**ACCIDENT INVESTIGATION REPORT**

1. **OCCURRED**
   - DATE: 10-APR-2011
   - TIME: 0836 HOURS

2. **OPERATOR:** W & T Offshore, Inc.
   - REPRESENTATIVE: Salter, Jeff
   - TELEPHONE: (504) 210-8167

3. **OPERATOR/CONTRACTOR REPRESENTATIVE/SUPERVISOR**
   - ON SITE AT TIME OF INCIDENT:

4. **LEASE:** G02759
   - AREA: HI
   - BLOCK: A 389
   - LATITUDE: [ ]
   - LONGITUDE: [ ]

5. **PLATFORM:** A
   - RIG NAME: [ ]

6. **ACTIVITY:**
   - DESTRUCTION
   - DESTRUCTION/PRODUCTION

7. **TYPE:**
   - [ ] HISTORIC INJURY
     - REQUIRED EVACUATION
     - LTA (1-3 days)
     - LTA (>3 days)
     - RW/JT (1-3 days)
     - RW/JT (>3 days)
     - Other Injury
   - [ ] PATALITY
   - POLLUTION
   - FIRE
   - EXPLOSION

8. **CAUSE:**
   - [ ] EQUIPMENT FAILURE
   - [ ] HUMAN ERROR
   - [ ] EXTERNAL DAMAGE
   - [ ] SLIP/TRIP/FALL
   - [ ] WEATHER RELATED
   - [ ] LEAK
   - [ ] UPSET H2O TREATING
   - [ ] OVERBOARD DRILLING FLUID
   - [ ] OTHER

9. **WATER DEPTH:** 410 FT.

10. **DISTANCE FROM SHORE:** 110 MI.

11. **WIND DIRECTION:**
    - SPEED: M.P.H.

12. **CURRENT DIRECTION:**
    - SPEED: M.P.H.

13. **SEA STATE:** [ FT.]

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**UNITED STATES DEPARTMENT OF THE INTERIOR**
**BUREAU OF OCEAN ENERGY MANAGEMENT, REGULATION AND ENFORCEMENT**
**GULF OF MEXICO REGION**

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**EV2010R**
**09-JUN-2011**
From approximately 0800 to 0835 hours, Operator A and Mechanic B performed preventative maintenance on the #2 engine portion of the #2 generator. At approximately 0836 hours, both men attempted to activate the generator from the switch gear/control panel in the Master Control Center (MCC) immediately adjacent to the generator room. Once the engine came up to speed (20-30 sec), a loud electrical pop was heard coming from the generator room. Mechanic B opened the door, saw smoke and fire coming from within the #2 generator's dust cover/end guard and announced "fire, fire". Both men exited the MCC on the south door going outside and activated the Emergency Shut Down (ESD) #9. Operator A then picked up the 30# purple K Amorex fire extinguisher from the west handrail, immediately west of the generator room, entered the west entrance and extinguished the fire through the end cover's bottom grating. At approximately 1000 hours, following a review of the incident, the #1 generator was placed on line and normal platform operations resumed.

18. LIST THE PROBABLE CAUSE(S) OF ACCIDENT:

An electrical arc (pop) in the electrical wiring caused a short between the generator windings which lasted long enough to catch the insulation sleeve to the heater wire on fire.

19. LIST THE CONTRIBUTING CAUSE(S) OF ACCIDENT:

The worn insulation between the winding wires was in the proximity of insulation sleeve, allowing the short to catch fire.

20. LIST THE ADDITIONAL INFORMATION:

As compared to the repair cost, the estimated generator replacement cost was $151,000 with an estimated delivery date of 18-20 weeks. BOEMRE will request that the operator consider including a visual inspection of the winding wire insulation during their preventative maintenance to determine if foreign items or loose generator components create unnecessary wear on the insulation.

21. PROPERTY DAMAGED: #2 generator

NATURE OF DAMAGE: Electrical short within windings

ESTIMATED AMOUNT (TOTAL): $39,192

22. RECOMMENDATIONS TO PREVENT RECURRANCE NARRATIVE:

The Lake Jackson District has no recommendations for the Agency.

23. POSSIBLE OCS VIOLATIONS RELATED TO ACCIDENT: NO

24. SPECIFY VIOLATIONS DIRECTLY OR INDIRECTLY CONTRIBUTING. NARRATIVE:
None

25. DATE OF ONSITE INVESTIGATION:

   11-APR-2011

26. ONSITE TEAM MEMBERS:
   Aaron Campbell /

29. ACCIDENT INVESTIGATION
    PANEL FORMED: NO

30. DISTRICT SUPERVISOR:
    John McCarroll

APPROVED
DATE: 08-JUN-2011
1. SOURCE OF IGNITION:  *Short in generator windings*

2. TYPE OF FUEL:  

   - [ ] GAS
   - [ ] OIL
   - [ ] DIESEL
   - [ ] CONDENSATE
   - [ ] HYDRAULIC
   - [X] OTHER  *wire insulation*

3. FUEL SOURCE: N/A

4. WERE PRECAUTIONS OR ACTIONS TAKEN TO ISOLATE KNOWN SOURCES OF IGNITION PRIOR TO THE ACCIDENT?  *NO*

5. TYPE OF FIREFIGHTING EQUIPMENT UTILIZED:  

   - [X] HANDHELD
   - [ ] WHEELED UNIT
   - [ ] FIXED CHEMICAL
   - [ ] FIXED WATER
   - [ ] NONE
   - [X] OTHER  *30# purple K Amorex, bottle was not completely discharged*
Operator A

Operator B

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