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From: Meredith Brown <racer@lanl.gov>  
Subject: Yellow Alert: Lifting Device Requirements

**Title: YELLOW - Lifting Device Not Meeting Current ASME Requirements**

Identifier: INEEL Lessons Learned #97129  
Date: April 14, 1997

**Lessons Learned Statement:** Lifting yokes designed prior to 1990 may not meet current ASME/Hoisting and Rigging requirements.

**Discussion of Activities:** An occurrence resulted from the discovery of a discrepancy between the design capacity per the design drawings and the field authorized lifting capacity (load tag rating) of a fuel cask lifting yoke (CRNY-SF-802). The lifting yoke was fabricated in the 1970s and the design was investigated in 1985/86, which resulted in increasing the capacity of from 15 tons to 20 tons. However, this investigation missed the highest stress point, the top hook. A new analysis of the original design discovered that the top lifting hook did not meet the current ASME/Hoisting and Rigging requirements.

**Analysis:** A new analysis of the original design discovered that the top lifting hook did not meet the current ASME/Hoisting and Rigging requirements.

**Recommended Actions:** Perform an in-depth analysis of lifting yokes that were designed/fabrication prior to 1990 to verify the yoke meets the current ASME/Hoisting and Rigging requirements.

Originating Organization: CPP Fuel Storage  
Contact: R. S. Schiffern, 208-526-3952  
Authorized Derivative Classifier: D. Claflin  
Reviewing Official: R. A. Schiffern  
Priority Descriptor: YELLOW/Caution  
Functional Category:  
Keywords: fuel cask lifting yoke, lifting capacity, hoisting and rigging,  
ASME References: ORPS Report ID-LITC-FUELCSTR-1997-0004

Follow-up Action: Information in this report is accurate to the best of our knowledge. As a means of measuring the effectiveness of this report please notify Terry Pierce at (208)526-4288 or by electronic mail at [txp@inel.gov](mailto:txp@inel.gov) of any action taken as a result of this report or of any technical inaccuracies you find. Your feedback is important and appreciated.