



Pressure Equipment Integrity Checklist

Design & Engineering Review

Verification of design basis, codes, standards, and engineering calculations.

Design Code Compliance (e.g., ASME, EN, etc.)

- ☐ ASME
- ☐ EN
- ☐ Other (Specify in Long Text)

Detailed Description of Design Basis

Write something...

Maximum Allowable Pressure (psig/bar)

Enter a number...

Maximum Allowable Temperature (°C/°F)

Enter a number...

Design Calculations (e.g., Stress Analysis Reports)

 Upload File

Design Verification Method

- ☐ Calculations
- ☐ Finite Element Analysis (FEA)
- ☐ Vendor Data
- ☐ Other (Specify in Long Text)

Date of Last Design Review

Enter date...

Summary of Key Design Assumptions

Write something...

Materials Selection & Traceability

Ensuring correct material selection and maintaining traceability records.

Material Specification Adherence

- ☐ Compliant
- ☐ Non-Compliant
- ☐ Not Applicable

Detailed Material Specification Description

Write something...

Material Test Certificates (MTCs)

 Upload File

Material Heat Number

Enter a number...

Traceability Records Description

Write something...

Material Certification Status

- ☐ Certified
- ☐ Uncertified
- ☐ N/A

Date of Material Receipt

Enter date...

Fabrication & Welding

Assessment of fabrication processes, welder qualifications, and welding procedures.

Welder Qualification Expiration Date (for critical welds)

Enter a number...

Welding Procedure Specification (WPS) Verification

- ☐ Verified & Approved
- ☐ Verification Required
- ☐ Not Applicable


Welding Consumables Traceability Verified?

- ☐ Yes
- ☐ No
- ☐ Not Applicable

Details of any Welding Repair or Rework

Write something...

Welder Qualification Records (Sample)

 Upload File

Non-Destructive Examination (NDE) Type Performed (e.g., UT, RT, MT)

- ☐ Ultrasonic Testing (UT)
- ☐ Radiographic Testing (RT)
- ☐ Magnetic Particle Testing (MT)
- ☐ Dye Penetrant Testing (PT)
- ☐ Visual Inspection
- ☐ Other (Specify in Long Text)

Notes regarding NDE results and acceptance criteria

Write something...

Installation & Commissioning

Verification of proper installation, alignment, and commissioning activities.

Installation Completion Date

Enter date...

Equipment Serial Number

Enter a number...

Installation Contractor

- ☐ Contractor A
- ☐ Contractor B
- ☐ Contractor C
- ☐ Other

Installation Notes/Observations

Write something...

Alignment Verification Method

- ☐ Laser Alignment
- ☐ String Line
- ☐ Other

Alignment Readings (X-axis)

Enter a number...

Alignment Readings (Y-axis)

Enter a number...

Commissioning Pressure Test Passed?

- ☐ Yes
- ☐ No

Commissioning Test Reports

 Upload File

Deviations from Installation Plan (if any)

Write something...

Inspection & Testing (Initial)

Confirmation of initial inspections and tests performed upon equipment completion and before service entry.

Date of Hydrostatic Test

Enter date...

Hydrostatic Test Pressure (barg)

Enter a number...

Hydrostatic Test Duration (minutes)

Enter a number...

Hydrostatic Test Results & Observations

Write something...

Hydrostatic Test Report (PDF)

 Upload File

Material Verification Completed?

☐ Yes

☐ No

Design Calculations Verified?

☐ Yes

☐ No

Any Deviations Identified During Initial Inspection?

Write something...

Date of Visual Inspection

Enter date...

Operating Procedures & Training

Review of operating procedures and verification of personnel training.

Describe the documented operating procedures for this equipment.

Write something...

Which operating procedures cover this equipment? (Select all that apply)

- ☐ Startup Procedure
- ☐ Shutdown Procedure
- ☐ Normal Operation Procedure
- ☐ Emergency Shutdown Procedure
- ☐ Pressure Testing Procedure
- ☐ Draining/Venting Procedure


Number of personnel trained on the operating procedures for this equipment.

Enter a number...

Date of last training refresher for personnel operating this equipment.

Enter date...

Upload copy of training records for personnel.

 Upload File

Training Program Type?

- ☐ Classroom
- ☐ Online
- ☐ On-the-Job

Briefly describe the competency assessment conducted post-training.

Write something...

Procedure Revision Control Status?

- ☐ Up-to-date
- ☐ Needs Revision

Risk Based Inspection (RBI)

Implementation and validation of the RBI program, including inspection intervals and methodologies.

RBI Program Revision Number

Enter a number...

Last RBI Program Review Date

Enter date...

RBI Methodology Used (e.g., API 581, EN 12929)

- ☐ API 581
- ☐ EN 12929
- ☐ Other (Specify in LONG_TEXT)

Description of Key Risk Factors Considered

Write something...

Number of Pressure Equipment Items Included in RBI

Enter a number...

Inspection Techniques Used Based on Risk (Select All That Apply)

- ☐ Visual Inspection
- ☐ UT (Ultrasonic Testing)
- ☐ PT (Pressure Testing)
- ☐ MT (Magnetic Particle Testing)
- ☐ Radiographic Testing
- ☐ Other (Specify in LONG_TEXT)

Date of Last RBI Modeling Validation

Enter date...

Summary of Key Findings from RBI Modeling Validation

Write something...

Number of Pressure Equipment Items Reclassified Due to RBI

Enter a number...

Non-Destructive Examination (NDE)

Management of NDE programs, including technique selection, qualification, and interpretation.

NDE Personnel Certification Level

Enter a number...

NDE Techniques Performed (Select all that apply)

- ☐ Visual Inspection (VT)
- ☐ Dye Penetrant Testing (PT)
- ☐ Magnetic Particle Testing (MT)
- ☐ Ultrasonic Testing (UT)
- ☐ Radiographic Testing (RT)
- ☐ Leak Testing (LT)

NDE Procedure References

Write something...

Last NDE Personnel Qualification Expiration Date

Enter date...

Representative NDE Reports (e.g., UT, RT)

 Upload File

Method Used for Ultrasonic Thickness Measurement (If Applicable)

- ☐ Manual
- ☐ Automated (A-Scan)
- ☐ Automated (Phased Array)

Any Anomalies Found During NDE and Corrective Actions Taken

Write something...

Calibration Status of NDE Equipment

- ☐ Within Calibration Period
- ☐ Out of Calibration

Mechanical Integrity (MI) Program

Review and effectiveness of the Mechanical Integrity program, including preventative maintenance and condition monitoring.

Frequency of Visual Inspection (Months)

Enter a number...

Last Visual Inspection Date

Enter date...

Summary of Findings from Last Visual Inspection

Write something...

NDE Techniques Used (e.g., UT, PT, MT, RT)

- ☐ Ultrasonic Testing (UT)
- ☐ Dye Penetrant Testing (PT)
- ☐ Magnetic Particle Testing (MT)
- ☐ Radiographic Testing (RT)
- ☐ Other (Specify)

NDE Technician Certification Expiration Date (YYYYMMDD - Provide for each applicable technique)

Enter a number...

Condition Monitoring Program Type

- ☐ Vibration Analysis
- ☐ Oil Analysis
- ☐ Temperature Monitoring
- ☐ Pressure Monitoring
- ☐ None

Date of Last Internal Inspection

Enter date...

Description of any Repairs or Remedial Actions Performed Since Last Inspection

Write something...

Leak Testing Method

- ☐ Soapy Water
- ☐ Halogen Leak Detector
- ☐ Helium
- ☐ Pressure Decay
- ☐ None

MI Program Reviewer Signature

Management of Change (MOC)

Assessment of MOC procedures related to pressure equipment.

Describe the Proposed Change

Write something...

Justification for the Change (Why is it needed?)

Write something...

Type of Change (e.g., Design, Material, Procedure, Operation)

- ☐ Design Modification
- ☐ Material Substitution
- ☐ Operating Procedure Change
- ☐ Equipment Repair/Replacement
- ☐ Inspection Technique Change

Affected Pressure Rating (psi/bar)

Enter a number...

Affected Operating Temperature (°C/°F)

Enter a number...

Impact on Pressure Equipment Integrity?

- ☐ No Impact
- ☐ Minor Impact
- ☐ Moderate Impact
- ☐ Significant Impact

Upload Relevant Drawings/Specifications (if applicable)

 Upload File

Date of MOC Implementation

Reviewer Signature

Record Keeping & Documentation

Verification of adequate record keeping and documentation practices for pressure equipment.

Date of Last Documentation Review

Summary of Record Keeping System Description

Sample of Pressure Equipment Inspection Reports

 Upload File

Number of Pressure Equipment Records Maintained

Record Storage Method (Electronic/Paper/Hybrid)

- ☐ Electronic
- ☐ Paper
- ☐ Hybrid

Description of Data Backup Procedures

Write something...

Access Control to Pressure Equipment Records

- ☐ Open Access
- ☐ Restricted Access
- ☐ Role-Based Access

Date of Last Audit of Record Keeping System

Enter date...

Regulatory Compliance

Confirmation of compliance with applicable regulations and industry standards.

Applicable Pressure Equipment Regulations

- ☐ ASME Boiler and Pressure Vessel Code
- ☐ European Pressure Equipment Directive (PED)
- ☐ Local/National Regulations (Specify)
- ☐ Other (Specify)

Specify 'Other' Regulation (If selected)

Write something...

Last Inspection Date of Regulatory Documentation

Enter a number...

Next Scheduled Regulatory Inspection/Audit

Enter date...

Third-Party Inspection/Certification Required?

☐ Yes

☐ No

☐ N/A

Upload Regulatory Compliance Documentation (e.g., permits, certificates)

 Upload File

Name of Regulatory Body Contact Person

Write something...

Permit/Certificate Expiration Date (YYYYMMDD)

Enter a number...

Summary of any recent regulatory findings or non-conformances

Write something...