

July 22, 1987

*Posted  
Collector to*

*Amdt. 107 to DPR-51*

Docket No. 50-313

Mr. T. Gene Campbell  
Vice President, Nuclear  
Operations  
Arkansas Power and Light Company  
Post Office Box 551  
Little Rock, Arkansas 72203

Dear Mr. Campbell:

SUBJECT: AMENDMENT NO. 107 TO FACILITY OPERATING LICENSE  
NO. DPR-51 - ARKANSAS NUCLEAR ONE, UNIT 1

Page 2 of the Safety Evaluation accompanying the subject amendment (NRC letter of July 10, 1987) had a error in line 2 of item 3. The word "cause" should have been "crane". Enclosed is a corrected page. Please substitute it for the page that was included in package sent to you on July 10.

Sincerely,

*/s/*

George F. Dick, Jr., Project Manager  
Project Directorate - IV  
Division of Reactor Projects - III,  
IV, V and Special Projects

Enclosure:  
As stated

cc w/enclosure:  
See next page

DISTRIBUTION

Docket File  
F. Schroeder  
R. Lee  
J. Partlow  
GPA/PA

NRC PDR  
J. Calvo  
OGC-Beth  
T. Barnhart (4 cys for each docket No.)  
ARM/LFMB

Local PDR  
P. Noonan  
D. Hagen  
LFMB

PD4 Reading  
G. Dick  
E. Jordan  
ACRS (10)  
PD4 Plant file

*for* *hld*  
PD4/LA  
PNoonan  
7/22/87

*hld*  
PD4/PM  
GDick:sr  
7/22/87

PD4/D *NAC*  
JCalvo  
7/22/87

Mr. G. Campbell  
Arkansas Power & Light Company

Arkansas Nuclear One, Unit 1

cc:

Mr. J. Ted Enos, Manager  
Nuclear Engineering and Licensing  
Arkansas Power & Light Company  
P. O. Box 551  
Little Rock, Arkansas 72203

Mr. James M. Levine, Director  
Site Nuclear Operations  
Arkansas Nuclear One  
P. O. Box 608  
Russellville, Arkansas 72801

Mr. Nicholas S. Reynolds  
Bishop, Liberman, Cook, Purcell & Reynolds  
1200 Seventeenth Street, N.W.  
Washington, D.C. 20036

Mr. Robert B. Borsum  
Babcock & Wilcox  
Nuclear Power Generation Division  
Suite 220, 7910 Woodmont Avenue  
Bethesda, Maryland 20814

Resident Inspector  
U.S. Nuclear Regulatory Commission  
P. O. Box 2090  
Russellville, Arkansas 72801

Regional Administrator, Region IV  
U.S. Nuclear Regulatory Commission  
Office of Executive Director  
for Operations  
611 Ryan Plaza Drive, Suite 1000  
Arlington, Texas 76011

Mr. Frank Wilson, Director  
Division of Environmental Health  
Protection  
Department of Health  
Arkansas Department of Health  
4815 West Markham Street  
Little Rock, Arkansas 72201

Honorable William Abernathy  
County Judge of Pope County  
Pope County Courthouse  
Russellville, Arkansas 72801

2. Interlocks will also be used to limit the height to which the cask is raised above the floor.
3. Further hoist operation will be prevented by an electrical interlock and the crane hoist control circuits will be disabled under administrative controls once the cask has been raised to the proper height. Consequently, changes in cask height will be prevented during horizontal movement.
4. Cask travel within safe load areas is limited by strict administrative controls in combination with interlocks which limit crane travel to within normal crane load handling areas.
5. The auxiliary building crane is rated at 110 tons compared to the cask which weights 25 tons, thus providing a factor of safety of greater than 4.

The staff notes that provisions similar to those above were made previously (Amendment 36, October 5, 1978) in order to allow use of the auxiliary building crane to move a 25 ton cask (NAC-1) on a one-time basis for the purpose of shipping irradiated boron carbide ( $B_4C$ ) test rods which were stored in the fuel storage pool.

#### EVALUATION

Based on a review of the above information, the staff finds that the potential for a cask drop accident is a highly unlikely occurrence because of the one time use, particularly in view of the added measures provided to preclude a possible cask drop. The consequences would be minimal because of the small number of fuel rods being transported and because the cask will not travel over stored spent fuel. For that reason, a cask drop accident evaluation is not required. The prohibition on cask movement over the spent fuel pool will be maintained during this operation.

Based on the above, the staff concludes that Technical Specifications 3.8.15 can be suspended temporarily to permit use of the auxiliary building crane to move the DOE cask when empty and when containing six specially irradiated fuel rods. When such actions requiring the use of the auxiliary building crane have been completed, Technical Specification 3.8.15 will again be placed in force.

#### ENVIRONMENTAL CONSIDERATION

The amendment relates to changes in installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment