

JUL 25 1983

DCS MS-016

MEMORANDUM FOR: Robert A. Clark, Chief
 Operating Reactor Branch #3
 Division of Licensing

FROM: Leon B. Engle, Project Manager
 Operating Reactors Branch #3
 Division of Licensing

SUBJECT: TRIP REPORT - SITE VISIT TO OBTAIN ADDITIONAL
 INFORMATION REGARDING RECURRING MAIN TRANSFORMER
 FAILURES (MTFs) AT THE NORTH ANNA POWER STATION
 (NAPS)

On July 14, 1983, the NRC and its consultant (Lawrence Livermore National Laboratory - LLNL) met at NAPS regarding the subject noted above. A list of attendees is provided in the Attachment.

The purpose of the site visit was two-fold: (1) to hold a general discussion with the VEPCO staff regarding the MTFs, and (2) a plant tour was made to acquaint LLNL with the physical plant layout with respect to MTFs.

General Meeting Highlights

- 0 LLNL presented a status update on the various tasks identified in the NRC statement of work.
- 0 LLNL presented a short summary on the present conclusions of its Probabilistic Risk Assessment (PRA) evaluation of the generator and transformer protection system. For the PRA analysis, it has been determined that the increase in frequency of MTFs and plant reactor trip does not degrade the plant protection system. Also, no modifications are warranted for the NAPS MTF protection system.
- 0 VEPCO reported that the investigation of the seventh failure (December 5, 1982) is complete (report to follow).
- 0 A question/answer period was held where NRC requested additional information from VEPCO regarding the MTFs.
- 0 VEPCO will contact GE and McGraw Edison representatives to help assist in obtaining operating and maintenance instructions for MTs.

Site Visit

- 0 Pictures were taken to provide LLNL orientation of the plant physical layout to assist in the Failure Mode and Effects Analysis (FMEA) for MT fires, missiles and oil-spills.
- 0 General familiarization was obtained by touring the transformer bay location and adjacent structures.

OFFICE				
SURNAME				
DATE				

- 0 A tour of the turbine building and control room location was conducted with respect to potential MT missiles.
- 0 A tour was made of the general area where reserve station service overhead lines have been relocated since the July 3, 1981 MT fires.
- 0 A Status update was made by VEPCO on any possible transformer bay modifications.

Conclusions:

A formal NRC request for information to VEPCO will be prepared based on the site visit and meeting discussions. A preliminary assessment following the tour determined that MTF missiles could have only insignificant effects on LLNL's PRA and FEMA reports. Oil spills and fires will be included and expanded on in the LLNL reports.

Original signed by

Leon B. Engle, Project Manager
Operating Reactors Branch #3
Division of Licensing

Attachment:
Attendance List

cc: See next page

OFFICE ▶	ORB#3:DL	ORB#3:DL	ORB#3:DL			
SURNAME ▶	PMKreutzer	LEngle/pn	RAClark			
DATE ▶	7/25/83	7/25/83	7/25/83			

MEETING SUMMARY DISTRIBUTION

Licensee: Virginia Electric and Power Company

*Copies also sent to those people on service (cc) list for subject plant(s).

✓ Docket File
NRC PDR
L PDR
NSIC
ORB#3 Rdg
ORB#3 Summary File
JHaltemes
BGrimes
RAClark
Project Manager
PMKreutzer
OELD
ELJordan
JMTaylor
ACRS-10
NRC Participants
JDonohue
SNewberry
MChiramal
JKnight
VBenaroya

Virginia Electric and Power Company

cc:

Richard M. Foster, Esq.
Musick, Williamson, Schwartz,
Leavenworth & Cope, P.C.
P. O. Box 4579
Boulder, Colorado 80306

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

Mr. Paul W. Purdom
Environmental Studies Institute
Drexel University
32nd and Chestnut Streets
Philadelphia, Pennsylvania 19104

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

Ellyn R. Weiss, Esq.
Sheldon, Harman, Roisman and Weiss
1725 I Street, N.W. Suite 506
Washington, D. C. 20006

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

Mr. Anthony Gambardella
Office of the Attorney General
11 South 12th Street - Room 308
Richmond, Virginia 23219

Resident Inspector/North Anna
c/o U.S.N.R.C.
Route 2, Box 78A
Mineral, Virginia 23117

Mr. J. H. Ferguson
Executive Vice President - Power
Virginia Electric and Power Company
Post Office Box 26666
Richmond, Virginia 23261

Mrs. Margaret Dietrich
Route 2, Box 568
Gordonsville, Virginia 22042

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

Mrs. June Allen
North Anna Environmental Coalition
8720 Lockmoor Circle
Wichita, Kansas 67207

U.S. Environmental Protection Agency
Region III Office
ATTN: Regional Radiation Representative
Curtis Building
6th and Walnut Streets
Philadelphia, Pennsylvania 19106

Regional Administrator
Nuclear Regulatory Commission, Region II
Office of Executive Director for Operations
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

ATTACHMENT

North Anna Power Station

Site Visit

July 14, 1983

Attendance List

NRC

L. B. Engle

LLNL

J. W. Savage

J. C. Selan

K. J. Dalton (EG&G)

VEPCO

J. Leberstien

R. E. Nicholls

R. W. Brooks

N. G. Vidonic

E. W. Harrel

W. R. Cartwright

O. Compton

W. Bugg

H. Suttan

K. S. Berger

C. G. Chewing

J. M. Mosticane

D. E. Thomas

J. R. Harper