Regulatory Docket File



Consumers Power Company

General Offices: 212 West Michigan Avenue, Jackson, Michigan 49201 + Area Code 517 788-0550

March 29, 1976

Director of Nuclear Reactor Regulation Attn: Mr. Roger Boyd, Director Division of Project Management U.S. Nuclear Regulatory Commission Washington, DC 20555

MIDLAND PROJECT HIGH ENERGY LINE BREAK ANALYSIS CRITERIA FILE: B3.6 SERIAL: 2247



Performance of the Midland High Energy Line Break Analysis (HELBA), since the submittal of PSAR Amendment 25, has raised many questions on interpretation of NRC criteria for the analysis. We feel that these questions can best be addressed by a meeting with the appropriate NRC staff personnel. A proposed agenda outlining the topics of discussion has been attached for your consideration.

Due to the impact upon the Midland High Energy Line Break Analysis, we would appreciate an opportunity to meet with your staff as soon as possible.

R. C. Bauman Project Engineer

RCB/fw

3417

8006160310

PROPOSED HIGH ENERGY LINE BREAK ANALYSIS

MEETING AGENDA

Interpretation of piping runs, branch runs, and terminal end points

We propose that piping runs and branch runs for piping inside and outside containment be treated as a total piping system between fixed points (anchors) since the stress analysis performed considers it as such. We perform thermal, dead weight, and seismic stress analyses for the total system including branch lines (within anchors). The analysis considers all of the stress intensification factors and flexibility factors as applicable to various piping components. Thus, we propose that breaks be postulated within the system as follows:

- Terminal end points (anchors) (Branch connections to main piping are not considered as terminal ends.)
- At all points which exceed the stress criteria of R.G. 1.46 (As a minimum, two (2) intermediate breaks will be selected for each piping system, [main and branch lines within anchors])
- II. Longitudinal slot breaks at terminal end points

We propose that longitudinal slot breaks not be postulated to occur at terminal end points for piping without longitudinal welds. This proposal is in accordance with Section 3b(2)(a) of the Branch Technical Position MEB 3-1 and should be a reasonable assumption for Midland Units 1 and 2 both inside and outside of containment.

III. Longitudinal slot breaks at intermediate locations

We propose that longitudinal slot breaks not be postulated to occur at intermediate locations where the Regulatory Guide 1.46 criterion for a minimum number of break locations must be satisfied. This proposal is in accordance with section 3b(2)(b) of the Branch Technical Position MEB 3-1 and should be a reasonable assumption for Midland Units 1 and 2 both inside and outside containment.

- IV. Discussion of item 3 of A . Schwencer (NRC) to S. Howell (CPCo) letter of October 18, 1974, pertaining to Amendment 25 to the Midland PSAR.
- V. Moderate Energy Analysis

I.

Based on agreements reached in the meeting with the NRC on September 11, 1973, it is our understanding that moderate energy analysis is not required for Midland.

NRC FORM 195 (2-76)	• • • •	U.S. NUCLEAR REGULATORY CC 11SSIO	50-329/820
NRC DISTRIBUTIO	ON FOR PART 50 DO	OCKET MATERIAL	FILE NUMBER
TO: R.S. Boyd	FROM	Consumers Power Co.	DATE OF DOCUMENT
		Jackson, Michigan	- 3-29-76
		R.C. Bauman	DATE RECEIVED
DLETTER DNOTOR	IZED PROP	INPUT FORM	NUMBER OF COPIES RECEIVE
ORIGINAL QUNCLAS	SSIFIED	· · · · · · · · · ·	1
DESCRIPTION		ENCLOSURE	
Ltr. trans the following.		High Emergency Line W/Attached Meeting A	Breaker Analysis Crite genda
Note: Distrubution Per: N	In Creaker	(1 Cy. Received)	
	in. ordaker	· · State # Annihight	11-1-27-3 4× 11-
		DO NOT RELIG	777
		ACICIONTED	T
PLANT NAME: Midland #	1 8 2		
PLANT NAME: MIGIANG #	1 0 2		
영화 영화 이 관람은 것을 보았다.			
SAFETY			NITRA
ASSIGNED AD :	the second s		VIRO SAB 4-8-76
	Deyoung	ASSIGNED AD :	
BRANCH CHIEF :	Kniel	BRANCH CHIEF :	
BRANCH CHIEF : PROJECT MANAGER:	Kniel Crocker	BRANCH CHIEF : PROJECT MANAGER	
BRANCH CHIEF :	Kniel	BRANCH CHIEF :	:
BRANCH CHIEF : PROJECT MANAGER:	Kniel Crogker Service	BRANCH CHIEF : PROJECT MANAGTR LIC. ASST. :	•
BRANCH CHIEF : PROJECT MANAGER: LIC. ASST. :	Kniel Crogker Service	BRANCH CHIEF : PROJECT MANAGTR LIC. ASST. : ERNAL DISTRIBUTION	•
BRANCH CHIEF : PROJECT MANAGER: LIC. ASST. :	Kniel Crocker Service INTE SYSTEMS SAFET	BRANCH CHIEF : PROJECT MANAGTR LTC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS	ENVIRO TECH
BRANCH CHIEF : PROJECT MANAGER; LIC. ASST. : REG FILE (2) NRC PDR (2)	Kniel Crogker Service INTE SYSTEMS SAFET HEINEMAN	BRANCH CHIEF : PROJECT MANAGTR LTC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS TEDESCO	ENVIRO TECH ERNST
BRANCH CHIEF : PROJECT MANAGER; LIC. ASST. : REG FILE (2) NRC PDR (2) I & E (2)	Kniel Crocker Service INTE SYSTEMS SAFET	BRANCH CHIEF : PROJECT MANAGTR LTC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS TEDESCO BENAROYA	ENVIRO TECH ERNST BALLARD
BRANCH CHIEF : PROJECT MANAGER; LIC. ASST. : REG FILE (2) NRC PDR (2) I & E (2) OELD	Kniel Crogker Service INTE SYSTEMS 3AFET HEINEMAN SCHROEDER	BRANCH CHIEF : PROJECT MANAGUR LIC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS TEDESCO BENAROYA LAINCO	ENVIRO TECH ERNST
BRANCH CHIEF : PROJECT MANAGER: LIC. ASST. : REG FILP (2) NRC PDR (2) I & E (2) OELD GOSSICK & STAFF	Kniel Crogker Service INTE SYSTEMS 3AFET HEINEMAN SCHROEDER ENGINEERING	BRANCH CHIEF : PROJECT MANAGTR LTC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS TEDESCO BENAROYA	ENVIRO TECH ERNST BALLARD SPANGLER
BRANCH CHIEF : PROJECT MANAGER; LIC. ASST. : REG FILD(2) NRC PDR (2) I & E (2) OELD GOSSICK & STAFF MIPC	Kniel Crogker Service INTE SYSTEMS 3AFET HEINEMAN SCHROEDER ENGINEERING MACCARY	BRANCH CHIEF : PROJECT MANAGTR LTC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS TEDESCO BENAROYA LAINC IPPOLITO	ENVIRO TECH ERNST BALLARD SPANGLER SITE TECH
BRANCH CHIEF : PROJECT MANAGER; LIC. ASST. : REG FILD(2) NRC PDR (2) I & E (2) OELD GOSSICK & STAFF MIPC CASE	Kniel Crocker Service INTE SYSTEMS SAFET HEINEMAN SCHROEDER ENGINEERING MACCARY KNIGHT	BRANCH CHIEF : PROJECT MANAGTR LTC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS TEDESCO BENAROYA LAINC IPPOLITO OPERATING REACTORS	ENVIRO TECH ERNST BALLARD SPANGLER SITE TECH GAMMILL
BRANCH CHIEF : PROJECT MANAGER; LIC. ASST. : REG FILE (2) NRC PDR (2) I & E (2) OELD GOSSICK & STAFF MIPC CASE HANAUER	Kniel Crogker Service INTE SYSTEMS 3AFET HEINEMAN SCHROEDER ENGINEERING MACCARY KNIGHT SIHWEIL	BRANCH CHIEF : PROJECT MANAGTR LTC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS TEDESCO BENAROYA LAINC IPPOLITO	ENVIRO TECH ERNST BALLARD SPANGLER SITE TECH GAMMILL STEPP
BRANCH CHIEF : PROJECT MANAGER; LIC. ASST. : REG FILD(2) NRC PDR (2) I & E (2) OELD GOSSICK & STAFF MIPC CASE	Kniel Crocker Service INTE SYSTEMS SAFET HEINEMAN SCHROEDER ENGINEERING MACCARY KNIGHT	BRANCH CHIEF : PROJECT MANAGUR LTC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS TEDESCO BENAROYA LAINCO IPPOLITO OPERATING REACTORS STELLO	ENVIRO TECH ERNST BALLARD SPANGLER SITE TECH GAMMILL
BRANCH CHIEF : PROJECT MANAGER; LIC. ASST. : REG FILE (2) NRC PDR (2) I & E (2) OELD GOSSICK & STAFF MIPC CASE HARAUER HARLESS	Kniel Crocker Service INTE SYSTEMS 3AFET HEINEMAN SCHROEDER ENGINEERING MACCARY KNIGHT SIHWEIL PAWLICKI	BRANCH CHIEF : PROJECT MANAGUR LIC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS TEDESCO BENAROYA LAINC IPPOLITO OPERATING REACTORS STELLO OPERATING TECH	ENVIRO TECH ERNST BALLARD SPANGLER SITE TECH GAMMILL STEPP HULMAN
BRANCH CHIEF : PROJECT MANAGER; LIC. ASST. : REG FILE (2) NRC PDR (2) I & E (2) OELD GOSSICK & STAFF MIPC CASE HANAUER HARLESS PROJECT MANAGEMENT	Kniel Crocker Service INTE SYSTEMS 3AFET HEINEMAN SCHROEDER ENGINEERING MACCARY KNIGHT SIHWEIL PAWLICKI REACTOR SAFET	BRANCH CHIEF : PROJECT MANAGUR LIC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS TEDESCO BENAROYA LAING IPPOLITO OPERATING REACTORS STELLO OPERATING TECH Y EISENHUT	ENVIRO TECH ERNST BALLARD SPANGLER SITE TECH GAMMILL STEPP HULMAN SITE ANALYSIS
BRANCH CHIEF : PROJECT MANAGER; LIC. ASST. : REG_FILD(2) NRC PDR (2) I & E (2) OELD GOSSICK & STAFF MIPC CASE HARAUER HARLESS PROJECT MANAGEMENT BOYD	Kniel Crocker Service INTE SYSTEMS 3AFET HEINEMAN SCHROEDER ENGINEERING MACCARY KNIGHT SIHWEIL PAWLICKI REACTOR SAFET ROSS	BRANCH CHIEF : PROJECT MANAGTR LTC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS TEDESCO BENAROYA LAINC IPPOLITO OPERATING REACTORS STELLO OPERATING TECH Y EISENHUT SHAO	ENVIRO TECH ERNST BALLARD SPANGLER SITE TECH GAMMILL STEPP HULMAN SITE ANALYSIS VOLLMER
BRANCH CHIEF : PROJECT MANAGER; LIC. ASST. : REG FILD(2) NRC PDR (2) I & E (2) OELD GOSSICK & STAFF MIPC CASE HANAUER HARLESS PROJECT MANAGEMENT BOYD P. COLLINS	Kniel Crocker Service INTE SYSTEMS 3AFET HEINEMAN SCHROEDER ENGINEERING MACCARY KNIGHT SIHWEIL PAWLICKI REACTOR SAFET ROSS NOVAK	BRANCH CHIEF : PROJECT MANAGUR LTC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS TEDESCO BENAROYA LAINCE IPPOLITO OPERATING REACTORS STELLO OPERATING TECH Y EISENHUT SHAO BAER	ENVIRO TECH ERNST BALLARD SPANGLER SITE TECH GAMMILL STEPP HULMAN SITE ANALYSIS VOLLMER BUNCH
BRANCH CHIEF : PROJECT MANAGER; LIC. ASST. : REG FILE (2) NRC PDR (2) I & E (2) OELD GOSSICK & STAFF MIPC CASE HANAUER HARLESS PROJECT MANAGEMENT BOYD P. COLLINS HOUSTON	Kniel Crocker Service INTE SYSTEMS 3AFET HEINEMAN SCHROEDER ENGINEERING MACCARY KNIGHT SIHWEIL PAWLICKI REACTOR SAFET ROSS NOVAK ROSZTOCZY	BRANCH CHIEF : PROJECT MANAGUR LTC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS TEDESCO BENAROYA LAINC IPPOLITO OPERATING REACTORS STELLO OPERATING TECH Y EISENHUT SHAO BAER SCHWENCER	ENVIRO TECH ERNST BALLARD SPANGLER SITE TECH GAMMILL STEPP HULMAN SITE ANALYSIS VOLLMER BUNCH J. COLLINS
BRANCH CHIEF : PROJECT MANAGER; LIC. ASST. : REG FILE (2) NRC PDR (2) I & E (2) OELD GOSSICK & STAFF MIPC CASE HANAUER HARLESS PROJECT MANAGEMENT BOYD P. COLLINS HOUSTON PETERSON	Kniel Crocker Service INTE SYSTEMS 3AFET HEINEMAN SCHROEDER ENGINEERING MACCARY KNIGHT SIHWEIL PAWLICKI REACTOR SAFET ROSS NOVAK	BRANCH CHIEF : PROJECT MANAGUR LTC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS TEDESCO BENAROYA LAINCE IPPOLITO OPERATING REACTORS STELLO OPERATING TECH Y EISENHUT SHAO BAER	ENVIRO TECH ERNST BALLARD SPANGLER SITE TECH GAMMILL STEPP HULMAN SITE ANALYSIS VOLLMER BUNCH
BRANCH CHIEF : PROJECT MANAGER; LIC. ASST. : REG FILE (2) NRC PDR (2) I & E (2) OELD GOSSICK & STAFF MIPC CASE HARAUER HARLESS PROJECT MANAGEMENT BOYD P. COLLINS HOUSTON PETERSON MELTZ	Kniel Crocker Service INTE SYSTEMS 3AFET HEINEMAN SCHROEDER ENGINEERING MACCARY KNIGHT SIHWEIL PAWLICKI REACTOR SAFET ROSS NOVAK ROSZTOCZY CHECK	BRANCH CHIEF : PROJECT MANAGUR LIC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS TEDESCO BENAROYA LAINC IPPOLITO OPERATING REACTORS STELLO OPERATING TECH Y EISENHUT SHAO BAER SCHWENCER GRIMES	ENVIRO TECH ERNST BALLARD SPANGLER SITE TECH GAMMILL STEPP HULMAN SITE ANALYSIS VOLLMER BUNCH J. COLLINS KREGER
BRANCH CHIEF : PROJECT MANAGER; LIC. ASST. : REG FILE(2) NRC PDR (2) I & E (2) OELD GOSSICK & STAFF MIPC CASE HANAUER HARLESS PROJECT MANAGEMENT BOYD P. COLLINS HOUSTON PETERSON MELTZ HELTEMES	Kniel Crocker Service INTE SYSTEMS 3AFET HEINEMAN SCHROEDER ENGINEERING MACCARY KNIGHT SIHWEIL PAWLICKI REACTOR SAFET ROSS NOVAK ROSZTOCZY CHECK AT & I	BRANCH CHIEF : PROJECT MANAGUR LIC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS TEDESCO BENAROYA LAING IPPOLITO OPERATING REACTORS STELLO OPERATING TECH Y EISENHUT SHAO BAER SCHWENCER GRIMES SITE SAFETY & ENVI	ENVIRO TECH ERNST BALLARD SPANGLER SITE TECH GAMMILL STEPP HULMAN SITE ANALYSIS VOLLMER BUNCH J. COLLINS KREGER
BRANCH CHIEF : PROJECT MANAGER; LIC. ASST. : REG FILE (2) NRC PDR (2) I & E (2) OELD GOSSICK & STAFF MIPC CASE HARAUER HARLESS PROJECT MANAGEMENT BOYD P. COLLINS HOUSTON PETERSON MELTZ	Kniel Crocker Service INTE SYSTEMS 3AFET HEINEMAN SCHROEDER ENGINEERING MACCARY KNIGHT SIHWEIL PAWLICKI REACTOR SAFET ROSS NOVAK ROSZTOCZY CHECK AT & I SALTZMAN	BRANCH CHIEF : PROJECT MANAGUR LTC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS TEDESCO BENAROYA LAINCE IPPOLITO OPERATING REACTORS STELLO OPERATING TECH Y EISENHUT SHAO BAER SCHWENCER GRIMES SITE SAFETY & ENVI ANALYSIS	ENVIRO TECH ERNST BALLARD SPANGLER SITE TECH GAMMILL STEPP HULMAN SITE ANALYSIS VOLLMER BUNCH J. COLLINS KREGER
BRANCH CHIEF : PROJECT MANAGER; LIC. ASST. : REG FILE(2) NRC PDR (2) I & E (2) OELD GOSSICK & STAFF MIPC CASE HANAUER HARLESS PROJECT MANAGEMENT BOYD P. COLLINS HOUSTON PETERSON MELTZ HELTEMES	Kniel Crocker Service INTE SYSTEMS 3AFET HEINEMAN SCHROEDER ENGINEERING MACCARY KNIGHT SIHWEIL PAWLICKI REACTOR SAFET ROSS NOVAK ROSZTOCZY CHECK AT & I SALTZMAN RUTBERG	BRANCH CHIEF : PROJECT MANAGUR LTC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS TEDESCO BENAROYA LAINCE IPPOLITO OPERATING REACTORS STELLO OPERATING TECH Y EISENHUT SHAO BAER SCHWENCER GRIMES SITE SAFETY & ENVI ANALYSIS DENTON & MULLER	ENVIRO TECH ERNST BALLARD SPANGLER SITE TECH GAMMILL STEPP HULMAN SITE ANALYSIS VOLLMER BUNCH J. COLLINS KREGER
BRANCH CHIEF : PROJECT MANAGER; LIC. ASST. : REG FILE (2) NRC PDR (2) I & E (2) OELD GOSSICK & STAFF MIPC CASE HARAUER HARLESS PROJECT MANAGEMENT BOYD P. COLLINS HOUSTON PETERSON MELTZ HELTEMES SKOVHOLT	Kniel Crocker Service INTE SYSTEMS 3AFET HEINEMAN SCHROEDER ENGINEERING MACCARY KNIGHT SIHWEIL PAWLICKI REACTOR SAFET ROSS NOVAK ROSZTOCZY CHECK AT & I SALTZMAN RUTBERG EXTERNAL DISTRIE	BRANCH CHIEF : PROJECT MANAGUR LTC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS TEDESCO BENAROYA LAINCE IPPOLITO OPERATING REACTORS STELLO OPERATING TECH Y EISENHUT SHAO BAER SCHWENCER GRIMES SITE SAFETY & ENVI ANALYSIS DENTON & MULLER BUTION	ENVIRO TECH ERNST BALLARD SPANGLER SITE TECH GAMMILL STEPP HULMAN SITE ANALYSIS VOLLMER BUNCH J. COLLINS KREGER RO CONTROL NUMBER
BRANCH CHIEF : PROJECT MANAGER; LIC. ASST. : REG FILE (2) NRC PDR (2) I & E (2) OELD GOSSICK & STAFF MIPC CASE HARAUER HARLESS PROJECT MANAGEMENT BOYD P. COLLINS HOUSTON PETERSON MELTZ HELTEMES SKOVHOLT LPDR: Midland, MI	Kniel Crocker Service INTE SYSTEMS 3AFET HEINEMAN SCHROEDER ENGINEERING MACCARY KNIGHT SIHWEIL PAWLICKI REACTOR SAFET ROSS NOVAK ROSZTOCZY CHECK AT & I SALTZMAN RUTBERG EXTERNAL DISTRIE NATL LAB	BRANCH CHIEF : PROJECT MANAGUR LTC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS TEDESCO BENAROYA LAINC IPPOLITO OPERATING REACTORS STELLO OPERATING TECH Y EISENHUT SHAO BAER SCHWENCER GRIMES SITE SAFETY & ENVI ANALYSIS DENTON & MULLER BUTION BROOKHAVEN NATL LAI	ENVIRO TECH ERNST BALLARD SPANGLER SITE TECH GAMMILL STEPP HULMAN SITE ANALYSIS VOLLMER BUNCH J. COLLINS KREGER RO CONTROL NUMBER
BRANCH CHIEF : PROJECT MANAGER; LIC. ASST. : REG FILE(2) NRC PDR (2) I & E (2) OELD GOSSICK & STAFF MIPC CASE HANAUER HARLESS PROJECT MANAGEMENT BOYD P. COLLINS HOUSTON PETERSON MELTZ HELTEMES SKOVHOLT LPDR: Midland, MI TIC	Kniel Crocker Service INTE SYSTEMS 3AFET HEINEMAN SCHROEDER ENGINEERING MACCARY KNIGHT SIHWEIL PAWLICKI REACTOR SAFET ROSS NOVAK ROSZTOCZY CHECK AT & I SALTZMAN RUTBERG EXTERNAL DISTRIE NATL LAB REG. V-IE	BRANCH CHIEF : PROJECT MANAGUR LTC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS TEDESCO BENAROYA LAINCE IPPOLITO OPERATING REACTORS STELLO OPERATING TECH Y EISENHUT SHAO BAER SCHWENCER GRIMES SITE SAFETY & ENVI ANALYSIS DENTON & MULLER BUTION	ENVIRO TECH ERNST BALLARD SPANGLER SITE TECH GAMMILL STEPP HULMAN SITE ANALYSIS VOLLMER BUNCH J. COLLINS KREGER RO CONTROL NUMBER
BRANCH CHIEF : PROJECT MANAGER; LIC. ASST. : REG FILE(2) NRC PDR (2) I & E (2) OELD GOSSICK & STAFF MIPC CASE HANAUER HARLESS PROJECT MANAGEMENT BOYD P. COLLINS HOUSTON PETERSON MELTZ HELTEMES SKOVHOLT LPDR: Midland, MI TIC NSIC	Kniel Crocker Service INTE SYSTEMS 3AFET HEINEMAN SCHROEDER ENGINEERING MACCARY KNIGHT SIHWEIL PAWLICKI REACTOR SAFET ROSS NOVAK ROSZTOCZY CHECK AT & I SALTZMAN RUTBERG EXTERNAL DISTRIE NATL LAB REG. V-IE LA FDR	BRANCH CHIEF : PROJECT MANAGUR LTC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS TEDESCO BENAROYA LAINC IPPOLITO OPERATING REACTORS STELLO OPERATING TECH Y EISENHUT SHAO BAER SCHWENCER GRIMES SITE SAFETY & ENVI ANALYSIS DENTON & MULLER BUTION BROOKHAVEN NATL LAI	ENVIRO TECH ERNST BALLARD SPANGLER SITE TECH GAMMILL STEPP HULMAN SITE ANALYSIS VOLLMER BUNCH J. COLLINS KREGER RC CONTROL NUMBER B
BRANCH CHIEF : PROJECT MANAGER; LIC. ASST. : REG FILE(2) NRC PDR (2) I & E (2) OELD GOSSICK & STAFF MIPC CASE HANAUER HARLESS PROJECT MANAGEMENT BOYD P. COLLINS HOUSTON PETERSON MELTZ HELTEMES SKOVHOLT LPDR: Midland, MI TIC	Kniel Crocker Service INTE SYSTEMS 3AFET HEINEMAN SCHROEDER ENGINEERING MACCARY KNIGHT SIHWEIL PAWLICKI REACTOR SAFET ROSS NOVAK ROSZTOCZY CHECK AT & I SALTZMAN RUTBERG EXTERNAL DISTRIE NATL LAB REG. V-IE	BRANCH CHIEF : PROJECT MANAGUR LTC. ASST. : ERNAL DISTRIBUTION Y PLANT SYSTEMS TEDESCO BENAROYA LAINC IPPOLITO OPERATING REACTORS STELLO OPERATING TECH Y EISENHUT SHAO BAER SCHWENCER GRIMES SITE SAFETY & ENVI ANALYSIS DENTON & MULLER BUTION BROOKHAVEN NATL LAI	ENVIRO TECH ERNST BALLARD SPANGLER SITE TECH GAMMILL STEPP HULMAN SITE ANALYSIS VOLLMER BUNCH J. COLLINS KREGER RC CONTROL NUMBER B

NAC FORM 195 (2-76)
