Nebraska Public Power District

COOPER NUCLEAR STATION
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LQA8200023

June 1, 1982

50-285

Mr. Domenic B. Vassallo, Chief
Operating Reactors Branch #2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Upgraded SRO and RO Training and Training for Mitigating Core Damage - Request for Additional Information

Reference: (1) D. B. Vassallo letter of May 18, 1982, same subject

(2) H. R. Denton letter of March 28, 1980, Qualification of Reactor Operators

(3) NUREG-0737 Item Nos. I.A.2.1 and II.B.4 for the Cooper Nuclear Station

Dear Mr. Vassallo:

The response of Cooper Nuclear Station to reference (1) is included in the enclosure to this letter. The response pertains to those specific items of references (2) and (3).

Sincerely,

J. M. Pilant
Director of Licensing
and Quality Assurance

JMP:KRW:cg
Attach.
cc: Dr. R. T. Liner w/attach.
Science Applications, Inc.
1710 Goodridge Drive
McLean, Virginia 22102

A046

1. Instruction in heat transfer, fluid flow, and thermodynamics is required in the CNS Training Program for all licensed operators and covers all the concepts and topics called out in enclosure 2 of Denton's March 28, 1980 letter. Requalification instruction in heat transfer, fluid flow, and thermodynamics is required whenever the results of the annual licensed operator requalification examination demonstrates the need for such instruction.

2. The elements of the CNS Training Program for licensed operators which are pertinent to BWR accident mitigation involving a degraded core address all of the areas identified in enclosure 3 of Denton's March 28, 1980 letter. Many of the areas are addressed in the abnormal and emergency procedures which all licensed operators are required to review annually. Formal classroom requalification training on accident mitigation involving a degraded core will include all pertinent areas in enclosure 3 of Denton's March 28, 1980 letter.

3. The CNS Training Program elements which include heat transfer, fluid flow, thermodynamics, and accident mitigation involve 80 contact hours or more when presented to personnel having little previous background in these subjects. Presentation of these same subjects to personnel having extensive technical backgrounds on a requalification program may require less time based on the ability of the class to progress through the elements of instruction.

4. The CNS Licensed Operator Training Program has been modified to provide increased emphasis on reactor and plant transients. This has been accomplished by:

   a. Increased emphasis in plant systems training, on the transients produced by system malfunctions, and the effect on the system of transients produced external to the system.

   b. Increased emphasis on the integrated response of reactor plant systems to both normal operating transients and abnormal/accident transients.

   c. Annual simulator training with emphasis on reactor and plant response to normal and abnormal (accident) transients has been scheduled for the year 1982 with tentative annual dates established through 1985.

5. All but one of the instructors conducting the CNS Training and Requalification Programs are licensed operators or senior reactor operators who are enrolled in the CNS Licensed Operator Training Program which, in conjunction with their daily duties, keeps them aware of current plant operating history, problems, and changes in administrative limits. The one instructor who is not licensed teaches plant theory and instrumentation. He is kept aware of appropriate plant conditions and changes by reviewing all design changes, Technical Specification changes, procedure changes, and daily review of control room logs. Additionally, this individual reviews all Operations Department required reading.

6. Lectures and quizzes on accident mitigation were given to the following:

Station Superintendent
Assistant to Station Superintendent
Technical Assistant to Station Superintendent
Operations Supervisor
Shift Supervisor/STA (5)
Shift Supervisor/Training (1)
Shift Supervisor (1)
STA/Engineer (2)
Licensed Operators

The training was also given to the following plant personnel:

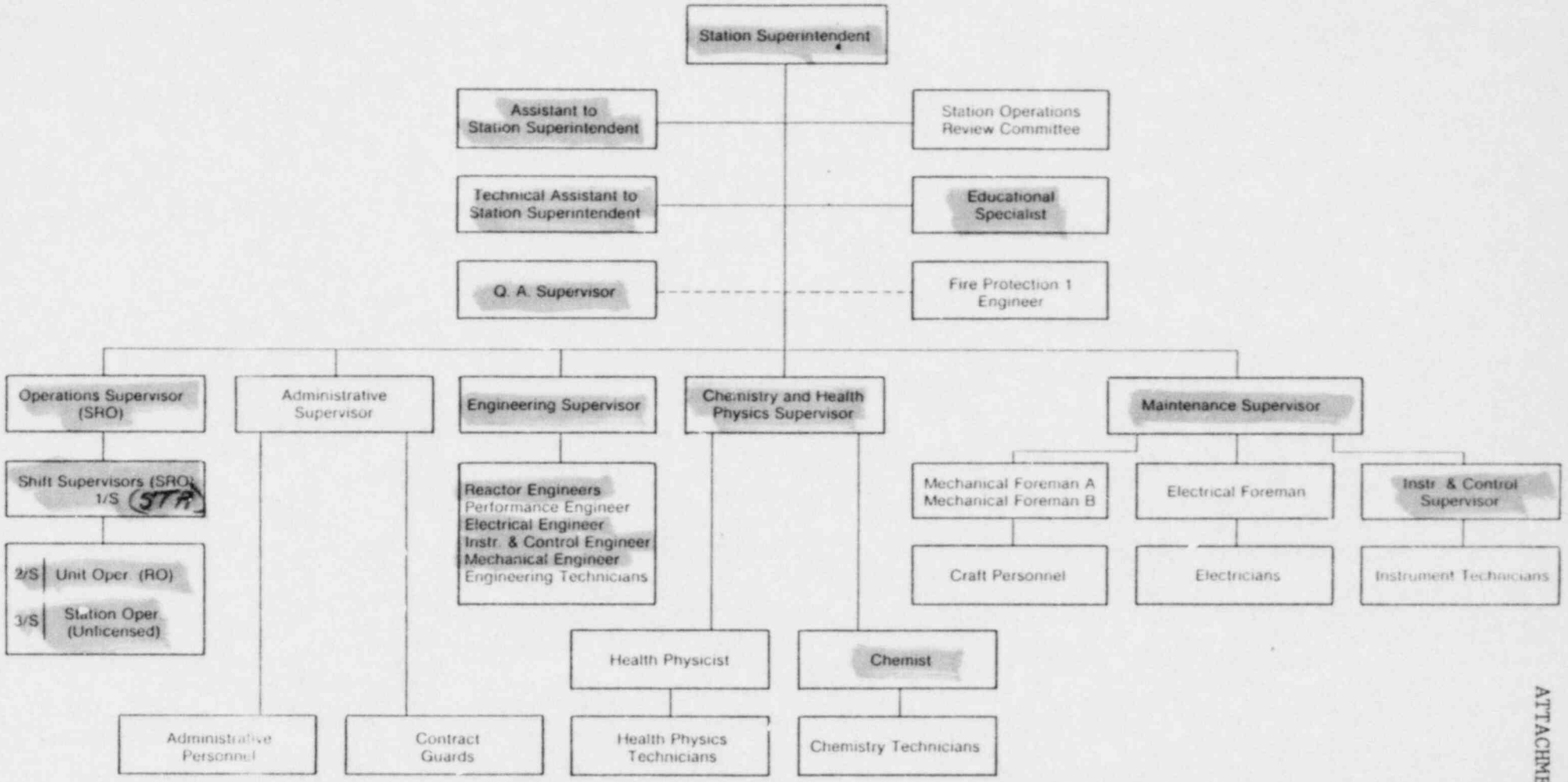
Engineering Supervisor
Chemistry & Health Physics Supervisor
Maintenance Supervisor
Quality Assurance Supervisor
Training Coordinator (Educational Specialist)
Instrument and Control Supervisor
Maintenance Coordinator
Reactor/Nuclear Engineers
Instrument and Control Engineer
Electrical Engineer
Mechanical Engineer
Quality Assurance Specialists
Plant Engineer
Plant Chemist
Station Operators

7. In response to the concern involving our letter of October 1, 1980 requesting exemptions concerning control manipulations for supervisory personnel maintaining SRO licenses, the following procedures have been implemented:

a. Simulator training is now scheduled on an annual basis currently through 1985. Senior supervisory SRO qualified personnel have been assigned along with the crews to participate in and evaluate the necessary manipulations at the simulator.

b. A log of such activities is also being maintained in the control room whereby supervisory personnel indicate their direction or evaluation of actual manipulations performed on this plant.

CNS ORGANIZATION CHART



1/S one/shift
2/S two/shift
3/S three/shift
RO-NRC Reactor Operators License
SRO-NRC Senior Reactor Operators License
1-Functional Position Only
physically located in General Office

ATTACHMENT TO ITEM 6

Figure 6.1.2
Cooper Nuclear Station
Organization Chart

08/03/80