

Visual Inspection Checklist for Piping Systems

Note: Piping systems also include injection points, pumps, compressors, valves, filters, tubing and tube fittings, connected mechanical equipment, instrumentation, and pipe support systems

1. IDENTIFICATION				
Circuit Unique ID Number:	Piping Line Number/Name:		Date:	
Piping System Name:			Bldg:	
Date of Inspection:	Work Order Number:		Pipe Specification #:	
Inspector:		Employee Number:	Phone:	
Comments:				
2. FIELD IDENTIFICATION	Yes	No	Location / Comment	
Is piping labeled/tagged w/Equipment ID#?	☐	☐		
Is pipeline adequately identified?	☐	☐		
Are labels/tags readable?	☐	☐		
Do labels/tags need replacing?	☐	☐		
3. LEAKS	Yes	No	Location / Comment	
Any leaks from the process?	☐	☐		
Any leaks from steam tracing?	☐	☐		
Are any valves leaking?	☐	☐		
Any leaks at leak repair clamps?	☐	☐		
Any evidence of past leaks?	☐	☐		
4. PIPE SUPPORT	Yes	No	Location / Comment	
Any shoes off their supports?	☐	☐		
Any hangers missing or damaged?	☐	☐		
Any spring hangers bottomed-out?	☐	☐		
Any problems with support braces?	☐	☐		
*Any corrosion of supports?	☐	☐		
Any loose or broken brackets?	☐	☐		
5. VIBRATION	Yes	No	Location / Comment	
Any significant vibration observed?	☐	☐		
Any evidence of excessive movement?	☐	☐		
Any pipe distortion observed?	☐	☐		
6. INSULATION **	Yes	No	Location / Comment	
Any physical damage or penetration?	☐	☐		
Any deterioration/damage of weather seals?	☐	☐		
Any bulging or wet insulation?	☐	☐		
Any discoloration indicating leakage?	☐	☐		
Any retaining bands missing/broken?	☐	☐		
Any missing jackets, plugs, or insulation?	☐	☐		
7. CORROSION *	Severe	Mild	No	Location / Comment
Any corrosion at support points or fixtures?	☐	☐	☐	
Any coating or paint deterioration?	☐	☐	☐	
Any areas with scale, pits, or rust?	☐	☐	☐	
Any corrosion between flanges?	☐	☐	☐	
Any significant corrosion of flange bolts?	☐	☐	☐	

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Circuit Unique ID Number:

Piping Line Number/Name:

Date:

8. INSPECTOR

Were any Deficiencies Identified? ☐ No ☐ Yes, see Comments

Is Owner follow-up required to address issues that are concerns, but not deficiencies: ☐ No ☐ Yes, see Comments

Deficiencies and Issues of Concern have been Communicated to Equipment Owner or Delegate (e.g., Maintenance Coordinator)

☐ N/A ☐ Yes, Person Notified: ☐ No, Explain in Comments

Deficiency
Categories:

☐ Leaks ☐ Pipe Supports ☐ Vibration ☐ Corrosion ☐ Insulation ☐ Other:

Qualified Person / Inspector:

Employee Number:

Date:

Owner (Signature required only if Deficiencies or Issues of Concern are identified):

Employee Number:

Date:

Comments:

Note: Send completed form to the Maintenance Representative who updates GEMTS/Maintenance records and then sends the form to the Mechanical Integrity Equipment File Administrator. This form shall be permanently filed in the Mechanical Integrity Equipment File.

* For assistance in determining degree of severity call NDE // ** For assistance in determining the extent of damage call Technical Resources