

ELR Employment Projects - Confidential

Date:

2002

Org:

Amec

Sector:

Offshore

Project:

Topsides

Detail:

Temporary Works & Installation Design

Activity:

Supervisory & Design Analysis

Role:

Structural Engineer

Resources:

Staad & hand calculations

Description:

Conoco Britsats process integration. Overseeing & approving lifting arrangements for installation while working offshore

Conoco Britsats bridge landing platform. Overseeing & approving lifting arrangements for installation while working offshore

Conoco Britsats process skids - design analysis

Sakhalin Island deck structures. design under operating, blast, seismic, wave impact and transport loading conditions



ELR Employment Projects - Confidential

Date:

2002

Org:

American Bureau of
Shipping

Sector:

Offshore

Project:

Drilling Equipment

Detail:

Structural & Mechanical Aspects

Activity:

Design Analysis

Role:

Mechanical Engineer

Resources:

Hand calculations

Description:

Design verification to ABS Rules. checking submitted calculations and writing additional hand calculations as necessary.

250t BOP Crane

400t BOP Elevator

Articulated Roughneck

Calm Buoy

Column Stabilised Unit modifications

Skid Baseframes

Mudbucket

Piperacker

ELR Employment Projects - Confidential

Date:

2002
2005

Org:

Amec
Babcock International

Sector:

Marine & Offshore

Project:

FPSO Bonga

Detail:

Temporary Works & Installation Design

Activity:

Design Analysis

Role:

structural engineer

Resources:

Mathcad, long-hand calculations and in-house programs

Description:

Mooring arrangement at equipment installation yard

Topside supports for construction: weighing

Loadout of process modules and piperacks

Method statements for lift procedures

Construction procedures

Stores crane: dropped object study for operations by stores crane - design analysis & code checking to lr & dnv rules and reporting



ELR Employment Projects - Confidential

Date:

2011
2012

Org:

OGN
Archer

Sector:

Offshore

Project:

Topsides, Jacket & Drilling Rig

Detail:

6000t Jacket

Activity:

Design Analysis, Temporary Works,
Supervisory

Role:

Structural Engineer

Resources:

Staad & AISC Code checking by spreadsheets & hand calculations

Description:

Forties Alpha satellite platform. 6000t jacket loadout analysis & report. Analytic work included the use of Staad models. Two models were composed of beam elements and represented the grillages. A third model was composed of four node quadrilateral plate elements and was used to investigate the buckling response & stress concentrations of a critical detail of the plated structure. Hydraulic linking between the suspension units & between transporters was simulated.

Maui-A Emerald. offshore drilling rig installation. EC3 Code checking. Structural engineering support assignment undertaken in New Zealand for drilling unit installation. Liaising with sub-contract fabricators and representing the company at client facing meetings.



ELR Employment Projects - Confidential

Date:

2012

Org:

Fabricom Offshore
Services

Sector:

Offshore

Project:

Talisman Claymore Platform

Detail:

Laydown Area

Activity:

Design Analysis, Temporary Works

Role:

structural engineer

Resources:

Staad & long-hand calculations

Description:

Design of deck laydown area for 20t valve

Lifting design for replacement of a 20t valve located remotely from the deck laydown area

Design of air skating for replacement of a 20t valve located remotely from the deck laydown

