



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

JUL 30 1984

Docket No.: 50-410

APPLICANT: Niagara Mohawk Power Corporation (NMPC)
FACILITY: Nine Mile Point Nuclear Station, Unit 2
SUBJECT: SUMMARY OF MEETING WITH NIAGARA MOHAWK POWER CORPORATION (NMPC)
ON OPEN ITEMS FROM THE DRAFT SER

On March 20, 21 and 22, 1984, the NRC staff met with representatives from Niagara Mohawk Power Corporation in Bethesda, Maryland to discuss open items from the draft SER. Enclosure 1 contains a list of the open items that were discussed.

Hydrology

Open Item (5), protection of the main stack from wave forces from PMWS, was discussed. This protection need only be considered if the main stack has a safety-related function such as being considered in analysis of releases and conformance to 10 CFR 100 guidelines. Failure of the main stack does not appear to jeopardize other safety-related structures or equipment.

Open Item (6), adequacy of ultimate heat sink. the limiting ultimate heat sink (UHS) of 77°F may be too low for uninterrupted operation. This number would be used in determining a technical specification (T.S.) condition. NMPC should reevaluate this temperature as a design basis temperature. In addition NMPC should identify if this is a surface or depth temperature.

Auxiliary Systems

Open Item (82) protection against hydrogen accumulation in the battery rooms. Information on the fans in the battery rooms is contained in FSAR Appendix 9A. Lights on the control room panel indicate the start of the second fan.

Open Item (81) design capability of CB HVAC.

(a) Response to F410.42 on chlorine detection. Draft SER section 2.2.2 evaluates the hazards from chlorine and determines there is no significant chlorine hazard at the NMP-2 site. Therefore the review of the chlorine detectors is not necessary.

(b) Response to F410.43 on the Spent Fuel Pool Area Ventilation System. The NRC staff will review information submitted in the FSAR sections 9.4 and 6.5.1.

Open Item (84)b, tornado missile protection for diesel generator louvers (F410.1). Figure 1.2-16 in the FSAR shows the design of the concrete barrier to protect ventilation openings in buildings housing safety related equipment. The NRC staff will review this design.

8408080164 840730
PDR ADDCK 05000410
E PDR

Open Item (86), diesel generator building HVAC system conformance to GDC 4 is the same as Item (85) above.

Open Item (61), pipe break in the BWR scram system (F410.16). Response to generic letter, May 5, 1981 NMPC is to provide additional information on levels, separations and water tightness in the FSAR. The design as described during the meeting may be sufficient.

Open Item (20)

(a) tornado missile protection for diesel generator exhaust outside & air intakes for HVAC systems same as (84) above.

(b) safety related buried piping. NMPC to provide locations of and description of provisions taken to protect safety-related buried piping/ductwork. The location of non safety-related buried piping are to be included. NMPC was not aware of any safety-related buried piping, but the safety-related buried HPCS ductbank was discussed.

Open Item (21), effects of postulated pipe breaks. Additional information in response to F410.15 is to be provided by NMPC.

Open Item (73), light load handling system. Additional information is to be provided by NMPC.

Open Item (74), heavy loads. Additional information is to be provided by NMPC.

Open Item (80), protection of safety-related equipment against flooding. NRC staff to further review information submitted in the FSAR with respect to this issue.

Chemical Engineering

Open Item (79), post accident sampling (II.B.3). NMPC will incorporate core damage information into the FSAR. Unit 2 should have the same EPP for post accident sampling as Unit 1. NMPC may be able to submit this EPP in advance of other EPP's as this should be the same as Unit 1.

Fire Protection

Open Item (88), potential systems interaction. NMPC should review each area of concern to determine whether mechanisms by which fire and fire fighting systems may cause the simultaneous failure of redundant or diverse trains have been adequately considered in the design. NMPC should document the results of the review of each area in the FSAR.

Open Item (89), administrative controls (fire protection). NMPC should verify in the FSAR that the administrative controls for fire protection meet BTP CMEB 9.5-1.

Open Item (90), fire brigade and fire brigade training. NMPC should verify in FSAR section 9.5.1 that the fire brigade, including equipment and training, meets the guidelines contained in BTP CMEB 9.5-1, Section C.3

Open Item (91), qualification of fire doors. All fire door assemblies at Nine Mile Point 2 should be tested and labeled in accordance with the National Fire Protection Association (NFPA) 252, "Fire Tests of Door Assemblies"

Open Item (92), floor drains. NMPC should revise the FSAR to verify that floor drains are adequately sized to remove expected fire fighting water without flooding safety-related equipment.

Open Item (95), emergency lighting. NMPC will revise the FSAR to include a statement that required lighting will be provided. Levels of illumination should also be provided.

Open Item (97), qualification of electric fire pump. NMPC should provide a comparison between UL listed and installed fire pump controller. NMPC should also show this is a fire pump, not a nuclear pump.

Open Item (98), valve supervision, NMPC should commit to NFP-26.

Materials Engineering

Open Items (63) P-T (pressure-temperature curves), P-T curves are to be provided as discussed in Section 5.3.2 and 5.3.3 of the draft SER.

Open Items (62), lead factors in surveillance capsules, and (64), ratio of neutron flux density of specimens in the surveillance capsule to peak neutron flux density at RPV, are the same items.

Effluent Treatment

Open Item (68) exceptions and deviations to R.G.1.52, rev. 2. Flow recorders should be provided in the control room. NMPC should either provide these or provide justification for not having them. NMPC will check if flow recorders are to be installed. The flow recorders would also facilitate periodic testing of filters.

Procedures and System Review (Procedures)

The responses to the requests for additional information (RAI's) were discussed as follows,

RAI

- 640.06 Abstract 43 should be revised to specifically indicate the loss-of-air-supply tests conducted to RG 1.68.3
- 640.07 NRC staff and consultants are reviewing response submitted in Amendment 8. Response may be acceptable.
- 640.08 Part 2 - the exception of RG1.108 should be deleted and NMPC should commit to a 69 start test parts 3&4 - NRC staff and consultants to review response in Amendment 8.

- 640.09 Revision to FSAR or response to 640.09 is necessary as discussed in draft SER.
- 640.10 & 640.11 NRC staff and consultants are reviewing response submitted in Amendment 8.
- 640.12 NRC staff and consultants are reviewing the response submitted in Amendment 8. The response appears sufficient.
- 640.13 Response to be submitted in Amendment 9.
- 640.14 NRC staff and consultants are reviewing the response submitted in Amendment 8. The response appears sufficient.
- 640.15 Duplicate test abstract was deleted.
- 640.16 NRC staff and consultants requested the modes be clearly numbered.
- 640.18 Draft SER 2.2.2 evaluated the hazards from transportation routes and nearby facilities at the NMP-2 site. The results of that review did not identify toxic substances which would be a hazard to NMP-2. Therefore testing of the control building HVAC system for protection against toxic substances may not be necessary.
- 640.19 NRC staff and consultants are reviewing the response submitted in Amendment 8. The response appears sufficient.
- 640.20 NRC staff and consultants are reviewing the response submitted in Amendment 8.

Geotechnical

Open Item (16), update of slope inclinometer and rock extensometer data, the slope inclinometer and rock extensometer data should be updated and through September, 1984. The NRC staff will review the data submitted through Amendment 6 for the level of detail provided.

Open Item (17), dynamic stability of the slopes of the revetment ditch, additional information on this issue may be forthcoming in Amendment 9. The information to be provided should include a description of the analysis and the results.

Procedures and Systems Review (Systems)

Open Item (133), evaluation and development of procedures for transients (I.C.1), this issue is to remain open at present. Procedures should be available prior to the SER.

Other Issues

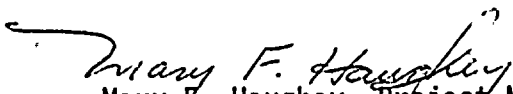
In addition to the open items from the Draft SER, outstanding information concerning the reactor systems area were discussed. These areas would

remain as open items in the draft SER as the information has not yet been submitted on the Nine Mile Point 2 docket.

Qualification testing for the diesel generators was also discussed. Additional information to be submitted concerning the similarity of the diesel generators to qualified diesel generators and testing to be performed was discussed. This additional information for the standby diesel generators should include:

- 1) the fact that the engines on the standby diesel generator are identical to already qualified diesel generators;
 - 2) commitment to a qualification test of the generator;
 - 3) description of pre-operational testing to be performed.
- Additional information needed for the HPCS diesel generator was also identified.

Enclosure 2 contains a list of meeting attendees who were involved in all or part of the three day meeting.


Mary F. Haughey, Project Manager
Licensing Branch No. 2
Division of Licensing

Enclosures: As stated

cc: See next page

Nine Mile Point 2

Mr. B. G. Hooten
Executive Director, Nuclear Operations
Niagara Mohawk Power Corporation
300 Erie Boulevard West
Syracuse, New York 13202

cc: Mr. Troy B. Conner, Jr., Esq.
Conner & Wetterhahn
Suite 1050
1747 Pennsylvania Avenue, N.W.
Washington, D.C. 20006

Richard Goldsmith
Syracuse University
College of Law
E. I. White Hall Campus
Syracuse, New York 12223

Ezra I. Bialik
Assistant Attorney General
Environmental Protection Bureau
New York State Department of Law
2 World Trade Center
New York, New York 10047

Resident Inspector
Nine Mile Point Nuclear Power Station
P. O. Box 99
Lycoming, New York 13093

Mr. John W. Keib, Esq.
Niagara Mohawk Power Corporation
300 Erie Boulevard West
Syracuse, New York 13202

Jay M. Gutierrez, Esq.
U. S. Nuclear Regulatory Commission
Region I
631 Park Avenue
King of Prussia, Pennsylvania 19406

Norman Rademacher,
Licensing
Niagara Mohawk Power Corporation
300 Erie Boulevard West
Syracuse, New York 13202

Open Items Discussed from Draft SER

- (5) protection of the main stack from wave forces
- (6) adequacy of ultimate heat sink
- (82) protection against hydrogen accumulation in the battery rooms
- (81) design capability of CB HVAC
- (84) spent fuel pool ventilation
- (85) tornado missile protection for diesel generator building louvers
- (86) diesel generator building HVAC system conformance to GDC 4
- (61) pipe break in the BWR scram system
- (20) a) adequacy of tornado missile protection for diesel generator exhaust outside air intakes for HVAC system
- b) buried piping
- (21) effects of postulated pipe breaks
- (73) light load handling system
- (74) heavy loads
- (80) drainage of water away from safety-related components or system
- (79) post accident sampling (II.B.3)
- (88) potential systems interaction
- (89) administrative controls
- (90) fire brigade and fire brigade training
- (91) qualification of fire doors
- (92) floor drains
- (95) emergency lighting
- (97) qualification of the electric fire pump
- (98) valve supervision
- (63) P-T (pressure-temperature) curves
- (62) lead factors in surveillance
- (64) ratio of neutron flux density of specimens in the surveillance capsule to peak neutron flux density at RPV.
- (68) exceptions and deviations to R.G.1.52, Rev. 2
- (140) preoperational test abstracts
- (136) loss-of-air-supply tests
- (137) single-failure-proof cranes
- (148) periodic testing of diesel generators
- (139) applicability of RG 1.140 to radwast building exhaust
- (16) update of slope inclinometer and rock extensometer data
- (17) dynamic stability of the slopes of the revetment ditch.
- (133) evaluation and development of procedures for transient (I.C.1)

ATTENDEES

NMPC

Norm Rademacher

NRC

Mary Haughey
Rex Wescott
Amarjit Singh
Frank Witt
John Stang
Barry Elliot
Jay Lee
William Long
Dick Becker
Banad Jagganath
Fred Liederbach
Ed Tomlinson
Kulin Desai

PNL

Robert Gruel

remain as open items in the draft SER as the information has not yet been submitted on the Nine Mile Point 2 docket.

Qualification testing for the diesel generators was also discussed. Additional information to be submitted concerning the similarity of the diesel generators to qualified diesel generators and testing to be performed was discussed. This additional information for the standby diesel generators should include:

- 1) the fact that the engines on the standby diesel generator are identical to already qualified diesel generators;
 - 2) commitment to a qualification test of the generator;
 - 3) description of pre-operational testing to be performed.
- Additional information needed for the HPCS diesel generator was also identified.

Enclosure 2 contains a list of meeting attendees who were involved in all or part of the three day meeting.

Mary F. Haughey, Project Manager
Licensing Branch No. 2
Division of Licensing

Enclosures: As stated

DISTRIBUTION

Docket File

NRC PDR

PRC System

LB#2 Reading

OELD

ASchwencer

MHaughey

EHylton

NRC Participants

Mary Haughey

Rex Wescott

Amayit Singh

Frank Witt

John Stang

Barry Elliot

Jay Lee

William Long

Dick Becker

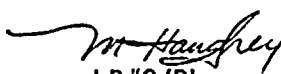
Banad Jagganath

Fred Liederbach

Jim Lazernick

Ed Tomlinson

Kulin Desai


LB#2/DL

MHaughey:dh

07/30/84

LB#2/DL

ASchwencer

07/30/84

