

# ACCIDENT INVESTIGATION REPORT

1. OCCURRED  
DATE: **03-OCT-2024** TIME: **0900** HOURS

2. OPERATOR: **Shell Offshore Inc.**  
REPRESENTATIVE:  
TELEPHONE:  
CONTRACTOR: **Helmerich & Payne**  
REPRESENTATIVE:  
TELEPHONE:

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

4. LEASE: **G17565**  
AREA: **AC** LATITUDE:  
BLOCK: **857** LONGITUDE:

5. PLATFORM: **A (Perdido)**  
RIG NAME: **H&P 205**

6. ACTIVITY:  EXPLORATION(POE)  
 DEVELOPMENT/PRODUCTION (DOCD/POD)  
 DECOMMISSIONING

7. TYPE:  
INJURIES:  
 HISTORIC INJURY  
 REQUIRED EVACUATION  
 LTA (1-3 days)  
 LTA (>3 days)  
 RW/JT (1-3 days)  
 RW/JT (>3 days)  
 FATALITY  
 Other Injury

OPERATOR CONTRACTOR

POLLUTION  
 FIRE  
 EXPLOSION

LWC  HISTORIC BLOWOUT  
 UNDERGROUND  
 SURFACE  
 DEVERTER  
 SURFACE EQUIPMENT FAILURE OR PROCEDURES

COLLISION  HISTORIC  >\$25K  <=\$25K

8. OPERATION:  
 PRODUCTION  
 DRILLING  
 WORKOVER  
 COMPLETION  
 HELICOPTER  
 MOTOR VESSEL  
 PIPELINE SEGMENT NO.  
 OTHER **Well Intervention**

TEMP ABAND  
 PERM ABAND  
 DECOM PIPELINE  
 DECOM FACILITY  
 SITE CLEARANCE

9. CAUSE:  
 EQUIPMENT FAILURE  
 HUMAN ERROR  
 EXTERNAL DAMAGE  
 SLIP/TRIP/FALL  
 WEATHER RELATED  
 LEAK  
 UPSET H2O TREATING  
 OVERBOARD DRILLING FLUID  
 OTHER \_\_\_\_\_

10. WATER DEPTH: **7835** FT.  
11. DISTANCE FROM SHORE: **140** MI.  
12. WIND DIRECTION:  
SPEED: M.P.H.  
13. CURRENT DIRECTION:  
SPEED: M.P.H.  
14. SEA STATE: FT.  
15. PICTURES TAKEN:  
16. STATEMENT TAKEN:

On October 3, 2024, at approximately 9:00 am, an arc flash fire occurred on Lease G17565, Alaminos Canyon Block 857, on Shell's Perdido SPAR when a Silicon Controlled Rectifier (SCR) failed in the SCR house.

While conducting wireline logging operations, the H&P Drill Crew was using the cement pump to pump base oil into the GA017 well for hydrate mitigation. During the pumping operation the cement unit's electronic panel lost power. The Halliburton Cementer immediately notified the H&P 205's Rig Manager and Tool Pusher of the situation. The H&P Tool Pusher and Rig Electrician was dispatched to the SCR room to investigate. When the Tool Pusher and Rig Electrician entered the East side entrance to the SCR room, they heard a loud popping sound and observed smoke coming from the West side of the SCR room. The H&P Drill Crew was advised by the H&P Tool Pusher to secure the well and all rig power was shut down. The well was secured in four minutes and well operations were suspended to allow investigation into the power failure and the observed smoke in the SCR room. The fire crew was assembled and put on standby outside the SCR house for 30 minutes. The rig fire and gas alarm system did not indicate a fire had occurred in the SCR house. The fire was only identified when personnel entered the SCR house. The Rig Electrician began troubleshooting the power failure and identified evidence of arcing between the DC buss bars, arcing on the circuit breaker heat sinks, and a failed buss insulator in SCR cabinet #1. The electrician did not find evidence of any loose, unsecured connections or foreign objects which would have caused excessive heat. SCR cabinet #1 was isolated from the system for repair and the rest of the SCR system was returned to normal operating condition.

BSEE Investigators conducted an onsite inspection on October 7, 2024, and reviewed the alarm log, electrical schematics, monthly and semiannual SCR maintenance schedules, maintenance history, and thermal imaging scans of components. SCR system was installed in 2002. All inspections and maintenance were completed and up to date according to the maintenance records. The thermal imaging scans did not include a scan of the SCR cabinet's internals under load due to safety concerns of a high voltage circuit. A thermal imaging scan of the closed SCR cabinet from the outside could not have identified internal component failure because the cabinet is designed to dissipate any heat generated on the inside. The thermal image would only reflect the external cabinet temperature.

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

Internal component failure. Buss Insulator.

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

Age of equipment

20. LIST THE ADDITIONAL INFORMATION:

None

21. PROPERTY DAMAGED:

NATURE OF DAMAGE:

SCR cabinet #1

Fire

ESTIMATED AMOUNT (TOTAL): \$25,000

22. RECOMMENDATIONS TO PREVENT RECCURRANCE NARRATIVE:

None

23. POSSIBLE OCS VIOLATIONS RELATED TO ACCIDENT: NO

24. SPECIFY VIOLATIONS DIRECTLY OR INDIRECTLY CONTRIBUTING. NARRATIVE:

None

**For Public Release**

25. DATE OF ONSITE INVESTIGATION:

**07-OCT-2024**

28. ACCIDENT CLASSIFICATION:

26. Investigation Team Members/Panel Members:

**Dylan Mire / David Kearns /**

29. ACCIDENT INVESTIGATION PANEL FORMED:

**NO**

27. OPERATOR REPORT ON FILE:

OCS REPORT:

30. DISTRICT SUPERVISOR:

**Stephen Martinez**

APPROVED

DATE:

**27-DEC-2024**