Attachment 1

Millstone Nuclear Power Station, Unit No. 2

Proposed Revision to Technical Specifications Electrical Power Systems - DC Distribution Marked-up Pages

May 1994

D.C. DISTRIBUTION - OPERATING

LIMITING CONDITION FOR OPERATION

3.8.2.3 The following D.C. bus trains shall be energized and OPERABLE with at least one tie breaker between bus trains open:

TRAIN "A" consisting of 125-volt D.C. bus 201A, 125-volt D.C. battery bank 201A and C. full capacity charger.

TRAIN "B" consisting of 125-volt D.C. bus 2018, 125-volt D.C. battery bank 2018, and a full capacity charger.

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION:

- a. With one 125-volt D.C. bus inoperable, restore the inoperable bus to OPERABLE status within 2 hours or be in COLD SHUTDOWN within the next 36 hours.
- b. With a 125-volt D.C. battery and/or its charger inoperable, restore the inoperable battery and/or charger to OPERABLE status within 2 hours or be in COLD SHUTDOWN within the next 36 hours.

SURVEILLANCE REQUIREMENTS

4.8.2.3.1 Each D.C. bus train shall be determined OPERABLE and energized with at least one tie breaker open at least once per 7 days by verifying correct breaker alignment and indicated power availability.

4.8.2.3.2 Each 125-volt battery bank and charger shall be demonstrated OPERABLE:

- a. At least once per 7 days by verifying that:
 - The electrolyte level of each pilot cell is between the minimum and maximum level indication marks,

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SURVEILLANCE REQUIREMENTS (Continued)

- 2. The pilot cell specific gravity, corrected to $77^{\circ}F$, is ≥ 1.200 ,
- 3. The pilot cell voltage is > 2.08 volts, and
- 4. The overall battery voltage is > 125 volts.
- b. At least once per 92 days by verifying that:
 - 1. The voltage of each connected cell is \geq 2.08 volts under float charge, and
 - 2. The specific gravity, corrected to 77°F , of each cell is \geq 1.200.
- c. At least once per 18 months by verifying that:
 - The cells, cell plates and battery racks show no visual indication of physical damage or deterioration,
 - The cell-to-cell and terminal connections are clean, tight, free of corrosion and coated with anti-corrosion material, and
 - 3. The battery charger will supply at least 900 amperes at a minimum of 130 volts for at least 8 hours.
- d. At least once per 18 months, during shutdown, by verifying that the battery capacity is adequate to supply and maintain in OPERABLE status all of the actual emergency loads for 8 hours when the battery is subjected to a battery service test.
- e. At least once per 60 months, during shutdown, by verifying that the battery capacity is at least 80% of the manufacturer's rating when subjected to a performance discharge test. This performance discharge test may be performed in lieu of the battery service test.

at least 400 ampere changing capacity

ELECTRICAL POWER SYSTEMS

D.C. DISTRIBUTION - SHUTDOWN

LIMITING CONDITION FOR OPERATION

3.8.2.4 As a minimum, the following D.C. electrical equipment and bus shall be energized and OPERABLE:

1 - 125-volt D.C. bus, and

1 - 125-volt battery bank and charger supplying the above D.C. bus.

APPLICABILITY: MODES 5 and 6.

ACTION:

With less than the above complement of D.C. equipment and bus OPERABLE, establish CONTAINMENT INTEGRITY within 8 hours.

SURVEILLANCE REQUIREMENTS

- 4.8.2.4.1 The above required 125-volt D.C. bus shall be determined OPERABLE and energized at least once per 7 days by verifying correct breaker alignment and indicated power availability.
- 4.8.2.4.2 The above required 125-volt battery bank and charger shall be demonstrated OPERABLE per Surveillance Requirement 4.8.2.3.2.

Attachment 2

Millstone Nuclear Power Station, Unit No. 2

Proposed Revision to Technical Specifications Electrical Power Systems - DC Distribution Retyped Pages

D.C. DISTRIBUTION - OPERATING

LIMITING CONDITION FOR OPERATION

3.8.2.3 The following D.C. bus trains shall be energized and OPERABLE with at least one tie breaker between bus trains open:

TRAIN "A" consisting of 125-volt D.C. bus 201A, 125-volt D.C. battery bank 201A and at least 400 ampere charging capacity.

TRAIN "B" consisting of 125-volt D.C. bus 2018, 125-volt D.C. battery bank 2018, and at least 400 ampere charging capacity.

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION:

- a. With one 125-volt D.C. bus inoperable, restore the inoperable bus to OPERABLE status within 2 hours or be in COLD SHUTDOWN within the next 36 hours.
- b. With a 125-volt D.C. battery and/or its charger inoperable, restore the inoperable battery and/or charger to OPERABLE status within 2 hours or be in COLD SHUTDOWN within the next 36 hours.

SURVEILLANCE REQUIREMENTS

- 4.8.2.3.1 Each D.C. bus train shall be determined OPERABLE and energized with at least one tie breaker open at least once per 7 days by verifying correct breaker alignment and indicated power availability.
- 4.8.2.3.2 Each 125-volt battery bank and charger shall be demonstrated OPERABLE:
 - a. At least once per 7 days by verifying that:
 - The electrolyte level of each pilot cell is between the minimum and maximum level indication marks,

SURVEILLANCE REQUIREMENTS (Continued)

- 2. The pilot cell specific gravity, corrected to 77°F, is \geq 1.200,
- 3. The pilot cell voltage is ≥ 2.08 volts, and
- The overall battery voltage is ≥ 125 volts.
- b. At least once per 92 days by verifying that:
 - 1. The voltage of each connected cell is \geq 2.08 volts under float charge, and
 - 2. The specific gravity, corrected to 77°F, of each cell is \geq 1.200.
- c. At least once per 18 months by verifying that:
 - The cells, cell plates and battery racks show no visual indication of physical damage or deterioration,
 - The cell-to-cell and terminal connections are clean, tight, free of corrosion and coated with anti-corrosion material, and
 - The battery charger will supply at least 400 amperes at a minimum of 130 volts for at least 12 hours.
- d. At least once per 18 months, during shutdown, by verifying that the battery capacity is adequate to supply and maintain in OPERABLE status all of the actual emergency loads for 8 hours when the battery is subjected to a battery service test.
- e. At least once per 60 months, during shutdown, by verifying that the battery capacity is at least 80% of the manufacturer's rating when subjected to a performance discharge test. This performance discharge test may be performed in lieu of the battery service test.

D.C. DISTRIBUTION - SHUTDOWN

LIMITING CONDITION FOR OPERATION

- 3.8.2.4 As a minimum, the following D.C. electrical equipment and bus shall be energized and OPERABLE:
 - 1 125-volt D.C. bus, and
 - 1 125-volt battery bank and at least 400 ampere charging capacity supplying the above D.C. bus.

APPLICABILITY: MODES 5 and 6.

ACTION:

With less than the above complement of D.C. equipment and bus OPERABLE, establish CONTAINMENT INTEGRITY within 8 hours.

SURVEILLANCE REQUIREMENTS

- 4.8.2.4.1 The above required 125-volt D.C. bus shall be determined OPERABLE and energized at least once per 7 days by verifying correct breaker alignment and indicated power availability.
- 4.8.2.4.2 The above required 125-volt battery bank and charger shall be demonstrated OPERABLE per Surveillance Requirement 4.8.2.3.2.