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Docket No. 50-285

Mr. W. C. Jones
 Division Manager, Production
 Operations
 Omaha Public Power District
 1623 Harney Street
 Omaha, Nebraska 68102



Dear Mr. Jones:

SUBJECT: UPGRADED SRO AND RO TRAINING AND TRAINING FOR MITIGATING CORE
 DAMAGE - REQUEST FOR ADDITIONAL INFORMATION

In our review of NUREG-0737 Items Nos. I.A.2.1 and II.B.4 for the Fort Calhoun Station, Unit No. 1, we have identified additional information which we will need in order to complete our review. Our review was based upon your submittals dated July 25, 1980, October 6, 1980, December 31, 1980, September 14, 1981 and December 28, 1981. Science Applications, Inc. under contract to the NRC has developed the attached request for additional information. You should note that the last line of the enclosure states "NRC requires minimum of 80 contact hours...". This is not a NRC requirement at this time; it is a staff position.

We request that you respond within 30 days of receipt of this letter. Please send a copy of your submittal directly to Dr. R. T. Limer, Science Applications, Inc., 1710 Goodridge Drive, McLean, Virginia 22102. This request for information is in accordance with the OMB Clearance No. 3150-0065, which expires May 31, 1983.

Please contact us if you have any questions related to this matter.

Sincerely,

Original signed by
 Robert A. Clark
 Robert A. Clark, Chief
 Operating Reactors Branch #3
 Division of Licensing

Enclosure:
 As stated

cc w/enclosure:
 See next page

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OFFICE	ORB#3:DL	ORB#3:DL	ORB#1:DL	ORB#3:DL		
SURNAME	PMKreutzer	ETourigny/pn	DWigginton	RAClark		
DATE	3/31/82	3/31/82	3/24/82	3/31/82		

Omaha Public Power District

cc:

Marilyn T. Shaw, Esq.
LeBoeuf, Lamb, Leiby & MacRae
1333 New Hampshire Avenue, N.W.
Washington, D. C. 20036

Mr. Jack Jensen
Chairman, Washington County
Board of Supervisors
Blair, Nebraska 68023

U.S. Environmental Protection Agency
Region VII
ATTN: Regional Radiation
Representative
324 East 11th Street
Kansas City, Missouri 64106

Mr. Frank Gibson
W. Dale Clark Library
215 South 15th Street
Omaha, Nebraska 68102

Alan H. Kirshen, Esq.
Fellman, Ramsey & Kirshen
1166 Woodmen Tower
Omaha, Nebraska 68102

Mr. Larry Yandell
U.S.N.R.C. Resident Inspector
P. O. Box 309
Fort Calhoun, Nebraska 68023

Mr. Charles B. Brinkman
Manager - Washington Nuclear
Operations
C-E Power Systems
Combustion Engineering, Inc.
4853 Cordell Avenue, Suite A-1
Bethesda, Maryland 20014

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

Subject: Improvements in Operator Training
and Requalification Programs

Plant: Ft. Calhoun, TAC No. 44162
Docket 50-285

Date: 19 February 1982

LICENSING ACTION REQUEST FOR ADDITIONAL INFORMATION

The U.S. Nuclear Regulatory Commission and its technical assistance contractor, Science Applications, Inc. (SAI), are performing a review to ascertain the acceptability of your response to certain requirements contained in post-TMI Action Items set forth in NUREG-0660 and NUREG-0737:

I.A.2.1 Immediate Upgrading of Reactor Operator and Senior
Reactor Operator Training and Qualifications

II.B.4 Training for Mitigating Core Damage

Specifically, this review addresses the following items from Enclosure 1 of Harold Denton's letter of March 28, 1980, contained in NUREG-0737. Item A.2.c which addresses operator training requirements, item A.2.e which addresses instructor requalification, and Section C which addresses operator requalification. Some of these items are further elaborated in Enclosures 2, 3, and 4 of the Denton letter and in post-TMI Action Item II.B.4 (also in NUREG-0737).

Our review is presently based on your submittal of July 25, 1980, which includes the following:

1. Letter dated July 25, 1980, W. C. Jones to Paul F. Collins.
2. Training Program for Licensing Senior Reactor Operator Candidates (no date)
3. Licensed Operator Requalification Program (no date)

We have assumed in our review that these submittals reflect your current training program. We need answers to the following questions before we can complete our evaluation:

1. The Training Program for Licensing Senior Reactor Operator Candidates has lectures which have the potential for covering the subjects of heat transfer, fluid flow and thermodynamics as called out in enclosure 1 of Denton's March 28, 1980, letter. Do these lectures in fact cover this material, and is the coverage at the

level of detail specified in enclosure 2 of the Denton letter?

2. The Training Program for Licensing Senior Reactor Operator Candidates also has a lecture which appears to have the potential for addressing the subject of using installed plant systems to control or mitigate an accident in which the core is severely damaged. This requirement is called out in enclosure 1 of Denton's letter. Does the training program address the topic at the level of detail spelled out in enclosure 3 of Denton's letter?
3. Are the lectures and quizzes on the subject of accident mitigation given to shift technical advisors and operating personnel from the plant manager through the operating chain to the licensed operators? If they are, would you please provide the titles of the people who are trained and an organization chart which illustrates their position in the operations chain?
4. Do the training program elements which involve heat transfer, fluid flow, thermodynamics and accident mitigation involve 80 contact hours? (A contact hour of instruction is a one-hour period in which the course instructor is present or available for instructing or assisting students; lectures, seminars, discussions, problem-solving sessions, and examinations are considered contact periods under this definition.)
5. The Training Program for Licensing Senior Reactor Operator Candidates calls for training in dealing with transients. Does this training represent an increased emphasis from previous training programs and does it deal with both normal and abnormal conditions?
6. Are instructions in the subjects of heat transfer, fluid flow, thermodynamics and accident mitigation given to all personnel in the requalification program? Do the instructions cover the material at the level of detail spelled out in enclosures 2 and 3 of Denton's March 28, 1980, letter? Does the instruction in these areas involve 80 contact hours?

For item II.B.4 provide an outline of the training program for mitigating core damage, including the number of training hours involved. Your outline can include any training program which relates to the training for mitigating core damage. Follow the guidelines given in the enclosure 3 of H. R. Denton's letter dated March 28, 1980 and INPO Guidelines for Training to Recognize and Mitigate the Consequences of Core Damage (Document Number STG-01, Rev. 1, January 15, 1981). NRC requires minimum of 80 contact hours of training for mitigating core damage.