

JULY 1992 ADDENDA  
COOPER NUCLEAR STATION

INSERVICE TESTING PROGRAM FOR  
ASMF CLASS 1, 2, AND 3 COMPONENTS (REVISION 6)

DATE OF ISSUE: JULY 31, 1992

This is an addenda to the loose-leaf version of the Inservice Testing Program, Revision 6, and is issued in the form of replacement or additional pages which contain changes, additions, or deletions.

SUMMARY OF CHANGES

This is the second addenda to be published to the Inservice Testing Program, Revision 6. Changes listed below are identified on the affected program pages by a margin note (i.e., 7/92) adjacent to the affected area, with the exception of pump or valve summary listing pages.

| AFFECTED<br>PAGE(S) | DESCRIPTION                                                                                                                                                                                |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 31                  | Changed valve CIC HPCI-AOV-A018 to HPCI-CV-29CV and the word TESTABLE to INJECTION in the NOTES/DESCRIPTION column. Valve's air operator was removed per DC 89-180A.                       |
| 33                  | Deleted valve HPCI-MOV-M057, including associated valve information. This valve was removed from plant per DC 89-180A.                                                                     |
| 34                  | Deleted valve HPCI-AOV-A043, including associated valve information. This valve does not perform a safety-related function, and therefore, not required to be tested.                      |
| 35                  | Changed valve CIC RCIC-AOV-A022 to RCIC-CV-26CV and the check valve description to INJECTION CHECK VALVE in the NOTES/DESCRIPTION column. Valve's air operator was removed per DC 89-180A. |
| 37                  | Deleted valve RCIC-MOV-M017, including associated valve information. This valve was removed from plant per DC 89-180A.                                                                     |
| 38                  | Deleted valve RCIC-AOV-A035, including associated valve information. This valve does not perform a safety-related function, and therefore, not required to be tested.                      |
| 39                  | Added RV-57 in the NOTES/DESCRIPTION column for valves RV-CV-14CV and RV-CV-16CV. A new relief request was written for these valves.                                                       |
| 42, 43              | Changed the 1 to a 3 in the ISI CLASS column for valves MS-CV-20CV through MS-CV-35CV. Valves were inadvertently assigned ISI Class 1.                                                     |
| 46                  | Deleted the O and added a Q in the TEST FREQ column for valve RW-AOV-A094. Typographical error.                                                                                            |

| AFFECTED PAGE(S) | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                          |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 59               | Deleted valve REC-AOV-TCV863, including associated valve information. Valve was removed from plant per DC 88-201C.                                                                                                                                                                                                                                                   |
| 61               | Changed the word AIR to OIL and (DGSA) to (DGDO) in the 1 <sup>st</sup> in heading. Typographical error.                                                                                                                                                                                                                                                             |
| 75               | For valves SGT-CV-10CV, SGT-CV-14CV, and SGT-CV-15CV: changed CTCO to CTCP and added a CTCO in the TEST RQMT column; added a CS in the TEST FREQ column; added a TJV-14 in the NOTES/DESCRIPTION column. Determined full flow open testing can only be performed at cold shutdown.                                                                                   |
| 79               | Changed the 2 to a 1 in the Approval Note column for RR No. RV-28. Mechanical exercising during refueling outages is being performed in lieu of the disassembly/inspection method. Mechanical exercising during outages (original version of relief request RV-28) was previously approved by virtue of GL 89-04.                                                    |
| 81               | A new relief request, RR No. RV-57, including Description and Approval Note was added to the Relief Request listing. A new relief request (RV-57) is being added to the IST Program.                                                                                                                                                                                 |
| 82               | Changed HPCI-AOV-A018 to HPCI-CV-29CV and RCIC-AOV-A022 to RCIC-CV-26CV in the Description column for TJ No. TJV-13. Valve identification was changed due to DC 89-180A.                                                                                                                                                                                             |
| 82               | A new technical justification, TJ No. TJV-14, including Description was added to the Technical Justifications listing. A new technical justification (TJV-14) is being added to the IST Program.                                                                                                                                                                     |
| 118              | Changed CLASS: 2 to CLASS: 3. Inadvertently assigned Class 2.                                                                                                                                                                                                                                                                                                        |
| 118              | Revised the ALTERNATIVE TEST section to indicate that the valves will be mechanically exercised (in lieu of disassembly, inspection, and manually exercised) during each refueling outage. Disassembly, inspection, and manual exercising is not necessary since the valves are capable of being exercised mechanically.                                             |
| 143              | Changed HPCI-AOV-A018 to HPCI-CV-29CV in the VALVE section. Valve identification was changed due to DC 89-180A.                                                                                                                                                                                                                                                      |
| 143A             | Added new relief request RV-57 for disassembly, inspection, and manually exercising in lieu of full flow open exercising of check valves RF-CV-14CV and RF-CV-16CV when required for post-maintenance testing later in a refueling outage. This is required due to the restrictive conditions that exist which prevent full flow open exercising later in an outage. |
| 150              | Changed HPCI-AOV-A018 to HPCI-CV-29CV and RCIC-AOV-A022 to RCIC-CV-26CV in the VALVE and FUNCTION sections. Valve identification was changed due to DC 89-180A.                                                                                                                                                                                                      |
| 151              | Added new technical justification TJV-14 to document cold shutdown testing (in lieu of quarterly) of valves SGT-CV-10CV, 14CV, and 15CV. Full flow open exercising was determined impractical at plant power operations.                                                                                                                                             |

| VALVE<br>CIC  | P&ID | P&ID<br>COORD. | ISI<br>CLASS | IST<br>CAT | VALVE<br>SIZE | VALVE<br>TYPE | ACT<br>TYPE | NORM<br>POS | TEST<br>RQMT                | TEST<br>FREQ          | NOTES/DESCRIPTION                                               |
|---------------|------|----------------|--------------|------------|---------------|---------------|-------------|-------------|-----------------------------|-----------------------|-----------------------------------------------------------------|
| HPCI-MOV-MO15 | 2041 | D5             | 1            | A          | 10            | GA            | MO          | 0           | AT-1<br>BTO<br>BTC<br>PIT   | RR<br>Q<br>Q<br>2YR   | STEAM SUPPLY INBOARD<br>ISOLATION<br>RV-01, RV-45, RV-56        |
| HPCI-MOV-MO16 | 2041 | D4             | 1            | A          | 10            | GA            | MO          | 0           | AT-1<br>BTO<br>BTC<br>PIT   | RR<br>Q<br>Q<br>2YR   | STEAM SUPPLY OUTBOARD<br>ISOLATION<br>RV-01, RV-45, RV-56       |
| HPCI-CV-29CV  | 2044 | C9             | 1            | A,C        | 14            | CK-S          | SA          | C           | AT-1<br>CTCO<br>CTCC<br>PIT | RR<br>CS<br>CS<br>2YR | INJECTION CHECK VALVE<br>RV-01, RV-45, RV-56, TJV-13            |
| HPCI-MOV-MO19 | 2044 | C8             | 2            | B          | 14            | GA            | MO          | C           | BTO<br>PIT                  | Q<br>1YR              | HPCI INJECTION                                                  |
| HPCI-MOV-MO25 | 2044 | D7             | 2            | A          | 4             | GL            | MO          | C           | AT-1<br>BTO<br>BTC<br>PIT   | RR<br>Q<br>Q<br>2Y    | HPCI PUMP MINIMUM FLOW BYPASS<br>LINE ISOLATION<br>RV-01, RV-45 |
| HPCI-MOV-MO58 | 2044 | G10            | 2            | A          | 16            | GA            | MO          | C           | AT-1<br>BTO<br>BTC<br>PIT   | RR<br>Q<br>Q<br>2Y    | HPCI PUMP SUCTION FROM<br>SUPPRESSION POOL<br>RV-01, RV-56      |
| HPCI-AOV-AO70 | 2044 | E9             | 2            | A          | 1             | BAC           | AO          | C           | AT-1<br>BTO<br>BTC<br>PIT   | RR<br>Q<br>Q<br>2Y    | HPCI EXHAUST BOOTLEG DRAIN<br>INBOARD<br>RV-01, RV-45           |
| HPCI-AOV-AO71 | 2044 | E9             | 2            | A          | 1             | BAC           | AO          | C           | AT-1<br>BTC<br>PIT          | RR<br>Q<br>Q<br>2Y    | HPCI EXHAUST BOOTLEG DRAIN<br>OUTBOARD<br>RV-01, RV-45          |

| VALVE<br>CIC  | P&ID | P&ID<br>COORD. | ISI<br>CLASS | IST<br>CAT | VALVE<br>SIZE | VALVE<br>TYPE | ACT<br>TYPE | NORM<br>POS | TEST<br>RQMT         | TEST<br>FREQ  | NOTES/DESCRIPTION                                                                   |
|---------------|------|----------------|--------------|------------|---------------|---------------|-------------|-------------|----------------------|---------------|-------------------------------------------------------------------------------------|
| HPCI-CV-18CV  | 2044 | B3             | 2            | C          | 2             | CK-P          | SA          | C           | CTCC                 | Q             | CONDENSATE SUPPLY TO HPCI<br>SYSTEM<br>RV-16                                        |
| HPCI-CV-19CV  | 2044 | B8             | 2            | C          | 2             | CK-P          | SA          | C           | CTCC                 | Q             | CONDENSATE SUPPLY TO HPCI<br>SYSTEM<br>RV-16                                        |
| HPCI-V-44     | 2044 | D9             | D            | A,C        | 20            | SCK           | M           | O           | AT-1<br>CTCO<br>CTCC | RR<br>Q<br>RR | HPCI TURBINE EXHAUST TO<br>SUPPRESSION POOL ISOLATION<br>RV-21, RV-01, RV-45, RV-56 |
| HPCI-V-50     | 2044 | F9             | D            | A,C        | 2             | SCK           | M           | O           | AT-1<br>CTCC         | RR<br>RR      | HPCI TURBINE DRAIN TO<br>SUPPRESSION POOL ISOLATION<br>RV-21, RV-01, RV-45          |
|               |      |                |              |            |               |               |             |             |                      |               |                                                                                     |
| HPCI-MOV-MO20 | 2044 | C8             | 2            | B          | 14            | GA            | MO          | O           | BTO<br>PI1           | Q<br>2Y       | HPCI PUMP DISCHARGE                                                                 |
| HPCI-MOV-MO21 | 2044 | D3             | 2            | B          | 10            | GL            | MO          | C           | BTC<br>PIT           | Q<br>2Y       | HPCI PUMP TEST BYPASS TO<br>EMERGENCY CONDENSATE STORAGE                            |
| HPCI-MOV-MO24 | 2044 | E3             | 2            | B          | 10            | GA            | MO          | O           | BTC<br>PIT           | Q<br>2Y       | HPCI PUMP TEST BYPASS<br>REDUNDANT SHUTOFF                                          |
| HPCI-CV-24CV  | 2044 | E10            | 2            | C          | 2             | CK-P          | SA          | C           | CTCO                 | RR            | HPCI EXHAUST VACUUM BREAKER<br>RV-22                                                |
| HPCI-CV-25CV  | 2044 | E11            | 2            | C          | 2             | CK-P          | SA          | C           | CTCO                 | RR            | HPCI EXHAUST VACUUM BREAKER<br>RV-22                                                |
| HPCI-CV-26CV  | 2044 | E10            | 2            | C          | 2             | CK-F          | SA          | C           | CTCO                 | RR            | HPCI EXHAUST VACUUM BREAKER<br>RV-22                                                |

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| VALVE<br>CIC   | P&ID | P&ID<br>COORD. | ISI<br>CLASS | IST<br>CAT | VALVE<br>SIZE | VALVE<br>TYPE | ACT<br>TYPE | NORM<br>POS | TEST<br>RQMT                | TEST<br>FREQ          | NOTES/DESCRIPTION                                         |
|----------------|------|----------------|--------------|------------|---------------|---------------|-------------|-------------|-----------------------------|-----------------------|-----------------------------------------------------------|
| RCIC-MOV-MO15  | 2041 | D6             | 1            | A          | 3             | GA            | MO          | O           | AT-1<br>BTO<br>BTC<br>PIT   | RR<br>Q<br>Q<br>2YR   | RCIC STEAM INBOARD ISOLATION<br>RV-01, RV-45              |
| RCIC-MOV-MO16  | 2041 | D7             | 1            | A          | 3             | GA            | MO          | O           | AT-1<br>BTO<br>BTC<br>PIT   | RR<br>Q<br>Q<br>2YR   | RCIC STEAM OUTBOARD ISOLATION<br>RV-01, RV-45             |
| RCIC-MOV-MO27  | 2043 | D7             | 2            | A          | 2             | GL            | MO          | C           | AT-1<br>BTO<br>BTC<br>PIT   | RR<br>Q<br>Q<br>2Y    | RCIC PUMP MINIMUM FLOW<br>RECIRC TO TORUS<br>RV-01, RV-45 |
| RCIC-MOV-MO41  | 2043 | G10            | 2            | A          | 6             | GA            | MO          | O           | AT-1<br>BTO<br>BTC<br>PIT   | RR<br>Q<br>Q<br>2Y    | RCIC SUPPLY FROM TORUS<br>RV-01, RV-56                    |
| RCIC-CV-26CV   | 2043 | C9             | 1            | A,C        | 4             | CK-S          | SA          | O           | AT-1<br>CTCO<br>CTCC<br>PIT | RR<br>CS<br>CS<br>2YR | INJECTION CHECK VALVE<br>RV-01, RV-45, TJV-13             |
| RCIC-MOV-MO21  | 2043 | C8             | 2            | B          | 4             | GA            | MO          | C           | BTO<br>PIT                  | Q<br>2Y               | RCIC INJECTION TO REACTOR                                 |
| RCIC-MOV-MO18  | 2043 | J3             | 2            | B          | 6             | GA            | MO          | O           | BTO<br>BTC<br>PIT           | Q<br>Q<br>2Y          | RCIC SUPPLY FROM CONDENSATE<br>STORAGE                    |
| RCIC-MOV-MO131 | 2041 | F8             | 2            | B          | 3             | GL            | MO          | C           | BTO<br>PIT                  | Q<br>2Y               | RCIC STEAM SUPPLY TO RCIC<br>TURBINE                      |
| RCIC-MOV-MO132 | 2043 | E3             | 2            | B          | 2             | GL            | MO          | C           | BTO<br>PIT                  | Q<br>2Y               | AUXILIARY COOLING SUPPLY                                  |



| VALVE<br>CIC  | P&ID | P&ID<br>COORD. | ISI<br>CLASS | IST<br>CAT | VALVE<br>SIZE | VALVE<br>TYPE | ACT<br>TYPE | NORM<br>POS | TEST<br>RQMT         | TEST<br>FREQ  | NOTES/DESCRIPTION                                                        |
|---------------|------|----------------|--------------|------------|---------------|---------------|-------------|-------------|----------------------|---------------|--------------------------------------------------------------------------|
| RCIC-V-37     | 2043 | D9             | 2            | A,C        | 8             | SCK           | M           | O           | AT-1<br>CTCO<br>CTCC | RR<br>Q<br>RR | RCIC TURBINE EXHAUST TO<br>TORUS ISOLATION<br>RV-25, RV-01, RV-45, RV-56 |
| RCIC-V-42     | 2043 | G9             | 2            | A,C        | 2             | SCK           | M           | O           | AT-1<br>CTCC         | RR<br>RR      | RCIC VACUUM PUMP DISCHARGE<br>TO TORUS ISOLATION<br>RV-25, RV-01, RV-45  |
| RCIC-RV-10RV  | 2043 | H3             | 2            | C          | 1             | RV            | SA          | C           | CTSR                 | 5Y            | RCIC PUMP SUCTION RELIEF VALVE                                           |
| RCIC-RV-11RV  | 2043 | G5             | 2            | C          | 1             | RV            | SA          | C           | CTSR                 | 5Y            | RCIC AUXILIARY COOLING SYSTEM                                            |
|               |      |                |              |            |               |               |             |             |                      |               |                                                                          |
| RCIC-CV-22CV  | 2043 | E10            | 2            | C          | 1 1/2         | CK-L          | SA          | C           | CTCO                 | RR            | RCIC VACUUM BREAKER<br>RV-26                                             |
| RCIC-CV-23CV  | 2043 | E10            | 2            | C          | 1 1/2         | CK-L          | SA          | C           | CTCO                 | RR            | RCIC VACUUM BREAKER<br>RV-26                                             |
| RCIC-CV-24CV  | 2043 | E10            | 2            | C          | 1 1/2         | CK-L          | SA          | C           | CTCO                 | RR            | RCIC VACUUM BREAKER<br>RV-26                                             |
| RCIC-CV-25CV  | 2043 | E10            | 2            | C          | 1 1/2         | CK-L          | SA          | C           | CTCO                 | RR            | RCIC VACUUM BREAKER<br>RV-26                                             |
| RCIC-MOV-M020 | 2043 | C8             | 2            | B          | 4             | GA            | MO          | O           | BTO<br>PIT           | Q<br>2Y       | RCIC PUMP DISCHARGE                                                      |
| RCIC-MOV-M030 | 2043 | E1             | 2            | B          | 4             | GL            | MO          | C           | BTC<br>PIT           | Q<br>2Y       | RCIC TEST RETURN ROOT                                                    |

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| VALVE<br>CIC | P&ID | P&ID<br>COORD. | ISI<br>CLASS | IST<br>CAT | VALVE<br>SIZE | VALVE<br>TYPE | ACT<br>TYPE | NORM<br>POS | TEST<br>RQMT       | TEST<br>FREQ    | NOTES/DESCRIPTION                                    |
|--------------|------|----------------|--------------|------------|---------------|---------------|-------------|-------------|--------------------|-----------------|------------------------------------------------------|
| MS-RV-71FRV  | 2028 | D9             | 1            | C,B        | 6             | RV            | AO          | C           | CTSR<br>BTO<br>PIT | 5Y<br>RR<br>2YR | SAFETY RELIEF VALVE MAIN STEAM<br>LINE C<br>RV-27    |
| MS-RV-71GRV  | 2028 | E9             | 1            | C,B        | 6             | RV            | AO          | C           | CTSR<br>BTO<br>PIT | 5Y<br>RR<br>2YR | SAFETY RELIEF VALVE MAIN STEAM<br>LINE D<br>RV-27    |
| MS-RV-71HRV  | 2028 | E9             | 1            | C,B        | 6             | RV            | AO          | C           | CTSR<br>BTO<br>PIT | 5Y<br>RR<br>2YR | SAFETY RELIEF VALVE MAIN STEAM<br>LINE D<br>RV-27    |
| MS-CV-20CV   | 2028 | C11            | 3            | C          | 10            | CK-S          | SA          | C           | CTCO               | RR              | 71A RV DISCHARGE VACUUM<br>BREAKER VB 71 A1<br>RV-28 |
| MS-CV-21CV   | 2028 | C11            | 3            | C          | 10            | CK-S          | SA          | C           | CTCO               | RR              | 71A RV DISCHARGE VACUUM<br>BREAKER VB 71 A2<br>RV-28 |
| MS-CV-22CV   | 2028 | C11            | 3            | C          | 10            | CK-S          | SA          | C           | CTCO               | RR              | 71B RV DISCHARGE VACUUM<br>BREAKER VB 71 B1<br>RV-28 |
| MS-CV-23CV   | 2028 | C11            | 3            | C          | 10            | CK-S          | SA          | C           | CTCO               | RR              | 71B RV DISCHARGE VACUUM<br>BREAKER VB 71 B2<br>RV-28 |
| MS-CV-24CV   | 2028 | D11            | 3            | C          | 10            | CK-S          | SA          | C           | CTCO               | RR              | 71C RV DISCHARGE VACUUM<br>BREAKER VB 71 C1<br>RV-28 |
| MS-CV-25CV   | 2028 | D11            | 3            | C          | 10            | CK-S          | SA          | C           | CTCO               | RR              | 71C RV DISCHARGE VACUUM<br>BREAKER VB 71 C2<br>RV-28 |
| MS-CV-26CV   | 2028 | D11            | 3            | C          | 10            | CK-S          | SA          | C           | CTCO               | RR              | 71D RV DISCHARGE VACUUM<br>BREAKER VB 71 D1; RV-28   |

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| *****        |      |                |              |            |               |               |             |             |              |              |                                                      |  |
|--------------|------|----------------|--------------|------------|---------------|---------------|-------------|-------------|--------------|--------------|------------------------------------------------------|--|
| VALVE<br>CIC | P&ID | P&ID<br>COORD. | ISI<br>CLASS | IST<br>CAT | VALVE<br>SIZE | VALVE<br>TYPE | ACT<br>TYPE | NORM<br>POS | TEST<br>RQMT | TEST<br>FREQ | NOTES/DESCRIPTION                                    |  |
| *****        |      |                |              |            |               |               |             |             |              |              |                                                      |  |
| MS-CV-27CV   | 2028 | D11            | 3            | C          | 10            | CK-S          | SA          | C           | CTCO         | RR           | 71D RV DISCHARGE VACUUM<br>BREAKER VB 71 D2<br>RV-28 |  |
| MS-CV-28CV   | 2028 | D9             | 3            | C          | 10            | CK-S          | SA          | C           | CTCO         | RR           | 71E RV DISCHARGE VACUUM<br>BREAKER VB 71 E1<br>RV-28 |  |
| MS-CV-29CV   | 2028 | D9             | 3            | C          | 10            | CK-S          | SA          | C           | CTCO         | RR           | 71E RV DISCHARGE VACUUM<br>BREAKER VB 71 E2<br>RV-28 |  |
| MS-CV-30CV   | 2028 | D9             | 3            | C          | 10            | CK-S          | SA          | C           | CTCO         | RR           | 71F RV DISCHARGE VACUUM<br>BREAKER VB 71 F1<br>RV-28 |  |
| MS-CV-31CV   | 2028 | D9             | 3            | C          | 10            | CK-S          | SA          | C           | CTCO         | RR           | 71F RV DISCHARGE VACUUM<br>BREAKER VB 71 F2<br>RV-28 |  |
| MS-CV-32CV   | 2028 | E9             | 3            | C          | 10            | CK-S          | SA          | C           | CTCO         | RR           | 71G RV DISCHARGE VACUUM<br>BREAKER VB 71 G1<br>RV-28 |  |
| MS-CV-33CV   | 2028 | E9             | 3            | C          | 10            | CK-S          | SA          | C           | CTCO         | RR           | 71G RV DISCHARGE VACUUM<br>BREAKER VB 71 G2<br>RV-28 |  |
| MS-CV-34CV   | 2028 | E9             | 3            | C          | 10            | CK-S          | SA          | C           | CTCO         | RR           | 71H RV DISCHARGE VACUUM<br>BREAKER VB 71 H1<br>RV-28 |  |
| MS-CV-35CV   | 2028 | E9             | 3            | C          | 10            | CK-S          | SA          | C           | CTCO         | RR           | 71H RV DISCHARGE VACUUM<br>BREAKER VB 71 H2<br>RV-28 |  |
| *****        |      |                |              |            |               |               |             |             |              |              |                                                      |  |

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| VALVE<br>CIC   | P&ID         | P&ID<br>COORD. | ISI<br>CLASS | IST<br>CAT | VALVE<br>SIZE | VALVE<br>TYPE | ACT<br>TYPE | NORM<br>POS | TEST<br>RQMT      | TEST<br>FREQ | NOTES/DESCRIPTION                               |
|----------------|--------------|----------------|--------------|------------|---------------|---------------|-------------|-------------|-------------------|--------------|-------------------------------------------------|
| REC-MOV-709MV  | 2031<br>SH 1 | G3             | 4            | B          | 8             | GA            | MO          | O           | BTC<br>PIT        | Q<br>2Y      | DRYWELL RETURN ISOLATION                        |
| REC-MOV-711MV  | 2031<br>SH 2 | C4             | 4            | B          | 6             | GA            | MO          | C           | BTO<br>BTC<br>PIT | Q<br>Q<br>2Y | SOUTH CRITICAL LOOP SUPPLY                      |
| REC-MOV-712MV  | 2031<br>SH 2 | E3             | 4            | B          | 12            | BTF           | MO          | C           | BTO<br>BTC<br>PIT | Q<br>Q<br>2Y | REC HX B SUPPLY                                 |
| REC-MOV-713MV  | 2031<br>SH 2 | D3             | 4            | B          | 12            | BTF           | MO          | C           | BTO<br>BTC<br>PIT | Q<br>Q<br>2Y | REC HX A SUPPLY                                 |
| REC-MOV-714MV  | 2031<br>SH 2 | D4             | 4            | B          | 6             | GA            | MO          | C           | BTO<br>BTC<br>PIT | Q<br>Q<br>2Y | NORTH CRITICAL LOOP SUPPLY                      |
| REC-MOV-721MV  | 2031<br>SH 2 | H1             | 4            | B          | 12            | BTF           | MO          | C           | BTO<br>BTC<br>PIT | Q<br>Q<br>2Y | NORTH CRITICAL RETURN TO<br>REC-P-A AND REC-P-B |
| REC-MOV-722MV  | 2031<br>SH 2 | H2             | 4            | B          | 12            | BTF           | MO          | C           | BTO<br>BTC<br>PIT | Q<br>Q<br>2Y | NORTH CRITICAL RETURN TO<br>REC-P-C AND REC-P-D |
| REC-MOV-1329MV | 2031<br>SH2  | C2             | 4            | B          | 3             | GA            |             | O           | BTC<br>PIT        | Q<br>2Y      | AAW BLDG. SUPPLY                                |
| REC-AOV-TCV861 | 2031<br>SH2  | C10            | 4            | B          | 1             | GL            | AO          | C           | FST               | Q            | FC-R-E INLET-CS PUMP<br>ROOM SE                 |
| REC-AOV-TCV862 | 2031<br>SH2  | C9             | 4            | B          | 1 1/4         | GL            | AO          | C           | FST               | Q            | FC-R-H INLET-RHR PUMP<br>ROOM SE                |



SYSTEM: DIESEL GENERATOR DIESEL OIL (DGDO)

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| VALVE<br>CIC         | PEID<br>SGT | PEID<br>COORD. | ISI<br>CLASS | IST<br>CAT | VALVE<br>SIZE | VALVE<br>TYPE | ACT<br>TYPE | NORM<br>POS | TEST<br>RQMT             | TEST<br>FREQ      | NOTES/DESCRIPTION                                 |
|----------------------|-------------|----------------|--------------|------------|---------------|---------------|-------------|-------------|--------------------------|-------------------|---------------------------------------------------|
| SGT-AOV-249AV        | 2037        | C2             | 4            | B          | 12            | BTF           | AO          | C           | BTO<br>FST<br>PIT        | Q<br>Q<br>2Y      | SGT UNIT A INLET                                  |
| SGT-AOV-250AV        | 2037        | C2             | 4            | B          | 12            | BTF           | AO          | C           | BTO<br>FST<br>PIT        | Q<br>Q<br>2Y      | SGT UNIT B INLET                                  |
| SGT-AOV-251AV        | 2037        | C6             | 4            | B          | 12            | BTF           | AO          | C           | BTC<br>BTO<br>FST<br>PIT | Q<br>Q<br>Q<br>2Y | SGT UNIT A DISCHARGE                              |
| SGT-AOV-252AV        | 2037        | G6             | 4            | B          | 12            | BTF           | AO          | C           | BTC<br>BTO<br>FST<br>PIT | Q<br>Q<br>Q<br>2Y | SGT UNIT B DISCHARGE                              |
| SGT-CV-19CV          | 2037        | F1             | 4            | C          | 12            | CK-W          | SA          | C           | CTCP<br>CTCO             | Q<br>CS           | SGT SUCTION FROM REACTOR<br>BLDG. EXHAUST; TJV-14 |
| SGT-CV-14CV          | 2037        | C6             | 4            | C          | 10            | CK-W          | SA          | C           | CTCP<br>CTCO             | Q<br>CS           | SGT UNIT A FAN EXHAUST<br>TJV-14                  |
| SGT-CV-15CV          | 2037        | G6             | 4            | C          | 10            | CK-W          | SA          | C           | CTCP<br>CTCO             | Q<br>CS           | SGT UNIT B FAN EXHAUST<br>TJV-14                  |
| SGT-AOV-DPCV<br>546A | 2037        | C7             | 3            | B          | 10            | BTF           | AO          | O           | FST                      | Q                 | SGT UNIT A DISCHARGE DPCV                         |
| SGT-AOV-DPCV<br>546B | 2037        | E7             | 3            | B          | 10            | BTF           | AO          | O           | FST                      | Q                 | SGT UNIT B DISCHARGE DPCV                         |
| SGT-AOV-270AV        | 2037        | C1             | 4            | B          | 10            | BTF           | AO          | O           | BTO<br>FST<br>PIT        | Q<br>Q<br>2Y      | SGT UNIT A DILUTION AIR SHUTOFF                   |

RELIEF REQUESTS (Continued)

| <u>RR No.</u> | <u>Description</u>                                                                                       | <u>Approval</u><br><u>Date</u> |
|---------------|----------------------------------------------------------------------------------------------------------|--------------------------------|
| RV-08         | Withdrawn                                                                                                |                                |
| RV-09         | Withdrawn                                                                                                |                                |
| RV-10         | Withdrawn                                                                                                |                                |
| RV-11         | Excess Flow Check Valves Testing Relief                                                                  | 1                              |
| RV-12         | Withdrawn                                                                                                |                                |
| RV-13         | Withdrawn                                                                                                |                                |
| RV-14         | Core Spray Pressure Maintenance Check Valves Testing to the Closed Position (CS-CV-12CV, 13, 14, and 15) | 1                              |
| RV-15         | RHR Pressure Maintenance Check Valves Testing to the Closed Position (RHR-CV-18CV, 19, 24, and 25)       | 1                              |
| RV-16         | HPCI Pressure Maintenance Check Valves Testing to the Closed Position (HPCI-CV-13CV and 19)              | 1                              |
| RV-17         | RHR/SW Core Standby Cooling Check Valve Testing Relief (RHR-CV-20CV)                                     | 2                              |
| RV-18         | SLC-CV-12CV and SLC-CV-13CV Testing Frequency                                                            | 1                              |
| RV-19         | Withdrawn                                                                                                |                                |
| RV-20         | HPCI-CV-11CV Testing Relief                                                                              | 2                              |
| RV-21         | HPCI-V-44 and HPCI-V-50 Testing to the Closed Position                                                   | 1                              |
| RV-22         | HPCI-CV-24CV, 25, 26, and 27 Testing Frequency                                                           | 2                              |
| RV-23         | RCIC-CV-11CV Testing Relief                                                                              | 2                              |
| RV-24         | RCIC-CV-18CV and 19 Testing to the Closed Position                                                       | 1                              |
| RV-25         | RCIC-V-37 and RCIC-V-42 Testing to the Closed Position                                                   | 1                              |
| RV-26         | RCIC-CV-22CV, 23, 24, and 25 Testing Frequency                                                           | 2                              |
| RV-27         | Main Steam Relief Valve Exercising Testing Frequency (MS-RV-71ARV to 71HRV)                              | 1                              |
| RV-28         | Main Steam Relief Line Vacuum Breaker Check Valve Testing Frequency (MS-CV-20CV to 35)                   | 1                              |

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RELIEF REQUESTS (Continued)

| <u>RR No.</u> | <u>Description</u>                                               | <u>Approval Note</u> |      |
|---------------|------------------------------------------------------------------|----------------------|------|
| RV-49         | Withdrawn                                                        |                      | 8/91 |
| RV-50         | CS-CV-18CV, 19, RHR-CV-26CV and 27 Cold Shutdown Testing Caveat  | 5,7                  | 8/91 |
| RV-51         | RF-CV-14CV and 16 Opening Test Frequency                         | 5,8                  | 8/91 |
| RV-52         | SW-CV-57CV, 58, 59, 60, 61, 62, 63, and 64 Group Closure Testing | 5,8                  | 8/91 |
| RV-53         | HPCI-CV-13CV and 17 Disassembly Testing Frequency                | 2                    |      |
| RV-54         | RHR-CV-10CV, 11, 12, and 13 Disassembly Testing Frequency        | 2                    |      |
| RV-55         | RCIC-CV-20CV and 21 Disassembly Testing Frequency                | 2                    |      |
| RV-56         | IWV-3427 (b) Relief                                              | 4                    |      |
| RV-57         | RF-CV-14CV, RF-CV-16CV Post Maintenance Testing                  | 3                    | 7/92 |

NOTES:

1. Relief Request is approved by Generic Letter (GL) 89-04 via submittal prior to April 3, 1989.
2. Relief Request is approved by GL 89-04, Position 2.
3. Relief Request is approved by GL 89-04, Position 7.
4. Relief Request is approved by GL 89-04, Position 10.
5. Relief Request submitted after April 3, 1989.
6. Relief Request is approved by NRC Safety Evaluation, NRC Letter "Cooper Nuclear Station Inservice Testing Program Relief Requests (TAC No. 76990)," dated August 31, 1990. 8/91
7. Relief Request is approved by NRC Safety Evaluation, NRC Letter "Cooper Nuclear Station Inservice Testing Program Relief Requests (TAC No. 77076)," dated March 11, 1991. 8/91
8. Relief Request is approved by NRC Safety Evaluation, NRC Letter "Cooper Nuclear Station Inservice Testing Program Relief Requests (TAC No. 76991)," dated July 5, 1991. 8/91

TECHNICAL JUSTIFICATIONS

| <u>TJ No.</u> | <u>Description</u>                                |      |
|---------------|---------------------------------------------------|------|
| TJV-01        | RHR-MOV-920MV and RHR-MOV-921MV Testing Frequency |      |
| TJV-02        | RHR-MOV-M017 and RHR-MOV-M018 Testing Frequency   |      |
| TJV-03        | Deleted                                           |      |
| TJV-04        | RR-MOV-M053A and 53B Testing Frequency            |      |
| TJV-05        | CS-CV-18CV, 19, RHE-CV-26CV, and 27               |      |
| TJV-06        | Deleted                                           |      |
| TJV-07        | Deleted                                           |      |
| TJV-08        | Deleted                                           |      |
| TJV-09        | Deleted                                           |      |
| TJV-10        | Deleted                                           |      |
| TJV-11        | DGSA-CV-14CV, 15, 16, and 17 Testing Frequency    |      |
| TJV-12        | CRD-CV-138 (Typical of 137) Test Method           |      |
| TJV-13        | HPCI-CV-29CV and ECIC-CV-26CV Test Frequency      | 7/92 |
| TJV-14        | SGT-CV-10CV, 14 and 15 Testing Frequency          | 7/92 |



## RELIEF REQUEST RV-28

|        |            |            |            |            |
|--------|------------|------------|------------|------------|
| VALVE: | MS-CV-20CV | MS-CV-24CV | MS-CV-28CV | MS-CV-32CV |
|        | MS-CV-21CV | MS-CV-25CV | MS-CV-29CV | MS-CV-33CV |
|        | MS-CV-22CV | MS-CV-26CV | MS-CV-30CV | MS-CV-34CV |
|        | MS-CV-23CV | MS-CV-27CV | MS-CV-31CV | MS-CV-35CV |

CLASS: 3

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FUNCTION: Check valves required to open for vacuum relief of the Main Steam Relief lines to the containment.

REQUIRED TEST: Exercise each quarter or cold shutdown.

BASIS FOR RELIEF: These vacuum breaker check valves are located inside containment. They are inaccessible for mechanical exercising during normal station operations.

Exercising these valves each refueling outage would serve to adequately assess valve operational readiness.

ALTERNATIVE TEST:

Each valve will be mechanically exercised during each refueling outage.

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## RELIEF REQUEST RV-45

| VALVE:       | <u>Penetration</u> | <u>Valves</u>                                           |      |
|--------------|--------------------|---------------------------------------------------------|------|
| X-7A         |                    | MS-AOV-A080A, MS-AOV-A086A                              |      |
| X-7B         |                    | MS-AOV-A080B, MS-AOV-A086B                              |      |
| X-7C         |                    | MS-AOV-A080C, MS-AOV-A086C                              |      |
| X-7D         |                    | MS-AOV-A080D, MS-AOV-A086D                              |      |
| X-8          |                    | MS-MOV-M074, MS-MOV-M077                                |      |
| X-9A         |                    | RF-CV-15CV, RCIC-CV-26CV, RWCU-CV-15CV                  | 7/92 |
| X-9B         |                    | RF-CV-13CV, HPCI-CV-29CV                                | 7/92 |
| X-10         |                    | RCIC-MOV-M015, RCIC-MOV-M016                            |      |
| X-11         |                    | HPCI-MOV-M015, HPCI-MOV-M016                            |      |
| X-12         |                    | RHR-MOV-M018, RHR-MOV-M017                              |      |
| X-13A        |                    | RHR-MOV-M025A, RHR-MOV-M027A                            |      |
| X-13B        |                    | RHR-MOV-M025B, RHR-MOV-M027B                            |      |
| X-14         |                    | RWCU-MOV-M015, RWCU-MOV-M018                            |      |
| X-16A        |                    | CS-MOV-M011A, CS-MOV-M012A                              |      |
| X-16B        |                    | CS-MOV-M011B, CS-MOV-M012B                              |      |
| X-18         |                    | RW-AOV-A094, RW-AOV-A095                                |      |
| X-19         |                    | RW-AOV-A082, RW-AOV-A083                                |      |
| X-25         |                    | PC-MOV-232MV, PC-AOV-238AV                              |      |
| X-25         |                    | PC-MOV-1305MV, PC-MOV-1306MV                            |      |
| X-26         |                    | PC-MOV-231MV, PC-AOV-246AV, PC-MOV-306MV, PC-MOV-1310MV |      |
| X-39A        |                    | RHR-MOV-M026A, RHR-MOV-M031A                            |      |
| X-39B        |                    | RHR-MOV-M026B, RHR-MOV-M031B                            |      |
| X-39B        |                    | PC-MOV-1311MV, PC-MOV-1312MV                            |      |
| X-41         |                    | RR-AOV-740AV, RR-AOV-741AV                              |      |
| X-42         |                    | SLC-CV-12CV, SLC-CV-13CV                                |      |
| X-205        |                    | PC-MOV-233MV, PC-AOV-237AV                              |      |
| X-205        |                    | PC-AOV-243AV, PC-CV-13CV                                |      |
| X-205        |                    | PC-AOV-244AV, PC-CV-14CV                                |      |
| X-205        |                    | PC-MOV-1303MV, PC-MOV-1304MV                            |      |
| X-210A       |                    | RCIC-MOV-M027, RCIC-CV-13CV                             |      |
| X-210A       |                    | RHR-MOV-M016A, RHR-CV-10CV, RHR-CV-12CV                 |      |
| X-210B       |                    | HPCI-MOV-M025, HPCI-CV-17CV                             |      |
| X-210B       |                    | RHR-MOV-M016B, RHR-CV-11CV, RHR-CV-13CV                 |      |
| X-210A, 211A |                    | RHR-MOV-M034A, RHR-MOV-M038A, RHR-MOV-M039A             |      |
| X-210B, 211B |                    | RHR-MOV-M034B, RHR-MOV-M038B, RHR-MOV-M039B             |      |
| X-211B       |                    | PC-MOV-1301MV, PC-MOV-1302MV                            |      |
| X-212        |                    | RCIC-CV-15CV, RCIC-V-37                                 |      |
| X-214        |                    | HPCI-CV-15CV, HPCI-V-44                                 |      |
| X-214        |                    | RHR-MOV-M0166A, RHR-MOV-M0167A                          |      |
| X-214        |                    | RHR-MOV-M0166B, RHR-MOV-M0167B                          |      |
| X-214        |                    | HPCI-AOV-A070, HPCI-AOV-A071                            |      |
| X-220        |                    | PC-MOV-230MV, PC-AOV-245AV, PC-MOV-305MV, PC-MOV-1303MV |      |
| X-221        |                    | RCIC-CV-12CV, RCIC-V-42                                 |      |
| X-222        |                    | HPCI-CV-16CV, HPCI-V-50                                 |      |

## RELIEF REQUEST RV-56

|        |               |               |               |
|--------|---------------|---------------|---------------|
| VALVE: | CS-MOV-M012A  | RHR-MOV-M013B | RWCU-MOV-M018 |
|        | CS-MOV-M012B  | RHR-MOV-M013C | PC-MOV-230MV  |
|        | CS-MOV-M011A  | RHR-MOV-M013D | PC-MOV-231MV  |
|        | CS-MOV-M011B  | HPCI-MOV-M015 | PC-MOV-232MV  |
|        | CS-MOV-M026A  | HPCI-MOV-M016 | PC-MOV-233MV  |
|        | CS-MOV-M026B  | HPCI-CV-29CV  | PC-AOV-237AV  |
|        | CS-MOV-M07A   | HPCI-MOV-M058 | PC-AOV-238AV  |
|        | CS-MOV-M07B   | HPCI-CV-15CV  | PC-AOV-245AV  |
|        | RHR-MOV-M025A | HPCI-V-44     | PC-AOV-246AV  |
|        | RHR-MOV-M025B | RCIC-MOV-M041 | PC-AOV-243AV  |
|        | RHR-MOV-M027A | RCIC-CV-15CV  | PC-AOV-244AV  |
|        | RHR-MOV-M027B | RCIC-V-37     | PC-CV-13CV    |
|        | RHR-MOV-M026A | RF-CV-13CV    | PC-CV-14CV    |
|        | RHR-MOV-M026B | RF-CV-14CV    | PC-AOV-NRV20  |
|        | RHR-MOV-M031A | RF-CV-15CV    | PC-AOV-NRV21  |
|        | RHR-MOV-M031B | RF-CV-16CV    | PC-AOV-NRV22  |
|        | RHR-MOV-M034A | MS-AOV-A080A  | PC-AOV-NRV23  |
|        | RHR-MOV-M034B | MS-AOV-A080B  | PC-AOV-NRV24  |
|        | RHR-MOV-M038A | MS-AOV-A080C  | PC-AOV-NRV25  |
|        | RHR-MOV-M038B | MS-AOV-A080D  | PC-AOV-NRV26  |
|        | RHR-MOV-M039A | MS-AOV-A086A  | PC-AOV-NRV27  |
|        | RHR-MOV-M039E | MS-AOV-A086B  | PC-AOV-NRV28  |
|        | RHR-MOV-M017  | MS-AOV-A086C  | PC-AOV-NRV29  |
|        | RHR-MOV-M018  | MS-AOV-A086D  | PC-AOV-NRV30  |
|        | RHR-MOV-M013A | RWCU-MOV-M015 | PC-AOV-NRV31  |

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CLASS: 1, 2, 4

FUNCTION: PC-AOV-NRV20 through 31 - Close to prevent bypass leakage from drywell to torus.

All other valves listed - Close for primary containment isolation.

REQUIRED TEST: Additional requirements on increased test frequencies and repairs or replacements for valve sizes six inches and larger. [IWV-3427(b)]

BASIS FOR RELIEF: The usefulness of the additional requirements of IWV-3427(b) do not justify the burden of complying with this requirement. Industry experience has shown that leak rate trending or projection of leak rates is not a reliable indicator of degradation as originally thought.

ALTERNATIVE TEST: For these valves, corrective action of IWV-3427(a) will be implemented as necessary and IWV-3427(b) will not be used.

## RELIEF REQUEST RV-57

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VALVE: RF-CV-14CV, RF-CV-16CV

CLASS: 1

FUNCTION: Open to provide a flow path for HPCI (RF-CV-14CV) or RCIC (RF-CV-16CV) to the reactor vessel.

REQUIRED  
TEST: Exercise check valves in accordance with IWV-3522(b).

BASIS FOR  
RELIEF: This relief request only applies to post maintenance testing (PMT) when plant conditions prevent the full flow test from being performed. The full flow test of these valves involves feedwater flow to the reactor vessel. Due to the flow rates involved, sufficient room in the cavity is required for the volume of liquid transferred during the test. The only time sufficient room exists is at the beginning of an outage just prior to cavity flood up.

If maintenance is performed on the subject valves it usually takes place late in the outage, after flood up. Therefore, it is impractical to perform the full flow test for check valve PMT.

ALTERNATIVE  
TEST: When check valve PMT is required and cavity flood up has already taken place during an outage, the valves will be disassembled, inspected and manually exercised (during the outage) to satisfy open exercising PMT requirements.

## TECHNICAL JUSTIFICATION TJV-13

VALVE: HPCI-CV-29CV and RCIC-CV-26CV

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CLASS: 1

FUNCTION: HPCI-CV-29CV - Open to provide flowpath from HPCI pump to the feedwater system; close for primary containment isolation and to prevent overpressurization of HPCI piping.

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RCIC-CV 26CV - Open to provide RCIC flow path to the reactor vessel; close for primary containment isolation and to prevent overpressurization of RCIC piping.

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BASIS FOR  
TECHNICAL

JUSTIFICATION: These valves are normally closed to isolate the reactor coolant system and the HPCI and RCIC systems. Opening these valves during plant power operation would reduce the level of protection of the associated HPCI or RCIC low-pressure suction piping from overpressurization. System piping and/or equipment damage may result if overpressurization occurred. Furthermore, these valves are located in the Steam Tunnel and during power operations, this area experiences temperatures approximately 130 - 140°F and whole body dose levels of approximately 3 Rem/Hr. Plant personnel are prohibited from entering this area during plant power operation due to these conditions.

ALTERNATIVE  
TEST:

These valves will be mechanically exercised, verifying open and closure position, during cold shutdown periods in accordance with IWW-3522.



## TECHNICAL JUSTIFICATION TJV-14

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VALVE: SGT-CV-10CV, SGT-CV-14CV and SGT-CV-15CV

CLASS: 4

FUNCTION: SGT-CV-10CV - Open to provide flow path from secondary containment to filter train.

SGT-CV-14CV and SGT-CV-15CV - Open to provide flow paths from exhaust fans.

BASIS FOR  
TECHNICAL

JUSTIFICATION: The acceptance full flow rate for these valves is  $\geq 1602$  cfm. During plant power operations, system conditions exist that prevent the SGT system from achieving a flow rate of  $\geq 1602$  cfm. Reactor building differential pressure and back pressure from the Off Gas Dilution Fans act against SGT system pressure restricting SGT system flow rate. Therefore, it is impractical to perform a full flow rate test of these valves at power operations.

ALTERNATIVE  
TEST:

A partial open stroke test will be performed on these valves during plant power operations on a quarterly frequency. A full flow open test will be performed on these valves during cold shutdown periods.