DET NORSKE VERITAS

STATEMENT OF CONFORMITY

DOCUMENT NUMBER: HOU-01-SC-42039783

DNV HOUSTON PROJECT NUMBER: 42039783

THIS STATEMENT IS TO CERTIFY THAT TESTING FOR THE FOLLOWING:

EQUIPMENT: 20 Inch Pipeline and Riser Connector
GMC/ SBM Drawing Number (Pin) MCN-TA01-20-PIN-01
GMC/ SBM Drawing Number (Box) MCN-TA01-20-BOX-01

MANUFACTURER: General Marine Contractors and SBM Atlantia
1160 Dairy Ashford, Suite 260 1255 Enclave Parkway
Houston, Texas 77079 Houston, Texas 77077

HAS BEEN REVIEWED AND WITNESSED AND FOUND TO COMPLY WITH:


TESTING DOCUMENTS:

- GMC/ SBM Document ES0081 Rev 3 “Test Plan for Pipeline Connector Qualification”
- Holloway Houston, Inc. Document “Bending Test of Test Article 04, Date: 8-24-09”

CONNECTOR TESTING PARAMETERS:

Connector Material: ASTM 4130, 90 ksi (620 MPa) yield strength
Pipe Segment Material: API 5L X65, 20” OD, 18” ID
Design Pressure: 2,250 psi (155 bar)
Maximum / Minimum Test Temperature: 120° F (49° C) / 39° F (4° C)

A complete list of test parameters is found in GMC/ SBM Doc. ES0081 Rev 3 Section 4.1
APPLICATION LEVEL:

Test loads were reviewed and calculated according to Application Level 4, as described in Section 5.3 and Table 1 of ISO 21329 (2004).

CONFIDENCE LEVEL:

Confidence levels were based on the requirements given in Section 5.4 and Table 2 of ISO 21329 (2004). The tests below were carried out to the indicated confidence level:

<table>
<thead>
<tr>
<th>Test</th>
<th>Confidence Level Witnessed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make Up and Break Out</td>
<td>High</td>
</tr>
<tr>
<td>Torque Test</td>
<td>High</td>
</tr>
<tr>
<td>Installation Tests</td>
<td>Normal</td>
</tr>
<tr>
<td>Hydrostatic Pressure Tests</td>
<td>High</td>
</tr>
<tr>
<td>Operational Unrestrained Tests</td>
<td>Normal</td>
</tr>
<tr>
<td>Operational Restrained Tests</td>
<td>Normal</td>
</tr>
<tr>
<td>Pressure to Failure Test</td>
<td>High</td>
</tr>
<tr>
<td>Compression to Failure Test</td>
<td>N/A</td>
</tr>
<tr>
<td>Bending to Failure Test</td>
<td>High</td>
</tr>
<tr>
<td>Tension to Failure Test</td>
<td>High</td>
</tr>
<tr>
<td>Fatigue Tests</td>
<td>Normal</td>
</tr>
</tbody>
</table>

Exceptions:

1. Section 7.5.1 of the ISO 21329 standard describes the requirements for testing the “worst case” connectors based on their respective manufacturing tolerances. Due to the design of these axially made-up connectors with their rows of concentric grooves in addition to the two sealing surfaces, it is not possible to specify the exact pin and box that would make the “worst case” connection for each test. Therefore, “worst case” tolerances as per Section 7.5.1 of ISO 21329 should be based on FEA analysis.

2. For the make up and break out tests, Section 10.1.1 indicates that samples should be made up in accordance with the field make-up procedure. As this is a new product without an established make-up procedure, it is assumed that the field make-up procedure will reflect the procedure and methodology used in the make-up procedure for the tests.

Houston, Texas, January 13, 2010

For Det Norske Veritas (U.S.A.), Inc.

Travis Wallace
Engineer
Qualification and Verification

Lars Buus
Principal Engineer
Director, Qualification and Verification

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