

Insurance Audit: PetroSA

24 – 27 July 2023

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PSM Manager

(included slide 6 detail on occupational safety – I Loff)

Purpose of the Visit

- To gain an understanding of the risk reduction and mitigation measures
- To understand significant changes from the last site survey in August 2022
- To gain an understanding of major projects aligned to plant re-start
- To review the status of risk improvement recommendations
- To improve everyone's understanding of the risks

Positive Observations

- Dedicated management & workforce at site despite refinery future uncertainty
- Progress on firewater ring main leak repairs
- Good progress on PM13 work order (for Preservation) entry in SAP
- Progress on firewater ring main leak repairs
- Two firewater pump diesel engines replaced in Nov-2022
- MBO system for Critical Task Observation digitization program to increase efficiency and records management
- MOC audits by PSM group
- Great progress on updating operating procedures (only 2 remain overdue)
- PSM group have shown much growth and progression by the underwriter compared to previous survey

Concerns

- Resource constraints at site (cash and manpower) are hindering the preservation activities and the inspection / maintenance of the kit. The longer you wait, the more the plant condition will deteriorate so the larger the discovery scope will be when you *do* start. This means that capex and schedule to remediate will increase every day you wait.
- PSSR not done for MOCs including plant additions including if they are vendor skids
- No MOC for LPG sphere (butane) routed to flare header via vent line
- Procedure for N2 addition to LNG tank is in draft (not approved) but MOC has been approved
- No live fire training since 2022 (no fire water)

Concerns

- Fire pre-plans not updated for changed hazard profile at site including lack of firewater
- Several overdue inspections due to plant in operation or unavailability of resource

Risk Improvement Recommendations

- No new RIRs were raised
- Closed out 4 of 24 RIRs since the previous survey in 2022
- 3 RIRs were put on hold until the refinery re-start
- 17 active RIRs being pursued for GTL Refinery
- **RIRs closed in Safety:**
 - Safety Observations/Near Miss reporting and tracking.
 - Audit Reporting and Tracking.
 - Quality of Incident Investigations (RCAT + TAPROOT) – Human Factors – and Tracking Actions.
 - Learning from Incidents.
 - Above closed and adjusted RIR created for Corrective Action Tracking and Resolution – i.e. 1 active.
 - Update of electronic IMS – EHS will be beneficial.



Questions