

February 14, 2001

NOTE TO: George Hubbard, *NRR*  
FROM: Ed Throm, *NRR*  
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.

*B/3/6*