

DUKE POWER COMPANY

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VICE PRESIDENT
NUCLEAR PRODUCTION

TELEPHONE
(704) 373-4531

February 22, 1983

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

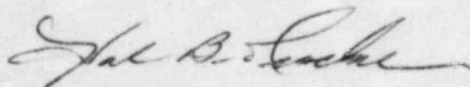
Attention: Ms. E. G. Adensam, Chief
Licensing Branch No. 4

Re: Catawba Nuclear Station
Docket Nos. 50-413 and 50-414

Dear Mr. Denton:

On December 13 and 14, 1982, representatives from Duke Power Company, Westinghouse Electric Corporation, and the NRC Reactor Systems Branch met in Bethesda, Maryland to discuss the open items which remained from previous meetings. Attached is a list of attendees and a meeting summary.

Very truly yours,



Hal B. Tucker

ROS/php
Attachment

cc: Mr. James P. O'Reilly, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
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Atlanta, Georgia 30303

Mr. P. K. Van Doorn
NRC Resident Inspector
Catawba Nuclear Station

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13001

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cc: Mr. Henry A. Presler, Chairman
Charlotte-Mecklenburg Environmental Coalition
943 Henley Place
Charlotte, North Carolina 28207

Mr. Jesse L. Riley
Carolina Environmental Study Group
854 Henley Place
Charlotte, North Carolina 28207

NRC Meeting with Duke
on RSB Open Items

12/13/82

Name

Organization

K. N. Jabbour
Amarjit Singh (a.m.)
James Lazevnick (a.m.)
J. E. Rosenthal
S. Diab
B. Sheron (a.m.)
F. Orr
Melanie Miller
E. M. Burns
R. O. Sharpe
R. C. Gamberg
R. L. Misenheimer
G. E. Hedrick
J. H. Schulte

NRC/DL
NRC/NRR/DSI/ASB
NRC/NRR/DSI/PSB
NRC/DSI
NRC/RSB
NRC/RSB
NRC/RSB
NRC/NRR/DL/LB4
Westinghouse
Duke Power - Licensing
Duke Power - Mechanical Systems
Duke Power - Mechanical Systems
Duke Power - Mechanical Systems
Duke Power - Design Eng. - Lic.

NRC Meeting with Duke
on RSB Open Items

12/14/82

Name

Organization

K. N. Jabbour
R. O. Sharpe
R. L. Misenheimer
E. M. Burns
S. Diab
J. Rosenthal
F. Orr
J. Lazevnick
F. Burrows
G. Hedrick
R. Gamberg
J. Schulte
K. Dempsey (p.m.)
Ted Quay (p.m.)

NRC/DL
Duke Power - Licensing
Duke Power - Mechanical Systems
Westinghouse - Licensing
NRC/RSB
NRC/RSB
NRC/RSB
NRC/PSB
NRC/ICSE
Duke Power - Mechanical Systems
Duke Power - Mechanical Systems
Duke Power - Licensing
NRC/AEB
NRC/AEB

Duke - NRC/RSB Meeting
December 13 and 14, 1982

The following items were discussed:

December 13, 1982

1. Conformance to RSB 5-1 (Q440.134 and 135)

Duke discussed response to these questions which was transmitted by H. B. Tucker's letter of December 10, 1982 to H. R. Denton.

Steam Generator Power Operated Relief Valves

The NRC is currently reviewing Duke's response and will inform Duke of the review results.

Operator Actions Outside the Control Room

Duke had identified the cold leg accumulator isolation valves as the only valves requiring the operator to leave the control room to reposition in order to achieve cold shutdown.

Duke agreed to look at the consequences of allowing the cold leg accumulators to inject during cooldown rather than leaving the control room to isolate the accumulators.

2. Safety valve flow rate versus trip parameter (Q430.130)

The NRC will review the response provided by H. B. Tucker's letter of December 10, 1982.

3. Conformance to RSB 5-2 (Q440.131 and 132)

Duke provided a response to both questions in H. B. Tucker's letter of December 10, 1982. Q440.131 will be reviewed further by Power Systems and Auxiliary Systems. Q440.132 was closed.

4. RHR pump protection with NC System partially drained (Q440.133 and 140)

Duke provided a response in H. B. Tucker's letter of December 10, 1982. This item was closed.

5. Survey of insulation inside containment (Q440.139)

Duke provided a response in H. B. Tucker's letter of December 10, 1982. This item was closed.

6. Spurious movement of valves; RHR interlocks (Q440.141)

Power Systems is reviewing Duke response to Q440.106 and 108. PSB requested that Duke also provide the type of lockout and the description of control room indication.

7. Removal of automatic isolation of miniflow line (Q440.142)

Duke was requested to provide an analysis to show that results were not unacceptable with the miniflow line open.

8. ECCS leak detection (Q440.144)

Duke provided a response in H. B. Tucker's letter of December 10, 1982. This item was closed.

9. Non-seismic piping on miniflow line (Q440.126)

Duke agreed to provide a response.

10. Resetting ECCS after an SI signal (Q440.145)

Duke agreed to look at the feasibility of instructing the operator not to reset ECCS for 10 minutes after initiation.

11. Containment flooding (Q440.48)

This item is being reviewed by RSB and PSB. Duke will provide additional input in response to Q430.13.

December 14, 1982

12. Continuation of discussion of Q440.141 (Item 6 above)

Duke agreed to review a list of typical ECCS valves (attached) which was provided by the NRC Staff, and advise the Staff if the position of these valves is alarmed in the 1.47 Bypass Panel logic.

13. Continuation of discussion of Q440.145 (Item 10 above)

The Staff asked Duke to review the scenario discussed in NUREG-0138 (small break LOCA, operator resets SI, followed by loss of offsite power) and to determine if the load sequencer would shed the ECCS pumps.

14. Sizing of RWST (Q440.136)

Duke provided a response in H. B. Tucker's letter of December 10, 1982. This item was closed.

15. Steam generator tube rupture (Q440.149, 150 and 450.04)

With representatives from the Accident Evaluation Branch in attendance, the credit taken for SG PORVs and pressurizer PORVs in mitigating a SGTR was discussed. Duke was requested to describe the qualifications of the SG PORVs.

16. Boron dilution (Q440.88 and 92)

Duke is still working on this item and will provide a response for NRC Staff review.

17. Locked reactor coolant pump rotor (Q440.128)

The Staff is still reviewing the response provided by Duke in FSAR Revision 6.

18. LOCA analysis (Q440.146 and 147)

A response to both questions will be provided by Duke for NRC Staff review.

19. NPSH (Q440.137)

Duke committed to provide a response to this question.

- (RSB 5-1)
(ECCS) Accumulator Isolation Valves (4) open during normal operation, closed otherwise
- (ECCS) Surge Isolation Valves (2) closed during normal operation and injection mode, open during recirculation mode.
- (ECCS) LPI / Cold Leg Isolation Valves (2) open, except during hot leg recirculation mode (closed).
- (ECCS) HPI / Hot Leg (2) closed, except during hot leg recirculation mode (then open)
- (ECCS) LPI / Hot Leg (1) closed, except during hot leg recirculation mode (then open)
- (ECCS) HPI / Cold Leg (1) open, except during hot leg recirculation mode (then closed)
- ~~(ECCS) RWST / LPI Suction (1) open~~
- (ECCS) HPI / RWST (mainflo) (1) open, except during recirculation mode (then closed)
- (ECCS) RWST / HPI suction (1) open, except during recirculation mode.
- (RHR FMEA)
(ECCS) LPI / Cdg. Suction (1) closed, except during recirculation mode (then open)
- (RHR FMEA)
(ECCS) LPI / HPI Suction (1) closed, except during recirculation mode (then open)
- (RHR FMEA)
(ECCS) RHR / Containment Spray (2) closed, except during recirculation mode
- (RSB 5-1)
(ECCS) RHR suction Isolation (4) closed, except during RHR (or LPT) operation (then open)