SHUTDOWN OBSERVATIONS & LEARNINGS

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Positive observations

- During emergency work was stopped and people evacuated the plant
- QA/QC completed during box-up
- CFO files before were managed very well
- Mercury management at the ammonia system was executed according to procedure
- Flare tip replacement was done as planned, high risk task
- MOCs were discuss in shutdown meetings
- Marked up MFDs were attached to blank lists
- Emergency exercises were conducted at early stages of the shutdown and deviations / gaps were addressed and rectified
- Daily assurance of the critical and battery limit blanks
- Manholes barricaded against man entry when no work in progress
- Production and electrical lock-out procedure were followed
- PTC was signed by all relevant parties before product transfer.

Areas of improvement

- Blank lists
  - Different blank list formats used
  - Incomplete blank lists attached to permit to work
  - Blank lists were not scope specific; blanks deleted
- Decommissioning checklist
  - Not all steps signed off and checklist not completed correctly
  - Unapproved checklists used
  - Checklist past the required revision date and was used
  - Steps not in chronological order on the decommissioning checklist
- Facility siting
  - Site establishment not as per approved plan
  - Not all containers have a COC

Areas of improvement

- MOCs
  - Left for last minute and is rushed off
  - List of MOCs to be implemented during the shutdown not available in the permit office.
  - Permit issuers does not put the MOC number on the permit.
  - Shutdown MOCs were not part of shutdown meeting agenda
  - Correct person not identified on MOC to complete step
- PSSR & CFO
  - Exceptional items not signed off on the PPSR/CFO file
- Box up & blanking
  - Deviate from the QCP during box-up
  - Welding defects on equipment in cycling services in future
  - Old or re-used gaskets used in interconnection blanking

Questions