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MAY 4 1978

Docket Nos. ~~50-445~~
and 50-446

MEMORANDUM FOR: Stan Echols, EPM
Environmental Projects Branch #2, DSE

FROM: William S. Bivins, Leader
Hydrologic Engineering Section
Hydrology-Meteorology Branch, DSE

SUBJECT: HYDROLOGIC ENGINEERING QUESTIONS

PLANT NAME: Midland Units 1 and 2
DOCKET NUMBERS: 50-329 and 50-330
REQUESTED COMPLETION DATE:
REVIEW STATUS: Continuing

THIS DOCUMENT CONTAINS
POOR QUALITY PAGES

We have completed our review of the Midland Plant Units 1&2 Environmental Report and are submitting hydrologic engineering questions for your transmittal to the applicant. We noted several illegible figures in various sections throughout the report but have listed only those that are related to Hydrologic review. The review was done by T. Johnson and R. Gonzales.

Original Signed by
William S. Bivins

William S. Bivins, Leader
Hydrologic Engineering Section
Hydrology-Meteorology Branch
Division of Site Safety and
Environmental Analysis

Enclosure:
As Stated

cc: w/o encl:
R. Boyd
R. DeYoung

cc: w/encl:
H. Denton
D. Muller
W. Cammill
T. Johnson
R. Gonzales

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| OFFICE → | DSE:HMB | DSE:HMB | DSE:HMB | DSE:HMB | |
| SURNAME → | TJohnson:km | RGonzales | WSBivins | LHyman | |
| DATE → | 05/01/78 | 05/01/78 | 05/3/78 | 05/4/78 | |

HYDROLOGIC ENGINEERING ACCEPTANCE REVIEW
MIDLAND PLANT UNITS 1&2

1. Provide a clearer and more detailed topographic map of the site area. Figure 2.4.1 is illegible.
2. Provide a map showing the locations of the groundwater users listed in Tables 2.4-8, 2.4-9 and 2.4-10.
3. Provide a summary of legal restrictions relating to water use imposed by State or Federal regulations.
4. Discuss the erosion and transport mechanisms applicable to surface-water bodies in the site area.
5. Provide the velocity distribution and flow characteristics at or near the intake and drainage structures.
6. Discuss the interaction of groundwater and surface water in the site area, including points at which groundwater discharges into streams.
7. Discuss the historical and seasonal trends in aquifer water levels.
8. Provide a water use diagram and a narrative showing and discussing the flow rates to and from the various systems, including heat dissipation, service water and other systems.
9. Provide a description of seasonal water use variations under maximum, minimum and average conditions.
10. Figures 2.1-16, 2.1-17, and 2.1-18, are illegible and should be replaced.