

Pre-Startup Safety Review Checklist

Use before introducing hazardous material or energy into new, modified, repaired, or restarted process equipment.

Facility / Area	Date	Reference
-----------------	------	-----------

Scope and change control

☐	Installed scope matches approved design and MOC	Y / N / N/A	
☐	Design deviations have documented technical approval	Y / N / N/A	
☐	P&IDs, cause-and-effect charts, and equipment data are current	Y / N / N/A	
☐	HAZOP, LOPA, relief, and project pre-start actions are closed	Y / N / N/A	
☐	Temporary systems, overrides, and bypasses are listed and controlled	Y / N / N/A	

Mechanical completion

☐	Equipment tags, materials, valve orientation, and flow direction verified	Y / N / N/A	
☐	Pressure, leak, flushing, cleaning, and reinstatement records accepted	Y / N / N/A	
☐	Flanges, blinds, vents, drains, caps, strainers, and temporary lines checked	Y / N / N/A	
☐	Inspection and quality-control findings meet acceptance criteria	Y / N / N/A	
☐	Construction work cannot affect containment, access, or startup	Y / N / N/A	

Safeguards and systems

☐	Relief devices installed with an open discharge path and correct certification	Y / N / N/A	
☐	Alarms, trips, interlocks, shutdown valves, and detectors function-tested	Y / N / N/A	
☐	Firewater, deluge, communications, emergency power, and alarms available	Y / N / N/A	
☐	Disabled safeguards and overrides removed or approved	Y / N / N/A	
☐	Operating limits and shutdown conditions confirmed	Y / N / N/A	

People, procedures, and permits

☐	Startup, shutdown, normal, abnormal, and emergency procedures approved	Y / N / N/A	
☐	Operators and maintainers trained and understanding verified	Y / N / N/A	
☐	Shift staffing and technical support adequate for startup	Y / N / N/A	
☐	Construction permits and isolations closed or transferred under control	Y / N / N/A	
☐	Simultaneous operations reviewed and conflicting work stopped	Y / N / N/A	

Authorization

☐	Category A actions closed before startup	Y / N / N/A	
☐	Deferred actions have risk controls, owners, approvals, and due dates	Y / N / N/A	
☐	Final multidisciplinary field walkdown completed	Y / N / N/A	
☐	Operations accepts the plant condition and documentation	Y / N / N/A	
☐	Accountable manager gives formal go / no-go decision	Y / N / N/A	

Use note: Adapt this resource to the site's hazards, legal duties, engineering standards, and management system. A checklist does not replace competent technical review.