

Bitumen tank fire

WHAT HAPPENED

- A tanker driver spotted product on the floor
- He advised site team who investigated and found no issues.
- Removed cladding at ground level to check source of leak
- Product identified in cladding and around inlet pipe – no tank fracture and inlet pipe not for that tank Ignition occurred following morning as a result of heat from the tank allowing lighter oils released from pipework volatilize effect ?? pipe fracture identified - aged insulation (>20years) disintegrated acting as a wick.
- By removing the cladding to check issue effectively open to air oxygen introduced and over 8hours unseen smouldering occurred to enable ignition after glowing effect
- Local site measures put out the fire and brigade called. Attended site, removed cladding using non sparking - fire safe equipment to reveal and remove further hazards
- Fire watch teams put in place until all risk removed over a 3 day 24/7 period

LEARNING POINTS / ACTIONS TAKEN

Safety procedures

- Correct, relevant and followed
- Fire brigade provided information appropriate to the event and safety considerations
- Site controls – interactions and pressures managed
- Early assessment of possible causes and interaction with SHEQ team, Fire service and manufacturers
- Fracture as a result of welding to the tank and pipe and no allowance for the movement, d clamp type bolts not used.
- As pipes inside insulation and cladding no ability to inspect without removing, unusual arrangement
- Design of intake system unusual for current times but could exist elsewhere so immediate calls to all units and assessments carried out within 12hours
- Inspections of equipment and shared learnings with ourselves and others via industry working groups and own networks
- Alert to be shared with MPA working group and associated organisations

SEE ATTACHED PDF FOR IMAGES AND MORE DETAILS

LOCATION: ASPHALT/COATING PLANT
ACTIVITY: MAINTENANCE & HOUSEKEEPING
SUB ACTIVITY: N/A

ALERT STATUS: Normal
DATE ISSUED: 22/02/2022 11:42:22
INCIDENT No: 03606