

STONE & WEBSTER ENGINEERING CORPORATION



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United States Nuclear Regulatory Commission
Midland Site Resident Inspection Office
Route 7
Midland, MI 48640

January 5, 1983

J.O. NO 14358
Ref. MFP 15

Attention Mr. R. Cock

RE: DOCKET NO. 50-329/330
Midland Plant - UNITS 1 and 2
INDEPENDENT ASSESSMENT OF AUXILIARY BUILDING UNDERPINNING
REPORT NO. 15

A copy of the Independent Assessment of the Auxiliary Building Underpinning Weekly Report No. 15 for the period December 26, 1982 through January 1, 1983, is enclosed with this letter. Included, as an attachment, are the minutes of the daily meetings held during the week between members of the Assessment Team and Site Engineering, Construction and Quality Assurance personnel.

If you have any questions with respect to this report, please contact me at (617) 589-2067.

Very truly yours,

A. S. Lucks
A. Stanley Lucks

Project Manager

Enclosures

ASL/ka

J. O. NO. 14358
Midland Plant
Units 1 and 2
Independent Assessment
Auxiliary Building Underpinning

Weekly Report No. 15

December 26, 1982 through January 1, 1983

Personnel on Site

Stone & Webster Engineering Corporation (SWEC)

W. Kilker	12/27 - 12/30
L. Rouen	12/27 - 12/30

Parsons, Brinckerhoff, Quade and Douglas (PBQD)

P. Parish	12/28 - 12/30
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Meetings Attended

<u>Date</u>	<u>Represented</u>	<u>Purpose</u>
12/27 through 12/30	Stone & Webster Bechtel Consumers Power Parsons (12-28/12-30)	Daily Meetings

Activities

Construction - The pier W12 drift excavation continued mainly through lean concrete and was advanced to completion, a total distance of approximately 9 ft. from the turbine building northwall. The second steel set was installed and drift lagging was placed along the east side where a zone of backfill soil formed the excavation surface. The quantity of perched groundwater entering the excavation has reduced to a trickle.

The pier E12 access pit has been completed and removal of the lean concrete and soil in the access drift was advanced an average of 2½ ft. Perched groundwater flowing into the excavation was minor and was controlled by sump pumping.

Quality Control, Documentation and Records -

1. Reviewed the Quality Control Documentation on the modification of the first steel set including certification of the inspector and identification marks of the structural members.
2. Verified the completion of Inspection Reports by MPQAD for the east access pits.

Observations

Construction - The construction of the piers W12 and E12 access pits and drifts has been advanced according to the project requirements. The contractor has maintained accurate survey control, groundwater has been efficiently collected and pumped from the excavation, concrete removal has been careful and deliberate, and the steel set and lagging installation were done in accordance with the project documents and good industry practice.

Quality Control, Documentation and Records - The documentation of the steel set modification was accomplished in accordance with project procedures. The final Inspection Reports on the access shaft had been properly completed.

Non-Conformance Identification Reports

NIR #4 - Issued December 29, 1982 - Project procedure on allowable variances in weld rod size and electrical current do not conform to AWS codes.

Status of previous issues: (NIR numbers no longer listed have been closed-out during previous weeks.)

<u>NIR No.</u>	<u>Description</u>	<u>Date</u> (Opened)	<u>Date</u> (Closed)
3	Coupler Testing Temperature	2/12/82	
4	Welding Qualification Procedure	12/29/82	

W. E. Keller
Project Engineer

A. S. Sauter
Project Manager

INDEPENDENT ASSESSMENT TEAM MEETING WITH BECHTEL

Date: December 27, 1982

Attendees:	<u>Bechtel</u>	<u>Stone/Webster</u>	<u>MPQAD</u>	<u>CPCo</u>
	R. Bradford	W. Kilker	L. Kettren	G. Murray
	E. Cvikl	L. Rouen		

1. R. Bradford reported the first steel drift set installation was nearing completion and that the removal of concrete on pier W12 would now proceed.
2. E. Cvikl said the work on shop modification of the steel set was released by QC after field engineering had reviewed the shop drawing last Wednesday December 22, 1982.

INDEPENDENT ASSESSMENT TEAM MEETING WITH BECHTEL

Date: December 28, 1982

Attendees: Bechtel Stone/Webster MPQAD CPCo
 R. Bradford W. Kilker L. Kettren G. Murray
 E. Cvikl

Parsons

Pete Parish

1. Discussion of engineering and QC interpretation of "construction aids." ON-going discussions with respect to what level of "construction aids" are required on drawings.
2. L. Kettren described the on-going process of QC certification. The excavation in concrete has had only minor impacts on progress of certification.

INDEPENDENT ASSESSMENT TEAM MEETING WITH Bechtel

Date: December 29, 1982

Attendees:	<u>Bechtel</u>	<u>Stone/Webster</u>	<u>MPQAD</u>	<u>CPCo</u>
	R. Bradford	W. Kilker	R. Oliver	G. Murray
	E. Cvikl	L. Rouen		
		<u>Parsons</u>		
		P. Parish		

1. R. Oliver reported that MPQAD and FSO have met with respect to resolving issue of defining what is considered a "construction aid" and therefore not required to be shown on a drawing. A procedure will likely be developed to target the responsibility for decision making and possibly field markings will be used to distinguish "construction aids" from structural members.
2. L. Rouen inquired as to who is responsible for tracking the Commitment Punchlist and how the procedure works. G. Murray said SMO uses the list constantly, but that it is developed in CPCo (Jackson.)
3. W. Kilker reminded R. Bradford that P. Parish questions from October on MCP 18, Ground Stabilization, had not been addressed. R. Bradford will take action.

INDEPENDENT ASSESSMENT TEAM MEETING WITH BECHTEL

Date: December 30, 1982

Attendees:	<u>Bechtel</u>	<u>Stone/Webster</u>	<u>MPQAD</u>	<u>CPCo</u>
	J. Fisher	W. Kilker	R. Sevo	G. Murray
	R. Bradford			
	E. Cvikl			

Parsons

P. Parish

1. J. Fisher is looking into need for lagging against excavated surfaces in concrete. Will verify.
2. R. Bradford said MCP 18 on soil stabilization is now in Rev 5. The questions by P. Parish were based on Rev 3. W. Kilker will verify to see if all questions apply. Will notify R. Bradford.
3. J. Fisher & R. Sevo discussed need for jack calibration certification. MPQAD is going to vendor laboratory early in January for auditing and performance testing.
4. R. Sevo reminded E. Cvikl that when pier loading procedure is implemented, engineering must support QC in the effort.