

**FUNCTIONAL TESTING CHECKLIST****Equipment/System:**

The following activities should be checked and verified to document handover from construction to commissioning. Unsatisfactory items that are critical to performing testing safely must be corrected prior to handover. Unsatisfactory items that are not critical to performing testing must be documented in the handover punch list, and testing may commence.

Item	Yes	No	N/A	Initials	Date
Construction complete according to the P&IDs as required to commence testing: concrete complete, piping installed, piping supports installed, equipment installed and powered, instruments installed and powered. Note architectural components or other features that do not impact startup do not have to be completed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Leak and pressure testing completed satisfactorily for all piping systems.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Leak testing completed satisfactorily for all water holding basins.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Utilities are properly connected to commence testing:					
- Utility water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- Potable water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- Seal water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- Fire water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- Compressed air	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- Natural Gas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
HVAC system operable (only for facilities where HVAC is required for commissioning activities; T&B not required).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Temporary facilities are in place (if applicable) to recirculate test water.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Individual equipment manufacturers' O&M Manuals have been completed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Alignment of equipment complete, (only if alignment <u>not</u> completed by vendors).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Safety devices and equipment are installed, fully functional, adjusted, and tested.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
PLCs installed, wired, pulled, and terminated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Third party electrical tests and adjustments have been completed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Point to point checks have been satisfactorily completed from the equipment /device to the PLC.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Walkthrough with commissioning team has been completed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

