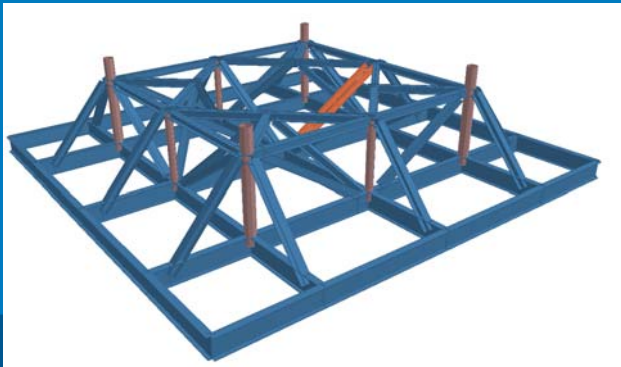


**PROJECT:**

# East Spar Decommissioning— GBS Analysis

**under-promise  
over-deliver**



**CLIENT:**  
Apache Energy Ltd  
**LOCATION:**  
East Spar Field, WA  
**DATE:**  
2014 - 2015



The East Spar Decommissioning Project consisted in the removal of the Navigation Communication Control (NCC) Buoy and associated facilities from the East Spar Field, located 40 km West of Barrow Island, Western Australia, in 100 m of water.

Linch-pin developed the decommissioning concept for the removal of the facilities. The NCC Buoy removal concept was based on the use of Linch-pin's proprietary subsea chain puller for controlled release of the buoy to the surface, prior to tow back to shore. The existing Gravity Base Structure (GBS) was used to restrain the buoy during the removal operation.

As part of this project, the GBS was remodeled, analysed and structurally checked in its in-place condition for the forces anticipated during the NCC Buoy removal. The structural work involved review of the original design reports, fabrication drawings and code checks of primary members and connections for adequacy under the decommissioning design conditions. The structural adequacy of the GBS was confirmed for a net buoyancy of 400 t exerted by the buoy.

