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DESCRIPTION:

Ltr ref their 5-6-75 ltr ... trans the following:

ENCLOSURES:

Appendix A to NAC-1 Spent Fuel Shipping Cask Handling and Loading Procedures ....

[redacted] .....

PLANT NAME: H.B. Robinson #2

FOR ACTION/INFORMATION 5-27-75 JGB

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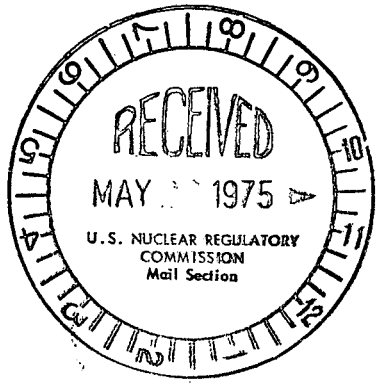
to Lic Asst

CP&L
Carolina Power & Light Company

May 19, 1975

File: NG-3514 (R) Serial: NG-75-728

50-261



Mr. Benard C. Rusche, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Rusche:

H. B. ROBINSON UNIT NO. 2
LICENSE NO. DPR-23
REQUEST FOR WAIVER - SPENT FUEL SHIPMENT

In regard to our request for waiver of requirements for spent fuel dated May 6, 1975, we understand in discussions with your staff that you desire to review our procedure for handling the Nuclear Assurance Corporation (NAC) cask while it is resident in the Robinson plant. In response to this request, we hereby submit as an attachment 40 copies of the subject procedure for your use.

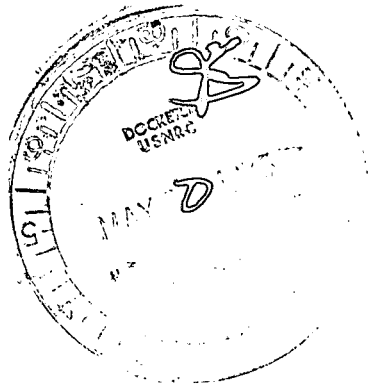
Yours very truly,

E. E. Utley
Vice-President
Bulk Power Supply

DBW:bn

Attachment

cc: Messrs. N. B. Bessac
P. W. Howe
R. E. Jones
J. B. McGirt
D. B. Waters



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336 Fayetteville Street • P. O. Box 1551 • Raleigh, N. C. 27602

Appendix A to NAC-1 Spent Fuel Shipping Cask Handling and Loading Procedure

Handling of NAC-1 Spent Fuel Shipping Cask With Single Yoke

1. Purpose - The purpose of this Appendix is to provide the special precautions and procedures to be employed during the handling of the NAC-1 spent fuel shipping cask using the NFS-4/NFS-5 single lifting yoke and hook adapter. This Appendix is applicable to this shipment of fuel assembly B-05 only and will be used in conjunction with the NAC-1 spent fuel shipping cask handling and loading procedures.

2. Background - CP&L has committed to using redundant cask lifting yoke to preclude the possibility of a cask drop accident in event of a failure of one lifting yoke or cask trunion. Although the minimum design load for a single yoke and set of trunions is three times the working load, redundant yokes are used to provide maximum assurance against a cask drop accident. A postulated drop at the Robinson Plant could result in one of the following:

   a. A drop exceeding 30 feet onto an unyielding surface which could rupture the cask.

   b. A drop into the spent fuel pit which could cause failure of the spent fuel pit bottom by punching shear.

   Special attention to this Appendix is necessary during handling with a single yoke to provide maximum assurance against the postulated cask drop.

3. Prerequisites -

   3.1 The crane operator shall be qualified to operate the 125/5 ton cask handling crane in accordance with USAS B.30.2.0 Section 2-3.1 and shall be familiar with the Crane Operation Manual published by the Crane Manufacturers Association of America.

   _____
   Completed

   3.2 All operational checks and load tests for the crane have been completed with exception of the auxiliary hoist which has not been completed.

   _____
   Completed

   3.3 The crane floor man and crane operator have been briefed and understand the requirements of this Appendix.

   _____
   Completed

   3.4 A waiver to handle the NAC-1 cask with the single lifting yoke has been received from the NRC.

   _____
   Completed

3.5 This Appendix is under the direct supervision of a Senior Reactor Operator who has read and understands the requirements of this Appendix.

SRO Signature

3.6 Sound powered phone or walkie-talkie is available for direct voice communication between the floor man and crane operator.

4. Special Precautions -

4.1 Good communications between the crane operator and floor man are essential. Direct voice communications with sound powered phones or walkie-talkie shall be used for directing all crane movements.

4.2 Crane hoist cable shall be kept vertical at all times. Side pulls are not permitted.

4.3 At no time will a load be left hanging from the crane unless the crane operator is in the cab.

4.4 It is the joint responsibility of the Senior Reactor Operator and the floor man to assure that all connections between the hook (eye) and the cask are secure before making any lifts.

4.5 Only one crane motion can be made at any time, i.e., either hoist, bridge or trolley.

5. Procedure -

5.1 Center the main hoist over the load before starting the hoist to avoid swinging the load after the lift is started. Carefully take up the slack and raise the load a few inches and stop. Inspect the load, all attachments and main hoist to assure no abnormalities. Proceed with the lift by starting slowly and increasing to the maximum speed. Keep the load under constant surveillance during all hoist operations.

5.2 Following 5.1 above, lift and erect the cask from the trailer. Keep the cables vertical by making intermittent bridge movements.

5.3 Move the cask and land it on the decontamination room floor for cask preparation. Keep the load under constant surveillance during all movements.

5.4 With the cask on the decon room floor, the crane operator(s) and floor men will practice movements necessary to disconnect and reconnect the hook adapter from the yoke when in the spent fuel pit. These practice movements will be made to the satisfaction of the Senior Reactor Operator and the NAC Representative.

5.4 Cont'd.

The crane operators and floor men who practice this operation will be the only personnel permitted to perform the actual operation in the spent fuel pit.

_____	_____
Qualifed Crane Operators	Qualified Floor Men

5.5 Following the requirements of 5.1 above, lift and move the cask to the entrance of the spent fuel building and the restricted path area. Keep load under constant surveillance at all times.

5.6 Assure that the restricted path mode is selected for crane controls and place the cask in the center of the cask sit-down area in the spent fuel pit. Keep the load under constant surveillance during all movements. Keep the load as close to the center of the restricted path as possible to avoid tripping the restricted path limit switches and stopping crane motion.

5.7 Remove crane controls from the restricted mode and disconnect the hook adapter from the yoke by following the procedure practiced in step 5.4 above.

5.8 After fuel loading, use the procedure practiced in 5.4 above to reconnect the hook adapter to the yoke.

5.9 Place the crane controls in the restricted path mode and following the requirements of step 5.1 lift and move the cask out of the spent fuel building and place it on the decon room floor for shipping preparation. Keep the load under constant surveillance during all movements.

5.10 Following the requirements of step 5.1 above, lift and move the cask to the trailer. Keep cables vertical by intermittent movements of the bridge while placing the cask in the lay-down position on the trailer.