



## MANUAL LEVER OPERATED HOIST – PERIODIC INSPECTION

1. Consolidated Nuclear Security, LLC (CNS) ID NO.: _____			
2. RATED CAPACITY: _____			
3.	Welded Link Chain	Roller Chain	Wire Rope
			Web Strap
			<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>• Rated Capacity</li> <li>• Warning Label</li> <li>• Manufacturer's Model or Serial Number</li> <li>• Identification of Controls to Indicate Function or Direction of Motion</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;			
b) load chain, wire rope or web strap reeving not in compliance with the manufacturer's recommendations;			
c) bends, cracks or other damage to the hoist lever;			
d) damage to the support for the hoist;			
e) loose bolts, nuts or rivets;			
f) worn, corroded, cracked or distorted parts;			
g) damage or excessive wear of load sprockets or idler sprockets and sheaves;			
h) worn, glazed or oil contaminated friction disks; worn pawls, cams or ratchets; corroded, stretched or broken pawl springs;			
i) missing or illegible warning label;			
j) deterioration of end connections of load chain, wire rope or web strap;			
k) damage to hook retaining nuts or collars, pins and welds, or rivets used to secure the retaining members.			
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 recommendations; Record actual measurement(s): _____			
b) increased throat opening > 15% or manufacturer's recommendations; Record actual measurement(s): _____			
c) Wear > 10% or manufacturer's recommendations; Record actual measurement(s): _____			
d) cracks, nicks, gouges, chemical damage, evidence of heat damage;			
e) Latches on hooks that do not seat properly, are missing, or do not rotate freely or show permanent distortion.			
7. Suspend the hoist and check all functions of the hoist in the unloaded state.			
8. Apply a load of at least 100 lbs. times the number of load supporting parts of chain, wire rope, or web strap and check for proper load control.			
9. Comments:			
10. Inspector's Signature: _____			Date: _____

## **INSTRUCTIONS FOR COMPLETING MANUAL LEVER OPERATED 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 evaluations.

1. Enter the Y-12 CNS equipment identification number.
2. Enter the rated capacity of the hoist.
3. Check only the appropriate box for the type of hoist load carrying element. The corresponding 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. Inspect the hoist and remove from service if any of the conditions in a) through k) are identified. The inspection shall include load blocks, suspension housing, levers, chain or web strap attachments, clevises, yokes, suspension bolts, shafts, gears, bearings, pins, rollers, and locking and clamping devices.
6. Visually inspect the suspension hook and load hook, and remove from service if any of the conditions in a) through e) are identified.
7. Suspend the hoist and check all functions while operating the hoist in an unloaded state. (Some hoists may require a nominal load or pull on the load hook to test the lowering motion).
8. Apply a load of at least 100 lbs. times the number of load supporting parts of chain, wire rope, or web strap and check the hoist for proper load control.
9. Review the inspection form, sign, and date.