



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555
January 23, 1985

Docket No. 50-413

APPLICANT: Duke Power Company
FACILITY: Catawba Nuclear Station, Unit 1
SUBJECT: SUMMARY OF DECEMBER 18 & 19, 1984, MEETING
REGARDING PUMP AND VALVE INSERVICE TESTING PROGRAM

On December 18 and 19, 1984, the NRC and its consultant, EG&G Idaho, Inc., met with Duke Power Company to discuss questions resulting from the review of the Catawba Nuclear Station, Unit 1 Pump and Valve Inservice Testing (IST) Program. These questions are based upon program revisions through Revision 6, and had been transmitted to Duke by NRC letter dated October 19, 1984.

The enclosure includes a list of meeting attendees, the questions that served as the agenda, and the responses as provided by Duke representatives during the meeting. Agreement by Duke representatives regarding the accuracy of the recorded responses was obtained at the conclusion of the meeting.

A handwritten signature in dark ink that reads "Darl S. Hood".

Darl S. Hood, Project Manager
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Enclosure:
As stated

cc: See next page

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Address NRC-DE Address EG&G Idaho, Inc.

TRIP REPORT FOR THE PUMP AND VALVE INSERVICE
TESTING PROGRAM WORKING MEETING FOR CATAWBA, UNIT 1

A working meeting was held at the NRC offices in Bethesda, Maryland with Duke Power Company, NRC, and EG&G representatives on December 18 and 19, 1984 to discuss the questions resulting from the review of the Catawba Unit 1, pump and valve inservice testing (IST) program. Attached is a list of meeting attendees, the questions that served as the agenda for the meeting, and the responses to those questions as taken from the meeting minutes.

The utility representatives were given a brief introduction outlining the agenda and the methods used for documentation of the questions and responses. This was followed by detailed discussions of specific pumps and valves in the Catawba, Unit 1, IST program.

If you have any questions, please contact me at (FTS) 583-9235.

jm

Attachment:
As Stated

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CATAWBA UNIT 1

INSERVICE TESTING PROGRAM REVIEW

A. General Comments and Questions

1. Are valves that perform both containment isolation and pressure boundary isolation functions leak-rate tested to both Appendix J and Section XI criteria?

Response: PIV's are tested to Technical Specifications only and there are no valves identified at the Catawba Station that perform both PIV and CIV functions.

2. Are all containment isolation valves that are leak-rate tested to 10CFR50 Appendix J included in the IST Program and categorized "A" or "AC"?

Response: All valves that are leak-rate tested to 10CFR50 Appendix J are included in the IST program and are categorized "A" or "AC".

3. The current NRC position is the Appendix J leak-rate testing requirements for containment isolation valves is a suitable alternative to the Section XI leak-rate testing requirements except for the requirements of sub-paragraphs IWV-3426 and IWV-3427 which must be met or specific relief requested.

Response: All CIV's are tested to Appendix J and presently Section XI is generally met and the utility will submit a relief request stating the procedure to be used to evaluate valves which do not meet the requirements of Section XI on a case by case basis.

4. The NRC staff has determined that rapid-acting valves are defined as those valves with stroke times of two seconds or less and that valves with stroke time greater than two seconds should be tested in compliance with IWV-3413.

Response: Presently the utility does not trend valves with actuation times of less than 5 seconds. The utility will change their rapid-acting valve classification to ≤ 2 seconds.

ADDITIONAL COMMENT: The utility has stated that all control valves that perform a specific safety function have been included in the IST Program.

B. Steam Generator Blowdown System

1. Review the safety function of the following valves to determine if they should be included in the IST program and categorized as A/C.

| <u>Valve</u> | <u>Location</u> |
|--------------|------------------------|
| 1BB52 | (K-5 P&ID CN 1580-1.0) |
| 1BB53 | (I-5 P&ID CN 1580-1.0) |
| 1BB54 | (F-5 P&ID CN 1580-1.0) |
| 1BB55 | (D-5 P&ID CN 1580-1.0) |

Response: These valves are not presently required to be leak-rate tested in accordance with Appendix J. These valves will not be included in the IST program.

C. Auxiliary Feedwater System

1. Review the safety function of valves 1CA08, 1CA10 and 1CA12 (locations D-9, D-5, C-3 on P&ID CN 1592-1.0) to determine if they should be included in the IST program and categorized as A/C.

Response: OPEN ITEM for the utility to determine how they can demonstrate operability of these valves and the frequency at which it shall be done. The valves will be included in the program as category "C".

2. Provide a brief description of the criteria utilized to establish the maximum stroke time of 60 seconds for the following four inch diaphragm operated valves:

| | |
|-------|-------|
| 1CA36 | 1CA52 |
| 1CA40 | 1CA56 |
| 1CA44 | 1CA60 |
| 1CA48 | 2CA64 |

Response: OPEN ITEM for the utility to evaluate the actual stroke-time of these valves and possibly reassign limiting values more compatible with actual stroke times.

3. Is valve 1CA38A normally open as indicated by the IST tables or normally closed as indicated on P&ID CN 1592-1.1?

Response: This valve is normally closed as indicated on the P&ID and has been corrected with Rev. 7 of the IST program.

D. Feedwater System

1. What is the safety function of the following valves?

| | |
|-------|-------|
| 1CF28 | 1CF30 |
| 1CF37 | 1CF39 |
| 1CF46 | 1CF48 |
| 1CF55 | 1CF57 |

Response: These valves receive a feedwater isolation signal and, therefore, were included in the IST program. The utility has stated they will remove these valves from the IST program since these valves perform no safety function.

ADDITIONAL COMMENT: The utility will also delete valves 1RN839A and 1RN841B from the IST program as they are also non-safety related category "B" valves.

E. Refueling Water System

1. How are check valves 1FW28 and 1FW56 full-stroke exercised quarterly?

Response: These valves were previously being tested utilizing the system cross-tie isolation. This in effect was rendering both trains of ECC inoperable. Revision 7 to the IST program has been issued and changes the check valve testing to partial-stroke exercising quarterly during power operation and full-stroke exercising during cold shutdowns. This revision also changed the RHR pump full flow testing to cold shutdown frequency. The

utility will perform the RHR pump test quarterly at power operation on pump mini-flow and will not be required to perform the full flow test at cold shutdown.

F. Component Cooling System

1. Review the safety function of the following valves to determine if they should be categorized "A".

| | |
|---------|---------|
| 1KC305B | 1KC333A |
| 1KC315B | 1KC338B |
| 1KC320A | 1KC424B |
| 1KC332B | 1KC425A |

Response: These valves receive seal water injection flow and do not require leak-rate testing, therefore, the valves will not be categorized as "A".

2. Review the safety function of check valves 1KC322 and 1KC340 (location B-8 and E-12 P&ID CN 1573-1.3) to determine if they should be included in the IST program and categorized as "A/C".

Response: The outside containment valves receive seal water injection flow and do not require leak-rate testing. The inside valves are considered part of a closed system inside containment and do not require leak-rate testing. Therefore, these valves will not be categorized A/C.

3. Provide a more specific technical justification for not full-stroke exercising valves 1KC333A and 1KC320A quarterly during power operations.

Response: Loss of cooling water to the reactor drain tank will cause rapid heatup and loss of NPSH to the reactor coolant drain tank recirculation pumps and, therefore, force a reactor shutdown if repairs would be required. This appears to be a valid justification for not full-stroke testing quarterly during power operations.

4. Review the safety functions of check valves 1KC280 and 1KC279 (location E-2 and K-5 P&ID CN 1573-1.3) to determine if they should be categorized "AC".

Response: These are thermal reliefs and are not included in the IST program because the penetration is not required to be leak tested since the MOV's receive seal water injection flow.

G. Reactor Coolant System

1. The current NRC position concerning pressurizer power operated reliefs (Branch Technical Position RSB 5-2) is that they should be full-stroke exercised during cold shutdown vice quarterly during power operations due to the high probability of their sticking open. It also requires the PORV block valves be included in the IST program and be tested quarterly in accordance with Section XI. Review the safety function of valves 1NC31B, 1NC33A and 1NC35B for inclusion in the IST program and categorized as "B".

Response: Revision 7 to the IST program changes the PORV testing from quarterly to cold shutdown. Revision 8 will be issued and will include the PORV block valves as category "B" valves, which will be tested quarterly. It was pointed out to the utility that the PORV's must be tested every cold shutdown unless tested within the past three months and cannot be deferred as other valves identified for cold shutdown testing can be.

2. How are valves 1NC53B and 1NC54A fail safe tested quarterly?

Response: These valves are not fail safe tested quarterly as they are motor-operated valves. Revision 1 to the IST program deletes this fail safe test.

3. Review the safety function of valve 1NC56B to determine if it should be categorized "A".

Response: This valve is not currently required to be leak rate tested per Appendix J and will not be categorized "A".

4. Review the safety function of the following valves to determine if they should be included in the IST program and categorized "B".

| | |
|---------|---------------------------------|
| 1NC250A | (location L-7 P&ID CN 1553-1.1) |
| 1NC251B | (location L-7 P&ID CN 1553-1.1) |
| 1NC252B | (location K-7 P&ID CN 1553-1.1) |
| 1NC253A | (location K-7 P&ID CN 1553-1.1) |

Response: These valves have been included in the IST program with Revision 1 as Category "B" valves and will be tested quarterly. The utility will consider changing the testing frequency to cold shutdown. This remains an OPEN ITEM for the utility.

H. Residual Heat Removal System

1. Review the safety function of valves 1ND1B and 1ND2A to determine if they should be categorized "A".

Response: These valves have been added to the IST program as Category "A" valves with Revision 5. These valves have been identified as PIV's.

2. Does full stroke exercising valves 1ND10 and 1ND44 quarterly during power operations reduce the number of low head safety injection flow paths to less than minimum required by FSAR analysis?

Response: These valves have been changed by Revision 7 to partial-stroke exercising quarterly during power operations and full stroke exercising during cold shutdown. Also included for partial and full stroke testing are valves: 1ND32A, 1ND65B, 1NI183B, 1NI173A and 1NI178B.

3. Review the safety function of valves 1ND36B and 1ND37A to determine if they should be categorized "A".

Response: These valves have been included in the IST program with Revision 5 as category "A". These valves have been identified as PIV's.

I. Safety Injection System

1. Review the safety function of valves 1NI9A, 1NI10B and 1NI12 to determine if they should be categorized "A" or "AC".

Response: These valves are not currently required to be leak tested in accordance with Appendix J and will not be categorized "A" or "A/C".

2. Could exercising valves 1NI9A or 1NI10B quarterly during power operations result in flow of non preheated water through the injection lines and thermal shocking of the injection nozzles?

Response: Yes, Revision 7 has changed the frequency of testing to cold shutdown vice quarterly and includes the relief request specifying thermal shock as the reason for requesting relief.

3. How would quarterly exercising of valve 1NI12 result in a decrease in reactor power?

Response: The utility will change the relief request to state quarterly exercising of 1NI12 would result in thermal shock of the injection nozzles.

4. Review the safety function of the following valves to determine if they should be categorized "AC".

| | |
|-------|--------|
| 1NI15 | 1NI351 |
| 1NI17 | 1NI352 |
| 1NI19 | 1NI353 |
| 1NI21 | 1NI354 |

Response: The valves are not currently identified in the station technical specifications as PIV's and will not be included as category "AC" valves. This remains an OPEN ITEM for the NRC.

5. How would quarterly exercising of the following valves result in a decrease in reactor power?

| | |
|-------|--------|
| 1NI15 | 1NI351 |
| 1NI17 | 1NI352 |
| 1NI19 | 1NI353 |
| 1NI21 | 1NI354 |

Response: Same response as item I3 above.

6. Review the safety function of valves 1NI11 and 1NI3 (location H-2 and G-3 P&ID CN 1562-1.0) to determine if they should be included in the IST program and categorized as "A" or "A-passive".

Response: These valves are not currently required to be leak tested in accordance with Appendix J and, therefore, will not be included in the IST program.

7. How are the following check valves full stroke exercised during cold shutdowns?

| | |
|-------|-------|
| 1NI60 | 1NI82 |
| 1NI71 | 1NI94 |

Response: These valves are being exercised by recirculating RHR flow from the vessel during cold shutdown decay heat removal, however, it is felt that the valves cannot be positively verified to full stroke with this flow. It is the utilities position that they will partial stroke exercise all eight of the valves (questions I7 and I8) at a cold shutdown frequency. It is recommended that they institute a sample valve disassembly program (1 valve from each group) to verify valve freedom of movement and valve integrity verification during each refueling outage. This is an OPEN ITEM for the utility.

8. Provide a technical justification for not partial stroke exercising the following valves during the approach to or startup from cold shutdown conditions.

| | |
|-------|-------|
| 1NI59 | 1NI81 |
| 1NI70 | 1NI93 |

Response: See Item 17 above.

9. Review the safety function of the following valves to determine if they should be categorized "A".

| | |
|---------|---------|
| 1NI120B | 1NI152B |
| 1NI121A | 1NI153A |
| 1NI122B | 1NI154B |

Response: Valve 1NI120B has been changed to category A by Revision 1 of the IST program. All remaining valves do not require leak rate testing per Appendix J and, therefore, are category B.

10. Provide a brief description of how the valves listed in relief request H-11 are full stroke exercised during cold shutdown.

Response: The pump not utilized for RHR is aligned to discharge thru the hot leg injection flowpatch to full stroke exercise these valves.

11. Provide a technical justification for not full stroke exercising and stroke timing the following category "A" valves:

| | |
|--------|--------|
| 1NI391 | 1NI395 |
| 1NI392 | 1NI396 |
| 1NI393 | 1NI397 |
| 1NI394 | 1NI398 |

Response: These valves have been recategorized as "A-Passive" with Revision 1 to the IST program.

12. Review the safety function of the following valves to determine if they should be categorized "A".

| | |
|---------|---------|
| 1NI162A | 1NI184B |
| 1NI173A | 1NI185B |
| 1NI178B | |

Response: These valves do not currently require leak rate testing in accordance with Appendix J and will not be categorized as "A".

13. Review the safety function of the following valves to determine if they should be included in the IST program and categorized "A".

| | |
|--------|----------------------------------|
| 1NI163 | (location I-8 P&ID CN 1562-1.3) |
| 1NI174 | (location F-11 P&ID CN 1562-1.3) |
| 1NI179 | (location F-4 P&ID CN 1562-1.3) |

Response: These valves do not currently require leak rate testing in accordance with Appendix J and are not included in the program.

14. Review the safety functions of the following valves to determine if they should be categorized "A".

| | |
|---------|---------|
| 1NI243A | 1NI255B |
| 1NI245A | 1NI258A |

Response: Valves 1NI255B and 1NI258A have been recategorized "A" with Revision 6 to the IST program. Valves 1NI243A and 1NI245A are not currently required to be leak rate tested in accordance with Appendix J and will remain as category "B" valves.

J. Nuclear Sampling System

1. Review the safety function of the following valves to determine if they should be categorized "A".

| | |
|---------|---------|
| 1NM72B | 1NM78B |
| 1NM75B | 1NM81B |
| 1NM187A | 1NM82A |
| 1NM190A | 1NM191B |
| 1NM197B | 1NM200B |
| 1NM201A | 1NM207A |
| 1NM210A | 1NM217B |
| 1NM211B | 1NM220B |
| 1NM221A | |

Response: Valves 1NM72B, 1NM75B, 1NM78B, 1NM81B and 1NM82A have been recategorized "A" with Revision 1 to the IST program. The remaining valves do not currently require leak rate testing in accordance with Appendix J and will remain category "B" valves.

K. Containment Spray System

1. Review the safety function of the following valves to determine if they should be categorized as indicated.

| <u>Category "A"</u> | <u>Category "AC"</u> |
|---------------------|----------------------|
| 1NS12B | 1NS13 |
| 1NS15B | 1NS16 |
| 1NS29A | 1NS30 |
| 1NS32A | 1NS33 |
| 1NS38B | 1NS41 |
| 1NS43A | 1NS46 |

Response: The valves listed under "Category A" are supplied with seal water injection and do not require leak rate testing. The valves listed under "Category AC" currently do not require leak rate testing in accordance with Appendix J and will not be categorized A/C.

ADDITIONAL COMMENT: The containment spray header check valves are currently undergoing disassembly inspection verification each refueling outage, the utility wants to

go to a sample disassembly where they will only disassemble one valve each refueling outage. This remains an OPEN ITEM for the utility to submit the relief request for this change.

L. Chemical and Volume Control System

1. Review the safety functions of the following valves to determine if they should be included in the IST program and categorized as indicated.

Category "A"

| | |
|--------|---------------------------------|
| 1NV37A | (location L-7 P&ID CN 1554-1.0) |
| 1NV1A | (location H-1 P&ID CN 1554-1.0) |
| 1NV2A | (location H-2 P&ID CN 1554-1.0) |
| 1NV862 | (location J-9 P&ID CN 1554-1.0) |

Category "AC"

| | |
|--------|----------------------------------|
| 1NV90 | (location D-10 P&ID CN 1554-1.0) |
| 1NV22 | (location F-4 P&ID CN 1554-1.0) |
| 1NV41 | (location K-2 P&ID CN 1554-1.0) |
| 1NV40 | (location K-3 P&ID CN 1554-1.0) |
| 1NV38 | (location L-10 P&ID CN 1554-1.0) |
| 1NV861 | (location L-9 P&ID CN 1554-1.0) |
| 1NV33 | (location K-10 P&ID CN 1554-1.0) |
| 1NV34 | (location K-10 P&ID CN 1554-1.0) |

Response: Valves listed under category A do not perform any safety function and do not require leak rate testing per Appendix J. Valve 1NV90 has been recategorized as "A/C Passive", and valves, 1NV22, 1NV41, 1NV40, 1NV38, 1NV861, 1NV33 and 1NV34 do not require leak rate testing in accordance with Appendix J and will not be included in the IST program.

2. Provide a brief description of how valves 1NV10A, 1NV11A and 1NV13A are fail position tested quarterly during power operation.

Response: The valves are placed in the full open position one at a time and then fail tested closed while letdown is controlled through the remaining two parallel valves.

3. Review the safety function of the following valves to determine if they should be categorized "A".

| | |
|--------|--------|
| 1NV10A | 1NV15B |
| 1NV11A | 1NV89A |
| 1NV13A | 1NV91B |

Response: Valve 1NV15B has been recategorized as "A" with Revision 1. All remaining valves have seal water injection and do not require leak rate testing in accordance with Appendix J and will remain as category "B" in the IST program.

4. Provide a brief description of how check valve 1NV254 is partial stroke exercised during cold shutdown.

Response: The refueling water storage tank is lined up thru a charging pump airflow line to the VCT and a partial stroke performed.

5. Review the safety functions of valve 1NV314B to determine if it should be categorized "A".

Response: This valve is currently not required to be leak tested in accordance with Appendix J and will remain as a category "B" valve in the IST program.

6. Review the safety function of check valve 1NV306 (location J-10 P&ID CN 1554-1.2) to determine if it should be included in the IST program and categorized "C".

Response: This valve provides no safety function during any accident condition and any leakage would be stopped by the positive displacement charging pump. This valve will not be included in the IST program.

7. Review the safety function of valve 1NV865A to determine if it should be categorized "A".

Response: This valve does not currently require leak-rate testing in accordance with Appendix J and will remain as category "B" in the IST program.

M. Containment Valve Injection Water System

1. Review the safety function of the following valves to determine if they should be categorized "A" or "AC".

| | |
|---------|--------|
| 1NW105B | 1NW107 |
| 1NW035A | 1NW37 |

Response: These valves do not currently require leak-rate testing in accordance with Appendix J and will remain in the IST program as category "B" or "C" valves.

N. Interior Fire Protection System

1. Review the safety function of valves 1RF389B and 1RF447B to determine if they should be categorized "A".

Response: These valves are supplied with seal water injection and do not require leak rate testing per Appendix J and will remain as category "B" in the IST program.

O. Nuclear Service Water System

1. Review the safety function of valves 1RN404B and 1RN437B to determine if they should be categorized "A".

Response: These valves are supplied with seal water injection and do not require leak rate testing per Appendix J and will remain as category "B" valves in the IST program.

2. Review the safety function of the following valves to determine if they should be categorized "A".

| | |
|---------|---------|
| 1RN429A | 1RN484A |
| 1RN432B | 1RN487B |

Response: These valves are supplied with seal water injection and do not require leak rate testing in accordance with Appendix J and will remain as category "B" valves in the IST program.

P. Main Steam to Auxiliary Equipment

1. Review the safety function of the following valves to determine if they should be included in the IST program and categorized as indicated.

a) Category "C"

1SA6 (location H-5 P&ID CN 1593-1.1)

1SA3 (location G-5 P&ID CN 1593-1.1)

b) Category "B"

Auxiliary Feedwater Pump Turbine Stop Valve

(location G-10 P&ID CN 1593-1.1)

Response: a) This is an OPEN ITEM for the utility to determine if credit is taken in the accident analysis for these check valves closing to prevent dual steam generator blowdown.

b) The turbine stop valve is a normally open valve that receives no safety function signals. It is passive and, therefore, will not be included in the program.

Q. Main Steam System

1. Provide a more detailed technical justification for not full stroke exercising the following valves quarterly during power operations. (Relief Request N01)

1SM1

1SM5

1SM3

1SM7

Response: The utility will reword relief request N01 to specify the reason for not full stroke exercising these valves is because closure of these valves could cause a reactor trip.

R. Diesel Generator Engine Starting Air

1. Review the safety function of the following check valves to determine if they should be included in the IST program and categorized "C".

| | |
|-------|----------------------------------|
| 1VG5 | (location J-2 P&ID CN 1609-4.0) |
| 1VG6 | (location J-13 P&ID CN 1609-4.0) |
| 1VG7 | (location I-2 P&ID CN 1609-4.0) |
| 1VG8 | (location I-13 P&ID CN 1609-4.0) |
| 1VG49 | (location J-2 P&ID CN 1609-4.1) |
| 1VG50 | (location J-13 P&ID CN 1609-4.1) |
| 1VG51 | (location I-2 P&ID CN 1609-4.1) |
| 1VG52 | (location I-13 P&ID CN 1609-4.1) |

Response: The utility will include these valves in the IST program as category "C" with a quarterly check to insure the valves do close to maintain the starting air tanks charged. A note to explain how this surveillance is to be performed will be included in the IST program.

2. What alternate tests have been considered for individual valve operability verification for the check valves identified in relief request W01?

Response: The utility has requested this be maintained as an OPEN ITEM until they can investigate the possibilities for individual valve operability tests.

3. Are each of the four diesel engine air start solenoid valves individually verified operable during quarterly testing?

Response: The utility has requested this be maintained as an OPEN ITEM until they can investigate the possibilities for individual valve operability tests.

S. Instrument Air System

1. Review the safety function of the following check valves to determine if they should be included in the IST program and categorized "C".

| | |
|--------|----------------------------------|
| 1VI367 | (location L-13 P&ID CN 1605-1.1) |
| 1VI368 | (location K-13 P&ID CN 1605-1.1) |
| 1VI369 | (location L-13 P&ID CN 1605-1.1) |
| 1VI370 | (location J-13 P&ID CN 1605-1.1) |
| 1VI98 | (location G-13 P&ID CN 1605-1.1) |
| 1VI99 | (location G-13 P&ID CN 1605-1.1) |
| 1VI113 | (location F-13 P&ID CN 1605-1.1) |
| 1VI114 | (location F-13 P&ID CN 1605-1.1) |
| 1VI103 | (location D-13 P&ID CN 1605-1.1) |
| 1VI104 | (location D-13 P&ID CN 1605-1.1) |
| 1VI108 | (location B-13 P&ID CN 1605-1.1) |
| 1VI109 | (location B-13 P&ID CN 1605-1.1) |

Response: The utility will be modifying the air/nitrogen supply to the pressurizer PORV's at the first refueling outage. The system will be reviewed at that time to determine if any valves need to be included in the IST program.

Presently none of these valves provides any safety function and, therefore, will not be included in the IST program.

T. Liquid Radwaste System

1. Review the safety function of valves 1WL807B and 1WL805A to determine if they should be categorized "A".

Response: These valves are supplied with seal water injection flow and, therefore, do not require leak testing in accordance with Appendix J and will remain as category "B" valves in the IST program.

2. Review the safety function of check valve 1WL806 (location I-8 P&ID CN-1565-2.0) to determine if it should be included in the IST program and categorized "AC".

Response: This valve has been added to the program with Revision 1 as category "A/C Passive" and will be Appendix J leak tested.

3. Review the safety function of valves 1WL825B and 1WL827B to determine if they should be categorized "A".

Response: These valves are provided with seal water injection flow and, therefore, do not require leak testing per Appendix J and will remain as category "B" valves.

4. Review the safety function of check valve 1WL321 (location H-6 P&ID CN-1565-2.4) to determine if it should be included in the IST program and categorized "AC".

Response: This valve was added to the program with Revision 1 as category "A/C Passive" and will be Appendix J leak tested.

5. Review the safety function of valves 1WL867A and 1WL869B to determine if they should be categorized "A".

Response: These valves are supplied with seal water injection flow and, therefore, do not require leak testing per Appendix J and will remain as category "B" valves in the IST program.

U. Control Area Chilled Water System

1. Do valves 1YC58 and 1YC26 (location E-6, E-12 P&ID CN-1578-2.0) have a required fail-safe position?

Response: The utility has stated that these valves have a safety function of modulating for control room temperature control. The utility will investigate including these valves in the IST program and testing quarterly. This is an OPEN ITEM for the utility.

2. Do valves 1YC100 and 1YC150 (location E-12, E-6 P&ID CN-1578-2.2) have a required fail-safe position?

Response: The utility has stated that these valves have a safety function of modulating for control room temperature control. The utility will investigate including these valves in the IST program and testing quarterly. This is an OPEN ITEM for the utility.

W. ADDITIONAL COMMENTS

1. The utility has agreed to submit a change to pump relief request #1 on the Nuclear Service Water Pumps to state that the pump bearings are submerged (inaccessible) and the bearings receive cooling flow from the pumped medium.

MEETING SUMMARY DISTRIBUTION

Docket No(s): 50-413

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