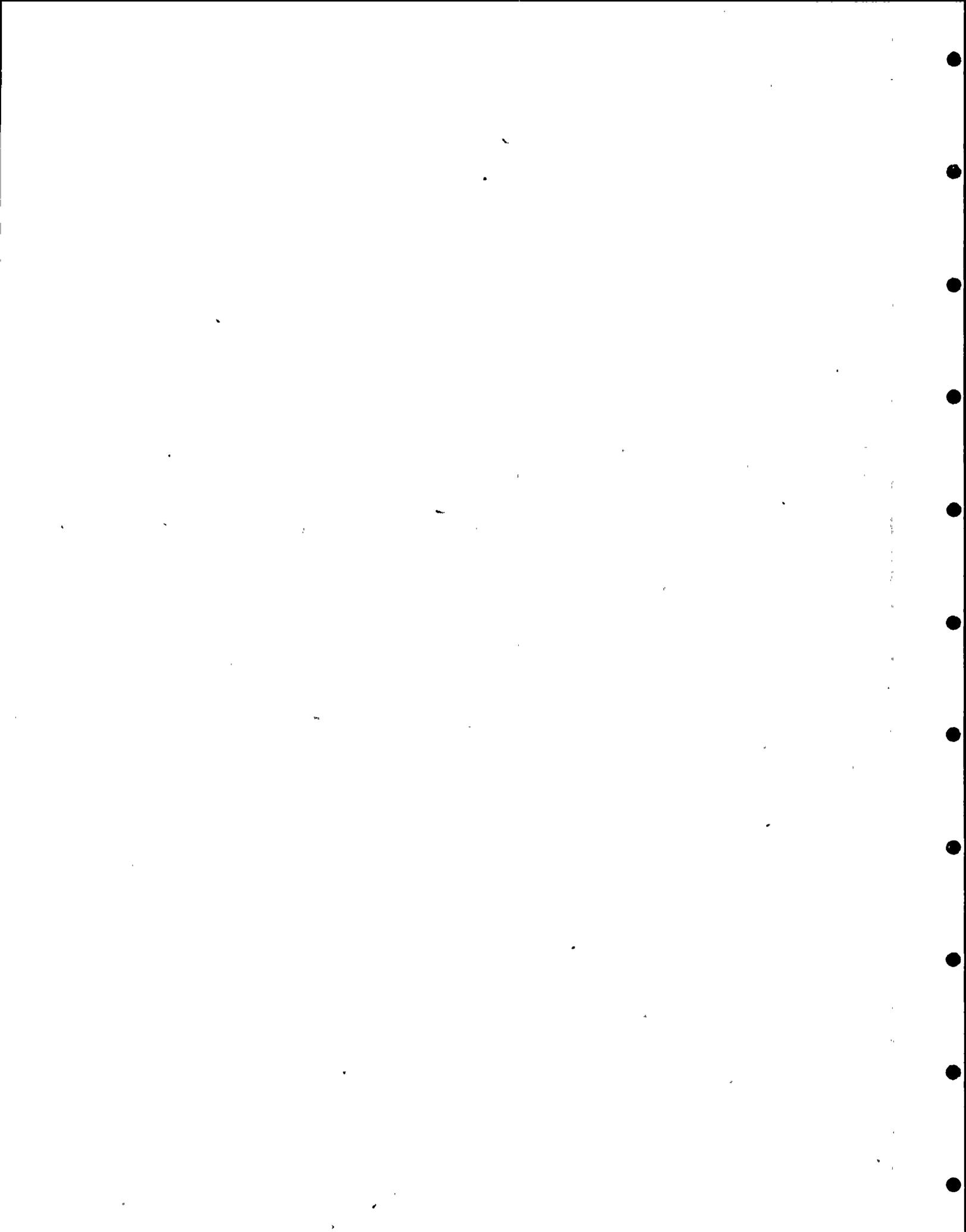


ATTACHMENT IV

NPAP A-5 Organizational Control of Emergencies




PG&E Pacific Gas and Electric Company
**DEPARTMENT OF NUCLEAR PLANT OPERATIONS
NUCLEAR PLANT ADMINISTRATIVE PROCEDURE**
**NUMBER NPAP A-5
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TITLE ORGANIZATIONAL CONTROL OF EMERGENCIES
**APPROVED _____
MANAGER**
SCOPE

PRELIMINARY

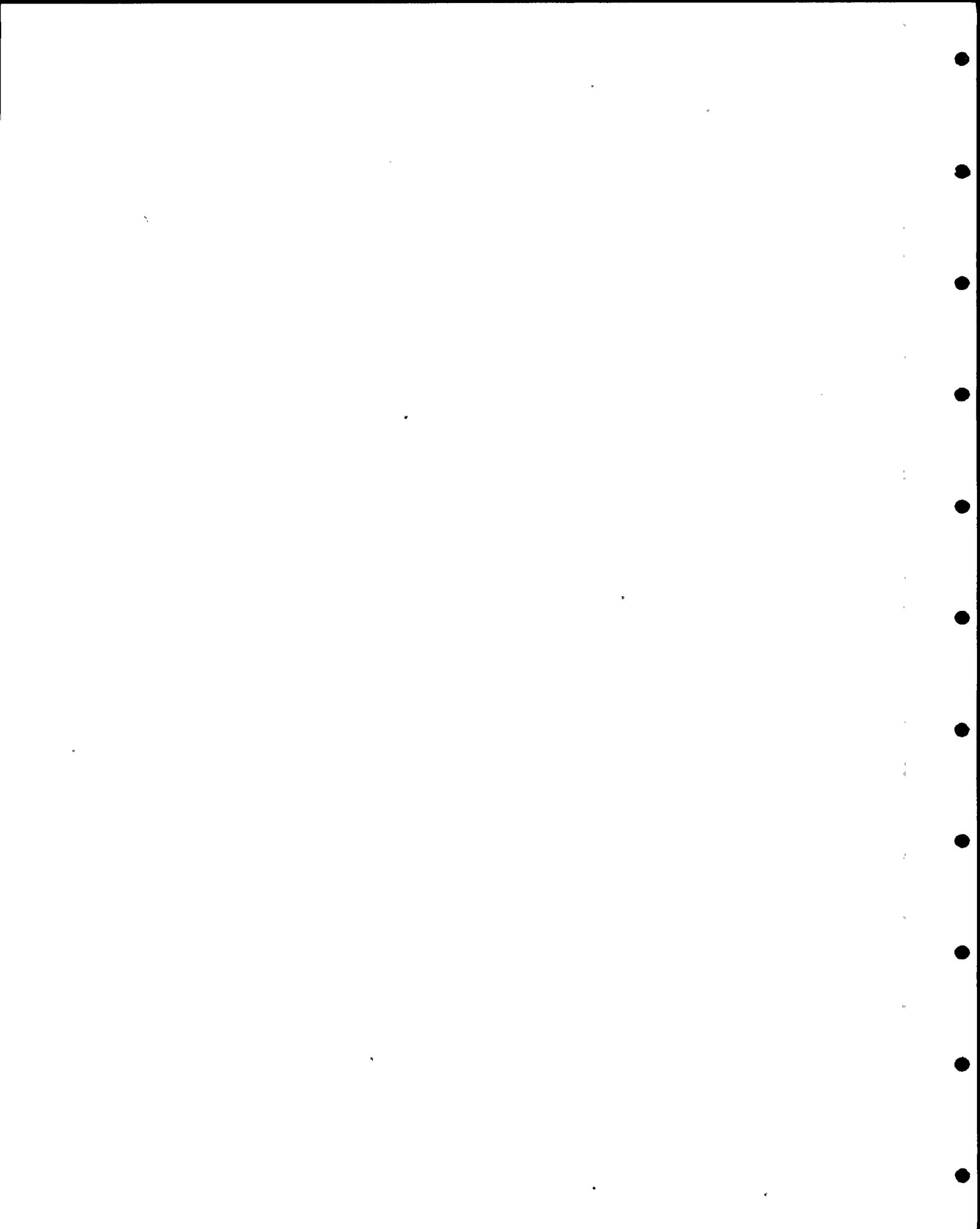
This administrative procedure discusses the suggested organization of the plant staff for major emergencies, identifies occurrences when the onsite emergency organization should be established, briefly describes the offsite corporate emergency organization, and discusses the interfaces between the two organizations.

DISCUSSION

Effective emergency response requires that an emergency organization appropriate to the circumstances be quickly established and staffed, both on and offsite. One purpose of this procedure is to identify the various functional positions which may be required in the onsite emergency organization and to suggest an organizational structure which will efficiently carry out these requirements. This guidance can be utilized in the preparation of detailed emergency plans and procedures for each site. The nature of emergencies is that they are highly unpredictable, and an effective emergency organization must be flexible enough to meet the particular circumstances. Thus, it is expected that for some events certain functions in the suggested organization may be unnecessary, while for others there may be additional functions required (particularly for the long term recovery program). The previous limitations notwithstanding, however, there is merit in adhering to the basic framework of the suggested onsite organization, if only that it enables interfacing offsite organizations to anticipate what will be taking place (organizationally) onsite in order to better prepare their own plans.

A second purpose of this procedure is to outline the Corporate Emergency Organization and indicate the manner in which it interfaces with the Site Emergency Organization.

When an occurrence requires the establishment of onsite and offsite emergency organizations, various levels of management personnel may be brought more directly into the operational decision making process than is normally the case. A third purpose of this procedure is to establish the working relationships of these personnel to the normal operating crew.



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PROCEDURE

1. Onsite Emergency Organization

a. Suggested Organization

Figures 1 and 2 show suggested interim and long-term onsite organizations for a major emergency. The basic functions of each position in the suggested organization are given in Table 1.

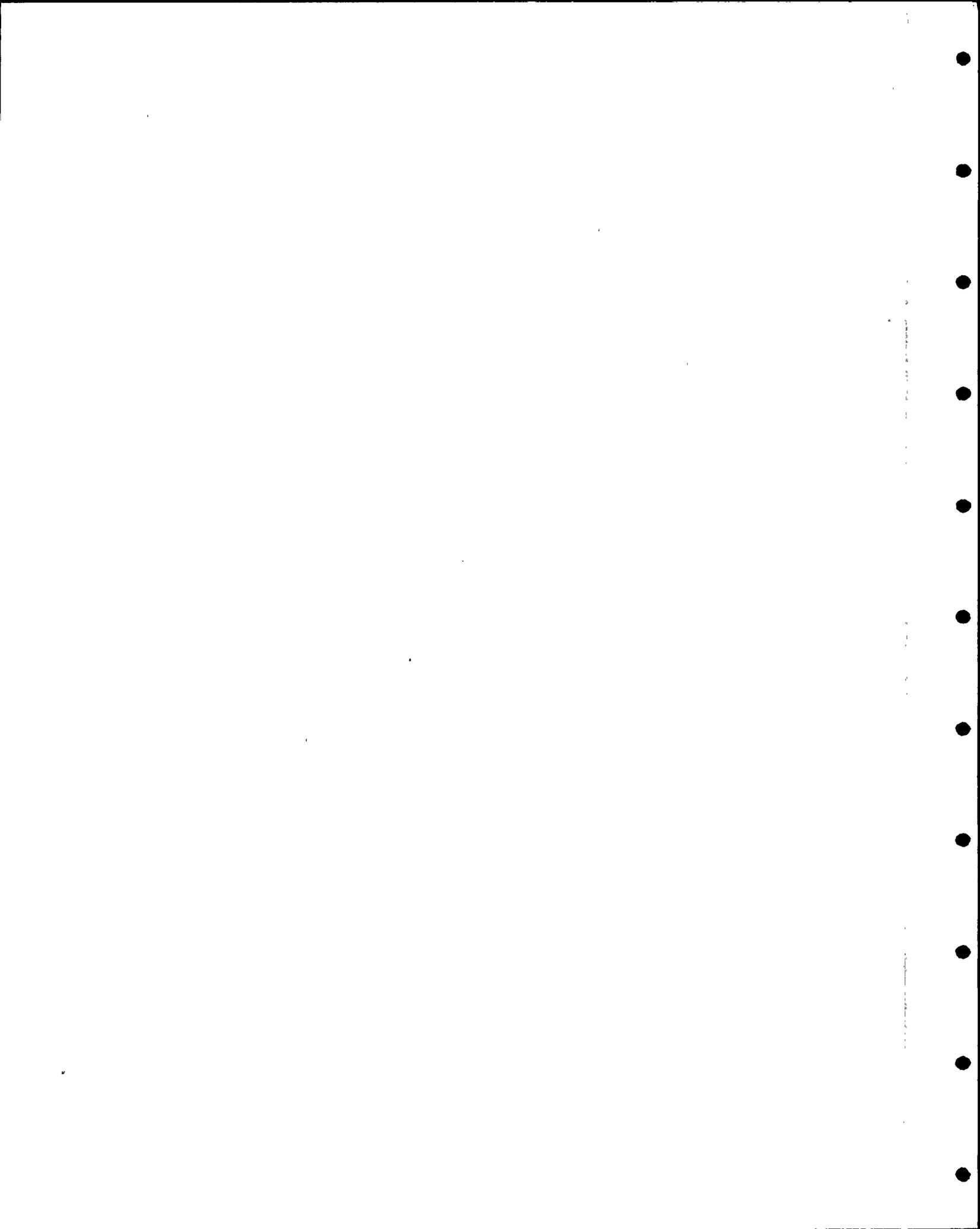
- 1) The purpose of Figures 1 and 2 is to provide general guidance for the development of emergency plans and procedures for each plant. The general guidance of this procedure may be tailored to fit the specific needs of each plant.
- 2) Each plant shall prepare an emergency procedure which shows the corresponding emergency organizations developed for the plant, and indicates the preferred candidates to fill each position in both the interim and long term cases.

b. Actions of the Interim Site Emergency Coordinator (Shift Foreman)

- 1) In the event of an emergency, the Shift Foreman shall assume the function of Interim Site Emergency Coordinator. As such, he shall carry out the following immediate actions:
 - a) Assure that any necessary alerting or notification of onsite personnel is accomplished. This may involve sounding of the site emergency warning signal.
 - b) Deploy the onsite plant staff members into an interim Onsite Emergency Organization which is appropriate for the circumstances. The guidance of Figure 1 (or the corresponding figure in the applicable emergency procedure) should be utilized.

Although the appropriate organization for any specific occurrence is left to the discretion of the Interim Site Emergency Coordinator, he shall as a minimum appoint:

- (1) A Liaison Coordinator who shall conduct the required notification of offsite personnel and agencies, and;
- (2) An Operations Coordinator who possesses a Senior Operator License and assures that all necessary operational matters are taken care of.



- 2) The Shift Foreman shall remain in the control room, where he is responsible for overall command and control of the emergency. He shall not become totally involved in any single operation, but shall maintain a broad perspective of operational conditions affecting the safety of the plant. See also Nuclear Plant Administrative Procedure A-102.

c. Immediate Responsibilities of the Shift Engineer

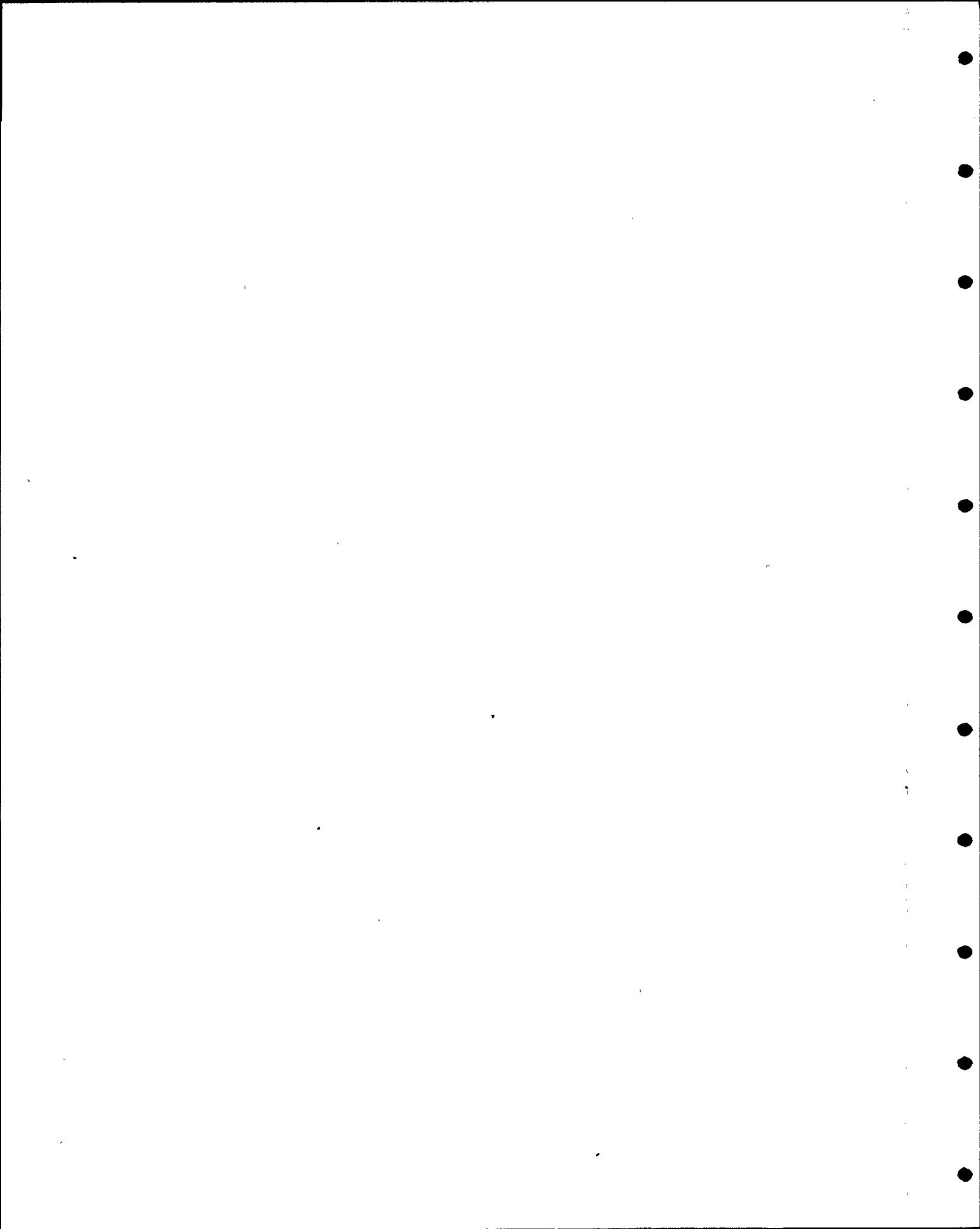
The Shift Engineer's immediate responsibility is to advise the Shift Foreman as to the nature of the occurrence, possible consequences, and possible courses of action. In an occurrence where inadequate core cooling is a possibility, the Shift Engineer shall concentrate in the evaluation of this aspect of the emergency. For other occurrences, he can and should look at the broader aspects of the evaluations process.

In the near term, the Shift Engineer is probably most effective in the control room. However, this is not a requirement and he may go to the Onsite Technical Support Center or other location if he and the Shift Foreman believe that he can function best from an alternate location.

d. Authorities in the Long Term Onsite Emergency Organization

- 1) When additional plant staff personnel are called in to supplement the shift organization to form a long term Site Emergency Organization, the Shift Foreman may relinquish his position as Site Emergency Coordinator to an appropriate member of the plant management organization. However, the Shift Foreman shall retain his command and control function in the control room unless formally relieved of this responsibility. The Shift Foreman may only be relieved of this latter responsibility by another individual qualified to serve as Shift Foreman (see Nuclear Plant Administrative Procedure A-102).
- 2) The individual with command and control responsibility in the control room has the authority to veto any action recommended by onsite managers and advisors which, in his opinion, violates the facility license or otherwise compromises safety.
- 3) The Site Emergency Coordinator shall have overall control of onsite emergency actions,¹ and all significant onsite activities shall be approved by him or his delegate.

¹As well as offsite actions prior to the establishment of the Corporate Emergency Response Organization.



2. Offsite Recovery Center Organization

a. General

For emergencies classified as Alert, Site Emergency, or General Emergency, the Offsite Recovery Center shall be activated. This would ordinarily be accomplished by the Advisor to the County Emergency Organization and the Technical Advisor to the Public Information Recovery Manager from the plant staff (see Figure 2). In addition, the Corporate Emergency Response Plan would be activated. This may (at the discretion of the Corporate Recovery Manager) result in the establishment of a Corporate Emergency Response Organization at the Offsite Recovery Center. This organization is shown in Figure 3.

b. Functions of the Corporate Emergency Response Organization

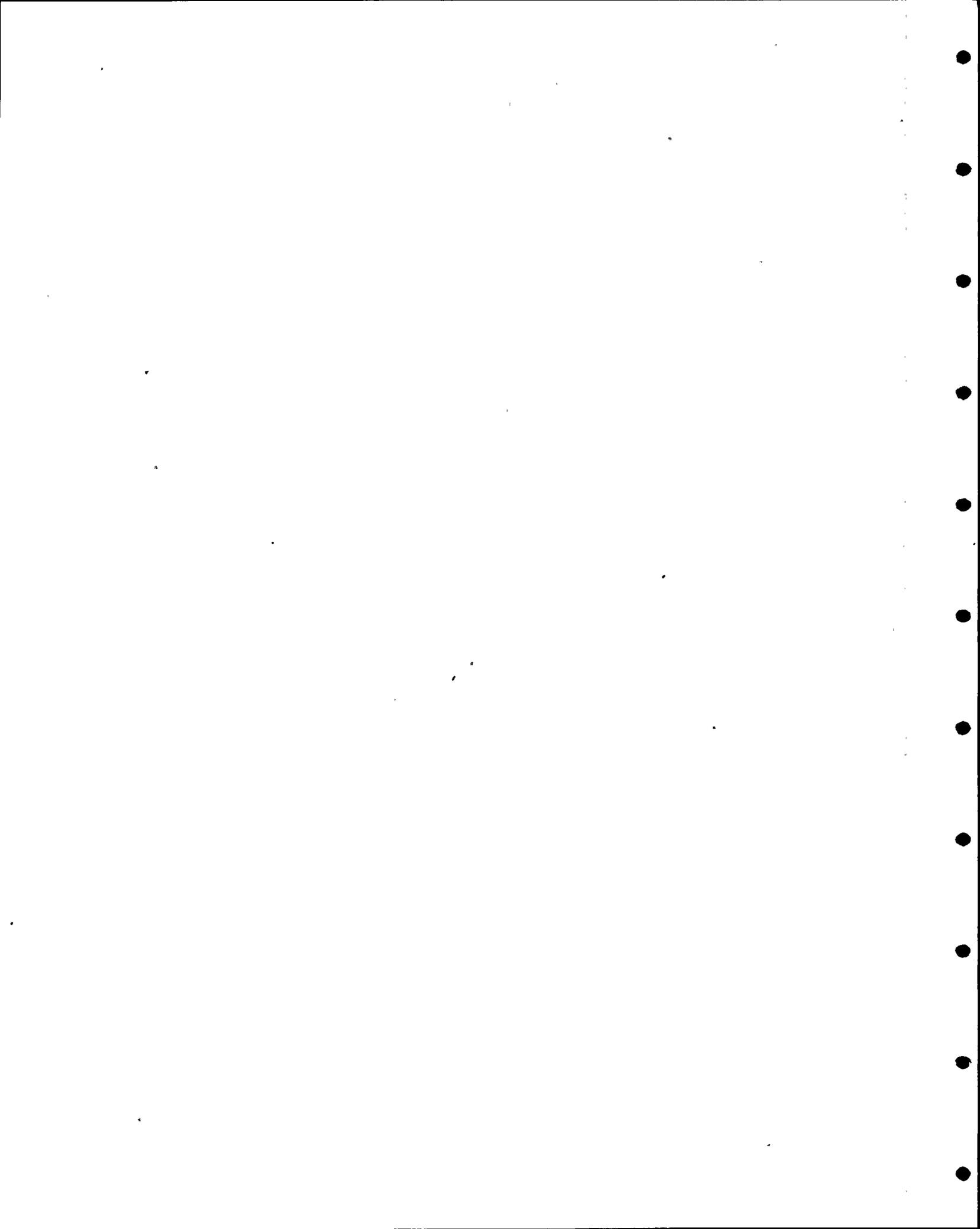
Once established, the Corporate Emergency Response Organization has the following general functions:

- 1) Advise the Onsite Emergency Organization in the development of the overall recovery program.
- 2) Arrange for any necessary corporate resources required by the onsite organization during the recovery effort.
- 3) Assume responsibility for interface with local government and other noncompany agencies.
- 4) Assume responsibility for release of public information.
- 5) Assume coordination of all offsite recovery efforts, such as monitoring programs.

c. Relationships with Onsite Emergency Organization

Prior to the establishment of Corporate Emergency Response Organization, the Site Emergency Coordinator has complete control of all recovery efforts, and has the authority to take whatever action he feels is necessary. Once the Corporate Emergency Response Organization is established, however, the following relationship exists between the Corporate Recovery Manager, the Site Emergency Coordinator and their respective organizations.

¹Except that communications between the site and the NRC will continue to exist via the "hotlines."



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- 1) The basic relationship is that the corporate organization is an advisory body to the onsite organization. The licensed Senior Operator with the command and control function in the control room retains the authority to veto any recommended action from the corporate organization which, in his opinion, violates the facility license or otherwise compromises safety.
- 2) The Site Emergency Coordinator shall obtain approval from the Corporate Recovery Manager before authorizing any action which:
 - a) Violates any applicable facility license or permit.
 - b) Results in the exposure of personnel in excess of normal limits established in the Radiation Control Standards.
 - c) Results in any significant release of radioactivity to the environs, even if the release is within license limits.
 - d) Represents any significant deviation from established operating or emergency procedures.
- 3) The Site Emergency Coordinator shall keep the Corporate Recovery Manager immediately informed of all significant onsite activities.

3. Activation of Emergency Organizations

An appropriate onsite organization is established for all emergencies, although for many occurrences classed as Unusual Events, no restructuring of the shift organization is warranted. The Corporate Emergency Organization is formally activated, as are the onsite Technical Support Center, onsite Operators Support Center, and Offsite Recovery Center, for emergencies classed as Alert, Site Emergency, or General Emergency.

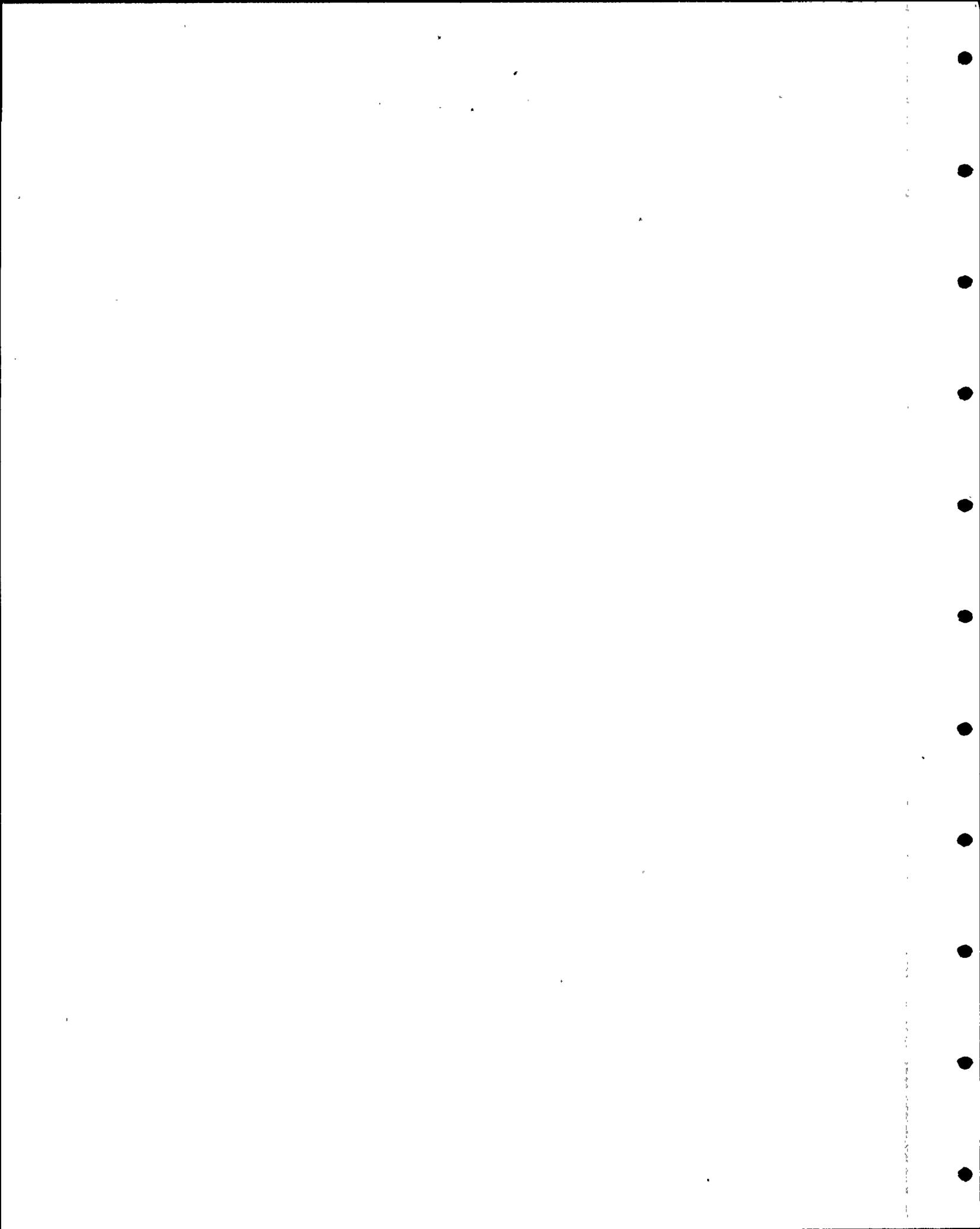


TABLE 1

SUMMARY OF INFORMATION REGARDING SUGGESTED POSITIONS
IN ONSITE EMERGENCY OPERATING ORGANIZATION
AND EMERGENCY SUPPORT TEAMS

A. Site Emergency Coordinator

1. General Duties and Responsibilities

- a. Make initial evaluation of situation.
- b. Authorize the sounding of the emergency signal.
- c. Notify or direct the notification of:
 - 1) Plant staff personnel.
 - 2) Company offsite emergency organizations.
 - 3) Local non-Company emergency support groups.
 - 4) Nuclear Regulatory Commission and State Office of Emergency Services.
- d. Assign plant staff personnel to positions in the Onsite Emergency Organization.
- e. Authorize the evacuation of the plant site and specify the appropriate evacuation route.
- f. Authorize overtime and other expenses associated with maintaining an appropriate Onsite Emergency Organization throughout the recovery period.
- g. Prior to the time that the Corporate Recovery Manager arrives at the local Offsite Recovery Center, the Site Emergency Coordinator is responsible to:
 - 1) Coordinate and direct all emergency operations performed by Company personnel in the vicinity of the plant site.
 - 2) Maintain liaison with offsite emergency support groups.
 - 3) Transmit any recommendations of the Company regarding evacuation, confiscation of food, or other emergency measures, to local non-Company emergency support groups.

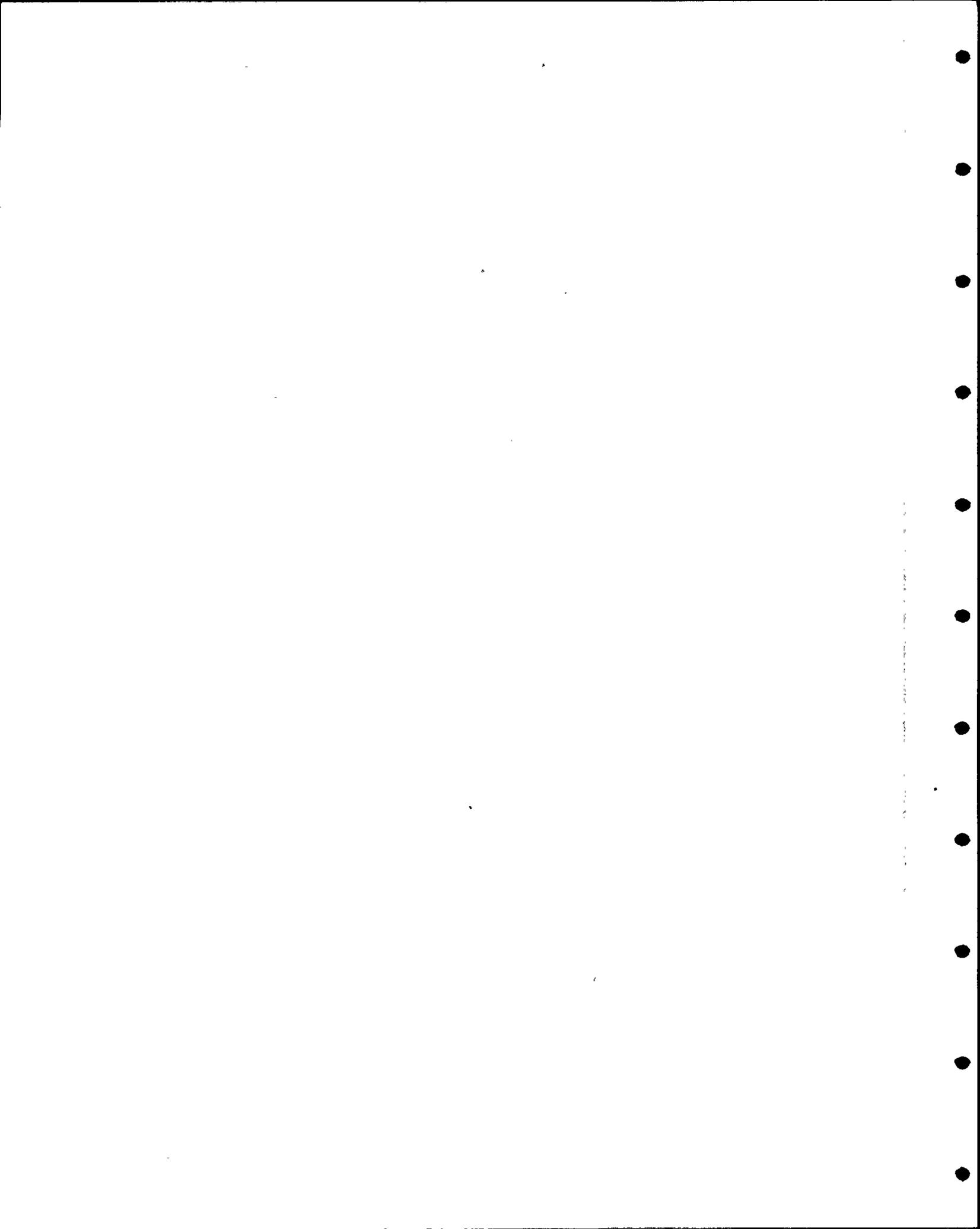


TABLE 1 (Continued)

- 4) Authorize any extraordinary emergency measures, such as use of emergency personnel exposure limits.
- h. After the Corporate Recovery Manager arrives in the local area, the Site Emergency Coordinator is responsible to:
 - 1) Coordinate and direct all onsite activities.
 - 2) Maintain liaison with offsite emergency support groups and work with the Corporate Recovery Manager in the development of a coordinated recovery action plan.
2. Suggested Emergency Headquarters
 - a. Interim - Control Room.
 - b. Long Term - Technical Support Center.
- B. Emergency Liaison Coordinator
 1. General Duties and Responsibilities
 - a. Handle telephone calls to and from site.
 - b. At direction of Site Emergency Coordinator, notify affected individuals and parties of the emergency.
 - c. Maintain contact with offsite support groups and monitoring teams and transmit instructions and information to and from Site Emergency Coordinator.
 - d. Provide general assistance to Site Emergency Coordinator.
 2. Suggested Emergency Headquarters
 - a. Interim - Control Room
 - b. Long Term - Technical Support Center

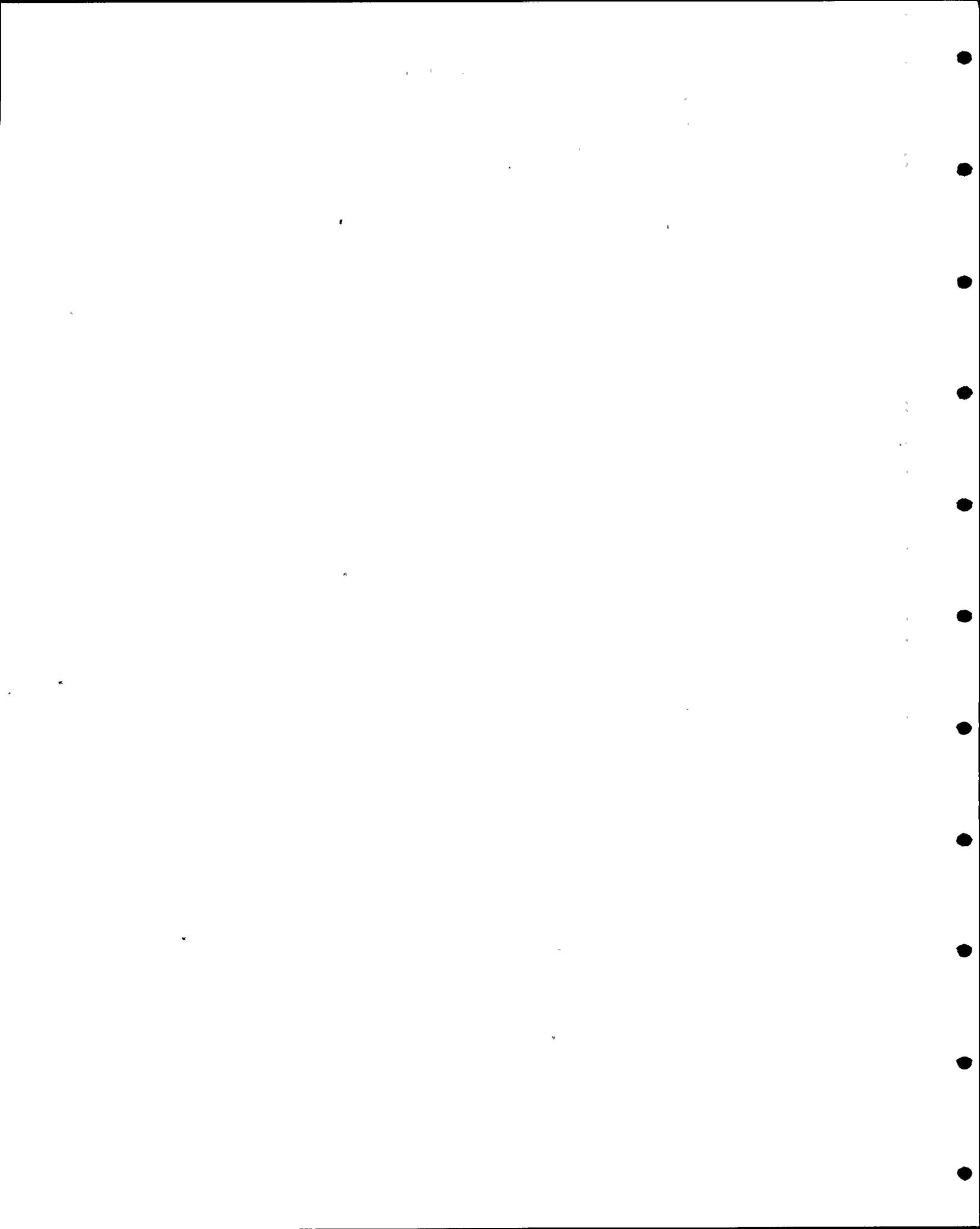


TABLE 1 (Continued)

C. Liaison Assistant

1. General Duties and Responsibilities

- a. Assist the Liaison Coordinator in making notifications and recording messages.
- b. Activate communications links between onsite Technical Support Center and control room, and onsite Technical Support Center and offsite locations.

2. Suggested Emergency Headquarters

Technical Support Center

D. Emergency Maintenance Coordinator

1. General Duties and Responsibilities

- a. Work with Site Emergency Coordinator to fabricate and set up any special equipment necessary for recovery operations.
- b. Coordinate the movement and accountability of support forces brought to the site.

2. Suggested Emergency Headquarters

Technical Support Center

E. Operations Support Center Supervisor

1. General Duties and Responsibilities

Supervise activities at the Onsite Operations Support Center.

2. Suggested Emergency Headquarters

Operations Support Center.

F. Emergency Operations Coordinator

1. General Duties and Responsibilities

- a. In the short term, this man would provide general assistance to the Shift Foreman (Interim Site Emergency Coordinator) in the following areas:

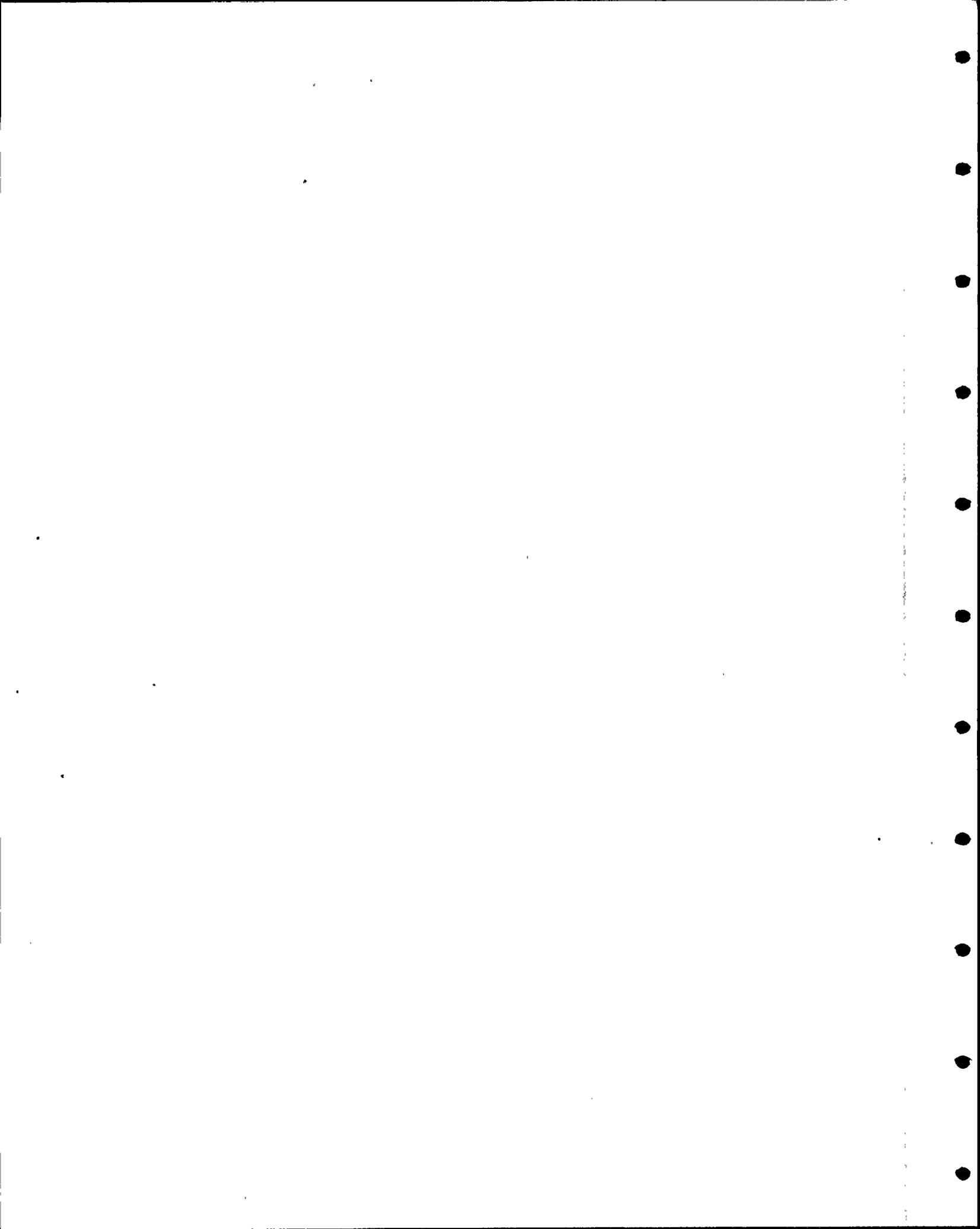


TABLE 1 (Continued)

- 1) Supervision of operators in the manipulation of plant controls.
 - 2) Supervision of operating activities which are conducted remote from the control room.
 - 3) Advise Shift Foreman on operational matters.
- b. In the long term, this man would have the command and control function in the control room, and would provide general coordination of operational activities. If the long term position holder is other than the Shift Foreman, the individual must be qualified to be a Shift Foreman and must formally assume this function.
2. Minimum Qualifications
- a. Interim
NRC Senior Operator License.
 - b. Long Term
Qualified to be a Shift Foreman.
3. Suggested Emergency Headquarters
- a. Interim
As directed by Shift Foreman.
 - b. Long Term
Control Room.
- G. Emergency Operations Advisor
- This is a position in the long term organization only. It is intended to be an individual knowledgeable in operational matters who would be assigned to the Technical Support Center to provide general advice and assistance to the Site Emergency Coordinator and other evaluations personnel stationed at this location.

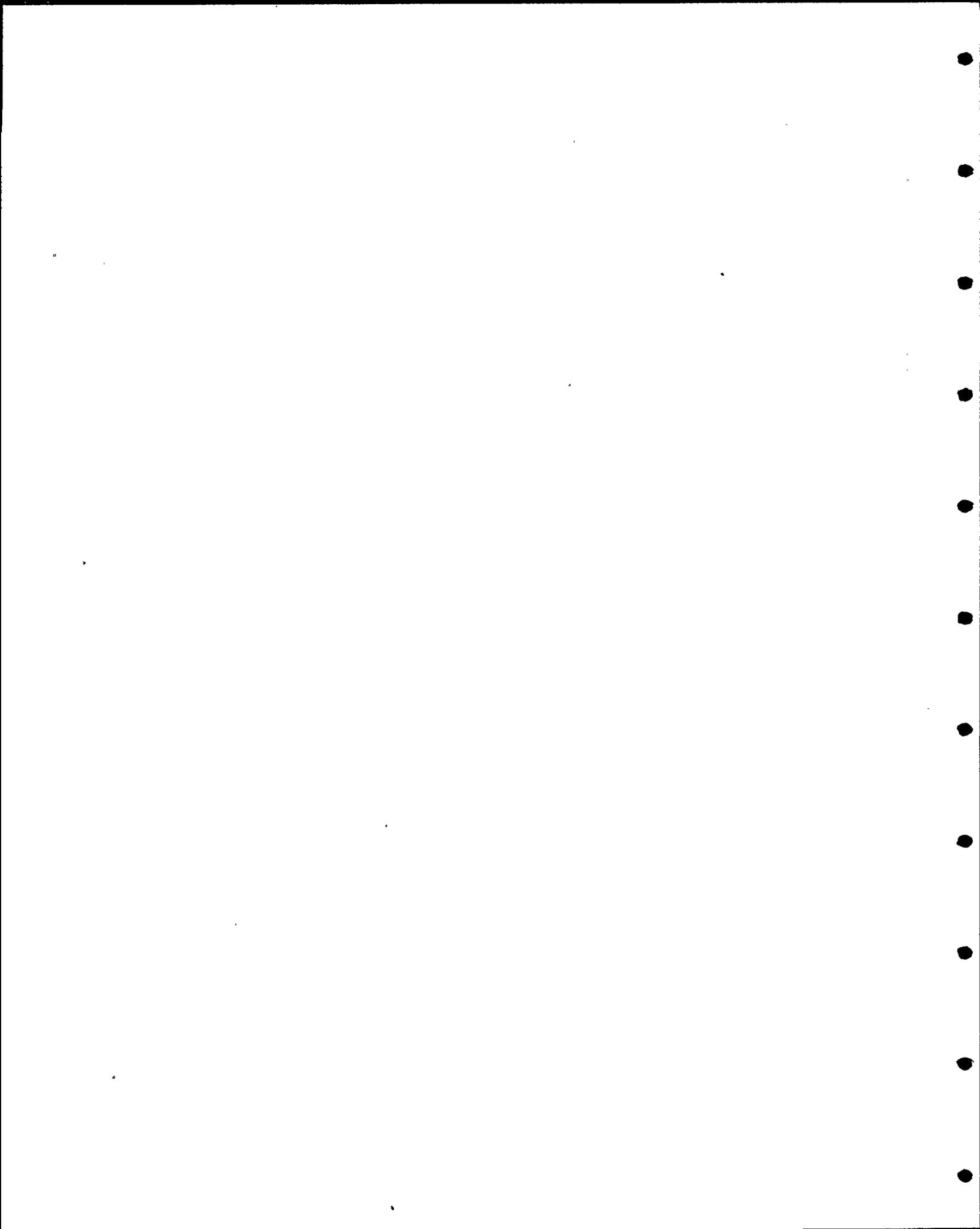


TABLE 1 (Continued)

H. Shift Engineer

This is a position in the Normal Operating Organization which would remain filled throughout the emergency recovery period. The principal function of this individual is to assist the Shift Foreman in the evaluation of the occurrence, with particular emphasis on advising the Shift Foreman in the near term on actions which can be taken to prevent or minimize core damage. In the near term he is probably most effective in the control room, although he may choose to operate from the Technical Support Center.

I. Emergency Evaluations Coordinator

1. General Duties and Responsibilities

- a. Evaluate the safety consequences of the occurrence and advise the Site Emergency Coordinator accordingly.
- b. Advise Site Emergency Coordinator on technical matters relating to nuclear and radiological safety.
- c. Advise the Site Emergency Coordinator of actions and findings of Company support groups.
- d. Assist Site Emergency Coordinator in determining personnel deployment to emergency support assignments.
- e. Prior to the time that the Corporate Recovery Manager arrives at the local Offsite Recovery Center, the Evaluations Coordinator is responsible for coordinating and supervising all Company Support team(s) operating at or in the vicinity of the site.
- f. After the Corporate Recovery Manager and his staff arrive at the local area, the Evaluations Coordinator will work with the Corporate Operations and Analytical Recovery Manager to provide overall coordination, supervision, and assessment of the nuclear safety aspects of the recovery program.

2. Suggested Emergency Headquarters

- a. Interim
Control Room or Technical Support Center.
- b. Long Term
Technical Support Center.

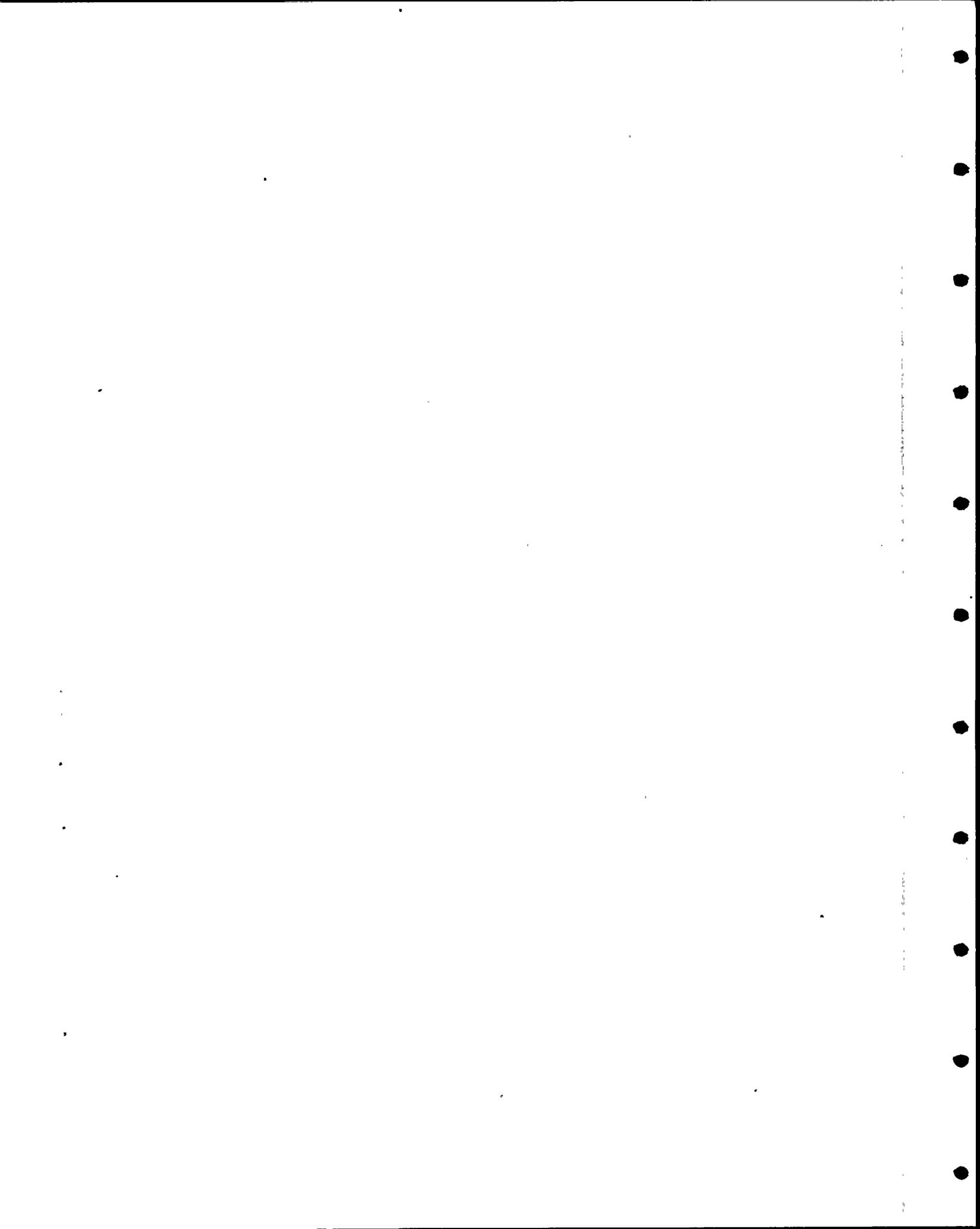


TABLE 1 (Continued)

J. Emergency Radiological Advisor

1. General Duties and Responsibilities

- a. Advise the Site Emergency Coordinator and/or Emergency Evaluations Coordinator on matters relating to radiological safety.
- b. Prior to the time that the Corporate Recovery Manager arrives at the local Offsite Recovery Center, the Emergency Radiological Advisor coordinates and supervises radiological surveys and investigations, both onsite and offsite.
- c. After the Corporate Recovery Manager and his staff arrive at the local area, the Emergency Radiological Advisor will coordinate and supervise all onsite radiological surveys and investigations, plus provide general supervision of the onsite radiation protection program. He will also work with the Corporate Radiological Emergency Recovery Manager in making an overall assessment of radiological conditions.

2. Suggested Emergency Headquarters

- a. Interim
Control Room, Technical Support Center, or radiation protection office area.
- b. Long Term
Technical Support Center or radiation protection office area.

K. Emergency Radiological Teams

Emergency Radiological Teams will ordinarily be two man teams which have the following duties and responsibilities:

1. Performing radiation surveys in and around the plant site and obtaining appropriate samples for analysis.
2. Establishing controlled access areas to contain or limit the spread of radioactive contamination.
3. Issuing personnel protective equipment and clothing.
4. Establishing and posting radiation and/or contamination area boundaries.

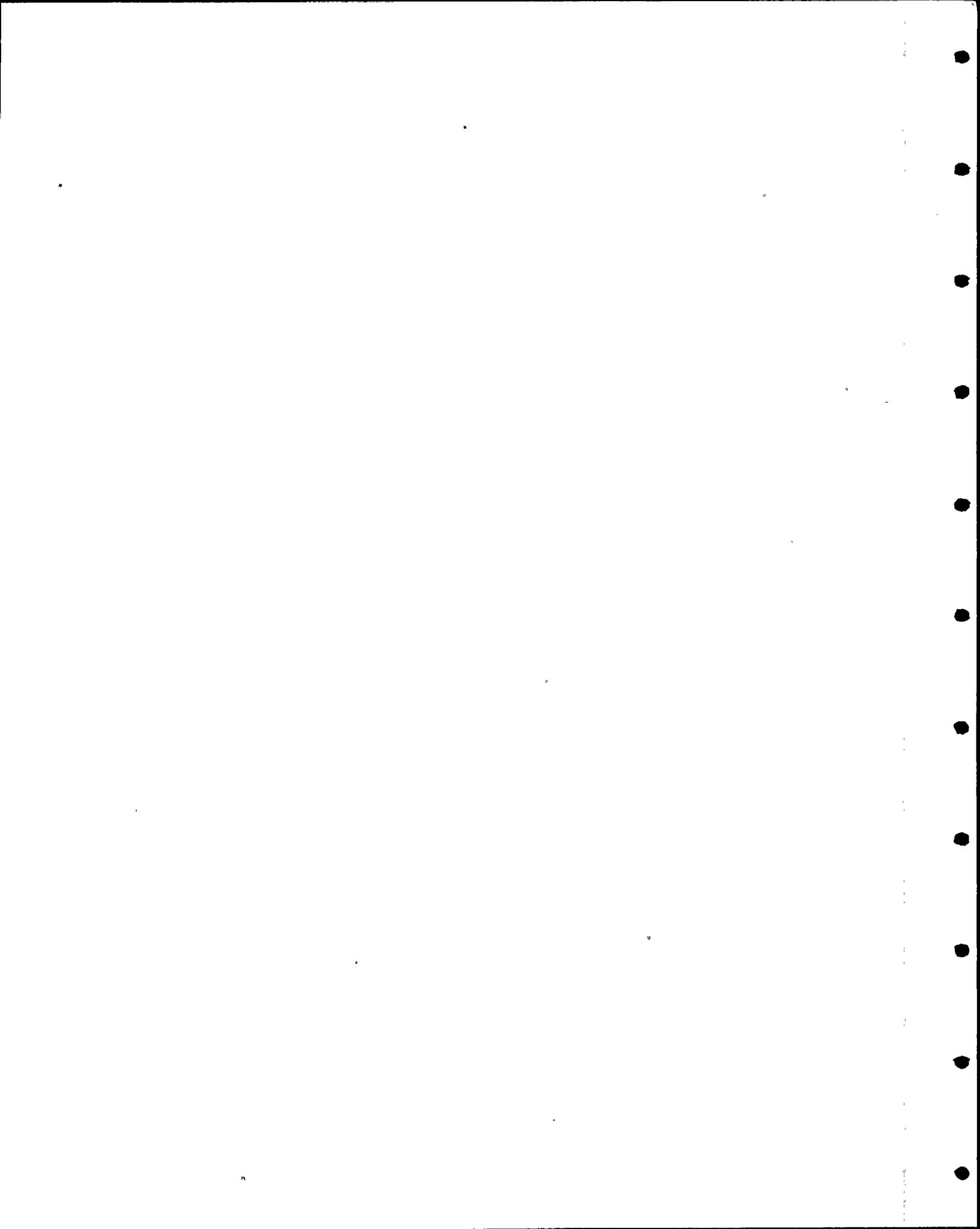


TABLE 1 (Continued)

5. Monitoring of personnel and evaluating their exposure.
6. Maintaining proper records and logs.
7. Keeping the Emergency Radiological Advisor and/or the Emergency Evaluation Coordinator informed of their actions and findings.

L. Fire Brigades

These teams are responsible for onsite fire suppression activities. Several teams are organized at each site. One is a shift team, composed mainly of operations personnel. The others are backup teams composed primarily of maintenance and technical personnel. Each team consists of a Captain and four or more members.

M. Evacuation Coordinator

1. General Duties and Responsibilities

Provide traffic control and general coordination of a site evacuation.

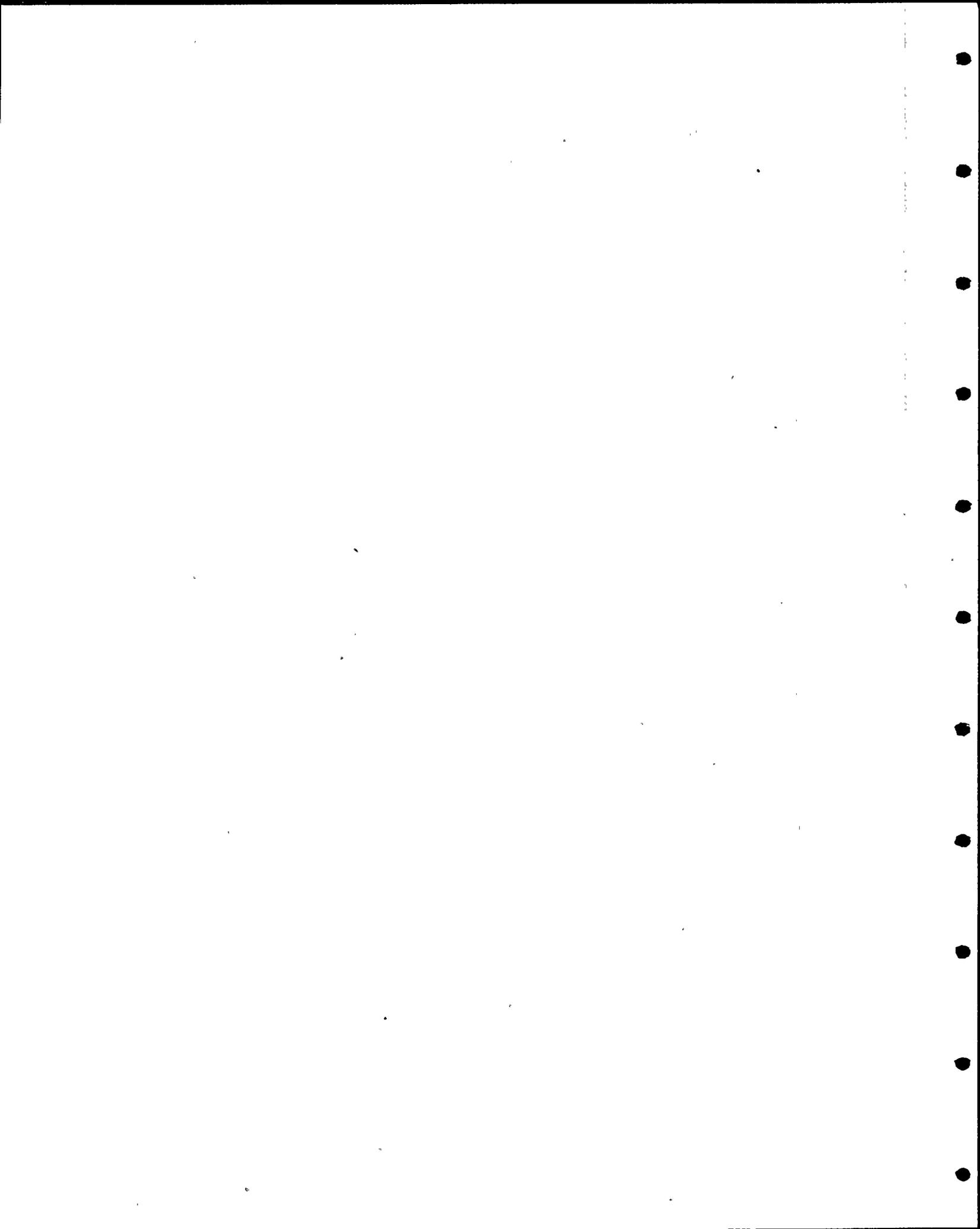
2. Suggested Emergency Headquarters

Onsite Operations Support Center

N. Evacuation Team

The Evacuation Team is a group of trained plant staff personnel who will accompany the evacuees in the event a site evacuation is necessary. The basic functions of this team are:

1. Assure the evacuees stay together and take the correct route.
2. Assist in personnel accountability at the evacuation collection area.
3. Secure radiation survey equipment and survey personnel and vehicles at the collection area.



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O. First Aid and Medical

Although the importance of providing prompt first aid is well recognized, no provisions are included for establishing a first aid team. Experience has indicated that when such a team is established, personnel who may be present at the scene, but are not on the "team," have a tendency to delay first aid until a team member arrives. Instead, all plant staff personnel receive first aid training, and are authorized to take action to the extent justified.

P. Data Processors

Technical personnel who are not otherwise occupied may be utilized to count radioactive samples, process meteorological data, make calculations and generally assist the Emergency Evaluations Coordinator in evaluating the consequences of the emergency.

Q. Advisor to the County Emergency Organization

1. General Duties and Responsibilities

The function of the Advisor to the County Emergency Organization is to activate the Offsite Recovery Center and be available to advise the County Emergency Organization on the meaning and significance of information being transmitted from the site.

2. Suggested Emergency Headquarters

Offsite Recovery Center

R. Technical Advisor to the Public Information Recovery Manager

1. General Duties and Responsibilities

Provide technical assistance to the Corporate Public Information Recovery Manager in the preparation of news releases.

2. Suggested Emergency Headquarters

Offsite Recovery Center.

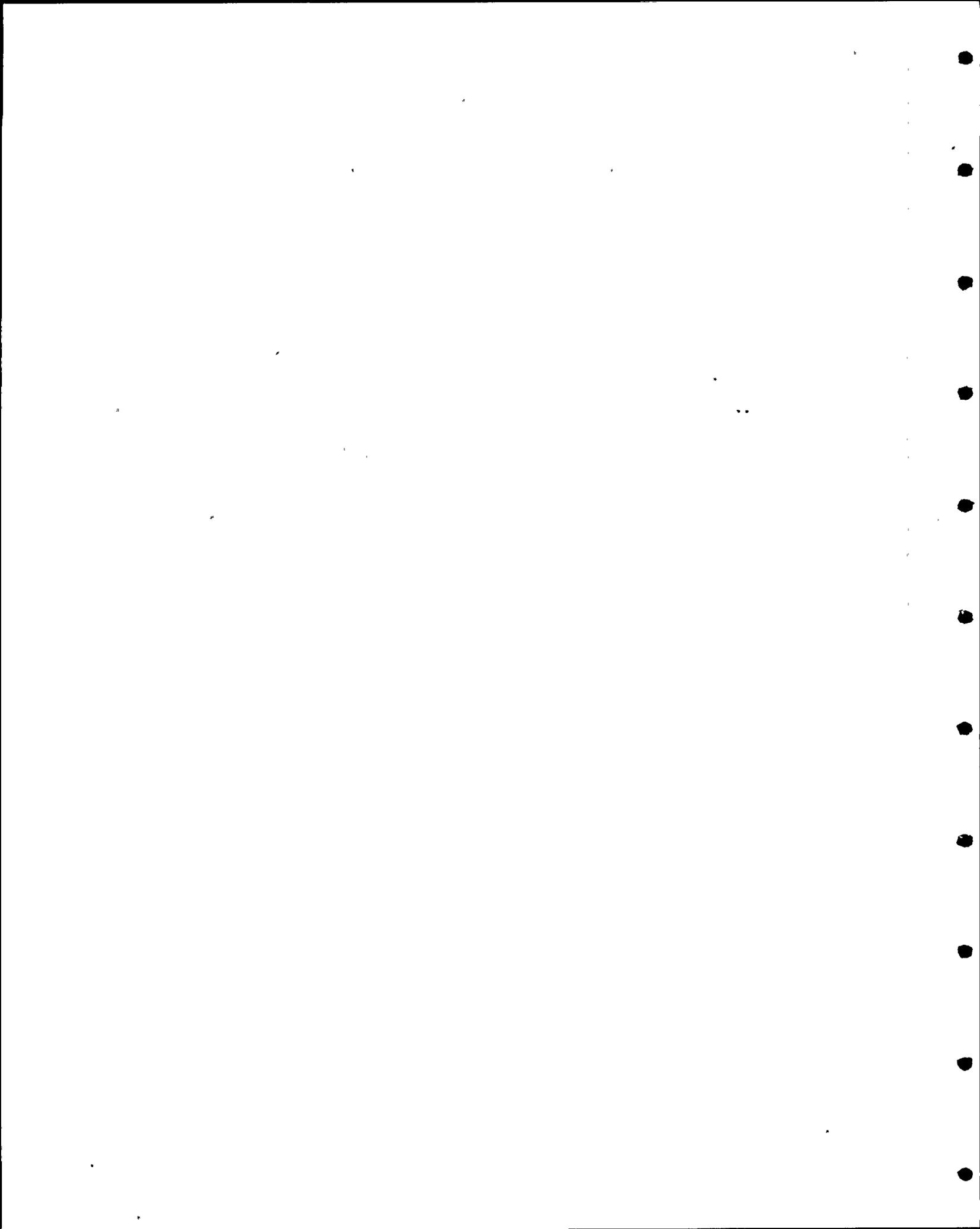


TABLE 2

BASIC RESPONSIBILITIES OF PRINCIPAL MEMBERS OF
CORPORATE EMERGENCY RESPONSE ORGANIZATION

A. Corporate Emergency Coordinator

The Corporate Emergency Response Organization is under the direction of the Corporate Emergency Coordinator. In this role, the Corporate Emergency Coordinator interfaces with top company executives and the Recovery Manager to provide company policy decisions in a timely manner and ensure that all company resources are available to the Recovery Manager. This position will normally be assumed by the Vice President, Nuclear Power Generation. The Corporate Emergency Coordinator is headquartered at the General Office.

B. Recovery Manager

The Recovery Manager is responsible for the technical direction and control of the integrated emergency response effort. In this role, he is responsible for the direction of all offsite company activities including those activities which originate from the General Office. Additionally, he coordinates all offsite activities with onsite activities which are under the direction of the Site Emergency Coordinator. This position will normally be assumed by the Manager of the Department of Nuclear Plant Operations. His emergency headquarters is the Offsite Recovery Center in the vicinity of the site.

C. Corporate Technical and Logistical Coordinator

The Corporate Technical and Logistical Coordinator is responsible for coordinating all of the technical and logistical activities in the General Office Emergency Organization, including those activities which provide support services requested by the Recovery Manager. In effect, he is the person the local people call to obtain corporate resources. While the Recovery Manager is in transit to the site, the Technical and Logistical Coordinator assumes the position of Recovery Manager. This position will normally be assumed by the Manager of Nuclear Projects.

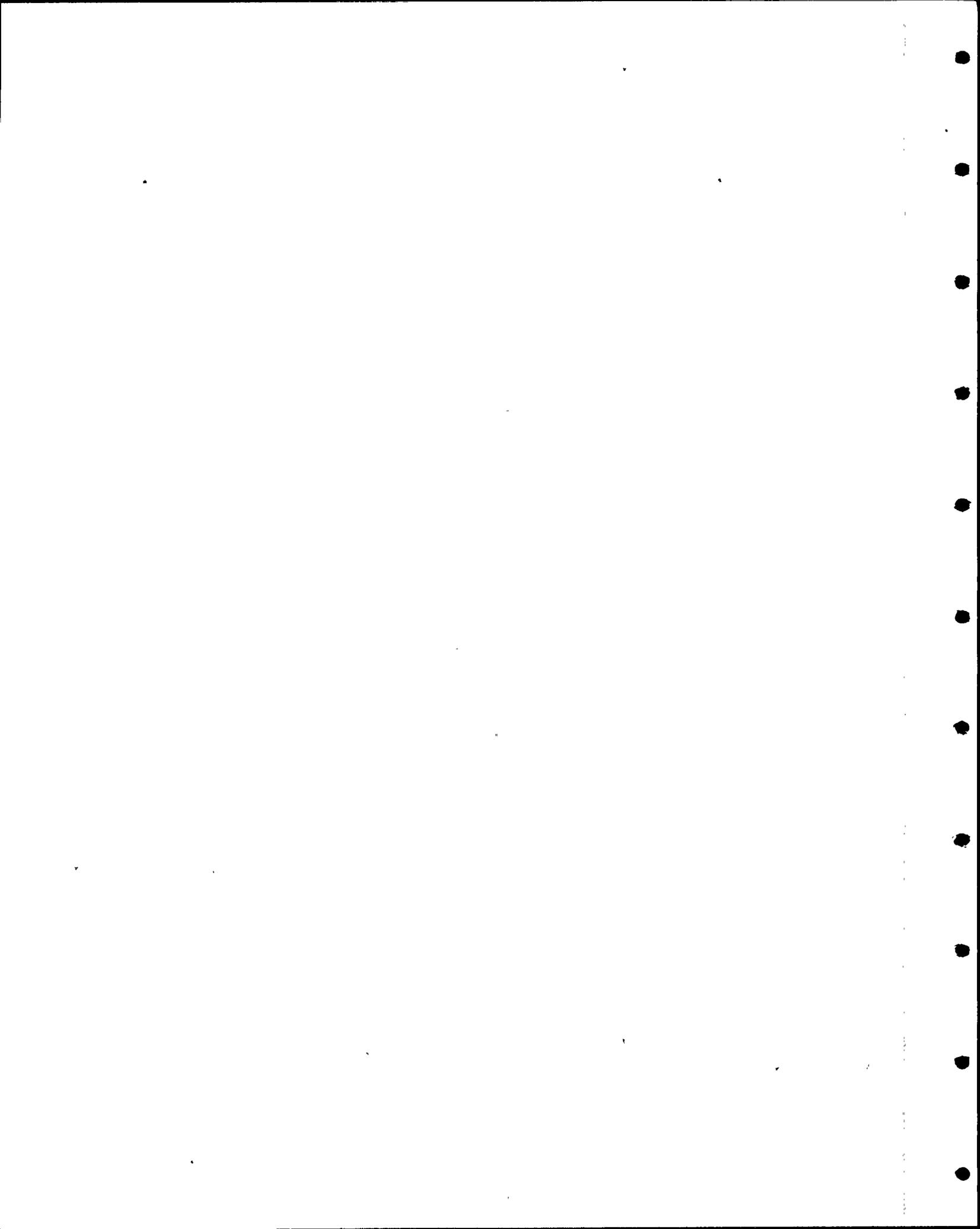


TABLE 2 (Continued)

D. Offsite Recovery Center Organization

The Offsite Recovery Center Organization, shown in Figure 3, is a management team under the direction of the Recovery Manager which is dispatched from the General Offices to manage the emergency response effort. One member of the Offsite Recovery Center Organization, the Advisor to the County Emergency Organization, is a member of the plant staff who initially activates the Offsite Recovery Center and establishes lines of communication between the site and local government officials. A second member of the plant staff, at least for the near term, is the Technical Advisor to the Public Information Recovery Manager, who assists in the preparation of news releases. Other key members of the Offsite Recovery Organization who report directly to the Recovery Manager include:

1. Operations and Analytical Recovery Manager

The Operations and Analytical Recovery Manager is responsible for the overall coordination of analytical and operations recovery efforts. He will initially coordinate the accident analysis work done by site, General Office, NSSS supplier, government agency personnel and industry experts and will provide direction in the recovery actions to be taken. He will work with the Emergency Evaluations Coordinator located in the Technical Support Center. This position will normally be assumed by the Supervising Nuclear Generation Engineer responsible for nuclear operations.

2. Engineering and Logistics Recovery Manager

The Engineering and Logistics Recovery Manager will coordinate and direct all requests for Engineering and Logistical assistance from the Site Emergency and/or Offsite Recovery Center Organizations to the General Office Emergency Organization. This position will normally be assumed by an engineer from the Nuclear Projects Department.

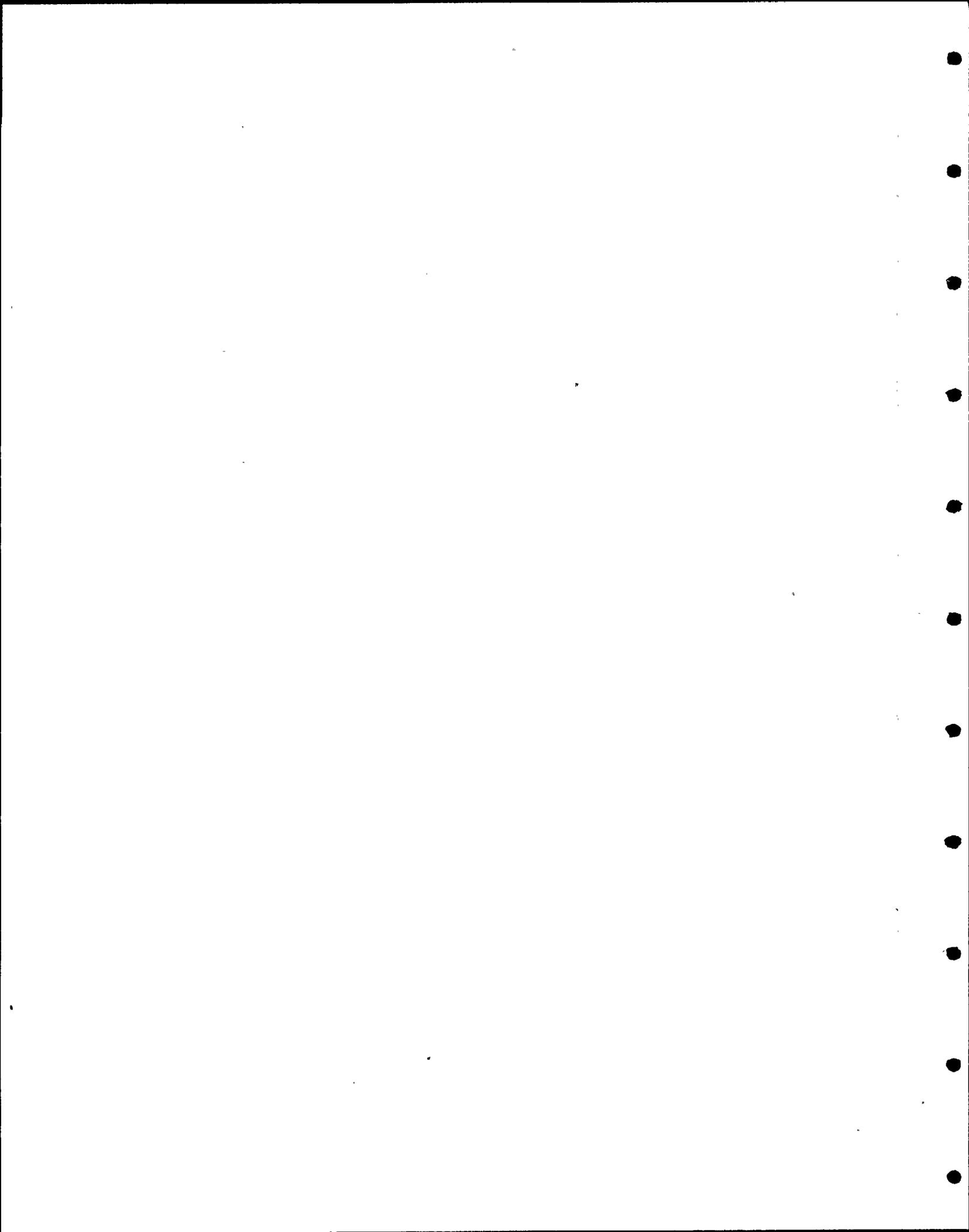


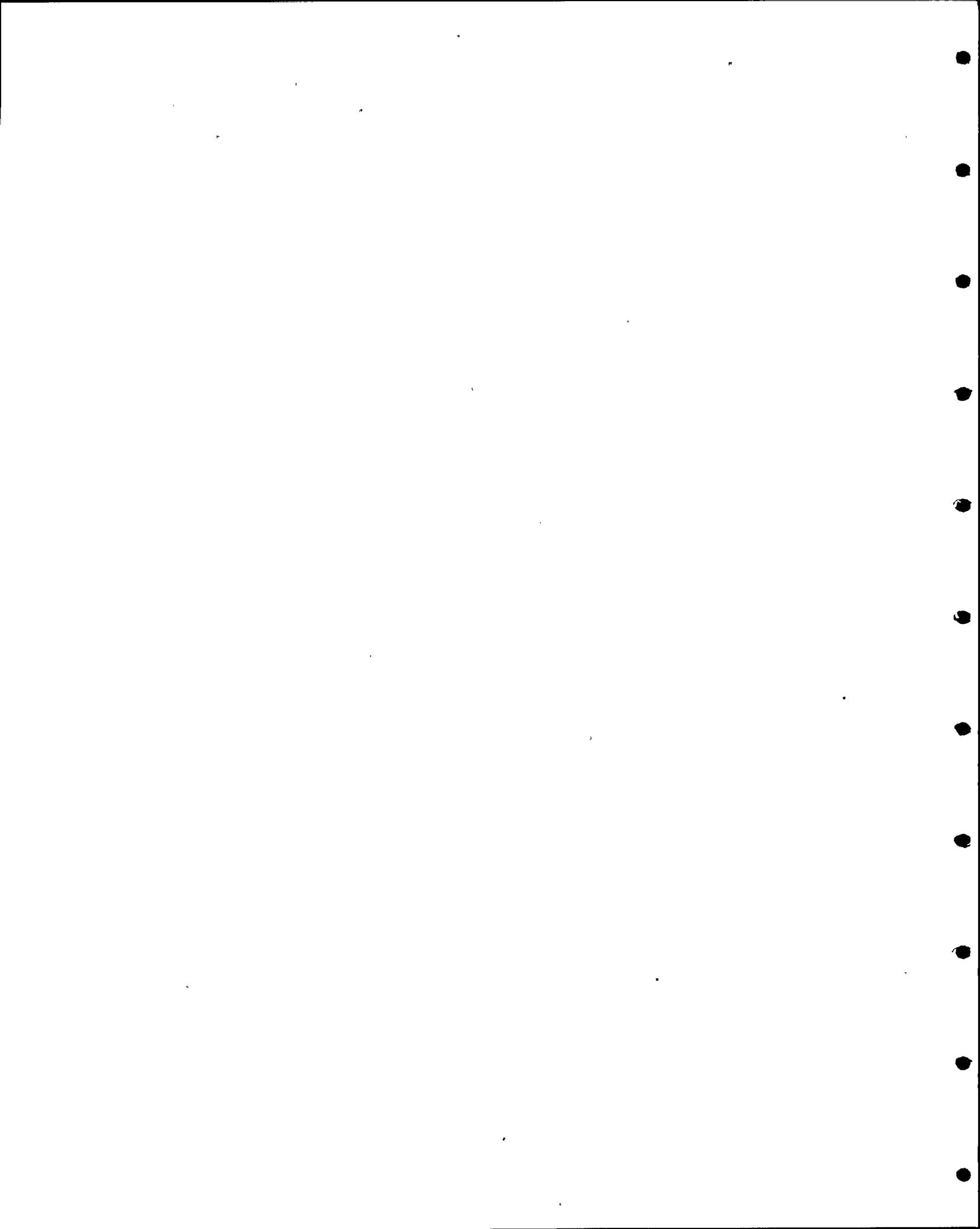
TABLE 2 (Continued)

3. Radiological Emergency Recovery Manager

The Radiological Emergency Recovery Manager is responsible for coordinating and directing all offsite radiological monitoring and sampling programs. In addition, he will coordinate the onsite with the offsite monitoring programs to provide anticipated release rates and projected dose rates. He will interface with the Emergency Radiological Advisor onsite, the radiological monitoring teams, laboratory personnel, and regional utility radiological support personnel. He will assist the Recovery Manager in accident assessment and advise the Recovery Manager on radiological health matters. This position will normally be assumed by the Supervising Nuclear Generation Engineer responsible for personnel and environmental safety.

4. Public Information Recovery Manager

The Public Information Recovery Manager is responsible for formulating all company news releases concerning the emergency condition. He is responsible for coordinating news releases with county and Corporate General Office personnel. Additionally, he will act as a Company spokesman for news releases made at the Media Briefing Hall. He will interface with the Public Relations Coordinator in the General Office, the County Public Information Officer, and government agency public information offices. This position will normally be assumed on an interim basis by the senior Public Information Representative assigned to the San Luis Obispo area, a.



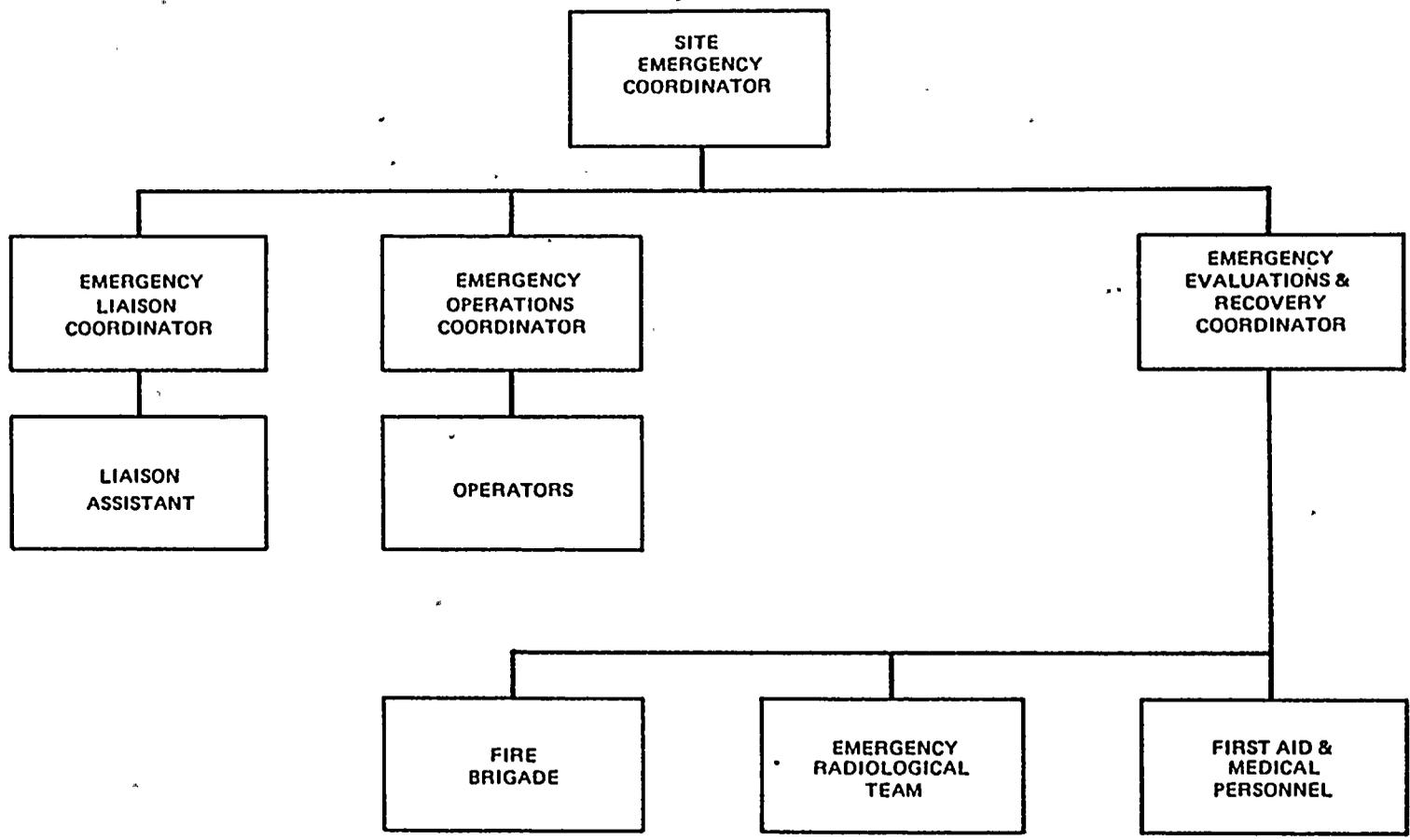
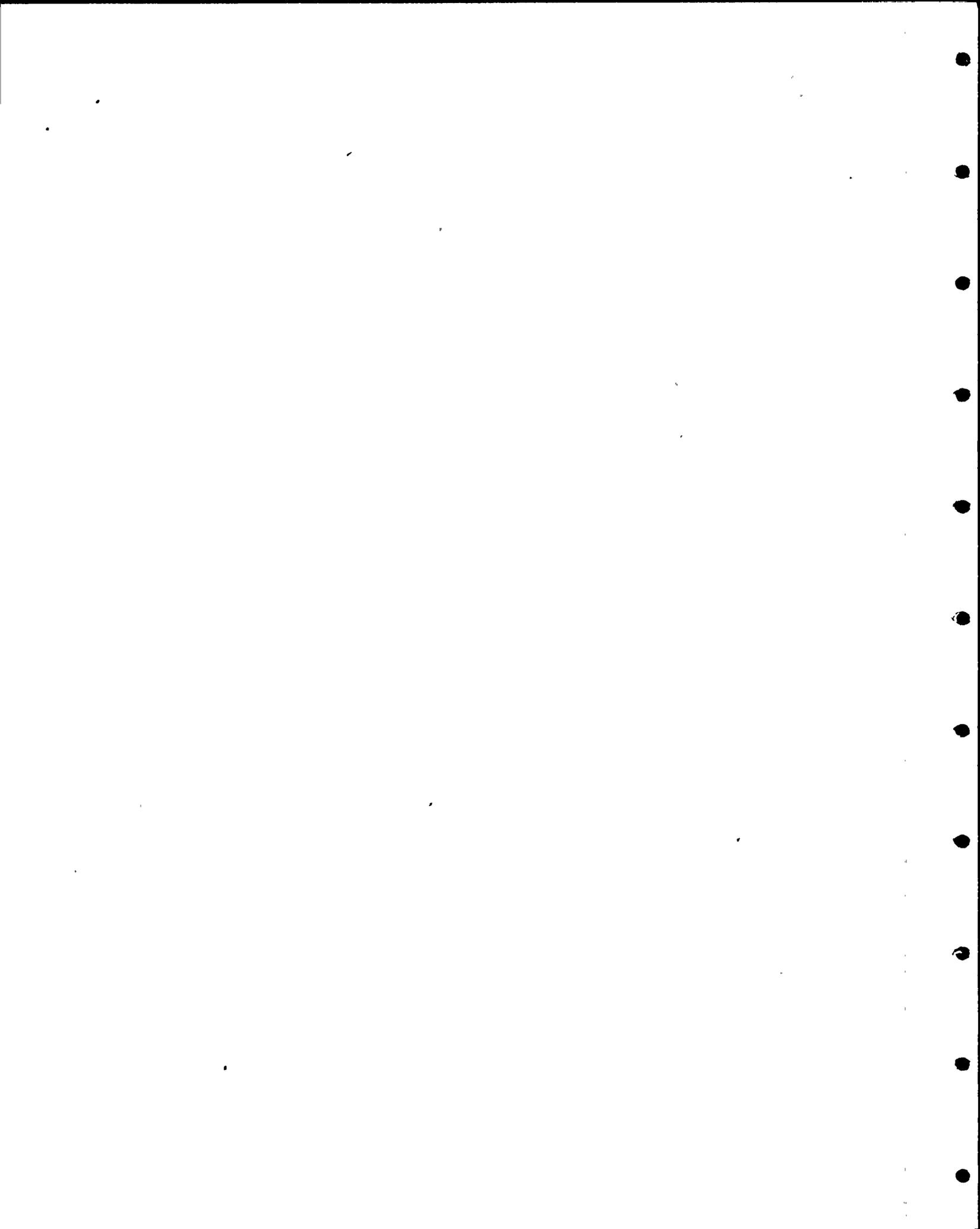


Figure 1
INTERIM ONSITE EMERGENCY ORGANIZATION



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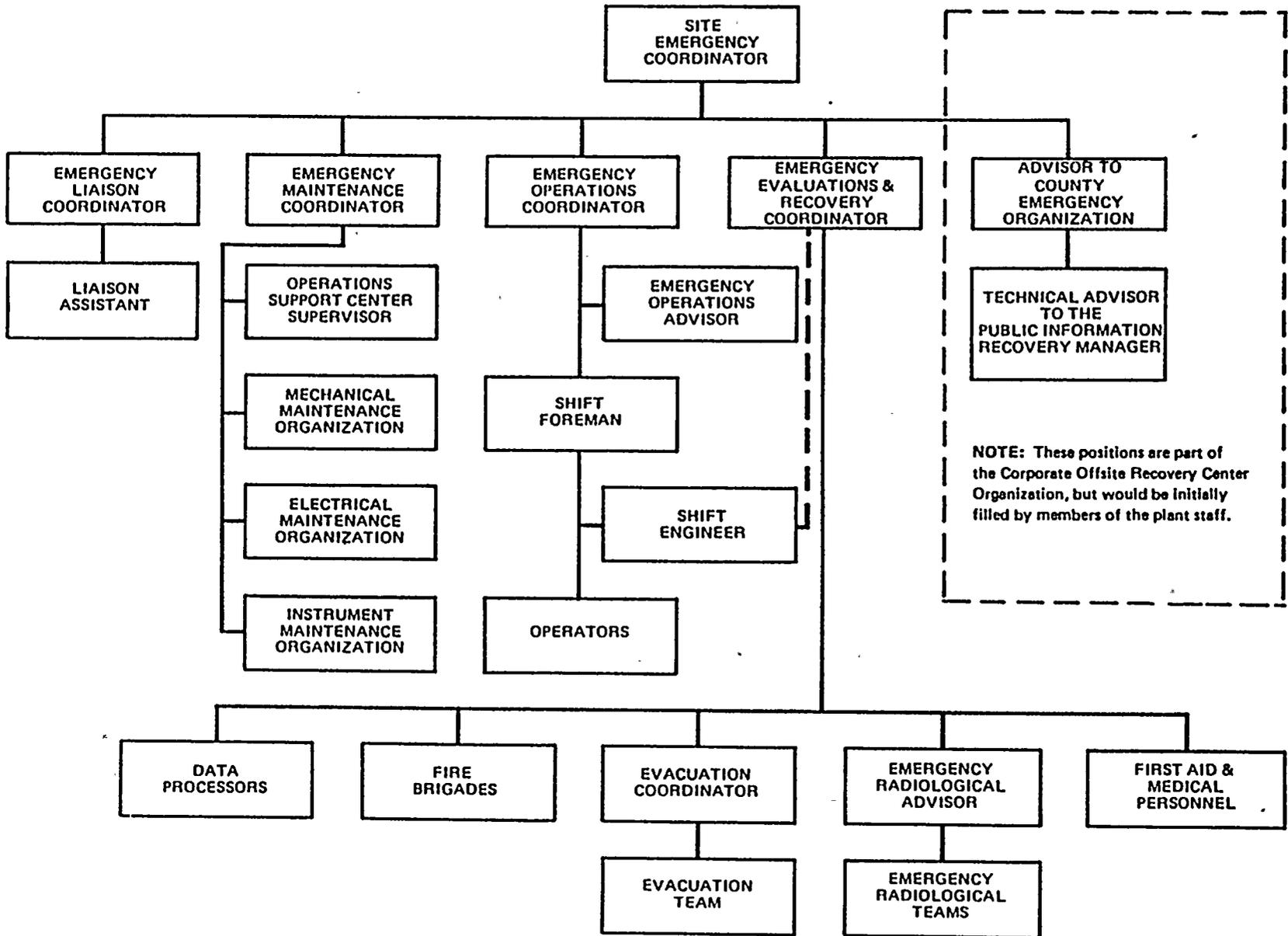
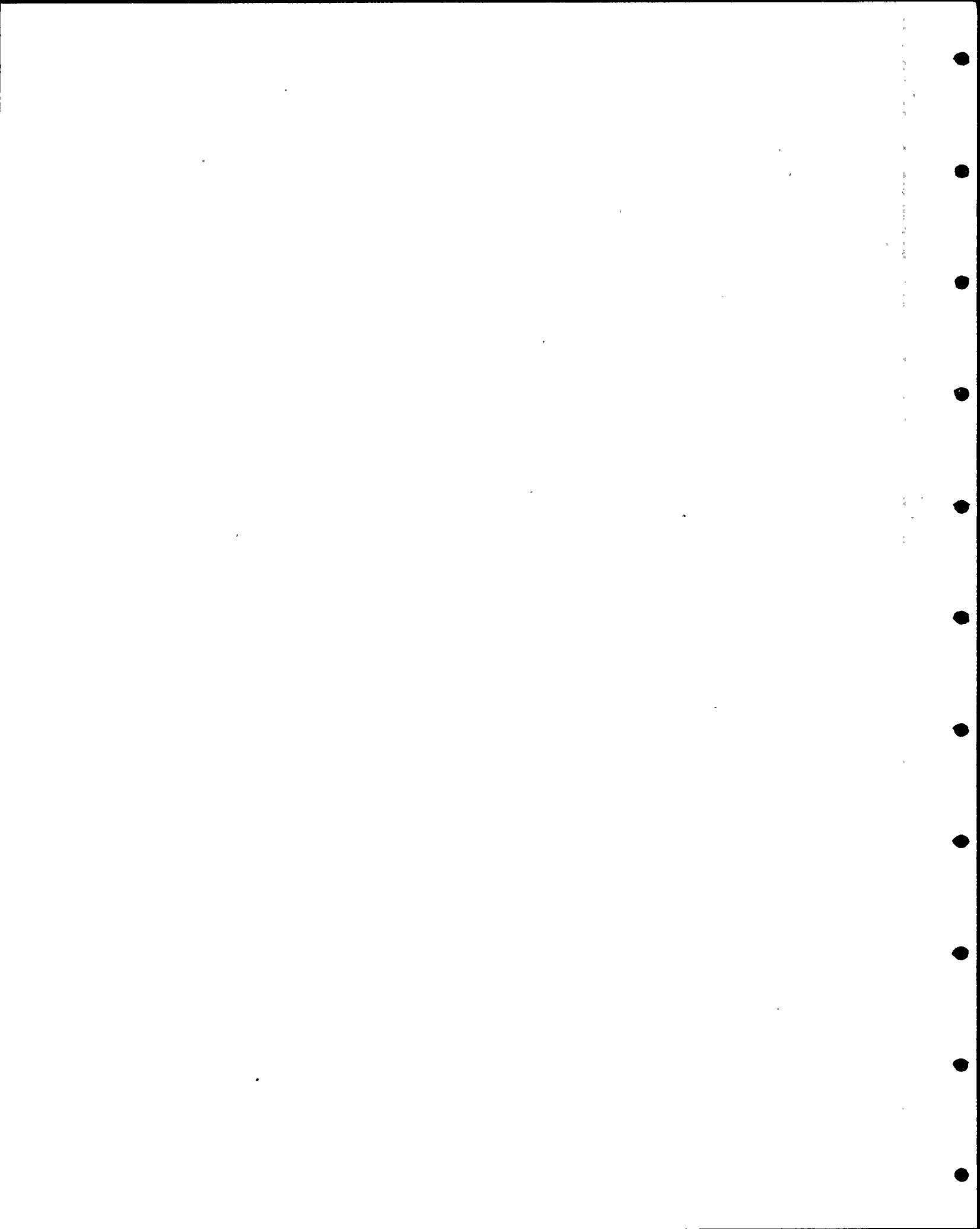
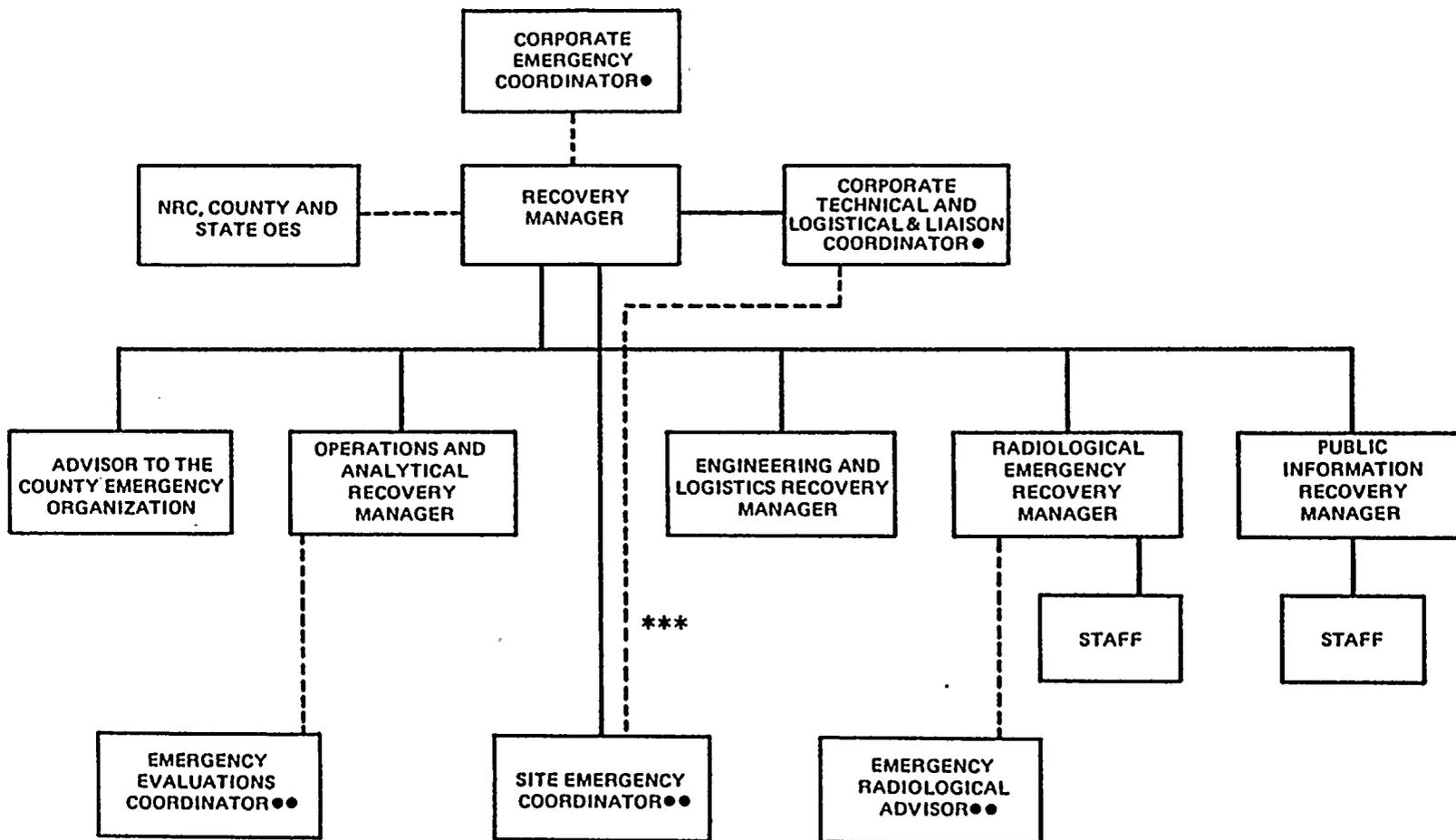


Figure 2
 ONSITE EMERGENCY ORGANIZATION
 (LONG-TERM)





— Command
 - - - - - Communication

- Located at Corporate Headquarters
- Located at Onsite Technical Support Center
- *** Interim reporting path while Recovery Manager is in transit to site

Figure 3
 CORPORATE EMERGENCY RESPONSE ORGANIZATION
 (OFFSITE RECOVERY CENTER ORGANIZATION)

