



## ELECTRIC- OR AIR-POWERED HOIST – PERIODIC INSPECTION

1. B&W Y-12 ID NO.: _____	2. RATED CAPACITY: _____			
3.                   Welded Link Chain	Wire Rope	Roller Chain		
		<b>Accept</b>	<b>Reject</b>	<b>N/A</b>
4. Verify that the hoist is properly marked with (as a minimum):				
<ul style="list-style-type: none"> <li>• Manufacturer's Name</li> <li>• Manufacturer's model or serial number</li> <li>• Rated Capacity</li> <li>• Identification of each control actuator to indicate the direction of resultant motion</li> <li>• Rated air pressure (for air powered only)</li> <li>• Circuit ampacity (for electric powered only)</li> <li>• Voltage of AC or DC power supply and phase and frequency of AC power supply (for electric powered only)</li> </ul>				
5. Visually inspect the hoist and remove from service if any of the following conditions are identified:				
a. Maladjustment of functional operating mechanisms that interfere with proper operation or unusual sounds that may indicate a deficiency.				
b. Improperly operating limit devices.				
c. Air leakage from lines, valves and other parts.				
d. Wire rope or load chain reeving not in compliance with hoist manufacturer's recommendations.				
e. Evidence of loose bolts, nuts, or rivets.				
f. Evidence of worn, corroded, cracked or distorted parts such as load blocks, suspension housing, wheels, chain attachments, clevises, yokes, suspension bolts, shafts, gears, bearings, pins, rollers, and locking and clamping devices.				
g. Evidence of damage to hook retaining nuts or collars and pins, and welds or rivets used to secure the retaining members.				
h. Evidence of damage or excessive wear of load sprockets, idler sprockets and drums or sheaves.				
i. Evidence of excessive wear on the motor or load brake.				
j. Electrical apparatus for signs of pitting or any deterioration of visible controller contacts.				
k. Evidence of damage of supporting structure or trolley, if used.				
l. Missing or illegible warning label.				
m. Defective end connections of wire rope or load chain.				
6. Visually inspect hooks and remove from service if any of the following conditions are identified.				
a. Distortion, such as bending or twisting > 10 degrees or manufacturer's recommendation record actual measurement(s): _____				
b. Increased throat opening > 15% or manufacturer's recommendation record actual measurement(s): _____				
c. Wear > 10% or manufacturer's recommendation record actual measurement(s): _____				
d. Cracks, nicks, gouges				
e. Latches on hooks that do not seat properly, are missing, do not rotate freely, or show permanent distortion.				
7. Test the hoist in lifting and lowering (testing through complete rated lift length is not required).				
8. Test the operation of hoist brakes.				
9. Test the trip setting of limit devices under no-load conditions.				
10. Comments:				
11. Inspector's Signature: _____		Date: _____		

## **INSTRUCTIONS FOR COMPLETING ELECTRIC- OR AIR-POWERED HOIST PERIODIC INSPECTION**

A qualified inspector shall complete the inspection form by filling in the blanks or placing a check mark in the appropriate column for each inspection item. This form provides a record of equipment condition in order to provide a basis for continuing evaluation.

1. Enter the B&W Y-12 equipment identification number for the electric- or air-powered hoist.
2. Enter the rated capacity of the hoist.
3. Check the appropriate box for the type of hoist load carrying element. The appropriate inspection form, Page 2 of 2 shall be selected and completed based on the type of load carrying element used by the hoist.
4. Review the manufacturer's markings and confirm that the information on the hoist is legible and complete.
5. Visually inspect the hoist and remove from service if any of the conditions in a) through m) are identified.
6. Visually inspect the suspension hook and the load hook and remove from service if any of the conditions in a) through e) are identified.
7. Test the hoist in lifting and lowering (testing through complete rated lift length is not required).
8. Test the operation of the hoist brakes.
9. Test the trip-setting of limit devices under no-load conditions, first by hand if practical and then at increasing speeds up to maximum speed.
10. Use this space to provide comments as appropriate. Use of this section is optional.
11. Review the inspection form, sign, and date.