



**Nebraska Public Power District**

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NLS2007056

July 26, 2007

U.S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555-0001

**Subject:** Revised Page from Holtec International Non-Proprietary Report  
Cooper Nuclear Station, Docket No. 50-298, DPR-46

**Reference:** Letter from Stewart B. Minahan, Nebraska Public Power District, to U.S. Nuclear  
Regulatory Commission, dated October 17, 2006, Subject: License Amendment  
Request to Revise Technical Specification -- Onsite Spent Fuel Storage Expansion

Dear Sir or Madam:

The purpose of this letter is to provide to the Nuclear Regulatory Commission (NRC) a revised page from a non-proprietary version of a report by Holtec International (HI). By letter dated October 17, 2006 (Reference), the Nebraska Public Power District (NPPD) submitted a license amendment request (LAR) to revise Cooper Nuclear Station (CNS) Technical Specification (TS) 4.3.3 to increase the capacity of the spent fuel storage pool. HI report HI-2043224, entitled "Licensing Report on the Wet Fuel Storage Capacity Expansion at Cooper Nuclear Station," was submitted to the NRC as part of that LAR.

The NRC Project Manager for CNS requested justification for designating as proprietary the discussion of the computer code LS-DYNA in Section 7.5 of the proprietary version of the HI report mentioned above. This request was coordinated with HI. In response, HI concurred with the NRC that this information had previously been made public, and therefore could not be designated as proprietary. HI has revised Section 7.5 of the proprietary and non-proprietary versions of the report. Enclosed is page 7-5 from the non-proprietary version of the report with the revised Section 7.5.

Should you have any questions regarding this matter, please contact me at (402) 825-2904.

Sincerely,

David Van Der Kamp  
Acting Licensing Manager

**COOPER NUCLEAR STATION**

P.O. Box 98 / Brownville, NE 68321-0098

**Telephone:** (402) 825-3811 / **Fax:** (402) 825-5211

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Enclosure

cc: Regional Administrator w/ Enclosure  
USNRC Region IV

Cooper Project Manager w/ Enclosure  
USNRC - NRR Project Directorate IV-1

Senior Resident Inspector w/ Enclosure  
USNRC - CNS

Nebraska Health and Human Service w/ Enclosure  
Department of Regulation and Licensure

NPG Distribution w/o Enclosure

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Revised Page 7-5 from Holtec International report HI-2043224 (Non-proprietary)  
“Licensing Report on the Wet Fuel Storage Capacity Expansion at Cooper Nuclear Station”

## 7.5 Mathematical Model

In the first step of the solution process, the velocity of the dropped fuel assembly is computed for the condition of underwater free fall in the manner of the formulation presented in the above section. Table 7.5.1 contains the computed velocities for the various drop events. Note that fluid drag was conservatively neglected when calculating the impact velocities used in the finite element model.

In the second step of the solution, an elasto-plastic finite element model for each drop event is prepared with the Holtec QA validated computer code LS-DYNA!

To maximize the damage of the rack, the dropped fuel assembly, which includes the additional weight of the handling tool, is assumed to be rigid in all analyses.

The physical properties of material types undergoing deformation in the postulated impact events are summarized in Table 7.5.2.

0.ATTACHMENT 3 LIST OF REGULATORY COMMITMENTS©

Correspondence Number: NLS2007056

The following table identifies those actions committed to by Nebraska Public Power District (NPPD) in this document. Any other actions discussed in the submittal represent intended or planned actions by NPPD. They are described for information only and are not regulatory commitments. Please notify the Licensing Manager at Cooper Nuclear Station of any questions regarding this document or any associated regulatory commitments.

COMMITMENT	COMMITMENT NUMBER	COMMITTED DATE OR OUTAGE
None		