



# Energy & Transportation Design Appraisal Document

Lloyd's Register EMEA  
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Date  
**29 July 2007**

Quote this reference on all future communications  
**ESD/0790464/MST/ O-12582**

CLIENT: HYDRAMEC OFFSHORE HYDRAULICS SYSTEMS LTD  
SUBJECT: 30 TM CRANE FRAME – HH37

1. The plans, as listed below, have been examined where appropriate for compliance with:
- LR's Code for Lifting Appliances in a Marine Environment, Chapter 3 Section 3
  - BS EN 12079 Offshore Containers – Design, Construction, Testing and Marking for testing requirements only

and are approved as submitted or noted for information, subject to the following comments:

Drawing No.	Rev.	Title	Stat.
HH37-001	1	ROV LAUNCH SYSTEM G.A.	RI
HH37-002	2	MAIN BASE – 30T/M	RI
HH37-003	1	DECK FASTENINGS AND WINCH BEARERS	AC
HH37-004	0	DECK FASTENINGS	AC
HH37-005	1	CRANE BASE DETAILS	AC
HH37-006	0	BONFIGHOW CRANE MOUNTING BASE 30 T/M	AC
HH37-008	1	PAD EYE DET 9½ SHACKLE	AC
HH37-009	1	LIFT FRAME END ELEV	AC
HH37-010	1	LIFTING FRAME – SIDE & PLAN	AC
HH37-011	1	CORNER POST	RI
HH37-012	0	LIFTING FRAME TO BASE JOINT	AC

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2. Condition of Acceptance

2.1 Design Criteria

The crane support frame structure has been examined for unmanned launch/recovery operations in open sea conditions up to and including sea state 7, for the following design criteria:

SWL ..... : 3800 kg  
Outreach from base ..... : 4.75 m  
Fd ..... : 1.2  
Fh ..... : 2.73

- 2.2 The approval is based on a 30 tonne/metre crane fitted to the skid
- 2.3 The approval is based on the skid being welded to the deck.
- 2.4 The attachment to and the adequacy of the supporting structure in way of the skid is to be to the Surveyor's satisfaction.
- 2.5 The installation is to be tested in accordance with Chapter 9 of the Lloyd's Register Code for Lifting Appliances in a Marine Environment to the surveyor's satisfaction.

In preparing this report, the undersigned surveyor is acting as an independent person in accordance with the applicable policy on conflict of interest.



**MARK TAYLOR**  
Senior Specialist  
Lifting Appliances  
Compliance & Engineering Services Department

Appraisal Status Key

AC            Approved with conditions  
RI            Retained as supporting documentation for information only