NOTES

SIMPLIFIED PROCESS FLow DIAGRAM

Only relevant/major equipment shown

- MIC transfer by design (MIC Transfer Pump)
- MIC Transfer Pump online
- MIC transfer to Sevin Unit Charge Pot
- MIC Transfer Pump spillback line
- Nitrogen (red) Supply Control Valve
- MIC Tank Vent Control Valve (2 PSI max)
- MIC tank vapors (yellow) entering the PVH iron lines, protected by nitrogen flow
- MIC vapor removal (destruction) in VGS
- Clean (MIC Scrubbed) tank vapor emission
- Continuous excess gas combustion (Flare)
- Design MIC Tank Fill Mode, low pressure
- On-spec MIC with < 2 PSI MRS backpressure
- PVH/RVVH cross-section view (w/ nitrogen)
- Smooth and clean internal base-metal
- Alternative MIC transfer method (by PVH)
- MIC Transfer Pump disabled (seal leak)
- MIC Tank Vent Valve closed to isolate tank
- Nitrogen fed to raise sealed tank pressure
- MIC Tank pressure raised to 14 PSI
- MIC reverse-flowed through spillback line
- MIC to Sevin Unit Charge Pot (pump by-pass)
- Closed vent valve stopped PVH nitrogen flow
- Air (light blue) migrated into iron vent pipes
- VGS taken offline (MIC Tank isolated)
- Flare taken offline (MIC Tank isolated)
- PVH/RVVH cross-section view (no nitrogen)
- Rough and corroded internal base-metal
- Modified MIC Tank Fill Mode, no pump
- Flare put online (no MIC Tank vapor)
- Flare put online (MIC Tank unsealed)
- MIC Tank Vent Valve re-opened
- No MIC transfer possible (open vent valve)
- Trimer polymer build-up in PVH (rust + MIC)
- Auto control valve adjustment to keep 2 PSI PVH/RVVH cross-section view (choked)
- Trimer (polymer) deposit accumulation
- MIC distillation with trimer fouled PVH
- PVH vapor traffic restriction (trimer-choked)
- Maximum MIC Tank Vent Valve output
- Minimum Nitrogen Supply Valve output
- Background > 2 PSI on MRS
- Off-spec MIC, for recovery or disposal ($$$)
- Jumper PVH to RVVH to restore low pressure
- Using jumper would expose RVVH to trimer
- System shut down for mandatory cleaning
- Water injected to restore on-spec MIC
- Repeat Production-Fouling-Cleaning cycle