



# Design Appraisal Document

Lloyd's Register North America, Inc.  
Americas Technical Support Office  
1330 Enclave Parkway  
Suite 200  
Houston, TX 77077  
United States

Date  
**13 December 2019**

Please quote the document number on all future communications  
**PRJ11100240098**

## **RAM XVII LIFTBOAT, (IMO 8769951)** **HULL STRUCTURE MODIFICATION**

1. The Document(s) listed in paragraph 1 of the appendix have been examined with respect to structural aspects only, for compliance with LR Rules and Regulations for the Classification of Offshore Units (ROU), July 2019 and assigned the status indicated.

2. Point for information

2.1. Appraisal has been carried out only for the hull structures, based on the below stated rated capacity and loading location as indicated on the plan.

Ramset

- Weight: 2000 lb
- Maximum Load: 60000 lb (vertical direction)

Operation limit:

- Wave Height: 7 ft (crest to trough)
- Wind speed: 40 Kn

2.2. Scope of this review is limited to hull modification and local hull strength in way of ramset equipment foundation. The floating stability, overturning stability in elevated condition, global strength, the equipment foundation and its securing arrangement to the hull, moonpool manhole cover etc are excluded from the scope of this review.

2.3. Operator has to make sure that manhole cover with thickness same as attaching deck plate or higher is used for moonpool opening. The moonpool manhole cover test should be carried out according to LR ROU Rule Part 4 Chapter 7 and to the satisfaction of the attending LR Surveyor. **AQS**

2.4. All new material, welding, welding procedures and tests shall be in compliance with LR Rules for the Manufacture, Testing and Certification of Materials, July 2019 and to the satisfaction of the attending LR Surveyor. **AQS**

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

Lloyd's Register North America, Inc.  
Is a member of Lloyd's Register group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Lloyd's Register North America, Inc.  
Americas Technical Support Office  
1330 Enclave Parkway  
Suite 200  
Houston, TX 77077  
United States

Date  
**13 December 2019**

Please quote the document number on all future communications

2.5. Amendments are to be provided as per indicated in the document.



**Efren Ayala Uraga**  
Offshore Structures Specialist  
Lloyd's Register North America, Inc  
Americas Technical Support Office

**Riyas Kuruniyan**  
Senior Naval Architect  
Lloyd's Register EMEA  
UK&I - Technical Support Office

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

Lloyd's Register North America, Inc.  
Is a member of Lloyd's Register group

Lloyd's Register North America, Inc.  
Americas Technical Support Office  
1330 Enclave Parkway  
Suite 200  
Houston, TX 77077  
United States

Date  
**13 December 2019**

Please quote the document number on all future communications

## Appendix

1. The documents listed below have been examined

Document No.	Rev.	Title	Status	Date
<b>RAMXV MOONPOOL DETAILS</b>	<b>3</b>	<b>RAMXV (AND RAMXVII) MOONPOOL, SHT 1 &amp;2</b>	<b>AM</b>	<b>12 Dec 2019</b>
<b>---</b>	<b>--</b>	<b>MOONPOOL ANALYSIS REPORT</b>	<b>SI</b>	<b>13 Dec 2019</b>

2. The documents listed below have been considered together with the submitted documents in the appraisal

Document No.	Rev.	Title
<b>SS-02</b>	<b>2</b>	<b>Main Deck Structural Arrangement</b>
<b>SS-03</b>	<b>2</b>	<b>Long'l BHDS and Trusses Sht</b>
<b>SS-04</b>	<b>2</b>	<b>Transv BHDS and Frames</b>

### Appraisal Status Key

AM	Approved as amended - provided the arrangements are to the surveyor's satisfaction
AQS	Details to be submitted by the client to the local surveyor's Office responsible for surveying the building and the arrangements verified in accordance with the Rule/Regulations requirements by the surveyor.
SI	Retained as supporting documentation for information only

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

Lloyd's Register North America, Inc.  
Is a member of Lloyd's Register group