

**REPORT OF 72.48 EVALUATIONS PERFORMED FOR THE NUHOMS® HD SYSTEM FOR THE  
PERIOD 01/07/17 to 09/28/17**

**LR 721030-425 Rev. 0 – (no associated UFSAR change)**

**Change Description**

This change involves nonconforming complete joint penetration (CJP) welds on the grapple ring assembly for a NUHOMS® 32PTH Type 1 DSC.

**Evaluation**

The grapple ring assembly is welded to the shell bottom or outer bottom cover plate for the purpose of inserting/extracting the 32PTH DSC to and from the Horizontal Storage Module (HSM-H). The grapple ring assembly does not have a confinement, criticality, shielding or thermal design function nor does it impact a design basis limit for a fission product barrier. Because this change could have an adverse impact on the structural design function of the grapple assembly, a full 72.48 evaluation was completed.

The structural evaluation calculated the increase in stress due to considering double-sided bevel welds in lieu of CJP welds on the grapple ring assembly. The results of this evaluation concluded that the non-conforming welds are structurally adequate to perform their intended design functions. The increased stresses of the grapple ring assembly remain below the allowable stress intensity limits for the most bounding loading combinations specified in the UFSAR.

The evaluation of the safety functions resulting from this nonconformance demonstrate that the eight 72.48 evaluation criteria are met.