Certificate No: 2022-OFS-064-01-LO

Date: June 28th , 2022



CERTIFICATE OF ACCOMPLISHMENT

This is to certify that

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ID NUMBER: OFS-064-01

has completed

OFFSHORE STRUCTURE DESIGN LOAD OUT ANALYSIS

Held by **PETROS Oil Gas Training** – Jakarta, June 28th, 2022, covering the subjects as listed on the back page





OFFSHORE STRUCTURE DESIGN - LOADOUT ANALYSIS

BASIC THEORY

METHOD OF ANALYSIS

A normal set of conditions:

- All support active.
- A vertical displacement of ± 30 mm is imposed on each of the 4 supports alternatively.

An extreme set of conditions:

- Each support is successively released:
- A maximum vertical displacement of ± 60 mm is imposed on each of support alternatively

STRUCTURAL ANALYSIS

Basic Load Case

- Elementary Load Cases
- Gravity Load
- Variation Of CoG Location
- Displacement Of Support
- Wind Load
- Friction Load

Load Combination

- Full skidway support + Shifting + Wind
- Loss support + Shifting
- Each Support preset 30 mm upward + Shifting+Wind
- Each Support preset 30 mm downward + Shifting + Wind
- Each Support preset 60 mm upward + Shifting+Wind
- Each Support preset 60 mm downward + Shifting + Wind

LOADOUT ANALYSIS COMPUTER MODELING

- Model and Input Data
- Create Loadout Input File
- Running The Analysis

ANALYSIS OF RESULTS

- Total Deck Weight, Centre Of Gravity, Support Reactions, Deflection
- API/AISC Member Stress Ratios
- API/AISC Joint Punching Shear Stress Ratios
- API/AISC Joint Minimum Required Strength Ratios

REPORT PREPARATION

FINAL PROJECT: LOADOUT ANALYSIS OF 103 TONS DIESEL STORAGE PLATFORM