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F. Williams

F. Williams Reading

J. Lee

D. B. Vassallo

May 29,.1979

MEXICADUM FOR: Edward S. Christenbury, Chief Hearing Counsel, OELD

FR2:1:

9. 3. Vassallo, Assistant Director for Light Mater Reactors.

Division of Project Management

SUBJECT:

SOARD NOTIFICATION RECONCIENDATION - MIDLAND - DIESEL GENERATOR BUILDING FOUNDATION AND QUALIFICATION OF COMPONENTS (EN-79-21)

A memorandum from OISE on May 17, 1979 recommended that the Midland Soard be notified of (a) followup information on the Diesel Generator Building Foundation problem (8%-73-27) and (b) 50.55(e) reports on the qualification of components.

The Midland case is not in the Board Notification time frame. The SER Supplement addressing ACRS concerns has not been issued. (3N-79-27) provided information to the Board on the foundation problem due to a special request from CELD which noted that a prehearing conference was to be held in which that information could be useful .\_

Additional reports on that problem need not be sent to the Board. They have been cade aware of the situation and will be provided with the staff assessment in the SER and SER Supplement and then they will automatically be provided with staff correspondence on that subject.

The information regarding the qualification of components does not appear to qualify as Soard notification information regardless of the time frame. It regresents a program by the applicant to assure proper qualification of compoments. Soard notification would be required if the program indicated that they were unable to properly qualify components.

D. B. Vussalla \_

8406070338 840517 PDR FOIA RICEB4-96 PDR D. B. Vassallo, Assistant Director for Light Water Reactors Division of Project Management

Enclosure: as Stated

V. Stello R. Baer D. Hood co: H. Denton O. Parr R. DeYoung E. Case S. Varga V. Hoore D. Eisenhut L. Hichels J. Javis. IE IE(7) 3. Grimes .D. Thompson R. Boyd

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-		J. A. Mans	cab DBVassallo	***
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# FAX 3/9/19

To: DARL HOOD, NAR

From: R. Shewnsker, IE

SUBJECT: Input of Questions for 10 CFR 50.54(f) Ltr. to Consumers on MIDLAND

2 pages follow

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## MIDLAND QUESTIONS

- 1. The licensee has stated that the fill has settled under its own weight. What assurance is provided that the fill has not settled locally under
  - a. Structures with rigid mat foundations as portions of the auxiliary building or service water pump structure?
  - b. Class I piping in the fill resulting in leck of continuous support causing additional stress not accounted for in design.
- 2. How has the lack of compaction and the increase in soil compressibility effected the seismic response spectra used in design and therefore the soil-structure interaction during seismic loading?
- 3. After current preloading material is removed will additional borings be taken to ascertain that the material has been compacted to the original requirements see forth in the PSAR and construction license application?
- 4. Since the foundation material is variable as described in 50.55(e) interim report number 4, how car long term differential settlement be predicted to assure reliable startup of the D/G in the event of emergency.
- 5. What tolerance does the D/G ranufacturer require on the alignment of the D/G for reliable operation and startup?
- 6. Preliminary information indicates that the piping in fill under and in the vicinity of the D/G building have gross deformations induced either prior to or during the preload program. What is the extent of deformation in the building taken to correct the condition.
- 7. The borated water storage tanks and diesel fuel oil tanks have not yet been constructed and are to be located in questionable plant fill of varying quality. Why should those Class I structures be constructed prior to assuring the foundation material is capable of supporting such structures for the plant life?

#### MIDLAND QUESTIONS

- 8. FSAR Figure 2.5-48 shows estimated ultimate settlements which indicate a differential settlement across individual mat founcation and within individual structures. Was this differential accounted for in the original design of the mat foundation and in the design of structured member within the structure? If not, what effect does this differential settlement have on additional stresses induced in the mat or in structure members such as also-beam-column connections?
- 9. Based on the information provided in CPCo interim report number 4, it appears that the tests performed on the exploratory borings indicate soil properties that do not meet the original compaction criteria set forth in the PSAR and specification for soils work. What assurance is there that the soil under other Class I structures not accessible to exploratory boring meet the control compaction requirements?

Vussullo, Thomburg, Knight Rebinstein, Lorga, Olinskad, Storelt Hood, Certifinan, Howmater, Has, Sprand, \_\_\_\_\_\_ Bochman

1/20/24 hiense requested reparation of

1) DG

2) SAFETY

3) QH

Answer hie by 9/2/19

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Broft letter by NRR on Ind. problem

Hear memor

DG being fixes - they are farible

Emight - concern of answering overall how we have confidence; Knight thinks we need an order to do appende things to assure and provide us with facts to satisfy us

Oth - work dready done; need a wike giteal program to investigation works algeady done; attack the organization of the At program; because is involvement

Shavnaka degota 7

Appeals Board directions:

1. adequate QA program

2. tech qualifications:

3. Management attitude

4. demonstration of alequary of QA program

NRR - Vassallor

owes IE technical response

Lo QZ and technical response

QA implementation — IE needs to decide whether

there is a general breakdown substantial enough to usue a Show Cause Order

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Andrew Delia Bull Live Comment of the Comment

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## ENCLOSURE 2

## ATTENDEES

- J. Knight D. Skovholt
- W. Haass

- D. Vassallo S. Varga L. Rubenstein
- D. Hood H. Thornburg R. Shewmaker R. Backman W. Omstead

- R. Lieberman J. Gilray J. Spraul