



Level 2 Exercise

11 November 2022



Exercise Executive Summary

Credible Scenario - Spill Fire

Ballast Area

Plant: 25-G6-XX

Date: 11 November 2022

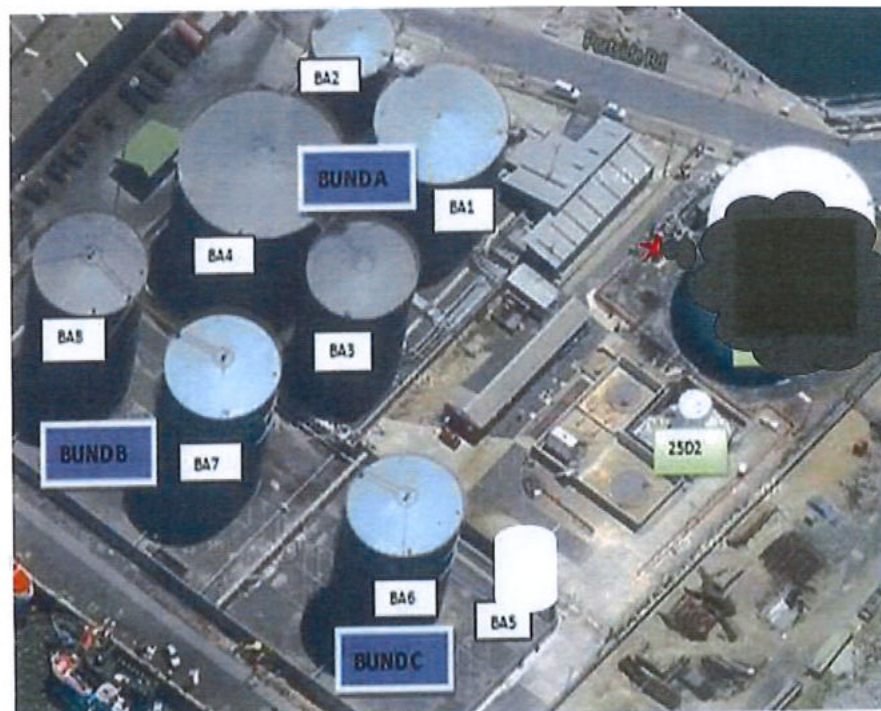
Exercise Scenario short description:

On the 11th November 2022 at about 09h30 am, Maintenance team were busy with Hot work (grinding and welding) at Ballast Area on the new VLSFO (Very Low Sulphur Fuel Oil) line to JBS.

During these activities Ballast Area was busy pumping Slop using pump no (25-G6-XX) to the Refinery via the 10' Slop Line.

A Flange failed leaking and spilling slop on the Bund. Sparks from the Welding and Cutting ignited the flammable vapours released from the leaking Flange causing a pool fire.

No.	Objectives	Yes	No
1.	Evaluate the effectiveness of Ballast area emergency procedure.	✓	
2.	Evaluate how information of the incident will be relayed to internal resources (TNPA).	✓	
3.	Evaluate how will Ballast deal with this incident (Operational response pre-plan and can the entire team operate interim mitigations).	✓	
4.	Evaluate how Astron Refinery (Security Command Centre) is notified of the emergency.	✓	





Objective's overview

Highlights/positives

Successful execution of the scheduled exercise:

- Approved and supported by AEFD, B&S, Marine Advisor, JBS, Ballast area and TNPA Fire Dept.
- All objectives were met.
- All relevant stakeholders were notified as per Ballast Emergency Response Procedure.
- Supervisor knew how to use mitigation in place.
- Astron Security Command Centre:
 - Send Word Now notification of the incident to IMT was successfully done.
 - Send Word Now notification of the completion of the exercise was also successfully done.
- External Emergency response service provider was involved and showcased their response capability for Astron Energy.
- No injuries occurred during the exercise.

Lessons learned were identified and discussed.

Lowlights/negatives

- Not everyone heard the horn, Supervisor had to physically go and tell the people of the incident.
- Ballast area has only one emergency assembly point.
- Adjacent business units (JBS), did not respond or react to the emergency alarm and JBS was not notified about an emergency exercise at Ballast.

Action items to be addressed

- Ballast and JBS personnel to engage and align on updated ERP's.
- Additional emergency assembly point must be identified and installed.
- B&S and JBS leadership to investigate possibility of installing audible alarm system.



Thank you.

