

# 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**

Enter date...

**PSSR Review Time**

Enter time...

**Maintenance Supervisor Signature**

**Operations Representative Signature**

**Reviewer Name (Maintenance)**

Write something...

### 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