

La Crosse Boiling Water Reactor LACBWR

EMERGENCY PLAN PROCEDURE

ORGANIZATION AND OPERATIONS DURING EMERGENCIES



Record and Control of Initial Issue, Revisions & Periodic Reviews

Issue	Prepared By or Periodic Rev. By Signature	Date	Operations Supv. Review Signature	Date	QA Supervisor Review Signature	Date	Health & Safety Review** Signature	Date	Appv'd & Issued* Effective Date of Issue
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1	J.D. Parby	5/8/81	[Signature]	5/10/81	[Signature]	5/10/81	[Signature]	5/8/81	5/8/81
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3	Paul W. Shapiro	11-23-81	[Signature]	11/28/81	[Signature]	1-27-82	[Signature]	6 Jan 82	1/24/82
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4	Paul W. Shapiro	3/6/82	[Signature]	3/10/82	[Signature]	3/10/82	[Signature]	3/8/82	J.D. Parby 5/17/82
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LACBWR

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ORGANIZATION AND OPERATIONS DURING EMERGENCIES

Issue Notice No. 5 Dated 7/1/82

INSTRUCTIONS

Remove Old Page No.	Insert New Page No.	Description Of and Reason for Change
Remove and discard Pages 0.1, 0.2, 6, 8 thru 21, and 29 thru 59, of EPP-2, Issue 4.	Insert Pages 0.1, 0.2, 6, 8 thru 21, and 29 thru 62 of EPP-2, Issue 5.	Procedure revision to reflect the changes in the Emergency Plan, Revision 1, and to incorporate shift augmentation capabilities and methods.

PAGE SCHEDULE

<u>No.</u>	<u>Issue</u>	<u>No.</u>	<u>Issue</u>	<u>No.</u>	<u>Issue</u>	<u>No.</u>	<u>Issue</u>
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0.2	5	16	5	32	5	48	5
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12	5	28	4	44	5	60	5
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14	5	30	5	46	5	62	5

This issue shall not become effective unless accompanied by a new cover sheet properly signed off in the appropriate review/approval columns.

LACBWR

EMERGENCY PLAN PROCEDURE

ORGANIZATION AND OPERATIONS DURING EMERGENCIES

1.0 PURPOSE

This procedure delineates authority, responsibility and limits on actions of Dairyland Power Cooperative management during emergencies at the La Crosse (BWR). This procedure defines the actions to be taken under the La Crosse (BWR) Emergency Plan to direct emergency response and guides the Emergency Control Director and his emergency staff in controlling the emergency. It further delineates the interactions between plant and cooperative personnel, and between cooperative and off-site emergency organizations. The procedure provides means of documenting all key emergency operations parameters and radiological assessment communications between the Control Room, the Technical Support Center, the Emergency Operations Facility and Offsite Emergency Agencies.

2.0 REFERENCES

- 2.1 NUREG-0654, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November, 1980.
- 2.2 NUREG-0696, "Functional Criteria for Emergency Response Facilities," February, 1981.
- 2.3 LACBWR Emergency Plan, Revision 1, March, 1982.
- 2.4 Emergency Plan Procedure 1, "Emergency Conditions and Response."

3.0 DEFINITIONS/RESPONSIBILITIES

- 3.1 The Emergency Control Director (ECD) is the Cooperative management person responsible for overall direction of the response to the emergency condition. Initially, this role will be performed by the Duty Shift Supervisor. If the accident escalates to a Site Area Emergency, or the Emergency Operations Facility is activated, a key Cooperative Manager as listed in Appendix C will become the Emergency Control Director. The ECD will assign responsibilities to other staff personnel as required. HE WILL NOT, HOWEVER, ASSIGN THE ULTIMATE DECISION OF RECOMMENDED SHELTERING OR EVACUATION TO STATE AUTHORITIES, NOR INITIATION OF REENTRY/RECOVERY OPERATIONS. THE ECD is the focal point of all emergency activities. The operation and safe shutdown of the facility remains the responsibility of the Duty Shift Supervisor.

The ECD has the authority to request outside assistance from State, Federal, local governmental agencies, DPC staff personnel, consultants or any other response organizations. He has the responsibility to augment plant staff as requested by the Duty Shift Supervisor, Technical Support Center (TSC) staff as requested by the Onsite Emergency Response Director or the Emergency Operations Facility (EOF) Staff. The ECD is responsible for the dissemination of emergency information to all off-site emergency support agencies, and to the public via the joint public information center (JPIC). The ECD is the single spokesperson for Dairyland Power Cooperative if an emergency condition exists at LACBWR and all information to be released to non-DPC emergency personnel must be cleared through the ECD. The ECD's Secretary/Recorder maintains documentation of messages received or transmitted to and from the EOF, other than from LACBWR, on the Emergency Communication Form included as Table 3.

- 3.2 The Onsite Emergency Response Director (ERD) is responsible for the coordination of the total site response effort and has full authority for all activities at LACBWR. He is responsible for implementation of onsite aspects of the Emergency Plan. Initially this role will be performed by the Duty Shift Supervisor. If the accident escalates to an Alert, or the Technical Support Center is activated, a key LACBWR Manager as listed in Appendix B will become the Onsite Emergency Response Director. He directs technical assistance given the operations and radiation protection staffs by the TSC staff for implementation of in-plant recovery effort in a manner which minimizes effect to the public health and safety. The ERD also provides technical advice to the ECD concerning the overall emergency direction upon request from the ECD. The ERD reports to the ECD upon activation of the Emergency Operations Facility.
- 3.3 The Onsite Operations Parameters Director (OPD) is responsible for obtaining current reactor operations parameters by direct communications from the control room for use by the TSC staff through a plant parameters communicator. The OPD advises the Duty Shift Supervisor in control of specific plant parameters necessary to prevent accident escalation. Upon request from the ECD in the EOF, the OPD may provide technical advice to the EOF. It is preferable that the OPD have a Senior Reactor Operators License. The OPD answers directly to the Onsite Emergency Response Director. He maintains documentation of reactor operations parameters by using Reactor Operations Parameters Communications Forms in Table 4.

- 3.4 The Onsite Radiological Assessment Director (RAD) is responsible for obtaining current plant radiological conditions by direct communications with the Control Room, HP Technicians surveying inside the plant and HP Technicians surveying within the site boundary. The RAD directs inplant and onsite HP Technician survey teams and assists the OPD in evaluation of plant parameters which might result in unnecessary release of radioactive materials to the environment. The RAD is responsible for initial calculations of off-site doses or projections of those doses based on effluent releases of radioactive material and current site meteorology. Upon request from the ECD in the EOF, the RAD may provide technical advice to the EOF staff. The RAD answers directly to the Onsite Emergency Response Director. He maintains documentation of plant radiological parameters by using In-Plant Radiological Parameters Communications Forms listed in Table 5.
- 3.5 The Cooperative Operations Parameters Director (OPD) is responsible for obtaining all current operations parameters from the Control Room. The OPD reports directly to the ECD upon activation of the EOF. The OPD is responsible for technically advising the ECD on current reactor conditions and safety system functions. The OPD establishes direct communications with the Control Room, and may concurrently establish direct communications with the TSC, through a Technical Communicator who documents all messages on Table 4. Operations advice from the ECD to the plant are communicated through the OPD.
- 3.6 The Cooperative Radiological Assessment Director (RAD) is responsible for obtaining all current radiological parameters available to the TSC. He reports directly to the ECD upon activation of the EOF. The RAD is responsible for technically advising the ECD on current plant radiological conditions and advises the ECD on off-site radiological conditions. The RAD works closely with the ECD and recommends public protective actions to the ECD. He is responsible for final calculation of off-site dose estimates based on radioactive releases and meteorological conditions. He is responsible for the overall direction of off-site radiological assessment including the In-Field RAP teams. The RAD establishes direct communication with a HP Technician in the Control Room, and/or the plant RAD through a Technical Communicator who documents messages on Table 4. Radiological advice from the EOF to the onsite RAD are communicated by the Cooperative RAD.

- 3.7 The Cooperative In-Field Radiological Assessment Director (IRAD) is responsible for all actual off-site radiological assessments. In conjunction with the plant RAD, the IRAD coordinates the activities of all in-field radiological assessment parameters (RAP) teams. The IRAD reports to the cooperative RAD. The IRAD is responsible for comparing calculated off-site dose estimates with actual RAP team assessment. The IRAD secretary/recorder documents all messages on Table 5. He works closely with the Cooperative RAD at the EOF to assess necessary Public Protective Actions.
- 3.8 The Off-site Dose Calculations and Trajectory Specialist is responsible for actual calculations of off-site dose estimates based on available meteorological data and radiological release data supplied by the HP Technician in the Control Room or the onsite RAD or actual field data supplied by the RAP team. He also determines projected trajectory of the radioactive material released from the plant and plots this on maps in the EOF. His computed data is supplied to the RAD and IRAD for their assessment of proper in-field RAP Team placement and analysis of recommended public protective actions.
- 3.9 The Cooperative Emergency Support Director (ESD) is responsible for obtaining additional cooperative or outside manpower or equipment as necessary for LACBWR re-entry/recovery operations. He reports directly to the Emergency Control Director. He reports to the La Crosse Office upon notification by the ECD. (Refer to Appendix D).
- 3.10 The Public Information Director (PID) is responsible for the activation and operation of the Joint Public Information Center (JPIC). He reports to the Emergency Control Director and obtains all information to be disseminated to the public from the ECD. He is the official company spokesman for the emergency. He will assure that this concept of "single spokesman" is in fact carried out to avoid even minimal contradictions of detail or analysis. He is responsible for arranging interviews, for statements quoted in press releases or other announcements, and for presiding at formal press conferences. He coordinates information at the news center with his counterparts from local, state, and federal agencies and with other companies involved with the emergency, and provides a means of meeting the media's needs.
- 3.11 The Cooperative Emergency Communications Director will be used as necessary by the ECD to augment or repair communications equipment. (Refer to Appendix D).

4.0 PROCEDURE INDOCTRINATION

This procedure is organized into 6 sections corresponding to the 4 activity levels outlined in EPP-1 - "UNUSUAL EVENT," "ALERT," "SITE AREA EMERGENCY," and "GENERAL EMERGENCY," and generic, initiating, or de-escalating requirements. Each response section is prepared as though the activity event occurs on backshift. The Emergency Control Director is initially the Duty Shift Supervisor. Each section has a checklist. The Control Room and TSC checklists are the official checklists except when the EOF is activated. The checklist maintained at the EOF is the official checklist during EOF activation. All checklists used should be retained.

Any communication system out of service or non-working phone numbers should be referred to EPP-3, "Communications," for such alternatives as exist.

4.1 ALL EMERGENCY ACTION LEVELS

4.1.1 The Duty Shift Supervisor is the Emergency Control Director and the Onsite Emergency Response Director, as well as the Supervisor of reactor operations and manipulation of controls. He will assess the abnormal event, and using EPP-1, determine the appropriate emergency action level. He will initiate all actions as necessary to bring the plant to a safe shutdown.

4.1.2 Notify the Shift Technical Advisor.

4.1.3 After determining the appropriate Emergency Action Level, turn to the appropriate section of this procedure.

Unusual Event-----Section 4.2
Alert-----Section 4.3
Sire Area Emergency-----Section 4.4
General Emergency-----Section 4.5

4.1.4 The CAS Operator may be required to act as a control room communicator to assist in notification.

4.2 UNUSUAL EVENTS

4.2.1 Notify the Plant Superintendent or Alternate. Notify Radiation Protection Management if event involves unmonitored release of radioactivity, degradation of plant effluent monitors or significant personnel contamination. (See Appendix A).

4.2.2 Notify the USNRC via the ENS network (red phone).

4.2.3 Call up any offsite resources required to assist in bringing the Emergency Plan activities to a closeout.

4.2.4 Escalate Emergency Response by turning to the appropriate EAL section of this procedure, or deactivate the Emergency Plan by turning to Section 4.6.10, "Deactivation of Emergency Plan."

4.3 ALERT

- 4.3.1 The CAS operator will assist the Shift Supervisor in communications and notification. An automatic dialer to accelerate notifications of primary LACBWR emergency response personnel is located in the CAS. To notify key individuals carrying pagers, use buttons 1A and 2A on the auto dialer, or call _____ and _____. When the beeping stops, the CAS operator should clearly state: "REPORT TO YOUR RESPONSE STATION," repeat message twice more, and then cancel the call.

Activate the Technical Support Center by calling personnel listed on the Technical Support Center roster. (Appendix B)

(Onsite Emergency Response Director)

(Onsite Operations Parameter Director)

(Onsite Radiological Assessment Director)

(Duty Shift Supervisor Initials)

- 4.3.2 Notify the ECD in Appendix D to standby a telephone with a known number that will be indicated below. Upon activation of the EOF, additional individuals listed in Appendix C will be notified.

(ECD)

(Phone No.)

(Duty Shift Supervisor Initials)

- 4.3.3 Notify Vernon County Sheriff via _____ or _____ or NAWAS and Wisconsin Warning Center 1 (Wisconsin Division of Emergency Government) via NAWAS or _____ that an alert is being declared and the offsite agencies should be placed on a standby basis. The message should state: "This is (Caller's Identification) calling from the La Crosse Boiling Water Reactor. An alert has occurred at LACBWR. This call is being made to comply with NRC notification requirements only and no assistance or other action by your agency is required at this time."

(Duty Shift Supervisor)

- 4.3.4 Notify the USNRC via the ENS network (red phone).

(Duty Shift Supervisor)

- 4.3.5 Once the Technical Support Center is activated, establish liaison with the Technical Support Center. A plant parameters communicator will be called to the TSC. (Appendix B)

ERD Initials

- 4.3.6 Augment the staff as needed in accordance with Appendix G.

ERD Initials

- 4.3.7 If a radiological condition activated the alert level, obtain air and ground surveys (as outlined in EPP-7), observing appropriate precaution as outlined in EPP-6.

RAD Initials

- 4.3.8 If the activating event could result in exposure to the public in excess of those resulting from normal maximum allowable operating levels (as defined by LACBWR Technical Specifications), notify the Vernon County Sheriff at \ _____ / or NAWAS of wind speed and direction.

RAD Initials/ERD Initials

- 4.3.9 Determine potential offsite doses (Reference EPP-5) and notify the Vernon County Sheriff of resulting estimates (Phone \ _____ . If those estimates indicate exceeding Environmental Protection Agency Guidelines,* escalate to General Emergency Class Step.

RAD Initials

* of 1 Rem whole body or 5 Rem to the thyroid from iodine exposure.

- 4.3.10 If samples of 4.2.8 indicate potential on-site doses in any area not normally a high radiation area or any calculation doses above MPC, evacuate the subject area to either Operations Support Center (Genoa 1 or the lunch room by the Control Room), or other area designated by the Emergency Control Director.

Time Evacuation Ordered _____
(If Appropriate)

(Duty Shift Supervisor)/(ERD)

- 4.3.11 Maintain a routine of site monitoring to ensure that conditions do not degrade and require an escalation to a higher classification or require site evacuation to an offsite OSC as outlined in the Emergency Plan.

- 4.3.12 Notify INPO of the alert status at _____, as time permits.

(ERD)

- 4.3.13 Notify American Nuclear Insurers of the alert status at _____

(ERD)

- 4.3.14 Escalate Emergency Response by turning to the appropriate EAL section or de-escalate to Unusual Event by turning to Section 4.6.9 or deactivate Emergency Plan by turning to Section 4.6.10.

(ERD)

4.4 SITE AREA EMERGENCY

4.4.1 Evacuate all onsite personnel except Operational crew, oncrew Health Physics Technician, Shift Technical Advisor, CAS Operator, and TSC personnel to either the Evacuation Point at Genoa 1, the lunchroom or lockerroom, or St. Charles School at the discretion of the Duty Shift Supervisor. (Use the St. Charles School if radiological conditions are such that the Genoa 1 power plant is not habitable or will not be habitable, and offsite evacuation of nonessential personnel is required. Contact school by calling Rev. Schute at [redacted]. The Security Supervisor/Sargeant on duty will account for all onsite personnel and notify the Control Room. The normal exit pathway through the Administrative Building will remain open for egress.

- (1) Announce - "A site area emergency exists - all personnel evacuate to Genoa 1 (or "lunchroom" or "offsite to St. Charles School") immediately." Then push the Reactor Building Evacuation Siren and Outside and Turbine Building Siren start and allow siren to sound for 30 seconds. Repeat announcement and siren two more times.

NOTE: FOR DRILLS ONLY - Shortly before initiating the drill, contact the G-3 Shift Supervisor or Plant Superintendent at [redacted] and the Sheriff's Office at [redacted] and the Genoa Lock and Dam No. 8 at [redacted] to notify them of the forthcoming drill, and the fact that the siren will sound, and what if any action is required on their part. The first announcement should be preceded by the words, "This is a Drill," then the emergency announcement should be followed by, "This is a Drill."

(Duty Shift Supervisor)

- 4.4.2 Notify any additional personnel the Duty Shift Supervisor wants to retain to go to the lunchroom OSC adjacent to the Control Room.
- 4.4.3 If Genoa-1 or the St. Charles School OSC is to be used for the evacuation point, the Security Supervisor/Sargeant on duty at the P.A. Access Control Point will bring the Visitor's Log, any available dosimeters, the Sheriff's Band two-way radio, the LACBWR truck, and the Evacuation Point Emergency Keyring (G-1 only) to the activated assembly point; and shall select Channel 88 or 76 and activate the FM radio in the LACBWR truck for backup communications with the Control Room.

- 4.4.4 The Genoa 3 Duty Shift Supervisor will evacuate personnel not needed to safely reduce facility operation. If expected personnel exposure exceeds 5 rems whole body exposure or 25 rems thyroid exposure, the ECD shall require total evacuation of Genoa 3.
- 4.4.5 The warehouse personnel will also evacuate upon command.
- 4.4.6 If during normal office workday, switchboard operator should switch phone PABX to Control Room and bring visitor's record to Evacuation Point.
- 4.4.7 The CAS operator shall run a LIC, I, OTI listing. The Security Supervisor/Sargeant will ensure the printout is brought to the evacuation point. The Security Supervisor/Sargeant shall account for all personnel onsite by the following outline:
- (1) The Control Room will notify him of all vital crew members' accountability.
 - (2) The computer listing will be checked against personnel present at the Evacuation Point to ensure all LACBWR personnel are accounted for.
 - (3) A member of the administrative technical staff present in the Administration Building will report on all personnel in the building being present at the Evacuation Point. The Security Supervisor/Sargeant will designate this person.
 - (4) The visitor log will be used to account for all personnel in LACBWR not listed in (2).
 - (5) A member of the Genoa 3 staff assigned by the Security Supervisor/Sargeant will account for these people.
 - (6) The Resident Inspector will account for all individuals onsite under NRC jurisdiction not accounted for in (2), (3), or (4).
 - (7) A member of the DPC staff housed in the Annex will account for Annex personnel.
 - (8) A member of the Warehouse Staff assigned by the Security Supervisor/Sargeant will account for these people.
- 4.4.8 Report to the ECD.

(Security Supervisor/Sargeant)

Any re-entry to evacuated areas shall be by direction of the ECD in accordance with re-entry procedure, Section 4.7

4.4.9 The CAS operator will assist the Shift Supervisor in communications and notification. An automatic dialer to accelerate notification of primary LACBWR emergency response personnel is located in the CAS. To notify key individuals carrying pagers, use buttons 1A and 2A on the automatic dialer or call _____ o and _____. When the beeping stops, the CAS operator should clearly state: "REPORT TO YOUR RESPONSE STATION," repeat message twice more, and then cancel the call.

4.4.10 Notifv the Vernon County Sheriff via _____ or _____, NAWAS, Wisconsin Warning Center 1 via NAWAS or _____, and Wisconsin Warning Center 3 via NAWAS or _____, that a site area emergency is being declared and the offsite agencies should be placed in a standby basis. The message should state: "This is (Caller's Identification) calling from La Crosse Boiling Water Reactor. A site emergency has been declared at LACBWR. We recommend that you initiate your Emergency Reponse Plan as soon as possible. The Site Emergency is (brief narrative description of the event)"

(STA or Duty Shift Supervisor)

4.4.11 Activate the Technical Support Center by calling personnel listed on the Technical Support Center roster (Appendix B).

(ERD)

(RAD)

(OPD)

4.4.12 Activate the Emergency Operations Facility by calling the personnel listed on the EOF roster (Appendix C).

Persons Contacted

(ECD)

(RAD)

(OPD)

4.4.13 Notify the USNRC via the ENS network (red phone).

(ERD or Duty Shift Supervisor)

4.4.14 Activate the Joint News Center by contacting the Public Information Director listed in Appendix E.

(ERD)

4.4.15 Once the Technical Support Center has been activated, establish liaison between the Control Room and TSC. A Plant Parameters communicator will be called to the TSC. (Appendix B)

(ERD)

4.4.16 Augment the staff as needed in accordance with Appendix G.

4.4.17 Once the EOF has been activated and the Cooperative Manager in overall charge of the emergency has arrived in the EOF, the Cooperative Manager will call the Shift Supervisor at the plant and assume the Emergency Control Director role.

(Duty Shift Supervisor)

(ECD)

<u>ECD Transferred To</u>	<u>Step in the Procedure Complete at Transfer</u>
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Time/Date

(Duty Shift Supv.)

Once the EOF has been transferred from the Duty Shift Supervisor to the Cooperative Manager, the TSC Staff and/or the Control Room will communicate with the EOF staff and provide the incident details, known radiological releases, if applicable, sample results if taken, time of event, and current status. The telephone numbers for the EOF are listed in Appendix F. Keep the EOF notified of changes of plant condition. The ECD will now contact the Joint News Center and establish communications. The EOF Staff reporting to the EOF will call in additional individuals listed in Appendix C as needed.

4.4.18 The ECD shall in conjunction with Cooperative RAD determine areas in and around the facility to be surveyed to determine the extent of radiological release and contamination (EPP-6, 7, and 8). Any indication that dose rates or contamination rates at the site boundary downwind may exceed 1 Rem whole body or 5 Rem to the thyroid shall cause the ECD to escalate the emergency status to that of General Emergency and evaluate offsite doses (EPP-8). Actual dose predictions to offsite areas shall be calculated using EPP-5 under direction of Health and Safety personnel. These calculations should be double-checked. Control Room personnel will furnish meteorological data as required until such time as this function is remoted. The Vernon County Sheriff shall be furnished with meteorological conditions and dose projections where appropriate by the ECD.

(RAD and ECD)

4.3.19 Notify INPO of the site area emergency status at as time permits.

(ECD)

4.3.20 Notify American Nuclear Insurers of the Site Area Emergency status at

(ECD)

4.3.21 Escalate Emergency Response by turning to General Emergency EAL Section 4.5, or de-escalate to Alert by turning to Section 4.6.4, or deactivate emergency plan by turning to Section 4.6.10.

(ECD)

4.5 GENERAL EMERGENCY

4.5.1 Evacuate all onsite personnel except Operational crew, oncrew Health Physics Technician, Shift Technical Advisor, CAS Operator, and TSC personnel to either the Evacuation Point at Genoa 1, the lunchroom or lockerroom, or St. Charles School at the discretion of the Duty Shift Supervisor. (Use the St. Charles School if radiological conditions are such that the Genoa 1 power plant is not habitable or will not be habitable, and offsite evacuation of nonessential personnel is required. Contact school by calling Rev. Schute at _____ The Security Supervisor/Sargeant on duty will account for all onsite personnel and notify the Control Room. The normal exit pathway through the Administrative Building will remain open for egress.

- (1) Announce - "A site area emergency exists - all personnel evacuate to Genoa 1 (or "lunchroom" or "offsite to St. Charles School") immediately." Then push the Reactor Building Evacuation Siren and Outside and Turbine Building Siren start and allow siren to sound for 30 seconds. Repeat announcement and siren two more times.

NOTE: FOR DRILLS ONLY - Shortly before initiating the drill, contact the G-3 Shift Supervisor or Plant Superintendent _____ and the Sheriff's Office at _____ and the Genoa Lock and Dam No. 8 at _____ to notify them of the forthcoming drill, and the fact that the siren will sound, and what if any action is required on their part. The first announcement should be preceded by the words, "This is a Drill," then the emergency announcement should be followed by, "This is a Drill."

(Duty Shift Supervisor)

- 4.5.2 Notify any additional personnel the Duty Shift Supervisor wants to retain to go to the lunchroom OSC adjacent to the Control Room.
- 4.5.3 If Genoa-1 or the St. Charles School OSC is to be used for the evacuation point, the Security Supervisor/Sargeant on duty at the P.A. Access Control Point will bring the Visitor's Log, any available dosimeters, the Sheriff's Band two-way radio, the LACBWR truck, and the Evacuation Point Emergency Keyring (G-1 only) to the activated assembly point; and shall select Channel 88 or 76 and activate the FM radio in the LACBWR truck for backup communications with the Control Room.

- 4.5.4 The Genoa 3 Duty Shift Supervisor will evacuate personnel not needed to safely reduce facility operation. If expected personnel exposure exceeds 5 Rems whole body exposure or 25 Rems thyroid exposure, the ECD shall require total evacuation of Genoa 3.
- 4.5.5 The warehouse personnel will also evacuate upon command.
- 4.5.6 If during normal office workday, switchboard operator should switch phone PABX to Control Room and bring visitors' record to Evacuation Point.
- 4.5.7 The CAS operator shall run a LIC, I, OTI listing. The Security Supervisor/Sargeant will ensure the printout is brought to the evacuation point. The Security Supervisor/Sargeant shall account for all personnel onsite by the following outline:
- (1) The Control Room will notify him of all vital crew members accountability.
 - (2) The computer listing will be checked against personnel present at the Evacuation Point to ensure all LACBWR personnel are accounted for.
 - (3) A member of the administrative technical staff present in the Administration Building will report on all personnel in that building being present at the Evacuation Point. The Security Supervisor/Sargeant will designate this person.
 - (4) The visitors' log will be used to account for all personnel in LACBWR not listed in (2).
 - (5) A member of the G-3 staff assigned by the Security Supervisor/Sargeant will account for these people.
 - (6) A member of the warehouse staff assigned by Security Supervisor/Sargeant will account for their people.
 - (7) The Resident Inspector will account for all individuals onsite by NRC jurisdiction not accounted for in (2), (3), or (4).
 - (8) A member of the DPC staff housed in the Annex will account for Annex people. A member of the warehouse staff will account for warehouse people.

4.5.8 Report to the ECD.

(Security Supervisor/Sargeant)

Any re-entry to evacuated areas shall be by direction of the ECD in accordance with Section 4.7, re-entry procedure.

4.5.9 The CAS operator will assist the Shift Supervisor in communication and notification. An automatic dialer to accelerate notification of primary LACBWR emergency response personnel is located in the CAS. To notify key individuals carrying pagers, use buttons 1A and 2A on automatic dialer or call _____ and _____. When the beeping stops, the CAS operator should clearly state: "REPORT TO YOUR RESPONSE STATION," repeat message twice more, and then cancel the call.

4.5.10 Notify the Vernon County Sheriff via _____ or _____ or _____ or NAWAS and Wisconsin Warning Center 1 via NAWAS or _____ and Wisconsin Warning Center 3 via NAWAS or _____ that a general emergency is being declared and that the offsite agencies should be activated. The message should state: "This is (Caller's Identification) calling from the La Crosse Boiling Water Reactor. A General Emergency has been declared at LACBWR. Immediate notification of the public is warranted. Assistance from your agency is requested immediately and we recommend that you implement your Emergency Response Plan immediately. The General Emergency is (brief narrative description of the event)"

(STA or Duty Shift Supervisor)

4.5.11 Have the Health Physics Technician begin calculating offsite dose estimates as per EPP-5.

(Duty Shift Supervisor)

4.5.12 Activate the Technical Support Center by calling personnel listed on the Technical Support Center roster (Appendix B).

(ERD)

(OPD)

(RAD)

- 4.5.13 Activate the Emergency Operations Facility by calling personnel listed in the EOF roster (Appendix C). Transfer Operational Control of the emergency to the Emergency Control Director upon his reaching the EOF. The number at the EOF is _____ (See Section 4.4.16.)

Persons Contacted:

(ECD)

(OPD)

(RAD)

- 4.5.14 Notify the USNRC via the ENS network (red phone).

(ECD)

- 4.5.15 Activate the Joint News Center by contacting a person listed in Appendix E.

(ECD)

- 4.5.16 The Health Physics Technician shall perform offsite exposure estimates using the methodology of EPP-5. If the calculations result in estimated offsite dose for the duration of the release which exceed the following guidelines, the RAD or the Cooperative RAD shall verify the calculations. The Cooperative RAD will report the off-site dose calculation to the ECD. The ECD shall contact the Vernon County Sheriff and make the recommendation for Protective Action outlined for the zone in Figure 1 towards which the wind is blowing. If on a border, include the adjacent zone.

PROJECTED DOSE
(REM) TO THE
THE POPULATION

RECOMMENDED ACTIONS(a)

COMMENTS

Whole Body < 1

No planned protective actions (b). State may issue an advisory to seek shelter and await further instructions. Monitor environmental radiation levels

Previously recommended protective actions may be reconsidered or terminated.

Whole Body 1 to < 5

Seek shelter as a minimum. Consider evacuation. Evacuate unless constraints make it impractical. Monitor environmental radiation levels. Control access.

If constraints exist, special consideration should be given for evacuation of children and pregnant women.

Thyroid 5 to < 25

Whole Body 5
and Above

Conduct mandatory evacuation. Monitor environmental radiation levels and adjust area for mandatory evacuation based on these levels. Control access.

Seeking shelter would be an alternative if evacuation were not immediately possible.

- (a) These actions are recommended for planning purposes. Protective action decisions at the time of the incident must be taken into consideration.
- (b) At the time of the incident, officials may implement low-impact protective actions in keeping with the principle of maintaining radiation exposures as low as reasonably achievable.

4.5.17 Augment the staff as needed in accordance with Appendix G.

4.5.18 Contact the NRC on the HP hotline (SS-4 Network). Call Region III at Ext. 23; if no answer (off-hours), call Bethesda, Maryland at Ext. 22. No dial tone or ringing will be heard. Keep an open line until NRC terminates if operational conditions permit.

4.5.19 Once the EOF has been activated, contact the EOF staff and provide the incident details, known radiological releases, if applicable, sample results if taken, time of event, and current status. Keep the EOF Staff notified of changes of plant condition. The ECD will now contact the Joint News Center and establish communications. The EOF Staff reporting to the EOF will call in additional individuals listed in Appendix C as needed.

<u>ECD Transferred To</u>	<u>Step in the Procedure</u>
_____	<u>Complete at Transfer</u>
_____	_____

Time/Date

(Duty Shift Supervisor)

(Emergency Control Director)

4.5.20 The ECD shall in conjunction with the Cooperative RAD determine areas in and around the facility to be surveyed to determine the extent of radiological release and contamination (EPP-6, 7, and 8). Control Room personnel will furnish meteorological data as required until such time as this function is remoted. The county emergency operations center shall be furnished, via the Vernon County Sheriff, with meteorological conditions and continuing dose projections by the EOF Staff.

4.5.21 The Joint News Center shall function (EPP-16) to act as liaison with news media. The county emergency operations center (Vernon County Sheriff) shall be the liaison with offsite governmental agencies. The ECD shall keep both centers apprised of all developments and changes in plant status, particularly those which may potentially effect offsite doses. Additional communication capabilities are outlined in EPP-3. All information released to the public shall have been cleared through the ECD by the PID.

4.5.22 The ECD shall contact any personnel required for augmentation of available staff as he determines to be necessary. Resources by area of expertise are listed in Section 4.7. The ECD has DPC management approval to augment resources as needed to bring the reactor to a stable condition and minimize offsite impact. The ECD may augment staff and material through the EMMPD.

4.5.23 Notify INPO of the general emergency status at
as time permits.

4.5.24 Notify American Nuclear Insurers of the general emergency status at

4.5.25 Once the condition which caused activating the Emergency Plan has been stabilized, initial recovery and re-entry of evacuated site area may be made for assessment or mitigation per Section 4.7.

4.5.26 If appropriate, de-escalate to Site Area Emergency by turning to Section 4.6.1, or to Alert by turning to Section 4.6.4, or to Unusual Event by turning to Section 4.6.9.

(ECD)

4.6 DE-ESCALATION OF EMERGENCY ACTION LEVELS AND DEACTIVATION

4.6.1 When the activating condition has been resolved, the general emergency status shall be either de-escalated or terminated. Notify Wisconsin Warning Centers 1 and 3 and Vernon County Sheriff of the action.

(ECD)

4.6.2 Notify the USNRC via the ENS network (red phone).

(ECD)

4.6.3 Notify INPO and ANI as time permits that emergency status has been reduced.

(ECD)

4.6.4 When the activating condition has been resolved, the site area emergency status shall be either de-escalated or terminated. Notify the Vernon County Sheriff's Office and Wisconsin Warning Centers 1 and 3 of the action.

(ECD)

4.6.5 Notify the USNRC via the ENS network (red phone).

(ECD)

4.6.6 The EOF will deactivate the Joint News Center.

(ECD)

4.6.7 Notify INPO and ANI.

(ECD)

- 4.6.8 Deactivate the Emergency Operations Facility after providing a verbal closeout to any public officials present, and upon direction of the ECD.

(ECD)

- 4.6.9 Once the condition which required alert status has been resolved, close out Emergency Plan activation or de-escalate to Unusual Event Status. If closeout is indicated:

- (1) Notify the Vernon County Sheriff's Department and Wisconsin Warning Center.

(ERD)

- (2) Notify the USNRC.

(ERD)

- (3) Notify the Shift Technical Advisor.

(ERD)

- (4) Remove the Standby Status of the Emergency Operations Facility if applicable.

(ERD)

- (5) Notify INPO and ANI.

(ERD)

- (6) Deactivate the OSC if applicable.

(ERD)

- (7) Deactivate the Technical Support Center.

(ERD)

4.6.10 Deactivate the Emergency Plan and notify the NRC and Superintendent (if appropriate).

Duty Shift Supervisor

Date

4.6.11 Provide written summary of emergency events to appropriate organizations as outlined in the Emergency Plan.

- (1) Alert - Written summary to ERD and offsite agencies within eight (8) hours of closeout or class reduction.
- (2) Site Area Emergency - Written summary to ECD and offsite agencies within eight (8) hours of closeout or class reduction.
- (3) General Emergency - Written summary to ECD and offsite agencies within eight (8) hours of closeout or class reduction.

4.7 RECOVERY AND RE-ENTRY

- 4.7.1 After the initial preplanned emergency actions have alleviated the emergency situation, additional actions may be necessary to effect the most complete recovery possible. All recovery actions will be preplanned and all actions will be documented. Affected areas will be roped off and posted with warning signs indicating radiation levels or other hazards. Every reasonable effort should be made to limit radiation exposure. However, the exposure levels justifiable will depend on the specific circumstances, taking into account risk versus benefit factors in the particular situation.
- 4.7.2 Section 4.8 indicates resources which can be utilized during the recovery and re-entry phases of an emergency at LACBWR. The Emergency Control Director will have the authority and responsibility to manage the overall re-entry and recovery operation. He has the authority to request offsite support and assistance from other utilities, consultants, INPO, etc.
- 4.7.3 The initial return to the plant after a site area evacuation will be made by a re-entry team composed of at least two members. The team will consist of at least one member of the LACBWR Health and Safety Department and one member of the LACBWR Operations Department. More than two persons may be used in the party if it can result in the saving of human life or reduction of injury. The decision to re-enter shall be made by the Emergency Control Director and the following prerequisites should be considered:
- (1) protective clothing,
 - (2) respiratory protective equipment,
 - (3) personnel monitoring TLD badges and dosimeters,
 - (4) radiation monitoring instrumentation,
 - (5) communication with the Emergency Control Team or with the Control Room, preferably both, and
 - (6) if available, the conditions inside the plant should be determined from the in-plant radiation monitoring instrumentation.

4.7.4 Planned exposure⁽¹⁾ to the whole body and/or specific organs should not exceed the following recommendations of the National Council on Radiation Protection and Measurements (NCRP-39), and U. S. EPA, "Manual of Protective Action Guides and Protective Actions for Nuclear Incidents," (EPA-52011-75-001, Revision 1).

<u>Organ</u>	<u>Protective Or Corrective Actions</u>	<u>Lifesaving Actions</u>
Whole Body	25 Rems	75 Rems
Hands and Forearms (including whole body component)	100 Rems	300 Rems
Thyroid	125 Rems	No Limit ⁽²⁾

- All reasonable measures must be taken to control contamination and internal exposures, utilizing the best available respiratory protection and protective clothing.
- Persons performing emergency activities should be familiar with exposure consequences.
- Women capable of reproduction should not take part in actions requiring emergency exposures.
- Retrospective doses shall be evaluated on an individual case basis.
- Other things being equal, volunteers above the age of 45 should be selected.

(1) Authorization for volunteers to receive these recommended exposures is a nondelegatable responsibility of the Emergency Control Director.

(2) Thyroid exposure should be minimized to the extent feasible by the use of respirators and/or thyroid prophylaxis (administration of stable iodine salts). However, no upper limit is specified for life saving action since the complete loss of the thyroid may be considered an acceptable risk for saving life.

- 4.7.5 Re-entry after an area evacuation will be by decision of the LACBWR Health and Safety representative on duty at the time. No one should re-enter an area until approval is given by a qualified person. Special monitoring equipment, in addition to that in the emergency boxes, is kept in the Waste Treatment Building and in the Change Room to assist in evaluation of re-entries. The in-plant monitoring equipment should also be used when possible.
- 4.7.6 Once the potential of escalating an event has passed, steps should be started to recover from the incident. Guidelines and responsibilities for recovery are outlined below:
- (1) There must be assurance that the problem which caused the emergency is solved and that this same incident cannot immediately reoccur.
 - (2) The general occupancy areas must be free of significant contamination and radiation and high radiation areas properly defined and posted.
 - (3) Airborne radioactivity must be eliminated or controlled within 10CFR20 limits.
 - (4) Access to the area must be controlled and exposures of personnel documented. Exposure for recovery should be limited to 10CFR20 limits.
 - (5) The LACBWR Operations Review Committee under the Emergency Control Director is responsible for evaluating recovery advisability.
 - (6) Plant records and other essential information necessary for evaluating the emergency must be available.
 - (7) All major recovery steps will be performed in accordance with written procedures. These procedures will be prepared under the supervision of the Onsite Emergency Response Director, by qualified LACBWR staff members, or outside consultants. They will be reviewed by the Operations Review Committee and approved by the Emergency Control Director.

- 4.7.7 When the recovery operation has been completed and the plant has been returned to an operable condition, the Emergency Control Director is responsible for authorizing the return to normal operation.

If the emergency shutdown resulted from a safety limit being exceeded, reactor operation will not be resumed until authorized by the NRC. A complete analysis of the situation will be made, together with recommendations for preventing a reoccurrence. This report shall be submitted to the DPC General Manager, the Safety Review Committee, and the NRC. The plant will be restarted only when:

- (1) the conditions causing the emergency are returned to normal,
- (2) the cause of the emergency is understood,
- (3) restoration, repair, and testing are complete as required,
- (4) no unreviewed safety questions exist,
- (5) all conditions of the License and Technical Specifications are satisfied, and
- (6) all required approvals have been received.

4.8 RESOURCES

- 4.8.1 Resources are available to supplement staff in emergency situations. Backup capabilities from DPC staff and outside entities are outlined in this section. EPP-3 lists numbers and messages for several of these contacts.
- 4.8.2 Upon initiation of any emergency response, specific plant groups, departments, or individuals have general responsibility to take actions. These assignments are described in Table 4.2. Listed first is the group available for first response onsite at all times. Listed next are others available for assistance based on their availability for response.

TABLE 4.1

EMERGENCY RESPONSE CAPABILITIES DURING OPERATIONAL CONDITIONS 1-3

EMERGENCY RESPONSE FUNCTION	NORMAL POSITION	ON-SHIFT	REMAINING PERSONNEL RESIDING NEAR APPLICABLE EMERGENCY RESPONSE FACILITY (PLANT OR EOF)			30 MIN	60 MIN	TOTAL
			30 MIN	60 MIN	TOTAL			
Plant Operations	Shift Supervisor (SRO) Reactor Operators Plant Operators	1 2 2						
Emergency Control	Shift Supervisor Asst. General Manager - Power or Alternates	1	4		4		1	1
Notification - Communications	Security Guard Supervisor, Technicians and Specialists trained in Emergency Communications	1	5	3	8	1	2	3
Radiological Activities In-Plant Surveys On-Site Surveys Off-Site Surveys Dose Assessment Radiation Protection Radiological Assessment	Health Physics Technicians Radiation Protection Eng. Rad. Prot. Eng. Specialist Health & Safety Supervisor Health Physics Technicians Environmental Engineer Sr Environmental Biologist Air Quality Analyst Director, Environ. Affairs	1*	7*	5*	12*	2	2	4

*Operators are also trained to perform surveys and can be used for augmentation if necessary. There are generally 20 operations personnel not on-duty at anytime.

TABLE 4.1

EMERGENCY RESPONSE CAPABILITIES DURING OPERATIONAL CONDITIONS 1-3

EMERGENCY RESPONSE FUNCTION	NORMAL POSITION	ON-SHIFT	REMAINING PERSONNEL RESIDING NEAR APPLICABLE EMERGENCY RESPONSE FACILITY (PLANT OR EOF)			PLANNED INITIAL RESPONSE TEAM (AS NEEDED)		
			30 MIN	60 MIN	TOTAL	30 MIN	60 MIN	TOTAL
Technical Support	Shift Technical Advisor	1						
	Plant Superintendent Asst. Plant Superintendent Operations Supervisor Asst. to Operations Sup. Shift Supervisors Reactor Engineer Operations Engineer Electrical Engineer Mechanical Engineer Technical Support Engineer Engineer Assistant Engineering Specialist Director Power Production Director Power Engineering		9	5	14	1	2	3
Repair and Corrective Actions	Operators and Shift Supervisor	(See Plant Oper)						
	Instrument & Elec. Supv. Mech. Maint. Supv. Maintenance Mechanics Instrument Technicians Electricians		10**	10**	20**	2	3	5
Firefighting		Fire Brigade per Tech. Specs.	Local Support					

**Includes Instrument Technicians who may be augmenting in communicator function.

TABLE 4.1

EMERGENCY RESPONSE CAPABILITIES DURING OPERATIONAL CONDITIONS 1-3

EMERGENCY RESPONSE FUNCTION	NORMAL POSITION	ON-SHIFT	REMAINING PERSONNEL RESIDING NEAR APPLICABLE EMERGENCY RESPONSE FACILITY (PLANT OR EOF)		PLANNED INITIAL RESPONSE TEAM (AS NEEDED)	
			30 MIN	60 MIN	30 MIN	60 MIN
			TOTAL		TOTAL	
Rescue Operations and First-Aid		On-Shift Personnel				
Site Access Control and Personnel Accountability		Per Security Plan	28	20	6	10
Total		8	28	20	6	10
			48		16	

TABLE 4.2

<u>Headquarters Personnel</u>	<u>Area of Capabilities</u>
Director of Environmental Affairs and Staff	Environmental Monitoring and Dose Assessment.
Assistant General Manager - Power Group	Technical Support for Planning and Recovery Operations, Special Equipment and Supplies Procurement, Notification of Government Agencies.
Director of Information and Marketing	Notification of Government Agencies Public Affairs, and News Media. Confirmation Release to News Media.
Transportation Supervisor and/or Construction Superintendent	Special Vehicle Use.
Manager of Insurance and Contracts	Insurance Needs.

4.8.3 The offsite non-DPC support agencies having specific expertise in various areas are listed in this section.

4.8.3.1 Sheriff's Office - Vernon County

The Vernon County Sheriff's Department Headquarters is located in Viroqua, Wisconsin, twenty (20) miles from the plant site. The department will cooperate in any emergency situation brought to its attention.

The County Sheriff is responsible for providing local public support in the area of public notification, evacuation, emergency assistance, and crowd and traffic control. The Sheriff's Office has 24-hour response capability. He is responsible for notifying the following agencies:

- Surrounding County LLEA's.
- Vernon County Civil Defense Director.
- Wisconsin Division of Emergency Government.
- Minnesota Officials, including Houston County, Minnesota Sheriff's Department, Caledonia, Minnesota.
- Allamakee County, Iowa Sheriff's Department, if required.

The County Sheriff is also responsible for followup notification of the population-at-risk within the 5-mile radius of the 45° sector of the potential plume pathway.

4.8.3.2 Tri-State Ambulance

An agreement has been made with Tri-State Ambulance located in both Viroqua and La Crosse, Wisconsin, to provide DPC with ambulance service and in-route life support treatment for persons with radiological and non-radiological injuries resulting from an emergency at LACBWR.

4.8.3.3 U. S. Army Corps of Engineers

An agreement has been made with the U. S. Army Corps of Engineers, through the St. Paul District for Lockmasters, to provide assistance in controlling area river traffic at Lock & Dam Nos. 7, 8, and 9 during an emergency at LACBWR. Lock and Dam No. 8 will provide small craft, emergency shelter, medical first aid, and telephone communications.

4.8.3.4 United States Coast Guard (USCG)

By agreement, the U. S. Coast Guard will be responsible for controlling river traffic using their craft and communications. Craft can be provided from Davenport, Iowa, and Hastings, Minnesota. Response time depends on craft location and river conditions.

4.8.3.5 Genoa Fire Department

The Genoa Fire Department, by agreement is responsible for providing rescue and firefighting support to LACBWR during emergencies. Upon request by the Genoa Fire Chief, all fire departments of Vernon County can be coordinated and directed by the Fire Services Director for the Vernon County Civil Defense Organization to support the Genoa Fire Department during an emergency at LACBWR.

4.8.3.6 La Crosse Lutheran Hospital - Gundersen Clinic
Vernon Memorial Hospital - Viroqua, Wisconsin

Arrangements have been made with the La Crosse Lutheran Hospital to provide DPC with medical treatment for radiological and non-radiological injuries incurred during an emergency at LACBWR. The Vernon Memorial Hospital in Viroqua is normally considered the backup hospital for medical treatment for radiological and non-radiological injuries incurred during an emergency at LACBWR.

4.8.3.7 U. S. Nuclear Regulatory Commission

The role of the NRC during a radiological emergency is to verify that emergency plans and procedures have been implemented, assure that the public health and safety are protected, and conduct investigative activities associated with the incident. The NRC will assist in coordinating federal response resources and will provide EPC, state and local agencies with advisory assistance associated with assessing and mitigating hazards to the public.

4.8.3.8 U. S. Department of Energy

The Department of Energy has prepared a Federal Radiological Monitoring and Assessment Plan and an Interagency Radiological Assistance Plan. Under the provisions of these plans, the Department of Energy, upon request from the State of Wisconsin Division of Emergency Government, will dispatch radiological teams to assist local and state agencies with monitoring and provide technical guidance. These teams are intended to be advisory, and will not assume control from local authorities who are present.

4.8.3.9 Burlington Northern Railroad

An agreement with Burlington Northern Railroad stipulates that they will control rail traffic passing the site during an emergency when the Chief Dispatcher in Cicero, Illinois, is notified by telephone. The La Crosse Assistant Road Superintendent or Train Telegraph Operator can be used as alternate contacts.

4.8.3.10 Modern Crane Service

Modern Crane Service, by Letter of Agreement, will provide a crane with a boom of 150 feet, as well as other necessary equipment and services during an emergency.

4.8.3.11 Grant County and Sauk County, WI., Sheriff's Helicopter Service

The Vernon County Sheriff, upon request by DPC, can notify the Sheriffs of Grant and Sauk Counties to dispatch their helicopters which are equipped with sirens and loud speakers to notify sportspersons and tourists on the Mississippi River and on the Federal Wildlife Refuge Islands and backwaters within the plume exposure pathway EPZ.

4.8.3.12 State of Minnesota

The Minnesota Division of Emergency Services, administers the State of Minnesota Radiation Emergency Plan. The State Civil Defense Director located in St. Paul is responsible for activating the Minnesota Plan and for providing the assistance it details. The State Division of Emergency Services maintains a 24-hour duty officer for continuous response capability.

4.8.3.13 State of Iowa

The Office of Disaster Services administers the State of Iowa Radiation Incident Response Plan and has continuous response capability. The State Civil Defense Director located in Des Moines is responsible for activating the Iowa Plan and providing the assistance it details.

4.8.3.14 State of Wisconsin

The Wisconsin Department of Local Affairs and Development, Division of Emergency Government administers the State of Wisconsin Radiological Emergency Response Plan. The Division of Emergency Government has continuous response capability. The Regional Director at Madison is responsible for activating the Wisconsin Plan and providing the assistance detailed within it. This support includes the following:

- Alerting appropriate state agencies.
- Providing a radiological response team.
- Operating the state emergency communications control center.

- Informing appropriate government agencies and adjacent counties and states.
- Assisting local authorities through the State Highway Patrol.
- Coordinating state mutual aid.

4.8.4 Additional specific physical resources both DPC and non-DPC owned are listed in this section.

4.8.4.1 Radiological Monitors and Dose Measuring Devices

- Environmental Direct Radiation Monitoring - TLD's

Thirty-eight environmental TLD's, with capability of detecting both beta and gamma radiation dose equivalents, are located at specific locations at distances from LACBWR ranging from 1 to 23 miles. TLD's beyond 5 miles are considered to be background environmental radiation dose equivalent monitors.

- Five Air Monitoring Stations

At least five air monitoring stations are in operation as part of the Environmental Survey Program. Each contains a particulate filter and charcoal cartridge which could be analyzed with portable survey points around LACBWR and are capable of measuring radioiodine concentrations of 10^{-7} $\mu\text{Ci/cc}$ and lower. An EPP gives the relationships between radionuclides and the resulting dose levels for comparison to projections. All stations have Ag Zeolite cartridges in desiccant bags which would be inserted in the air sampler to replace charcoal cartridges during an emergency.

LACBWR has the capability of placing a portable air sampler at a spot within the plume which can then have its media removed to the laboratory for isotopic analysis. In addition, a variety of offsite samples are analyzed by an outside contractor in La Crosse at the University. Those facilities would normally be available for use during emergency assessment situations.

4.8.4.2 Meteorological Monitors

Various meteorological parameters can be monitored from the Control Room. These parameters include: (1) barometric pressure, (2) ambient temperature ground level, (3) differential temperature between the top of the stack and the ten meter tower, (4) wind speed and direction at top of the stack, and (5) relative humidity.

The site meteorological data also includes data on wind speed and wind direction at the 10-meter height. This data is currently available in the office annex. This data is available to the Emergency Operations Facility.

Meteorological data is available from the Alma Wisconsin Energy Center of Dairyland Power Cooperative.

Meteorological data is also available at the Rochester, Minnesota, U. S. Weather Bureau.

4.8.4.3 Offsite Laboratory Facilities

The University of Wisconsin-La Crosse Nuclear Radiation Center, located in Cowley Hall will serve as an offsite laboratory. Also, available will be the Dairyland Power Cooperative laboratory located in the Service Center Building on East Avenue in La Crosse.

The University of Wisconsin-La Crosse laboratory has the capability to analyze environmental samples for gross alpha, gross beta, gross gamma, as well as isotopic identification. The capability also exists for the analysis of iodine in milk. Analysis can be provided on a 24-hour immediate notification basis.

The University of Wisconsin-La Crosse Radiation Center has two multi-channel analyzers with Sodium Iodide and Germanium detectors, liquid scintillation counters, thin window proportional counters, alpha spectrometer, Geiger-Mueller counters, and single channel analyzers to determine the radioactivity content of multiple environmental samples.

A letter of agreement to have access and use of their facility has been provided to Dairyland Power Cooperative by the University of Wisconsin-La Crosse.

The Dairyland Power Cooperative Environmental Laboratory will have the capability of analyzing environmental samples for gross beta and gross alpha content. This laboratory will be available on a 24-hour basis.

4.8.4.4 Protective Facilities and Equipment

The OSC at G-1 is able to accommodate all personnel present onsite at any given time. There are approximately 70 workers at LACBWR and 80 at Genoa 3 present during the day shift. The OSC is equipped with a telephone. It also has a first aid kit.

The St. Charles School in Genoa, Wisconsin, by agreement with DPC, will be used as the offsite evacuation point in the event that radiological conditions make onsite evacuation points not habitable. The school has the capability of accommodating 150 people. It is equipped with a telephone.

Also, located at the OSC is an emergency equipment kit, which contains protective equipment, radiological monitoring equipment, and emergency supplies.

4.8.4.5 Damage Control Equipment

Numerous DPC vehicles and a variety of heavy equipment are available onsite for use. This equipment is maintained by the adjoining coal plant (Genoa 3 unit) and the Alma Dock Corporation. Equipment includes bulldozers, mobile cranes, tugboats, forklifts, winches, welding equipment, chain falls, etc. All DPC heavy equipment normally present at the Cooperative's Office is available at the site within two hours.

4.8.5 This section lists various technical consultants with which DPC has worked previously, along with INPO.

4.8.5.1 Institute of Nuclear Power Operations (INPO) is an industry group which maintains a list of available staff and equipment from other nuclear power plants. DPC has a mutual assistance agreement with INPO to coordinate outside assistance from other utilities.

4.8.5.2 Nuclear Energy Services (NES) has acted as the principal consultant to DPC or LACBWR. They have numerous personnel familiar with plant layout and design and have reference drawings, etc.

5.0 RECORDS

The checklists maintained in the Control Room and the EOF shall be maintained in accordance with ACP-18.1.

APPENDIX A

EMERGENCY MANPOWER NOTIFICATION

EMERGENCY CLASSIFICATION APPLICABILITY - Unusual Event Only

<u>PLANT SUPERINTENDENT</u>	<u>HOME PHONE</u>	<u>PLANT EXTENSION</u>
Richard E. Shimshak-----		
John D. Parkyn-----		
George S. Boyd-----		
Larry W. Kelley-----		
Off-Duty Shift Supervisor-----		

RADIOLOGICAL PROTECTION*

Paul W. Shafer-----
Bruce R. Zibung-----
Larry L. Nelson-----

* If unusual event involves significant unmonitored release of radioactivity, degradation of plant gaseous effluent monitors, or significant personnel contamination as defined in ACP 17.1.

APPENDIX B

EMERGENCY MANPOWER TECHNICAL SUPPORT CENTER

EMERGENCY CLASSIFICATION APPLICABILITY: Alert, Site Area Emergency,
General Emergency

ONSITE EMERGENCY RESPONSE DIRECTOR (1 Person Required)

	<u>HOME PHONE</u>	<u>PLANT EXTENSION</u>
Richard E. Shimshak-----		
John D. Parkyn-----		
Dr. Seymour J. Raffety-----		
George S. Boyd-----		
Larry W. Kelley-----		

ONSITE OPERATIONS PARAMETERS DIRECTOR (1 Person Required)

George S. Boyd-----	
Larry W. Kelley-----	
Marc A. Polsean-----	
Off-Duty Shift Supervisor-----	

ONSITE RADIOLOGICAL ASSESSMENT DIRECTOR (1 Person Required)

Bruce R. Zibung-----	
Paul W. Shafer-----	
Larry L. Nelson-----	
Off-Duty Senior HP Technician*-----	

*Does not include HP Technicians nor (OJT) HP Technicians

PLANT PARAMETERS COMMUNICATOR (1 Person Required)

Larry Mitchell-----	
Paul Hess-----	
D. Flottmeyer-----	
G. Gentry-----	

APPENDIX C

EMERGENCY MANPOWER/EMERGENCY OPERATIONS FACILITY

EMERGENCY CLASSIFICATION APPLICABILITY

Site Area Emergency, General Emergency

EMERGENCY CONTROL DIRECTOR (1 Person Required)

	<u>HOME PHONE</u>	<u>PLANT EXTENSION</u>
James W. Taylor-----		
Thomas A. Steele-----		
James Sherwood-----		
Paul Finner-----		

COOPERATIVE OPERATIONS PARAMETERS DIRECTOR (1 Person Required)

Lynne S. Goodman-----		
Robert M. Brimer-----		
Hugh A. Towsley-----		
Off-Duty Shift Supervisor-----	NA	

COOPERATIVE RADIOLOGICAL ASSESSMENT DIRECTOR (1 Person Required)

Thomas A. Steele-----		
Paul W. Shafer-----		
Bruce R. Zibung-----		

IN-FIELD RADIOLOGICAL ASSESSMENT DIRECTOR (1 Person Required)

Paul W. Shafer-----		
George Johnston-----		

TECHNICAL COMMUNICATORS (2 Persons Required)

Robert Wery-----		
Glenn Tullius-----		
Paul Sampson-----		
Don Egge-----		

OFFSITE DOSE CALCULATIONS & TRAJECTORY SPECIALIST (1 Person Req.'d)

Eric Hennen-----		
Dan Weiss-----		

COOPERATIVE EMERGENCY SUPPORT DIRECTOR (1 Person Required)

Paul Finner-----		
Dan Crady-----		

APPENDIX D

SUPPLEMENTAL EMERGENCY MANPOWER
EMERGENCY OPERATIONS FACILITY SUPPORT STAFF

EMERGENCY CLASSIFICATION APPLICABILITY

General Emergency if necessary

COOPERATIVE EMERGENCY COMMUNICATIONS DIRECTOR

	<u>HOME PHONE</u>	<u>PLANT EXTENSION</u>
Charles Sans Crainte-----		
Kenneth Adams-----		

APPENDIX E

EMERGENCY MANPOWER
JOINT PUBLIC INFORMATION CENTER

EMERGENCY CLASSIFICATION APPLICABILITY

Site Area Emergency, General Emergency

EMERGENCY PUBLIC INFORMATION DIRECTOR

	<u>HOME PHONE</u>	<u>PLANT EXTENSION</u>
Ronald Marose-----		
Keith Kuehn-----		
Peter Delwiche-----		

EMERGENCY TECHNICAL INFORMATION SPECIALIST

Dr. Seymour J. Raffety-----

Contact the EOF for alternate.

APPENDIX F

KEY COMMUNICATIONS LIST

DAIRYLAND POWER COOPERATIVE

1. LACBWR TSC-----

2. LACBWR CONTROL ROOM-----

Microwave:

DPC System Radio

3. EOF (LA CROSSE)-----

Ext. (Speaker Phone)
Ext.

Microwave: (Speaker Phone)

Microwave: (Unlisted No.)

DPC System Radio
Both In/Out on Both:

4. GENOA 1 OPERATIONS SUPPORT AREA-----PABX Ext.

DPC System Radio

5. GENOA 3 SUPERINTENDENT-----

Ext.
Microwave:

DPC System Radio

KEY COMMUNICATIONS LIST - (Cont'd)

6. VERNON COUNTY EMERGENCY GOVERNMENT (EOC) - (Viroqua, Wisconsin)

- a. ()
- b. _____
- c. NAWAS
- d. Sheriff's Radio From Control Room

7. STATE OF WISCONSIN DIVISION OF EMERGENCY GOVERNMENT

- a. WI. DEG (Madison)-----< NAWAS
 - b. WI. DEG (Tomah)-----< (RadeF)
- NAWAS
Relay From Sheriff's Radio

8. STATE OF MINNESOTA DIVISION OF EMERGENCY SERVICES

- a. MN. DES (St. Paul)----- (RadeF)
(Patch In Through WI DEG & NAWAS)
- b. MN. DES & HOUSTON COUNTY EMERGENCY GOVERNMENT EOC (Caledonia, Mn)-----
Relay On Sheriff's Radio
Point To Point From
Viroqua to Caledonia

9. U. S. NUCLEAR REGULATORY COMMISSION

- a. NRC RED PHONE---ENS
- b. NRC HP HOTLINE

10. JPIC (Stoddard Elementary School)-----

KEY COMMUNICATIONS LIST - (Cont'd)

- 11. INPO-----
- 12. LOCK AND DAM NO. 8-----
- 13. LA CROSSE LUTHERAN HOSPITAL EMERGENCY---
- 14. VERNON MEMORIAL HOSPITAL EMERGENCY
 - a.
 - b.
- 15. TRI-STATE AMBULANCE SERVICE
 - a.
 - b. (Relay From Viroqua)
 - c. (Relay From De Soto)
- 16. ST. CHARLES CATHOLIC SCHOOL (Genoa Site Personnel Offsite Evacuation Point)
 - a.
 - b.

APPENDIX G

LACBWR PERSONNEL AVAILABLE FOR STAFF AUGMENTATION
(Refer to LACBWR Phone List)

It may be necessary under emergency conditions to augment the LACBWR staff onsite. Activation and augmentation of the Emergency Operations Facility and the Technical Support Center are covered separately in EPP-2.

SUPPORT FOR OPERATIONS (Including Firefighting Rescue and First Aid)

Senior Reactor Licensed Management Personnel

Larry Kelley
Marc Polsean
George Boyd
Roger Christians
Lynne Goodman
John Parkyn
Jeff Gallaher
Richard Cota
Robert Ganser
Paul Moon

Operators

Mike Johnsen	Gary Whynaucht
Steve Buck	Duane Stalsberg
Gerald Dunnum	Timothy Krueger
Tony Startz	Jon Crusan
Paul Crandall	Galen Schneberger
Gregory Holmstadt	Dan Johnson
Randy Thorson	Ron Pennebecker
Mike Wilchinski	Mark Gindt
Gerald Gadow	Robin DeClute
Dale Croonquist	

RADIOLOGICAL SUPPORT (Inplant Surveys, Offsite Surveys, and Dose Assessment Assistance)

Fred Schroeder
Al Hansen
Mark Holmes
John Papierniak
Bill Montalvo
Jeanette Gaynor
Larry Nelson
Bruce Zibung
Paul Shafer

TECHNICAL SUPPORT

S. Raffety
R. Brimer
D. Rybarik
H. Towsley
R. Odegard
P. Sampson

SYSTEM REPAIRS

I&E Supervisor: W. Nowicki

Electrical: R. Gardner
R. Weise
E. Yeoman
D. Olson

Instrumentation: L. Mitchell
P. Hess
D. Flottmeyer
G. Gentry

Mechanical Maintenance Supervisor: P. Gray

Mechanical: John Tischer
Edmund Wolf
Reay Ross
Al Twinde
Jim Lintelman
Dave Carroll
Rodney Bolstad
Duane Froh
Michael Bina
John Russ

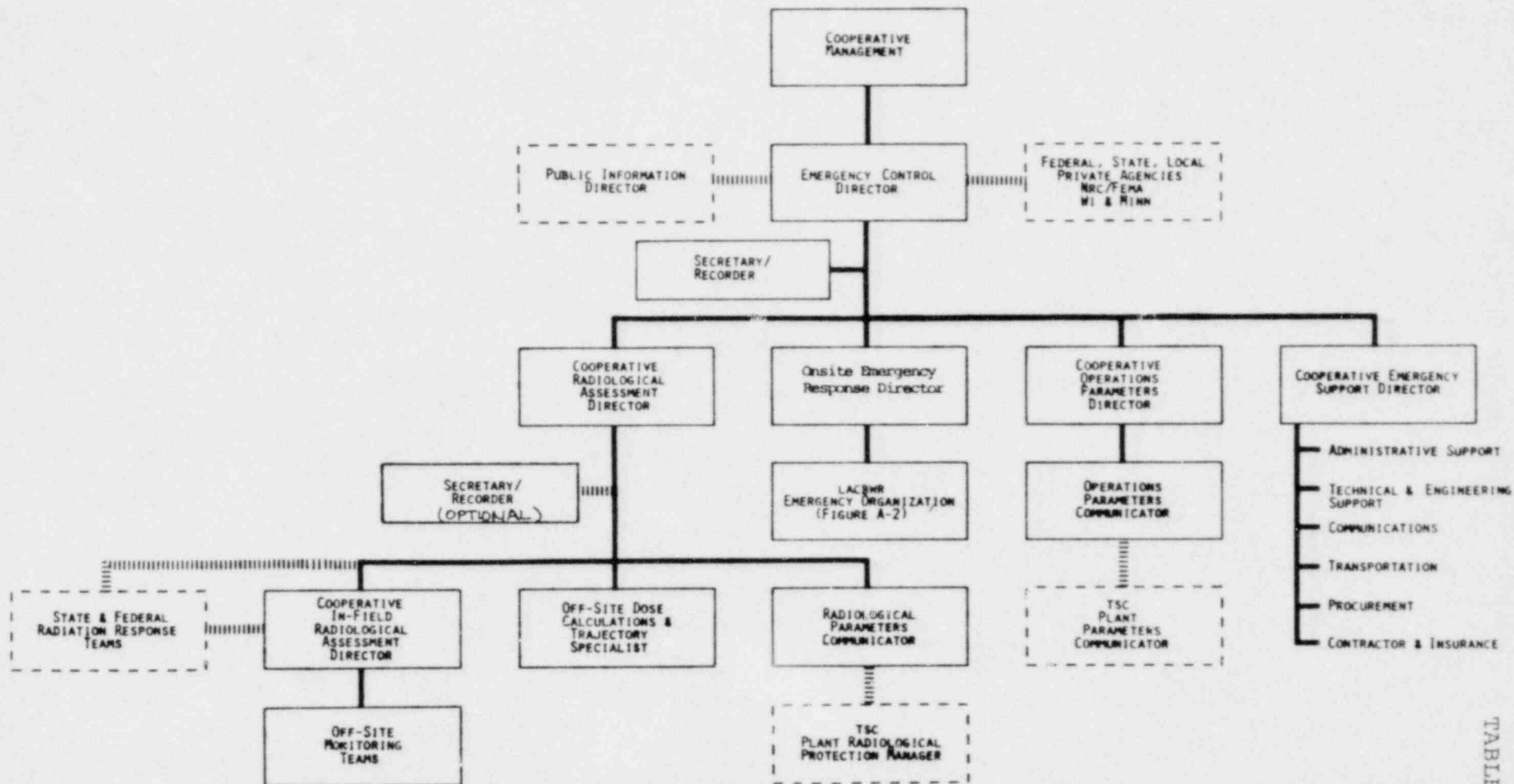
SITE SECURITY (Also Communications)

Contact the Security Sargeant and use any or all of the Shift Guard Force as required. The Security Sargeant can call in additional off-duty personnel as needed.

Gerald Joseph
John Parkyn

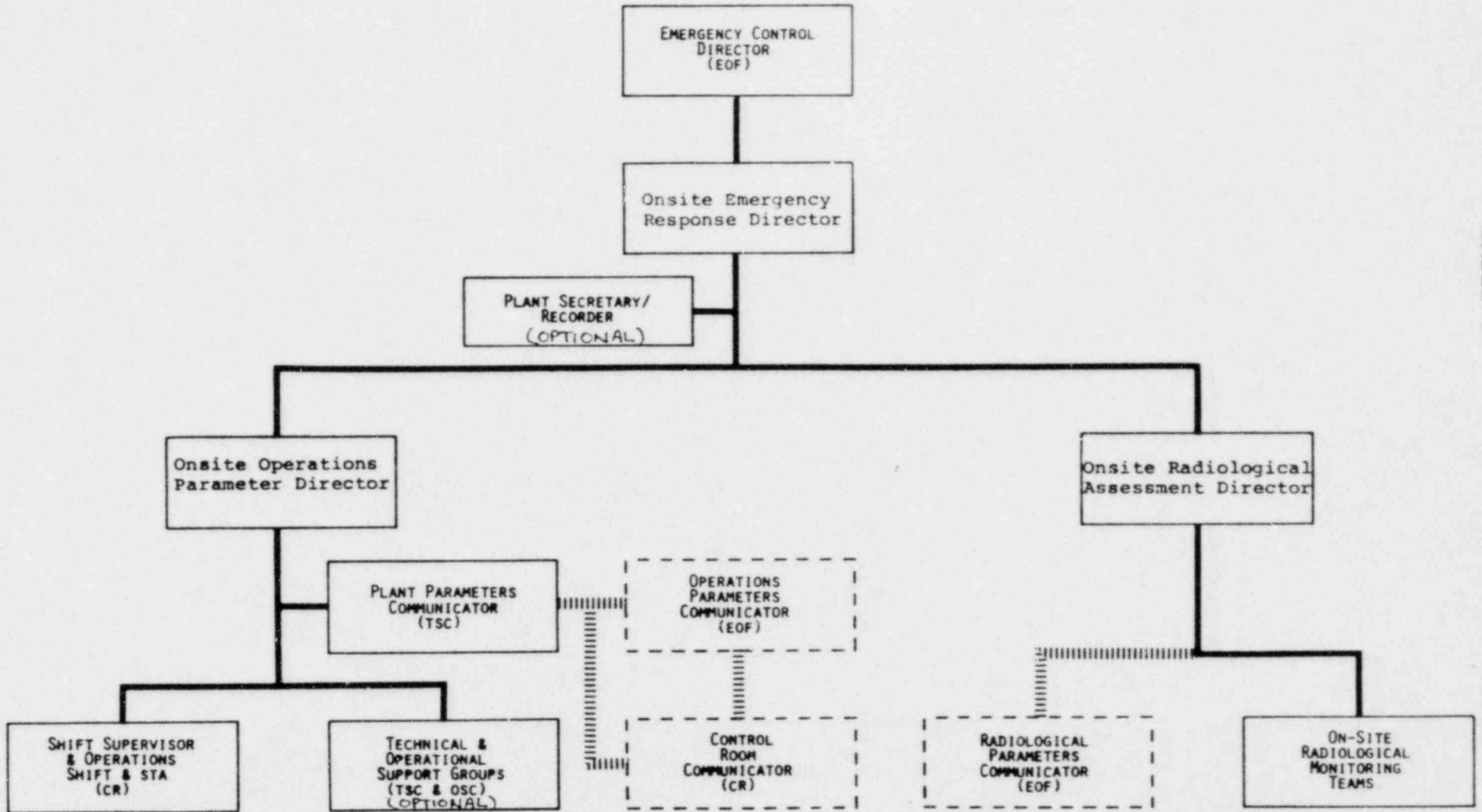
DPC EMERGENCY RESPONSE ORGANIZATION

FIGURE A-1



_____ Organization Control
 ||||| Interface/Communications

LACBWR EMERGENCY ORGANIZATION
FIGURE A-2



———— Organization Control
 ||||| Interface/Communications

TABLE 2

Page 52
 EPP-2
 Issue 5

OPD

TABLE 4
DAIRYLAND POWER COOPERATIVE
EMERGENCY OPERATIONS FACILITY/TECHNICAL SUPPORT CENTER
REACTOR OPERATIONS PARAMETERS
COMMUNICATIONS

DATE: _____
TIME: _____
INITIALS: _____

MESSAGE # _____

TO/FROM: _____	TSC	FROM/TO: _____	EOF
(Circle _____	CONTROL ROOM	(Circle _____	TSC
One) _____	OSC - 2 (Genoa 1)	One) _____	CONTROL ROOM
_____	EOF	_____	OSC - 2 (Genoa 1)

MESSAGE:

1. Reactor Water Level _____ in. (Safety Channels 1, 2, 3) _____ (Wide Range)
2. Reactor Pressure _____ psig.
3. Reactor Temperature _____ °F.
4. Containment Building Isolated: _____ YES _____ NO
5. Emergency Systems in Operation:
 - a. Shutdown Condenser _____ YES _____ NO
 - b. ECCS _____ YES _____ NO
 - c. ACS _____ YES _____ NO
 - d. 1A Diesel/Generator _____ YES _____ NO
 - e. 1B Diesel/Generator _____ YES _____ NO
 - f. HPSW _____ YES _____ NO
 - g. ESWSS _____ YES _____ NO
6. Containment Building Pressure _____ psig Temp. _____ °F. Level _____ Inches
7. High Range C. B. Rad. Monitors (A) _____ R/hr (B) _____ R/hr
 Fuel Clad Degradation Indication:

<u>HRCB Rad Monitor</u>	<u>Fuel Degradation</u>
10 ¹ - 10 ² R/hr	0%
10 ³ - 10 ⁴ R/hr	~ 1%
10 ⁴ - 10 ⁵ R/hr	~ 10%
10 ⁵ - 10 ⁶ R/hr	~ 100%
8. Other significant Reactor Operations Parameters.

9. Current Emergency Classification Status:

_____ Unusual Event	_____ Site Area Emergency
_____ Alert	_____ General Emergency

Originators Name _____

Received By _____

R
A
D

TABLE 5
DAIRYLAND POWER COOPERATIVE
EMERGENCY OPERATIONS FACILITY/TECHNICAL SUPPORT CENTER
INPLANT RADIOLOGICAL PARAMETERS
COMMUNICATIONS

DATE: _____
TIME: _____
INITIALS: _____

MESSAGE # _____

TO/FROM:	_____ TSC	FROM/TO:	_____ EOF
(Circle	_____ CONTROL ROOM	(Circle	_____ TSC
One)	_____ OSC - 2 (Genoa 1)	One)	_____ CONTROL ROOM
	_____ EOF		_____ OSC - 2 (Genoa 1)
	_____ OTHER _____		_____ OTHER _____

MESSAGE:

1. Low Range ARM's (0-10⁴ mR/hr) _____ mR/hr ave. _____ mR/hr max # _____
2. ARM 7 (0-10⁵ mR/hr) _____ mR/hr
3. ARM 8 (0-10⁵ mR/hr) _____ mR/hr
4. H.R.C.B.A.R.M. (0-10⁸ R/hr) A _____ R/hr B _____ R/hr
5. Perimeter ARM
OSC 2 (Genoa 1) _____ mR/hr G-3 _____ mR/hr

6. STACK AIR MONITOR - Stack Blower Flow Rate:
_____ 0 cc/sec _____ 1.65 x 10⁷ cc/sec _____ 3.3 x 10⁷ cc/sec

- A. SPING-4
- | | | |
|---------------------|--------------------|------------------------------|
| 1. β Part _____ μCi | 3. I-131 _____ μCi | 5. LR Noble Gas _____ μCi/cc |
| 2. α Part _____ μCi | | 7. MR Noble Gas _____ μCi/cc |
| | | 9. HR Noble Gas _____ μCi/cc |

(To obtain source term in Ci/sec multiply the μCi/cc x cc/sec ÷ 10⁶ μCi/Ci)

- B. TRACER LAB
- | | | |
|--------------------------|-------------------------|------------------------|
| 1. Immed. Part _____ cpm | 2. Delay Part _____ cpm | 3. Noble Gas _____ cpm |
|--------------------------|-------------------------|------------------------|

7. Meteorological Information: Type of Release _____ None _____ Ground _____ Elevated

WS _____ mph @ _____ m	ΔT (100-10m) _____ °F
WD _____ ° @ _____ m	

8. Containment Building Air Monitor

- A. SPING-3
- | | | |
|---------------------|--------------------|------------------------------|
| 1. β Part _____ μCi | 3. I-131 _____ μCi | 5. LR Noble Gas _____ μCi/cc |
| 2. α Part _____ μCi | | 7. MR Noble Gas _____ μCi/cc |
- B. TRACER LAB
- | | | |
|--------------------------|-------------------------|------------------------|
| 1. Immed. Part _____ cpm | 2. Delay Part _____ cpm | 3. Noble Gas _____ cpm |
|--------------------------|-------------------------|------------------------|

9. Tunnel Mon. _____ cpm
10. Forced Circulation Pump Cub. Monitor _____ cpm.
11. Liquid Waste Monitor _____ cpm.
12. Additional Portable Radiological Surveys;

13. Current Emergency Classification:

_____ Unusual Event	_____ Site Area Emergency
_____ Alert	_____ General Emergency

Originator _____

Received By _____

Release Information to
Calculated Offsite Doses
(Complete 6A + 6B and 7)

IRAD

TABLE 6
DAIRYLAND POWER COOPERATIVE
EMERGENCY OPERATIONS FACILITY
INFIELD RADIOLOGICAL ASSESSMENT TEAMS
ASSESSMENT PARAMETERS RADIO COMMUNICATIONS

DATE: _____
TIME: _____
INITIALS: _____

MESSAGE # _____

TO/FROM:	Field RAP Team 1	FROM/TO:	EOF
(Circle One)	Field RAP Team 2	(Circle One)	Field Rap Team 1
	Field RAP Team 3		Field Rap Team 2
	EOF		Field Rap Team 3
	Other _____		Other _____

Direct Survey Information to Compare w/Calculated Offsite NG Doses

MESSAGE:
1. Location _____ Sector _____
Distance from LACBWR _____ mi.

2. Direct Immersion Dose Equivalent Rates _____ mR/hr _____ mRad/hr

3. Ground direct radiation readings:
_____ cpm β _____ cpm oc

4. Permanent Environmental Air Sampler Charcoal Cartridge changed to Ag-Zeolite _____ YES _____ NO Filter Paper Changed _____ YES _____ NO

a. _____ mR/hr β _____ mR/hr δ

b. Flow rate _____ cfm.

c. Total Flow _____ cf.

d. Filter gross beta counts _____ cpm.

e. Cartridge gross beta counts _____ cpm.

Analyzed Information to Compare w/Calculated Offsite I-131 Dose Equivalent

f. NaI(Tl) or Germanium MCA analysis results _____
Total SpA _____ μ Ci/cc, Isotopes: _____

5. Portable Radeco - DC Air Sample Taken _____ YES _____ NO _____ CHARCOAL _____ AgZeolite

a. Flow rate _____ lpm

b. Total sample time _____ min.

c. Total sample flow _____ lpm x _____ min. x $10^3 =$ _____ cc

d. Filter gross beta counts _____ cpm

e. Cartridge gross beta counts _____ cpm

Analyzed Information to Compare w/Calculated Offsite I-131 Dose Equivalent

f. NaI(Tl) or Germanium MCA analysis results:
Total SpA _____ μ Ci/cc, Isotopes: _____

6. Vegetation Sample Taken _____ YES _____ NO

7. Surface Soil Sample Taken _____ YES _____ NO

8. Surface Water Sample Taken _____ YES _____ NO

9. Milk Sample Taken _____ YES _____ NO

10. Weather Conditions _____

11. Other significant items: _____

Originators Name _____

Received By _____

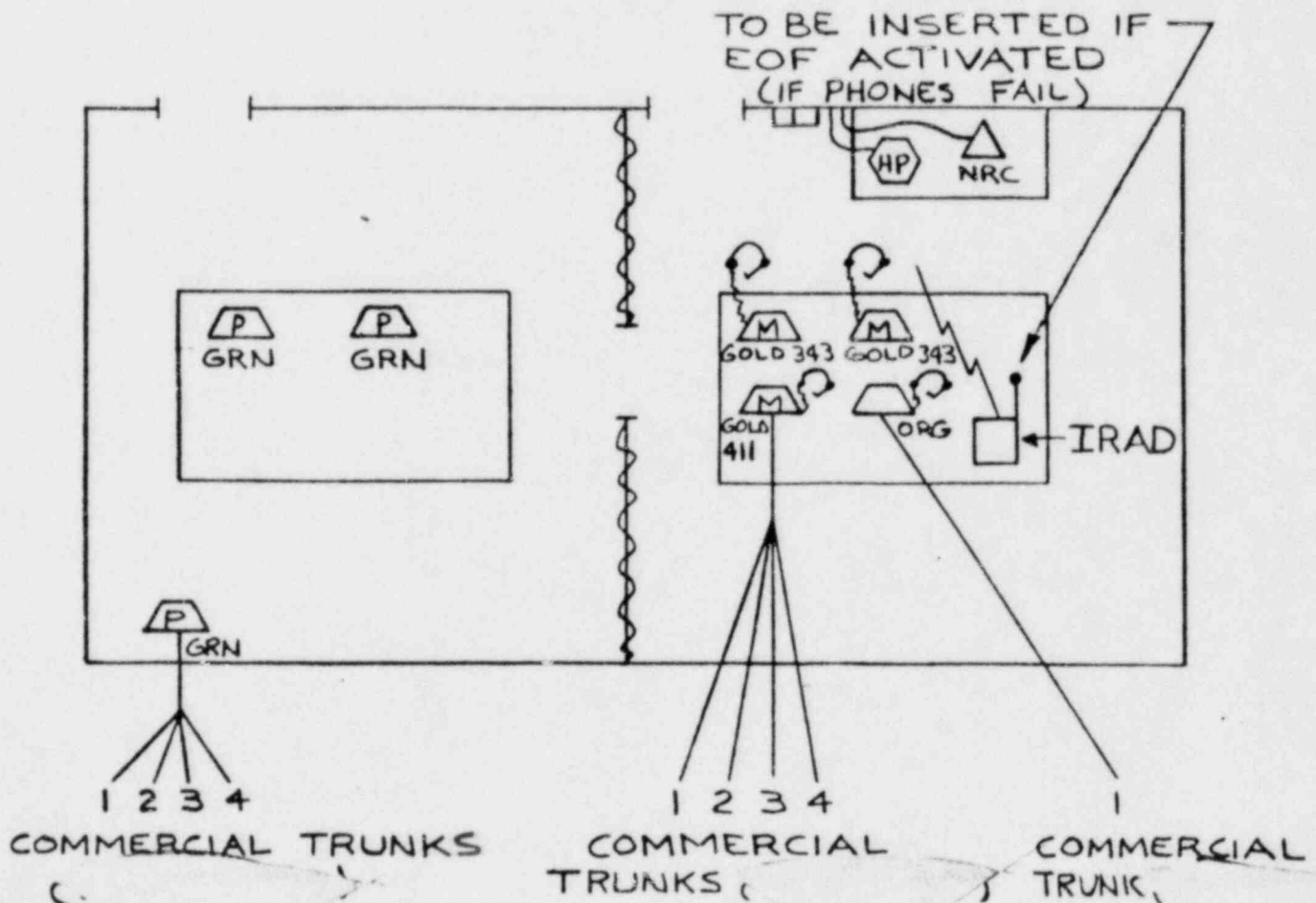
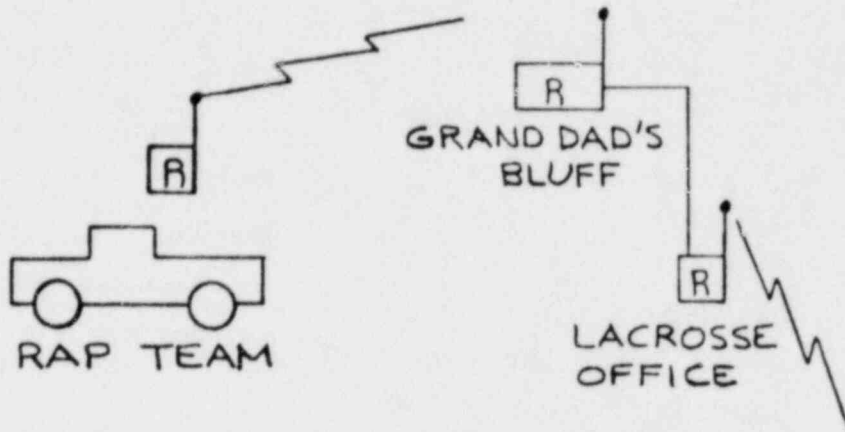
EMERGENCY OPERATIONS FACILITY
EMERGENCY CONTROL DIRECTOR'S
ACTIVATION CHECKLIST

INITIALS

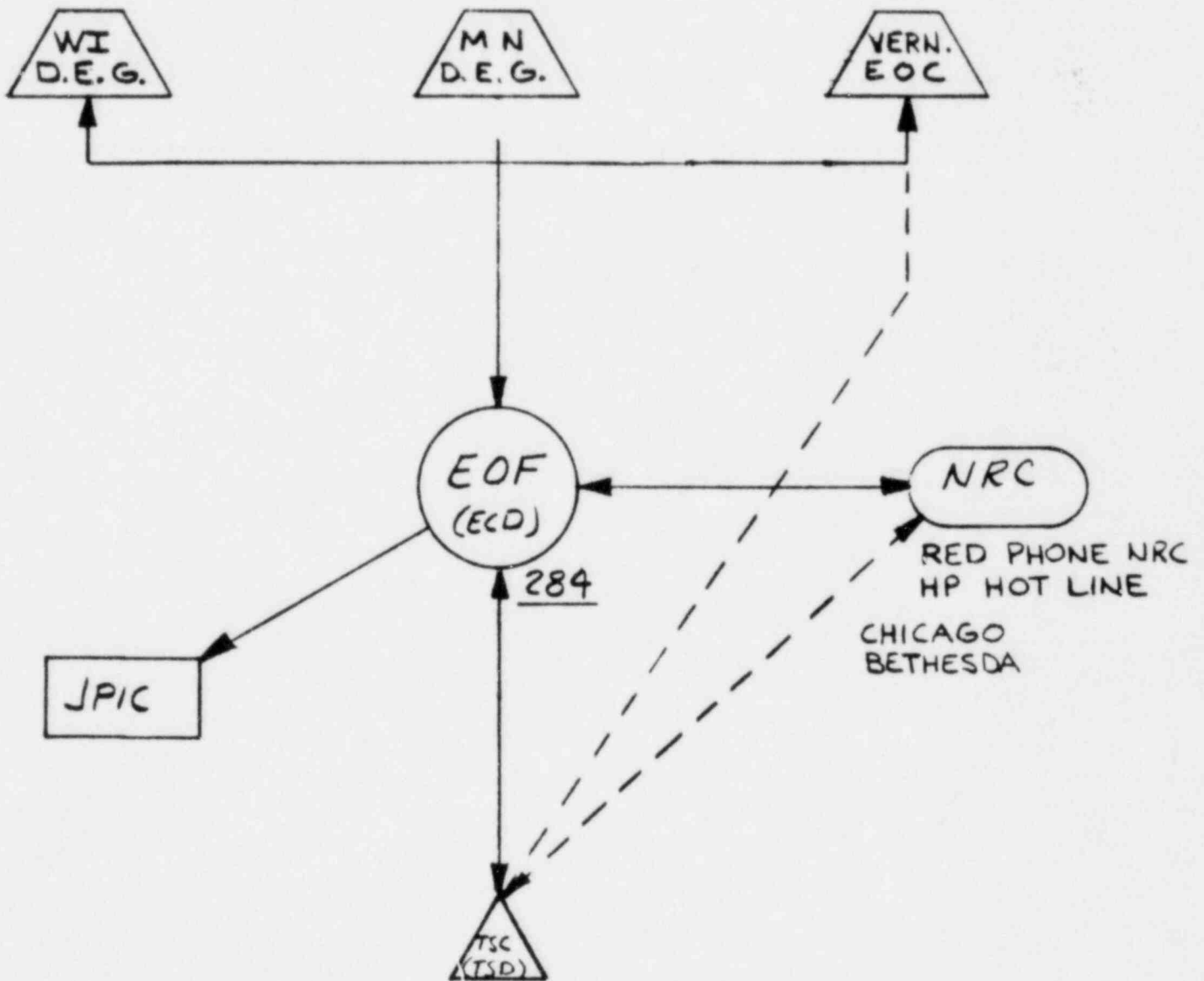
- _____ All telephones and headsets hooked up properly and tested to be operational.
- _____ Communications forms available and distributed to appropriate EOF personnel.
- _____ Synchronize the wall clock and watches.
- _____ Procedure Book and Worksheet notebook in front of ECD and OPD and turned to Site Area Emergency of EPP-2.
- _____ All personnel are present in EOF and ready to go.
- _____ Offsite dose computer (TI-99) is working and ready to compute.
- _____ Maps and charts are in place.
- _____ Secretary is instructed that gold copy of communication forms are to be placed on bulletin board outside EOF.
- _____ EOF "Authorized Personnel Only" sign is on the door.
- _____ EOF "Name Tags" in place on table.
- _____ Proper "Emergency Status" sign affixed to board behind ECD.
- _____ Determine what phone numbers to use at TSC and Control Room to establish three-way OPD and two-way RAD communications. Enter on Communications Network Forms and place in front of communicators and on board behind ECD.
- _____ ECD contacts Shift Supervisor and receives status report and where in procedure EPP-2 to begin.
- _____ ECD assumes overall management control of Emergency Situation at LACBWR.
- _____ Communications networks with plant established.
- _____ Follow EPP-2 from here.



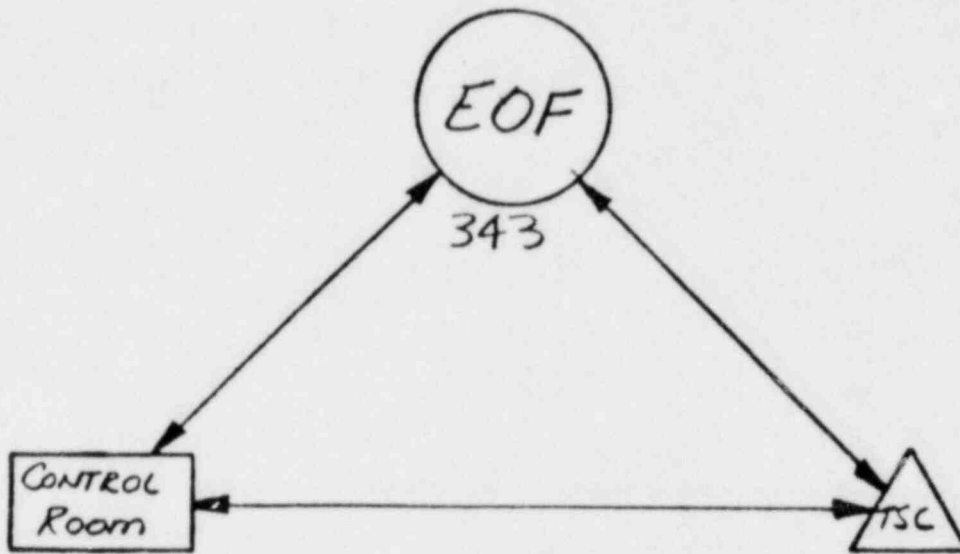
PUSH BUTTON PHONE
EXT. 7



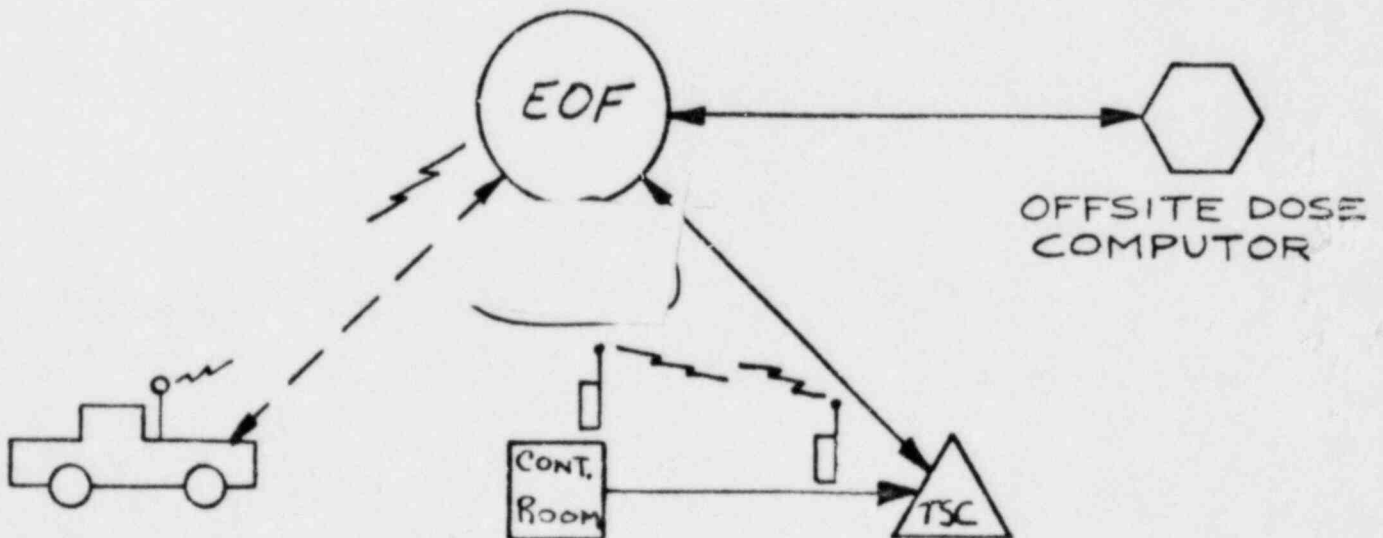
EMERGENCY CONTROL COMMUNICATIONS



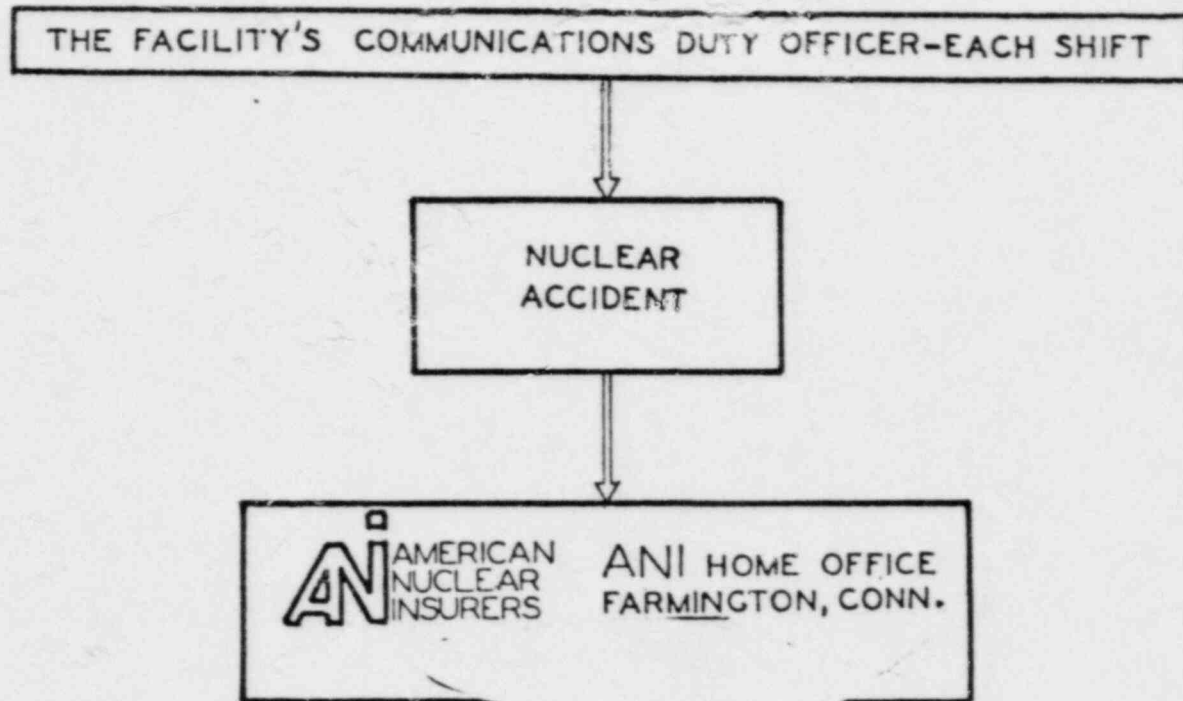
OPERATIONS COMMUNICATIONS



RADIOLOGICAL COMMUNICATIONS



ACCIDENT NOTIFICATION PROCEDURES FOR ANI INSUREDS



NOTIFICATION NOTES

- NOTIFY ANI AS SOON AS POSSIBLE AFTER DECLARATION OF A NUCLEAR ALERT, SITE AREA EMERGENCY, OR GENERAL EMERGENCY.
- 24 HOUR TELEPHONE COVERAGE PROVIDED FOR NUCLEAR ACCIDENT NOTIFICATION.
- REFER TO ANI INFORMATION BULLETIN 5B (81) FOR DESCRIPTION OF EMERGENCY CLAIMS ASSISTANCE AND ACCIDENT REPORTING INFORMATION REQUIREMENTS.
- IN ADDITION TO NOTIFICATION TO ANI, PROMPTLY NOTIFY YOUR COMPANY'S INSURANCE DEPARTMENT.