

# Safety

## DESIGNED WITH SAFETY IN MIND

Throughout project development, construction, and operation, safety will remain a top priority for Jordan Cove LNG and Pacific Connector Gas Pipeline.

The Jordan Cove Project, encompassing the natural gas liquefaction facility, export terminal and Pacific Connector Gas Pipeline, has been designed to meet or exceed the most stringent industry safety standards, codes, and regulations. All safety design specifications and construction standards will be reviewed and certified by the appropriate local, state, and federal regulating agencies to ensure compliance.

A number of additional site and project specific safeguards, protection and mitigation measures, including state-of-the-art technologies and automatic emergency detection and shut-down systems, have been incorporated to ensure safe and secure operations, and protection of the community, employees, and the environment.

The terminal will include an advanced notification system, with alarms and sirens and well-identified egress pathways in the unlikely case of an incident.

Sophisticated modeling analysis, in conjunction with boundary walls, will prevent hazards from occurring outside the property boundary due to heat, gas and overpressure.

Life safety due to Tsunami is provided by provision of site elevations greater than those required by code. For on-site personnel, elevations at least equal to the DOGAMI XXL1 (>10,000 year) will be provided.



## DESIGNED TO WITHSTAND SEISMIC ACTIVITY

Over the past 170 years, the Coos Bay Area has experienced relatively low seismic activity. However, it is now well understood that the Oregon coast may be susceptible to a large magnitude earthquake associated with the Cascadia Subduction Zone (CSZ).

All the Project's critical foundations and structures have been designed to resist a 9.3 magnitude CSZ earthquake. Plans will also be put in place to ensure any potential hazards created by an earthquake, including soil liquefaction, are mitigated.

All critical LNG facilities are designed to meet Safe Shutdown Earthquake standards, whereby certain structures, systems, and components that are critical to safety would remain functional in the event of an earthquake.

Jordan Cove LNG and Pacific Connector Gas Pipeline are committed to meeting or exceeding existing safety and environmental laws, regulations and appropriate industry standards at each of our facilities in respect of the health and safety of its employees and the public, and for the protection of the environment. Project executives, management, staff and contractors are each responsible for understanding and fulfilling all safety and environmental expectations.

## TSUNAMI SPECIFIC DESIGN SAFETY FEATURES

To address tsunami hazards at the LNG terminal and South Dunes site, all buildings designated as 'shelter in place' sites or 'vertical tsunami refuges' will be built to the same elevations designated in evacuation protocols for North Bend and Coos Bay. Vertical tsunami refuges shall be at or above an elevation of 52 ft. at the South Dunes site, and at or above 60 ft. at the LNG terminal site.

Every element of the terminal and South Dunes facilities deemed critical for operations and safety has been designed to meet or exceed the projected elevation of a 2,500-year tsunami event (+34.5 ft.), as required by code. The LNG processing areas will be built to an elevation of 46 ft. or above.

Planned safety features include a 46 ft. high impervious berm to protect the LNG tanks and provide on-site containment of a single 160,000 m<sup>3</sup> LNG tank in the highly unlikely event of a breach.

## SOUTHWEST OREGON REGIONAL SAFETY CENTER

We're following through on our commitment to the State of Oregon by building the Southwest Oregon Regional Safety Center (SORSC) on South Dunes.

The fully operational security and safety complex will include the Jordan Cove Security Center and the Emergency Operations Center serving Coos County and Jordan Cove LNG (JCLNG). The SORSC will house surveillance, communications, and command and control systems to support security and response operations and provide emergency dispatch capabilities for the entirety of Coos County.

Key technology platforms in the SORSC include the Common Operational Picture (COP), providing real time situational awareness during operations and in the event of emergency response. Also, the newly established Vessel Traffic Information System (VTIS) will be used to schedule and manage vessel traffic through the channel. The SORSC will also include the public notification system, alert sirens and reader boards.

The primary resident agencies in the SORSC will be the Coos County Sheriff's Office, Coos County Emergency Management, the Port of Coos Bay, and Emergency Planners from the state, county, and the Cities of North Bend and Coos Bay.

A continuously manned Jordan Cove Fire Station will be located at a separate facility located between Ingram Yard and South Dunes. The station will be commanded by a Jordan Cove Fire Chief and staffed with fully trained industrial fire fighters. The station's proximity to the facility allows for a four-minute response time to the LNG facility as required by the State of Oregon.

## LNG FIREFIGHTING SCHOOL

To ensure our industrial firefighters and local first responders are trained to manage potential hazards during terminal operation, we will establish an LNG firefighting school through our partnership with the Southwest Oregon Community College (SOCC). The school will train firefighters from the ground level up to and including LNG firefighting. The new school will also serve as a location where local fire departments can continue training personnel. Facilities will include the fire training tower located at the SOCC and an LNG burn basin located at the Tioga Sports Park to conduct live fire burning exercises.



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