



Maintenance Pre-Startup Safety Review (PSSR) Checklist

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General Information

Records basic details about the PSSR process.

PSSR Date

Enter date...

Equipment/System Name

Write something...



Equipment/System ID

Write something...

Revision Number (if applicable)

Enter a number...

Brief Description of Changes/Maintenance

Write something...

Type of Change

- ☐ New Equipment
- ☐ Modified Equipment
- ☐ Repair/Maintenance
- ☐ Process Change

Location of Equipment

Write something...

PSSR Initiated By

- ☐ Maintenance
- ☐ Operations
- ☐ Engineering

Scope & Process Review

Verifies understanding of the changes, their impact, and the planned maintenance activities.

Brief Description of Maintenance/Modification

Write something...

Reason for Maintenance/Modification

Write something...

Type of Maintenance (e.g., Preventative, Corrective, Upgrade)

- ☐ Preventative
- ☐ Corrective
- ☐ Upgrade
- ☐ Other

Estimated Duration of Maintenance (Hours)

Enter a number...

Planned Start Date

Enter date...

Planned Start Time

Enter time...

Affected Systems/Areas (Select all that apply)

- ☐ Mechanical
- ☐ Electrical
- ☐ Pneumatic
- ☐ Hydraulic
- ☐ Control System
- ☐ Process Piping
- ☐ Structural

Reference Documentation (e.g., Work Order #, Engineering Change Order)

Write something...

Hazard Identification & Risk Assessment

Identifies potential hazards associated with the work and assesses the level of risk.

Describe the changes made to the equipment or process.

Write something...

List all potential hazards identified related to the changes.

Write something...

Severity of each identified hazard (High, Medium, Low)

- ☐ High
☐ Medium
☐ Low

Probability of Occurrence for each hazard (High, Medium, Low)

- ☐ High
☐ Medium
☐ Low

Risk Score (Severity x Probability - calculated field)

Enter a number...

Existing Risk Mitigation Measures (Select all that apply)

- ☐ Engineering Controls
- ☐ Administrative Controls
- ☐ PPE
- ☐ Training
- ☐ Other (Specify in Long Text)

Describe any additional risk mitigation measures required.

Write something...

Overall Risk Level After Mitigation (High, Medium, Low)

- ☐ High
- ☐ Medium
- ☐ Low

Attach any supporting documentation (e.g., MSDS, P&ID updates).

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Engineering Controls & Safeguards

Confirms the implementation and effectiveness of engineered safety measures.

Are all safety guards in place and functional?

- ☐ Yes
- ☐ No
- ☐ N/A

Emergency Stop (E-Stop) functionality verified?

- ☐ Yes
- ☐ No
- ☐ N/A

Pressure Relief Valves (PRVs) inspected and tested?

- ☐ Yes
- ☐ No
- ☐ N/A

PRV Set Pressure (if applicable)

Enter a number...

Description of any modifications to safety circuits or interlocks (if applicable)

Write something...

Attach photos/documentation of safety device inspection results (e.g., PRV test reports)

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Are all interlocks functioning correctly and preventing access to hazardous areas?

☐ Yes

☐ No

☐ N/A

Administrative Controls & Procedures

Evaluates the adequacy of written procedures, training, permits, and lockout/tagout processes.

Is a detailed, up-to-date maintenance procedure available for this task?

☐ Yes

☐ No

☐ N/A

Which permits are required for this work?

- ☐ Hot Work Permit
- ☐ Confined Space Entry Permit
- ☐ Lockout/Tagout Permit
- ☐ Electrical Work Permit
- ☐ None

Has all personnel involved received the required training for this task?

- ☐ Yes
- ☐ No
- ☐ N/A

Describe any deviations from standard operating procedures and their mitigation strategies.

Write something...

Is a Lockout/Tagout (LOTO) procedure in place and understood by all personnel?

- ☐ Yes
- ☐ No
- ☐ N/A

Date of Last Safety Training for Task

Enter date...

Describe any specific safety briefings given before starting work.

Write something...

Personal Protective Equipment (PPE)

Ensures appropriate PPE is available and used.

Required PPE for Task

- ☐ Safety Glasses
- ☐ Safety Shoes
- ☐ Hard Hat
- ☐ Gloves (Specify Type)
- ☐ Hearing Protection
- ☐ Respirator (Specify Type)
- ☐ High Visibility Vest
- ☐ Face Shield
- ☐ Other (Specify)

PPE Condition Verification Notes

Write something...

Quantity of Safety Glasses Available

Enter a number...

Glove Type Appropriateness

- ☐ Correct Glove Type Selected
- ☐ Glove Type Requires Revision

PPE Inspection Sign-off

Equipment & System Verification

Confirms equipment functionality, safety devices, and system interlocks.

Confirm Lockout/Tagout (LOTO) Devices Installed and Verified?

- ☐ Yes
- ☐ No
- ☐ N/A

Verify Safety Interlocks Functioning Correctly?

- ☐ Yes
- ☐ No
- ☐ N/A

Pressure Test Results (if applicable - e.g., Hydraulic/Pneumatic Systems)

Enter a number...

Verify Emergency Shutdown (ESD) System Functionality?

- ☐ Yes
- ☐ No
- ☐ N/A

Describe Any Observed Issues or Deviations from Expected Behavior:

Write something...

Confirm Guards and Safety Devices in Place and Functioning?

- ☐ Yes
- ☐ No
- ☐ N/A

Date of Last System Calibration (if applicable)

Enter date...

Attach Calibration/Test Reports (if applicable)

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Environmental Considerations

Addresses potential environmental impacts and mitigation measures.

Potential for Spills/Leaks?

- ☐ Yes
- ☐ No
- ☐ Uncertain

Describe potential environmental impacts (e.g., water, air, soil contamination)

Write something...

Estimated Spill Volume (if applicable, in gallons/liters)

Enter a number...

Potential Contaminants Released (Select all that apply)

- ☐ Oil/Grease
- ☐ Solvents
- ☐ Chemicals
- ☐ Dust/Particulates
- ☐ Noise
- ☐ Other (Specify)

Describe mitigation measures to prevent/control environmental impacts.

Write something...

Containment System in Place?

- ☐ Yes
- ☐ No
- ☐ N/A

Supporting Documentation (e.g., spill prevention plan, waste disposal permits)

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Review & Sign-Off

Records sign-off by responsible personnel, confirming the safety review is complete.

PSSR Review Date

PSSR Review Time

Maintenance Supervisor Signature

Operations Representative Signature

Reviewer Name (Maintenance)

Reviewer Name (Operations)

Write something...

Comments/Observations

Write something...

PSSR Approval Code (if applicable)

Enter a number...

Overall PSSR Status

- ☐ Approved
- ☐ Approved with Conditions
- ☐ Rejected