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 MURLEY, T.E. Document Control Branch (Document Control Desk) *see RPT*

SUBJECT: Application for amends to Licenses DPR-58 & DPR-74, changing
 Tech Specs to accomplish expansion of spent fuel pool
 storage capacity from 2,050 assemblies to 3,613 assemblies
 by replacing existing racks w/higher storage density racks.

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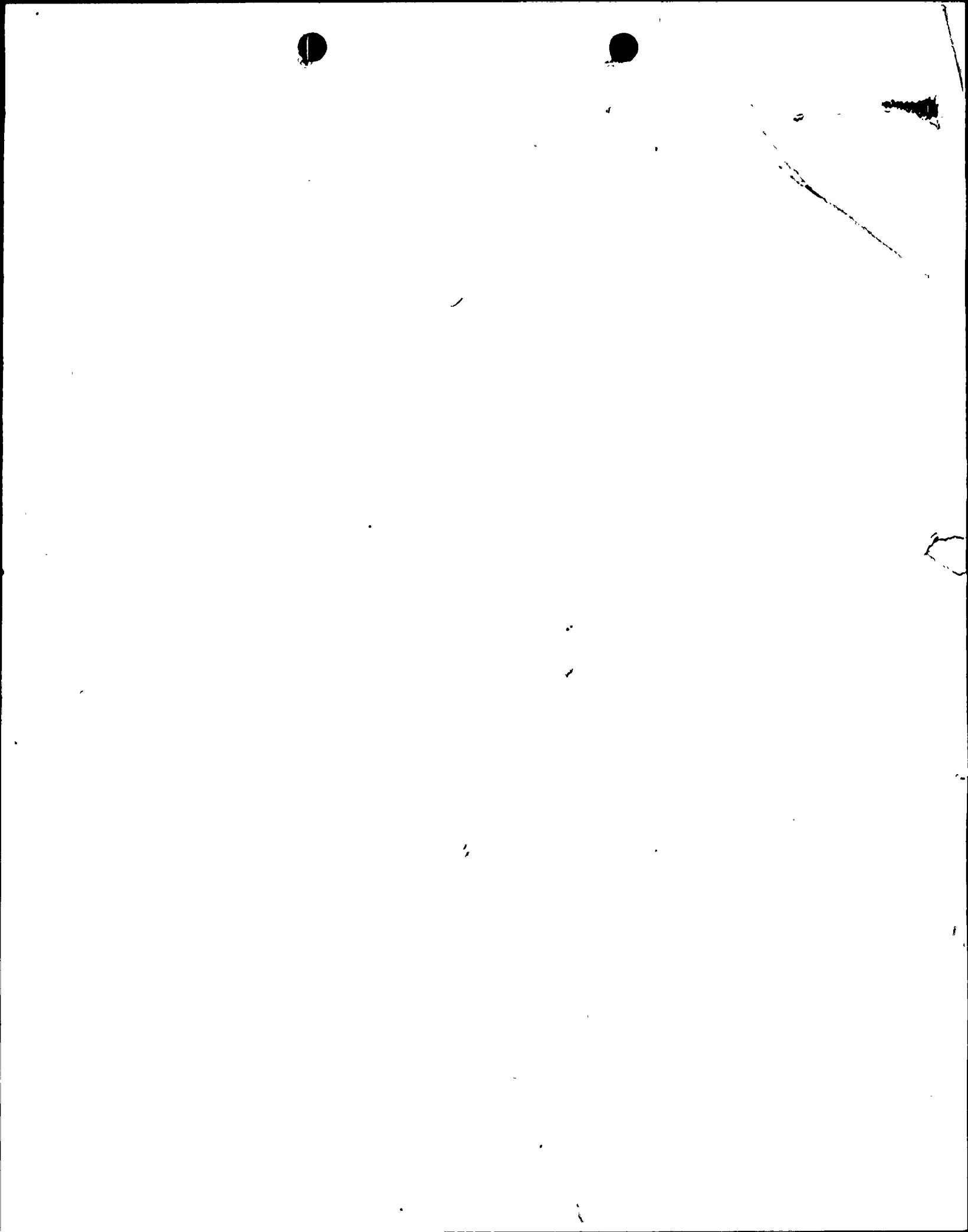
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AEP:NRC:1146

Donald C. Cook Nuclear Plant Units 1 and 2
License Nos. 50-315 and 50-316
Docket Nos. DPR-58 and DPR-74
SPENT FUEL POOL RERACKING TECHNICAL
SPECIFICATION CHANGES

U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D. C. 20555

Attn: T. E. Murley

July 26, 1991

Dear Dr. Murley:

This letter and its attachments constitute an application for amendment of the license conditions and technical specifications (T/Ss) for the Donald C. Cook Nuclear Plant Units 1 and 2. Specifically, the changes proposed in this letter are intended to accomplish an expansion of the spent fuel pool storage capacity from 2050 assemblies to 3613 assemblies. This will be accomplished by replacing the existing racks with higher storage density racks, and by placing racks in areas of the pool where currently no racks exist.

With the present refueling outage schedule, we will lose storage space for a full core off-load (193 assemblies) in 1995. This date could be as early as 1994 depending upon capacity factors achieved by the units' operation, and the necessity to store miscellaneous items, such as old thimble tubes, in storage cells in the spent fuel pool. In order to allow continued operation of the units, we have determined that reracking the spent fuel pool is the best option available. We currently plan to perform the reracking beginning in January 1993. This falls prior to the Unit 2 and Unit 1 refueling outages currently scheduled for August 1993 and January 1994, respectively. In order that this work can be properly planned and executed on a prudent schedule, we request your approval of these changes by January 31, 1992. The changes

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proposed in this letter, however, are such that implementation is not possible until the physical reracking occurs. We, therefore, request that the proposed T/S changes become applicable upon initiation of the reracking of the spent fuel pool.

Attachment 1 provides a detailed description of the proposed changes, the justification for the changes, and our proposed determination of no significant hazards consideration performed pursuant to 10 CFR 50.92. Attachment 2 contains the existing T/S pages marked to reflect the proposed changes. Attachment 3 contains the proposed T/S pages. Attachment 4 contains a non-proprietary licensing report for the reracking project prepared by our contractor, Holtec International.

We believe that the proposed changes will not result in a significant change in the types of effluents or a significant increase in the amounts of any effluent that may be released offsite. This is based on evaluations provided in the Holtec International (Holtec) report. This conclusion is also supported by NUREG 0575, entitled "Final Generic Environmental Impact Statement on Handling and Storage of Spent Light Water Power Reactor Fuel." In NUREG 0575 the NRC concluded that:

The storage of spent fuel in water pools is a well established technology, and under the static conditions of storage represents a low environmental impact and low potential risk to the health and safety of the public.

The Holtec report includes an estimate of the occupational exposure expected during the reracking. This exposure is estimated to be in the range of 6 to 12 rem. As discussed in the Holtec report, occupational exposure following the reracking is not expected to significantly increase.

The proposed changes have been reviewed by the Plant Nuclear Safety Review Committee and will be reviewed by the Nuclear Safety and Design Review Committee at its next regularly scheduled meeting.

In compliance with the requirements of 10 CFR 50.91(b)(1), copies of this letter and its attachments have been transmitted to Mr. J. R. Padgett of the Michigan Public Service Commission and to the Michigan Department of Public Health.

This document has been prepared following Corporate procedures that incorporate a reasonable set of controls to ensure its accuracy and completeness prior to signature by the undersigned.

Sincerely,



E. E. Fitzpatrick
Vice President

eh

Attachments

cc: D. H. Williams, Jr.
A. A. Blind - Bridgman
J. R. Padgett
G. Charnoff
NFEM Section Chief
A. B. Davis - Region III
NRC Resident Inspector - Bridgman