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 RECIP. NAME RECIPIENT AFFILIATION
 MURLEY, T.E. Document Control Branch (Document Control Desk)

SUBJECT: Application for amends to Licenses DPR-58 & DPR-74, deleting
 TS Table 3.6-1, "Containment Isolation Valves", per guidance
 provided in GL 91-08, "Removal of Component Lists from TS."
 Lists of valves will be incorporated into plant procedures. (Tech Spec)

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NOTES: See Proposed change to Tech Specs.

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AEP:NRG:1178

Donald C. Cook Nuclear Plant Units 1 and 2
Docket Nos. 50-315 and 50-316
License Nos. DPR-58 and DPR-74
REMOVAL OF CONTAINMENT ISOLATION VALVE LIST FROM
TECHNICAL SPECIFICATIONS (GENERIC LETTER 91-08)

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D. C. 20555

Attn: T. E. Murley

September 24, 1992

Dear Dr. Murley:

This letter and its attachments constitute an application for amendment to the Technical Specifications (T/Ss) for the Donald C. Cook Nuclear Plant Units 1 and 2. Specifically, we are proposing to delete Table 3.6-1, "Containment Isolation Valves," and make other associated changes to the T/Ss in accordance with the guidance provided in Generic Letter 91-08, "Removal of Component Lists from Technical Specifications," dated May 6, 1991. A list of containment isolation valves will be incorporated into Cook Nuclear Plant procedures prior to the 1994 refueling outages. At that time, the procedures will be available for your review. We believe that this will address Unresolved Item 316/90006-01.

Attachment 1 provides a detailed description of the proposed changes, the justification for the changes, and our determination of no significant hazards consideration performed pursuant to 10 CFR 50.92. Attachment 2 contains the existing T/Ss pages marked to reflect the proposed changes. Attachment 3 contains the proposed T/Ss pages.

We believe that the proposed changes will not result in (1) a significant change in the types of any effluent that may be released offsite, or (2) a significant increase in individual or cumulative occupational radiation exposure.

These proposed changes have been reviewed by the Plant Nuclear Safety Review Committee and the Nuclear Safety and Design Review Committee.

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Dr. T. E. Murley


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AEP:NRC:1178

In compliance with the requirements of 10 CFR 50.91 (b)(1), copies of this letter and its attachments have been transmitted to the Michigan Public Service Commission and the Michigan Department of Public Health.

This letter is submitted pursuant to 10 CFR 50.54(f) and, as such, an oath statement is enclosed.

Sincerely,



E. E. Fitzpatrick
Vice President

rag

Attachments

cc: D. H. Williams, Jr.
A. A. Blind - Bridgman
J. R. Padgett
G. Charnoff
NFEM Section Chief
A. B. Davis - Region III
NRC Resident Inspector - Bridgman

STATE OF OHIO)
COUNTY OF FRANKLIN)

E. E. Fitzpatrick, being duly sworn, deposes and says that he is the Vice President of licensee Indiana Michigan Power Company, that he has read the foregoing Request for Removal of Containment Isolation Valve List From Technical Specifications and knows the contents thereof; and that said contents are true to the best of his knowledge and belief.

E E Fitzpatrick

Subscribed and sworn to before me this 25th

day of September, 19 92.

Rita D. Hill
NOTARY PUBLIC

RITA D. HILL
NOTARY PUBLIC, STATE OF OHIO
MY COMMISSION EXPIRES 6-28-94

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TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
12.3.1	<u>INTRODUCTION</u>	12.3-1
12.3.1.1	Purpose	12.3-2
12.3.1.2	Objective	12.3-2
12.3.1.3	Scope	12.3-2
12.3.1.4	Initiation of Emergency Plan	12.3-2
12.3.1.5	Definitions	12.3-3
12.3.2	<u>ORGANIZATIONAL CONTROL</u>	12.3-9
12.3.2.1	Organizational Control	12.3-10
12.3.3	<u>D. C. COOK EMERGENCY RESPONSE ORGANIZATION</u>	12.3-12
12.3.3.1	Normal On-Site Operating Organization	12.3-13
12.3.3.1.1	Plant Manager	12.3-13
12.3.3.1.2	Assistant Plant Manager - Production	12.3-13
12.3.3.1.3	Assistant Plant Manager - Technical Support	12.3-14
12.3.3.1.4	Assistant Plant Manager - Projects	12.3-14
12.3.3.1.5	Licensing Activity Coordinator	12.3-14
12.3.3.1.6	Administrative Superintendent	12.3-14
12.3.3.1.7	Maintenance Superintendent	12.3-15
12.3.3.1.8	Operations Superintendent	12.3-15
12.3.3.1.9	General Supervisor Scheduling	12.3-16
12.3.3.1.10	Design Changes Superintendent	12.3-16
12.3.3.1.11	Safety and Assessment Superintendent	12.3-16
12.3.3.1.12	Stores Supervisor	12.3-16

TABLE OF CONTENTS (cont'd.)

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
	12.3.3.1.13 Superintendent, Plant Engineering	12.3-17
	12.3.3.1.14 Technical - Physical Sciences Superintendent	12.3-17
12.3.3.2	Emergency Organization	12.3-17
	12.3.3.2.1 Site Emergency Coordinator	12.3-18
	12.3.3.2.2 Shift Technical Advisor	12.3-18
	12.3.3.2.3 Security Director	12.3-18
	12.3.3.2.4 Assistant Shift Supervisor	12.3-19
	12.3.3.2.5 Operations Staging Manager	12.3-19
	12.3.3.2.6 Skill Supervisors	12.3-19
	12.3.3.2.7 Radiation Protection Director	12.3-20
	12.3.3.2.8 Operations Staging Area Communicator	12.3-20
	12.3.3.2.9 Damage Control Team	12.3-20
	12.3.3.2.10 Re-entry and Rescue Team	12.3-20
	12.3.3.2.11 Onsite Radiation Monitoring Team	12.3-21
	12.3.3.2.12 Technical Director	12.3-21
	12.3.3.2.13 Plant Evaluation Team	12.3-22
	12.3.3.2.14 Administrative Coordinator	12.3-22
	12.3.3.2.15 Radiological Assessment Coordinator	12.3-23
	12.3.3.2.16 Administrative Support Personnel (TSC)	12.3-23
	12.3.3.2.17 Emergency Operations Facility Manager	12.3-23

TABLE OF CONTENTS (cont'd.)

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
	12.3.3.3.11 Corporate Support Group Manager	12.3-31
	12.3.3.3.12 Administration and Logistics Manager	12.3-31
12.3.3.4	Emergency Public Information Organization	12.3-32
	12.3.3.4.1 Emergency News Center Manager	12.3-32
	12.3.3.4.2 Emergency News Center Staff	12.3-33
	12.3.3.4.3 I&M Public Affairs Director	12.3-33
	12.3.3.4.4 JPIC Administrator	12.3-33
	12.3.3.4.5 Utility Spokesperson	12.3-33
	12.3.3.4.6 Benton Harbor - St. Joseph Division Administrative Assistant	12.3-33
	12.3.3.4.7 Rumor Control Center Coordinator	12.3-33
	12.3.3.4.8 Support Office Coordinator	12.3-34
12.3.3.5	Off-Site Group	12.3-34
	12.3.3.5.1 Berrien County Sheriff's Department	12.3-34
	12.3.3.5.2 State of Michigan	12.3-35
	12.3.3.5.3 Federal Government	12.3-39
	12.3.3.5.4 Fire Department	12.3-40
12.3.3.6	Overall Organization & Communication	12.3-40
12.3.3.7	Nuclear Transportation Accidents	12.3-40
12.3.3.8	Nuclear Power Plant Accidents	12.3-41
12.3.4	<u>EMERGENCY RESPONSE SUPPORT AND RESOURCES</u>	12.3-57
	12.3.4.1 Federal Radiological Assistance	12.3-58
	12.3.4.2 Off-Site Liaisons	12.3-59

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Donald C. Cook Nuclear Plant Emergency Plan

12.3.1 Introduction

12.3.1.1 Purpose

The purpose of the Donald C. Cook Nuclear Plant Emergency Plan is to fulfill the requirements as set forth in 10 CFR 50 and Appendix E and the planning objectives set forth in NUREG-0654/-FEMA-REP-1 Revision 1.

12.3.1.2 Objective

The Donald C. Cook Nuclear Plant Emergency Plan has the fundamental objective of protecting the health and safety of the general public, persons temporarily visiting or assigned to the reactor facility, and employees of the plant.

12.3.1.3 Scope

The specific details for the implementation of this emergency plan are incorporated in the Donald C. Cook Emergency Plan Procedures, the American Electric Power Service Corporation (AEPSC) Emergency Response Manual, and the I&M Emergency Response Manual pursuant to the requirements specified in Section

12.3.1.1. The Emergency Plan Procedures include or reference procedures developed for plant operating, radiological, security and administrative functions as necessary in order to ensure that all requirements are adequately defined. Additionally the AEPSC Emergency Response Manual and the I&M Emergency Response Manual describe the duties and responsibilities of both AEPSC and I&M personnel in providing support to the Plant Staff in emergency situations. Appendix A to this Plan contains a list of Plant Emergency Plan Procedures while Appendix B to this Plan contains an overview of both the AEPSC Emergency Response Manual and the I&M Emergency Response Manual. This plan is primarily concerned with an accidental release of radioactive material, but it is also concerned with non-nuclear major accidents which could prove hazardous to the safe operation of the plant.

12.3.1.4 Initiation of the Emergency Plan

During emergency conditions, the Shift Supervisor is responsible for the initiation of the Emergency Plan and Emergency Plan Procedures. The Shift Supervisor's first responsibility upon being alerted to an abnormal situation is to immediately take whatever measures are necessary to return to and maintain the safe condition of the plant. In the event that the Shift Supervisor is not immediately available, the initiation of this plan is the responsibility of the senior individual present possessing an NRC license.

operations centers established by State/County authorities. This area contains access to instrumentation and necessary reference material for the plant management and support personnel.

The primary function of the TSC is to provide an area in close proximity to the control room from which the plant operators can receive technical support and assistance from personnel who have the experience and expertise in nuclear plant operations, maintenance, safety and design. Their function is to mitigate the cause(s) of a nuclear incident and during the short-term activation provide for off-site dose calculations, act as a communication center to off-site response organizations and act as a data gathering center for plant parameters.

Access to the Technical Support Center will typically be limited immediately to those individuals listed in Figure 12-6, and as the situation demands, those individuals required by the Plant Manager or his alternate.

19. Off-Site Monitoring Teams. These are teams released to monitor the radiation levels anywhere outside of the protected area.

12.3.3.1.3 Assistant Plant Manager - Technical Support

The Assistant Plant Manager - Technical Support is responsible to the Plant Manager for advising him on plant policies and to assist in providing continuity between all plant departments for the safe and efficient operation of the Cook Nuclear Plant. In the absence of the Plant Manager, one of the Assistant Plant Managers will be assigned to be in charge of the plant. The Assistant Plant Manager - Technical Support is responsible for the following major functions:

- (1) Assist in planning, organizing, coordinating, directing, and controlling the activities of department heads in effecting harmonious, efficient, safe, and economical operation of the plant, with primary responsibilities for the Technical Physical Science, Technical Engineering and Computer Sciences Departments and Emergency Planning. | 8
- (2) Serve as Chairman of the PNSRC Subcommittee on Procedures. | 8

12.3.3.1.4 Assistant Plant Manager - Projects

The Assistant Plant Manager - Projects is responsible to the Plant Manager for advising him on plant policies and to assist in providing continuity between all plant departments for the safe and efficient operation of the Cook Nuclear Plant. In the absence of the Plant Manager, one of the Assistant Plant Managers will be assigned to be in charge of the plant. The Assistant Plant Manager - Projects is responsible for the following: | 8

Assist in planning, organizing, coordinating, directing and controlling the activities of department heads in effecting harmonious, efficient, safe and economical operation of the plant with primary responsibilities for modification, pre-outage and outage activities. | 8

12.3.3.1.5 Licensing Activity Coordinator

The Licensing Activity Coordinator is responsible to the Plant Manager for organizing licensing activities at the plant level and to ensure earliest and continuous plant involvement in the licensing process.

12.3.3.1.6 Administrative Superintendent

The Administrative Superintendent reports to the Plant Manager. He is responsible for the development and efficient implementation of all site centralized Training activities, and for administration of the facility's NRC-approved physical Security Program. The Administrative Superintendent is responsible for the following specific functions: | 8

- (1) Administer the centralized facility Training complex, simulator, and programs contained therein, assuring that program development is consistent with the systematic approach to training, INPO standards, regulatory and corporate requirements.

- (2) Administer the physical Security Program in compliance with regulatory standards, Modified Amended Security Plan, and Company policy.

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12.3.3.1.7 Maintenance Superintendent

The Maintenance Superintendent is responsible to the Assistant Plant Manager - Production for supervising, planning, and directing the activities related to the maintenance and installation of all power plant equipment, structures, grounds, and yards; for preparing plant maintenance budgets, construction budgets, improvement requisitions, and work orders; for preparation and maintenance of records and reports pertinent to equipment maintenance, cost histories, regulatory agency requirements; for administering contracts and scheduling outside contractors' work forces; for advising plant management on matters relating thereto; and for coordinating these activities with related plant and system departments.

12.3.3.1.8 Operations Superintendent

The Operations Superintendent reports directly to the Assistant Plant Manager - Production, and is responsible for enforcement and coordination of plant regulations, procedures, policies, and objectives to assure safety, efficiency, and continuity in the operation of a nuclear generating station within the limits of the operating license and the Technical Specifications; formulates policies and procedures related thereto, supervises coordination of Operations Department work with other plant departments, Indiana Michigan Power Company, and American Electric Power Service Corporation. The Operations Superintendent is responsible for the following specific functions:

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- (1) Plan, schedule, and direct the activities relating to the operation of a nuclear generating station and associated switchyards; cooperate in planning and scheduling of work and procedures for refueling and maintenance of the nuclear generating units; direct and coordinate loading of the nuclear generating units.
- (2) Review reports and records and direct general inspection of operating conditions of plant equipment and investigate any abnormal conditions, making recommendations for repairs. Establish and administer equipment clearance procedures consistent with company, plant, and radiation protection standards; authorize and arrange for equipment outages to meet normal or emergency conditions. Provide the shift operating crews with appropriate procedures and instructions to assist them in operating the plant safely and efficiently.

- (3) Approve operator training programs administered by the Training Department designed to provide operating personnel with the knowledge and skill required for safe operation of the facility and for obtaining and holding NRC operator license. Coordinate training programs in plant safety and emergency procedures for Operating Department personnel to assure that each shift group will function properly in the event of injury of personnel, fire, nuclear incident, or civil disorder.
- (4) Secure a facility Senior Reactor Operator's license within two years of incumbency if he has never held one. He shall not be required to maintain the license.

12.3.3.1.9 General Supervisor Scheduling

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The General Supervisor Scheduling reports to the Assistant Plant Manager - Projects. He is responsible for the advanced planning of scheduled and forced outages, including the scheduling and coordination of all plant activities associated with refueling, preventive maintenance, corrective maintenance, equipment overhaul, Technical Specification surveillances, and design change installations.

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12.3.3.1.10 Design Changes Superintendent

The Design Changes Superintendent reports to the Assistant Plant Manager - Projects. He is responsible for the coordination of all plant activities associated with the initiation, review, approval, engineering, design, production, examination, inspection, test, turnover, and closeout of design changes.

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12.3.3.1.11 Safety and Assessment Superintendent

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The Safety and Assessment Superintendent reports to the Plant Manager for the development and implementation of an effective Safety program. This encompasses, but is not limited to, the planning and directing of quality control activities to assure that industry codes, Nuclear Regulatory regulations, and company instructions and policies regarding quality control for the nuclear generating station are enforced, and that these activities are properly documented.

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12.3.3.1.12 Stores Supervisor

The Stores Supervisor reports to the Planning Superintendent. The Stores Department, under the direction of the Stores Supervisor, is responsible for the procurement, receiving, quality control receipt inspection, storage, handling, issue, maintaining stock levels, sale, and overall control of stores nuclear and standard grade material, components, and equipment, providing material service and support to all plant departments in accordance with policies and procedures required by AEP Purchasing and Stores, AEP Quality Assurance, and Nuclear Regulatory Commission, which are administered and enforced by the Stores organization in a total effort to ensure safety and plant reliability.

12.3.3.1.13 Superintendent, Plant Engineering

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The Superintendent, Plant Engineering is responsible to the Assistant Plant Manager - Technical Support to provide overall planning and direction of engineering and technical studies, nuclear fuel management, and equipment performance. These activities support daily on-site operations in a safe, reliable, and efficient manner in accordance with all corporate policies, applicable laws, regulations, licenses, and Technical Specification requirements.

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12.3.3.1.14 Technical - Physical Sciences Superintendent

The Technical-Physical Sciences Superintendent reports to the Assistant Plant Manager - Technical Support. He is responsible to provide technical and engineering services in the fields of chemistry, radiation protection, ALARA, radioactive material control, and environmental in support of the safe operation of the plant and the health and safety of the employees and the public.

12.3.3.2 Emergency Organization

The Donald C. Cook Plant Emergency Organization is presented in Figure 12-5 and 12-6. The extent to which the Emergency Organization is manned would be dependent upon the emergency classification and the discretion of the Site Emergency Coordinator. For an Unusual Event only the Control Room will be manned. For an Alert, the TSC, OSC, IAG, and EOF would be activated and manned. All emergency response facilities will be activated during a Site Area or General Emergency. The Donald C. Cook emergency organization is capable of continuous 24-hour operations for a protracted period.

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The authority for initiation of the emergency plan is delegated to the senior supervisor of the on-duty operating shift (e.g., the Shift Supervisor). He is the individual responsible for the emergency response functions until relieved by the Plant Manager (or Alternate).

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In the event of an emergency situation, the Shift Supervisor (or Senior NRC licensed individual) will call upon any additional members of the Plant Organization as shown in Figure 12-4. These additional individuals, along with on-duty operating shift, form the Plant Emergency Response Organization. The initiation of any aspects of this emergency plan allows for the use of the total plant organization shown in Figure 12-4, at the discretion of the Shift Supervisor.

The major assignments of the on-duty operating shift and the supplemental personnel in the Emergency Plant Organization are delineated in Table 12-1.



12.3.3.2.13 Plant Evaluation Team

The Plant Evaluation Team operates out of the Technical Support Center and is made up of individuals from a variety of disciplines including Nuclear Engineering, Environmental, Chemistry, Control and Instrumentation, Performance Engineering, Shift Technical Advisors, Operations, Computer and Training.

The Plant Evaluation Team reports to the Technical Director and is responsible for but not limited to the following:

- (1) Providing an independent technical analysis of plant conditions;
- (2) Developing corrective action recommendations;
- (3) Providing technical assistance to operations personnel when requested;
- (4) Responding to queries from off-site agencies, as directed by the Technical Director; and
- (5) Maintaining contact with the Initial Assessment Group in Columbus, Ohio.

12.3.3.2.14 Administrative Coordinator

Upon arrival at the Technical Support Center the Accounting Supervisor assumes the position of the Administrative Coordinator. The Administrative Coordinator reports directly to the Technical Director and is responsible for but not limited to the following:

- (1) Establishing a chronological history log of events that occur by assigning a scribe to maintain the plant status board in the Plant Evaluation Team Room.
- (2) Compiling information to be reported off-site, coordinating input from the Plant Evaluation Team and Radiological Assessment Coordinator, and obtaining the approval of the Technical Director prior to release of any information off-site.
- (3) Providing communicators for establishing communication with the Initial Assessment Group, Emergency Operations Facility, Operations Staging Area and the Emergency News Center.

Alternates to the Accounting Supervisor are:

- (1) Budgeting Coordinator.
- (2) Nuclear Records Management Supervisor.

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1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the integrity of the financial system and for the ability to detect and prevent fraud.

2. The second part of the document outlines the specific requirements for record-keeping. It states that all transactions must be recorded in a timely and accurate manner, and that the records must be maintained for a minimum of five years.

3. The third part of the document discusses the role of the auditor in verifying the accuracy of the records. It states that the auditor must perform a thorough review of the records to ensure that they are complete and accurate, and that any discrepancies must be identified and resolved.

4. The fourth part of the document discusses the consequences of failing to maintain accurate records. It states that failure to comply with the requirements may result in penalties, including fines and imprisonment, and may also lead to the suspension of the individual's license to practice.

5. The fifth part of the document discusses the importance of training and education for individuals involved in record-keeping. It states that individuals must be properly trained and educated to ensure that they are able to maintain accurate records and to detect and prevent fraud.

6. The sixth part of the document discusses the importance of internal controls in maintaining accurate records. It states that individuals must implement and maintain effective internal controls to ensure that all transactions are properly recorded and that the records are accurate.

7. The seventh part of the document discusses the importance of regular audits in maintaining accurate records. It states that individuals must conduct regular audits of their records to ensure that they are complete and accurate, and that any discrepancies must be identified and resolved.

8. The eighth part of the document discusses the importance of transparency in maintaining accurate records. It states that individuals must be transparent in their record-keeping practices and must provide access to the records to the appropriate authorities.

9. The ninth part of the document discusses the importance of confidentiality in maintaining accurate records. It states that individuals must ensure that the records are kept confidential and that they are not disclosed to unauthorized individuals.

10. The tenth part of the document discusses the importance of integrity in maintaining accurate records. It states that individuals must maintain the highest level of integrity in their record-keeping practices and must not engage in any fraudulent or unethical behavior.

12.3.3.2.15 Radiological Assessment Coordinator

Upon arrival at the Technical Support Center a Radiation Protection Engineer or Supervisor assumes the position of the Radiological Assessment Coordinator. The Radiological Assessment Coordinator reports to the Technical Director and is responsible for but not limited to performing analysis of on-site radiological conditions and development of appropriate protective actions for on-site response teams.

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Alternates to the Radiation Protection Engineer are members of the Technical - Physical Science Department or Training Staff.

12.3.3.2.16 Administrative Support Personnel (TSC)

Additional personnel needed to provide administrative support to the Technical Support Center include Runners, Scribes, Communicators, Telecopy Operators and Boardwriters. The Plant Emergency Plan Procedures designate individuals to fill the Administrative Support positions. These procedures also define the responsibilities and actions of the Administrative Support Personnel.

12.3.3.2.17 Emergency Operations Facility Manager

Upon arrival at the Emergency Operations Facility (EOF) the Superintendent - Technical Physical Science assumes the position of the EOF Manager. The EOF Manager reports directly to the Site Emergency Coordinator and is responsible for but not limited to the following:

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- (1) Oversee activation of the EOF.
- (2) Ensure the EOF assumes responsibility for communications with off-site organizations.
- (3) Ensure the EOF assumes dose assessment responsibilities and responsibilities for off-site protective action recommendations.
- (4) Direct the activities of the Environmental Assessment Director in response to the emergency.
- (5) Ensure that access and security controls are established at the EOF.
- (6) Assist in the development of plans and procedures for sampling and processing liquid, gaseous and solid radioactive waste.

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Alternates to the Superintendent - Technical Physical Science are in the following order:

- (1) Licensing Activity Coordinator
- (2) Safety and Assessment Superintendent

12.3.3.2.18 Environmental Assessment Director

Upon arrival at the EOF, the Plant Radiation Protection Supervisor assumes the position of the Environmental Assessment Director. The Environmental Assessment Director reports to the EOF Manager and is responsible for the direction and control of all off-site radiological aspects of the emergency. This includes dose projection calculations, protective action recommendation development, and the collection and analysis of radiological samples.

Alternate to the Plant Radiation Protection Supervisor is a Radiation Protection Engineer or designee.

12.3.3.2.19 Communication Director

Upon arrival at the EOF a member of the Plant Training Section assumes the position of the Communication Director. The Communication Director reports to the EOF Manager and is responsible for but not limited to the following:

- (1) Establish a chronological history log of events and make this log available to EOF personnel;
- (2) Ensure that communications and dose assessment personnel are regularly brought up-to-date on information required to perform their functions; and,
- (3) Establish communications with the Berrien County Sheriff's Department, Michigan State Police, Nuclear Regulatory Commission, Initial Assessment Group and the Emergency News Center.

Alternates to the Plant Training Section member are other Plant Training Section members.

12.3.3.2.20 Environmental Assessment Coordinator

Upon arrival at the EOF a Radiation Protection Engineer or designee assumes the position of Environmental Assessment Coordinator. The Environmental Assessment Coordinator reports to the Environmental Assessment Director and is responsible for but not limited to calculating off-site radiation exposures, accumulating off-site radiation measurement data, keeping track of in-plant effluent radiation monitors, and projecting radiation dose estimates based on expected or potential releases.

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The DOE Operations Office will, to the extent they are available during the protection and recovery stage, continue to advise the Emergency Services Section of the Michigan Department of State Police and provide monitoring and analytical capability as requested.

12.3.3.5.4 Fire Department

The Donald C. Cook Nuclear Plant maintains an on-site fire fighting brigade; this capability is expected to be sufficient for all fires on-site. In the event off-site assistance is desired or needed, local fire departments may be called upon. The Shift Supervisor is responsible for fire fighting activities on-site as well as notifying off-site departments when assistance is needed.

The assistance of the local Fire Department will not be required for any incident involving only radiological release. For any fires (including those that could result in radiological release), the assistance of a fire department could be requested.

The primary fire departments that will respond to a fire emergency at the Cook Plant are:

Lake Township F. D.
Bridgman F. D.

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Letters of Agreement to provide fire fighting assistance to the D. C. Cook Nuclear Plant can be found in Appendix C of this Plan.

12.3.3.6 Overall Organization & Communication

A Functional Organization Chart showing communications links between various emergency centers established as a result of a nuclear incident, is delineated in Figure 12-11.

The chart shows the relationship between various emergency centers and organizations after the incident has occurred and all channels of communication have been established. It is not intended to cover the initial procedure for notifying State/Local authorities of the incident. Initial notification flow sequence is shown in Figure 12-12.

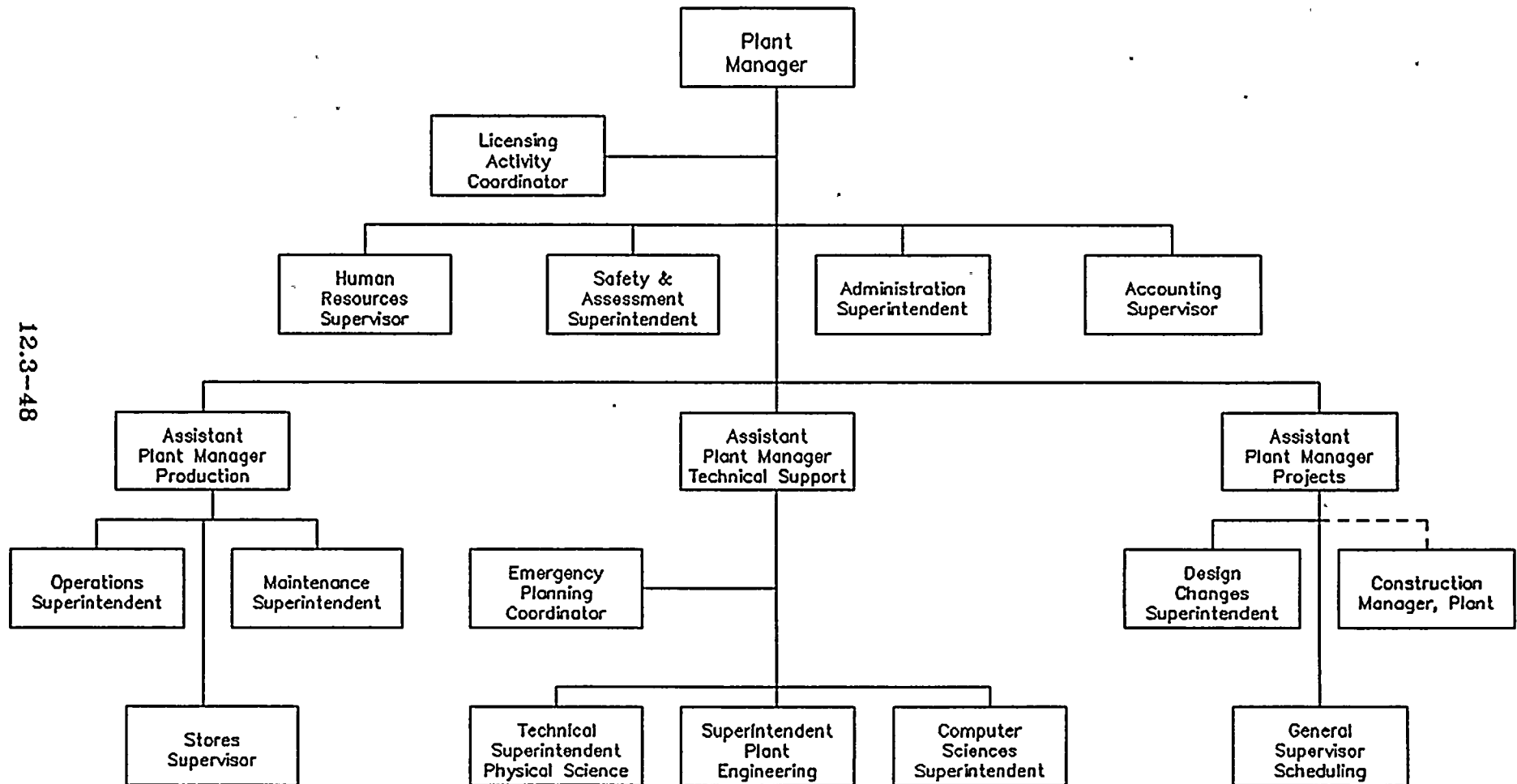
12.3.3.7 Nuclear Transportation Accidents

A Voluntary Assistance Agreement has been entered into between electric utilities involved in the transportation of source material, special nuclear material and by-product material received, possessed, used or transferred. This agreement sets forth the understanding and agreement with respect to the mutual undertaking to each other in the situation where an emergency occurs by reason of a nuclear materials transportation accident and assistance is provided by one utility to another. A copy of this agreement can be found in Appendix C.

FIGURE 12-4

INDIANA MICHIGAN POWER COMPANY

ORGANIZATION CHART FOR THE DONALD C. COOK NUCLEAR PLANT



----- Functional Responsibility only

12.3-48

Revision 10

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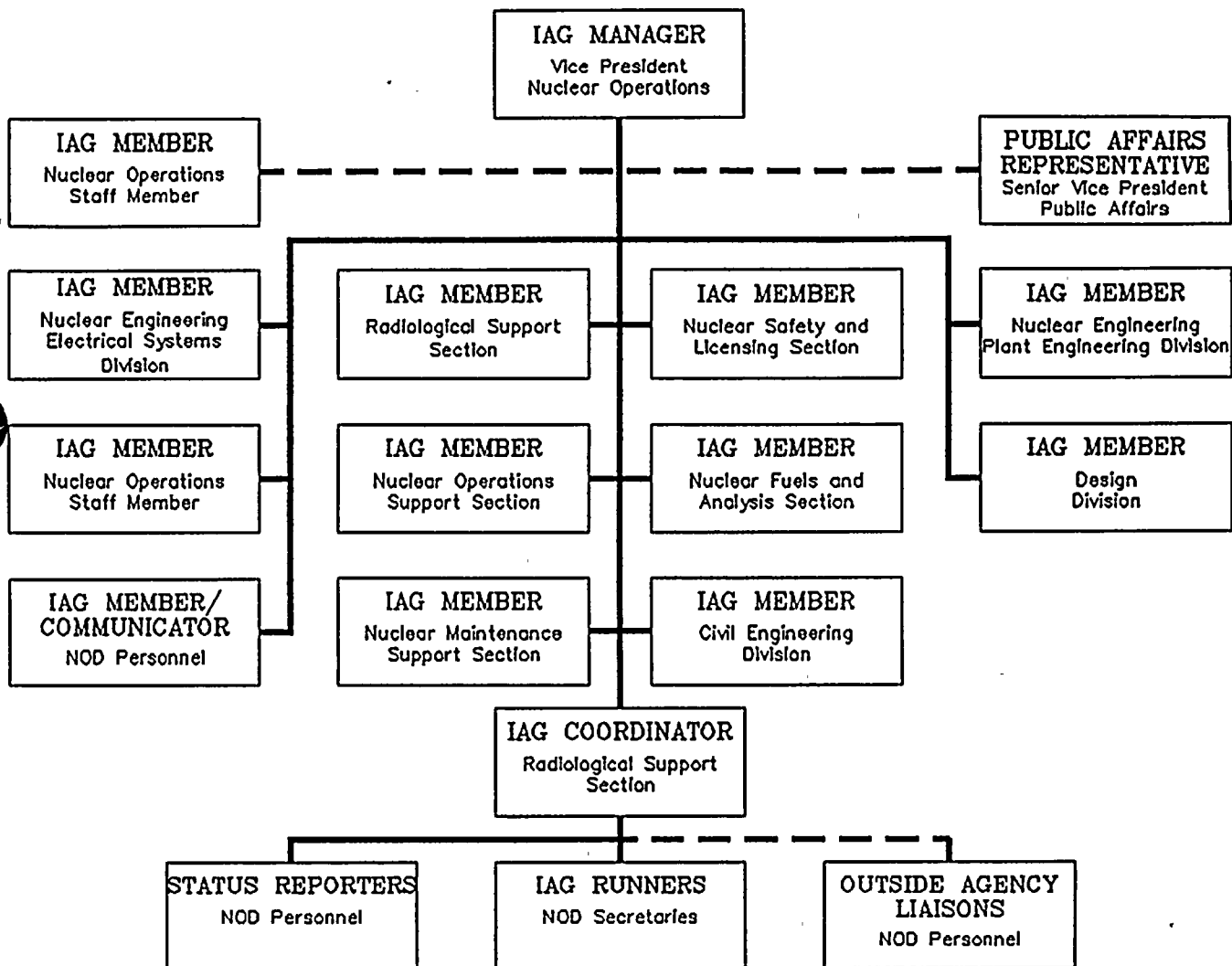
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FIGURE 12-7

IAG ORGANIZATIONAL CHART



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— — — Indicates Individuals who may remain in their office to perform assigned duties

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BYPASS & INOPERABLE STATUS INDICATION SYSTEM (BISI)

The BISI system provides the operators and technical support personnel with a clear indication of the availability of the plant safety systems (ESF Systems).

Additional data display terminals in the TSC provide the capabilities described below.

MIDAS TERMINAL

To access the MIDAS (Meteorological Information and Dispersion Assessment System) system, a Tektronix Graphics Display Terminal is available in the TSC. The system can be used to provide meteorological information for dose assessment purposes.

PERSONAL COMPUTER

To access the AEPSC in-house dose assessment program, DAP, a personal computer (PC) and hard copy unit are available in the TSC and the Control Room.

RADIATION DATA DISPLAY SYSTEM

Color graphic CRTs for the TSC and EOF are installed. The CRTs are connected to the Plant Radiation Monitoring System control terminals via modems and redundant communication channels.

The TSC will not contain, but will have ready access to plant records, drawings and other documentation as required. In addition, the TSC will be in communication with technical support personnel in the IAG (located in the AEPSC offices) during the initial phase of the event until the EOF in Benton Township is activated. The concept of operation of the Emergency Response Facilities is described in Section 12.3.9.4.

12.3.9.2 Emergency Operations Facility (EOF)

12.3.9.2.1 Emergency Operations Facility Functions

The Emergency Operations Facility (EOF) provides coordination and evaluation of licensee activities during an emergency. The EOF shall be activated during an Alert, Site Area and General Emergencies.

Once fully activated and staffed, the function of the EOF shall provide for:

- . Management of overall licensee emergency response,
- . Coordination of radiological and environmental assessment,
- . Determination of recommended public protective actions, and

Meteorological data from the on-site meteorological tower is input into the program. The data is used to calculate the atmospheric diffusion factor, X/Q .

Other features included in the program are as follows:

- straight-line Gaussian Transport model
- radioactive decay after reactor shutdown
- no decay or daughter in-growth during transit
- ground level release
- finite cloud correction
- option to input off-site field survey data.

The program is run on personal computers. Two (2) PCs are available in the EOF to provide redundant dose assessment capabilities.

The DAP program will be used as the primary means of performing a dose assessment.

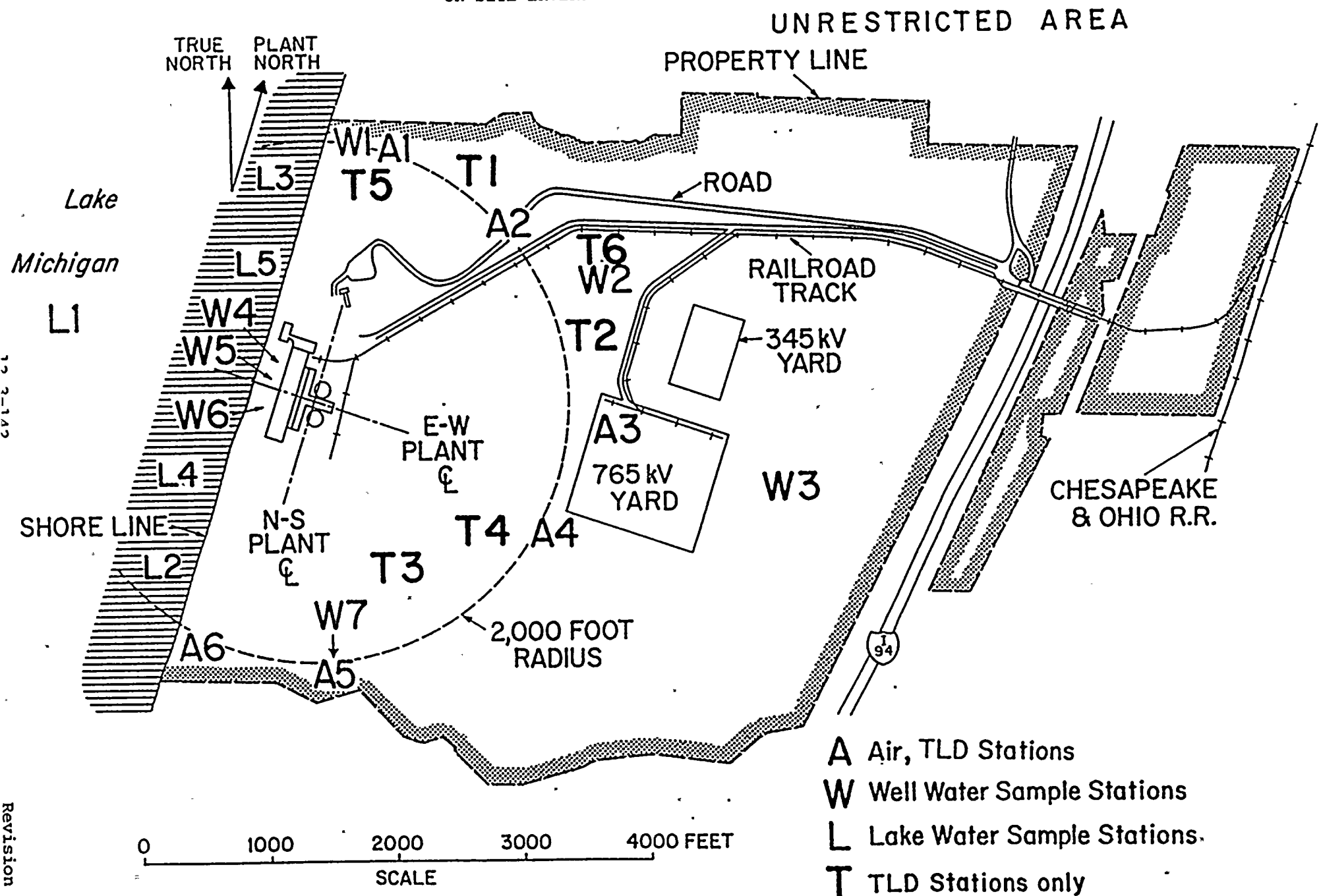
- 2) MIDAS (Meteorological Information and Dispersion Assessment System) is a computer-based system developed by Pickard, Lowe and Garrick, Inc. that performs the basic functions of meteorological data collection and quality checking. MIDAS is designed to perform three basic meteorological functions:

- a) Data Collection
- b) Data Storage
- c) Computation and Retrieval

The program was designed to assist nuclear plants in evaluating the meteorological conditions that exist during a plant emergency.

- 3) PLANT SAFETY SYSTEM DISPLAY is part of a technical support complex system from Westinghouse that provides information on safety system availability and plant safety status. Display of plant parameters at the EOF is via a TSC "Command" console, to the TSC computer for either Unit 1 or Unit 2, as the need arises. The EOF console will have the capability to call up the displays associated with the Control Room BISI (Bypassed and Inoperable Status Indication) consoles and the displays associated with the Control Room PSSD with the exception of the iconic (vector graphics) displays as described in Section 12.3.9.1.4.

FIGURE 1
ON-SITE ENVIRONMENTAL SAMPLING LOCATIONS





A-TLD STATIONS

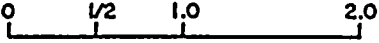




FIGURE 12-18

OFF-SITE ENVIRONMENTAL SAMPLING LOCATIONS

A Air, TLD Stations

L Lake Water Sample Stations

M Milk Sample Stations

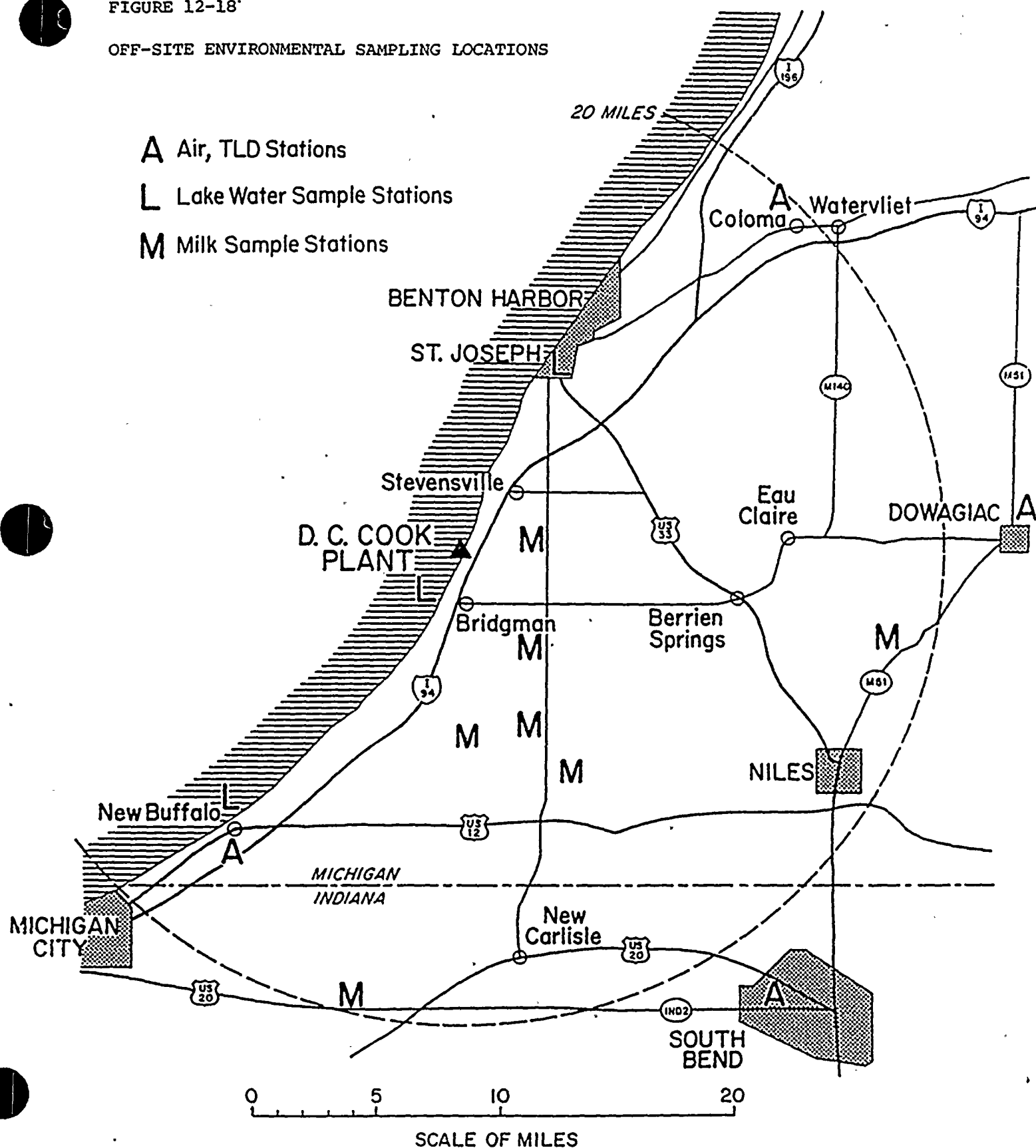


TABLE 12-2

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

<u>Exposure Pathway and/or Samples</u>	<u>Sample Locations</u>	<u>Sampling and Collection Frequency</u>	<u>Type & Frequency of Analysis</u>	
1. Airborne a. Radioiodine and Particulates	A1-A6 (Site) New Buffalo, South Bend, Dowagiac, and Coloma are Background	Continuous operation of sampler with Sample Collection as required by Dust Loading but at Least once per 7 days	Radioiodine canister Analyze: Weekly for I-131 Particulate sampler Gross Beta Radio- activity following Filter Change ^a composite (by location) for gamma isotopic quarterly	
2. Direct Radiation	a) T1-T12 (Site) b) New Buffalo South Bend Dowagiac Coloma c) 11 TLD Monitor Locations in the Five Mile Radius	At least once per 92 days	Gamma Dose. At least once per 92 days	10
3. Waterborne a. Surface	L1, L2, L3	Composite * Sample Over one-month Period	Gamma Isotopic Analysis monthly. Composite for tritium analysis-quarterly.	10
b. Ground	W1-W7	Quarterly	Gamma Isotopic and Tritium analysis quarterly.	
c. Drinking	St. Joseph Lake Township	Composite * Sample Collected over a period of ≤ 31 days Composite * Sample Over a 2 week period if I-131 Analysis is Performed.	Gross Beta and Gamma Isotopic Analysis of each composite sample. Tritium Analysis of composite Quarterly. I-131 analysis on each composite when the dose calculated for the consumption of the water is greater than 1 mrem per year.	10

* Composite sample shall be collected by collecting an aliquot
at intervals not exceeding 24 hours.

^aParticulate sample filters should be analyzed for gross beta 24 hours or more after
sampling to allow for radon and thoron daughter decay. If gross beta activity in air or
water is greater than 10 times the yearly mean of control samples for any medium, gamma
isotopic analysis should be performed on the individual samples.



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TABLE 12-2 (Cont'd.)

d. Sediment from Shoreline	L2, L3, L4, L5	2/year	Gamma Isotopic Analyses Semi-Annually.
4. Ingestion			
a. Milk	For indicator farm and a background farm	At least once per 15 days when animals are on pasture. At least once per 31 days at other times.	Gamma Isotopic and I-131 Analysis of each sample.
b. Fish	Plant Site Off-Site	2/year	Gamma Isotopic Analysis on Edible Portion.
c. Food Products	Plant Site Off-Site (approx. 20 mi.)	At time of Harvest one sample of each of the following classes of food products 1. Grapes	Gamma Isotopic Analysis on edible portion
	Plant Site	At time of harvest one sample of broad leaf vegetation	Gamma Isotopic Analysis
	3 indicator samples of broad leaf vegetation grown nearest to the offsite locations of the highest calculated annual average ground level D/Q if at least three indicator milk samples and one background milk sample cannot be obtained.	Monthly when available	Gamma Isotopic and I-131 monthly when available.
	1 background sample of each of the similar vegetation grown 15-25 miles distant and in one of the less prevalent wind directions if at least three indicator milk samples and one background milk sample cannot be obtained.	Monthly when available	Gamma Isotopic and I-131 monthly when available.

* An indicator farm is defined as the nearest milk producer in each of the land sectors within 8 miles of the plant site who is willing to participate in the radiological environmental monitoring program. A background farm is defined as a milk producer in one of the less prevalent wind directions at a distance greater than 15 miles



TABLE 12.3

POST-ACCIDENT MONITORING INSTRUMENTATION

INSTRUMENT	NUMBER OF TRANSMITTERS (f)	RANGE	DISPLAY		
			INDICATION	RECORD	COMPUTER
1. Containment Pressure	8 (2) (2) (4)	-1 to 2 psig -5 to 36 psig -5 to 12 psig	YES	YES	YES
2. Reactor Coolant Outlet Temp. - T _{HOT} (Wide Range)	1 per loop	0 - 700 °F	YES	YES	YES
3. Reactor Coolant Inlet Temp. - T _{COLD} (Wide Range)	1 per loop	0 - 700 °F	YES	YES	YES
4. Reactor Coolant Pressure - Wide Range	2	0-3000 psig	YES	YES	YES
5. Pressurizer Water Level	3	0-100%	YES	YES	YES
6. Steam Line Pressure	3 per S.G	0-1200 psig	YES	YES	YES
7. Steam Generator Water Level - Narrow Range	3 per S.G	0-100% Top 12ft	YES	YES	YES
8. Refueling Water Storage Tank Water Level	2	0-100%	YES	YES	NO
9. Boric Acid Tank Solution Level	1 per tank	0-100%	YES	NO	NO
10. Auxiliary Feedwater Flow Rate (a)	1 per S.G	0-250 X 10 ³ lb/hr	YES	NO	NO
11. Reactor Coolant System Subcooling Margin Monitor (b)	1 set/valve	35°F S/H to 200°F subcool 0-500 psi margin	YES	YES	YES
12. PORV Position Indicator - Limit Switches (c)	1 set/valve	open/closed	YES	NO	NO
13. PORV Block Valve Position Indicator - Limit Switches	1 set/valve	open/closed	YES	NO	NO
14. Safety Valve Position Indicator - Acoustic Monitor	1 channel per valve	open/closed	YES	NO	NO
15. Reactor Vessel Water Level Indication	6	0 - 120%	YES	YES	LATER
16. High Range Containment Area Monitor	2	10 ⁰ to 10 ⁷ R/Hr Photon Radiation ₄	YES (h)	YES (h)	YES (h)
17. Unit Vent Effluent Radiation Monitor	1	5.3 x 10 ⁻⁷ to 1.6 x 10 ⁻⁴ dci/cc Noble Gas 4% (4pi eff 364 KEV Iodine) 6% (4 pi eff. Sr-Y ⁹⁰) Particulate	YES (e)	YES (d,e)	YES (g)
18. Lower Containment Airborne Radiation Monitor	2	(Same as 17)	YES (e)	YES (d,e)	YES (g)

INSTRUMENT	NUMBER OF TRANSMITTERS (f)	RANGE	DISPLAY		
			INDICATION	RECORD	COMPUTER
19. Steam Generator Power Operated Relief Valves Radiation Monitors	1 per S.G	0.1 to 1.0×10^2 Noble Gas	uci/cc YES (e)	YES (d,e)	YES (g)
20. Gland Seal Steam Condenser Vent Radiation Monitors	1	5.8×10^{-7} to 1.6×10^4 Noble Gas	uci/cc YES (e)	YES (d,e)	YES (g)
21. Steam Jet Air Ejector Radiation Monitors	1	5.8×10^{-7} to 1.6×10^4 Noble Gas	uci/cc YES (e)	YES (d,e)	YES (g)
22. In-Core thermocouples	65	0 - 2500°F	YES	YES	YES

- (a) STEAM GENERATOR WATER LEVEL CHANNELS CAN BE USED AS A SUBSTITUTE FOR THE CORRESPONDING AUXILIARY FEEDWATER FLOW RATE CHANNEL INSTRUMENT.
- (b) PRODAC 250 SUBCOOLING MARGIN READOUT IS AN EQUIVALENT SOURCE FOR THE SUBCOOLING MONITORING INSTRUMENT.
- (c) ACOUSTIC MONITORING OF PORV POSITION (1 CHANNEL PER THREE VALVES - HEADERED DISCHARGE) CAN BE USED AS A SUBSTITUTE FOR THE PORV POSITION INDICATOR - LIMIT SWITCHES INSTRUMENTS.
- (d) CHANNELS' HISTORY FILES MAINTAINED AT LOCAL PROCESSORS.
- (e) ON DEMAND AT CONTROL TERMINALS AND CRT'S.
- (f) QUANTITIES IDENTIFIED ARE PER UNIT UNLESS OTHERWISE NOTED.
- (g) AT CONTROL ROOMS AND RDDS CRT'S
- (h) DEDICATED INDICATOR PLUS ANALOG INPUT TO EBERLINE LOCAL PROCESSOR TO PROVIDE RECORD PER (d), AND ADDITIONAL INDICATION PER (e); AND COMPUTER INPUT PER (g). ALSO, ANALOG INPUT TO WESTINGHOUSE P-2500 FOR APPLICABLE TSC DISPLAYS.

APPENDIX C

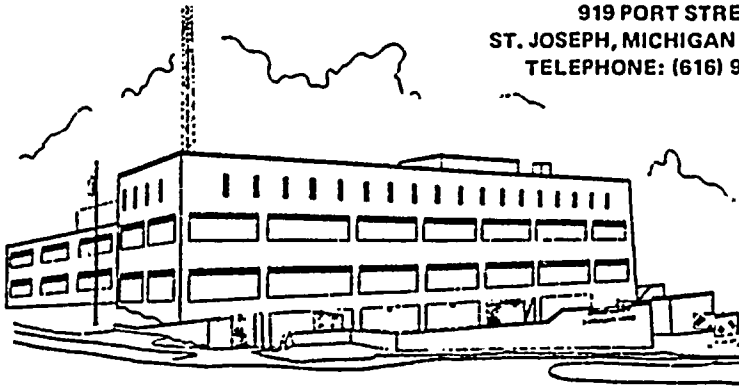
Agreements With Off-Site Support Agencies

	<u>Date</u>
1. Sheriff Department, Berrien County, Michigan	August 16, 1990
2. Department of State Police, State of Michigan	August 16, 1990
3. Mercy-Memorial Medical Center, Inc.	August 16, 1990
4. U. S. Department of Energy	August 21, 1990
5. Lake Township Fire Department	November 27, 1990
6. City of Bridgman Fire Department	November 8, 1990
7. Voluntary Assistance Agreement for Electric Utilities Involved in Transportation Accidents	July 1, 1990
8. Consumers Power Reciprocal Laboratory Use Agreement	August 9, 1990
9. Medic 1 Community Emergency Service	August 28, 1990
10. Lake Township Ambulance and Rescue	November 27, 1990
11. Mutual Assistance Agreement	September 28, 1990
12. Nuclear Power Plant Emergency Response Voluntary Assistance Agreement	July 1, 1990
13. Institute of Nuclear Power Operations Emergency Resources	August 20, 1991
14. Coordination Agreement on Emergency Information Among U.S. Council for Energy Awareness, Electric Power Research Institute, Institute of Nuclear Power Operations, Nuclear Management and Resources Council and their member utilities	April 1988
15. Pawating Hospital	September 10, 1990



SHERIFF DEPARTMENT - BERRIEN COUNTY - MICHIGAN

919 PORT STREET
ST. JOSEPH, MICHIGAN 49085-1184
TELEPHONE: (616) 983-7141



FORREST L. JEWELL
SHERIFF

ROBERT E. KIMMERLY
UNDERSHERIFF

DONALD E. JEWELL
CHIEF DEPUTY

August 16, 1990

Milton P. Alexich
Vice President Nuclear Operations
American Electric Power Service Corporation
1 Riverside Plaza
Columbus, OH 43215

Dear Mr. Alexich:

We wish to reaffirm the willingness of the Berrien County Sheriff's Department to respond upon request to any emergency which could occur at your facility.

The Office of Emergency Preparedness has the obligation to respond upon notification that an emergency exists. Berrien County would implement their Nuclear Power Plant plan and take appropriate actions as outlined therein.

In addition, the Sheriff's Department has basic patrol and investigative services and currently has three certified bomb technicians who have successfully completed the United States Army Hazardous Device School at Redstone Arsenal in Huntsville, Alabama, a special Tactical Unit whose members were trained by the Federal Bureau of Investigation at Quantico, Virginia, and a Hazardous Materials Response Team who have received training by Safety Systems Emergency Response Schools at Jacksonville, Florida.

May we again assure you that the services of the Berrien County Sheriff's Department will be available to you upon request in any area within the jurisdiction of this agency.

Sincerely,

Handwritten signature of Forrest L. Jewell.

Forrest L. Jewell
Sheriff & Director

STATE OF MICHIGAN



JAMES J. BLANCHARD, GOVERNOR
DEPARTMENT OF STATE POLICE
COL. R. T. DAVIS, DIRECTOR

EMERGENCY MANAGEMENT DIVISION

KNAPPS CENTRE, SUITE 300
300 SOUTH WASHINGTON SQUARE
LANSING, MICHIGAN 48913

PHONE: 517 373-6271

August 16, 1990

Mr. M. P. Alexich, Vice President
American Electric Power Service Corp.
1 Riverside Plaza
Columbus, OH 43215

Dear Mr. Alexich:

This letter serves to confirm that the State of Michigan is committed to respond to an accident at the Donald C. Cook Nuclear Power Plant. This response, if necessary, will be in accordance with statutory authority and the Michigan Emergency Management Plan.

If I may be of further service, please contact me.

Sincerely,

A handwritten signature in dark ink, appearing to read "J. M. Tyler".

F/Lt. James M. Tyler
Commanding Officer
Pre-Disaster Services Section

JMT/sc





Mercy Memorial
Medical Center Inc.

HERE FOR YOUR HEALTH

August 16, 1990

Mr. Milton P. Alexich
Vice President Nuclear Operations
American Electric Power Service Corp.
1 Riverside Plaza
Columbus, OH 43215

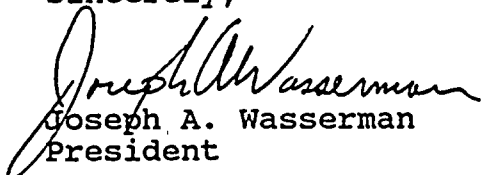
Dear Mr. Alexich:

This letter will serve to confirm that the Mercy Memorial Medical Center, Inc., has established a working arrangement with the Donald C. Cook Nuclear Power Plant at Bridgman, Michigan to provide emergency medical services in the event of a radiation or contamination injury to personnel on site, or members of the general public off site, resulting from operation of the Plant.

We have developed a system for receiving patients in an isolated area of the hospital. Also, the necessary hospital personnel have been trained in the specific methods of treating patients contaminated with radioactive materials. Retraining will be done at frequent intervals. Any further questions can be directed to Ms. Laurie Fleming, Director Emergency Department, who is MMC's liaison. Ms. Fleming's phone number is (616) 983-8558.

It is our understanding that all procedures, training and equipment for this purpose will be provided by the Donald C. Cook Nuclear Power Plant.

Sincerely,


Joseph A. Wasserman
President

JAW:ja

cc: L. Fleming



Department of Energy

Chicago Operations Office
9800 South Cass Avenue
Argonne, Illinois 60439

August 21, 1990

Mr. Milton P. Alexich
Vice President
Nuclear Operations
American Electric Power Service Corp.
1 Riverside Plaza
Columbus, OH 43215

Dear Mr. Alexich:

The U.S. Department of Energy (DOE) will respond to requests for radiological assistance from licensees, Federal, State, and local agencies, private organizations, or individuals involved in or cognizant of an incident believed to involve source, byproduct, or special nuclear material as defined by the Atomic Energy Act of 1954, as amended, or other ionizing radiation sources.

Unless DOE or a DOE contractor is responsible for the activity, ionizing radiation source, or radioactive material involved in an incident, DOE radiological assistance will be limited to advice and emergency action essential for the control of the immediate hazards to health and safety. Radiological emergency assistance will be terminated as soon as the emergency situation is under control. Therefore, responsibility for postincident recovery, including further action for the protection of individuals and public health and safety, should be assumed by the appropriate responsible Federal, State, or local government, or private authority as soon as the emergency conditions are stabilized.

If we can be of further assistance, please feel free to contact us.

Sincerely,

Martin M. Samber
for E. G. Cumesty
Acting Manager

cc: Director, Office of Nuclear Safety Technology, HQ (EH-332/GTN)
U.S. Nuclear Regulatory Commission, Office of Inspection and
Enforcement, Region III

Indiana Michigan
Power Company
Cook Nuclear Plant
One Cook Place
Bridgman, MI 49106
616 465 5901



Emergency Planning Agreement Between the Lake Township Fire
Department and Donald C. Cook Nuclear Plant

Upon receipt of a request for fire fighting assistance from the Indiana Michigan Power Company's Donald C. Cook Nuclear Plant Security Department, the Lake Township Fire Department agrees to respond by sending personnel, apparatus, and equipment to the Cook Nuclear Plant site.

The Cook Nuclear Plant agrees to lead such Township Fire Fighting Assistance from the Security Operations Building to the scene of the fire and agrees to provide escorts for Township Fire Fighting vehicles and personnel while in the Protected Area, or other owner controlled area.

The Cook Nuclear Plant and the Lake Township Fire Department agree that for all fires in the Plant Protected Areas the Plant Fire Brigade Leader will be responsible for fire extinguishment with the assistance of Lake Township Fire Department personnel and advice and counsel of the Lake Township Fire Chief or his designee. Fire fighting by members of the Lake Township Fire Department in the Auxiliary Building will be done only with the concurrence of the Plant Manager.

For fires outside the Plant Protected Area the Township Fire Chief shall be responsible for fire extinguishment with the advice and counsel of the Plant Fire Brigade Leader or designee if they are present.

The Cook Nuclear Plant agrees to provide and the Lake Township Fire Department agrees to participate in annual site specific training and drills conducted at the Cook Nuclear Plant site.

This agreement shall remain in effect from the date of signing unless and until terminated.

Any party upon ninety (90) days prior written notice to the other party, may terminate this agreement.

As an indication of your agreement to the above statements concerning our mutual responsibilities, please sign below.

Sincerely,

A. A. Blind
A. A. Blind
Plant Manager
Donald C. Cook Nuclear Plant

Accepted and agreed to this
27th day of November, 1990.

Norm Zelmer
Norman Zelmer
Fire Chief
Lake Township Fire Department

Thomas J. Schurz
Asst. Chief.



Emergency Planning Agreement Between the Bridgman City Fire
Department and Donald C. Cook Nuclear Plant

Upon receipt of a request for fire fighting assistance from the Indiana Michigan Power Company's Donald C. Cook Nuclear Plant Security Department, the Bridgman City Fire Department agrees to respond by sending personnel, apparatus and equipment to the Cook Nuclear Plant site.

The Cook Nuclear Plant agrees to lead such City Fire Fighting Assistance from the Security Operations Building to the scene of the fire and agrees to provide escorts for City Fire Fighting vehicles and personnel while in the Protected Area, or other owner controlled area.

The Cook Nuclear Plant understands that the Lake Township Fire Department is the primary response fire department for the Cook Nuclear Plant, and under normal situations the Lake Township Fire Chief, or his designee shall be responsible for fire extinguishment at the Cook Nuclear Plant. However, in the event of a situation in which the Lake Township Fire Department is unable to respond, the Bridgman City Fire Chief, or his designee, shall be responsible for fire extinguishment with the advice and consent of the Cook Nuclear plant Site Fire Brigade leader. Firefighting in the Auxiliary Building will be done only with concurrence of the Plant Manager.

The Cook Nuclear Plant Site Fire Brigade will assist and aid the City Fire Fighting personnel.


The Cook Nuclear Plant agrees to provide and the Bridgman City Fire Department agrees to participate in annual site specific training and drills conducted at the Cook Nuclear Plant site.

This agreement shall remain in effect from the date of signing unless and until terminated.

Any party upon ninety (90) days prior written notice to the other party, may terminate this agreement.

As an indication of your agreement to the above statements concerning our mutual responsibilities, please sign below.

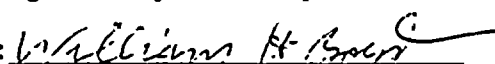
Sincerely,



A. A. Blind
Plant Manager
Donald C. Cook Nuclear Plant

Accepted and agreed to this
5th day of November, 1990.

Bridgman City Fire Department

By: 

William H. Boyd, Sr., Fire Chief

6.1 Signatories to the Voluntary Assistance Agreement By and Among
Electric Utilities Involved in Transportation of Nuclear Materials

The following organizations have signed the Voluntary Assistance Agreement By and Among Electric Utilities Involved in Transportation of Nuclear Materials. This list is current as of July 1, 1990.

Alabama Power Company
Arizona Public Service Company
Baltimore Gas and Electric Company
Boston Edison Company
Carolina Power & Light Company
Centerior Energy Corporation
Commonwealth Edison Company
Consolidated Edison Company of New York, Incorporated
Consumers Power Company
The Detroit Edison Company
Duke Power Company
Duquesne Light Company
Entergy Operations, Incorporated
Florida Power Corporation
Florida Power & Light Company
Georgia Power Company
GPU Nuclear Corporation
Gulf States Utilities Company
Houston Lighting & Power Company
Illinois Power Company
Iowa Electric Light and Power Company
Long Island Lighting Company
Maine Yankee Atomic Power Company
Nebraska Public Power District
New York Power Authority
Niagara Mohawk Power Corporation
Northeast Utilities
Northern States Power Company
Omaha Public Power District
Pacific Gas and Electric Company

Signatures to the Voluntary Assistance Agreements By and Among Electrical
Utilities Involved in Transportation of Nuclear Materials (Cont'd)

Pennsylvania Power & Light Company
Philadelphia Electric Company
Portland General Electric Company
Public Service Company of Colorado
Public Service Company of New Hampshire
Public Service Electric and Gas Company
Rochester Gas and Electric Corporation
South Carolina Electric & Gas Company
Southern California Edison Company
Tennessee Valley Authority
TU Electric
The Toledo Edison Company
Union Electric Company
Vermont Yankee Nuclear Power Corporation
Virginia Power
Washington Public Power Supply System
Wisconsin Electric Power Company
Wisconsin Public Service Corporation
Wolf Creek Nuclear Operating Corporation
Yankee Atomic Electric Company

Voluntary Assistance Agreement
By and Among
Electric Utilities Involved in
Transportation of Nuclear Materials

This Voluntary Assistance Agreement (hereinafter "Agreement") has been entered into by and among electric utilities involved in transportation of source material, special nuclear material, or byproduct material received, possessed, used, or transferred under a general or specific license issued by the U.S. Nuclear Regulatory Commission pursuant to Title 10 of the Code of Federal Regulations (hereinafter "nuclear materials") and which have subscribed counterpart signature pages in the form attached hereto (hereinafter "Parties").

The Parties wish to set forth herein their understanding and agreement with respect to their mutual undertaking to each other in the situation wherein an Emergency arises during the transportation of nuclear materials shipped by or on behalf of a Party and a request for assistance is issued to another Party in respect to such Emergency and such assistance is provided. This Agreement is intended only to define the terms and conditions under which such assistance, if volunteered, will be rendered and received. It is understood that this Agreement does not impose any obligation on any Party to render or continue to render any such assistance, but this Agreement does record the understanding of the Parties with respect to the rights and obligations which will be incurred in responding to requests for assistance.

NOW, THEREFORE, it is agreed, that:

1. Assistance rendered by a party as described hereunder shall be entirely voluntary and, when given in response to a request by any Party for help during an Emergency arising by reason of the transportation of nuclear materials, shall be rendered in accordance with the terms and conditions herein.

2. The Party that requests assistance shall be known as the "Requesting Company" and the Party furnishing assistance shall be known as the "Responding Company." Attachment A is a suggested letter confirming an agreement whereby assistance will be furnished pursuant to this Agreement.

3. (a) Requesting Company shall notify Responding Company of the type of assistance requested and the anticipated duration during which such assistance is desired. Requesting Company may also provide general direction as to the actions to be taken by Responding Company. Responding Company shall furnish such assistance as it may decide. Except as such companies may agree otherwise, Responding Company shall be responsible for determining the procedures to be followed in furnishing such assistance and for supervising work at the site of the Emergency. Requesting Company, in cooperation with Responding Company, shall make any report to governmental authorities and the news media. Requesting Company will notify Responding Company when its assistance is no longer needed.

(b) The furnishing of assistance hereunder shall be deemed to have commenced when personnel of the Responding Company are assigned to other than normal duties or transportation of equipment commences pursuant to a determination by the Responding Company to provide assistance to a Requesting

Company under this Agreement and shall be deemed to have terminated when the transportation of such personnel or equipment back to their working base, or home (for personnel returning at other than regular working hours), is completed.

(c) The Responding Company shall make all arrangements for the transportation of its personnel and equipment from and to their working base or home.

4. (a) Employees of Responding Company shall at all times continue to be employees of and remain under the supervision and control of the Responding Company and shall at no time and for no purpose be deemed to be servants, agents, employees, or representatives of the Requesting Company.

(b) Wages, hours, and other terms and conditions of employment applicable to personnel of the Responding Company, including work procedures and/or safety rules, shall be those of the Responding Company.

(c) All personnel of the Responding Company shall be equipped by the Responding Company with such normal working and protective equipment as shall be compatible with the circumstances under which said personnel shall function hereunder; Requesting Company shall inform Responding Company of any specific equipment which may be required in a particular situation.

5. (a) Responding Company shall furnish the requested personnel and equipment to the extent that the Responding Company may determine to do so in its sole judgment and discretion.

(b) Responding Company shall have the right, at any time and in its sole judgment and discretion, to withdraw personnel and equipment furnished to the Requesting Company and return such personnel and equipment to their working base. Responding Company shall give written notice at least 24 hours in advance to Requesting Company of the permanent withdrawal of personnel or equipment furnished. Responding Company's withdrawal of personnel or equipment shall not affect any obligations which may have been incurred hereunder prior to such withdrawal or which may arise out of events occurring prior to such withdrawal.

6. All time sheets and work records pertaining to Responding Company personnel and equipment shall be kept by the Responding Company. The Responding Company shall furnish the Requesting Company with a detailed statement of all costs and expenses paid or incurred by the Responding Company in connection with the furnishing of assistance to the Requesting Company, which statement shall be paid by Requesting Company within thirty (30) days after receipt.

7. The Requesting Company shall reimburse Responding Company for all direct and indirect costs and expenses, not including a profit, incurred by Responding Company in giving assistance pursuant to this Agreement, including but not limited to costs and expenses related to or resulting from compliance with governmental requirements such as Title 10 of the Code of Federal Regulations, Part 20. Such costs and expenses shall be computed in accordance with Responding Company's standard rates and accounting practices including such overheads as are determined by Responding Company to be applicable to such direct and indirect costs and expenses incurred by Responding Company. Requesting Company shall have the right to audit the

records of Responding Company relative to work performed pursuant to this Agreement.

8. (a) In addition, and subject to the provisions of paragraph 8(b) hereof, Requesting Company shall indemnify and hold Responding Company, its officers, directors, and employees, jointly and severally, harmless from and against any and all liability or loss, damage, cost, or expense which any of them may incur by reason of bodily injury, including but not limited to death, to any person or persons, or by reason of damage to or destruction of any property, including but not limited to the loss of the use thereof, which results from furnishing assistance pursuant to this Agreement, whether due in whole or in part to any act, omission, or negligence of Responding Company, its officers, directors, or employees.

(b) Where payments are made by Responding Company or its insurers to Responding Company's officers, directors, or employees or their beneficiaries for bodily injury or death resulting from furnishing assistance pursuant to this Agreement, including but not limited to workers' compensation, disability, pension plan, medical and hospitalization, or other such payments, Requesting Company shall make reimbursement to Responding Company to the extent such payments increase the Responding Company's employee-related costs, whether such increase in costs occurs in the form of an increase in premiums or contributions, a reduction in dividends or premium refunds, or otherwise. Requesting Company shall also reimburse Responding Company for any deductible amounts or for any amounts paid by Responding Company as a self-insurer. Responding Company will request its insurer to waive any right of subrogation it may have against Requesting Company as a result of any payment described in this paragraph 8(b) which such insurer may

make on behalf of Responding Company because of Responding Company's furnishing of assistance pursuant to this Agreement.

(c) In the event any claim or demand is made or suit, action, or proceeding is filed against Responding Company, its officers, directors, or employees, jointly or severally, alleging liability for which Requesting Company shall indemnify and hold harmless Responding Company, its officers, directors and employees under paragraph 8(a) hereof, Responding Company shall promptly notify Requesting Company thereof, and Requesting Company, at its sole cost and expense, shall settle, compromise, or defend the same in such manner as it in its sole discretion deems necessary or prudent. Responding Company shall cooperate with Requesting Company in the resolution of any such matter.

(d) Each party to this Agreement agrees to carry financial protection required by the Atomic Energy Act of 1954, as amended, and self-insurance or comprehensive liability insurance, including contractual liability coverage covering the indemnification and defense obligations set forth herein, subject to such types and amounts of self-insurance, retentions, or deductibles as are consistent with good business practice in the industry.

(e) In the event a Responding Company provides assistance pursuant to this Agreement through an affiliate or subsidiary, the indemnification provided in this paragraph 8 to the officers, directors, and employees of that Responding Company shall apply with equal force to the officers, directors, and employees of that affiliate or subsidiary.

9. Each Party shall provide the Institute of Nuclear Power Operations (hereinafter "INPO") with an executed counterpart signature page to

this Agreement and to any amendments hereto. This Agreement shall become effective when counterpart signature pages executed by at least two Parties shall have been received by INPO. This Agreement shall remain in effect as to any Party until such Party has withdrawn from the Agreement as provided below. Any electric utility involved in the transportation of nuclear materials may become a Party upon execution of the Agreement.

10. (a) INPO may provide certain administrative and emergency response support services in furtherance of this Agreement, such as maintaining and distributing to the Parties a roster of the signatories to this Agreement; providing copies of the Agreement and any amendments thereto to all Parties; and preparing and distributing to the Parties other documents, such as list of sources of emergency manpower and equipment. INPO may provide such other services as may be requested of INPO from time to time by the Parties. The Parties recognize that INPO shall not be responsible for implementing, enforcing, or interpreting this Agreement.

(b) The Parties shall defend, indemnify, and hold harmless INPO, its officers, directors, and employees, jointly and severally, from and against any and all liability or loss, damage, cost, or expense which results from performance of INPO functions described in paragraph 10(a) of this Agreement, except as may result from the sole negligence or willful misconduct of INPO, its officers, directors, or employees. Each Party hereby expressly waives any right it may have to assert any claim against INPO, its officers, directors, or employees arising out of its or their performance of the duties described in paragraph 10(a), except as may result from the sole negligence or willful misconduct of INPO, its officers, directors, or employees.

(c) Following the occurrence of an emergency involving the transportation of nuclear materials INPO may, if asked to do so by a Requesting Company, help to locate sources of emergency manpower and equipment with which the Requesting Company may contract for assistance. If INPO does furnish such assistance and, unless otherwise agreed by INPO and the Requesting Company, the Requesting Company and INPO shall have the same rights and obligations as if INPO were a Responding Company (including but not limited to the Requesting Company's obligations to INPO, its officers, directors, and employees under paragraph 8 hereof), except that paragraphs 6 and 7 shall not apply either to Requesting Company or INPO and paragraph 8(d) shall not apply to INPO.

11. This Agreement will not create any rights or defenses in favor of an entity or person not a signatory to this Agreement except to the extent provided in this paragraph and in paragraphs 8 and 10 of this Agreement. This Agreement shall be binding upon and inure to the benefit of each signatory to this Agreement and the subsidiaries and affiliates of each such signatory.

12. Except as otherwise provided in paragraph 13, any Party may withdraw from this Agreement upon at least thirty (30) days prior written notice to INPO with a copy to all of the other Parties. Notice of withdrawal shall not affect any obligations which may have been incurred hereunder prior to the effective date of such notice or which may arise out of events occurring prior to that date. No party may withdraw from this Agreement while it is receiving assistance pursuant to this Agreement.

13. This Agreement may be amended by agreement of a majority of the Parties hereto. Such amendment shall be effective and binding upon all Parties thirty (30) days after INPO has received counterpart signature pages

for the amendment executed by at least a majority of the Parties to the Agreement. INPO shall notify all Parties when at least a majority of the Parties have executed an amendment to the Agreement. No amendment shall affect any obligation which may have been incurred hereunder prior to the effective date of such amendment or which arises out of events occurring prior to that date. Notwithstanding the first sentence of paragraph 12, any Party may withdraw from this Agreement by submitting written notice to INPO at any time during the thirty (30) day period prior to the effective date of such amendment with a copy to all of the other Parties.

14. If any provision of this Agreement is determined to be invalid or unenforceable as to any Party or otherwise, such determination shall not affect the validity or enforceability of the other provisions of this Agreement as to that Party or otherwise.

COUNTERPART SIGNATURE PAGE

The undersigned company hereby agrees to become a Party to the
Voluntary Assistance Agreement By and Among Electric Utilities Involved in
Transportation of Nuclear Materials dated July 1, 1982.

Date _____

Company _____

By _____

Corporate Officer Signature

ATTACHMENT A

Requesting Company Letterhead

Date _____, 19__

(Name and Address of
Responding Company)

This letter confirms the telephone conversation on (insert date and time) between our _____ and your _____ in which our company requested assistance pursuant to the terms of the Voluntary Assistance Agreement By and Among Electric Utilities Involved in Transportation of Nuclear Materials dated _____, 1982 and your company agreed to provide assistance pursuant to that Agreement.

Please acknowledge your agreement to the foregoing by signing and returning to me the enclosed copy of this letter.

Requesting Company Name and Address

Corporate Officer Signature

Responding Company Name and Address

Corporate Officer Signature and Date

RECIPROCAL LABORATORY USE AGREEMENT

THIS AGREEMENT, made as of the 9th day of August, 1990, by and between INDIANA MICHIGAN POWER COMPANY, an Indiana corporation (hereinafter called "I&M") and CONSUMERS POWER COMPANY, a Michigan corporation (hereinafter called "Consumers Power"),

W I T N E S S E T H

T H A T

WHEREAS, I&M and Consumers Power have chemical and radiochemical analytical laboratories at their Donald C Cook Nuclear Plant and Palisades Nuclear Plant, respectively, which laboratory facilities are suitable for performing chemical analyses following a nuclear-related accident (NRA), and

WHEREAS, I&M and Consumers Power each desire to provide the temporary use of their respective existing laboratory facilities and personnel to perform chemical analyses for the other in the event the other has lost use of its laboratory facilities due to a NRA.

NOW, THEREFORE, the parties hereto do hereby mutually agree as follows:

1. In the event either party hereto is unable to use its laboratory facilities due to a NRA, the other party agrees to temporarily use its existing laboratory facilities and personnel, to the extent practical, to analyze, without charge, samples delivered to it by the party which suffered the NRA. Each party agrees, in connection with such sampling handling and analyses, to comply with the requirements of NUREG-0578 and NUREG-0737 and such other requirements as may be specified by the Nuclear Regulatory Commission in regard to post-accident sample analysis. Detailed procedures for sample transport, handling and analysis will be developed by mutual agreement, in writing, of Consumers Power's Radiological Services Manager at the Palisades Nuclear Plant and I&M's Technical Department Superintendent at the D C Cook Nuclear Plant.

2. Each party agrees, in performing analyses for the other, to provide a high standard of professional service, provided, however, that neither party shall have any obligation or liability for damages, including, but not limited to, consequential damages, arising out of or in connection with the other's use of, or reliance on, the results of such analyses.

3. If, at any time, either party anticipates the temporary unavailability of its laboratory facilities or personnel for any reason or such facilities or personnel are rendered unavailable due to an event beyond the reasonable control of the party, such party shall promptly notify the other party of the anticipated or actual unavailability of such facilities or personnel and the expected duration thereof in order that the other party may make other suitable temporary arrangements for analyses, the expenses of which arrangements shall be borne by the party making the arrangements. Neither party shall have any obligation or liability of any kind, arising out of or in connection with, the unavailability of its facilities or personnel as provided in this Section 3.


4. This agreement shall be effective on the date hereof and shall continue until terminated as hereinafter set forth. Either party hereto may terminate this agreement at any time hereafter upon sixty (60) days written notice of such termination to the other party.

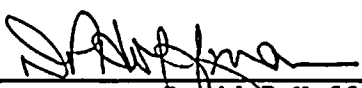
IN WITNESS WHEREOF, the parties hereto have hereunto set their hands the day and year first above written.

INDIANA MICHIGAN POWER COMPANY

CONSUMERS POWER COMPANY

BY:

 8/9/90
M P Alexich
Vice President, Nuclear Operations

 7/20/90
David P Hoffman
Vice President, Nuclear Operations



COMMUNITY EMERGENCY SERVICE

August 28, 1990

Mr. Milton P. Alexich
Vice President, Nuclear Operations
American Electric Power Service Corp.
1 Riverside Plaza
Columbus, Ohio 43216

Dear Mr. Alexich:

This letter is in response to your request for an updated letter of agreement with Medic I Ambulance regarding our assistance during an emergency situation at the Donald C. Cook Nuclear Plant. I again would like to state that we will act as back-up ambulance service to you.

As you are aware, the Lake Township Ambulance Service is your primary response service. In the event of a situation which Lake Township cannot handle alone, we will provide ambulance service to your facility, if we have an available unit. We will continue to provide this service during the emergency as long as we do not have emergency calls in our own service area which must be handled.

I hope that this letter meets your requirements.

Sincerely,

William M. Gebhard
William M. Gebhard
Director

MUTUAL ASSISTANCE AGREEMENT

BETWEEN

DETROIT EDISON,

CONSUMERS POWER COMPANY,

THE TOLEDO EDISON COMPANY,

THE INDIANA MICHIGAN POWER COMPANY

AND

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

- 0.1 The Consumers Power Company, a Michigan corporation; Detroit Edison, a Michigan and New York corporation; The Toledo Edison Company, an Ohio corporation; The Indiana Michigan Power Company, an Indiana corporation; and The Cleveland Electric Illuminating Company, an Ohio corporation,

WITNESSETH

- 0.2 WHEREAS, Consumers Power Company, Detroit Edison, and The Indiana Michigan Power Company own electric facilities, including nuclear generation stations, and are engaged in the generation, transmission, distribution and sale of electric power and energy in Michigan; and
- 0.3 WHEREAS, The Toledo Edison Company, and the Cleveland Electric Illuminating Company own electric facilities, including nuclear generating stations, and are engaged in the generation, transmission, distribution, and sale of electric power and energy in Ohio; and
- 0.4 WHEREAS, the parties desire to help assure the availability of adequately trained and experienced emergency personnel in the event of an emergency situation at any of their nuclear generating stations;
- 0.5 NOW, THEREFORE, in consideration of the promises and mutual covenants herein set forth, the parties agree as follows:

ARTICLE I

DEFINITIONS

- 1.1 "Alert" shall be defined as a situation in which events are in process or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant.
- 1.2 "Emergency" shall be defined consistent with the definition of "site area emergency" as set forth in NUREG 0654 as a situation in which events are in process or have occurred which involve actual or likely major failures of plant functions needed for protection of the public.
- 1.3 "Requesting party" shall be defined as any party to this Agreement who, upon the occurrence of an emergency at one of its nuclear generating stations, seeks emergency assistance, pursuant to this Agreement, from one or more of the parties hereto.
- 1.4 "Responding party" or "responding parties" shall be defined as any party or parties to this Agreement who are presented with a request for emergency assistance pursuant to this Agreement.

ARTICLE II REQUESTS FOR EMERGENCY ASSISTANCE

- 2.1 In the event of an alert at one of its nuclear generating stations, any party to this Agreement may notify any or all of the other parties that an alert exists and that their emergency assistance may be required.
- 2.2 In the event of an emergency at one of its nuclear generating stations, any party to this Agreement may request emergency assistance from any or all of the other parties.
- 2.3 Requests for emergency assistance shall be made between and among the following party personnel:

Consumers Power Company	- Vice President Nuclear Operations
Detroit Edison	- Senior Vice President Nuclear Generation
The Toledo Edison Company	- Vice President - Nuclear
The Indiana Michigan Power Company	- Vice President
The Cleveland Electric Illuminating Company	- Vice President - Nuclear

ARTICLE III EXCUSED FAILURE TO RESPOND

- 3.1 Failure to respond to a request for emergency assistance pursuant to this Agreement shall be excused if, in order to respond, the requested party or parties would be forced in its or their sole judgment or judgments to:
 - 3.1.1 Violate its duties relating to the care and staffing at its own nuclear generating stations; or
 - 3.1.2 Jeopardize the public health or safety at a location other than the location of the requesting party's emergency.

ARTICLE IV SCOPE OF ASSISTANCE

- 4.1 If requested under this Agreement, the responding party or parties will provide trained and experienced personnel to perform off-site radiation protection activities to the requesting party as those persons may be available to the responding party up to a maximum of six (6) such persons.



All equipment intended for use by the responding personnel, except personal dosimeters and certification documents (such as certifications of Health Physics training, instrument training and dose exposure records), shall be the responsibility of the requesting party to provide. The responding party or parties may use their own equipment if agreeable to the requesting party. However, use by the responding party or parties of their own equipment shall in no way alter the duties and obligations imposed upon the parties by this Agreement.

- 4.2 Emergency assistance provided by the responding party or parties shall continue until their personnel are relieved by the requesting party, the Federal or State emergency teams, or by the need of the responding party to answer an emergency at its own facilities.
- 4.3 Responding party or parties' personnel exposure shall be limited to off-site radiation, and such exposure shall be kept as low as reasonably achievable.
- 4.4 Wages, hours and other terms and conditions of employment applicable to loaned personnel shall be those of the party providing such personnel.
- 4.5 Personnel provided by the responding party or parties shall, at all times during the period in which emergency assistance is being provided, continue to be employees of the responding party or parties and shall at no time and for no purpose be deemed employees of the requesting party.

ARTICLE V REIMBURSEMENT FOR EMERGENCY ASSISTANCE RENDERED

- 5.1 The requesting party shall reimburse each responding party for all costs and expenses incurred by each responding party in providing emergency assistance hereunder. Such costs and expenses shall include.
 - 5.1.1 Salaries and wages paid to loaned personnel (including supervisors) for paid time spent in the requesting party's service area, and paid time for travel to and from such service area;
 - 5.1.2 A percentage of the total of such wages and salaries, as determined by the responding party, reflecting expenses incurred for:
 - 5.1.2.1 Compliance with Worker's Compensation laws;
 - 5.1.2.2 Payroll taxes;
 - 5.1.2.3 Hospitalization, surgical and medical coverage;
 - 5.1.2.4 Pensions and life insurance;

- 5.1.2.5 Vacation, holiday and sick pay;
- 5.1.2.6 Travel accident insurance;
- 5.1.3 Transportation to and from the requesting party's service area, including the cost of travel accident insurance purchased expressly for coverage during such transportation;
- 5.1.4 Food and lodging;
- 5.1.5 Personal expenses specifically agreed to between the requesting and responding parties;
- 5.1.6 Charges, at the rates internally used by the responding party, for the use of transportation equipment and other equipment requested; and
- 5.1.7 Any further costs specifically agreed to between the requesting and responding parties.
- 5.2 All time sheets and work records pertaining to loaned personnel shall be maintained by the responding party.
- 5.3 All charges shall be paid by the requesting party to each responding party within ten (10) days after receipt of an invoice, itemized to the satisfaction of the requesting party.

ARTICLE VI INDEMNIFICATION

- 6.1 The requesting party shall indemnify and hold harmless each responding party from and against any and all liability for loss, damage, cost or expense which the responding party shall incur by reason of bodily injury, including death, to any person or persons, or by reason of damage to or destruction of any property, including the loss of use thereof, arising out of or in any manner connected with the giving of emergency assistance to the requesting party.
- 6.2 In the event of bodily injury, including death, to any employee of the responding party, or in the event of damage to or destruction of any property of the responding party, the requesting party shall indemnify the responding party for such loss in the following manner:
 - 6.2.1 If such loss is covered by an insurance policy purchased by the responding party from a third party carrier, the requesting party shall make reimbursement to the extent such losses increase the responding party's insurance costs, whether such increase in premium refunds, or both;

- 6.2.2 If such loss is not covered by an insurance policy purchased by the responding party or exceeds such coverage, the requesting party shall make reimbursement to the extent of the claims or benefits actually paid or the losses sustained by the responding party.

ARTICLE VII MODIFICATION

- 7.1 At any time after the date of this Agreement any party, by giving not less than thirty days written notice to the other parties, may from time to time call for reconsideration of the terms and conditions of this Agreement. If such reconsideration is called for, the authorized representatives of the parties shall meet as promptly as convenient and discuss any of the terms and conditions of this Agreement. No party shall be under any obligation to agree to any modification or supplement not satisfactory to it. Any agreement modifying or supplementing such terms and conditions shall be in writing, signed by all parties, and shall specify the date such modification or supplement shall become effective.

ARTICLE VIII PLAN EXERCISING

- 8.1 The parties agree to provide, at their own expense, personnel to observe or assist in demonstrating the effectiveness of a nuclear generating station's emergency plan as may be required by that nuclear generating station's NRC approved emergency plan.

ARTICLE IX TERM OF AGREEMENT

- 9.1 This Agreement shall be for a term of three (3) years unless and until terminated as provided for in Section 9.2 below.
- 9.2 Any party, upon sixty (60) days prior written notice to all other parties, may terminate this Agreement.

IN WITNESS WHEREOF, the parties hereto cause this Agreement to be executed by their duly authorized officers on duplicate original pages attached hereto and made a part hereof.

DETROIT EDISON

By: [Signature]
 Title: Sr Vice President
 Date: 7/27/90

CONSUMERS POWER COMPANY

By: [Signature]
 Title: VP Nuclear Operations
 Date: 8-7-90

THE TOLEDO EDISON COMPANY

By: [Signature]
 Title: VP Nuclear, Centerior Service Corp.,
as Agent for Toledo Edison
 Date: 8/31/90

THE INDIANA MICHIGAN POWER COMPANY

By: [Signature] ^{314 9/12/90}
 Title: VP Nuclear Operations
 Date: 9/7/90

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

By: [Signature]
 Title: VP Nuclear - Perry
 Date: 9/28/90

ATTACHMENT A

Requesting Company Letterhead

Date _____, 19__

(Name and Address of
responding organization)

This letter confirms the telephone conversation on (insert date and time) between our _____ and your _____ in which our company requested assistance pursuant to the terms of the Nuclear Power Plant Emergency Response Voluntary Assistance Agreement dated _____ and your organization agreed to provide assistance pursuant to that Agreement.

Please acknowledge your agreement to the foregoing by signing and returning to me the enclosed copy of this letter.

Requesting Company Name and Address

Corporate Officer Signature

Responding Organization Name and Address

Corporate Officer Signature and Date

6.3 Signatories to the Nuclear Power Plant Emergency Response Voluntary Assistance Agreement

The following organizations have signed the Nuclear Power Plant Voluntary Assistance Agreement. This list is current as of July 1, 1990.

Alabama Power Company
Arizona Public Service Company
Baltimore Gas and Electric Company
Boston Edison Company
Carolina Power & Light Company
Centerior Energy Corporation
Commonwealth Edison Company
Consolidated Edison Company of New York, Incorporated
Consumers Power Company
The Detroit Edison Company
Duke Power Company
Duquesne Light Company
Entergy Operations, Incorporated
Florida Power Corporation
Florida Power & Light Company
Georgia Power Company
GPU Nuclear Corporation
Gulf States Utilities Company
Houston Lighting & Power Company
Illinois Power Company
Indiana Michigan Power Company
Iowa Electric Light and Power Company
Long Island Lighting Company
Maine Yankee Atomic Power Company
Nebraska Public Power District
New York Power Authority
Niagara Mohawk Power Corporation
Northeast Utilities
Northern States Power Company
Omaha Public Power District

Signature to the Nuclear Power Plant Company Response Voluntary Assistance Agreement (Cont'd)

Pacific Gas and Electric Company
Pennsylvania Power & Light Company
Philadelphia Electric Company
Portland General Electric Company
Public Service Company of Colorado
Public Service Company of New Hampshire
Public Service Electric and Gas Company
Rochester Gas and Electric Corporation
South Carolina Electric & Gas Company
Southern California Edison Company
Tennessee Valley Authority
TU Electric
The Toledo Edison Company
Union Electric Company
Vermont Yankee Nuclear Power Corporation
Virginia Power
Washington Public Power Supply System
Wisconsin Electric Power Company
Wisconsin Public Service Corporation
Wolf Creek Nuclear Operating Corporation
Yankee Atomic Electric Company

Emergency Response Voluntary Assistance Agreement

This Nuclear Power Plant Emergency Response Voluntary Assistance Agreement (hereinafter "Agreement") has been entered into by and among electric utilities which have responsibility for the construction or operation of commercial nuclear power plants under a license issued by the U.S. Nuclear Regulatory Commission pursuant to Title 10 of the Code of Federal Regulations (hereinafter "nuclear power plants") and which have subscribed counterpart signature pages in the form attached hereto (hereinafter "Parties").

The Parties wish to set forth herein their understanding and agreement with respect to their mutual undertaking to each other in the situation wherein an emergency occurs at a nuclear power plant under the control of or operated on behalf of a Party and a request for assistance is issued to another Party hereto in respect to such emergency and such assistance is provided. This Agreement is intended only to define the terms and conditions under which such assistance, if volunteered, will be rendered and received. It is understood that this Agreement does not impose any obligation on any Party to render or continue to render any such assistance but this Agreement does record the understanding of the Parties with respect to the rights and obligations which will be incurred in responding to requests for assistance.

NOW, THEREFORE, it is agreed, that:

1. Assistance rendered by a Party as described hereunder shall be entirely voluntary and, when given in response to a request by any Party for

help following an emergency arising at a nuclear power plant, shall be rendered in accordance with the terms and conditions herein.

2. The Party that requests assistance shall be known as the "Requesting Company" and the Party furnishing assistance shall be known as the "Responding Company." Attachment A is a suggested letter confirming an agreement whereby assistance will be furnished pursuant to this Agreement.

3. (a) Requesting Company shall notify Responding Company of the type of assistance requested and the anticipated duration during which such assistance is desired. Responding Company shall furnish such assistance as it may decide. Except as such companies may agree otherwise, Requesting Company shall be responsible for determining the procedures to be followed relative to the furnishing of such assistance, directing the work and making any reports to governmental authorities and the news media regarding the emergency or the furnishing of assistance pursuant to this Agreement. Requesting Company shall notify Responding Company when its assistance is no longer needed.

(b) The furnishing of assistance hereunder shall be deemed to have commenced when personnel of the Responding Company are assigned to other than normal duties or transportation of equipment commences pursuant to a determination by the Responding Company to provide assistance to a Requesting Company under this Agreement and shall be deemed to have terminated when the transportation of such personnel or equipment back to their working base, or home (for personnel returning at other than regular working hours), is completed.

(c) The Responding Company shall make all arrangements for the transportation of its personnel and equipment from and to their working base or home.

4. (a) Employees of Responding Company shall at all times continue to be employees of the Responding Company and shall at no time and for no purpose be deemed to be servants, agents, employees, or representatives of the Requesting Company.

(b) Wages, hours, and other terms and conditions of employment applicable to personnel of the Responding Company shall be those of the Responding Company. Work procedures, security, and safety rules for such personnel shall be those of the Requesting Company.

(c) Unless otherwise agreed, all personnel of the Responding Company shall be equipped by the Responding Company with such normal working and protective equipment as shall be compatible with the circumstances under which said personnel shall function hereunder; Requesting Company shall inform Responding Company of any specific equipment which may be required in a particular situation.

5. (a) Responding Company shall furnish the requested personnel and equipment to the extent that the Responding Company may determine to do so in its sole judgment and discretion.

(b) Any information which Responding Company may provide to Requesting Company (including drawings, reports, and analyses), or which Requesting Company provides to Responding Company, which either the Responding Company or the Requesting Company considers proprietary or confidential, shall be so designated. Such proprietary information shall be held in confidence

and shall be used exclusively in connection with the emergency at the nuclear power plant at which the emergency has occurred (including necessary disclosures on a proprietary basis to others in that connection) and shall not be published or otherwise disclosed to others, except as may be required by law.

(c) Responding Company shall have the right, at any time and in its sole judgment and discretion, to withdraw personnel and equipment furnished to the Requesting Company and return such personnel and equipment to its working base. Without limiting Responding Company's rights under the preceding sentence, Responding Company shall attempt to schedule any such withdrawal of its personnel or equipment to accommodate the needs of Requesting Company. Responding Company shall give written notice at least 24 hours in advance to Requesting Company of the permanent withdrawal of personnel or equipment furnished. Responding Company's withdrawal of personnel or equipment shall not affect any obligations which may have been incurred hereunder prior to such withdrawal or which may arise out of events occurring prior to such withdrawal.

6. All time sheets and work records pertaining to Responding Company personnel and equipment shall be kept by the Responding Company. The Responding Company shall furnish the Requesting Company with a detailed statement of all costs and expenses paid or incurred by the Responding Company in connection with the furnishing of assistance to the Requesting Company, which statement shall be paid by Requesting Company within thirty (30) days after receipt.

7. The Requesting Company shall reimburse Responding Company for all direct and indirect costs and expenses, not including a profit, incurred

by Responding Company in giving assistance pursuant to this Agreement, including but not limited to costs and expenses related to or resulting from compliance with governmental requirements such as Title 10 of the Code of Federal Regulations Part 20. Such costs and expenses shall be computed in accordance with Responding Company's standard rates and accounting practices including such overheads as are determined by Responding Company to be applicable to such direct and indirect costs and expenses incurred by Responding Company. Requesting Company shall have the right to audit the records of Responding Company relative to work performed pursuant to this Agreement.

8. (a) In addition, and subject to the provisions of paragraph 8(b) hereof, Requesting Company shall indemnify and hold Responding Company, its officers, directors, and employees, jointly and severally, harmless from and against any and all liability or loss, damage, cost, or expense which any of them may incur by reason of bodily injury, including but not limited to death, to any person or persons, or by reason of damage to or destruction of any property, including but not limited to any property located at the site of the Requesting Company's nuclear power plant or the loss of use of any property, which results from furnishing assistance pursuant to this Agreement, whether due in whole or in part to any act, omission, or negligence of Responding Company, its officers, directors, or employees.

(b) Where payments are made by Responding Company or its insurers to Responding Company's officers, directors, or employees or their beneficiaries for bodily injury or death resulting from furnishing assistance pursuant to this Agreement, including but not limited to workers' compensation, disability, pension plan, medical and hospitalization, or other

such payments, Requesting Company shall make reimbursement to Responding Company to the extent such payments increase the Responding Company's employee-related costs, whether such increase in costs occur in the form of an increase in premiums or contributions, a reduction in dividends or premium refunds, or otherwise. Requesting Company shall also reimburse Responding Company for any deductible amounts or for any amounts paid by Responding Company as a self-insurer. Responding Company will request its insurer to waive any right of subrogation it may have against Requesting Company as a result of any payment described in this paragraph 8(b) which such insurer may make on behalf of Responding Company because of Responding Company's furnishing of assistance pursuant to this Agreement.

(c) Responding Company makes no warranty with respect to any goods or services provided to Requesting Company and NO WARRANTY, EITHER EXPRESS OR IMPLIED, ORAL OR WRITTEN, SHALL APPLY TO THE GOODS OR SERVICES PROVIDED, INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR SPECIFIED OR INTENDED PURPOSE. All equipment and services furnished by Responding Company pursuant to this Agreement are furnished as is.

(d) In the event any claim or demand is made or suit, action, or proceeding is filed against Responding Company, its officers, directors, or employees, jointly or severally, alleging liability for which Requesting Company shall indemnify and hold harmless Responding Company, its officers, directors, and employees under this paragraph 8 hereof, Responding Company shall promptly notify Requesting Company thereof, and Requesting Company, at its sole cost and expense, shall settle, compromise, or defend the same in such manner as it in its sole discretion deems necessary or prudent.

Responding Company shall cooperate with Requesting Company in the resolution of any such matter.

(e) Each Party to this Agreement agrees to carry the amount of financial protection required by the Atomic Energy Act of 1954, as amended, and self-insurance or comprehensive liability insurance, including contractual liability coverage, covering the indemnification and defense obligations set forth herein, subject to such types and amounts of self-insurance, retentions, or deductibles as are consistent with good business practice in the industry.

(f) In the event a Responding Company provides assistance pursuant to this Agreement through an affiliate or subsidiary, the indemnification provided in this paragraph 8 to the officers, directors, and employees of that Responding Company shall apply with equal force to the officers, directors, and employees of that affiliate or subsidiary.

9. Each Party shall provide the Institute of Nuclear Power Operations (hereinafter "INPO") with an executed counterpart signature page to this Agreement and to any amendments hereto. This Agreement shall become effective when counterpart signature pages executed by at least two Parties shall have been received by INPO. This Agreement shall remain in effect as to any Party until such Party has withdrawn from the Agreement as provided below. Any electric utility with responsibilities for the construction or operation of a nuclear power plant may become a Party upon execution of the Agreement.

10. (a) INPO may provide certain administrative and emergency response support services in furtherance of this Agreement, such as maintaining and distributing to the Parties a roster of the signatories to

this Agreement; providing copies of the Agreement and any amendments thereto to all Parties; and preparing and distributing to the Parties other documents, such as a list of sources of emergency manpower and equipment. INPO may provide such other services as may be requested of INPO from time to time by the Parties. The Parties recognize that INPO shall not be responsible for implementing, enforcing, or interpreting this Agreement.

(b) The Parties shall defend, indemnify, and hold harmless INPO, its officers, directors, and employees, jointly and severally, from and against any and all liability or loss, damage, cost, or expense which results from performance of INPO's functions described in paragraph 10(a) of this Agreement, except as may result from the sole negligence or willful misconduct of INPO, its officers, directors, or employees. Each Party hereby expressly waives any right it may have to assert any claim against INPO, its officers, directors, or employees arising out of its or their performance of INPO's functions described in paragraph 10(a), except as may result from the sole negligence or willful misconduct of INPO, its officers, directors, or employees.

(c) Following an emergency at a nuclear power plant, INPO may, if asked to do so by a Requesting Company, help to locate sources of emergency manpower and equipment with which the Requesting Company may contract for assistance. The Requesting Company may ask INPO to furnish personnel or equipment following an emergency arising at a nuclear power plant. If INPO does furnish such assistance and unless otherwise agreed by INPO and the Requesting Company, the Requesting Company and INPO shall have the same rights and obligations as if INPO were a Responding Company (including but not limited to the Requesting Company's obligations to INPO, its officers,

directors, and employees under paragraph 8 hereof), except that paragraphs 6 and 7 shall not apply either to Requesting Company or INPO and paragraph 8(e) shall not apply to INPO.

11. This Agreement will not create any rights or defenses in favor of any entity or person not a signatory to this Agreement except to the extent provided in this paragraph and in paragraphs 8 and 10 of this Agreement. This agreement shall be binding upon and inure to the benefit of each signatory to this Agreement and the subsidiaries and affiliates of each such signatory.

12. Except as otherwise provided in paragraph 13, any Party may withdraw from this Agreement upon at least thirty (30) days prior written notice to INPO with a copy to all of the other Parties. Notice of withdrawal shall not affect any obligations which may have been incurred hereunder prior to the effective date of such notice or which may arise out of events occurring prior to the date. No Party may withdraw from this Agreement while it is receiving assistance pursuant to this Agreement.

13. This Agreement may be amended by the agreement of a majority of the Parties hereto. Such amendment shall be effective and binding upon all Parties thirty (30) days after INPO has received counterpart signature pages for the amendment executed by at least a majority of the Parties to the Agreement. INPO shall notify all Parties when at least a majority of the Parties have executed an amendment to the Agreement. No amendment shall affect any obligation which may have been incurred hereunder prior to the effective date of such amendment or which may arise out of events occurring prior to that date. Notwithstanding the first sentence of paragraph 12, any Party may withdraw from this Agreement by submitting written notice to INPO at

any time during the thirty (30) day period prior to the effective date of such amendment with a copy to all of the other Parties.

14. If any provision of this Agreement is determined to be invalid or unenforceable as to any Party or otherwise, such determination shall not affect the validity or enforceability of the other provisions of this Agreement as to that Party or otherwise.

15. In the event (i) an emergency occurs at a nuclear power plant under the control of or operated on behalf of a Party; (ii) a request for assistance is issued to another Party hereto in respect to such emergency; and (iii) such assistance is provided, this Agreement shall be construed in accordance with the law of the State in which the nuclear power plant is located with respect to all rights and obligations arising out of such emergency.

COUNTERPART SIGNATURE PAGE

The undersigned company hereby agrees to become a Party to the
Nuclear Power Plant Emergency Response Voluntary Assistance Agreement dated
July 1, 1982.

Date _____ Company _____

By _____
Corporate Officer Signature

AUG 22 1991



Institute of
Nuclear Power
Operations

Suite 1500
1100 Circle 75 Parkway
Atlanta, Georgia 30339-3064
Telephone 404 953-3600
Telefax 404 953-7549

August 20, 1991

Mr. Thomas A. McClimans
Consulting Engineer
American Electric Power Service
Corporation
One Riverside Plaza
P. O. Box 16631
Columbus, OH 43216-6631

10-15-17-17
2) TTH J
cc JSL
JSL

Dear Mr. McClimans:

In support of your utility's emergency plan, this letter provides the annual certification of the assistance agreement between INPO and its member utilities. In the event of an emergency at your utility, INPO will assist you in acquiring the help of other organizations in the industry, as described in Section 1 of the *Emergency Resources Manual*, INPO 86-032. In addition, INPO will provide assistance by utilizing its own resources, as requested and as appropriate.

This agreement will remain in effect until terminated in writing. Please forward a copy of this letter to your emergency preparedness department for use in updating your emergency plan.

Should you have questions, please contact me at (404) 951-4742 or Sam Newton, manager, Emergency Preparedness Department, at (404) 953-7646.

Sincerely,

A handwritten signature in cursive script, reading "John F. Groth".
John F. Groth
Vice President and Director
Analysis Division

JFG:ds

cc: Mr. A. Alan Blind

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April 1988

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Coordination Agreement

on

Emergency Information

Among

U.S. Council for Energy Awareness (USCEA)

Electric Power Research Institute (EPRI)

Institute of Nuclear Power Operations (INPO)

Nuclear Management and Resources Council (NUMARC)

and

Their Member Utilities

In order to provide for the efficient and timely transfer of technical and public information regarding classified emergencies at nuclear power stations and to maximize their assistance roles to their utility members and the industry, the U.S. Council for Energy Awareness, the Electric Power Research Institute, the Institute of Nuclear Power Operations and Nuclear Management and Resources Council have agreed to coordinate their actions and activities as outlined in this agreement.

It is explicitly recognized that the primary responsibility for release of appropriate information concerning an Emergency situation to the public and the news media rests with the affected utility. The purpose of this agreement is to provide a coordinated process by which these organizations can effectively convey information to the rest of the industry and to the media, in order to lessen the burden on the affected utility.

A. Among the four organizations involved in this coordination agreement, USCEA will provide information concerning industrywide implications of an Emergency, and will use existing mechanisms and media contacts to disseminate timely information on the events themselves.

1. USCEA will develop and issue, in coordination with the affected utility, appropriate public statements to the news media, as necessary.

2. USCEA will use INFOWIRE to relay information about the Emergency to the industry.

3. USCEA will place its statements issued to the news media on INFOWIRE and provide the INFOWIRE to INPO to be placed on the Emergency Hot Line topic of NUCLEAR NETWORK.

4. USCEA will make its information available to EEI, EPRI, NUMARC, and ANEC.

B. INPO will provide the NUCLEAR NETWORK electronic communications system to its members, USCEA, NUMARC, and EPRI to facilitate the flow of media and technical information about the Emergency to other INPO members and participants.

C. INPO will coordinate the flow of technical information among the parties to the agreement.

1. INPO will furnish to EPRI and NUMARC technical information relevant to the Emergency as obtained from the utility and/or available in its own data bank.
 2. INPO will maintain information on utility industry assistance capabilities and coordinate the deployment of persons and material under its Nuclear Plant and Transportation Agreements, as requested by the affected utility.
 3. INPO will develop and disseminate to its members significant event reports regarding the Emergency as appropriate.
- D. EPRI will maintain an emergency response capability and will be available for consultation and to conduct in-depth analyses of the Emergency as appropriate.
- E. Both EPRI and INPO will be available to assist the affected utility through their analysis capabilities. EPRI and INPO will coordinate such efforts with each other.
- F. NUMARC will maintain an emergency response capability for consultation on regulatory issues.
- G. USCEA, EPRI, NUMARC, and INPO will encourage the use of USCEA and INFOWIRE for media information and the INPO NUCLEAR NETWORK for technical information flow.

H. USCEA, EPRI, NUMARC, and INPO agree to develop and share written procedures governing emergency notifications and points of contact that provide for cross-notification for emergencies classed at the "alert" or higher level.

Richard E. Balzhiser
President
Electric Power Research Institute

Bryon Lee, Jr.
President
Nuclear Management and Resources Council

Zack T. Pate
President
Institute of Nuclear Power Operations

Harold B. Finger
President
U.S. Council for Energy Awareness

EMERGENCY MEDICAL ASSISTANCE AGREEMENT

BETWEEN

THE PAWATING HOSPITAL AND

THE DONALD C. COOK NUCLEAR PLANT

This letter establishes an agreement between Indiana Michigan Power Company's Donald C. Cook Nuclear Plant ("Plant") and the Pawating Hospital in Niles, Michigan ("Hospital"). In the event of a radiation or contamination injury to personnel on site, or members of the general public off site, resulting from operation of the Plant, Hospital agrees to provide emergency medical services support to the Plant and the Michigan State Police/Emergency Management Division.

Hospital agrees to maintain the necessary hospital personnel trained in the specific methods of treating patients contaminated with radioactive materials. Retraining will be performed no less than annually. The Hospital will maintain a system for receiving patients in a designated area of the hospital.

Hospital agrees to maintain emergency medical service on a 24-hour per day, seven days per week basis for both on site personnel at the Plant and members of the general public off site who may be injured as a result of an emergency event at the plant. The Hospital will have at least one physician and one nurse available within about two hours who can supervise the evaluation and treatment of radiologically contaminated persons.

Plant agrees that as part of this agreement, Hospital may utilize on-call consultation services available from Radiation Management Consultants ("RMC") pursuant to RMC's contract with the Plant, in the event of a radiation or contamination injury requiring additional support or expertise.

Plant agrees to provide trained Health Physics personnel to supplement the Hospital staff in the event of a contamination injury at the Plant site. The Plant will coordinate with the Michigan State Police/Emergency Management Division to provide this support in the event of a contamination injury off site resulting from an emergency at the Plant.

Plant agrees to provide all unique procedures, training, equipment, equipment maintenance and consumable materials required to enable Hospital to provide this service.

Plant agrees to decontaminate all Hospital equipment and facilities that become contaminated as a result of treatment of a victim, and to dispose of the associated waste.

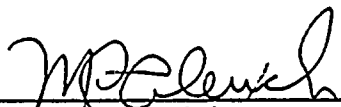
Plant agrees to conduct and Hospital agrees to participate in joint drills that include Plant personnel and Hospital personnel.

Emergency Medical Assistance Agreement
Between the Pawating Hospital and
the Donald C. Cook Nuclear Plant
Page 2

Both parties agree that, upon loss of the Plant Operating License issued by the U. S. Nuclear Regulatory Commission or loss of the Hospital JCAH accreditation, this agreement will terminate immediately.

Any party, upon ninety (90) days prior notice by registered letter to the other party, may terminate this agreement.

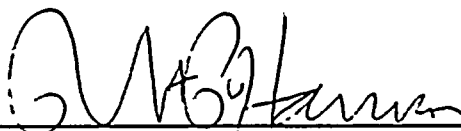
As indication of your agreement to the above statements concerning our mutual responsibilities, please sign below.



M. P. Alexich
Vice President
Indiana Michigan Power Company

205
8/16/90

Dated: 8/20/90



Pawating Hospital

Dated: 9/10/90

C. Lodging:

Holiday Inn - Benton Harbor	616-925-3234
Holiday Inn - St. Joseph	616-983-7341
Ramada Inn - Benton Harbor	616-927-1172
Carlton Lodge - Benton Harbor	616-925-3000

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D. Transportation Available:

Hertz:	616-927-2161
Avis:	616-926-2151

E. Police Escorts - May be required. Coordinate requirement with County and/or State Police.

F. Police Vehicles for Communication Augmentation:

Coordinate specific requirements and request with Berrien County and/or State Police as available.

State Police Frequency	- 42.58 Hz
County Sheriff	- 155.370 Hz

G. Travel Routes:

From Argonne: Take Interstate 80/94 east.
Take I-94 east to the Pipestone Road exit.
Turn right to Meadowbrook Road.
Left on Meadowbrook to the I&M Power
Company Service Building.

H. Medical Facility Location:

Mercy-Memorial Medical Center - 1234 Napier Avenue
Saint Joseph, MI
616-983-8300

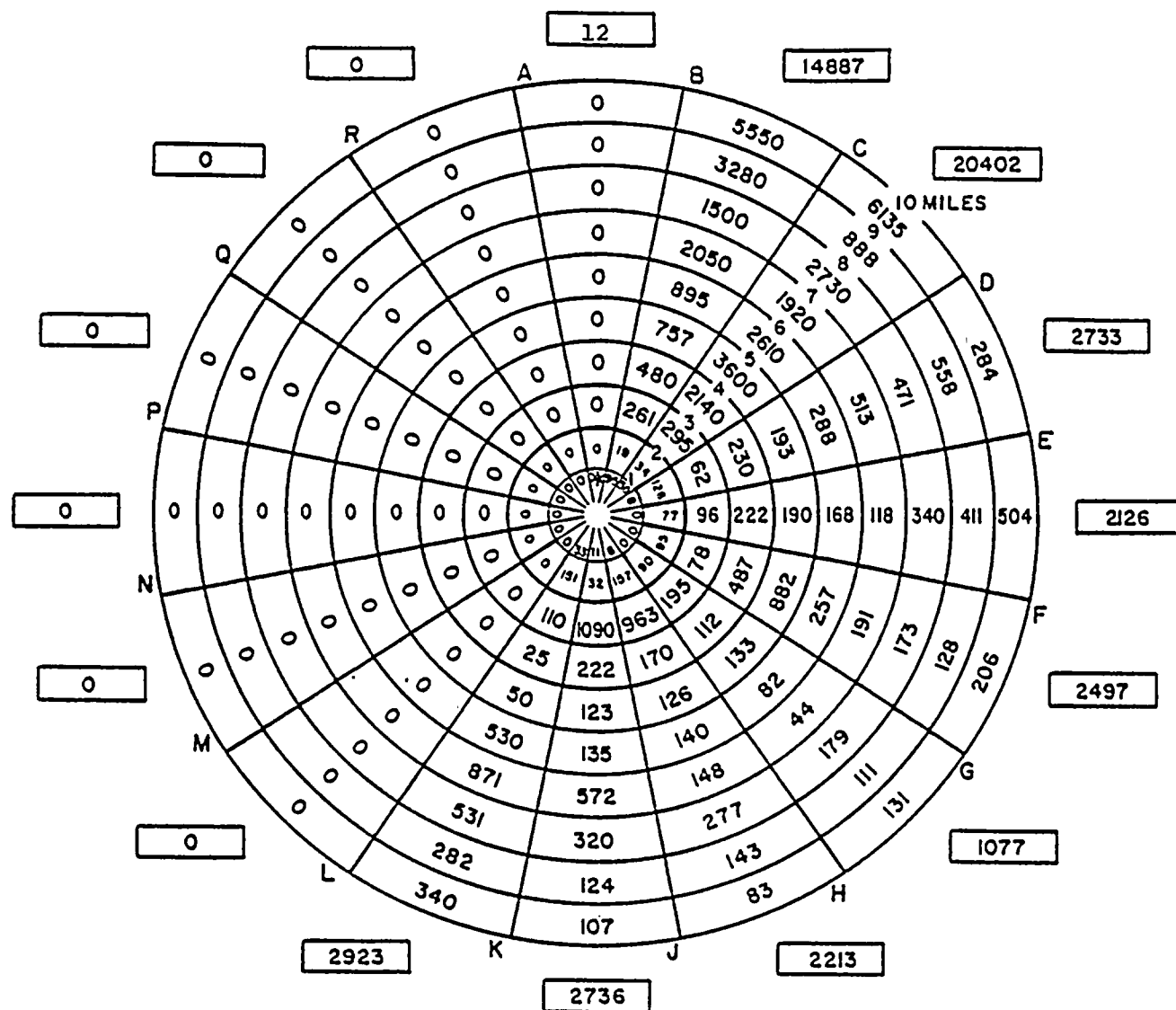
Pawating Hospital - 31 North St. Joseph Avenue
Niles, MI 616-683-5510

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I. Maps of Sampling Points - Provided as required.

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Page 1



* 1989 survey indicated 12 "summer only" residents inside Sector A. Area to be included in Sector B protective actions. These residents are not included in the population totals.

POPULATION TOTALS			
RING, MILES	RING POPULATION	TOTAL MILES	CUMULATIVE POPULATION
0 - 1	203	0 - 1	203
1 - 2	781	0 - 2	984
2 - 3	3150	0 - 3	4134
3 - 4	4088	0 - 4	8222
4 - 5	6054	0 - 5	14276
5 - 6	5105	0 - 6	19381
6 - 7	6427	0 - 7	25808
7 - 8	6531	0 - 8	32329
8 - 9	5925	0 - 9	38254
9 - 10	13340	0 - 10	51594

REF: BASED ON 1980
POPULATION CENSUS

SIX YEAR PLAN FOR EMERGENCY PREPAREDNESS ACTIVITIES

AT THE DONALD C. COOK NUCLEAR PLANT

SIX YEAR ITEMS

	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>
1. Exercise with full State and County participation involving the ingestion exposure pathway.	X						0
2. Exercise with State and County participation.		X		X	0		
3. Unannounced exercise with full State and County participation.			X				
4. Exercise with full State and County participation initiated between 6:00 p.m. and 4:00 a.m.			X				
5. Exercise with full State and County participation.						0	

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Notes: ¹ For those requirements related to the six-year compliance period for selected exercise activities delineated above, the first six year cycle for the Donald C. Cook Plant ends in 1988. The second six year cycle runs from 1989 to 1994. The plan presented above ensures compliance with both the NRC and FEMA periodic exercise requirements.

-K-2-

Revision 10

SIX YEAR PLAN FOR EMERGENCY PREPAREDNESS ACTIVITIES

AT THE DONALD C. COOK NUCLEAR PLANT

ANNUAL ITEMS	1991												1992												87	88	89	90	91	92	93	94
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC																	
1. Annual Graded Exercise																																
1a. Meeting with State and County to finalize exercise objectives.																									X	X	X	X	0	0	0	0
1b. Exercise scope, objectives and timeline submitted to NRC/FEMA.												0													X	X	X	X	X	0	0	0
1c. Exercise scenario submitted to NRC/FEMA.												0													X	X	X	X	X	0	0	0
1d. Train controllers/evaluators.													0												X	X	X	X	X	0	0	0
1e. Conduct the exercise.														0											X	X	X	X	X	0	0	0
1f. NRC/FEMA critiques.														0											X	X	X	X	X	0	0	0
2. Annual Media Briefing															0										X	X	X	X	X	0	0	0
3. Review Emergency Action Levels with State and County authorities			0										0												X	X	X	X	X	0	0	0
4. Verify dates of letter of agreement in the Emergency Plan				0																					X	X	0	X	0	0	0	0
5. Review documentation to ensure Emergency Response Organization personnel have received required training in the past year.			0																					0	X	X	X	X	X	0	0	0

SIX YEAR PLAN FOR EMERGENCY PREPAREDNESS ACTIVITIES

AT THE DONALD C. COOK NUCLEAR PLANT

ANNUAL ITEMS	1991												1992												87	88	89	90	91	92	93	94
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC																	
6. Test of communications between the Cook Plant, State and County EOCs and Field Assessment Teams														0			X	X	X	X	X	X	0	0	0							
7. Review of Emergency Preparedness Program pursuant to 10CFR50.54(t) (NSDRC Audit)					0												X	X	X	X	X	0	0	0								
8. Letter to State and County making interface evaluation portion of 50.54(t) review available to them.								0									X	X	X	X	X	0	0	0								
9. Distribution of Emergency Preparedness Public Information Brochure			0												0		X	X	X	X	0	0	0	0								
10. Fire drill with off-site support participation (conducted per Plant Technical Specifications).	X												0				X	X	X	X	X	0	0	0								
11. Training for plant, hospital, and ambulance personnel on the handling and treatment of contaminated/injured personnel.												0					X	X	X	X	X	0	0	0								

SIX YEAR PLAN FOR EMERGENCY PREPAREDNESS ACTIVITIES

AT THE DONALD C. COOK NUCLEAR PLANT

ANNUAL ITEMS	1991												1992												87	88	89	90	91	92	93	94																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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12. Medical emergency drill involving a contaminated individual.												0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					</

SIX YEAR PLAN FOR EMERGENCY PREPAREDNESS ACTIVITIES

AT THE DONALD C. COOK NUCLEAR PLANT

SEMI-ANNUAL ITEMS

<u>SEMI-ANNUAL ITEMS</u>	<u>1991</u>					<u>1992</u>					<u>87</u>	<u>88</u>	<u>89</u>	<u>90</u>	<u>91</u>	<u>92</u>	<u>93</u>	<u>94</u>						
	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>									
1. Semi-annual backshift augmentation drill.			0						0					0		0	X	X	X	X	0	0	0	0
2. Semi-annual Health Physics Drill involving the response to and analysis of simulated airborne and liquid samples and direct radiation measurements in the environment.		0						0						0			X	X	X	X	X	0	0	0

QUARTERLY ITEMS

1. Verification of plant personnel Notification Telephone Numbers. (see PMP 2080 EPP.107)	X		0			0			0			0		0	X	X	X	X	X	0	0	0	0
2. Verification of Initial Notification Telephone Numbers (see PMP 2080 EPP.106 Exhibits B & C).	X		0			0			0			0		0	X	X	X	X	X	0	0	0	0
3. Fire Emergency Drill.			0			0			0			0		0	X	X	X	X	X	0	0	0	0
4. Operability checks, per Radiation Protection Procedures.			0			0			0			0		0	X	X	X	X	X	0	0	0	0
5. Inventories, per 12 THP 6010 RPP.009 and 12 SHP 2270 FIRE.006.			0			0			0			0		0	X	X	X	X	X	0	0	0	0

SIX YEAR PLAN FOR EMERGENCY PREPAREDNESS ACTIVITIES

AT THE DONALD C. COOK NUCLEAR PLANT

MONTHLY ITEMS

	<u>1991</u>												<u>1992</u>												<u>87</u>	<u>88</u>	<u>89</u>	<u>90</u>	<u>91</u>	<u>92</u>	<u>93</u>	<u>94</u>
	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>																	
1. State and County EOC (within EPZ) communication tests.	X	X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	X	X	X	X	0	0	0	0								
2. NRC Headquarters and Regional Office communications test (CR, TSC, EOF).	X	X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	X	X	X	X	0	0	0	0								

