

Introduction

The purpose of this test is to re-test the AMF card with the standard SEM test

Project Data

Project: Deepwater Nautilus SEM

Location: WEST DEC

Date: November 3, 2010

Test No: 4

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Test Equipment

Deepwater Nautilus SEM

DWN AMF on PLC B

DWN AMF on PLC B

Wiring Check (Pre- Conditions)

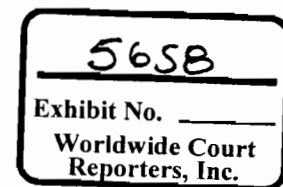
Check the following against the DWN schematics.

Item	PLC A	PLC B
PLC connect to 27V battery	X	X
PLC connected to 9V battery	X	X
AMF wiring	X	X
AMF wiring to 27V battery	X	X
AMF wiring to 9V battery	X	X

SEM Power Check (Pre- Conditions)

SEM Testing

1. Set 27V battery at 3Amps
2. Set PLC A battery to 9V at 7Amps
3. Set PLC B battery to 9V at 7Amps
4. Power Batteries
5. Turn on PETU
6. Attempt to disarm ARM AMF A
 - a. Unsuccessful
 - b. 27V pulling current at .79-1.2Amps
 - c. AMF A disarms .017Amps pulling on the 27V battery
7. Turn off PETU]Disarm AMF A
8. Turn off battery power
9. Wait 3 minutes
10. Turn on batteries
11. Turn on PETU



12. AMF A is disarmed per software
13. Disarm AMF A
14. Arm AMF A
 - a. No change in the power supplies
15. Disarm AMF A
16. Energize Stack Stinger Extend per software
 - a. Solenoid fires
17. Energize Stack Stinger Seals per software
 - a. Solenoid fires
18. Energize LMRP Stinger Extend per software
 - a. Solenoid fires
19. De-energize LMRP stack stinger seal
 - a. Solenoid fires
20. Energize High Pressure Shear
 - a. Solenoid fires
21. De-energize High Pressure Shear

Variances

None

Summary of Results

When the SEM has operational 9V and 27V batteries the AMF card went through the sequence and disarmed.