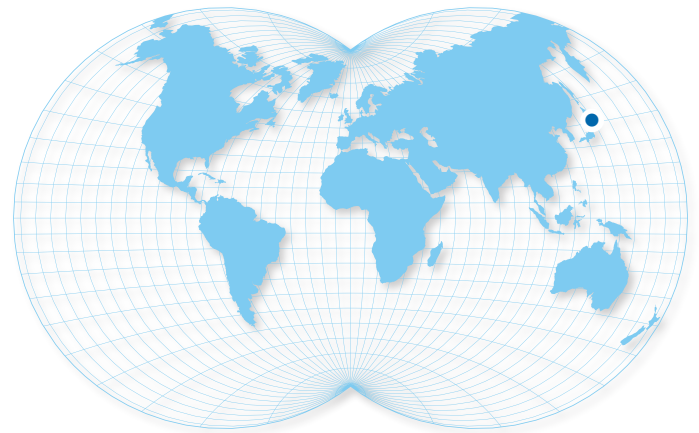


MUTSU, JAPAN:

JNOC – MOOS SALM®



Scope of Work

SOFEC designed, constructed, and supervised installation of the first SALM terminal for strategic crude oil storage facility.

General Description

Client Name:	Japanese National Oil Corp. (JNOC)
Contract Award:	1983
Installation Date:	1984
Application:	Crude Oil Storage

Project Specifications

Water Depth:	44m (146ft)
Tanker Size:	350,000 dwt
Dimension:	5.2mØ x 15.2m
Floating Hose System:	2 x 24-in.
Hawser System:	16-in. Dual hawser
Anchor Leg System:	6-in. Ø Chain with chain swivel
Anchor System:	48-in. Ø Piles with mooring base

Comments

The MOOS terminal is a SOFEC SALM system for crude oil import located approximately two miles offshore Mutsu in Northwest Honshu. The buoy is anchored to a pile-type mooring base with a single constantly tensioned 6-in. chain anchor leg. The chain leg assembly is isolated between universal joints at the lower end of the buoy and atop the fluid swivel. Two floating mooring hawsers are attached to quick release mooring couplers on the buoy. The SALM is equipped with a dual 24-in. hose system. Mutsu Ogawara Base was the first national petroleum stockpile base to be built as part of Japan's strategic oil storage facilities.