

April 13, 1988

Docket Nos. 50-338
and 50-339

Mr. W. L. Stewart
Vice President - Nuclear Operations
Virginia Electric and Power Company
Post Office Box 26666
Richmond, Virginia 23261

Dear Mr. Stewart:

DISTRIBUTION
Docket File
NRC & Local PDRs
PD22 Rdg
SVarga
GLainas
DMiller
LEngle
OGC-WF
DHagan
EJordan
JPartlow

TBarnhart (8)
Wanda Jones
ACRS (10)
GPA/PA
ARM/LFMB
EButcher
Gray File
JSchiffgens

SUBJECT: NORTH ANNA UNITS 1 AND 2 - CORRECTION TO AMENDMENT NOS. 97 AND 84

On March 25, 1988, the Commission issued Amendment Nos. 97 and 84 to Facility Operating Licenses NPF-4 and NPF-7, respectively, for the North Anna Power Station, Units No. 1 and No. 2 (NA-1&2). The amendments modified the surveillance requirements for the emergency diesel generator and station batteries.

Due to an administrative error, page 3/4 8-14 for NA-2 did not incorporate a change that had been discussed between our staff and members of your staff prior to issuance of the amendments. Enclosed is the corrected page 3/4 8-14 for NA-2, as well as the corresponding overleaf page.

Please accept our apologies for any inconvenience this error may have caused.

Sincerely,

Original signed by

Leon B. Engle, Project Manager
Project Directorate II-2
Division of Reactor Projects I/II
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc w/enclosure:
See next page

LA:PD22
DMiller
4/1/88

PE:PD22
JSchiffgens
4/12/88

PM:PD22
LEngle
4/12/88

D:PD22
H Berkow
4/13/88

8804190080 880413
PDR ADDOCK 05000338
P PDR

ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- b. At least once per 92 days and within 7 days after a battery discharge where the battery terminal voltage decreased below 110 volts or battery overcharge above 150 volts, by verifying that:
 - 1. The parameters in Table 4.8-3 meet the Category B limits,
 - 2. There is no visible corrosion at either terminals or connectors, or the connection resistance of these items is less than 150×10^{-6} ohms, and
 - 3. Average electrolyte temperature of at least 10 connected cells is above 60°F.
- c. At least once per 18 months by verifying that:
 - 1. The cells, 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 coated with anti-corrosion material.
 - 3. The resistance of each cell-to-cell and terminal connection is less than or equal to 150×10^{-6} ohms.
 - 4. The battery charger will supply at least 200 amperes at 125 volts for at least 4 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 or simulated emergency loads for the design duty cycle 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. Once per 60 month interval, this discharge performance test may be performed in place of the battery service test.
- f. At least once per 18 months, during shutdown, perform a performance discharge test of battery capacity if the battery shows signs of degradation or has reached 85% of its service life expected for the application. Degradation is indicated when the battery capacity drops more than 10% of rated capacity from its average from previous performance discharge tests, or is below 90% of the manufacturer's rating.

BB04190087 BB0413
PDR ADDCK 0500033B
P PDR

TABLE 4.8-3

BATTERY SURVEILLANCE REQUIREMENTS

	CATEGORY A ⁽¹⁾	CATEGORY B ⁽²⁾	
Parameter	Limits for each designated pilot cell	Limits for each connected cell	Allowable ⁽³⁾ value for each connected cell
Electrolyte Level	>Minimum level indication mark, and $\leq 1/4$ " above maximum level indication mark	>Minimum level indication mark, and $\leq 1/4$ " above maximum level indication mark	Above top of plates, and not over-flowing
Float Voltage	≥ 2.13 volts	≥ 2.13 volts ^(c)	> 2.07 volts
Specific	≥ 1.200 ^(b)	≥ 1.195 Average of all connected cells > 1.205	Not more than .020 below the average of all connected cells Average of all connected cells ≥ 1.195 ^(b)

(a) Corrected for electrolyte temperature and level.

(b) Or battery charging current is less than 12 amps when on charge (station batteries only).

(c) For any cell with voltage below the limit and electrolyte temperature $> 3^{\circ}\text{F}$ from the average electrolyte temperature, correct the cell voltage for average electrolyte temperature.

(1) For any Category A parameters(s) outside the limit(s) shown, the battery may be considered OPERABLE provided that within 24 hours all the Category B measurements are taken and found to be within their allowable values, and provided all Category A and B parameter(s) are restored to within limits within the next 6 days.

(2) For any Category B parameter(s) outside the limit(s) shown, the battery may be considered OPERABLE provided that the Category B parameter(s) are within their allowable values and provided the Category B parameter(s) are restored to within limits within 7 days.

(3) Any Category B parameter not within its allowable value indicates an inoperable battery.

Mr. W. L. Stewart
Virginia Electric & Power Company

North Anna Power Station
Units 1 and 2

cc:

Mr. William C. Porter, Jr.
County Administrator
Louisa County
P.O. Box 160
Louisa, Virginia 23093

Atomic Safety and Licensing Appeal
Board Panel
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Michael W. Maupin, Esq.
Hunton and Williams
P. O. Box 1535
Richmond, Virginia 23212

Regional Administrator, Region II
U.S. Nuclear Regulatory Commission
101 Marietta Street N.W., Suite 2900
Atlanta, Georgia 30323

Mr. W. T. Lough
Virginia Corporation Commission
Division of Energy Regulation
P. O. Box 1197
Richmond, Virginia 23209

Mr. E. W. Harrell
P. O. Box 402
Mineral, Virginia 23117

Ellyn R. Weiss, Esq.
Harmon, Weiss and Jordan
2001 S Street NW
Washington, DC 20009

Old Dominion Electric Cooperative
c/o Executive Vice President
Innsbrook Corporate Center
4222 Cox Road, Suite 102
Glen Allen, Virginia 23060

Mr. J. T. Rhodes
Senior Vice President - Power Ops.
Virginia Electric and Power Co.
Post Office Box 26666
Richmond, Virginia 23261

James B. Kenley, M.D., Commissioner
Department of Health
109 Governor Street
Richmond, Virginia 23219

Mr. Patrick A. O'Hare
Office of the Attorney General
Supreme Court Building
101 North 8th Street
Richmond, Virginia 23219

Resident Inspector/North Anna
c/o U.S. NRC
Senior Resident Inspector
Route 2, Box 78
Mineral, Virginia 23117