February 14, 2001

NOTE TO:

George Hubbard, NUL

FROM:

Ed Throm , NRL

SUBJECT:

Heavy Load Drop

Attached are four publically available papers:

- (1) PSA-operations synergism for the advanced test reactor shutdown operations PSA, DE96014110, Atkinson, S.A.; INEL--96/00180, 12/31/1996
- (2) Cask crush pad analysis using detailed and simplified analysis methods, DE98052578, Uldrich, E.D.; Hawkes, B.D.; INEEL/CON--97-00993, 12/31/1997
- (3) Transportation system benefits of early deployment of a 75-ton multipurpose canister system, DE96004765, Wankerl, M.W.; Schmid, S.P.; CONF-951203--35, 12/31/1995

and a

- (4) Defense Nuclear Facilities Safety Board letter dated July 8, 1999.
- (1) and (4) indicate that cask drops can lead to significant damage. (2) demonstrates that design changes can reduce the risk. (3) provides a list of cask sizes and lifting capacities at some nuclear plants.

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