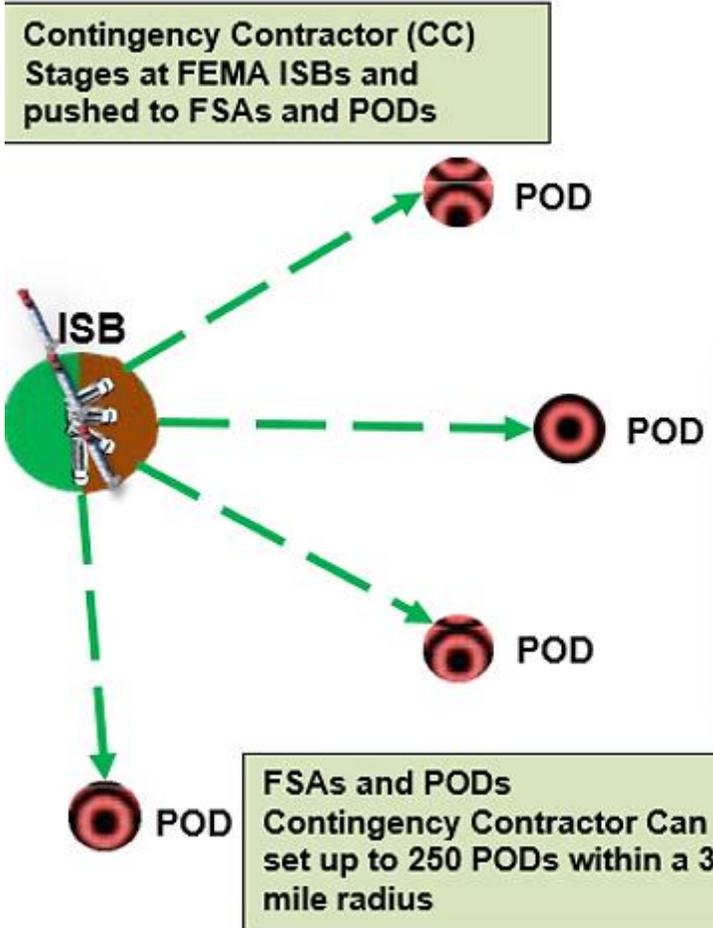
- Coordinated fuel deliveries to critical facilities
- Coordinated the increase of fueling limits for 1st responders at cardlock facilities



FEMA CSZ Concept of Operations - Oregon



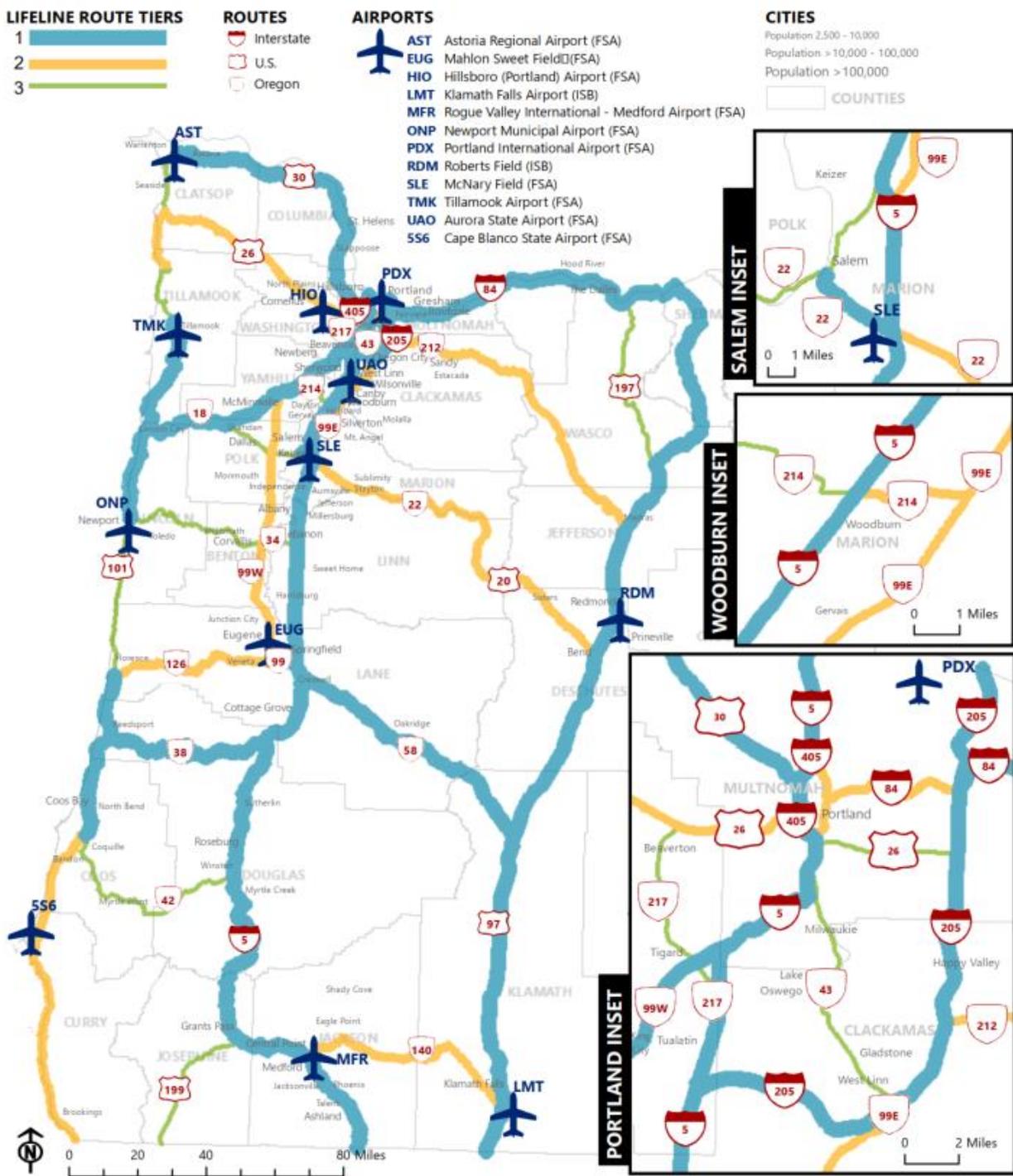
CSZ Planning Assumptions



Day	C Day	C+1	C+2	C+3	C+4	C+5	C+6	C+7	C+8	C+9
Hours	24 Hrs.	48 Hrs.	72 Hrs.	96 Hrs.	120 Hrs.	144 Hrs.	168 Hrs.	192 Hrs.	216 Hrs.	240 Hrs.
Total Diesel Quantity (USG)	0	0	329,500	662,500	992,000	1,325,000	1,654,500	1,987,500	2,317,000	2,650,000
Total Diesel Quantity Mogas (USG)	0	0	333,000	662,500	995,500	1,325,000	1,658,000	1,987,500	2,320,500	2,650,000
Total Number of Trucks	0	0	125	250	375	500	625	750	875	1000
Line Haul Trucks (8,000 USG)	0	0	50	100	150	200	250	300	350	400
Retail Trucks (3,500 USG)	0	0	75	150	225	300	375	450	525	600

- Resources listed would support Oregon and Washington fuel needs
- DLA added Jet A and propane to FEMA's fuel contract in 2019
 - Add 24 hours to planning assumptions table for jet fuel deliveries
 - Propane presents greatest challenge – planning assumptions TBD

Proposed Fuel Strategies



From Federal Incident Support Bases

Redmond Airport

- Highway 97 to Highway 58 to the Eugene Airport

Crater Lake Klamath Regional Airport

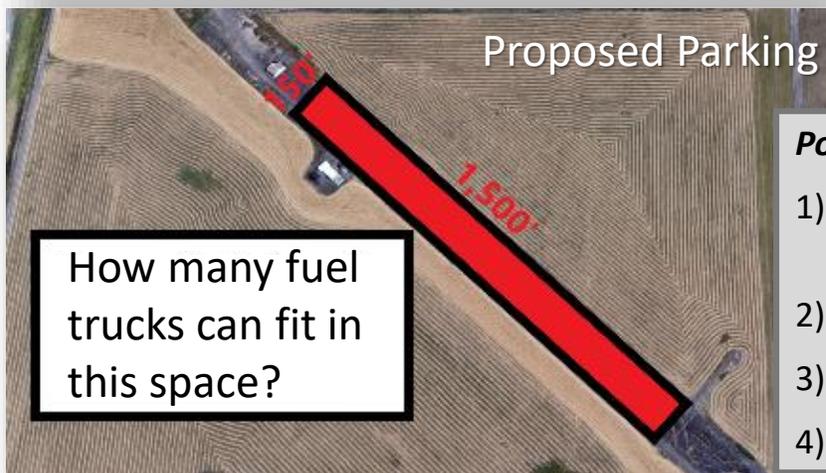
- Highway 97 to Highway 140 to the Rogue Valley International Medford Airport

Fuel strategies based on Oregon seismic lifeline routes and preliminary airport designations



Designate Parking for Fuel Trucks

- ODOE working with fuel distributors and Aviation to assess parking at airport staging areas
- Fuel Truck Parking Area Requirements:
 - Tractor trailer trucks (75') – est. 10,000 gallons
 - Standard tanker trucks (24' - 32') – est. 2,700 - 4,200 gallons
 - 3' spacing around trucks for navigating parking areas
 - Tractor trailer trucks require pulling straight out of parking areas
- Airport Fuel Parking Assessment Schedule:



Possible Options:

- 1) Est. **114** 75' Tractor Trailer Trucks
Est. **42** 32' Tanker Trucks
- 2) Est. **294** 32' Tanker Trucks
- 3) Est. **385** 24' Tanker Trucks
- 4) Est. **190** 75' Tractor Trailer Trucks

- Eugene Airport: **1-13-22**
- Rogue Valley Int'l Medford Airport: **1-25-22**
- Hillsboro Airport – TBD 2022
- Salem Airport – TBD 2022
- Portland Int'l Airport (Terminal 6) – TBD 2022



Proposed Designated Parking for Fuel Trucks

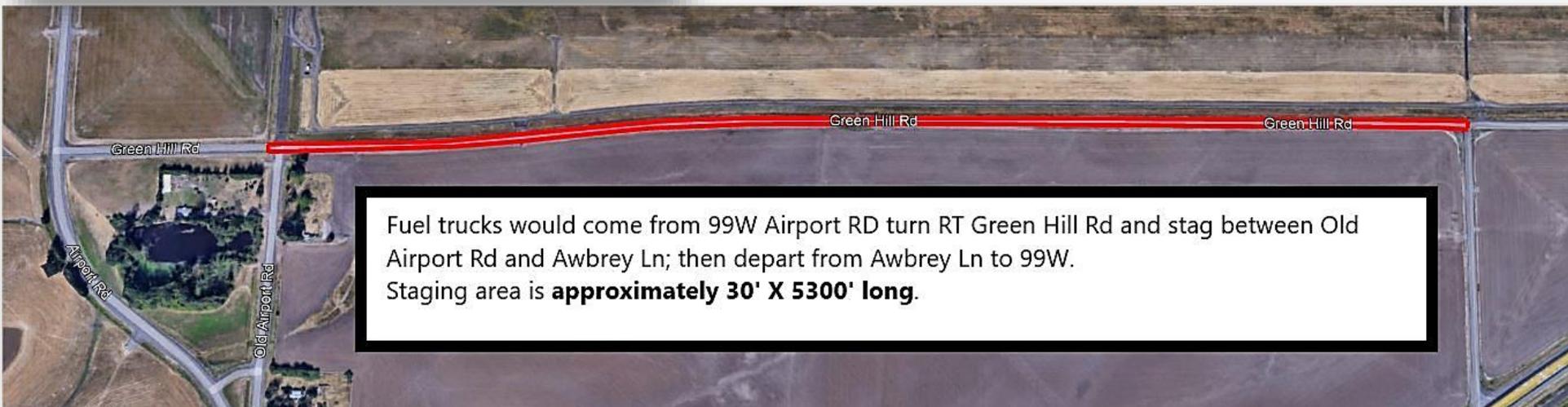
← Rogue Valley International Medford Airport

- Parking area size - TBD



Eugene Airport Update

- Awaiting Lane County approval - TBD



State Agency Fuel Sites Assessment



Moving Fuel from Airport Staging Areas to Impacted Communities

- ODOE coordinating with ODOT, DAS, Corrections, and Forestry to identify fueling sites by county
- ODOE to develop data layers to map state fueling sites over ODOT lifeline routes and RRAP Airport Staging Areas

County	City	Name	Address	State	Zip	Capacity (Gallons)	Fuel Type	Above ground Underground	Backup Power	Secure Access	How many days can you operate with fuel on hand?	Estimated Need (3 wk)	Comments
Coastal Counties													
Coos	North Bend	Shutter Creek Correctional Institution	95200 Shutters Landing Lane	OR	97459	500	Unleaded	Above	No	Yes		0	30 day supply
Coos	North Bend	Shutter Creek Correctional Institution	95200 Shutters Landing Lane	OR	97459	750	Diesel	Above	No	Yes	Normal Operations can run for 25-30 days Emergency Operations can run for 4-5 days on generator power	2250	5-7 day supply
Coos	North Bend	Shutter Creek Correctional Institution	95200 Shutters Landing Lane	OR	97459	3000	Propane	Above	No	Yes		9000	5-7 day supply
Tillamook	Tillamook	South Fork Forest Camp	48300 Wilson River Hwy	OR	97141	30	Unleaded	Above	Yes				SFFC could sustain up to 3 weeks
Tillamook	Tillamook	South Fork Forest Camp	48300 Wilson River Hwy	OR	97141	60	Propane	Above	Yes		Normal operations can run for 4-5 weeks Emergency operations can run for 2-3 weeks on generator power		
Tillamook	Tillamook	South Fork Forest Camp	48300 Wilson River Hwy	OR	97141	10,000	Propane	Above	Yes				
Tillamook	Tillamook	Oregon Department of Forestry	48300 Wilson River Hwy	OR	97141	3000	Unleaded	Above					ODF refuels every 2-3 months when they drop
Tillamook	Tillamook	Oregon Department of Forestry	48300 Wilson River Hwy	OR	97141	3000	Diesel	Above					
Tillamook	Tillamook	Oregon Department of Forestry	48300 Wilson River Hwy	OR	97141	1,500	Propane	Above					
Portland Metro Counties													
Multnomah	Portland	Columbia River Correctional Institution	9111 NE Sunderland Ave	OR	97211	30	Unleaded	Above	Yes	Yes		630	
Multnomah	Portland	Columbia River Correctional Institution	9111 NE Sunderland Ave	OR	97211	60	Diesel	Above	Yes	Yes	Emergency operations can run 2-3 days on generator power	1260	
Multnomah	Portland	Columbia River Correctional Institution	9111 NE Sunderland Ave	OR	97211		Propane	Above					
Washington	Wilsonville	Coffee Creek Correctional Facility	24499 SW Grahams Ferry Rd	OR	97070	900	Unleaded	Above	Yes	Yes	Normal operations can run for 2-4 days	1,000	
Washington	Wilsonville	Coffee Creek Correctional Facility	24499 SW Grahams Ferry Rd	OR	97070	900	Diesel	Above	Yes	Yes	Emergency operations power can run for 2-4 days under generator power	2,000	The generator has 900 gallons of diesel fuel on hand. Each of the four generators hold approximately 900 gallons in each set
Washington	Wilsonville	Coffee Creek Correctional Facility	24499 SW Grahams Ferry Rd	OR	97070	17,000	Propane	Above	Yes	Yes		0	
I-5 Corridor Counties													
Marion	Salem	Central Distribution Center	3601 State Street	OR	97301	0	Unleaded						
Marion	Salem	Central Distribution Center	3601 State Street	OR	97301	10,000	Diesel	Above		Yes	Normal operations can run for 5-6 weeks Emergency operations can run for 3-4 weeks with full generator power		
Marion	Salem	Central Distribution Center	3601 State Street	OR	97301	0	Propane						
Marion	Salem	Mill Creek Correctional Facility	5465 Turner Road SE	OR	97317	0	Unleaded						
Marion	Salem	Mill Creek Correctional Facility	5465 Turner Road SE	OR	97317	500	Diesel	Above			Emergency operations can run for 2-3 days on generator power		**NOTE** set to close June 2021



Emergency Services and Critical Infrastructure Fuel Needs



Oregon Revised Statue 176.750-820 authorizes the Oregon Department of Energy (ODOE) to develop and maintain a statewide contingency plan in response to petroleum disruptions that impact Oregon. ODOE developed the Oregon Fuel Action Plan and strategies to ensure adequate supplies of diesel, unleaded, jet fuel, and propane are available to support the state's response and recovery efforts during state declared emergencies. ODOE will work with the petroleum industry and federal agencies to secure and deliver emergency bulk fuel supplies to support emergency and essential services providers. ODOE strategies include establishing new supply chains into the state should a Cascadia event or other major disaster compromise the fuel terminals at the state's Critical Energy Infrastructure (CEI) Hub and the Pacific Northwest petroleum infrastructure.

ODOE worked with state agencies responsible for critical lifelines and services in Oregon to identify potential fuel needs for accomplishing critical missions. The list of critical missions identified will assist decision-makers to prioritize fuel needs for allocations when fuel supplies are limited in the aftermath of a Cascadia (CSZ) event or other major disaster. The critical missions identified are aligned with the Federal Emergency Management Agency's Community Lifelines Construct <https://www.fema.gov/emergency-managers/practitioners/lifelines>.

ODOE will develop a state-wide fuel allocation methodology to ensure the equitable distribution of fuel to state, county, and tribal priority fuel users.

ODOE Mission: Provide adequate fuel supplies to support damage assessment, repairs, and restoration and operation of community lifelines that enable continuous operation of critical government and business functions that are essential to human health and safety or economic security.

- Lifelines are the most fundamental services in the community that, when stabilized, enable all other aspects of society to function
- Lifelines are the integrated network of assets, services, and capabilities that are used day-to-day to support the recurring needs of the community
- When disrupted, decisive intervention (rapid service re-establishment or employment of contingency response solutions) is required to stabilize the incident

FOOD, WATER, SHELTER – FUNCTIONAL MISSIONS REQUIRING FUEL



Supports community needs for food, water, and shelter. This includes evacuations, water infrastructure, and agricultural infrastructure.

ESF 6: Mass Care – Oregon Department of Human Services

Coordinate and provide life-sustaining and human services to affected populations. This includes hydration, feeding, sheltering, temporary housing, evacuee support, reunification, and distribution of emergency supplies. Fuel required for:

Emergency Sheltering

- Supporting ground transportation for equipment, personnel and supplies to predesignated assembly points/distribution points.
- Powering generators at shelter locations (lights, workstations, medical equipment, etc.).
- Powering generators for communications equipment.
- Supporting power generation for hygiene, and sanitation systems.
- Supporting survivor movement between various sites including Assembly Areas, Shelter locations, Survivor locations, Triage points.

Feeding and Hydration

- Supporting ground transportation for equipment, supplies (including bottled water, and potable water tankers) to predesignated assembly points, distribution points and shelter locations.
- Powering food refrigeration storage units.
- Powering food preparation equipment including generators and mobile kitchens.
- Powering water purification systems.
- Powering generators for communications equipment.

Evacuee Support and Reunification

- Powering generators for equipment to process survivor registry and reunification.
- Supporting survivor movement between various sites including Assembly Areas, Shelter locations, Survivor locations, triage points.
- Powering generators for communications equipment.

Bulk Distribution of Emergency Supplies

- Delivering equipment and supplies to islanded and inaccessible locations.
- Powering generators at distribution/logistics management sites.
- Powering generators for communications equipment.

Public Life Safety Operations (Communications):

- Powering generators to support ESF 6 POD Runners for backup communications capabilities.

DRAFT



Federal Bill Provides Funding to State Energy Offices for State Energy Security Plan

Plan Requirements:

- Assessment of a state's energy system
- Assessment of potential hazards and propose risk mitigation approach
 - Physical and Natural Hazards
 - Cybersecurity Risks
- Regional collaboration with neighboring states
 - Western States Petroleum Collaborative and National Association of State Energy Officials Energy Security Committee
- Collaboration with key stakeholders
 - State, local, and tribal governments and public-private sector energy providers
- Annual Letter of Certification from Governor to USDOE



ODOE to lead plan development and will report back to stakeholders on plan development efforts

Thank You!

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