

Norelius



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
799 ROOSEVELT ROAD
GLEN ELLYN, ILLINOIS 60137

JUN 24 1982

MEMORANDUM FOR: R. L. Tedesco, Assistant Director for Licensing,
Division of Licensing

FROM: C. E. Norelius, Director, Division of Engineering and
Technical Programs

SUBJECT: MIDLAND SSER

As requested in your memorandum of June 9, 1982, attached are SSER writeups for Items 1, 5 and 6 (identified in Enclosure 2 of your memo) addressing concerns in the ACRS Interim Report of June 8, 1982. Drafts of the three writeups were transmitted to Daryl Hood on June 18, 1982 and a revised writeup of Item 6 was transmitted to Mr. Hood on June 22, 1982. If you have any questions, please contact myself or Mr. W. Little of my staff.

C. E. Norelius
C. E. Norelius, Director
Division of Engineering and
Technical Programs

Attachment: As stated

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Midland ACRS Statement - SSER Item 1

In view of the overall concern about Midland quality assurance the NRC should arrange for a broader assessment of Midland's design adequacy and construction quality with emphasis on installed electrical, control, and mechanical equipment as well as piping and foundations. We wish to receive a report which discusses design and construction problems, their disposition, and the overall effectiveness of the effort to assure appropriate quality.

NRC Response for Inclusion in SSER

NRC Region III will prepare a report discussing Midland construction problems, their disposition and the overall effectiveness of the Consumers Power Company effort to assure appropriate quality. This report will cover the period starting with the beginning of construction up to June 30, 1982 and will be issued by October 1, 1982. Prior to NRC Region III's making a finding relative to Midland readiness for operation, a final report will be issued on the above subjects for the period from July 1, 1982 through the completion of construction discussing the overall quality of plant construction. At that time the preoperational and hot functional test programs will be essentially complete giving an additional insight into the overall construction and also design quality. Any new NRR inspection program activities, and their results, directed towards evaluating design quality will be included in this final report.

In addition to the above NRC reports, the NRC staff has required the licensee to have an independent review conducted to evaluate the adequacy of Midland design and construction, which must be submitted for NRC review and evaluation prior to issuing an operating license.

Midland ACRS Statement - SSER Item 5

The Committee has endorsed the NRC Staff position concerning experience on each operating shift.

Response

The NRC Staff position is that each operating shift should have at least one person who has commercial PWR operating experience or experience in the startup of a similar PWR. The shifts should be so supplemented at fuel load, and for one year or until the attainment of a nominal 100% power, whichever occurs later. A copy of the Committee's letter has been forwarded to the applicant. The applicant has stated that it intends to meet our position and is exploring the availability of experienced personnel through several agencies. The NRC Staff will condition the applicant's license to require appropriate experience on each shift.

Midland ACRS Statement - SSER Item 6

The Applicant's experience with the operation of nuclear power plants should, in principle, place Consumers in a favorable position to provide continuing, careful oversight of the operations at the Midland Plant. In view of some prior adverse operating experience at the Palisades Plant however, we recommend that the NRC Staff institute an augmented audit of operations at Midland, at least during the early years of operation at power.

Response

NRC Region III will implement an augmented audit of operations at Midland during the early years of operation. The scope of this program will be developed prior to the issuance of an operating license and will be based on the following:

1. Resident Inspector Experience - A construction Senior Resident Inspector has been at the Midland site since July 1978. An operations Resident Inspector will be assigned to Midland starting August 8, 1982.
2. Operating experience with other Consumers Power Company nuclear power plants.
3. Regional inspection experience with the licensee's performance in conducting the preoperational and hot functional test programs. This will be an augmented inspection effort going beyond the current inspection program.
4. Results of the regional based team inspection to evaluate the operational quality assurance program. This inspection begins approximately six months prior to the issuance of an operating license.

The routine inspection program provides extensive coverage of reactor operations during the first year of operation. Experience from the routine program will be used to "fine tune" the augmented audit of operations.