

TO File
FROM TCCooke
DATE June 13, 1979
SUBJECT MIDLAND PROJECT GWO 7020 -
NRC SITE TOUR AND OBSERVATION OF TEST PITS
File: 0460.2 Serial: CSC-4138

CONSUMERS POWER COMPANY
RECEIVED
JUN 14 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

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INTERNAL
CORRESPONDENCE

CC *Attendees GS Keeley, P14-408B
DB Miller JJ Zabritski, P14-416
*Bechtel and Consumers attendees only.

*NRR meeting on site of
June 7, 1979*

I. Individuals Present:

Sherif S. Afifi	Bechtel Assistant Chief Soils Engineer
R. E. Lipinski	DSS/NRC
J. P. Knight	DSS/NRC
Daniel M. Gillen	DSS/NRC
C. A. Hunt	Consumers Power Executive Civil Engineer
P. A. Martinez	Bechtel Project Manager
*A. J. Boos	Bechtel Project Field Engineer
*R. J. Cook	Resident Inspector/NRC
*T. E. Vandell (Entrance only)	US NRC Region III
Lyman Heller	US NRC NRR
T. E. Johnson	Bechtel Chief Civil/Structural Engineer
K. Dhar	Bechtel Supervisory Engineer
T. C. Cooke	Consumers Power Project Superintendent
D. E. Sibbald	Consumers Power Senior Construction Advisor
K. Wiedner	Bechtel Engineering Manager
*D. Horn	Consumers Power Quality Assurance Group Supervisor/Civil
R. M. Wheeler	Consumers Power Civil Section Head

*Part time

II. Discussion Tour Comments

- A. The individuals from the NRC were extremely interested in cracks in the Auxiliary Building, Service Water Building, and Diesel Generator Building. Many questions were asked regarding differential settlement. They seem to be under the impression that there was a great deal of building settlement other than the Diesel Generator Building and that large cracks exist somewhere on the site. We continually had to reiterate the fact that remedial actions were based on soil borings which showed questionable material and not settlement problems. Mr. Lipinski, in particular, was very interested in why we had cracks and analysis regarding same.
- B. During the tour it was apparent that the NRC's questions were oriented towards seismology aspects. They were also interested in whether or not we had re-reviewed the different seismic conditions in the light of our

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concrete backfill revisions for the Auxiliary Building, wing walls, etc., since the addition of concrete could cause new reactions and forces requiring reanalysis. It was noted that the concrete backfill would be separated from the structures by styrofoam and not tied to the structures. The NRR alluded to possibly more stringent earthquake requirements."

- C. When observing the test pits, Mr. Heller expected more sand in the "random fill". It was noted that sand was used primarily around utilities and next to buildings.
- D. Mr. Heller appears to be of the view that the simpler engineering fix on the service water overhang, such as concrete backfill as opposed to more complex remedial action, would stand a much better chance of passing review, due at least partially to the fact that much of the available manpower in Washington was involved with Three Mile Island and also because simple straightforward engineering practices will be much easier to discuss in any hearing process. The NRR was informed that piling at the Service Water structure was only for vertical load and that no moments were involved. It appears that possibly Mr. Knight's staff has been reduced from about fifty to near eight, with the forty people being tied up on Three Mile Island activities. There will be a corresponding cutback in the normal amount of licensing activities that will be undertaken by his staff over the next several months.
- E. NRR noted that they should receive copies of any Diesel Generator (total site related) material that is being transmitted to Region III directly from the licensee. It also appears that Mr. Knight is more interested in resolving the Midland fill problems in the near future on a "real time basis" as opposed to later review and approval functions such as might be found in going the FSAR route. (Note: Consumer Power Company has been attempting for weeks to arrange a meeting with NRR but it was not until the week of June 4, 1979 that we were able to set a meeting date with them of July 10, 1979.) He recognized that presently the licensee was involved in answering the same or possibly similar questions on three fronts, namely the I&E questions, 50.54f responses and future FSAR revisions, and agreed that it would be beneficial to all parties to consolidate these areas. During the tour it also appeared that in the future NRR may become much more deeply involved in the details in all licensing aspects than they have in the past.
- F. It would appear that we should provide more rationale and better arguments for support of duct bank and pipes and man holes, valve pits, etc. during the seismic event. We have to verify or prove that duct banks, for example, will not shear during the earthquake. Mr. Heller was of the opinion that our responses on the safety aspects concerning the borated water storage tank lines will have to be extremely conservative, and that at this point in time for our responses to be accepted, he would be inclined to say that questionable material should be removed and fixed rather than going through some complex explanation as to why it was "acceptable as is" since this was a Category One item which would be required during the postulated accident conditions.

Generally, the NRR personnel appeared to find the information gathered during the tour and observation of the test pits to be of value and the type of information which would expedite their decision making process.

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Midland Project: P.O. Box 1963, Midland, Michigan 48640 - Area Code 517 631-0951

July 6, 1979

Mr. R. L. Castleberry
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MIDLAND PROJECT GWO 7020 -
STAINLESS STEEL PIPE ATTACK
File: B1.7 Serial: CSC-4198

Recently a 6" section of stainless steel pipe, partially buried in the area of the condensate tanks, was noted to have pitting and stains. A section of the pipe was cut off and sent to our Trail Street Laboratory for analysis. Preliminary indications are that this pitting may be due to an electro-chemical attack. The stain was reported to be high in calcium and silicon with small peaks of sulfur, chloride, potassium, titanium and copper.

At this point we do not know whether the soil itself has initiated the problem or whether something was spilled on the pipe. However, the soil is being questioned. Since excavation or examination or replacement of buried stainless steel pipe at this site would have extensive commercial implication and possibly NRC Regulatory involvement, it is requested that your office set up an immediate investigative program concerning the soils with an outside laboratory. Our Trail Street Lab may not have the capability of doing the soils analysis.

By copy of this letter to Mr. J. F. Newgen, it is requested that he immediately check to see whether or not anything containing the above mentioned material could have been inadvertently spilled on the pipes. Please contact our Mr. Derk J. Vokal should you have any questions on this subject.

A handwritten signature in cursive script, appearing to read 'T. C. Cooke'.

T. C. Cooke
Project Superintendent

TCC/bd

CC: RCBauman
JLCorley
GSKeeley
JFNewgen