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Mr J G Keppler, Regional Director
Office of Inspection and Enforcement
US Nuclear Regulatory Commission
Region III
799 Roosevelt Road
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MIDLAND PROJECT

SURCHARGE OF THE BORATED WATER
STORAGE TANK FOUNDATION

FILE: 0485.16, 0.4.9.49 UFI: 73*10*01, 71*01,
01100(E), 02362(S), 00234(S) SERIAL: 13352

REFERENCES: JWCOOK LETTERS TO JGKEPPLER

- (1) SERIAL 11201, DATED FEBRUARY 20, 1981
- (2) SERIAL 11528, DATED APRIL 3, 1981
- (3) SERIAL 12015, DATED JUNE 12, 1981
- (4) SERIAL 12799, DATED JUNE 26, 1981

ENCLOSURES: (1) SKETCH, BORATED WATER STORAGE TANKS
RING WALL TOP ELEVATIONS
(2) DRAWING M-58 SH 1 REV 4, AND SH 2 REV 6
SAFETY RELATED YARD PIPING FROM TANKS
IT60, IT71 & IT72 TO AUXILIARY BUILDING
(3) DRAWING C-004 SH 1 REV 7 YARDWORK
FOUNDATION SETTLEMENT MONITORING

This letter, as were the referenced letters, is an interim 50.55(e) report concerning the existence of cracks in the borated water storage tank foundation. This letter provides information requested in a telephone conference on July 15, 1981 with D C Boyd of your staff, NRC Washington Staff and the Corps of Engineers.

We are revising the Bechtel specifications for the surcharge program to resolve the NRC concerns raised during the discussion as follows:

1. The crack examination frequency for the visual inspection of the borated water storage tank ring walls and valve pits will be daily during the surcharge period. Inspection of the valve pit walls will be performed from inside the pits.
2. Surcharge loading of the valve pits will be stopped if existing crack widths or new crack formations are in excess of 20 mils in the pit walls.

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Inspection prior to surcharge loading will serve as the baseline condition. Engineering will be notified immediately to evaluate the situation upon such an occurrence.

3. If the maximum settlement, 1/2 inch, is reached prior to full surcharge loading, further loading will be stopped pending an engineering evaluation.

The following enclosures were requested by the NRC for information:

1. Enclosure 1, Borated Water Storage Tanks Ring Wall Top Elevations.
2. Enclosure 2, Drawing M-58 Sh 1 Rev 4 and Sh 2 Rev 6, shows the locations and elevations of the 3-inch and 4-inch pipelines.
3. Enclosure 3, Drawing C-994 Rev 7, shows the bench mark locations for settlement monitoring. Bench Mark PBM 1 will be used for settlement monitoring during the surcharge program.

We believe this additional information combined with our telephone conference call on July 15, 1981 responds to the additional concerns raised by the NRC. We plan to carry on with the surcharging program, which was scheduled to begin on July 6, 1981 as soon as we secure NRR concurrence. Please inform us as soon as possible if this additional information does not meet your intentions.

Another report, either interim or final will be sent on or before September 15, 1981.

James W. Cook

JWC/WJC/cr

CC Director, Office of Inspection and Enforcement
 Att Mr Victor Stello (15) w/a
 Director, Office of Management Information
 and Program Control, USNRC (1) w/a
 RJCook, Midland Resident Inspector (1) w/a
 HRDenton, NRR (4) w/a
 JDKane, NRR (1) w/a
 PLeech, NRR (1) w/a
 CBechhoefer, ASLB Panel w/o
 RSDecker, ASLB Panel w/o
 FPCowan, ASLB Panel w/o
 MMCherry, Esq w/o
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 BStamaris, w/o