Poseidon
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Project Type(s):

VESSEL COMPONENT DESIGN

Vessel:

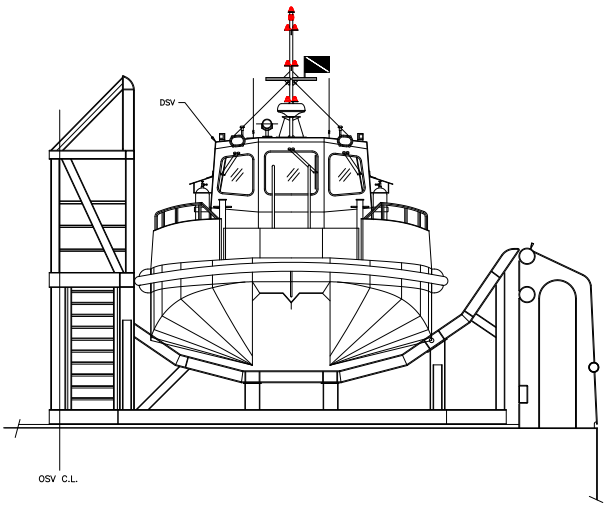
Pro-Dive Attender / Atlantic Hawk

Client:

Pro Dive Marine Services
Mount Pearl, NL

Profile:

- In conjunction with the preliminary design of the *Pro-Dive Attender*, **Poseidon Marine Consultants Ltd.** designed and supervised the fabrication of a steel support cradle on which the aluminum vessel would be stowed and serviced during transit offshore.
- The configuration of the launch platform was based on several requirements, including alignment with primary deck structure and newly-installed crane on the *Atlantic Hawk*, ease of retrieval of both the *Pro Dive Attender* from the cradle and the cradle from the deck of the *Atlantic* Hawk, and providing safe access to vessel equipment, systems and securing points.
- The structure of the launch platform was based on a number of loading conditions. Four operational load cases were analyzed, with static wind loading and inertial forces (from *Atlantic Hawk* motions) acting in various directions. Two accidental load cases involving side and vertical impact loading were analyzed, as well as the lifting of the launch platform. Design calculations referenced several codes and standards, such as DNV Certification Notes 2.7-1, Canadian Institute of Steel Construction, and CSA standards S16 / S471 / S473.



Project Summary:

- Detailed design of launch platform and all fittings, including securing points, access walkways and seafastening to deck of *Atlantic Hawk*.
- Assisted in tendering process for platform fabrication.
- Performed FEA analysis of Launch Platform in all modes of anticipated loading.
- Participated in PHA (Process Hazard Assessment) related to vessel launch, recover and other planned operations.
- Representation during fabrication on behalf of Owner.