OCT 28 1976

DOCKET NO: 50-410

APPLICANT: Niagara Mohawk Power Corporation

FACILITY: Nine Mile Point Nuclear Station, Unit 2 (NMP-2)

SUMMARY OF MEETING HELD ON OCTOBER 8, 1976 TO DISCUSS THE NINE MILE POINT NUCLEAR STATION, UNIT 2 REVETMENT-DITCH DESIGN

On October 8, 1976, representatives of the Niagara Mohawk Power Corporation (NMPC) and their architect-engineer (Stone & Webster Engineering Corporation) met with representatives of the NRC staff to discuss the NMP-2 revetment-ditch design. The purpose of the meeting was to review the NMPC responses to the NRC staff's requests for additional information and to update the status of the revetment-ditch model testing. The discussion included areas of interest to the Hydrology-Meteorology Branch of the NRC staff. A list of those persons who attended the meeting is included as Attachment A to this report. Significant points are discussed below.

1.0 NMPC Presentation

1.1 Model Testing

NMPC gave a summary of the model testing results to date. Of particular relevance are the stability test results. Failures occurred for both the stone-faced and concrete armor unit faced revetment designs which were subjected to stability testing. Alternate designs were also tested with somewhat more success. NMPC suggested that the most advantageous time for staff representatives to witness the tests would be the latter part of the week of 10/18/76 or the first part of the week of 10/25/76 based on present estimates. It would be during this period that stability and response testing would be occurring. It was agreed that NMPC would keep the staff advised of any changes to this anticipated testing schedule.

1.2 Schedule

NMPC described the key events remaining in the revetment-ditch design schedule and the expected completion date as follows:

1. Completion of testing - 10/22/76
2. Completion of model study report - 12/10/76
3. Final report to NRC staff - 2/18/77
4. Final approval from NRC staff - 4/15/77
5. Finalize design and request bids - 6/1/77
6. Contract award - 12/15/77
7. Start dike construction - 4/1/78

1.3 Responses to Staff Requests for Additional Information

One of the staff's concerns dealt in the area of potential clogging of the revetment since NMPC was now taking credit for the permeability of the structure in dissipating wave energy. NMPC presented data which showed that overburden material starts several hundred feet offshore and was not a potential source of concern. However, the staff suggested that NMPC look in the area of the dike on Nine Mile Point, Unit 1 as well to determine if there is any potential source of littoral material. The staff agreed that if such materials are fine enough that they would not cause clogging.

NMPC also reviewed the staff requests associated with establishing the peak water level for the lake. As a result the staff noted that little had been presented to resolve the staff's two main concerns with the NMPC analysis. These deal with whether NMPC has in fact selected the most conservative storm track and whether the grid size used in the mathematical model is fine enough to conservatively predict the water depth near shore. The staff suggested that before any more effort was invested by NMPC in these areas that some discussions be held with the staff beforehand.

2.0 Summary and Conclusions

As a result of the meeting the following major conclusions were reached by the staff:

1. A staff visit to witness response and stability testing should be scheduled the latter part of October 1976 to be more precisely defined by NMPC.

2. The NMPC approach to the staff's request on clogging of the revetment structure should consider the size and disposition of the available material.

3. Significant work remains to be performed by NMPC in establishing a design still water level less than the staff position of 254 msl and that some interaction with the staff is recommended before any additional work is performed in generating a storm track or in selecting a grid size for use in the analytical model used by NMPC for predicting water level.

/s/

W. F. Kane, Project Management
Light Water Reactors
Branch No. 4
Division of Project Management

OFFICE	DPM/LWR #4	DPM/LWR #4				
SURNAME	WKane;pv	SAVarga				
DATE	10/27 /76	10/28 /76				

ATTACHMENT A

LIST OF ATTENDEES

NRC Staff

M. Fliegel
E. Hawkins
R. Jachowski (Consultant, Coastal Engineering Research Center)
T. Johnson
W. Kane
T. Nitta

Niagara Mohawk Power Corporation

S. Manno
N. Rademacher

Stone & Webster Engineering Corporation

R. Borjeson
Y. Chang
L. Hirst

MEETING SUMMARY

DISTRIBUTION

Docket File
~~NRC PDR~~
Local PDR
TIC
NRR Reading (M. Groff)
LWR #4 File
B. Rusche
E. Case
R. Boyd
R. C. DeYoung
R. Denise
D. Skovholt
J. Stolz
K. Kniel
O. Parr
S. Varga
D. B. Vassallo
R. Clark
T. Speis
R. Collins
C. Heltemes
R. Houston
L. Crocker
J. Miller
F. J. Williams
R. Heineman
H. Denton
Project Manager - W. Kane
Attorney, OELD
IE (3)
M. Service
ACRS (16)
Applicant & Service List

R. Maccary
D. Ross
R. Tedesco
J. Knight
S. Pawlicki
I. Sihweil
P. Check
T. Novak
Z. Rosztoczy
V. Benaroya
G. Lainas
T. Ippolito
V. Moore
R. Vollmer
M. Ernst
W. Gammill
G. Knighton
B. Youngblood
W. Regan
D. Bunch
J. Collins
W. Kreger
R. Ballard
M. Spangler
J. Stepp
L. Hulman
H. Smith
V. Stello
Log File

M. Fliegel
E. Hawkins

T. Johnson
W. Kane
T. Nitta