



WIRE ROPE SLING - PERIODIC INSPECTION

1. Consolidated Nuclear Security, LLC (CNS) ID NO.: _____ 2. SIZE: _____

| | Accept | Reject | N/A |
|--|-------------|--------|-----|
| 2. Verify that the sling is properly marked with (as a minimum). <ul style="list-style-type: none"> • Manufacturer's name. • Rated capacity for the types of hitches used. | | | |
| 3. Visually inspect the entire length of the sling and remove from service if any of the following conditions are identified: | | | |
| a) Strand laid and single part slings with ten randomly distributed broken wires in one rope lay, or five broken wires in one strand in one rope lay; | | | |
| b) Wear or scraping of one-third the original diameter of outside individual wires; | | | |
| c) Kinking, crushing, bird caging, or any other damage resulting in the distortion of the rope structure; | | | |
| d) Evidence of heat damage; | | | |
| e) End attachments that are cracked, deformed, or worn to the extent that the strength of the sling is substantially affected; | | | |
| f) Corrosion of the rope or end attachments; | | | |
| g) Cable laid and braided slings with greater than the allowable number of broken wires or strands (see instructions); | | | |
| 4. 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, or gouges; | | | |
| e) Latches on hooks that do not seat properly, are missing, do not rotate freely, or show permanent distortion. | | | |
| 5. Comments: | | | |
| | | | |
| 6. Inspector's Signature: _____ | Date: _____ | | |

INSTRUCTIONS FOR COMPLETING WIRE ROPE SLING 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 the basis for continuing evaluations.

1. Enter the Y-12 CNS equipment identification number.
2. Enter the size of the wire rope sling.
3. Review the manufacturer's markings and confirm that the information on the sling is legible and complete.
4. Visually inspect the entire length of the sling for items a) thru g).
 - a) For cable laid and braided slings, the following maximum allowable number of broken wires and strands apply.

| <u>Sling Body</u> | Allowable Broken Wires <u>Per Lay or One Braid</u> | Allowable Broken Strands <u>Per Sling Length</u> |
|------------------------------|--|--|
| Less than 8 part braid | 20..... | 1 |
| 8 part and more | 40..... | 1 |
| Cable laid | 20..... | 1 |

5. Inspect hooks and if any of the following conditions exist, they shall be removed from service until repaired or replaced.
 - b) Bending or twisting exceeding 10 degrees (or as recommended by the manufacturer) from the plane of the unbent hook.
 - c) Distortion causing an increase in throat opening exceeding 15% at the narrowest point of the original measurement when the hook was new (or as recommended by the manufacturer).
 - d) Wear exceeding 10% (or as recommended by the manufacturer) of the original section dimension of the saddle of the hook or its load pin.
 - e) Cracks, nicks, and gouges.
 - f) Latches on hooks that do not seat properly, are missing, do not rotate freely, or show permanent distortion.
6. Inspector may use this space to provide comments as appropriate, Use of this section is optional.
7. Review the inspection form and:

If acceptable, affix the new inspection due date sticker to the back of the B&W Y-12 I. D. tag on the sling.

If not acceptable, attach a **Defective Do Not Use** tag to the sling and remove from service. Sign and date the inspection form.