

**DUKE POWER COMPANY**

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HAL B. TUCKER  
VICE PRESIDENT  
NUCLEAR PRODUCTION

June 25, 1984

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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, Unit 1  
Docket No. 50-413  
Draft Technical Specifications

Dear Mr. Denton:

Based on the telephone conversations between Mr. Jim Lazevnick, of your staff, and representatives of Duke Power Company, attached are our proposed changes to the Catawba Draft Technical Specifications concerning the diesel generator battery Surveillance Requirements.

Very truly yours,

*Hal B. Tucker*

Hal B. Tucker

RWO/rhs

Attachment

cc: Mr. James P. O'Reilly  
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U. S. Nuclear Regulatory Commission  
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NRC Resident Inspector  
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ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- h. At least once per 10 years or after any modifications which could affect diesel generator interdependence by starting both diesel generators simultaneously, during shutdown, and verifying that both diesel generators accelerate to at least ~~450~~ <sup>441</sup> rpm in less than or equal to 11 seconds; and
- i. At least once per 10 years by:
  - 1) Draining each fuel oil storage tank, removing the accumulated sediment and cleaning the tank using a sodium hypochlorite solution or its equivalent, and
  - 2) Performing a pressure test of those portions of the diesel fuel oil system designed to Section III, subsection ND of the ASME Code at a test pressure equal to 110% of the system design pressure.

4.8.1.1.3 Reports - All diesel generator failures, valid or non-valid, shall be reported in a Special Report to the Commission pursuant to Specification 6.9.2 within 30 days. Reports of diesel generator failures shall include the information recommended in Regulatory Position C.3.b of Regulatory Guide 1.108, Revision 1, August 1977. If the number of failures in the last 100 valid tests (on a per nuclear unit basis) is greater than or equal to 7, the report shall be supplemented to include the additional information recommended in Regulatory Position C.3.b of Regulatory Guide 1.108, Revision 1, August 1977.

4.8.1.1.4 Diesel Generator Batteries - Each diesel generator 125-volt battery bank and charger shall be demonstrated OPERABLE:

- a. At least once per 7 days by verifying that:
  - 1) The electrolyte level of each battery is <sup>at or</sup> above the ~~plates~~, and low mark and at or below the high mark
  - 2) The overall battery voltage is greater than or equal to 125 volts on float charge, and

- b. At least once per 92 days and within 7 days after a battery discharge with battery terminal voltage below 110 volts, or battery overcharge with battery terminal voltage above 150 volts, by verifying that:
  - 1) There is no visible corrosion at either terminals or connectors, ~~or the connection resistance of these items is less than  $(150) \times 10^{-6}$  ohm, and~~
  - 2) ~~The average electrolyte temperature of six connected cells is above 60°F.~~

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3) the individual cell voltage is greater than or equal to 1.36 volts on float charge.

\* Two different cells shall be tested each month. A maximum of two cells may be jumpered out at a time.

## SURVEILLANCE REQUIREMENTS (Continued)

The cell-to-cell pole screws  
torque setting is  $14.5 \pm 0.5$  ft-lbs  
and,

- c. At least once per 18 months by verifying that:
- 1) The batteries, cell plates and battery racks show no visual indication of physical damage or abnormal deterioration,
  - 2) The cell-to-cell and terminal connections are clean, tight, and free of corrosion, and ~~coated with anticorrosion material,~~
  - 3) ~~The resistance of each cell-to-cell and terminal connection is less than or equal to \_\_\_ ohm, and~~
  - 4) The battery charger will supply at least 75 amperes at a minimum of 125 volts for at least 8 hours, and
- d. ~~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.~~
- e. ~~At least once per 18 months, during shutdown, by giving performance discharge tests of battery capacity to any battery that shows signs of degradation or has reached 85% of the service life expected for the application. Degradation is indicated when the battery capacity drops more than 10% of rated capacity from its average on previous performance tests, or is below 90% of the manufacturer's rating.~~
- 5) The battery capacity is adequate to supply and maintain in OPERABLE status its emergency loads when subjected to a battery service test. The battery shall supply a current of greater than or equal to 171.6 amps for the first minute and a current of greater than or equal to 42.5 amps for the remaining 119 minutes, while maintaining a terminal voltage of greater than or equal to 105 volts.

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