



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION III  
799 ROOSEVELT ROAD  
GLEN ELLYN, ILLINOIS 60137

JUL 27 1983

MEMORANDUM FOR: R. F. Warnick, Director, Office of Special Cases  
FROM: J. J. Harrison, Chief, Section 2, Midland  
SUBJECT: MIDLAND CONSTRUCTION COMPLETION PROGRAM

The Midland Section has reviewed the licensee's June 10, 1983 submittal of the Midland Construction Completion Program (CCP). We have the following comments:

A. Comments on Construction Completion Program

1. Page 2 - Description

As stated in the CCP, phase 1 implementation will be on an area-by-area basis, but will be accomplished mainly by teams organized with systems responsibility. Our concern deals with the interface between the area-by-area basis and the systems basis. We should require assurance that all parts of the plant are covered during phase 1.

2. Page 3

In describing the major components of the CCP, the licensee did not describe the NRC Hold Points to be observed prior to initiating phase 1 and phase 2 activities.

3. Page 4

As stated in the CCP, the major areas of continuing safety-related work outside the CCP includes post-turnover punch list work. We should require the licensee to provide assurance that these post-turnover punch list activities are minor and not major.

4. Page 7

As stated in the CCP, during phase 2 implementation the assigned team will plan and carry out the remaining work needed for completion including QC inspections. We should require the licensee to clarify the teams' involvement in QC inspection activities.

5. Page 8

In describing the limitation to work on Q-Systems, the CCP states that this limitation permits important work to proceed outside of the CCP. Our concern deals with the measures the licensee would take to prevent nonconforming items from being covered up.

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6. Figure 1-1

The CCP schematic does not identify the NRC Hold Points.

7. Page 11 - Section 3.1

As stated in the CCP, MPQAD was expanded to assume direct control of QC except ASME. We view the boundaries of MPQAD control to be between "N" stamp activities and non-"N" stamp activities and should require the licensee to clarify this matter.

8. Page 11 - Section 3.2.1

We should require the licensee to clarify the statement concerning direct CCo controls over QC.

9. Page 12 - Section 3.3.5

As stated in the CCP, MPQAD will continue to use Bechtel's Quality Control Notices Manual (QCNM) and Quality Assurance Manual (BQAM). We should require clarification as to the reason for not using the Consumers QA manual. We also should require the licensee to assure that the Bechtel and Consumers manuals are in agreement.

10. Page 13 - Paragraph 2

We should require that the licensee provide documentation regarding future PQCI revision and the requirement for a pilot run.

11. Page 13 - Paragraph 3.B

We should require the licensee to document their basis for determining the need for retraining when PQCI's are revised.

12. Page 17

We should require the licensee to document their basis for determining the need to reinspect the work inspected by QC inspectors who fail recertification exams.

13. Page 19

As stated in the CCP, the scope of team work activities includes the requirements to insure early identification and resolution of problem areas. In view of the fact that phase 1 allows only the identification (and not the resolution) of problems, we should require the licensee to clarify this statement.

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14. Page 20

As stated in the CCP, tool box training sessions will be conducted at least monthly. We should require the licensee to address the adequacy of the tool box training sessions and the manner in which the sessions will be documented.

15. Page 27 - Section 5.3.1

We should require the licensee to define the term project management and site management.

16. Page 28 - Section 5.3.2

We should require the licensee to clarify the extent of the phase 2 management reviews.

17. Page 29

We should require the licensee to clarify the extent of Stone and Webster audits of phase 1 and phase 2 management reviews.

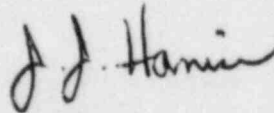
18. Page 34 - Section 9.2

The second sentence needs to be rewritten due to obvious miswording.

B. Quality Verification Program

1. Page 1 - Section 2

We should require the licensee to clarify the scope of the Quality Verification Program (QVP) in regards to the implementation of IPIN's in Soils, HVAC, and B&W work activities. We also should require the licensee to clarify the reinspection requirements for partially closed IR's.



J. J. Harrison, Chief  
Section 2, Midland



August 3, 1983

Docket Nos: 50-329  
and 50-330

MEMORANDUM FOR: James G. Keppler, Regional Administrator,  
Region III

FROM: Darrell G. Eisenhut, Director  
Division of Licensing, NRR

SUBJECT: NRR COMMENTS ON MIDLAND CONSTRUCTION  
COMPLETION PLAN

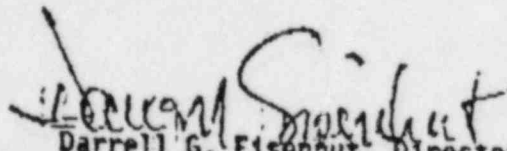
In response to your memorandum of June 23, 1983, Enclosure 1 provides NRR's comments on the Midland Construction Completion Program (CCP) submittal of June 10, 1983.

We understand that NRR and I&E comments will be combined with any Region III comments since March 28, 1983, and an NRC package of comments will be issued to CPCo. This will be followed by a public meeting which will be held prior to final NRC approval. CPCo will also be required to update the CCP to reflect NRC comments prior to final NRC approval.

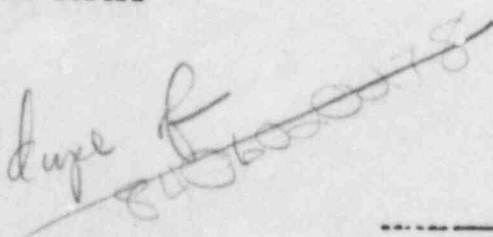
We have reviewed I&E's comments provided to R. Warnick on July 8, 1983, and consider them to be appropriate. In fact, two NRR comments in Enclosure 1 (Comments 10 and 12) correspond to similar comments made by I&E.

We have also reviewed the Stone & Webster documents dated April 1, April 11, and May 19, 1983, for Stone & Webster's acceptability as a third party reviewer of the CCP. We conclude that Stone & Webster is appropriately independent and qualified. Earlier concerns about the qualifications of two individuals on the Stone & Webster team have been resolved through the provision of missing pages from one of the submittals.

Should you have questions regarding Enclosure 1, contact Licensing Branch No. 4.

  
Darrell G. Eisenhut, Director  
Division of Licensing  
Office of Nuclear Reactor Regulation

Enclosure:  
As stated



Comments on Construction Completion Program  
(J. W. Cook letter to J. Keppler dated June 10, 1963)

Page 4 - Last paragraph

This section notes that CPCo intends to schedule periodic reviews of Program status and progress with the NRC. Such meetings should be noticed and members of the public and interested parties should be provided the opportunity to attend as observers.

Page 17 - Second paragraph

Who will determine the need and extent for reinspection of the past work of an inspector failing any part of the recertification process? What criteria are used for these decisions? What information is provided to RII to justify the decision?

Page 21 - Section 4.3.2.b.

Although not quantified, it would appear that a significant portion of the CCP will be involved with verification of acceptability of inaccessible attributes. This is predominately a paper work review, but "if required" will be supplemented by NDE techniques and destructive examination. Define "if required". In view of past documentation problems and the extent of inaccessible items, the CCP should include some NDE of inaccessible items on a sampling basis.

NRR further suggests that RIII consider auditing/supplementing the Applicant's NDE conclusions with its own findings based on use of the NRC's NDE mobile van.

Pages 24 - 25, Section 4.5.4

The last two paragraphs of Section 4.5.4 provides for installation of specific items on systems "critical" to the turnover schedule prior to full release of an area for Phase 2 work. Until the NRC has determined its own construction completion schedule for the Midland Plant, agreement as to which items are truly "critical" to the schedule is unlikely. The applicant's current construction completion schedule is such that most items would be deemed by CPCo to be "critical". The NRC should indicate that its acceptance of these two paragraphs is deferred to a later date, and that such installation should not be authorized on the interim without explicit prior NRC approval.



Page 28 - Section 5.3.2

The first management review for Phase 2 work release is proposed to be done by the management team, whereas subsequent status assessment results will be released by site management. Some intermediate review by the original management team should also be included for a subsequent status assessment. This subsequent review could be randomly selected and limited in extent, but would provide a check on possible program degradation or changes.

Also, the composition of "site management" should be defined.

Page 32 - First paragraph

Where is the protocol for communications between the parties for the soils remedial activities identified, and why should the protocol for the CIO be the same? By separate correspondence, NRR is addressing its view that improvements in the opportunities for public observation and participation in third-party reviews should be implemented. (Similarly, the monthly reports to be provided the NRC and S&W per Section 7.3.3 of the Quality Verification Program should be provided to the Board and hearing Parties.)

Page 32 - Third paragraph

One exception of the CIO scope while in residence is identified. Will the overview of site construction activities include systems excluded from the CCP, or is this an additional exception?

Page 32 - Fourth paragraph

Justification for the size of the S&W staff for the CIO should be provided. What criteria was used, and by whom, to establish the proposed number of S&W personnel? What restrictions and lead times would exist in the event S&W should identify the need to increase its staffing levels?

Page 34 - Section 9.3.1

Item 1 under Section 9.3 excludes NSSS installation by S&W as part of the CCP. Staff acceptance of this exclusion has been noted in the hearing to depend upon results of a future NRC audit of S&W work areas. Staff acceptance of this item should be acknowledged to be conditional. In the interim, the basis for CPCo's decision should be provided for NRC review.

Page 35 - First paragraph

The spatial systems interaction (SSI) is proposed to be overviewed by the CIO reviewer, S&W. As indicated at an April 13, 1983, meeting, the staff understands TERA will audit portions of the Systems Interactions activities applicable to three systems. CPOO should verify that both are still involved. To what extent, if any, will S&W overview the SSI for the three systems in the TERA scope?

Envelope Nos: 50-329 OM, DL  
and 50-330 OM, DL

MEMORANDUM FOR: James G. Keppler, Regional Administrator,  
Region III

FROM: Darrell G. Eisenhut, Director  
Division of Licensing, NRR

SUBJECT: NRR COMMENTS ON MIDLAND CONSTRUCTION  
COMPLETION PROGRAM

As requested in your memo of June 23, 1983, NRR has reviewed Consumers Power Company's Construction Completion Program (CCP) dated June 10, 1983. Our comments follow:

1. Page 2 of the CCP asserts that "Safety-related systems and areas of the plant will be systematically reviewed." The document does not indicate how CPCo defines or identifies safety-related systems.
2. The top of page 35 identifies a "separate organization" to carry out a spatial system interactions (SSI) review which responds to the generic licensing issue of "important to safety" that is being handled outside of the CCP with NRC/NRR. It is not clear how an SSI would enable identification of all systems important to safety. Also, should not the CCP include all systems "important to safety" (as presently defined in H. Denton's memo to All NRR Personnel dated November 20, 1981) and not just safety-related systems?
3. The scope of the CCP is not clear. The statement in the first paragraph of the Executive Summary, which included "all systems" in the scope, appears to conflict with both the penultimate paragraph on page 4 and the Description section 9.3 on page 34.
4. The relationship of the Quality Verification Program (Appendix 1) to the CCP is also not clear.

We have also reviewed the Stone & Webster documents dated April 1, April 11, and May 19, 1983, for Stone & Webster's acceptability as a third party reviewer of Consumers' CCP. We conclude that Stone & Webster is appropriately independent and qualified, with the exception of two individuals, to perform this function. The two individuals excepted in qualifications are Messrs. J. P. Chawla and S. W. Baranow whose experience records were not included in any of the transmittals. The credentials of both should be reviewed by the NRC before approval is given for their inclusion on the inspection team. Additionally, we recommend that provisions be made for the NRC to review the experience records of all personnel added to the Stone & Webster team in the future.



We would like to arrange a meeting between Region III, NRR and I&E to discuss the acceptability or unacceptability of the CCP in view of NRC comments. This meeting would precede a public meeting in Midland to obtain public comments before a finalized NRC position is developed.

Darrell G. Eisenhut, Director  
Division of Licensing  
Office of Nuclear Reactor Regulation

cc: W. Johnston            W. Houston  
     J. P. Knight         D. Muller  
     F. Rowsome           J. Taylor  
     L. Rubenstein        D. Ziemann



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

*John J. Van...  
R III*

NOTE TO: Elinor G. Adensam  
FROM: Darl S. Hood  
SUBJECT: COMMENTS ON MIDLAND CONSTRUCTION  
COMPLETION PROGRAM

Enclosure 1 provides my comments on the Construction Completion Program (CCP) as described by Consumers Power Company (CPCo) on June 10, 1983.

I have also reviewed the comments in James Taylor's memorandum to R. Warrick of July 8, 1983. Two of the comments correspond to similar points in Enclosure 1 (i.e., the need for justification of (1) the size of the Stone & Webster team to overview the CCP, and (2) exclusion of B&W work from the CCP). While I agree that the other comments in Taylor's memorandum are valid requests for further information or clarifications, they are not of sufficient significance to warrant dual NRR/IE endorsement like these two items.

Darl S. Hood, Project Manager  
Licensing Branch No. 4  
Division of Licensing

Enclosure:  
As stated

PUBLIC MEETING

MIDLAND NUCLEAR POWER PLANT

BY

J. J. HARRISON

*NRCD*

AUGUST 11, 1983

### REASON FOR CCP

A LONG HISTORY OF QA PROBLEMS OVER THE YEARS AT THE MIDLAND PLANT CULMINATED BY THE DIESEL GENERATOR BUILDING INSPECTION IN 1982. THE DGB INSPECTION IDENTIFIED MULTIPLE EXAMPLES OF NONCOMPLIANCES AND RESULTED IN A \$120,000 CIVIL PENALTY. CONSUMERS POWER COMPANY, SUBSEQUENT TO THIS INSPECTION, FOUND SIMILAR PROBLEMS IN OTHER PARTS OF THE PLANT.

### ACTION REQUIRED BY NRC

AS A RESULT OF THE MANY QUALITY ASSURANCE PROBLEMS IDENTIFIED IN THE PAST AND THE FAILURE OF CONSUMERS POWER COMPANY TO EFFECTIVELY CORRECT THE DEFICIENCIES, THE NRC REQUESTED A PROGRAM BE DEvised TO TAKE A BACKWARD LOOK AT THE CONSTRUCTED AND INSPECTED PORTION OF THE PLANT TO ASSURE IT IS PROPER AND WHICH ASSURED THAT QA WOULD BE EFFECTIVELY IMPLEMENTED FOR THE REMAINING WORK AT THE PLANT.

### CONSTRUCTION COMPLETION PROGRAM (CCP)

THE CONSTRUCTION COMPLETION PROGRAM (CCP) WAS PROPOSED BY CONSUMERS POWER COMPANY IN JANUARY, 1983, TO ACCOMPLISH THE REQUIRED ACTION. THIS PROGRAM WAS REVIEWED WITH THE NRC AT A MEETING OPEN TO THE PUBLIC HERE IN MIDLAND ON FEBRUARY 8, 1983. DURING THE RECENT MONTHS THE NRC HAS BEEN REVIEWING THE CONSUMERS

MAJOR ELEMENTS OF THE CCP

1. QA/QC REORGANIZATION
2. REVISE PQCI'S
3. GENERAL TRAINING OF FIELD ENGINEERS/CRAFT
4. TRAINING AND RECERTIFICATION OF BECHTEL QC INSPECTORS
5. CCP TEAM TRAINING
6. 100% REINSPECTION OF BECHTEL WORK
7. STATUS ASSESSMENT OF COMPLETED AND "TO GO" WORK
8. SATISFACTORY COMPLETION OF THE PLANT



POWER COMPANY CCP SUBMITTALS AND ATTEMPTING TO SHAPE THE CCP INTO AN ACCEPTABLE FINAL PROGRAM. PART OF THIS REVIEW HAS BEEN TO RECOGNIZE THE COMMENTS MADE BY MEMBERS OF THE PUBLIC AND THE INTERVENORS. WE ARE NOW CLOSE TO A PROGRAM WE ARE HAPPY WITH. THIS AFTERNOON WE MET WITH THE INTERVENORS AND GAP TO MAKE SURE WE FULLY UNDERSTOOD THEIR CONCERNS AND COMMENTS, AND THIS EVENING WE ARE HAVING THIS PUBLIC MEETING TO PROVIDE ONE LAST OPPORTUNITY FOR ANY DESIRED INPUT INTO THE CCP. ALL COMMENTS, INCLUDING THOSE RECEIVED THIS EVENING, WILL BE CONSIDERED IN THE NRC FINAL QUESTIONS AND COMMENTS TO BE SENT TO CONSUMERS POWER COMPANY. UPON INCORPORATION OF THESE COMMENTS AND REVISION TO THE CCP, THE NRC PLANS TO, AFTER FINAL REVIEW, APPROVE THE CCP.

#### THIRD PARTY OVERVIEW

THE QA PROBLEMS AND THE LACK OF CONFIDENCE IN CONSUMERS POWER COMPANY'S QUALITY ASSURANCE PROGRAM WERE THE BASES FOR THE NRC REQUIRING AN INDEPENDENT THIRD PARTY TO BE UTILIZED TO OVERVIEW THE CCP. STONE & WEBSTER WAS PROPOSED BY CONSUMERS POWER COMPANY TO PERFORM THIS OVERVIEW. STONE & WEBSTER HAS HAD VERY LIMITED INVOLVEMENT IN THE DESIGN AND CONSTRUCTION OF THE MIDLAND PLANT AND IS ONE OF THE MAJOR ARCHITECTURAL FIRMS IN THE UNITED STATES. WHILE IT CAN BE ARGUED THAT STONE & WEBSTER HAS BEEN INVOLVED WITH PROJECTS WHERE THERE HAVE BEEN SIGNIFICANT QUALITY ASSURANCE PROBLEMS, STONE & WEBSTER HAS ALSO BEEN INVOLVED IN PROJECTS WHERE THE QUALITY ASSURANCE PROGRAMS HAVE BEEN LARGELY SUCCESSFUL. THAT RECORD PROBABLY FITS MOST OF THE FIRMS IN THE BUSINESS TODAY. AS SUCH, NRC HAS TAKEN GREAT CARE TO ASSURE THAT THE KEY PERSONNEL

ASSIGNED TO MIDLAND BY STONE & WEBSTER ARE QUALIFIED AND HAVE A GOOD "TRACK RECORD" AT OTHER SITES. THE NRC CONCLUDES THAT STONE & WEBSTER IS QUALIFIED TO PERFORM THIS TASK. NRC INTENDS TO APPROVE STONE & WEBSTER FOR THE OVERVIEW OF THE CCP.

#### ADDITIONAL THIRD PARTY OVERVIEW

THE TERA CORPORATION WAS SELECTED TO PERFORM THE INDEPENDENT DESIGN AND CONSTRUCTION VERIFICATION PROGRAM (IDCV) AT MIDLAND. TERA'S SCOPE CURRENTLY INCLUDES REVIEW OF THE ADEQUACY OF DESIGN AND CONSTRUCTION OF THREE DESIGNATED SYSTEMS. THESE SYSTEMS ARE THE (1) AUXILIARY FEEDWATER SYSTEM, (2) DG STAND-BY ELECTRIC POWER, AND (3) CONTROL ROOM HVAC.

#### CONCERNS

THE CONCERNS OF THE INTERVENORS, GOVERNMENT ACCOUNTABILITY PROJECT (GAP), AND MEMBERS OF THE PUBLIC HAVE BEEN GIVEN DUE CONSIDERATIONS AND ARE BEST EXEMPLIFIED BY:

- PUBLIC MEETINGS ON FEBRUARY 8, 1983 AND ON AUGUST 11, 1983
- VARIOUS CORRESPONDENCE BETWEEN INTERVENORS, GAP, MEMBERS OF THE PUBLIC, AND THE NRC
- FORMAL AND INFORMAL MEETINGS BETWEEN THE NRC STAFF, THE INTERVENORS, AND GAP

VALID CONCERNS HAVE BEEN TAKEN INTO CONSIDERATION BY THE NRC STAFF AND HAVE HAD AN IMPACT ON OUR DECISION PROCESS. THIS IS BEST EXEMPLIFIED BY THE RECENT GAP REQUEST OF JUNE 13, 1983. SIX MAIN ISSUES WERE IDENTIFIED IN THIS REQUEST AND WILL HAVE AN IMPACT ON THE NRC FINAL DECISION REGARDING THE CCP. THESE ISSUES ARE:

- (1) MODIFY THE CONSTRUCTION PERMIT AND INCLUDE MANDATORY HOLD POINTS. THE NRC DOES NOT BELIEVE MODIFICATION OF THE CONSTRUCTION PERMIT IS WARRANTED IN THIS CASE. MANDATORY HOLD POINTS HAVE BEEN INSERTED INTO KEY POINTS IN THE CCP.
- (2) REQUIRE A MANAGEMENT AUDIT. THE NRC BELIEVES THIS REQUEST HAS MERIT AND WILL REQUIRE SOME TYPE OF MANAGEMENT AUDIT BE PERFORMED.
- (3) REJECT THE CCP AND STONE AND WEBSTER AS THE THIRD PARTY.

THE NRC HAS REVIEWED THE LATEST CCP SUBMITTAL. WHILE THIS REVIEW RESULTED IN THE GENERATION OF SEVERAL COMMENTS BY THE STAFF, NO SUBSTANTIVE ISSUES WERE IDENTIFIED. PENDING THE INCORPORATION OF THESE COMMENTS, THE NRC INTENDS TO APPROVE THE CCP.

THE NRC HAS COMPLETED A REVIEW OF S&W AS THE CCP INDEPENDENT THIRD PARTY OVERVIEWER. BASED ON THIS REVIEW, THE NRC HAS CONCLUDED THAT S&W IS QUALIFIED AND INTENDS TO APPROVE S&W FOR THE OVERVIEW OF THE CCP.

- (4) REMOVE THE QA/QC FUNCTION FROM MPQAD (CPCo) AND HAVE AN INDEPENDENT QA/QC TEAM REPORT TO NRC/CPCo MANAGEMENT SIMULTANEOUSLY

THE NRC BELIEVES THE RESPONSIBILITY FOR MANAGING, IMPLEMENTING, AND MAINTAINING A QUALITY PROGRAM MUST REMAIN WITH CONSUMERS POWER COMPANY. THE NRC AS A REGULATOR FOR NUCLEAR POWER CANNOT BE INVOLVED IN THE MANAGEMENT OF THE NUCLEAR PLANT IT IS REGULATING.

- (5) INCREASE THE NRC STAFFING FOR MIDLAND

THE NRC STAFFING PLAN INCLUDES (1) ADDITIONAL INSPECTION PERSONNEL FOR MIDLAND AND (2) AUGMENTED INSPECTION BY CONTRACT PERSONNEL FROM A NATIONAL LABORATORY.

- (6) REQUIRE DETAILED REVIEW OF SOILS SETTLEMENT RESOLUTION; DIESEL GENERATOR BUILDING

THE NRC HAS INITIATED ACTION TO REREVIEW THE SOILS SETTLEMENT DATA AND THE CONCERNS OF THE NRC STAFF. A REPORT WILL BE ISSUED WHEN THESE ACTIONS HAVE BEEN COMPLETED.

CONCLUSION

THE NRC BELIEVES THAT THE CCP WITH THIRD PARTY OVERVIEW AND NRC INSPECTION SHOULD IDENTIFY QUALITY PROBLEMS IN EXISTING CONSTRUCTION AND PROVIDE QUALITY IN NEW CONSTRUCTION AND IN ANY NECESSARY REWORK.

THANK YOU.





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

- AUG 09 1983

Docket Nos. 50-329/330 OM, OL

*fac*  
*sig + 3*  
*fac*

Mr. J. W. Cook  
Vice President  
Consumer Power Company  
1945 West Parnall Road  
Jackson, Michigan 49201

Dear Mr. Cook:

Subject: Construction Completion Schedule for Midland

On April 19-21, 1983, the NPC staff visited the Midland Plant to evaluate construction completion schedules. The meeting discussed the basis for Consumer's revised estimates of October 1984 (Unit 2) and February 1985 (Unit 1). On April 20, 1983, the staff conducted an tour of both units to observe construction progress.

The staff believes that your estimate of 14 months to complete preoperational and acceptance testing for both units is unduly optimistic. Recent experience for a single unit has indicated that this activity will require at least 24 months to complete. Moreover, the staff believes that your forecast does not realistically account for large uncertainties in the work that must precede start of critical path testing, and that this can be expected to add some months to your schedule. These factors alone would infer that your October 1984 projected completion date is optimistic by at least a year.

Since the staff's visit, you have requested an opportunity to meet with the staff to review the material previously provided as well as to provide any additional information for its further consideration in this matter. We also understand that you plan to reconsider your scheduling priorities between Units 1 and 2 in light of recent actions by Dow Chemical Company. At your request, we will be scheduling this meeting in September. A final staff position for Midland's construction completion date will be developed following this further meeting.

Sincerely,

Thomas M. Novak, Assistant Director  
for Licensing  
Division of Licensing  
Office of Nuclear Reactor Regulation

cc: See next page

*8308160064*

AUG 11 1983

MIDLAND

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Mr. J. W. Cook

- 2 -

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