

SAPIA: Pre start- up safety review (PSSR) checklist

ITEM	FOCUS AREA	Incidents
1	<p>Pressure Envelope Assurance to Prevent Loss of Primary Containment.</p> <ol style="list-style-type: none"> 1. Work Packs sign off (Contractor actions + PTW + JHA) 2. Engineering Flow Diagram marked up – punch out 3. Critical Flange Checklist 4. Instruments sign off 5. Temporary Lines checklist 6. Bleeders and caps checklist 7. Suction Strainers box up 8. Engineering Flow Diagram line up 9. Min requirements for commissioning – MOC for start-up 10. Integrate modification between PSSR and MOC 	
2	<p>Protection of Pressure Vessel: Guaranteed open path to Relief System.</p> <ol style="list-style-type: none"> 1. Relief Valve & Smith & R Lock checklist (mechanical Lock) 2. Flare Header line up – sign off by Operations Manager 	
3	<p>Safeguarding and Functionality</p> <ol style="list-style-type: none"> 1. Trip testing 2. Loop Test 3. Disabled alarms / Trips bypass check 4. Pre- start instrument checklist 5. Critical Level Instrument sign off and de-blank (assumptions vs. reality) I see what I expect to see 	<p>Flange leak level instrument carry over</p>
4	<p>Procedures</p> <ol style="list-style-type: none"> 1. Start Up Unit specific Procedure 	
5	<p>Resources</p> <ol style="list-style-type: none"> 1. Organogram for Start-up (Production & Operations) 2. Organogram for Start-up (Maintenance) 	
6	<p>Spading</p> <ol style="list-style-type: none"> 1. Master Spade list. (focus on execution in the correct order) 2. Isolation list. 3. Running blinds checklist 	

	4. Orifice check	
7	<p>Reliability</p> <ol style="list-style-type: none"> 1. Control Valves stroke tested 2. Running Equipment control (Pumps & fin Fans) -challenge 3. Fuel Gas water wash & tightness 4. Remote Operated Valve checks – practical execution 5. Unit check sheet 6. List of energised equipment 7. List of motors mega tested 8. Ignitor test 9. Chemical checklist 10. Reliability of Safety critical equipment preserved for re-start up 11. Process Safety critical equipment working 	
8	<p>Emergency Response & HSE</p> <ol style="list-style-type: none"> 1. Fire & Safety checks 2. Sprinkler system tested 3. Sewer cleaning flow test 4. Oil soak lagging 5. Housekeeping 6. MOC Change in plan and credible scenarios 7. Verify critical barriers 8. Plant access e.g. scaffolding to access plant, paths for fire engine access. 9. Manage flaring, emissions and effluent quality impacts 	
9	<p>Hydrocarbon Plan</p> <p>Understanding feed and bringing product on spec:</p> <ol style="list-style-type: none"> 1. Flushing Tanks / On spec Tanks 2. Ullage / Feed tanks 3. Right line ups 4. Product transfer checklist 5. Economics and Scheduling sheet updated (cut points/ federates/etc.) 	
10	<p>Progress Tracking.</p> <ol style="list-style-type: none"> 1. Start-up sequence. 2. Progress tracking 	