

Rocketed Tank

EPSC Learning Sheet Nov 2021

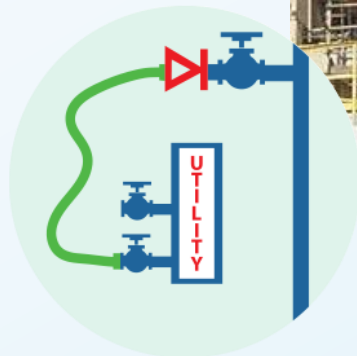


What Happened:

A new vessel was rocketed into the plant due to pressure building up in the tank through a Nitrogen utility that was connected and leaking.



Process Safety
Fundamental:
Manage Utility
Connections



Aspects:

- Connecting a utility (water, steam, nitrogen, air, etc.) to a process is a new line-up with potential new hazards
- Enforce by procedure, that all critical utilities are disconnected when vessels are prepared for inspection.
- Keep critical instrumentation, like pressure alarms, active during testing and inspections.
- Backflow from the process can contaminate utilities, Prevent backflow with at least one check valve.
- Disconnect utility hoses from the process directly after use.
- Ensure the utility pressure cannot exceed design conditions of the receiving system.

Manage utilities connected to a process