

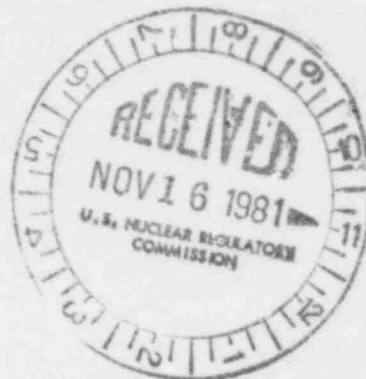


Consumers
Power
Company

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November 6, 1981



Mr Harold R Denton, Director
Office of Nuclear Reactor Regulation
US Nuclear Regulatory Commission
Washington, DC 20555

MIDLAND PROJECT
MIDLAND DOCKET NOS 50-129, 50-330
ENVIRONMENTAL REPORT (OLS)
FILE 0505.5 SERIAL 14831

In response to Elinor G Adensam's letter of October 1, 1981 regarding the Midland Plant Environmental Report (OLS), I have enclosed the additional information requested by Enclosure 1 of her letter. This information will be incorporated into the Environmental Report (OLS) as part of Revision 13 by December 1981.

James W. Cook

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Question #1

For the decade 1981-1991, indicate the changes in capability planned by Consumers Power (CP) and Detroit Edison (DE) to accommodate the peak demand and energy forecasts. An extension of Table 1.1-9 of Revision 12 to the ER-OL (June 1981) to the Year 1991 would suffice. Also indicate the reserve margin for each year and minimum margin required to meet system (CP and DE) and interconnection standards.

Response

An extension of Table 1.1-9 (referenced in ER Section 1.1.2) is provided in the attached Question #1 (Part 1 of 2). This table summarizes system capacity conditions for CP, CP-DE and East Central Area Reliability Coordination Agreement Power Systems (ECAR) for the Years 1986-1991.

Question #1 (Part 2 of 2) provides a table of reserve margins in percent for CP, CP-DE and ECAR for the Period 1981-1991.

QUESTION #1 (Part 1 of 2)

CPCo + CP-DE + ECAR

Installed Capability (MW)

| Year | Consumers Power Company | | | | Consumers Power-Detroit Edison | | | | ECAR (Bulk) | | |
|------|-------------------------|--------------------|----------------------|-------------------|--------------------------------|--------------------|----------------------|-------------------|-------------------------|--------------------|-------------------|
| | Installed Capability | Ludington Lease | Purchases (Sales) | Net Capability | Installed Capability | Ludington Lease | Purchases (Sales) | Net Capability | Installed Capability | Net Interchange | Net Capability |
| 1986 | 7918 | (159) | 37 | 7796 | 19706 | (312) | 136 | 19530 | 108805 | (81) | 108724 |
| 1987 | 7918 | (159) | 34 | 7793 | 19706 | (312) | 113 | 19507 | 110991 | (187) | 110804 |
| 1988 | 7918 | (159) | 32 | 7791 | 19706 | (312) | 91 | 19485 | 115711 | 16 | 115727 |
| 1989 | 7918 | 0 | 30 | 7948 | 19706 | 0 | 70 | 19776 | 117930 | (98) | 117832 |
| 1990 | 7918 | 0 | 29 | 7947 | 19706 | 0 | 49 | 19755 | 119700 | 0 | 119700 |
| 1991 | 8238 | 0 | 11 | 8249 | 20326 | 0 | 11 | 20337 | 124800 | 0 | 124800 |

QUESTION #1 (Part 2 of 2)

CPCo + CP-DE + ECAR
RESERVE MARGIN (%)

| <u>YEAR</u> | <u>CPCo</u> | <u>MECS</u> | <u>ECAR (BULK)</u> |
|-----------------------------------|-------------------------------|-----------------------------|-----------------------------|
| 1981 | 40.6 | 35.8 | 39.5 |
| 1982 | 37.7 | 29.3 | 33.6 |
| 1983 | 24.8 | 20.6 | 29.9 |
| 1984 | 44.3 | 34.8 | 31.7 |
| 1985 | 38.1 | 34.3 | 33.1 |
| 1986 | 34.6 | 35.0 | 32.4 |
| 1987 | 30.8 | 31.1 | 30.9 |
| 1988 | 16.2 | 26.8 | 31.4 |
| 1989 | 15.6 | 25.6 | 32.0 |
| 1990 | 22.6 | 22.2 | N/A |
| 1991 | 24.6 | 23.0 | N/A |
| MINIMUM RESERVE REQUIREMENT | 23% PER SECTION 1.1.3.2 | N/A PER SECTION 1.1.4 | 40% PER SECTION 1.1.4 |

Question #2

Provide a fuel mix (percent coal, gas, oil, other) on an energy basis for the CP-DE system as would pertain with and without Midland 1 & 2 for the first full year of operation.

Response

A fuel mix breakdown for CP-DE system for the Year 1985 is provided in the attached Question #2. The "Other" category under the "Fuel Type" column includes the effects of operating the Ludington Pumped Storage facility.

QUESTION #2

CP-DE SYSTEM
FUEL MIX
(Energy Basis)

1985

| <u>FUEL TYPE</u> | <u>MIDLAND IN(%)</u> | <u>MIDLAND OUT(%)</u> |
|------------------|----------------------|-----------------------|
| Oil | 1.22 | 2.55 |
| Gas | .29 | .35 |
| Coal | 74.22 | 80.40 |
| Nuclear | 24.63 | 17.20 |
| Other | -.36 | -.50 |

Question #3

Provide the estimated electrical energy production during Midland 1 & 2's first 5 years of commercial operation.

Response

The estimated electrical output from the Midland Plant during the first five years of commercial operation is summarized in the attached Question #3. The projected reduction of electrical output in 1985 is due to a scheduled 12-week outage for turbine/generator inspection and other routine maintenance on the Midland 2 Unit.

QUESTION #3

MIDLAND
ELECTRICAL OUTPUT

(GWh)

| <u>UNIT</u> | <u>1983</u> | <u>1984</u> | <u>1985</u> | <u>1986</u> | <u>1987</u> | <u>1988</u> |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| #1 | 0 | 2191 | 2360 | 2685 | 2995 | 2762 |
| #2 | 1022 | 4517 | 2664 | 4219 | 3919 | 3967 |
| TOTAL | 1022 | 6708 | 5024 | 6904 | 6914 | 6729 |