

MINIMUM REQUIREMENT



WP/SEA MINIMUM REQUIREMENTS ICP Flushing



MEMORY JOGGERS

Ensure that the following conditions are met before proceeding. If not met, address on WP/SEA.

- Communicate the **“RIGHT TO STOP WORK AUTHORITY POLICY”** and is exercised by all crewmembers and other personnel that believe something or some condition has changed. The job is to be stopped and accessed before proceeding. The WP/SEA may need to be modified or a new WP/SEA maybe required before starting the work task again.
- Prepare a list of all sensitive equipment that shall be removed, blocked off or isolated during flushing operations.
- All pipe work shall be free from dirt and grease.
- Ball valves shall be flushed in fully open position.
- All piping shall be adequately supported before filling the piping systems with water.
- Piping containing check valves shall have the source of flushing on the upstream side. If this is not possible, the check valve disc shall be removed or jacked open
- All other valves in system not removed shall be flushed in the full open position.
- Turbines, pumps, compressors and vessels shall be blinded off prior to flushing operations.
- The flushing medium shall in general be fresh water. When flushing stainless steel lines, the chloride content shall be less than 2000ppm or as per customer specs.
- If required a qualified person shall install piping & tubing as required for the flushing operation.
- Verify all crewmembers involved with ICP flushing have on appropriate PPE within flushing limits.
- Gas testing is to be carried out in all hazardous areas immediately before starting work task. Gas Detector monitoring shall be conducted continuously at the worksite at all times.
- Verify good communications is established and maintained between the platform operators and the ICP flushing crew.
- Verify access and escape routes are clear at all times or alternative routes marked and the work force informed.
- Verify all QC requirements have been met and have been released for installation.
- Check pins and whip checks must be fitted across all crows’ foot connectors before starting.
- Check above and below worksite to minimize chance of items falling onto workers.

MINIMUM REQUIREMENTS

- 1) Verify **All** conditions identified in the “Memory Joggers” section are met (or are not applicable); if **ANY** are not met, **STOP** and add the necessary step to the WP/SEA to ensure the safest method possible.
- 2) Review the work scope with the crewmembers and associated personnel before starting flushing of pipe begins.
- 3) Release flange joints at test limits and carry out visual inspection.
- 4) Fit/install rated blind flanges/spades at test limit points as per test pack isometrics.
- 5) Fit D&T blind flanges at fill & vent points if required.
- 6) Erect signs & barriers and make announcements over platform PA system.
- 7) Connect fill hose from utility station and top off piping with potable water until water starts to flow or vent out. (Carbon Steel Only)
- 8) Commence flushing operations observing and checking the soundness of the piping and flange joints for leaks.
- 9) Install pump for flushing if a higher volume of water flow is required.
- 10) Increase water volume as required
- 11) On completion of flushing water pressure shall be fully depressurized.
- 12) Completing the depressurization of the piping, crewmembers shall immediately properly drain and button up the open ends for Hydro Testing.
- 13) Perform all QC functions and sign off.
- 14) Upon complementing the work, a review of the work area by the designated person will remove all barriers or will instruct one of the crewmembers to do so.
- 15) The designated person and crewmembers will verify that all the equipment and location have been left in a clean, safe condition. All the tools, equipment and barriers have been removed and all persons have been accounted for.

ENSURE MINIMUM REQUIREMENTS NUMBERS ARE RECORDED ON WP/SEA