

PS25834 Uncontrolled lowering of load Dangerous Occurrence

Incident description

- During cargo offload Framo hydraulic oil system tripped causing the crane to stop. The load remained suspended by the crane brakes.
- On restart of Framo system the load (7te container) was allowed to lower in an uncontrolled manner, coming to rest on the cargo offload hose and guardrail.
- Once Framo system had been fully restored the crane was function tested and the load returned to the supply vessel.



Potential		✓
Major	Red	
Significant	Red	
Serious	Yellow	✓
Minor	Yellow	
Event	Green	

Findings

- Crane being used in Lift From Supply Vessel (LFSV) mode.
- Crane hydraulic pressure system decayed to zero when Framo tripped.
- Framo system restored whilst in LFSV mode – brake released by design in this mode.
- Combination of position of ELLS (Emergency load lowering system) flow control valve & inherent oil leakage within motor allowed winch motor to descend faster than expected.

Observations

- Inadequate training in the correct use of LFSV function including inadequate identification of crane differences.
- No emergency operating procedures for the safe restoration of hydraulic oil pressure following Framo trip.
- FMEA considering potential failure mode of creation of HP flowpath could not be found.
- Framo system trip identified as common alarm, more specific cause of trip required.

Recommendations

1. Evaluate and revise training, add assessment module and roll out to all Crane Operators.
2. Create operating and emergency procedures. Incorporate suspended load exercises into HSSEQ plan
3. Consider LFSV mode change to automatic.
4. Hasten delivery of new crane Operating Manuals.
5. Assess the close out effectiveness of Maersk engineering change procedure
6. Carry out a reliability review of the Framo System.

WHY TREE

