

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING APPEAL BOARD

In the Matter of)
CONSUMERS POWER COMPANY) Docket Nos. 50-329
Midland Plant, Units 1 and 2) 50-330

AFFIDAVIT OF LAWRENCE P. CROCKER

State of Maryland)
County of Montgomery) ss

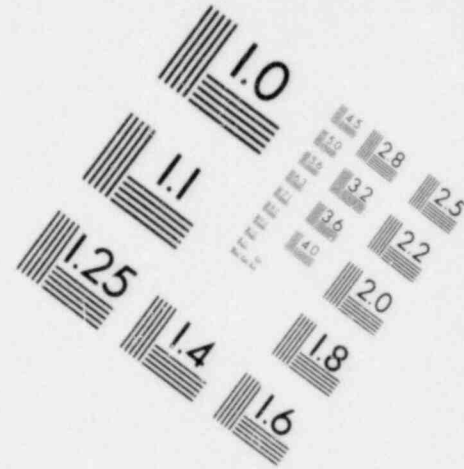
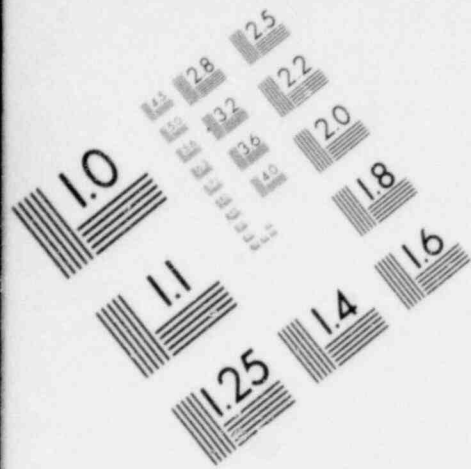
Lawrence P. Crocker, first being duly sworn, deposes and says:

I am the Technical Assistant to the Director of the Division of Project Management in the Nuclear Regulatory Commission. My professional qualifications appear following Tr. 4177 of the transcript in this proceeding. In this affidavit, I present the data available to the Staff regarding the construction costs and schedules for the Midland Plant.

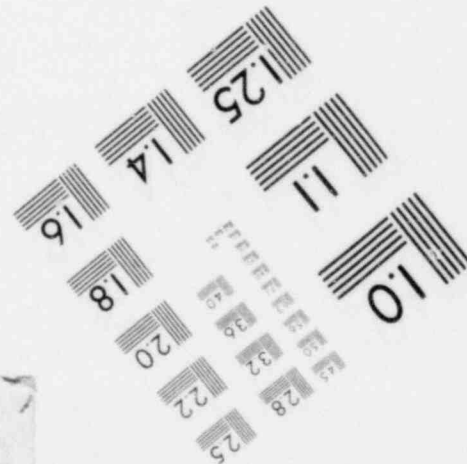
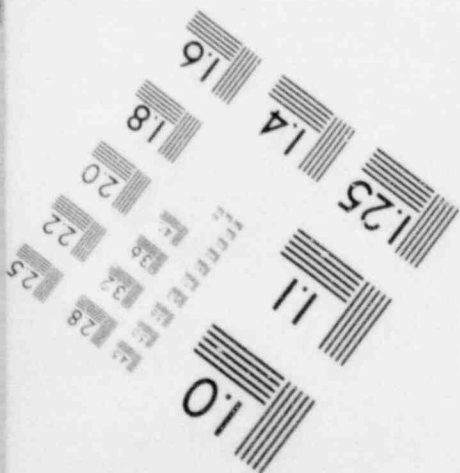
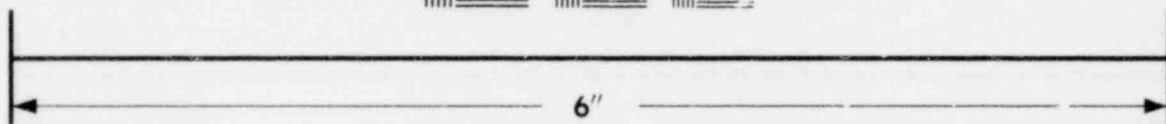
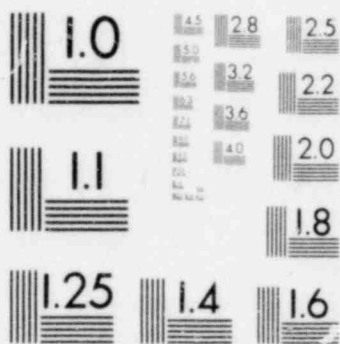
The Nuclear Regulatory Commission (NRC) does not normally collect or maintain detailed cost and construction progress data regarding specific nuclear power facilities. Such data as we do have available are as reported by the licensees for the facilities. We have no responsibility for, nor do we become involved with, either the scheduling of construction activity or the rate of expenditure of project funds.

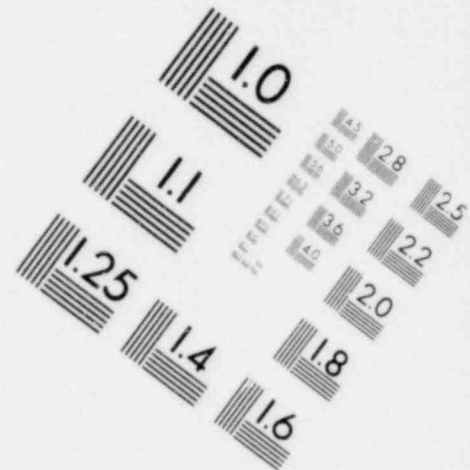
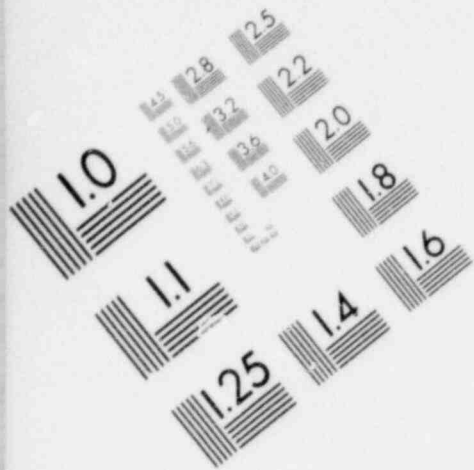
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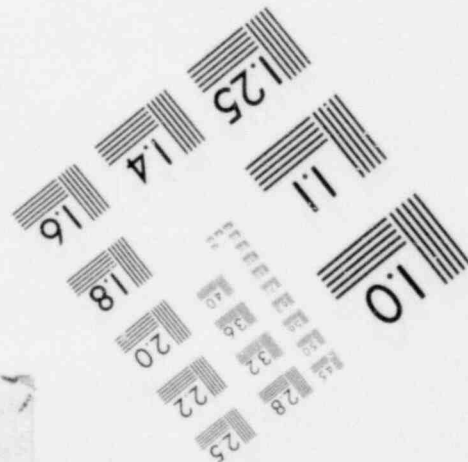
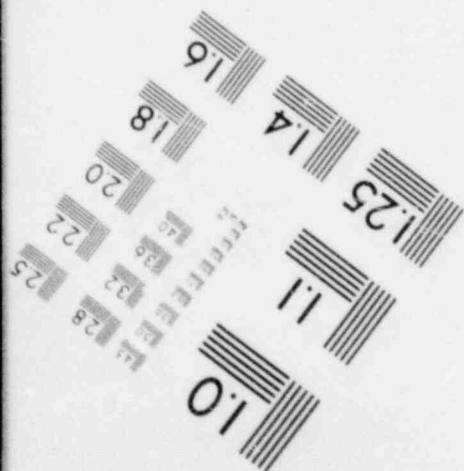
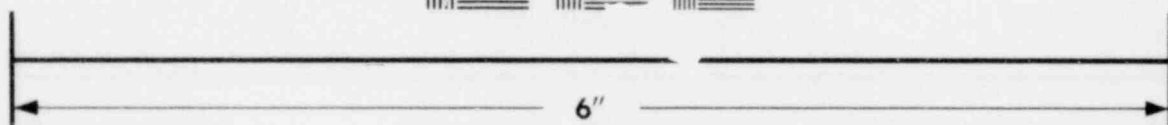
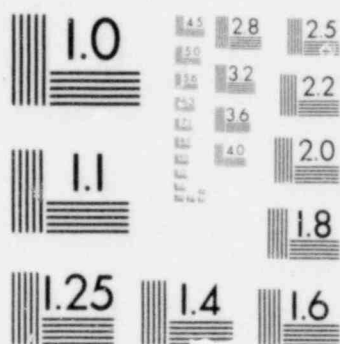


**IMAGE EVALUATION
TEST TARGET (MT-3)**





**IMAGE EVALUATION
TEST TARGET (MT-3)**



The NRC regional offices do maintain an awareness of near term construction activities as projected by the licensees in order to schedule inspections of the construction work in progress. Further, on a monthly basis, the NRC publishes a Construction Status Report, NUREG-0030, which provides data as reported by the licensees on the projected construction activity at each nuclear facility. The purpose of this periodic report is to enable the staff to maintain an awareness of projected fuel loading dates so that it can properly schedule staff review efforts.

The NRC Office of Management Information and Program Control (MIPC) is responsible for publication of NUREG-0030. Based on MIPC records, they have furnished data on the quarterly construction progress for the Midland Plant, Units 1 and 2, as shown on Table 1. Data for construction completion for the periods through September 30, 1977, are as reported to MIPC by Consumers Power Company. The estimated percentage completion figures from December 31, 1977 through December 31, 1978, are NRC staff estimates of the probable construction progress that will be made during the current calendar quarter and continuing through 1978. These estimates are based on the assumption that the construction effort will continue at about the present rate during this period. The latest report from the licensee estimates the construction completion as of the end of October 1977, to be 31% for Unit 1 and 35%

for Unit 2. Over the last ten months, construction placement has averaged about 1.5% per month.

Construction of the Midland Plant actually started in accordance with a variance issued on July 30, 1970, which allowed limited preconstruction activity. Construction permits for the Midland units were not issued until December 15, 1972. Construction was suspended during the Spring of 1973 while hearings were held regarding quality assurance for the design and construction. On May 23, 1973, the construction permits were amended to incorporate quality assurance reporting requirements. Actual plant construction resumed on June 15, 1973.

The funds expended on the Midland Plant, as compiled from data available to the NRC staff are shown on Table 2. These data were obtained from annual reports of Consumers Power Company for the periods through 1976 and from the licensee's response to Intervenor's Interrogatory No. 3 for calendar years 1977 and 1978. ^{1/} The NRC

^{1/} "Licensee's further answers to Interrogatories from all Intervenor's except Dow Chemical Company, dated December 27, 1976" filed February 7, 1977; Attachment C-2.

does not have estimates of construction costs by calendar
quarter.

Lawrence P. Crocker

Lawrence P. Crocker

Subscribed and sworn to
before me this 10th day of
November, 1977

Carol J. Dinkham
Notary Public
In and for the
County of Montgomery,
State of Maryland

My Commission Expires: July 1, 1978

TABLE 1
CONSTRUCTION STATUS
MIDLAND PLANT, UNITS 1 & 2

<u>DATE</u>	<u>PERCENT COMPLETE</u>	
	<u>UNIT 1</u>	<u>UNIT 2</u>
6/15/73	CONSTRUCTION RESTART - BOTH UNITS	
9/30/73	2	2
12/31/73	2	2
3/31/74	4	4
6/30/74	5	5
9/30/74	7	9
12/31/74	5	9.5
3/31/75	5	10
6/30/75	7	10
9/30/75	8	11
12/31/75	9	12
3/31/76	11	14
6/30/76	13	16
9/30/76	14	18
12/31/76	16	19
3/31/77	19	23
6/30/77	24	29
9/30/77	29	34
*12/31/77	32	37
*3/31/78	34	40
*6/30/78	37	43
*9/30/78	40	47
*12/31/78	42	51

1. 9/30/73 through 9/30/77 as reported by Consumers Power Company.
2. * Projected percentage complete as estimated by NRC staff.

TABLE 2
EXPENDITURE OF FUNDS
MIDLAND PLANT, UNITS 1 & 2

<u>DATE</u>	<u>CUMULATIVE EXPENDITURE OF FUNDS</u>	<u>SOURCE</u>
12/31/74	\$204.8 million	1975 Annual Report
12/31/75	\$273.8 million	1976 Annual Report
12/31/76	\$425.7 million	1976 Annual Report
12/31/77-E	\$670.7 million	Licensee response to Interrogatory 3
12/31/78-E	\$965.3 million	Licensee response to Interrogatory 3

"E" denotes estimated expenditures.

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CERTIFICATE OF SERVICE

I hereby certify that copies of "NRC STAFF BRIEF IN OPPOSITION TO INTERVENORS EXCEPTIONS TO THE LICENSING BOARD ORDER OF SEPTEMBER 23", dated November 14, 1977 in the above-captioned proceeding, have been served on the following by deposit in the United States mail and if indicated by asterisk by personal delivery, this 14th day of November, 1977:

* Michael C. Farrar, Chairman
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Appeal Board
U. S. Nuclear Regulatory Commission
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Panel
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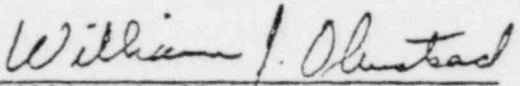
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U. S. Nuclear Regulatory
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Washington, D. C. 20555


William J. Oimslead
Counsel for NRC Staff