

Just-In-Time Report

Suspect/Counterfeit Rigging Hardware Found in Weather Enclosure/Fabric Structures

December 14, 2007

2007-RL-HNF-0046

Tracking No: 796

Site/Facility: Hanford/All

Event: On or about October 24th of 2007 suspect rigging hardware was found in a weather enclosure/fabric structure at the 218-E-12B low level burial grounds, this hardware was being used to secure the structure during high winds and snow loads. The items found at this time were 148 5/8" and 75 7/8" shackles, these shackles were missing the manufactures name or trade mark as required by ASME B30.26 and are marked "China". Further investigation found additional suspect items such as cable clamps, turnbuckles, and aircraft cable. The cable clamps and turnbuckles were also missing markings as required by ASME B30.26. The aircraft cable spool was missing the manufactures name or trade mark, wire classification, test reports, and the wire construction didn't match what was stated on the spool. A number of these suspect items (shackles, turnbuckles, cable clamps and cable) were selected for testing and failed well below the expected load requirements.

On or about December 5th of 2007 during receipt inspection of a weather enclosure/fabric structure at 105 KE/100K suspect turnbuckles were found, these turnbuckles have various length cables attached and are also in question. In both cases nonconformance reports and occurrence report were written.

On December 12th of 2007 inspection of weather enclosures/fabric structures at the Rattlesnake barricade, Plutonium Finishing Plant, and TRU retrieval trench 4B found suspect turnbuckles thought out the structures.

Important Points: Regardless if the items are used in a rigging application or not it is important to view these as being substandard as it pertains to strength and load calculations based on use of rigging hardware in this application should be questioned.

Actions: The Fluor Hanford S/CI Interpretative Authority has been directed to request all Hanford Site S/CI Point Of Contacts, in their respective areas, to inspect these structures for the use of S/CI listed in this alert and to identify as required by HNF-PRO-301 or the controlling companies S/CI program.

S/CI indicators:

- Shackles shall have name of manufacture's name or their trade mark (China is not a manufacture's name or trade mark), working load limit, and shackle size.
- Turnbuckles shall have manufacture's name or their trade mark (China is not a manufacture's name or trade mark), working load limit or size, and if it is an alloy material then the grade shall be listed.
- Cable clamps shall have cable size, and manufacture's name or their trade mark (China is not a manufacture's name or trade mark).
- Wire rope (cable) shall have listed on the spool manufacture's name or their trade mark (China is not a manufacture's name or trade mark), size and construction, classification and is normally ordered with test reports.

JIT-LL bulletins are prepared based upon preliminary information in order to rapidly communicate important safety related information in the interest of preventing similar events. This bulletin may be revised or a lessons learned may be issued upon receipt of additional information resulting from related event investigations and/or accident reports.