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50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
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HOVEY,R.J. Florida Power & Light Co.
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SUBJECT: Forwards descriptions of changes to Turkey Point REP &
0-EPIP-20101

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OCT 2 1996
L-96-242
10 CFR 50.54(q)
10 CFR 50, Appendix E

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

Re: Turkey Point Units 3 and 4
Docket Nos. 50-250 and 50-251
Radiological Emergency Plan - Revision 31; 0-EPIP-20101 - Original Issue

Florida Power and Light Company (FPL) has issued Revision 31 to the Turkey Point Radiological Emergency Plan, and has determined that the revision does not decrease the effectiveness of the plan. The changes are based on achieving consistency between the Turkey Point and St. Lucie Emergency Plans.

FPL has also upgraded the format of (old) EPIP-20101, now renumbered 0-EPIP-20101 (as part of our ongoing plan to upgrade all Emergency Plan Implementing Procedures), and has determined that the revision does not decrease the effectiveness of the plan.

Attached is a description of the changes to the Turkey Point Radiological Emergency Plan and the changes to 0-EPIP-20101.

Pursuant to 10 CFR 50.54 (q), enclosed are one copy each of the plan and the EPIP.

Should there be any questions, please contact us.

Very truly yours,

Robert J. Hovey
Vice President
Turkey Point Plant

CLM

9610090297 961002
PDR ADCK 05000250
F PDR

attachment
enclosures

cc: Stewart D. Ebner, Regional Administrator, Region II, USNRC (2 copies)
T. P. Johnson, Senior Resident Inspector, USNRC, Turkey Point Plant (no enclosure)

660450

TURKEY POINT RADIOLOGICAL EMERGENCY PLAN SUMMARY OF CHANGES IN REVISION 31

The responsibility of notifying the Recovery Manager (RM) and the Nuclear Division Duty Officer (NDDO) of an event has been removed from the Emergency Coordinator. The Duty Call Supervisor will be responsible for notifying the RM and NDDO.

The responsibility for establishing policy and expending funds for emergency response activities has been removed from the Emergency Control Officer (ECO). The ECO has the added responsibility of official spokesperson for the nuclear division.

The RM has the authority for establishing policy and expending funds necessary to cope with an emergency situation.

If the Control Room Emergency Coordinator (EC) should become incapacitated, the Reactor Control Operators on-shift will no longer be listed as fourth successor. Third successor, Senior Reactor Operator (SRO), has been clarified to reflect that SRO license must be active.

Reference to Emergency Response Team has been replaced by Emergency Response Organization. Immediate Response Organization will be referred to as On-shift Response Organization.

The Emergency Response Organization Chart has been modified. The Emergency Coordinator, Recovery Manager and Emergency Control Officer are on the same level with dotted lines between ECO and RM. This reflects the highest level authority within the different facilities.

Section 7 of the Emergency Classification Table, Uncontrolled Effluent Release, has been updated to reference the Offsite Dose Calculation Manual.

Section 13 of the Emergency Classification Table, Hazards to Station Personnel and Equipment, has been corrected. Information from the Alert column which was copied over into Site Area Emergency column has been replaced with correct text (this was not reflected in EPIP-20101).

The RM/EC approval line has been added to the State of Florida Notification Message Form.

Clarifications/enhancements were made to existing paragraphs, figures and tables. Miscellaneous title changes have also been incorporated into this revision.

SUMMARY OF CHANGES TO 0-EPIP-20101

The procedure has been reformatted:

Table 1, Emergency Classification Table, is now Enclosure 1 and is located at the back of the procedure.

Table 2, Protective Action Recommendations, is now Attachment 3 and is located at the back of the procedure.

The State of Florida Notification Message Form and Event Notification Worksheet (NRC Form 361) have been relocated to the back of the procedure as attachments and appear only once in the document.

Forms used for State Notification, NRC notification and PAR's have been established as site forms and will be stocked in the Control Room, Simulator, TSC, EOF and PCC form files.

Enclosure 2, Guidelines for Emergency Coordinator when Transferring Responsibilities, has been added to assist with turnover of Command and Control.

Emergency Classification Table, Section 7, Uncontrolled Effluent Release, has been revised to reference the ODCM in place of Technical Specifications.

The NDDO/Recovery Manager have been removed from immediate and follow-up notification via the Emergency Coordinator and will be notified via the Duty Call Supervisor.

SUPERSEDED per Rev. PROCEDURE
dd 10/18/96 9610090277

FLORIDA POWER AND LIGHT COMPANY
TURKEY POINT UNITS 3 AND 4
EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101
AUGUST 1, 1996

50-750

1.0 Title:

DUTIES OF EMERGENCY COORDINATOR

2.0 Approval and List of Effective Pages:

2.1 Approval:

Change dated: 8/1/96 Reviewed by Plant Nuclear Safety Committee: 96-142
and Revision Approval Date: 8/1/96
Periodic Review Due: 12/28/99 Implementation Date: 8/1/96

2.2 List of Effective Pages:

<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>
1	08/01/96	26	12/29/94	51	12/29/94	76	08/01/96
2	12/29/94	27	12/29/94	52	08/01/96	77	08/01/96
3	12/29/94	28	12/29/94	53	12/29/94	78	12/29/94
4	12/29/94	29	12/29/94	54	08/01/96	79	12/29/94
5	08/01/96	30	12/29/94	55	08/01/96	80	12/29/94
6	12/29/94	31	12/29/94	56	12/29/94	81	08/01/96
7	12/29/94	32	12/29/94	57	12/29/94	82	08/01/96
8	12/29/94	33	12/29/94	58	12/29/94	83	12/29/94
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16	12/29/94	41	08/01/96	66	12/29/94	91	08/01/96
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21	12/29/94	46	08/01/96	71	08/01/96	96	08/01/96
22	12/29/94	47	12/29/94	72	12/29/94		
23	12/29/94	48	12/29/94	73	12/29/94		
24	12/29/94	49	12/29/94	74	12/29/94		
25	12/29/94	50	12/29/94	75	08/01/96		

RTSs 86-1584, 87-0332, 87-1665, 87-2051, 88-0761, 89-0622, 89-1733, 89-1793, 89-3433, 90-0402, 90-2294, 90-2941, 90-2952, 91-0483, 91-1226, 91-2427, 91-2117, 92-0109, 91-3106, 93-0501, 93-0275, 93-1700P, 94-0329, 94-0773P, 94-1602, 96-0772P

OTSC 4660

PC/M 92-004

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EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 2
DUTIES OF EMERGENCY COORDINATOR

3.0 Scope:

3.1 Purpose:

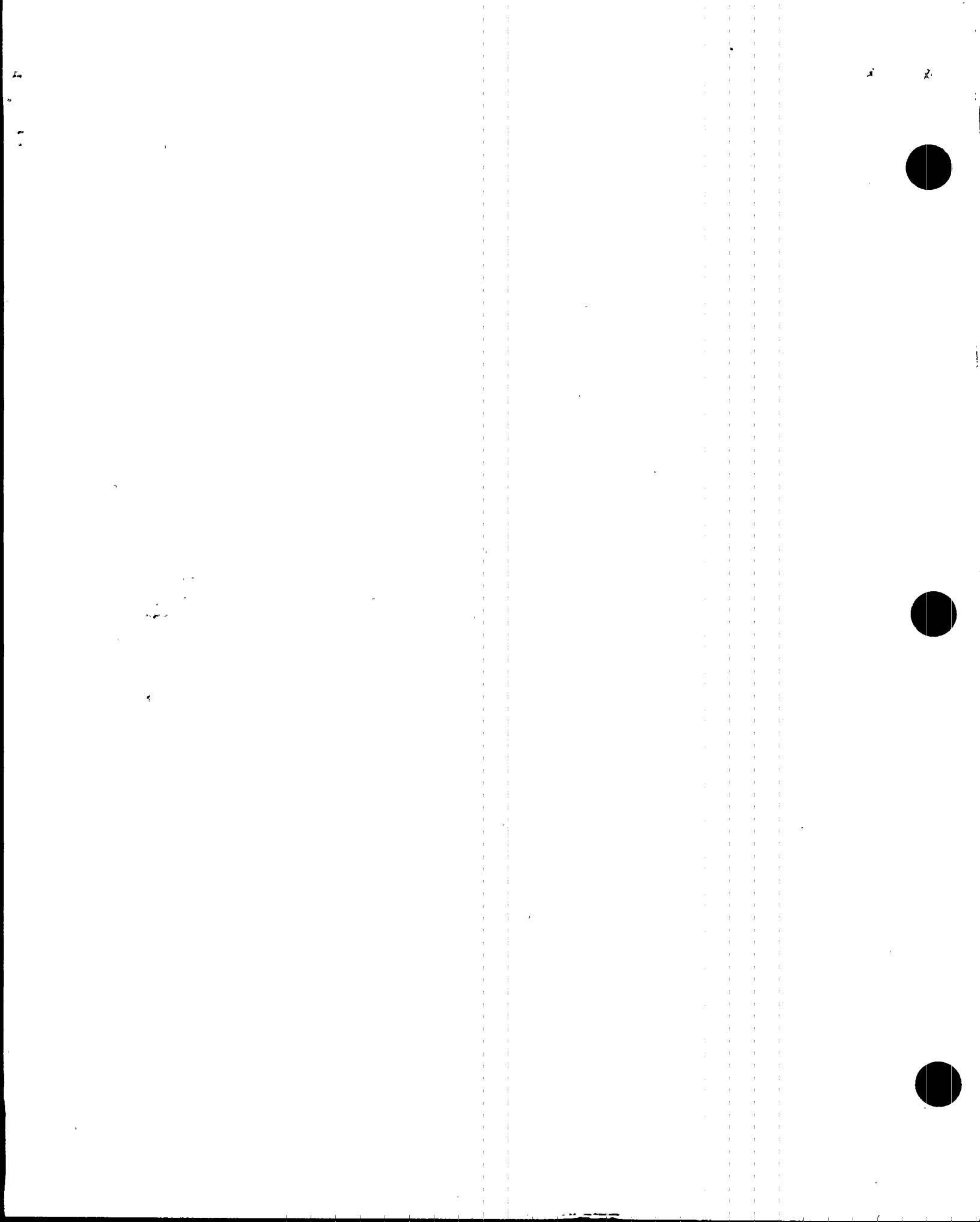
- 3.1.1 This procedure provides the guidelines to be followed by the Emergency Coordinator when an emergency occurs that requires initiation of the Emergency Plans..

3.2 Discussion:

- 3.2.1 This procedure provides guidance for actions that the Emergency Coordinator will take in a plant emergency.
- 3.2.2 For planned evolutions such as safeguards, this procedure does not apply. However, if a deviation from the planned evolution (i.e., any unplanned evolution) occurs, this procedure should be consulted.
- 3.2.3 The Nuclear Plant Supervisor becomes the Emergency Coordinator upon declaration of an emergency and, as such, directs the On Site Emergency Organization actions to bring the emergency under control. A member of the plant management staff may later assume the role of Emergency Coordinator when he/she reaches the Control Room or TSC and becomes familiar with the emergency. The Nuclear Plant Supervisor will then concentrate on control of the units.
- 3.2.4 During an emergency of Alert or higher, the Emergency Coordinator should confer with the TSC Security Supervisor concerning the impact of the emergency on plant security. During an emergency of Site Area Emergency or higher, and dependent on the degree of airborne release, the TSC Security Supervisor may recommend a complete or partial suspension of safeguards which may include (but is not limited to) any of the following:

NOTE: Vital area doors unlocked by the computer will relock automatically after they are closed.

1. Unlocking vital area doors through the security computer.
 2. Suspension of designated security patrols or activities.
 3. Maintenance of Protected Area access control only (suspension of all field patrols).
 4. A partial evacuation of on-duty Security personnel.
 5. Closing one or both Alarm/Communications Stations (CAS/SAS).
 6. Complete suspension of site security safeguards.
- 3.2.5 The titles Nuclear Energy Duty Officer, and Nuclear Division Duty Officer are used interchangeably.



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DUTIES OF EMERGENCY COORDINATOR

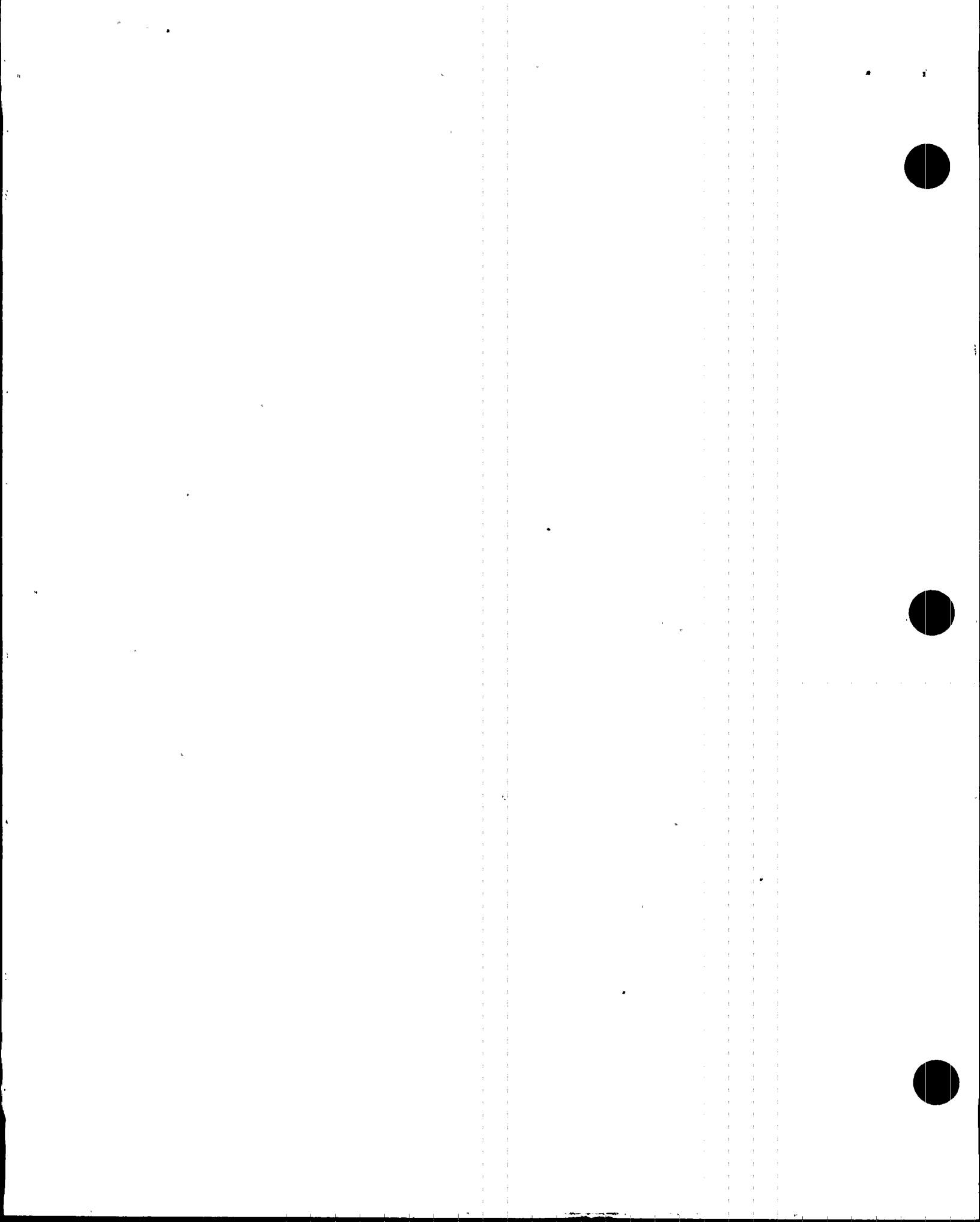
- 3.2.6 Classifying Simultaneous Emergencies: Emergency classifications based on simultaneously occurring events affecting each unit independently (e.g., LOCA on Unit 3 and Tube Rupture on Unit 4) shall be made based on the most severe event, and reported as the classification for the site. With multiple events occurring, only one emergency classification shall be made.

One of the primary reasons for the declaration and notification process is to prompt local, state, and federal government agencies to initiate actions to assure the health and safety of the public. The government agency response is based on an event affecting either unit at a multiple unit site, such as PTN. Therefore, the government agency's actions will address the most severe classification issued by the site, and having multiple classifications would only confuse the response. Examples regarding this issue are provided below.

1. If Unit 3 is in a classified event (an Alert for example), and another event of the same or lesser classification (e.g., an Unusual Event or Alert) occurs on Unit 3 or Unit 4, then a new event classification should NOT be made, and the event notification should be issued as an update at the earliest practical time.
2. If Unit 3 is in a classified event (an Alert for example), and another event of higher classification (Site Area or General Emergency) occurs on either Unit 3 or Unit 4, then the new classification should be promptly issued to the State and NRC within the regulatory time requirements.
3. The State of Florida Notification Message Form should indicate the unit for which the event is declared. If the event is common to both units, Unit 3 should be marked as the affected unit.

3.3 Authority:

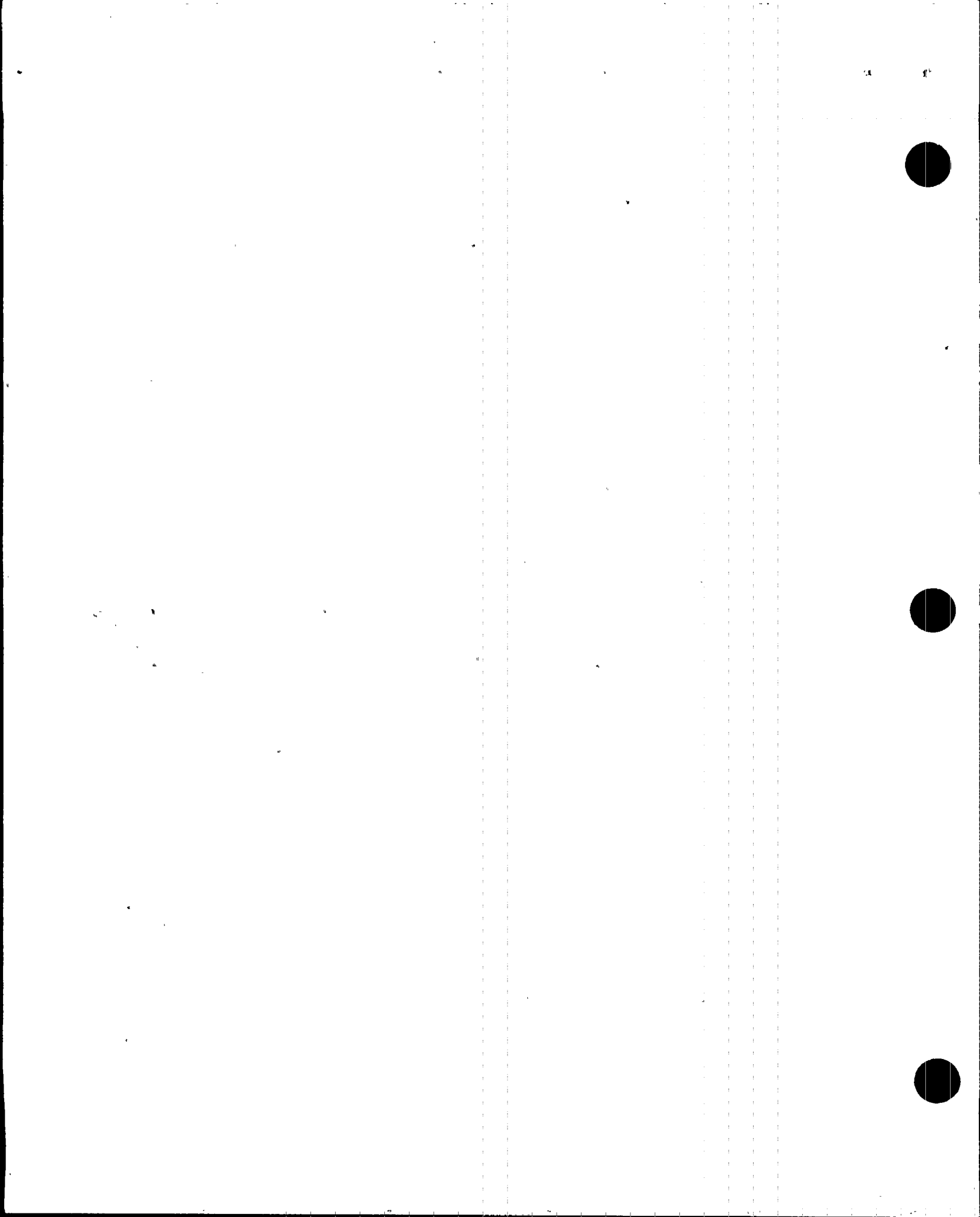
3.3.1 Turkey Point Plant Radiological Emergency Plan



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 4
DUTIES OF EMERGENCY COORDINATOR

3.4 Definitions - for Emergency Action Level Classification and Radiological Emergency Planning, the following definitions apply:

- 3.4.1 Hot Ring Down Telephone (HRD) - the dedicated link between State/Local agencies and Turkey Point.
- 3.4.2 Emergency Notification System (ENS) - the circuit tying the NRC and Turkey Point.
- 3.4.3 Local Government Radio (LGR) - the communications network used as a backup to the HRD.
- 3.4.4 State of Florida Notification Message Form - the form used to initiate, update, and terminate emergency notifications to State/Local agencies.
- 3.4.5 National Warning System (NAWAS) - the communications network used as a backup when the HRD, and commercial phones are not available.
- 3.4.6 Power Block - structures comprising all permanent nuclear, power generation, and cooling structures, systems, and components within the Protected Area; and permanent Safety Related or Quality Related utilities (e.g. air, water, and and electric) both inside and outside the Protected Area.
- 3.4.7 Emergency - Any off-normal event or condition which is classified into one of the four event categories in Table 1 of this procedure.
- 3.4.8 Onsite - within the Protected Area.
- 3.4.9 Offsite Power - power supplied from the grid through the Startup or Auxiliary Transformers (backfeed), or power supplied by the Auxiliary Transformer during normal operation.
- 3.4.10 Unrestricted Area - as defined in Technical Specifications.
- 3.4.11 Onsite Power - Power supplied by any of the four emergency diesel generators.
- 3.4.12 Owner Controlled Area - That portion of the FPL property surrounding and including the Turkey Point Plant which is subject to limited access and control as deemed appropriate by FPL.
- 3.4.13 Release - During any declared emergency any effluent monitor increase of approximately 10 times/one decade above pre-transient values, or Health Physics detected airborne radioactivity levels in excess of 25 percent DAC outside of plant buildings due to failure of equipment directly associated with the declared plant emergency.
- 3.4.14 Site Boundary - land areas within a one mile radius of the affected unit.
- 3.4.15 Emergency Response Directory (ERD) - the directory containing names and phone numbers of Emergency Response Organization personnel.



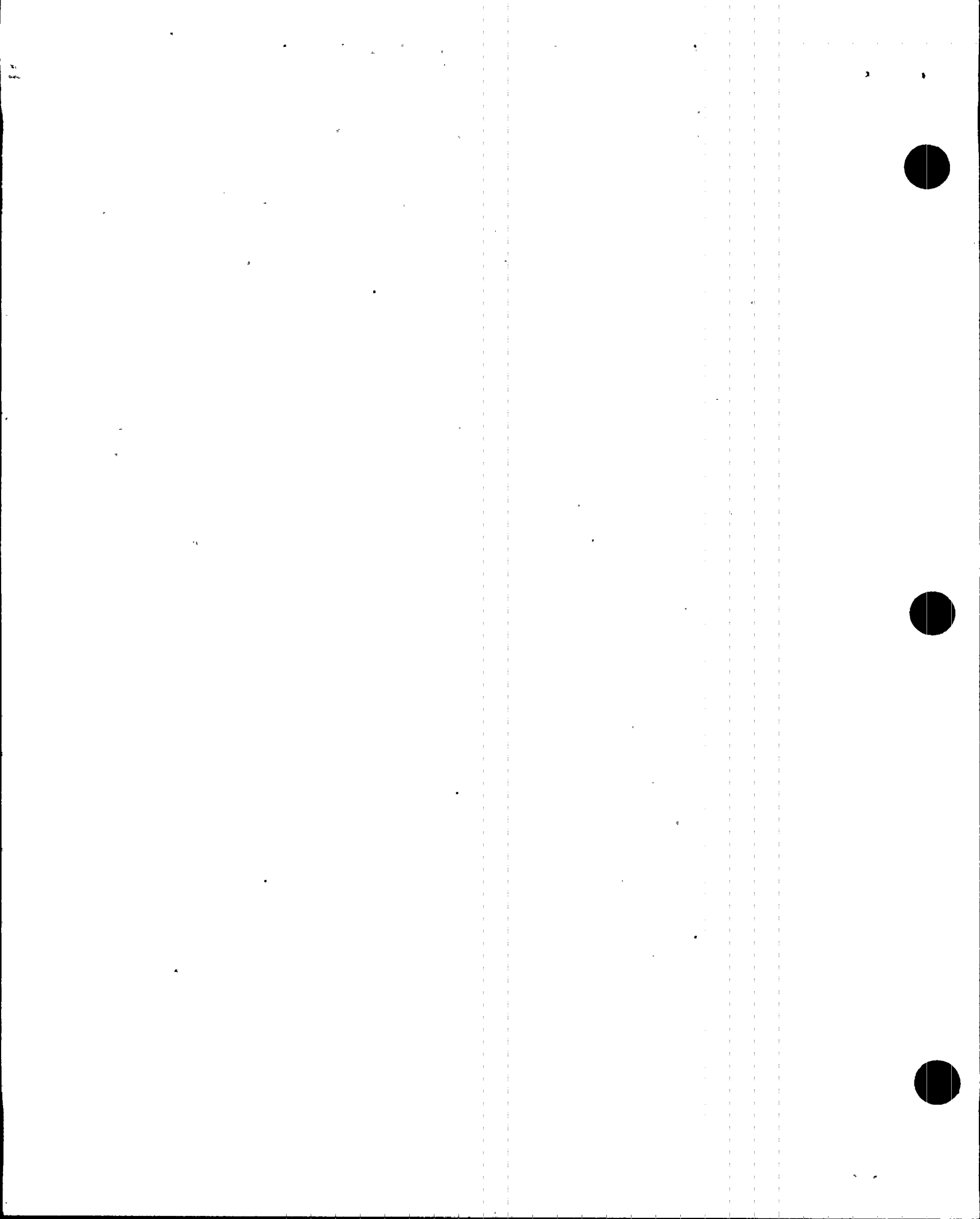
EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 5
DUTIES OF EMERGENCY COORDINATOR

4.0 Precautions:

- 4.1 The Emergency Coordinator (EC) can delegate his responsibilities to his subordinates with the exception of classification, the decision to notify state and local authorities and the issuing of Protective Action Recommendations. The actual notification can be done by the ECs designee. Notification to offsite agencies and PARs become the responsibility of the Recovery Manager when the EOF is manned and operational. The EC documents his decision to notify state and local authorities and his concurrence with PARs by initialing the State of Florida Notification Message Form.
- 4.2 During exercises, drills or tests, ALL MESSAGES shall begin and end with "THIS IS A DRILL".
- 4.3 In any case where a GENERAL EMERGENCY has been declared, the minimum protective action recommendation shall be: "Shelter all people within a 2 mile radius from the plant and 5 miles in the downwind sectors".
- 4.4 Plant conditions, plume dose projection calculations, (from EPIP-20126, Offsite Dose Calculations), and offsite monitoring results should be evaluated when making Protective Action Recommendations. If significant discrepancies exist between field monitoring results and plume dose projection calculations, an evaluation should be made, and the most conservative approach used in the determination of Protective Action Recommendations.
- 4.5 If a condition which meets the Unusual Event or Alert criteria of the Emergency Classification Tables is identified and subsequently rapidly resolved, the emergency classification shall be declared and immediately terminated. All required notifications shall be completed. Activation of the Onsite Emergency Response Facilities is not required.
- 4.6 If a condition which meets the Site Area Emergency or General Emergency criteria of the Emergency Classification Tables is identified and subsequently rapidly resolved, the emergency shall be declared and all notifications completed. De-escalation from the Site Area Emergency and General Emergency classifications may only be authorized by the RM.

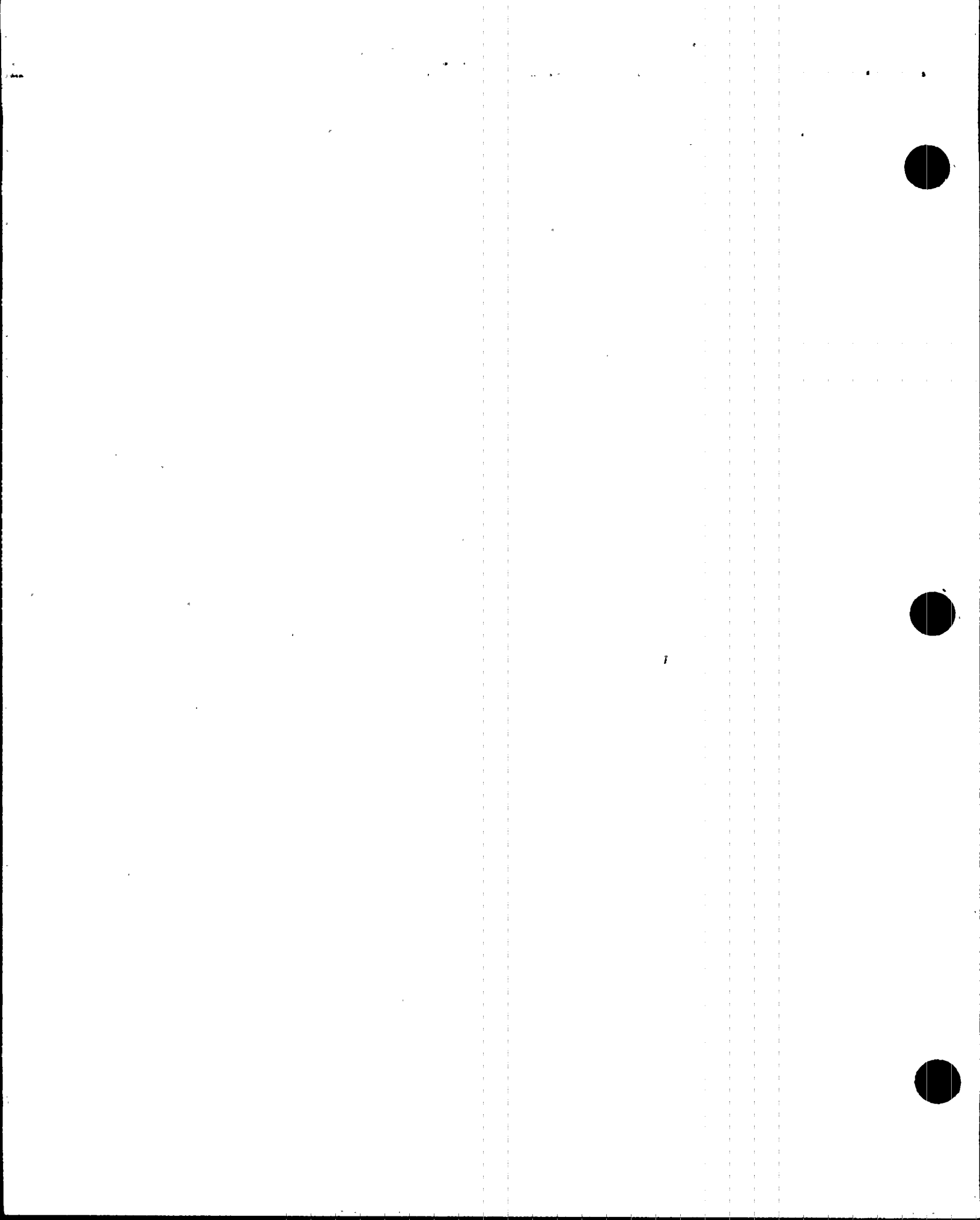
DUTIES OF EMERGENCY COORDINATOR

- 4.7 Protective Action Recommendations based upon offsite dose calculations shall be determined by comparing projected offsite doses to the action levels in Table 2. If the period of exposure is expected to be less than two hours the doses should be projected for the expected duration of the exposure. For longer duration exposures, the offsite doses should be projected for two hours and PARS should be based upon the two hour projections.
- 4.8 The Emergency Coordinator responsibilities shall reside with the E.C. in the Control Room until they have been formally transferred to the E.C. in the TSC.
- 4.9 Emergency notification to State/Local agencies is required within 15 minutes of declaring an emergency.
- 4.10 Emergency notification to the NRC is required immediately following notification of State/Local agencies, but not later than 1 hour from the declaration of an emergency.
- 4.11 If during the notification process, it becomes necessary to upgrade the emergency classification,
- 4.11.1 ensure that the State Warning Point has been notified of the emergency declaration within 15 minutes of making the initial classification,
- 4.11.2 stop the current notification process and,
- 4.11.3 proceed to the steps corresponding to the new emergency classification, including notification of the new classification to the State Warning Point.
- 4.12 Plant Page Announcements
- 4.12.1 PA messages to site personnel do not have to be made verbatim; they are "example" messages only.
- 4.12.2 Announcements may NOT be made or may be modified as directed by the Emergency Coordinator, or his designee, if it is determined that such announcements may cause intruders to panic or make them aware of plant/security personnel responses in regard to security related events.
- 4.12.3 Important plant page announcements (such as changes in classification or plant status) should be made firmly, clearly, and distinctly so that the message can be heard throughout the plant.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 7
DUTIES OF EMERGENCY COORDINATOR

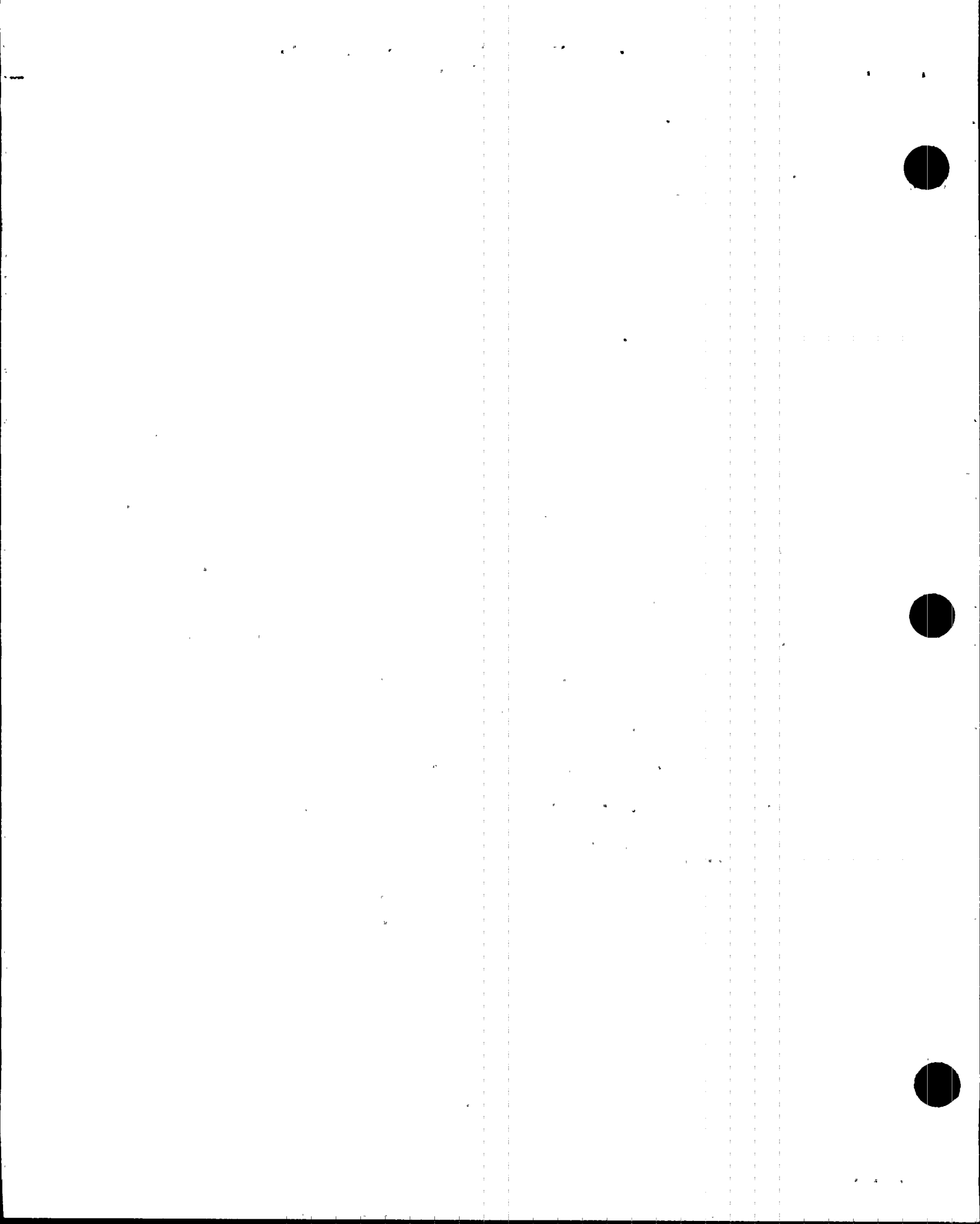
- 4.12.4 The Page Volume Boost feature should be used when making EMERGENCY ANNOUNCEMENTS from the Control Room. By pressing and holding the pushbutton on the console in the ANPS Workstation or on the RCOs desk, the Page System speakers will broadcast at maximum volume, and the blue, high intensity strobe lights will be activated. Release the pushbutton when the announcement is complete.
- 4.13 The Emergency Coordinator has the authority to waive individuals emergency response training requirements, as needed.
- 4.14 Procedural notification steps may be performed out of sequence in order to meet State of Florida and/or NRC notification time requirements.
- 4.15 Alternate commercial telephone numbers for State of Florida and NRC notification are listed in the Emergency Response Directory (ERD).
- 4.16 Collection of Release Rate Data shall not delay State of Florida and NRC notifications. If the data is not available, notification shall be made and followed up as soon as the information is available.
- 4.17 Evacuations and Emergency Response Facility (ERF) Activation
- 4.17.1 The Emergency Coordinator shall consider plant and radiological conditions as they relate to the emergency prior to ordering an evacuation or activation of ERF. As conditions warrant, the Emergency Coordinator may delay, postpone or make special requirements on the evacuation and/or ERF activation. Some examples of special circumstances are as follows:
1. Radiological conditions (puff releases) when large doses may be received during an evacuation.
 2. Security events when unknown hazards or dangers (i.e., armed intruders, bomb threats, etc.) are perceived.
 3. Plant conditions where additional personnel are necessary to put the plant in a safer configuration (i.e., equipment hatch open, primary system open for repair, etc.)
 4. Onsite hazards such as toxic gas, fires, or explosions where the movement of personnel would be placing them in additional risk:
 5. Risks to plant personnel due to the inability to use the evacuation route (construction, traffic accidents, etc.).
 6. Other similar events.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 8
DUTIES OF EMERGENCY COORDINATOR

4.17.2 The Emergency Coordinator should consider the emergency event prior to determining if special instructions for evacuation and/or ERF activation should be given.

1. If the emergency involves a radiological release or potential release, special instructions should consider:
 - a. duration of the release,
 - b. plant conditions,
 - c. meteorological conditions,
 - d. evacuation route availability, and
 - e. other information pertinent to the release.
2. If the emergency involves a security event which may threaten plant/emergency response personnel, special instructions should consider:
 - a. location of intruders,
 - b. bomb threat location, and
 - c. other information pertinent to the security threat.
3. If the emergency involves both radiological and security events, a combination of the above considerations should be used when developing special instructions.
4. Special instructions regarding evacuation and/or ERF activation should consider:
 - a. retention of additional essential repair personnel,
 - b. alternate evacuation/ERF activation routes/facilities,
 - c. in-place/onsite sheltering of non-essential personnel, and
 - d. use of security force personnel in directing evacuees/emergency response personnel to the appropriate routes and locations.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 9
DUTIES OF EMERGENCY COORDINATOR

5.0 Responsibilities:

5.1 The Nuclear Plant Supervisor (NPS) assumes the responsibilities of the Emergency Coordinator in the initial phases of a plant emergency.

If the Nuclear Plant Supervisor (NPS) is incapacitated, the Emergency Coordinator shall be (in order of succession):

5.1.1 Assistant Nuclear Plant Supervisor

5.1.2 Nuclear Watch Engineer

5.1.3 Any other member of the plant staff with an active Senior Reactor Operator license.

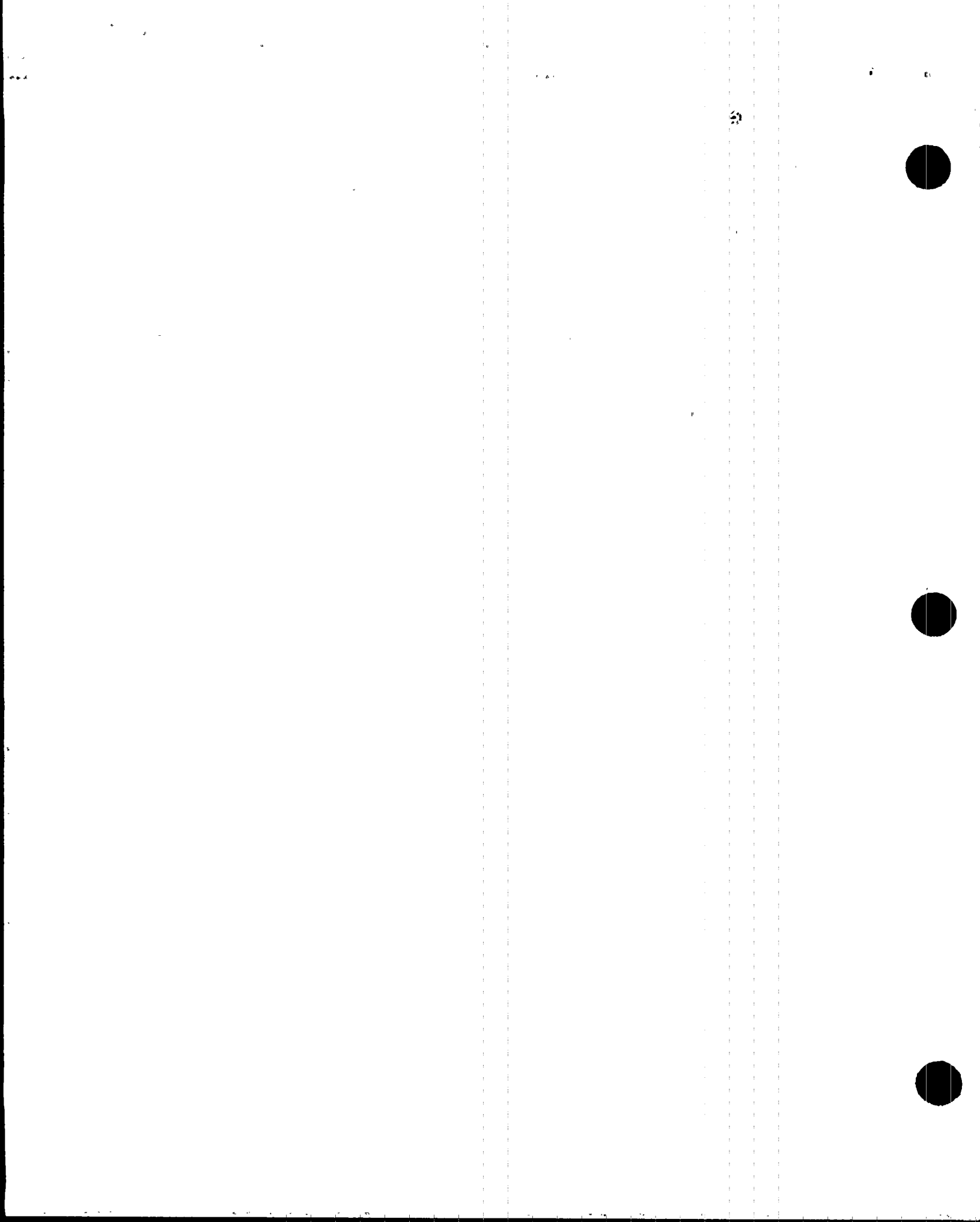
5.1.4 One of the Reactor Control Operators on shift.

5.2 A member of the Plant Management staff may later assume Emergency Coordinator (EC) duties when he/she reaches the Control Room or TSC and becomes familiar with the emergency. The NPS will at that time return to the normal responsibility of control of the units. Turnover between ECs should be performed in the Control Room if possible, with the new EC taking the Emergency Log Book to continue records of the event.

5.3 The Emergency Coordinator shall only grant permission for watch relief, including his own, when a proper turnover has been given and in his judgment, it is safe to do so.

5.4 The Emergency Coordinator shall authorize any radiation exposures in excess of regulatory limits. This authorization should be in accordance with EPIP-20111, Reentry. Authorization should be given only after consultation with the TSC Health Physics Supervisor and the Recovery Manager, if time permits. For those remote circumstances involving an event in progress, and obtaining EC approval will result in leaving the scene or decrease the victims chance of survival, life-saving actions may be performed without obtaining EC approval. The EC shall be notified immediately following the rescue operation.

5.5 The Emergency Coordinator shall authorize personnel exposures in excess of regulatory limits only for volunteers who are familiar with the risks involved and the tasks to be performed. Declared pregnant adults should not be used as on-site emergency workers.



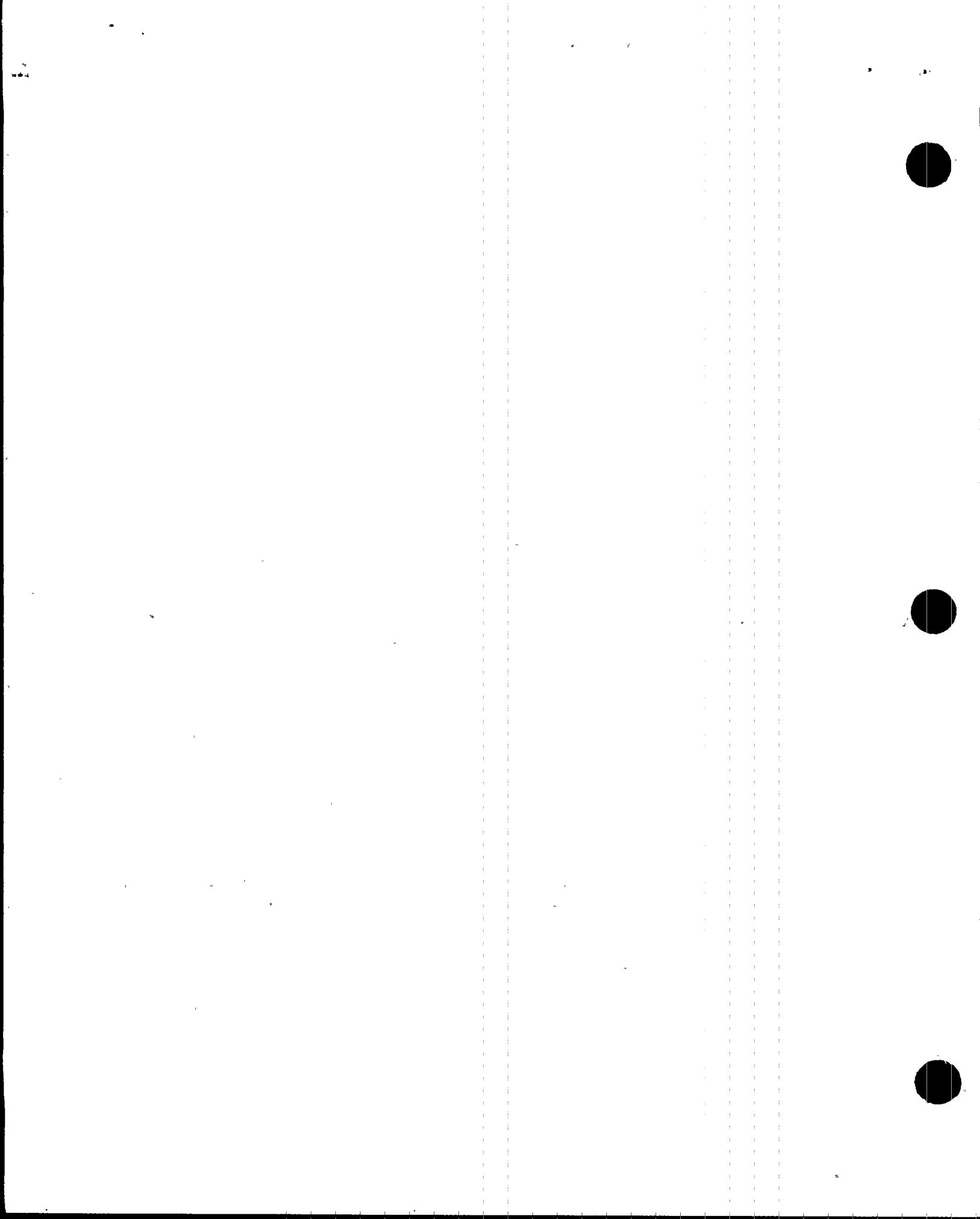
EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 10
DUTIES OF EMERGENCY COORDINATOR

6.0 References:

- 6.1 0-ADM-034, Oil and Hazardous Material Emergency Response Plan and Environmental Survey
- 6.2 0-ADM-048, Work Controls During Power Operations
- 6.3 0-ADM-115, Notification of Plant Events
- 6.4 0-ONOP-016.10, Pre-Fire Plan Guidelines and Safety Shutdown Manual Actions
- 6.5 EPIP-20104, Notification/Staff Augmentation
- 6.6 EPIP-20106, Natural Emergencies
- 6.7 EPIP-20107, Fire/Explosion Emergencies
- 6.8 EPIP-20110, Criteria for and Conduct of Owner Controlled Area Evacuation
- 6.9 EPIP-20111, Reentry
- 6.10 EPIP-20126, Offsite Dose Calculations
- 6.11 EPIP-20131, Transfer of Contaminated Injured Personnel Offsite
- 6.12 Turkey Point Plant Radiological Emergency Plan
- 6.13 Emergency Response Directory
- 6.14 10 CFR 50.47, Emergency Plans
- 6.15 10 CFR 50, App. E, Emergency Planning and Preparedness for Production and Utilization Facilities
- 6.16 NUREG-0654
- 6.17 Security Force Instruction 6307, Emergency Evacuation
- 6.18 PC/M 92-004, Upgrading Plant Page Audibility

7.0 Records and Notifications:

- 7.1 The following documents are generated as a result of this procedure:
 - 7.1.1 Completed checklists and worksheets on forms similar to the forms in this procedure from this procedure utilized by the Emergency Coordinator during the implementation of the Emergency Plan.
 - 7.1.2 The Emergency Log Book
- 7.2 Copies of the records of Steps 7.1.1 and 7.1.2 shall be transmitted to the Emergency Preparedness Coordinator. Originals shall be submitted as QA records to be retained in accordance with Quality Assurance Program requirements.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 11
DUTIES OF EMERGENCY COORDINATOR

8.0 Instructions:8.1 Fire/explosion emergency? Yes/No8.1.1 If NO, proceed to Subsection 8.2.Time

8.1.2 Fire/explosion reported

Location _____

Class (if known) A / B / C / D (see note below).

Injured personnel should be handled in accordance with Subsection 8.2.

Extent of damage to plant components _____

NOTE: Fire Classes:

A - wood, paper, cloth, rubber

B - combustible liquids, gases, greases

C - electrical related (involving energized equipment)

D - combustible metals

8.1.3 Make the following announcement using the Page Volume Boost:

"Attention all personnel. There is a reported class (if known) _____ fire/explosion in Unit (3 or 4) _____ (location) _____. All personnel in the fire/explosion location withdraw to a safe area. All Fire Brigade members report to (location of fire/explosion) _____."

8.1.4 Sound fire alarm.

8.1.5 Follow alarm with page announcement using the Page Volume Boost:

"Attention all personnel. There is a reported class (if known) _____ fire/explosion in Unit (3 or 4) _____ (location) _____. All personnel in the fire/explosion location withdraw to a safe area. All Fire Brigade members report to (location of fire/explosion) _____."

EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 12
DUTIES OF EMERGENCY COORDINATOR

Time _____

CAUTIONS:

Alarming dosimetry is available for Fire Brigade members to monitor direct radiological exposure. The air sampler located in the Fire Locker in the Auxiliary Building hallway is also available to assess airborne activity.

It may be necessary to relieve the Health Physics Fire Team members with other qualified Fire Brigade members in order to ensure additional Health Physics support.

8.1.6 Reference 0-ONOP-016.10, Pre-Fire Plans Guidelines and Safe Shutdown Manual Actions, as time permits and as necessary to aid Fire Brigade with area characteristics and aid Operations with safe shutdown actions.

8.1.7 Verify accountability with Security, if applicable. Direct Fire Brigade Leader to search for missing, if necessary.

CAUTION:

Due to minimal Contract Medical Response Staff of one (1) individual on back shifts and weekends, manpower requirements should be monitored by the Control Room.

8.1.8 Verify Contract Medical personnel dispatched to the vicinity of the fire scene.

8.1.9 Contact additional fire support if needed. See phone numbers listed in the Emergency Response Directory.

8.1.10 Inform Security of the pending arrival of offsite assistance if requested.

8.1.11 Classify fire/explosion per Table 1, and perform Subsection 8.2 if injuries occur or have occurred.

8.2 Medical Emergency? Yes/No

8.2.1 If NO, proceed to Subsection 8.3.

8.2.2 Medical Emergency reported

Name of victim _____

Employer _____

Location of victim _____

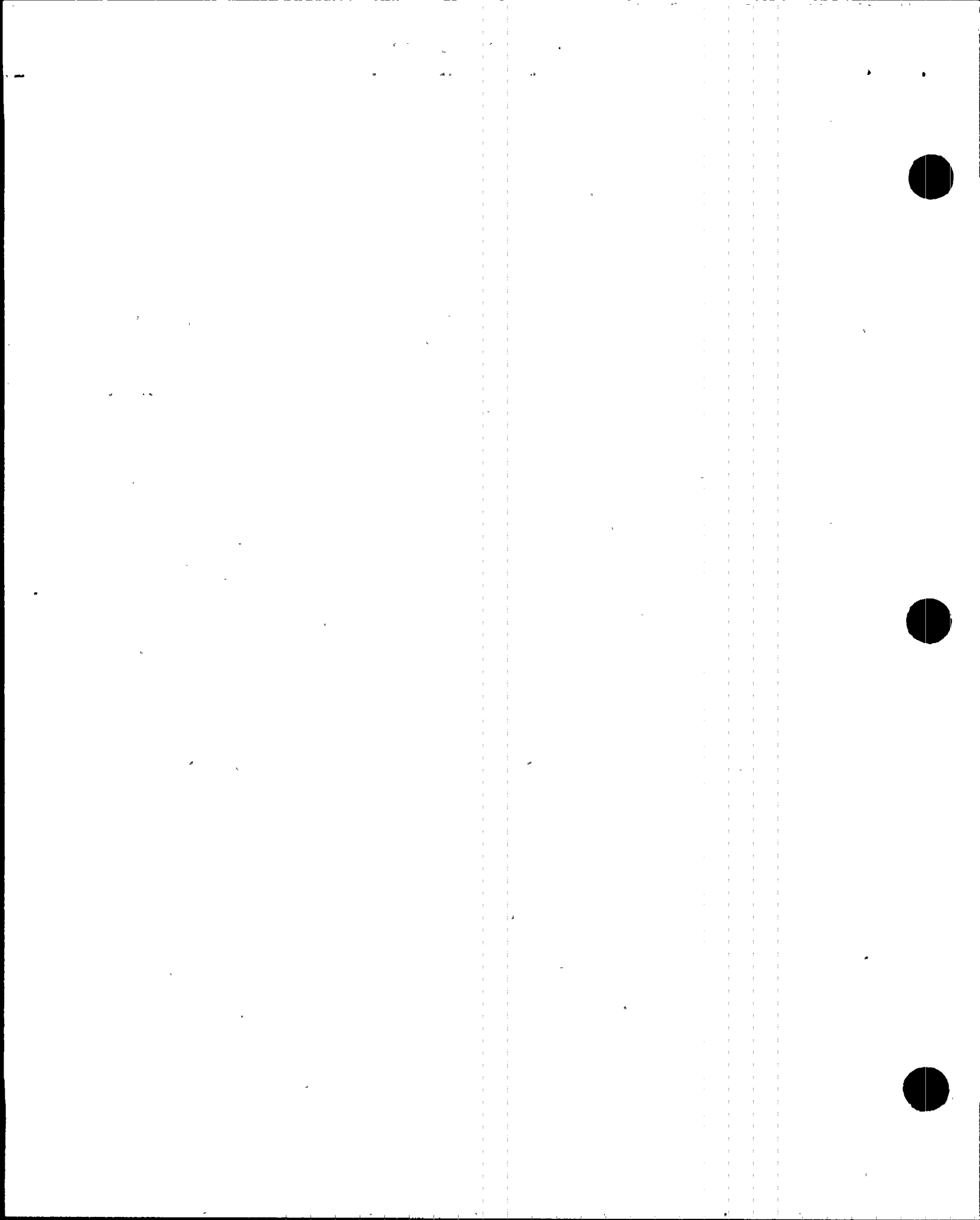
Nature/extent of injuries _____

Fractures? _____

Burns? _____

Hemorrhages? _____

Is victim potentially contaminated? _____



DUTIES OF EMERGENCY COORDINATORTime

8.2.3 Activate First Aid Team by contacting Chemistry personnel and Contract Medical Response Personnel. Provide Operations Department assistance as needed.

1. Make the following announcement twice using the Page Volume Boost:

"Attention all personnel. There is a reported medical emergency in Unit (3 or 4) _____ (location) _____. All personnel in the immediate area stand clear. All First Aid Team members report to (location) _____."

2. Contact Security for contract medical assistance entry to the Protected Area.

8.2.4 Notify Health Physics if injury is inside the RCA.

1. If the injured is also contaminated or potentially contaminated, ensure EPIP-20131, Transfer of Contaminated Injured Personnel Offsite is performed.

8.2.5 Request offsite medical assistance if needed. See phone numbers listed in the Emergency Response Directory.

NOTE: Metro Dade Fire/Rescue is the primary responder for offsite medical assistance transportation, and their personnel are trained in response to contaminated injured personnel. Randal Eastern Ambulance Service will be requested by Metro Dade Fire/Rescue dispatchers, if necessary.

1. Metro Dade Fire/Rescue

NOTE: Air Rescue support from Metro Dade Rescue 1 helicopter may be requested as warranted by the extent of injuries. Direct contact between the onsite paramedic and Rescue 1 dispatch personnel will expedite the request for air transportation.

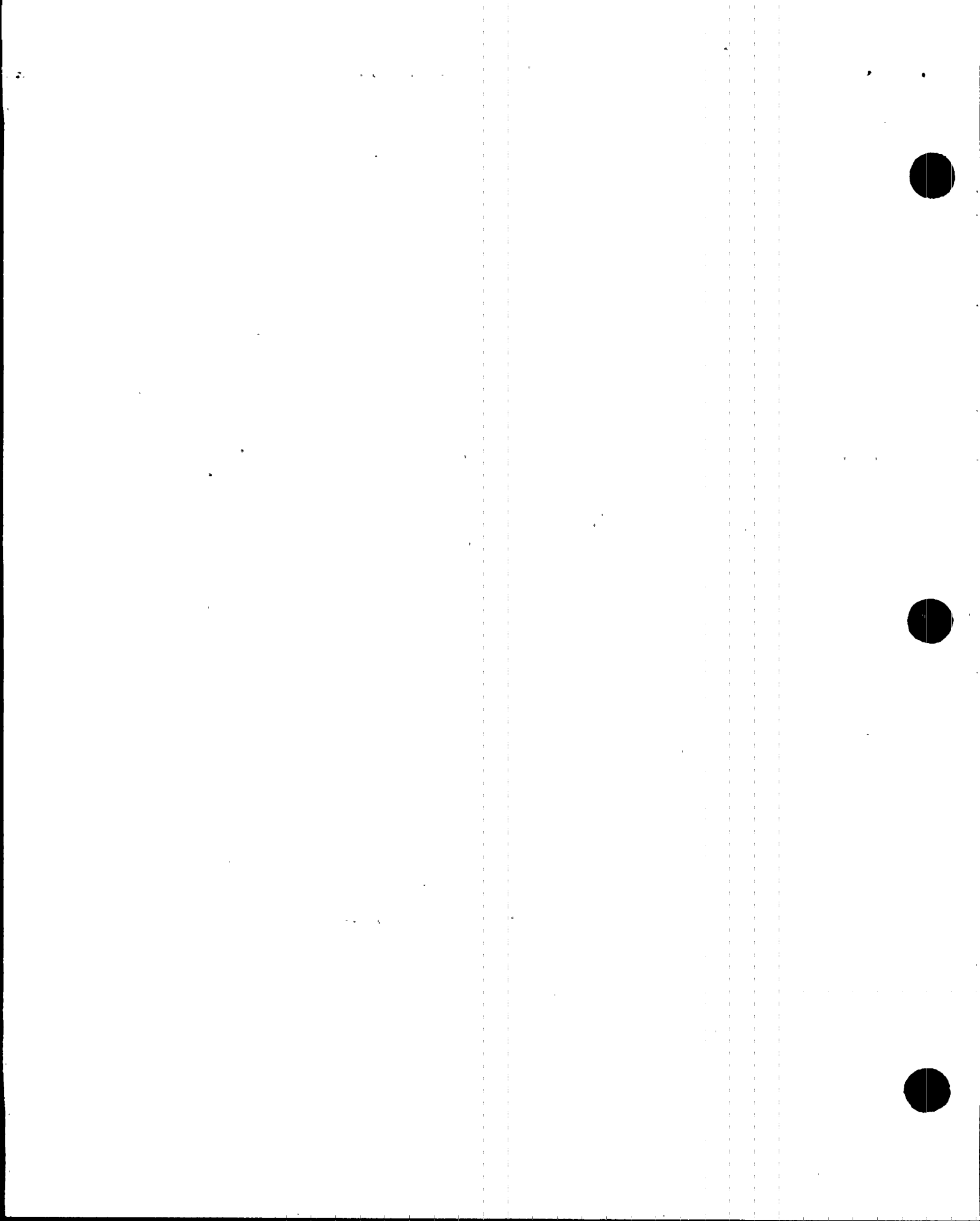
- a. If Air Rescue support is required, direct the contract medical personnel to communicate current medical conditions and urgency to Rescue dispatch personnel.

- b. Maintain awareness of request for Air Rescue support, while continuing with this procedure.

2. U.S. Coast Guard

8.2.6 Inform Security of the pending arrival of offsite assistance.

8.2.7 Transport victim to hospital if necessary.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 14
DUTIES OF EMERGENCY COORDINATOR

Time _____

8.2.8 If POTENTIALLY CONTAMINATED, notify receiving hospital. See phone numbers listed in the Emergency Response Directory.

1. Notify Baptist Hospital
or
2. Notify Mercy Hospital
or

CAUTION: REAC/TS should only be utilized if Baptist Hospital and/or Mercy Hospital requires additional assistance or cannot support the treatment of the patient. The patient should be stabilized by Baptist or Mercy and arrangements should be made with REAC/TS prior to transport.

3. Notify REAC/TS, Oak Ridge, TN for additional assistance, if necessary, or if Baptist Hospital and/or Mercy Hospital cannot support injury.

8.2.9 Relay information above of potentially contaminated injury (Step 8.2.2) to hospital notified in Step 8.2.8 and report:

Contamination Levels and Body areas affected _____

Radioisotopes involved _____

Type of transport vehicle _____

Departure time from plant _____

8.2.10 IF NOT CONTAMINATED:

Notify receiving hospital. See phone numbers listed in the Emergency Response Directory.

1. South Miami Homestead Hospital
2. Deering Hospital
3. Jackson Memorial Hospital

and report:

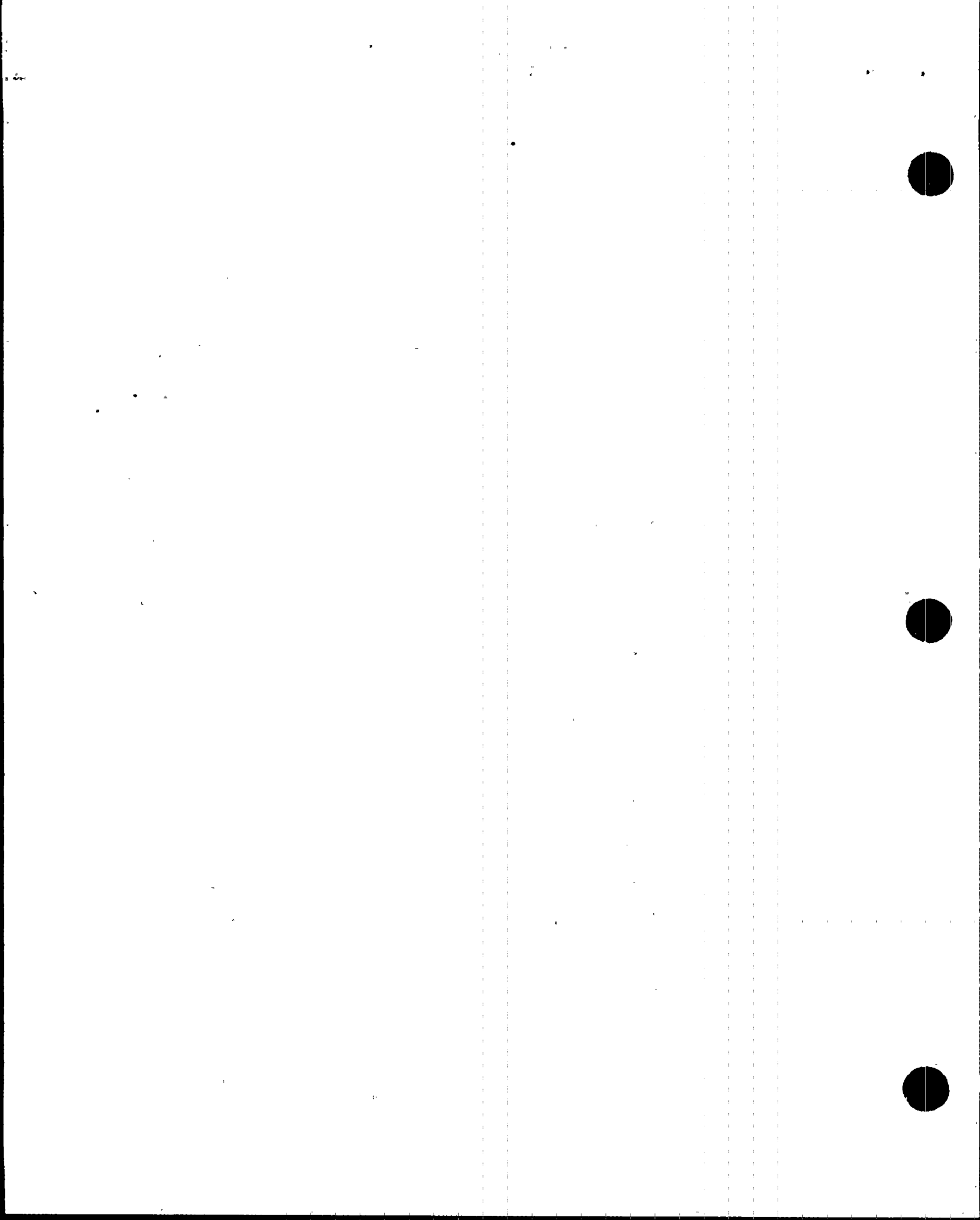
Injury information in Step 8.2.2 and:

Type of transport vehicle _____

Departure time from plant _____

8.2.11 If contaminated and transported offsite, classify Medical Emergency per Table 1.

8.2.12 Obtain status of victim after transport, as required.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 15
DUTIES OF EMERGENCY COORDINATOR

Time

8.3 Mitigating Actions and Classification of Off-Normal Event

8.3.1 Direct initial investigative and mitigating actions to correct Off-Normal event.

1. If the event involves a release of oil or hazardous material to the environment:
 - a. Activate the Fire Brigade to perform initial response if additional support is needed at the scene.
 - b. Notify the onshift Chemistry Technician.
 - c. Notify Mechanical Maintenance to provide support for containment and cleanup.
 - d. Notify the Environmental Compliance or Hazardous Materials Coordinator for response, and reportability determination. (Refer to the ERD for names and phone numbers).
 - e. Refer to 0-ADM-034, Oil and Hazardous Material Emergency Response Plan and Environmental Survey.

NOTE: Prescribed emergency announcements may be omitted or modified as directed by the Emergency Coordinator, or his designee, to prevent alarming intruders if security events warrant.

8.3.2 Direct Chemistry Personnel to implement EPIP-20126, Offsite Dose Calculations if a Release (see definitions) is in progress.

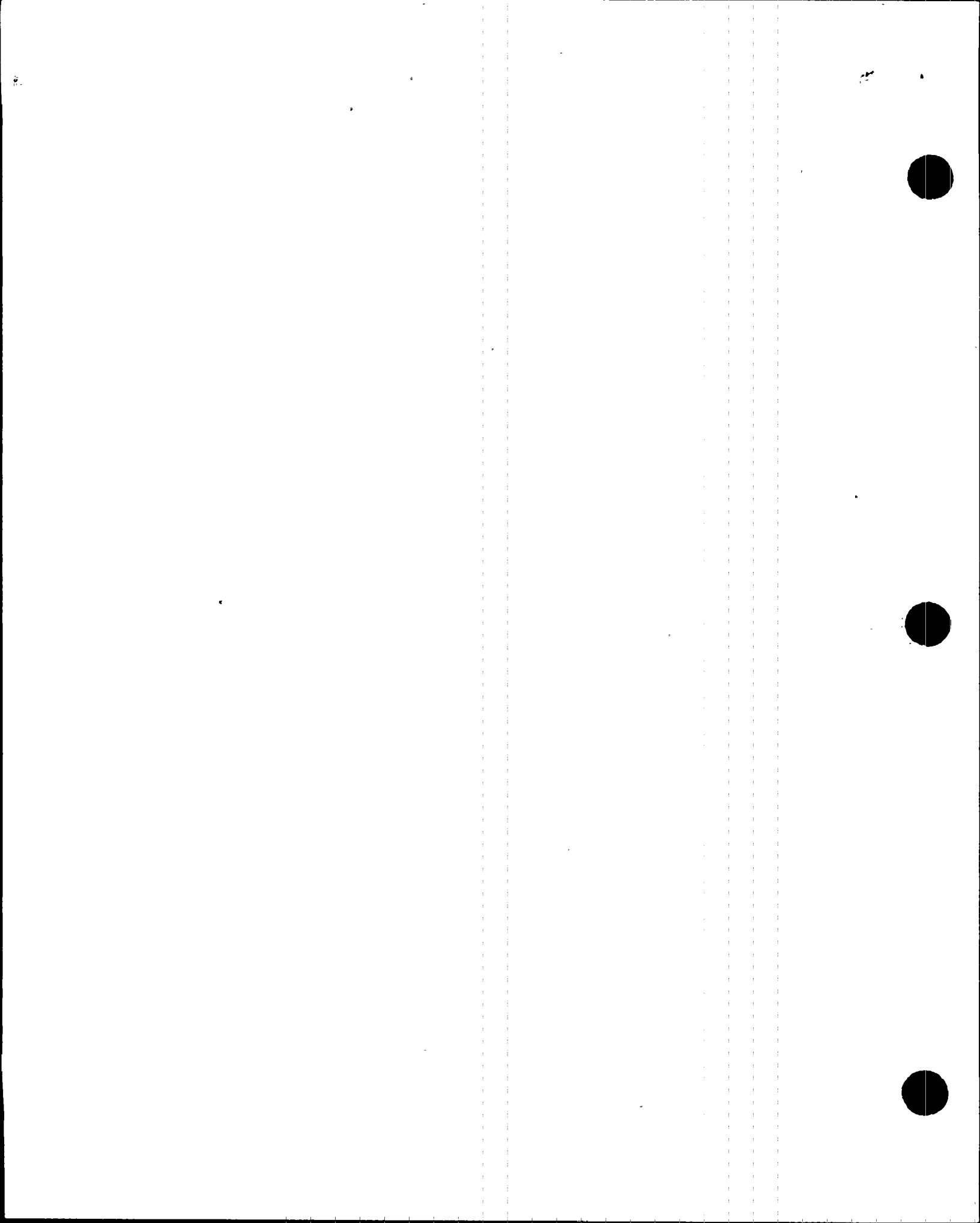
NOTES: • For planned evolutions such as safeguards testing, this procedure does not apply with regard to the actuation of safeguards equipment. However, if a deviation from the planned evolution occurs, this procedure should be consulted for event classification.

- If simultaneous emergencies occur at the site, the Emergency Classification shall be made based on the most severe condition at the site. Refer to the Discussion, Section 3.0 for further guidance regarding classification of simultaneous emergencies.

- If conditions meeting the Emergency Classification criteria are known to have existed but have been terminated, proceed with required classification and notification activities. An Unusual Event or Alert may be terminated by the Emergency Coordinator. A Site Area Emergency or General Emergency may only be de-escalated by the Recovery Manager (RM). Activation of the Onsite Emergency Response Facilities is not required for events that have been terminated by the responsible official.

If the event does not qualify as an Emergency per Table 1, proceed to 0-ADM-115, Notification of Plant Events, for further classification of event.

8.3.3 Classify Off-Normal event using present available information. Declare most conservative emergency class using Table 1 and proceed to step number and page listed on bottom of Table 1.



EMERGENCY CLASSIFICATION TABLE

1. Primary Leakage/LOCA

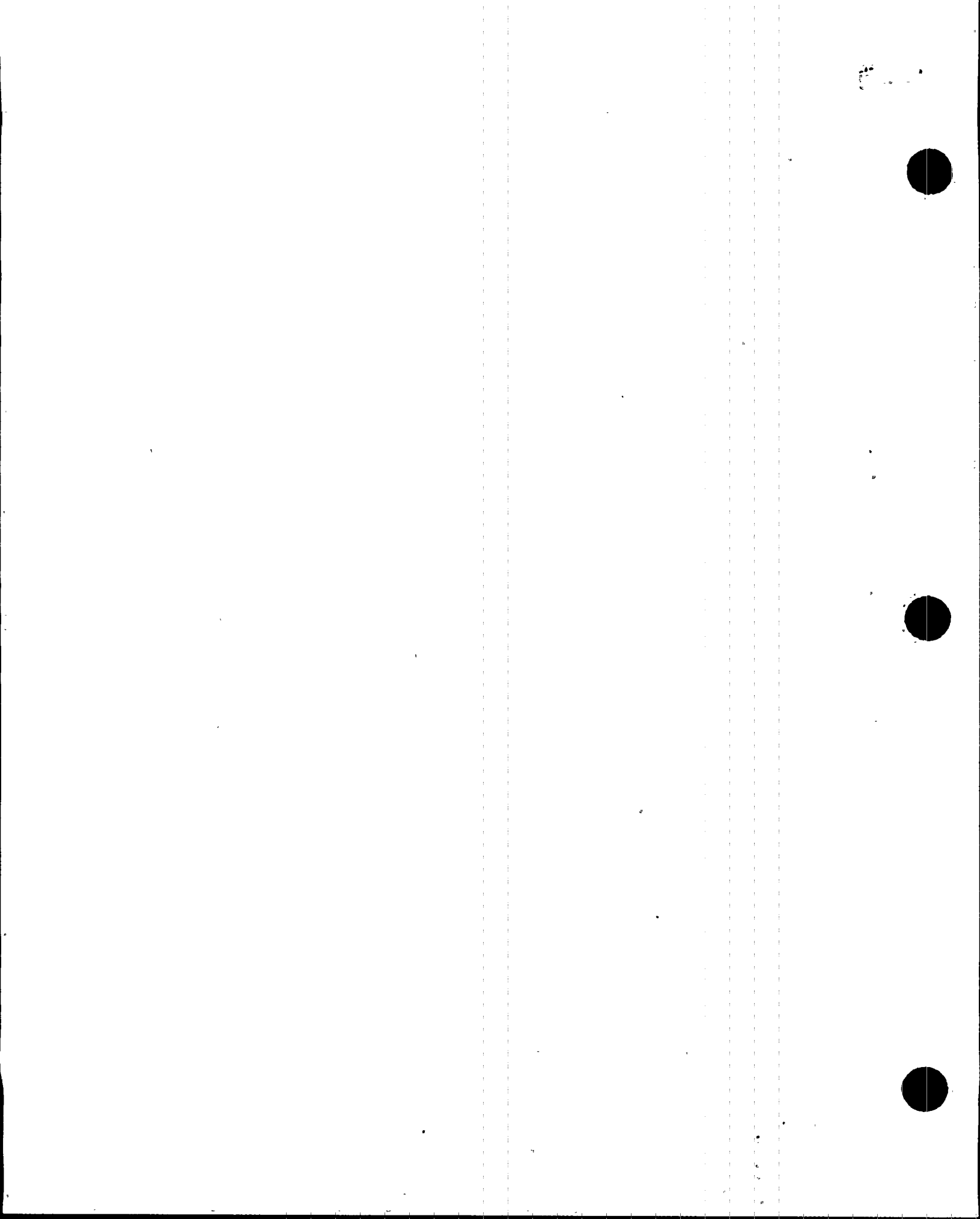
UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
Plant in Mode 1-2-3-4 <u>AND</u> Either A or B: A. RCS Leakage in excess of Technical Specifications 3.4.6.2, Reactor Coolant System Operational Leakage as indicated by either: 1) Unidentified RCS Leakage > 1 gpm, <u>OR</u> 2) Identified RCS Leakage greater than ten (10) gpm, <u>OR</u> 3) RCS Pressure Isolation Valve Leakage greater than allowable, <u>OR</u> 4) Any Pressure Boundary Leakage ----- B. Failure of any primary system safety or relief valve to close resulting in an uncontrolled RCS depressurization.	Plant in Mode 1-2-3-4 <u>AND</u> RCS leakage > 50 gpm <u>AND</u> RCS leakage within available charging pump capacity CAUTION: This section should not be used for events involving only a steam generator tube leak/rupture, or only a faulted/ruptured steam generator.	Plant in Mode 1-2-3-4 <u>AND</u> RCS leakage > 50 gpm <u>AND</u> RCS leakage greater than available charging pump capacity CAUTION: This section should not be used for events involving only a steam generator tube leak/rupture, or only a faulted/ruptured steam generator.	Either A or B: ----- A. RCS leakage > 50 gpm <u>AND</u> RCS leakage greater than available charging pump capacity <u>AND</u> Containment pressure > 20 psig CAUTION: This section should not be used for events involving only a steam generator tube leak/rupture, or only a faulted/ruptured steam generator. ----- B. Plant in Mode 1, 2, 3, 4, <u>AND</u> RCS leakage > 50 gpm <u>AND</u> RCS leakage greater than available charging pump capacity <u>AND</u> Loss of containment integrity which provides a flowpath to the environment. CAUTION: This section should not be used for events involving only a steam generator tube leak/rupture, or only a faulted/ruptured steam generator ----- CAUTION: Consult Table 2, Page 33 for required protective action recommendations.

Possible Control Room Indicators

TI-465, 467, 469 TEC Flow Indicators	Charging/Letdown Flow Mismatch	RCS pressure Containment Pressure ARM's Charging/Letdown Flow Mismatch	RCS pressure Containment Pressure PRMS R-14
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ACTION

Complete actions listed in Subsection 8.4, Page 37.	Complete actions listed in Subsection 8.5, Page 51.	Complete actions listed in Subsection 8.6, Page 65.	Complete actions listed in Subsection 8.7, Page 81.
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EMERGENCY CLASSIFICATION TABLE**2. Steam Generator Tube Leak/Rupture**

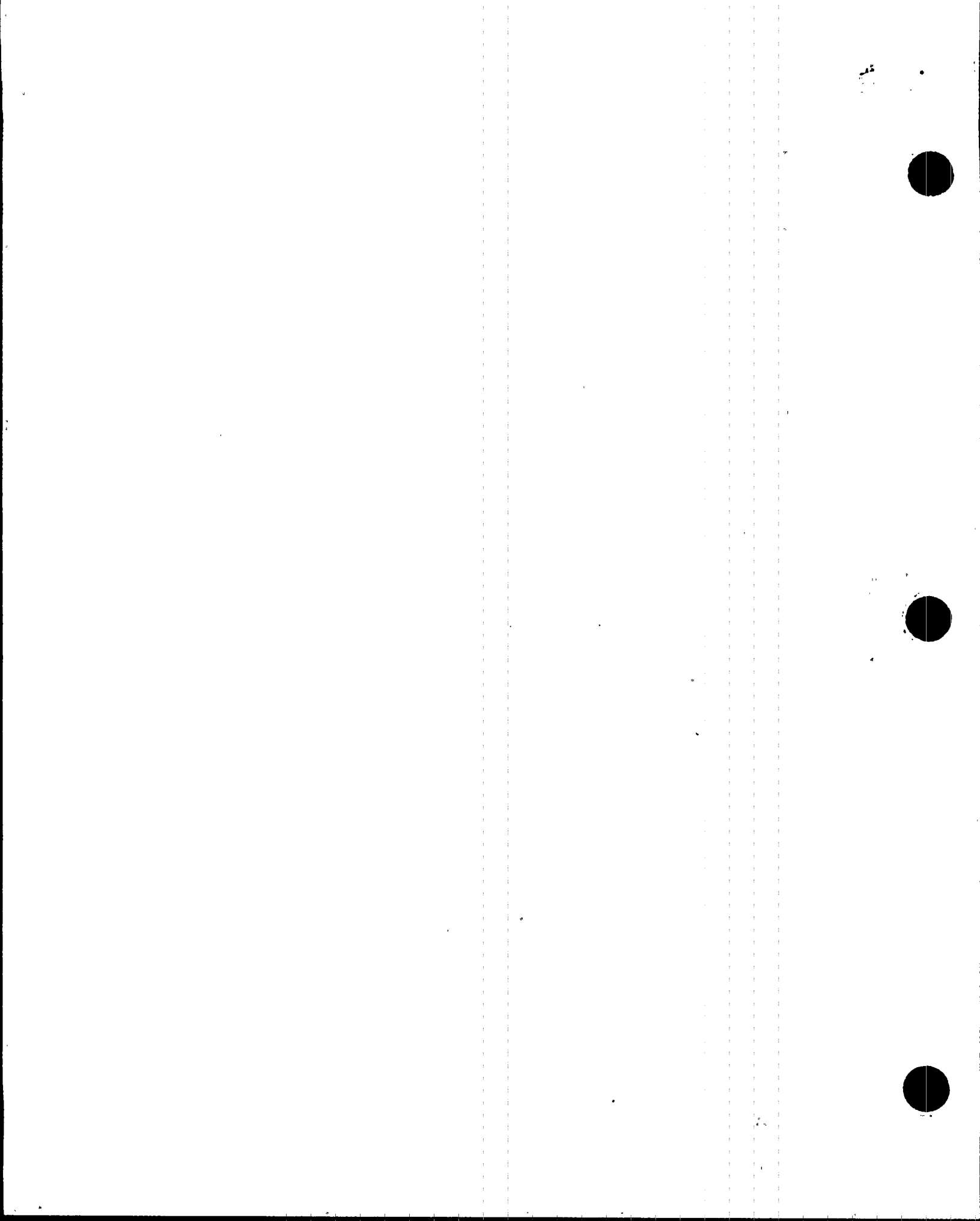
UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
<p>Either A or B:</p> <p>A. Greater than 500 gpd steam generator tube leakage to any one steam generator per Technical Specification 3.4.6.2, Reactor Coolant System</p> <p>-----</p> <p>B. Greater than 1 gpm total steam generator tube leakage per Technical Specification 3.4.6.2, Reactor Coolant System</p>	<p>Either A or B:</p> <p>A. Confirmed steam generator tube leakage > 50 gpm <u>AND</u> Steam generator tube leakage within available charging pump capacity <u>AND</u> Loss of offsite power</p> <p>-----</p> <p>B. Steam generator tube leakage greater than available charging pump capacity.</p>	<p>Steam generator tube leakage greater than available charging pump capacity <u>AND</u> Loss of offsite power</p> <p>CAUTION: Consult Table 2, Page 33 for possible protective action recommendations</p>	

Possible Control Room Indicators:

PRMS R-15 PRMS R-19	PRMS R-15 PRMS R-19 Charging/Letdown Flow Mismatch	PRMS R-15 PRMS R-19 Charging/Letdown Flow Mismatch	
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ACTION

Complete actions listed in Subsection 8.4, Page 37.	Complete actions listed in Subsection 8.5, Page 51.	Complete actions listed in Subsection 8.6, Page 65.	Complete actions listed in Subsection 8.7, Page 81.
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EMERGENCY CLASSIFICATION TABLE**3. Loss of Secondary Coolant**

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
Either A or B: A. Steamline or feedline break which results in Safety Injection actuation. ----- B. Failure of a steam generator safety or steam dump to atmosphere valve to close resulting in uncontrolled secondary depressurization.	Steamline or feedline break which results in Safety Injection actuation <u>AND</u> Evidence of significant (> 10 gpm) steam generator tube leakage in the affected steam generator.	Steamline or feedline break which results in Safety Injection actuation <u>AND</u> Confirmed RCS DEQ T-131 activity $\geq 300 \mu\text{Ci/gm}$ <u>AND</u> Confirmed steam generator tube leakage > 50 gpm in the affected steam generator CAUTION: Consult Table 2, Page 33 for possible protective action recommendations	

Possible Control Room Indicators

	PRMS R-15 PRMS R-19 Charging/Letdown Flow Mismatch	PRMS R-15 PRMS R-19 Charging/Letdown Flow Mismatch	
--	--	--	--

ACTION

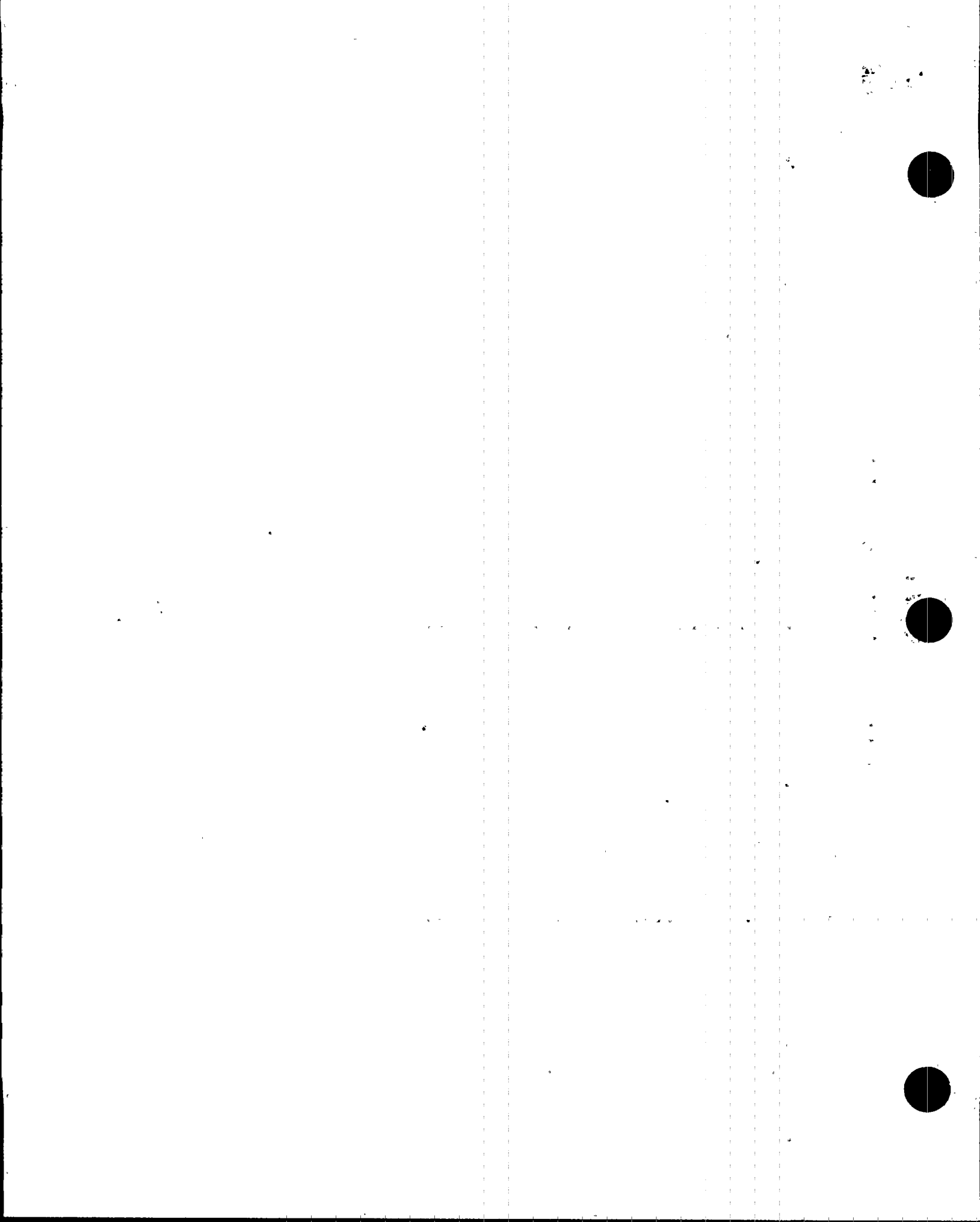
Complete actions listed in Subsection 8.4, Page 37.	Complete actions listed in Subsection 8.5, Page 51.	Complete actions listed in Subsection 8.6, Page 65.	Complete actions listed in Subsection 8.7, Page 81.
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EMERGENCY CLASSIFICATION TABLE**4. Fuel Handling Accident**

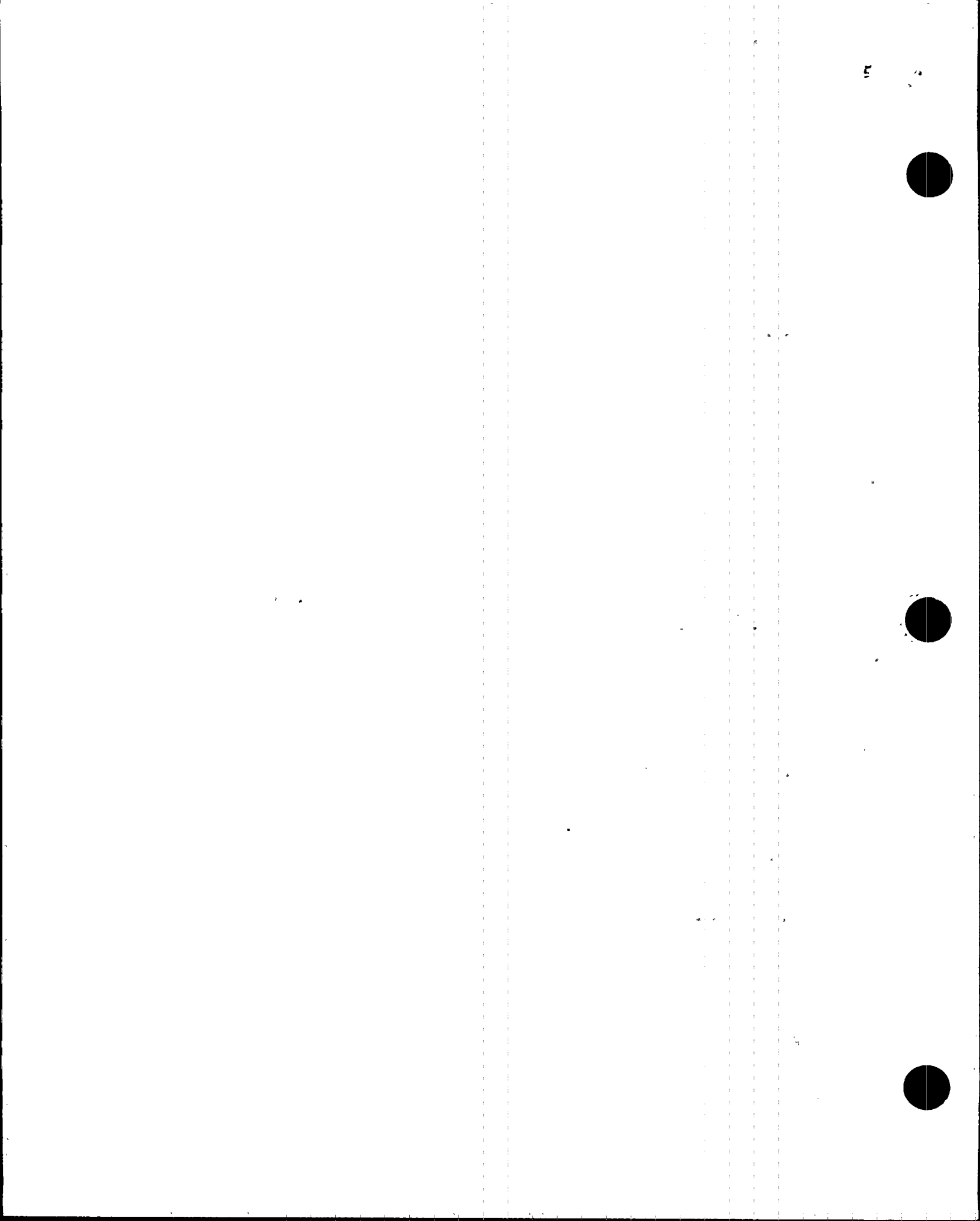
UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
	A spent fuel element has been dropped or damaged AND Release of radioactivity from the damaged spent fuel element has been detected.	<p>Either A, B or C:</p> <p>A. Major damage to one or more spent fuel elements has occurred AND Affected area radiation monitors are $> 10^3$ mR/hr.</p> <p>-----</p> <p>B. Major damage to one or more spent fuel elements has occurred AND Containment radiation levels $> 1.3 \text{ E4 Rem/hr}$</p> <p>-----</p> <p>C. Major damage to one or more spent fuel elements due to water level being below top of spent fuel.</p>	
Possible Control Room Indicators			
	ARMS R-2, 5, 7, 8, 19, 21, 22 PRMS R-12, 14	ARMS R-2, 5, 7, 8, 19, 21, 22 PRMS R-12, 14 SFP Level Indication RI-6311A RI-6311B	
ACTION			
Complete actions listed in Subsection 8.4, Page 37.	Complete actions listed in Subsection 8.5, Page 51.	Complete actions listed in Subsection 8.6, Page 65.	Complete actions listed in Subsection 8.7, Page 81.



EMERGENCY CLASSIFICATION TABLE

5. Loss of Safe Shutdown Functions/ATWS

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
	<p>Either A, B, C or D:</p> <p>A. Reactor critical AND Failure of the Reactor Protection System to initiate a trip signal when a trip setpoint has been exceeded.</p> <p>B. Reactor critical AND Reactor fails to trip on automatic signal</p> <p>C. Reactor critical AND Reactor fails to trip on manual signal</p> <p>D. RCS temperature increasing due to loss of decay heat removal capability from all of the following:</p> <ol style="list-style-type: none"> 1) RHR system 2) Forced RCS circulation 3) Natural RCS circulation 	<p>Either A, B, C or D:</p> <p>A. Inability to bring the reactor subcritical with control rods</p> <p>B. Plant in Mode 1-2-3 AND Loss of steam release capability from all of the following:</p> <ol style="list-style-type: none"> 1) Condenser steam dumps 2) Atmospheric steam dumps 3) All steam generator safeties <p>C. Plant in Mode 1-2-3 AND Loss of secondary heat sink has occurred AND RCS bleed and feed is required.</p> <p>D. Plant in Mode 1-2-3 AND RCS injection capability has been lost from:</p> <ol style="list-style-type: none"> 1) Charging pumps 2) High-head SI pumps <p>except due to loss of all AC power. Refer to Section 10, Loss of Power Conditions.</p>	<p>Either A or B:</p> <p>A. Inability to bring the reactor subcritical AND RCS pressure > 2485 psig.</p> <p>B. Inability to bring the reactor subcritical AND Containment pressure ≥ 4 psig.</p> <p>CAUTION: Consult Table 2, Page 33 for required protective action recommendations.</p>
Possible Control Room Indicators			
ACTION			
Complete actions listed in Subsection 8.4, Page 37.	Complete actions listed in Subsection 8.5, Page 51.	Complete actions listed in Subsection 8.6, Page 65.	Complete actions listed in Subsection 8.7, Page 81.



EMERGENCY CLASSIFICATION TABLE

6. Fuel Element Failure

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
RCS activity requiring plant shutdown or cooldown per Technical Specification 3.4.8.	<p>Either A, B or C:</p> <p>A. Confirmed RCS DEQ I-131 activity $\geq 300 \mu\text{Ci/gm}$.</p> <p>-----</p> <p>B. An increase of $> 1\%$ fuel failure in 30 minutes.</p> <p>-----</p> <p>C. Total fuel failure of 5%.</p>	<p>Fuel element failure as indicated by A, B, or C:</p> <p>A. Confirmed RCS DEQ I-131 activity $\geq 300 \mu\text{Ci/gm}$. AND RCS $T_{\text{hot}} > 620^\circ\text{F}$.</p> <p>-----</p> <p>B. Confirmed RCS DEQ I-131 activity $\geq 300 \mu\text{Ci/gm}$. AND Core exit thermocouples $> 700^\circ\text{F}$.</p> <p>-----</p> <p>C. Containment high range radiation monitor reading $> 1.3 \text{ E4 Rem/hr}$.</p>	<p>Fuel element failure as defined in Site Area Emergency of this section AND Any of the following is imminent or in progress:</p> <p>a) LOCA with loss of containment cooling OR b) LOCA with loss of containment integrity which provides a flowpath to the environment OR c) Steam generator tube rupture with unisolable flowpath from the ruptured steam generator to the environment.</p> <p>CAUTION: Consult Table 2, Page 33 for required protective action recommendations.</p>

Possible Control Room Indicators

	PRMS R-20 ARMS R-1 through R-6	Core Exit Thermocouples RI-6311A RI-6311B	
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ACTION

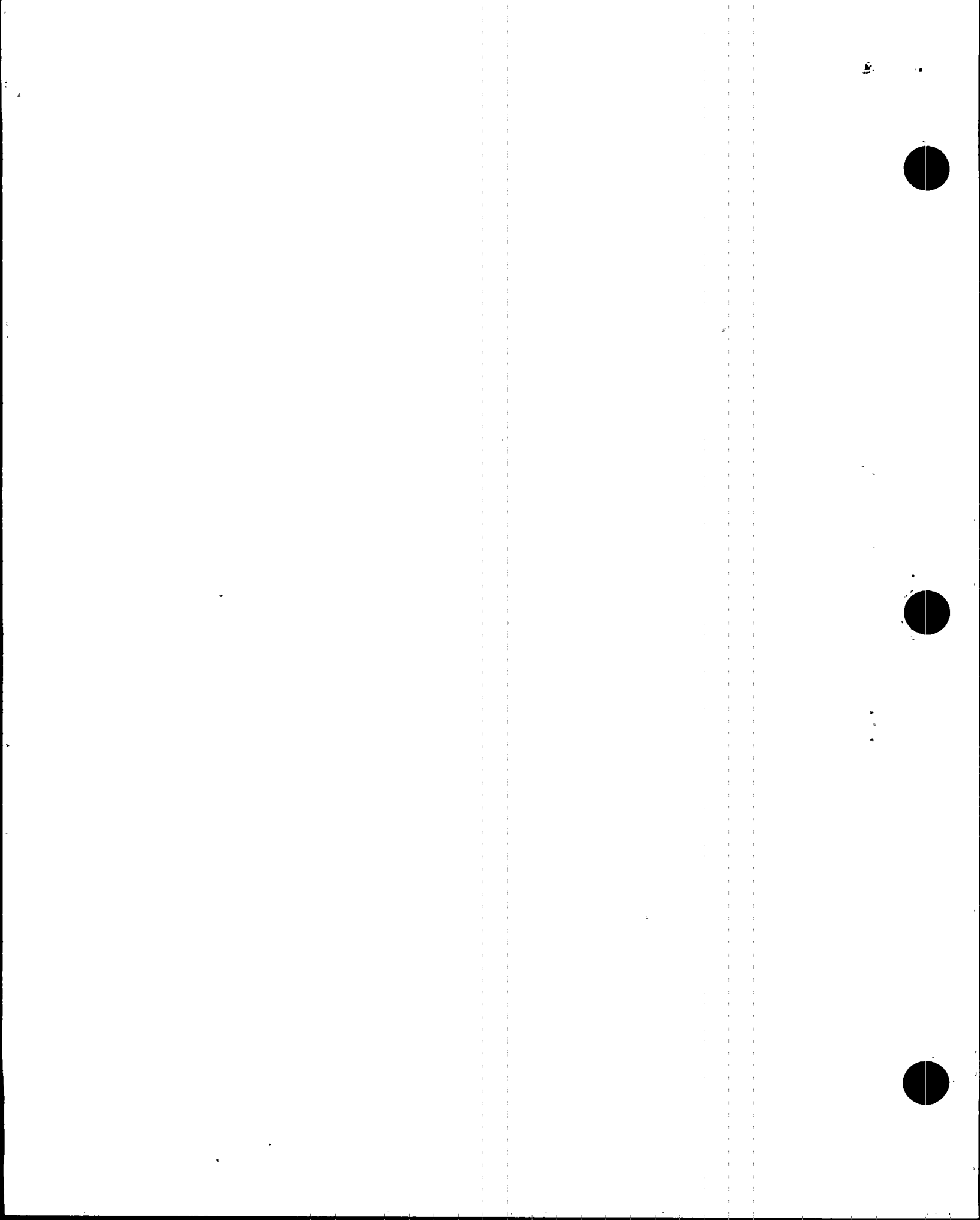
Complete actions listed in Subsection 8.4, Page 37.	Complete actions listed in Subsection 8.5, Page 51.	Complete actions listed in Subsection 8.6, Page 65.	Complete actions listed in Subsection 8.7, Page 81.
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TABLE 1

EMERGENCY CLASSIFICATION TABLEEPIP 20101
Page 22
12/29/94**7. Uncontrolled Effluent Release**

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
<p>A radioactive release to the Unrestricted Area has occurred or is in progress which exceeds either A or B:</p> <p>A. Technical Specification 3.11 limits for gaseous release per 3/4-ONOP-067, Inadvertent Release of Radioactive Gas.</p> <p>NOTE: Direct Chemistry to perform offsite dose estimates per EPIP-20126, Offsite Dose Calculations.</p> <p>-----</p> <p>B. Technical Specification 3.11 limits for liquid release.</p> <p>NOTE: Direct Chemistry to perform release calculation in accordance with Offsite Dose Calculation Manual.</p>	<p>A radioactive release to the Unrestricted Area has occurred or is in progress which exceeds either A or B:</p> <p>A. Ten times Technical Specification 3.11 limits for gaseous release per 3/4-ONOP-067, Inadvertent Release of Radioactive Gas.</p> <p>NOTE: Direct Chemistry to perform offsite dose estimates per EPIP-20126, Offsite Dose Calculations.</p> <p>-----</p> <p>B. Ten times Technical Specification 3.11 limits for liquid release.</p> <p>NOTE: Direct Chemistry to perform release calculation in accordance with Offsite Dose Calculation Manual.</p>	<p>Performance of EPIP-20126, Offsite Dose Calculation or offsite surveys indicate site boundary exposure levels have been exceeded as indicated by either A, B, C, or D:</p> <p>A. ≥ 50 mrem/hr total dose rate for 1/2 hour</p> <p>-----</p> <p>B. ≥ 250 mrem/hr to the thyroid for 1/2 hour</p> <p>-----</p> <p>C. ≥ 500 mrem/hr total dose rate for 2 minutes</p> <p>-----</p> <p>D. ≥ 2500 mrem/hr to the thyroid for 2 minutes</p> <p>NOTE: Site boundary equals 1 mile radius from affected unit.</p> <p>CAUTION: Consult Table 2, Page 33 for possible protective action recommendations.</p>	<p>Performance of EPIP-20126, Offsite Dose Calculation or offsite surveys indicate site boundary exposure levels have been exceeded as indicated by either A, B, C or D:</p> <p>A. ≥ 1000 mrem/hr total dose rate</p> <p>-----</p> <p>B. ≥ 1000 mrem total dose (TEDE)</p> <p>-----</p> <p>C. ≥ 5000 mrem/hr to the thyroid</p> <p>-----</p> <p>D. ≥ 5000 mrem thyroid dose (CDE)</p> <p>NOTE: Site boundary equals 1 mile radius from affected unit.</p> <p>CAUTION: Consult Table 2, Page 33 for required protective action recommendations.</p>
Possible Control Room Indicators			
ACTION			
Complete actions listed in Subsection 8.4, Page 37.	Complete actions listed in Subsection 8.5, Page 51.	Complete actions listed in Subsection 8.6, Page 65.	Complete actions listed in Subsection 8.7, Page 81.



EMERGENCY CLASSIFICATION TABLE**8. High Radiation Levels In Plant**

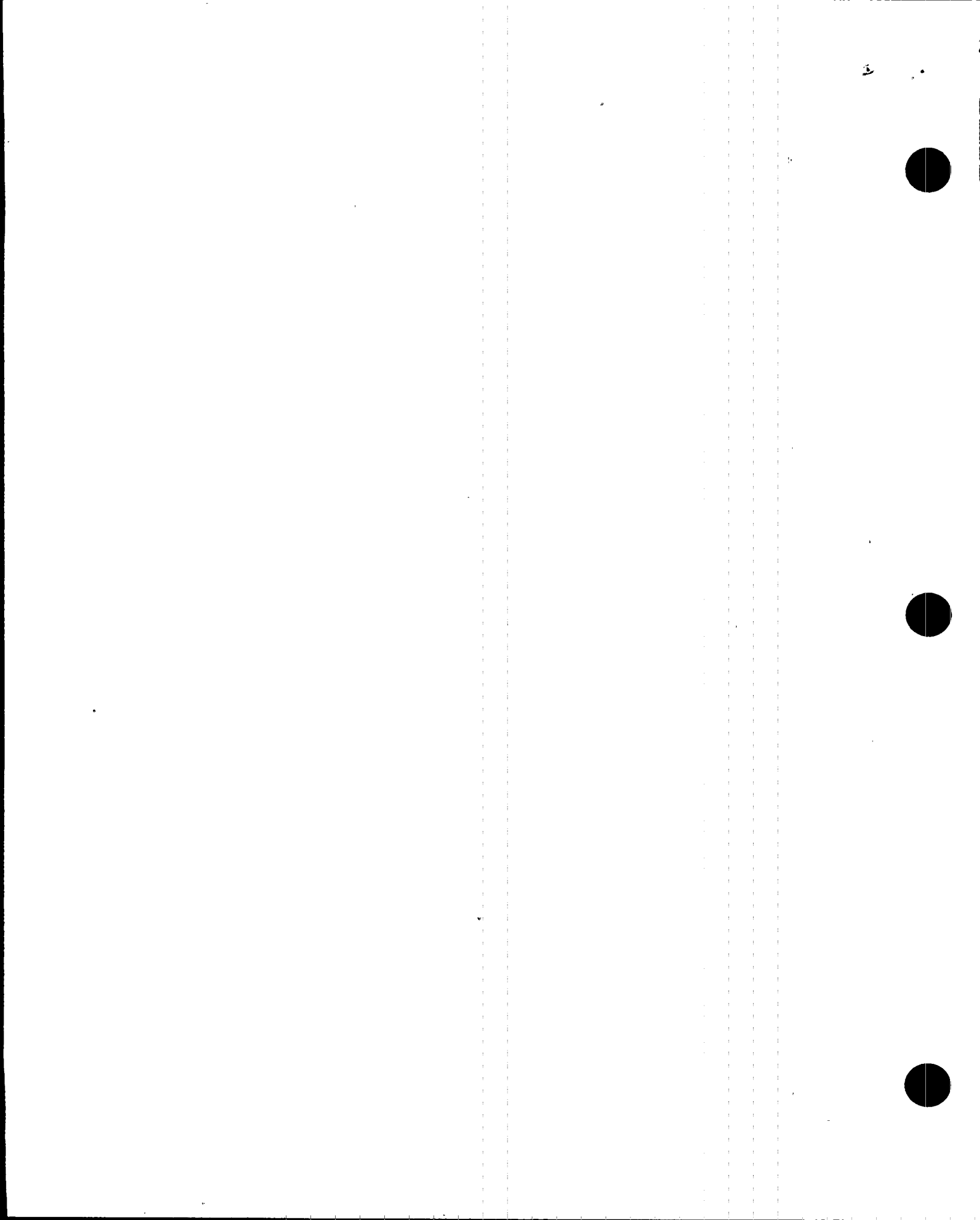
UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
	<p>Severe loss of control of radioactive materials as indicated by either A, B or C:</p> <p>A. Unexpected valid area monitor alarm from an undeterminable source with meter greater than 10^3 mR/hr.</p> <p>-----</p> <p>B. Unexpected plant iodine or particulate airborne concentration > 1000 DAC as per 10 CFR 20 Appendix B, Table 1.</p> <p>-----</p> <p>C. Unexpected direct radiation dose rate reading or unexpected airborne radioactivity concentration from an undetermined source in excess of 1000 times normal levels.</p>	<p>Containment High Range Radiation Monitor reading $> 1.3 \text{ E4 Rem/hr.}$</p> <p>NOTE: Direct Chemistry to perform offsite dose estimates per EPIP- 20126, Off-Site Dose Calculations. (See Section 7, Uncontrolled Effluent Release)</p> <p>CAUTION: Consult Table 2, Page 33 for possible protective action recommendations.</p>	<p>Containment High Range Radiation Monitor reading $> 1.3 \text{ E5 Rem/hr.}$</p> <p>NOTE: Direct Chemistry to perform offsite dose estimates per EPIP- 20126, Off-Site Dose Calculations. (See Section 7, Uncontrolled Effluent Release)</p> <p>CAUTION: Consult Table 2, Page 33 for required protective action recommendations.</p>

Possible Control Room Indicators

	Area Radiation Monitors	RI-6311A RI-6311B	RI-6311A RI-6311B
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ACTION

Complete actions listed in Subsection 8.4, Page 37.	Complete actions listed in Subsection 8.5, Page 51.	Complete actions listed in Subsection 8.6, Page 65.	Complete actions listed in Subsection 8.7, Page 81.
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EMERGENCY CLASSIFICATION TABLE

9. Other Plant Conditions That Could Lead To Substantial Core Damage

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
			<p>Either A or B:</p> <p>A. Potential core damage indicated by all of the following:</p> <ol style="list-style-type: none"> 1) Known LOCA greater than available charging pump capacity AND 2) Failure of ECCS to deliver flow to the core AND 3) Containment High Range Radiation Monitor reading > 1.3 E4 Rem/hr. <p>-----</p> <p>B. Potential core damage indicated by all of the following:</p> <ol style="list-style-type: none"> 1) Loss of secondary heat sink AND 2) RCS bleed and feed required AND 3) No high-head SI flow available AND 4) No RHR flow for greater than 30 minutes AND 5) No AFW flow for greater than 30 minutes <p>CAUTION: Consult Table 2, Page 33 for required protective action recommendations.</p>

Possible Control Room Indicators

ACTION			
Complete actions listed in Subsection 8.4, Page 37.	Complete actions listed in Subsection 8.5, Page 51.	Complete actions listed in Subsection 8.6, Page 65.	Complete actions listed in Subsection 8.7, Page 81.



EMERGENCY CLASSIFICATION TABLE**10. Loss Of Power Conditions**

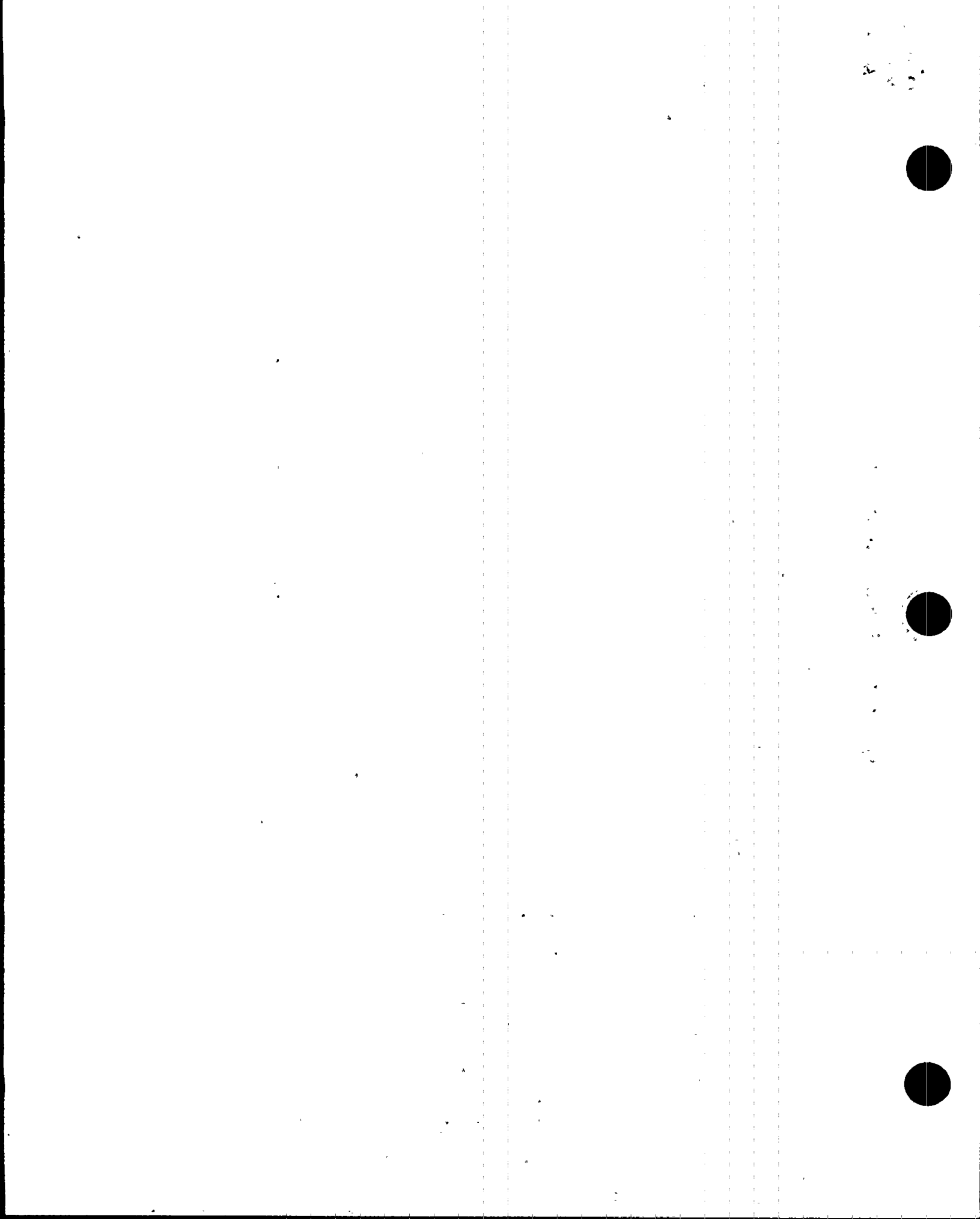
UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
<p>Either A or B:</p> <p>A. Loss of offsite power to the:</p> <p>1) A 4KV bus AND 2) B 4KV bus</p> <p>-----</p> <p>B. Loss of onsite power capability as indicated by:</p> <p>1) Loss of capability to power at least one vital 4KV bus from any of the four available emergency diesel generator.</p>	<p>Either A or B:</p> <p>A. Loss of all vital onsite DC power.</p> <p>-----</p> <p>B. Loss of offsite power AND Both associated emergency diesel generators fail to energize their associated 4KV buses.</p> <p>NOTE: Refer to Section 5, Loss of Safe Shutdown Function</p>	<p>Either A, B or C with fuel in the Reactor Vessel</p> <p>A. Loss of all A/C power for > 15 minutes.</p> <p>-----</p> <p>B. Loss of all vital onsite DC power for > 15 minutes.</p> <p>-----</p> <p>C. Emergency Coordinator leaves Control Room within the first 15 minutes of a loss of all A/C <u>OR</u> DC power.</p>	<p>The following situation exists for: > 1 hr with fuel in the Reactor Vessel.</p> <p>a) Loss of all A/C power AND b) Loss of all feedwater capability.</p> <p>CAUTION: Consult Table 2, Page 33 for required protective action recommendations.</p>

Possible Control Room Indicators

4Kv Bus Voltage 4Kv Bus Amps			
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ACTION

Complete actions listed in Subsection 8.4, Page 37.	Complete actions listed in Subsection 8.5, Page 51.	Complete actions listed in Subsection 8.6, Page 65.	Complete actions listed in Subsection 8.7, Page 81.
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EMERGENCY CLASSIFICATION TABLE**11. Loss Of Assessment Functions**

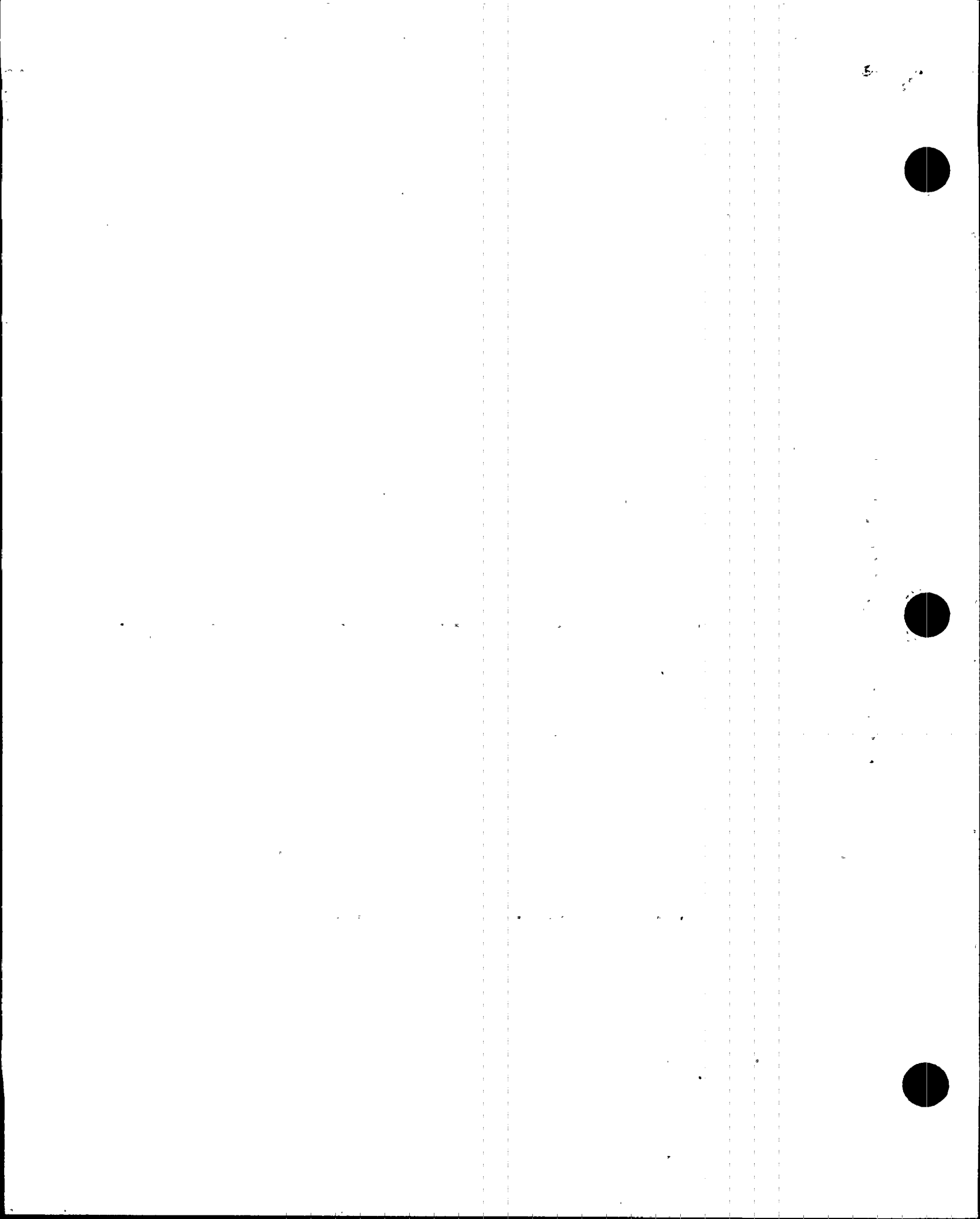
UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
<p>Either A, B, or C:</p> <p>A. Unplanned loss of most or all Safety System Annunciators for greater than 15 minutes.</p> <p>-----</p> <p>B. Loss of primary communications with offsite locations AND Loss of all backup communications with offsite locations</p> <p>-----</p> <p>C. Loss of effluent or radiological monitoring capability requiring plant shutdown.</p>	<p>Unplanned loss of <u>ALL</u> Safety System Annunciators AND Plant Transient in progress</p>	<p>Inability to monitor a significant transient in progress.</p>	

Possible Control Room Indicators

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ACTION

Complete actions listed in Subsection 8.4, Page 37.	Complete actions listed in Subsection 8.5, Page 51.	Complete actions listed in Subsection 8.6, Page 65.	Complete actions listed in Subsection 8.7, Page 81.
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EMERGENCY CLASSIFICATION TABLE**12. Natural Phenomena**

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
Plant in Mode 1-2-3-4 <u>AND</u> either A, B, C or D:	Plant in any mode including defueled. <u>AND</u> either A, B, C or D:	Plant in Mode 1-2-3-4 <u>AND</u> either A, B or C:	A major natural event (e.g., high winds, earthquake, flooding) has occurred, which has caused massive damage to plant systems resulting in any of the other General Emergency initiating conditions.
A. Confirmed hurricane warning <u>OR</u> B. Confirmed tornado in owner controlled area <u>OR</u> C. Any earthquake detected onsite <u>OR</u> D. Hurricane/flood surge that prevents land access to the site	<u>NOTE:</u> If accurate projections of onsite wind speeds are not available within 12 hours of entering the hurricane warning, classify the event using current hurricane track and wind speeds to project onsite conditions. For example, projected onsite wind speed would be less than current hurricane wind speed if the track is away from PTN. A. Confirmed hurricane warning with maximum projected onsite wind speeds in excess of 200 mph <u>OR</u> B. Tornado striking any power block structure <u>OR</u> C. Earthquake that could cause or has caused trip of the turbine generator or reactor <u>OR</u> D. Hurricane/flood surge that raises water level > 18 feet above MLW	<u>NOTE:</u> If accurate projections of onsite wind speeds are not available within 12 hours of entering the hurricane warning, classify the event using current hurricane track and wind speeds to project onsite conditions. For example, projected onsite wind speed would be less than current hurricane wind speed if the track is away from PTN. A. Confirmed hurricane warning with maximum projected onsite wind speeds in excess of 225 mph <u>AND</u> the unit not expected to be in cold shutdown prior to the projected onset of hurricane force winds <u>OR</u> B. Earthquake has caused loss of any safety system function <u>OR</u> C. Hurricane/flood surge that raises water level > 18 feet above MLW and results in shutdown of turbine generator	<u>CAUTION:</u> Consult Table 2, Page 33 for required protective action recommendations.

Possible Control Room Indicators

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ACTION

Complete actions listed in Subsection 8.4, Page 37.	Complete actions listed in Subsection 8.5, Page 51.	Complete actions listed in Subsection 8.6, Page 65.	Complete actions listed in Subsection 8.7, Page 81.
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EMERGENCY CLASSIFICATION TABLE**13. Hazards To Station Personnel And Equipment**

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
Safety of nuclear plant or personnel threatened by either A, B, C, D, or E:	Either A, B or C:	Either A or B:	
A. Aircraft crash onsite -----	A. A reduction in the level of safety of plant structures or components within the protected area due to damage caused by either 1), 2), or 3): 1) Aircraft crash <u>OR</u> 2) Missile impact <u>OR</u> 3) Explosion	A. Plant in Mode 1-2-3-4 <u>AND</u> Safety systems have failed or damage to vital structure has been caused by either 1), 2), or 3): 1) Aircraft crash <u>OR</u> 2) Missile impact <u>OR</u> 3) Explosion	
B. Unusual aircraft activity over facility -----			
C. Toxic or flammable gas release -----			
D. Turbine generator rotating component failure requiring rapid turbine shutdown -----	NOTE: Explosion is defined as a rapid chemical reaction resulting in noise, heat, and the rapid expansion of gas. -----	NOTE: Explosion is defined as a rapid chemical reaction resulting in noise, heat, and the rapid expansion of gas. -----	
E. Onsite explosion	B. Toxic or flammable gas release which threatens plant operation. -----	B. Toxic or flammable gas release into control or vital areas which renders one train of safety related systems inoperable.	
NOTE: Explosion is defined as a rapid chemical reaction resulting in noise, heat, and the rapid expansion of gas.	C. Turbine generator failure resulting in casing penetration.		

Possible Control Room Indicators

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ACTION

Complete actions listed in Subsection 8.4, Page 37.	Complete actions listed in Subsection 8.5, Page 51.	Complete actions listed in Subsection 8.6, Page 65.	Complete actions listed in Subsection 8.7, Page 81.
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TABLE 1

EMERGENCY CLASSIFICATION TABLEEPIP 20101
Page 29
12/29/94**14. Security Threat**

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
Declaration of a "Security Alert" due to either A, B, C, D, E, F, G, H	Declaration of a "Security Emergency"	Declaration of a "Security Emergency" involving imminent occupancy of the Control Room or other vital areas by intruders.	Physical attack on the plant resulting in occupation of the Control Room or other vital areas by intruders.
A. Bomb Threat -----			
B. Attack threat -----			CAUTION: Consult Table 2, Page 33 for required protective action recommendations.
C. Civil disturbance -----			
D. Protected area intrusion -----			
E. Sabotage attempt -----			
F. Internal disturbance -----			
G. Vital area intrusion -----			
H. Security Force strike -----			

Possible Control Room Indicators

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ACTION

Complete actions listed in Subsection 8.4, Page 37.	Complete actions listed in Subsection 8.5, Page 51.	Complete actions listed in Subsection 8.6, Page 65.	Complete actions listed in Subsection 8.7, Page 81.
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EMERGENCY CLASSIFICATION TABLE**15. Control Room Evacuation**

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
	Control Room evacuation anticipated or required	Control Room has been evacuated AND Local control of shutdown systems has NOT been established from local stations within 15 minutes.	

Possible Control Room Indicators

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16. Fire

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
Uncontrolled fire within the power block lasting longer than 10 minutes	Uncontrolled fire potentially affecting safety systems AND Offsite support required.	Fire which prevents a safety system from performing its design function.	A major fire has occurred which has caused massive damage to plant systems resulting in any of the other General Emergency initiating conditions. CAUTION: Consult Table 2, Page 33 for required protective action recommendations.

Possible Control Room Indicators

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ACTION

Complete actions listed in Subsection 8.4, Page 37.	Complete actions listed in Subsection 8.5, Page 51.	Complete actions listed in Subsection 8.6, Page 65.	Complete actions listed in Subsection 8.7, Page 81.
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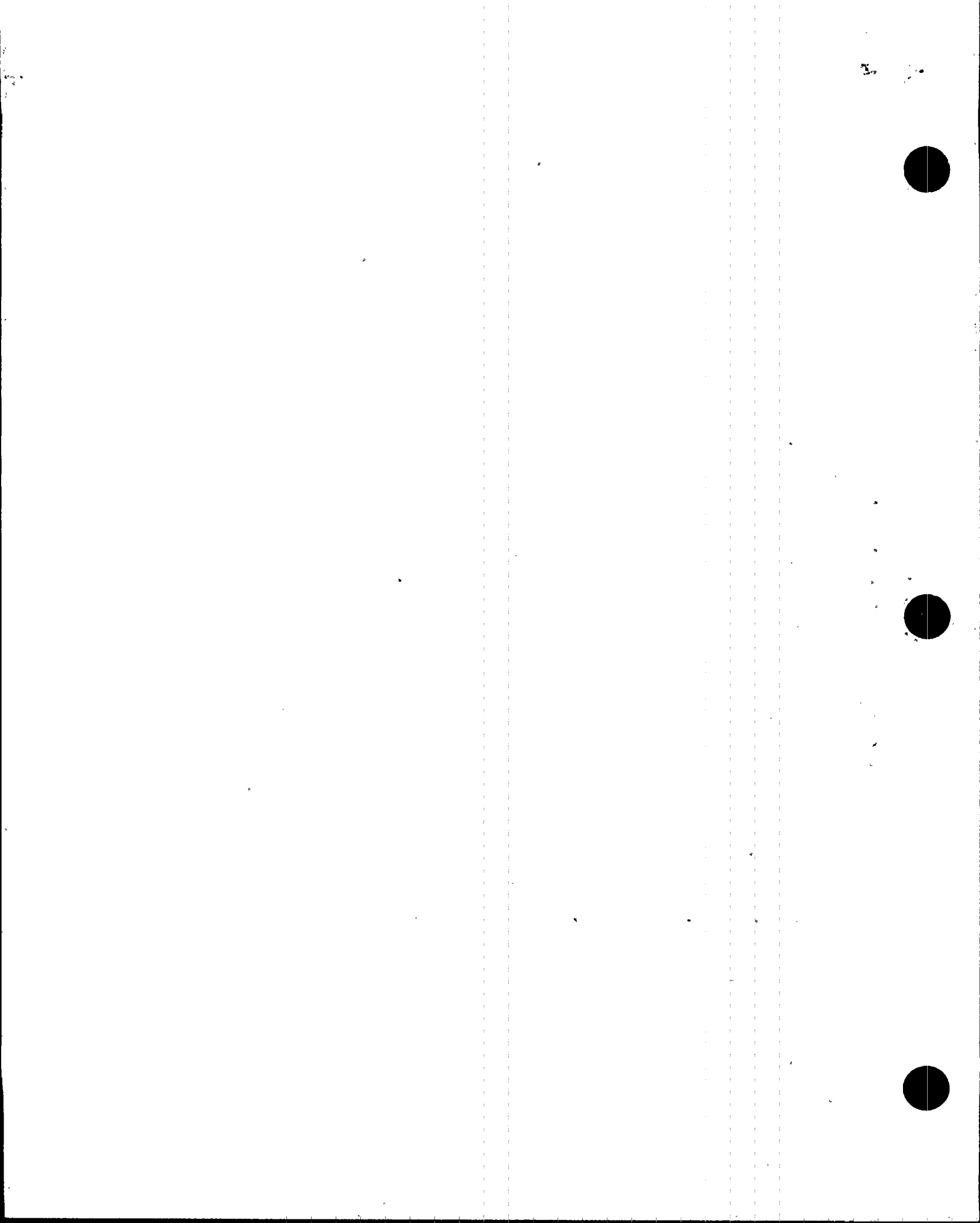
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EMERGENCY CLASSIFICATION TABLE**17. Plant Shutdown**

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
Any Plant Shutdown required by Technical Specifications in which the required shutdown mode is not reached within the Action Statement time limits.			
Possible Control Room Indicators			

ACTION

Complete actions listed in Subsection 8.4, Page 37.	Complete actions listed in Subsection 8.5, Page 51.	Complete actions listed in Subsection 8.6, Page 65.	Complete actions listed in Subsection 8.7, Page 81.
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EMERGENCY CLASSIFICATION TABLEEPIP 20101
Page 32
12/29/94**18. Other Plant Conditions Requiring Increased Awareness (Emergency Coordinator's Judgment)**

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
Emergency Coordinator's judgment that other plant conditions exist which warrant increased awareness on the part of the operating staff and/or local offsite authorities. NOTE: Activation of the Emergency Response Facilities does not require declaration of an emergency or entry into a specific emergency classification.	Emergency Coordinator's judgment that other plant conditions exist which warrant the increased awareness and activation of emergency response personnel.	Emergency Coordinator's judgment that other plant conditions exist which warrant the precautionary notification to the public near the site and the activation of FPL and offsite agency emergency response personnel. (Reflects conditions where some significant releases are likely or are occurring but where a core melt situation is not indicated based on current information)	Emergency Coordinator's judgment that other plant conditions exist which make release of large amounts of radioactivity, in a short period of time, possible (Loss of two fission product barriers with potential for loss of the third, such as, actual or imminent substantial core degradation or melting with the potential for loss of containment.) CAUTION: Consult Table 2, Page 33 for required protective action recommendations.

Possible Control Room Indicators

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ACTION

Complete actions listed in Subsection 8.4, Page 37.	Complete actions listed in Subsection 8.5, Page 51.	Complete actions listed in Subsection 8.6, Page 65.	Complete actions listed in Subsection 8.7, Page 81.
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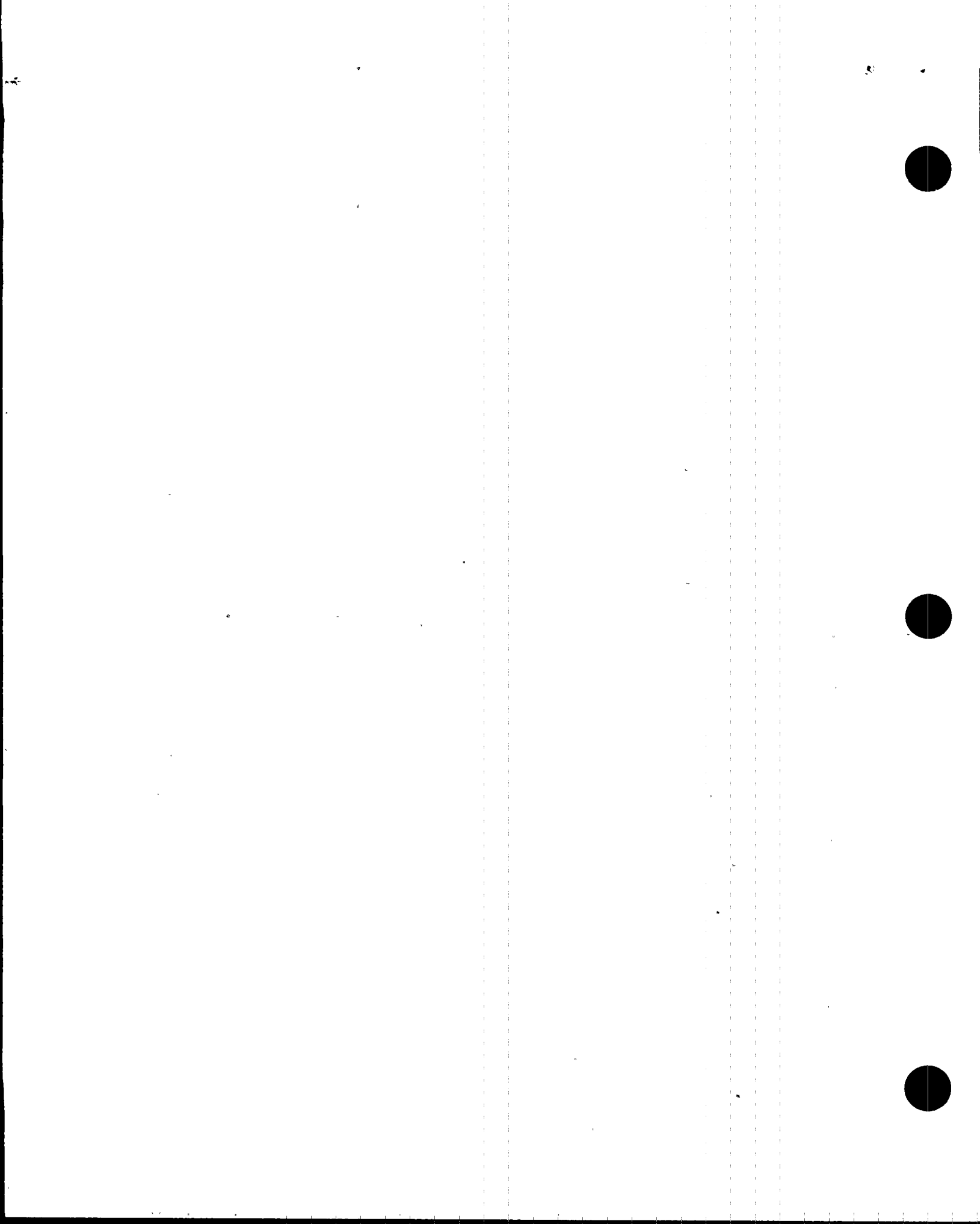
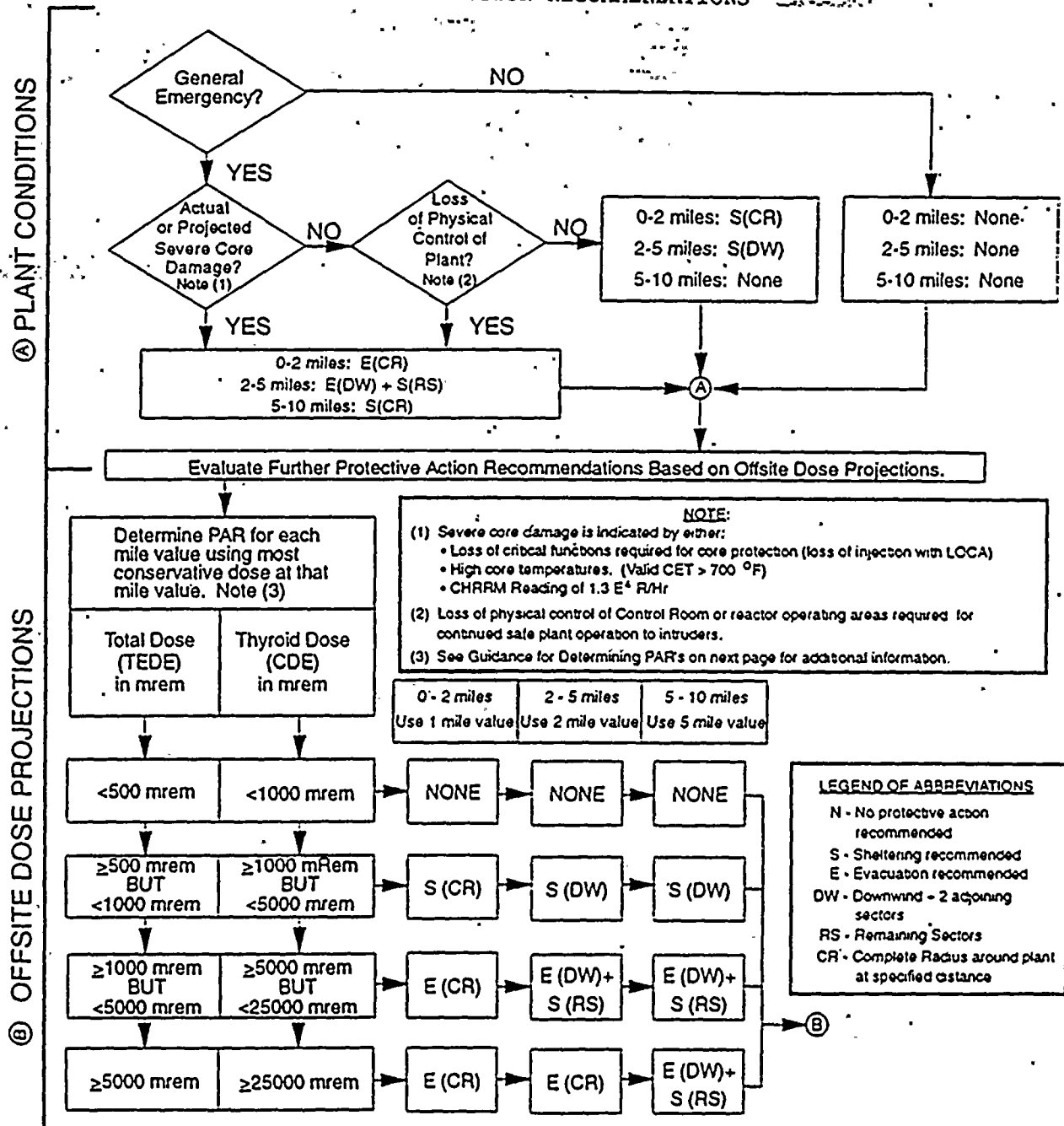


TABLE 2
PROTECTIVE ACTION RECOMMENDATIONS



SUMMARY		0 - 2 Mi.	2 - 5 Mi.	5 - 10 Mi.
①	PARs based on - Plant Conditions			
	PARs based on - Total Dose (TEDE)			
	PARs based on - Thyroid Dose (CDE)			
	Most Conservative PARs of ① & ②			

EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 34
DUTIES OF EMERGENCY COORDINATOR

TABLE 2
Guidance for Determining PARs

FPL is required to provide county and state governmental authorities with recommendations for protective action to be taken by the public during radiological emergencies at the Turkey Point Nuclear Power Plant. The responsible authorities are the State Division of Emergency Management (DEM), Dade County Office of Emergency Management, and Monroe County Office of Emergency Management.

Protective action recommendations should be made utilizing all of the available data. This includes plant status, offsite dose projections and/or field monitoring data. The more conservative recommendations should be made.

Beginning at the top left side, answer the "General Emergency" question. If "yes," continue on, following the arrows, and answering the other question blocks. Record the PARs based on Plant Conditions (A) in the Summary block at the bottom of the page. From the PAR based on Plant Condition's block continue following arrow to next box, and determine PARs based on Offsite Dose Projections (B) Total Dose (TEDE) and Thyroid Dose (CDE). In determining PARs, both plant conditions AND offsite doses must be considered for all PARs. If a release has not occurred, then proceed with issuance of PARs from the plant condition determination.

To determine PARs from offsite doses, find the blocks that correspond with the Total Dose (TEDE) and Thyroid Dose (CDE) at 1, 2, and 5 miles from the Dose Calculation Worksheet (EPIP-20126). Follow across to the column that indicates the distance where that dose was found i.e., first block for 1 mile, second block for 2 miles, or third block for 5 miles. (B) Record the PARs based on Offsite Doses in the Summary block. Once PARs are determined for all mile sectors for both Total Dose (TEDE) and Thyroid Dose (CDE) (B), then a comparison with the Plant Condition PARs (A) is performed, and the most conservative PARs for each mile sector is selected for issuance to offsite agencies.

The following example is provided:

Example: A release has occurred at the Turkey Point Plant. The wind direction is from the SSE and the projected offsite accumulated thyroid dose (CDE) is 5,000 mrem at 1 mile, 1,000 mrem at 2 miles, and less than 1,000 mrem at 5 miles. The plant is in a General Emergency with CHRRM at 100 R/hr, no core damage indicators, and no loss of physical control of the plant.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 35
DUTIES OF EMERGENCY COORDINATOR

TABLE 2
Guidance on Determining PARs

Using the PAR Worksheet, the following recommendations should be made:

"Based on our current assessment of all the information now available to use, Florida Power & Light Company recommends that you consider taking the following protective actions.

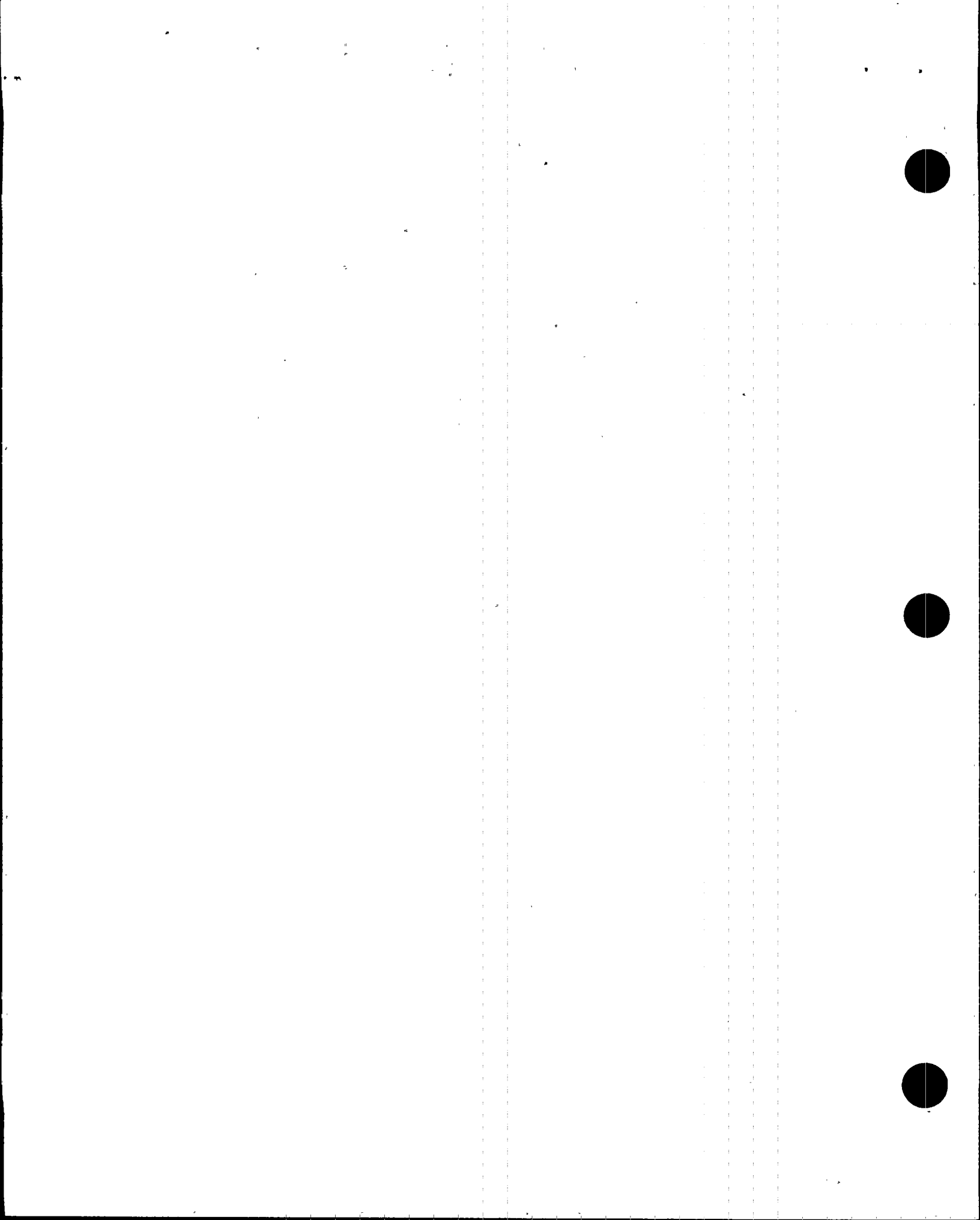
- A. EVACUATE all people between 0 and 2 miles from the plant.
- B. SHELTER all people between a 2 and 5 mile radius from the plant who are in Sectors Q, R, and A (refer to State of Florida Notification Message Form).
- C. No protective actions is recommended between a 5 and 10 mile radius from the plant."

Due to the large political and legal ramifications of these recommendations and the potential impact on FPL, the following guidelines, format and content should be used:

- (1) If the emergency has not been classified as a GENERAL EMERGENCY and the offsite doses are LESS THAN 500 mrem Total Dose (TEDE) or 1,000 mrem Thyroid Dose (CDE) at 1 mile over the projected duration of the release, no protective action is recommended. When reporting to DEM and other outside agencies who inquire, this should be reported in a manner similar to the following:

"Based on our current assessment of all the information now available to us, Florida Power & Light Company recommends that you consider taking the following protective actions - NONE. This recommendation may change in the future, but we cannot now say when it may change or to what the change may be."

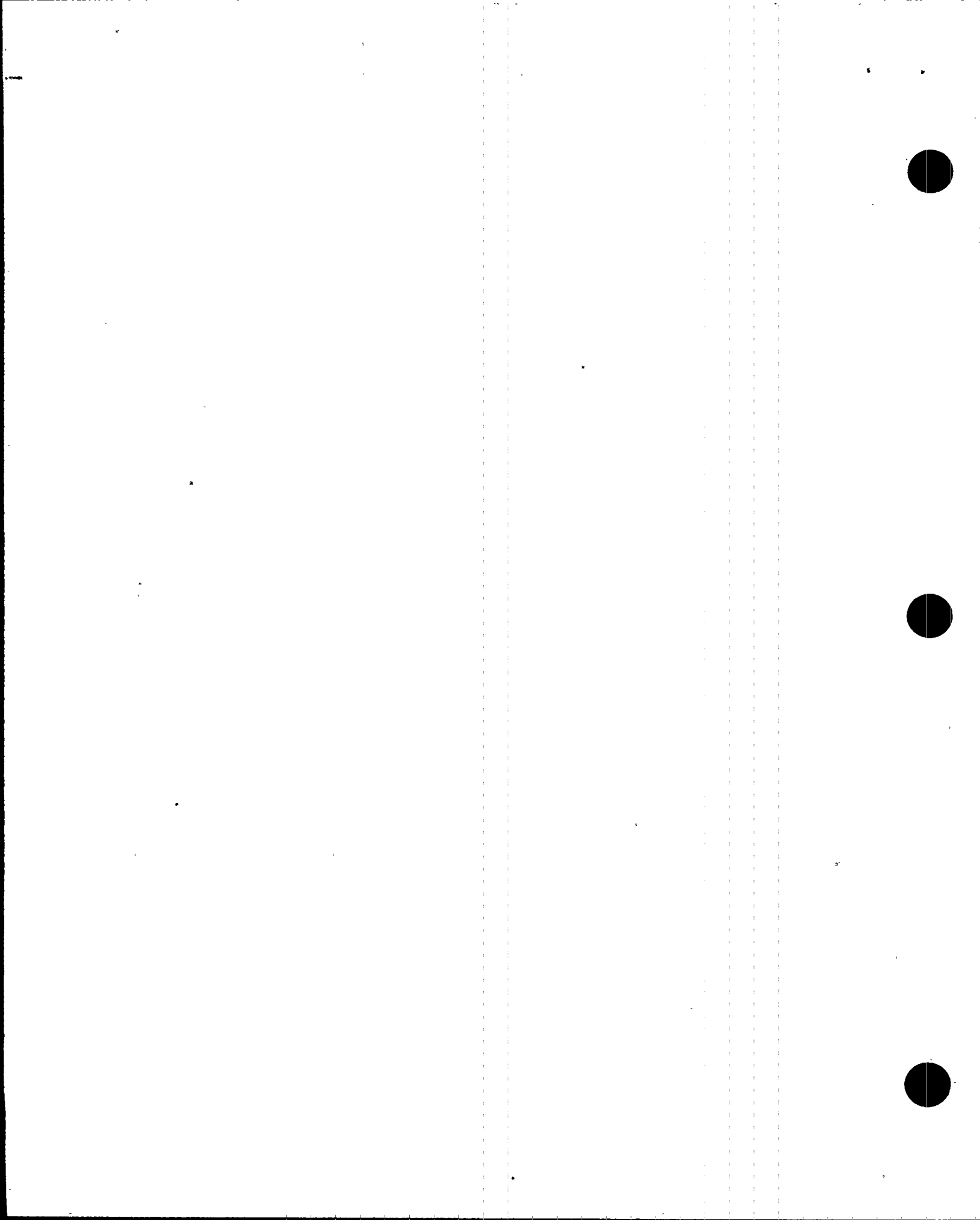
- (2) When available, both plume calculations and offsite monitoring results should be evaluated when making protective action recommendations. If significant discrepancies exist between field monitoring results and plume dispersion calculations, then the discrepancy should be reviewed, and the appropriate value should be selected in the determination of protective action recommendations.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 36
DUTIES OF EMERGENCY COORDINATOR

TABLE 2
Guidance for Determining PARS.

- (3) Thyroid Dose (CDE) Limits for PARS are based on adult thyroid. These limits are consistent with EPA Guidelines based on the following criteria:
 - a. uncertainty and potential errors associated with age specific parameters, and
 - b. level of conservatism in the adult values.
- (4) Loss of physical control of the plant to intruders shall be determined by the Emergency Coordinator based on the current operating mode requirements of the unit/plant, and the availability of equipment required for continued safe operation.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 37
DUTIES OF EMERGENCY COORDINATOR

Time

- 8.4 If an Unusual Event has been declared complete the following steps:

NOTE: Notification steps may be performed out of sequence in order to meet State of Florida and/or NRC notification time requirements.

- 8.4.1 The Emergency Log Book should be used for documenting sequence of events.

NOTE: Prescribed emergency announcements may be omitted or modified as directed by the Emergency Coordinator, or his designee, to prevent alarming intruders if security events warrant.

- 8.4.2 Inform or have Control Room personnel inform site personnel of the emergency via Plant Page System and make one of the following announcements twice using the Page Volume Boost. [Either (1) or (2)]

1. If entering into an Unusual Event:

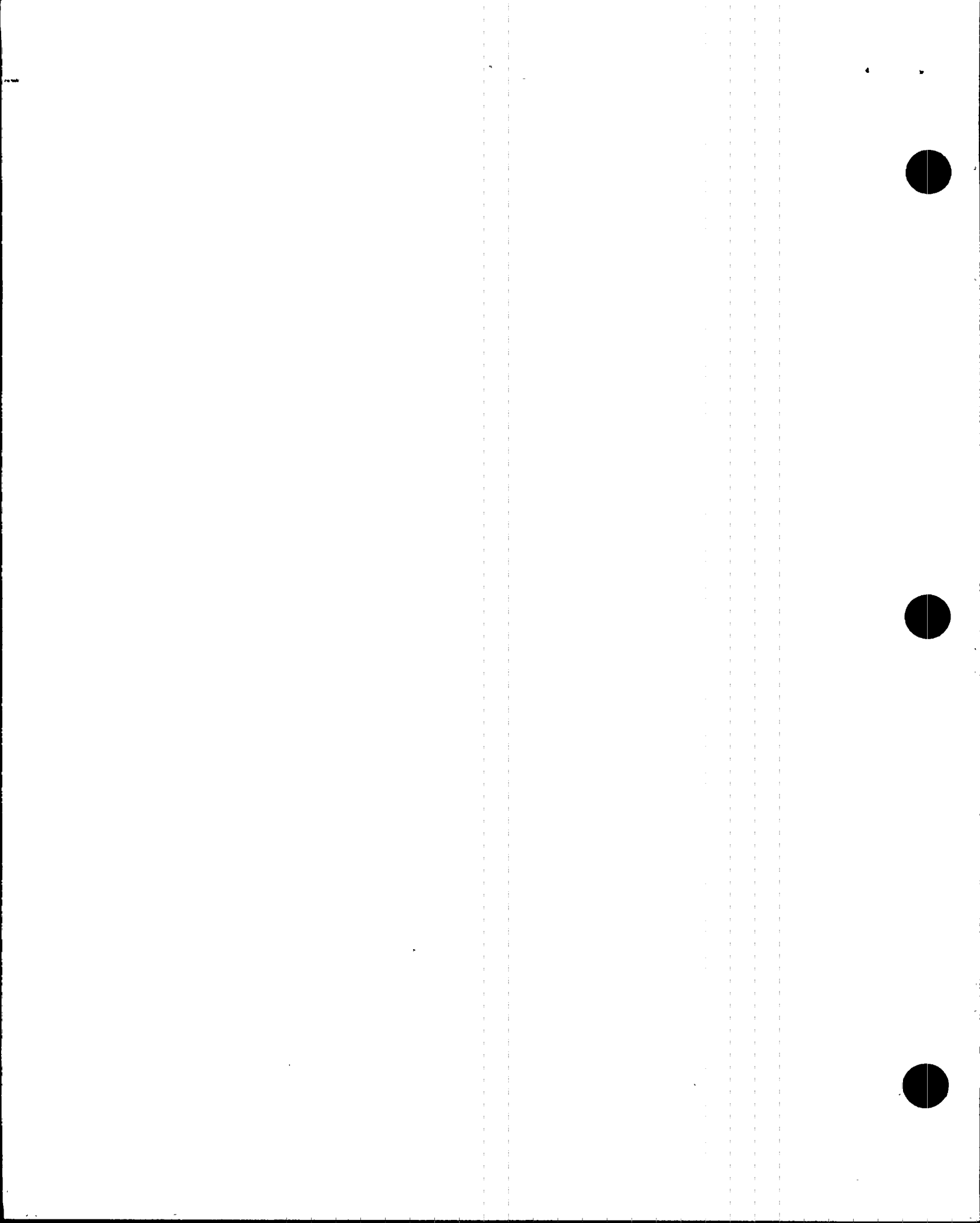
"Attention all personnel, attention all personnel: An Unusual Event has been declared on Unit (#) due to (provide a brief description of initiating event). All Emergency Response Organization members remain on standby. All other personnel continue with present duties unless further instruction is given."

2. If downgrading to an Unusual Event:

"Attention all personnel; attention all personnel: the Emergency has been downgraded to an Unusual Event."

- 8.4.3 If there is a localized emergency (fire, high radiation, toxic gas):

1. Determine assembly area for personnel evacuated from the affected area.
2. Announce type and location, instruct personnel to stand clear, and report to the assembly area.
3. Sound applicable alarm, if not previously done.
4. Announce type and location, instruct personnel to stand clear, and report to the assembly area.
5. Initiate Search and Rescue as required.



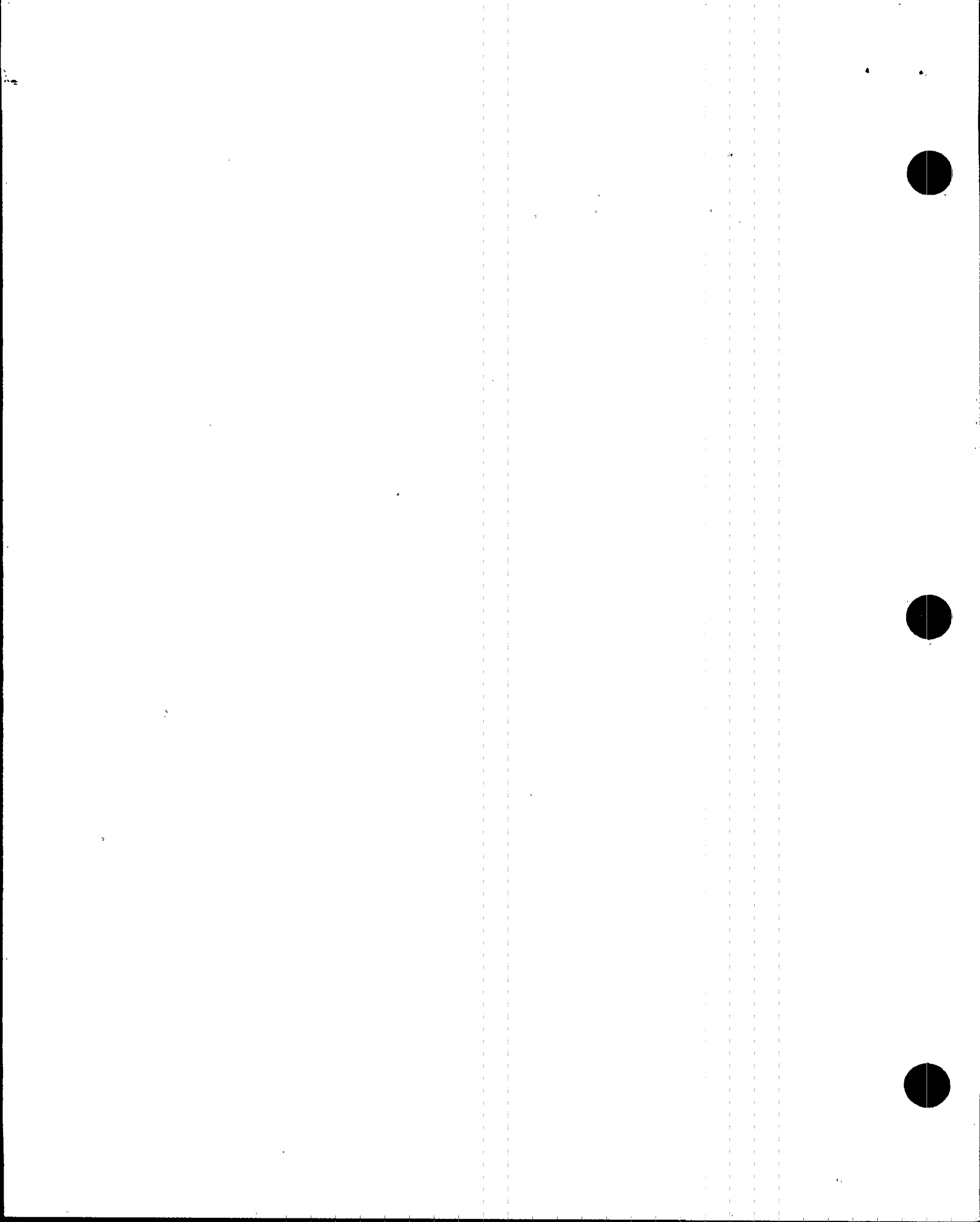
EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 38
DUTIES OF EMERGENCY COORDINATOR

Time

NOTE: If plant events (radiological or security threat considerations) warrant, alternate facilities and/or routes to these facilities may be necessary. Refer to Precautions, Section 4.0.

8.4.4 Direct the Shift Technical Advisor (STA) to implement EPIP-20104, Emergency Response Organization Notifications/Staff Augmentation.

1. If significant public interest is expected or significant technical support is required:
 - a. Identify those positions requiring activation and the desired reporting location.
 - b. Direct the STA to initiate a partial activation of the Emergency Response Organization, using the identified positions.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 39
DUTIES OF EMERGENCY COORDINATOR

Time

CAUTIONS:

Notification to the State Warning Point is required within 15 minutes of emergency classification.

Notification to the NRCOC is required to immediately follow the State notification and no later than one (1) hour.

Collection of Release Rate Data shall not delay State of Florida or NRC notification.

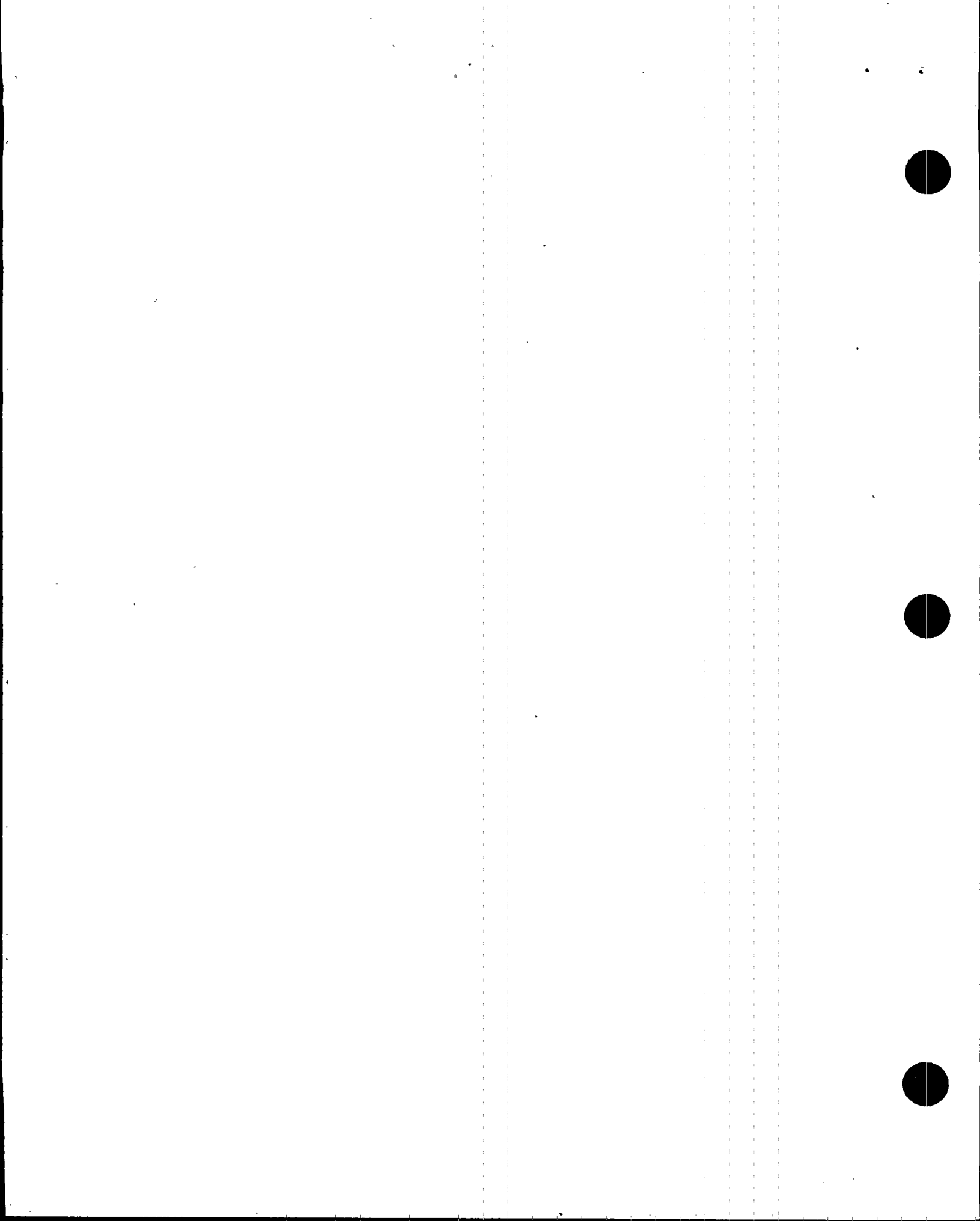
If a transitory event has occurred, notifications are still required using this procedure.

NOTE: If during the notification process, it becomes necessary to upgrade the emergency classification,

1. ensure that the State Warning Point has been notified of the emergency declaration within 15 minutes of making the initial classification,
2. stop the current notification process, and
3. proceed to the steps corresponding to the new emergency classification, including notification of the new classification to the State Warning Point.

8.4.5 If offsite (State/County) notification responsibilities ARE with the Emergency Coordinator onsite, complete the following steps:

1. Complete the State of Florida Notification Message Form.
2. The Emergency Coordinator shall initial the form prior to transmitting the information to verify Emergency Coordinator approval.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 40
DUTIES OF EMERGENCY COORDINATOR

Time

NOTE: State Warning Point may request verification call back. If requested, they will call in on the black bell phone (ringmaster) or cellular phone in the Control Room.

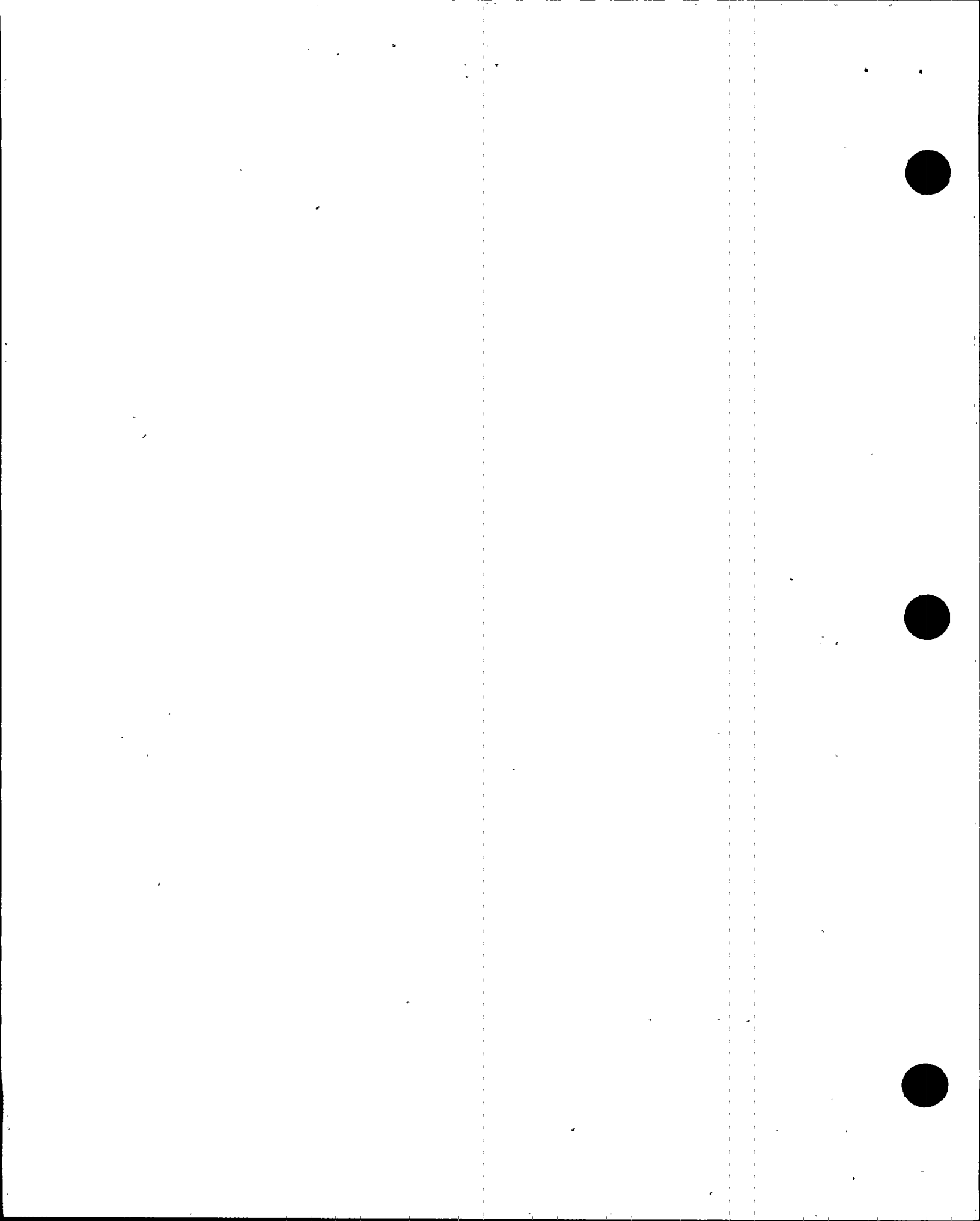
3. Within 15 minutes of classifying the Unusual Event, notify the State Warning Point in Tallahassee and relay information from the State of Florida Notification Message Form just completed via one of the following:

- a. Hot Ring Down Telephone
- b. ESATCOM
- c. Commercial Telephone (refer to ERD)
- d. Cellular Phone (refer to ERD)
- e. Local Government Radio

4. Complete an Event Notification Worksheet Form.

5. Immediately after the notification to State/County agencies of the Unusual Event, contact the NRCOC in Bethesda and relay the information from the Event Notification Worksheet just completed via one of the following:

- a. ENS
- b. Commercial Telephone (refer to ERD)
- c. Cellular Telephone (refer to ERD)



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 41
DUTIES OF EMERGENCY COORDINATOR

STATE OF FLORIDA NOTIFICATION MESSAGE FORM FOR NUCLEAR POWER PLANTS
☐ **THIS IS A DRILL** ☐ **THIS IS AN ACTUAL EMERGENCY**

1. A. Time/Date _____ B. Reported by (Name/Title) _____
 C. Message Number _____ D. From: ☐ Control Room ☐ TSC ☐ EOF
2. SITE ☐ CRYSTAL RIVER UNIT 3 ☐ ST LUCIE UNIT 1 ☐ TURKEY POINT UNIT 3
☐ ST LUCIE UNIT 2 ☐ TURKEY POINT UNIT 4

3. ACCIDENT CLASSIFICATION

- ☐ NOTIFICATION OF UNUSUAL EVENT
☐ ALERT

- ☐ SITE AREA EMERGENCY
☐ GENERAL EMERGENCY

4. CURRENT EMERGENCY DECLARATION: TIME: _____ DATE: _____

5. INCIDENT DESCRIPTION OR UPDATE _____

6. INJURIES A. ☐ CONTAMINATED _____ B. ☐ NON-CONTAMINATED _____

7. RELEASE STATUS:

- A. ☐ No Release (Go to Item 11)
 B. ☐ Potential (Possible) release

- C. ☐ A Release is occurring -- expected duration _____
 D. ☐ A Release occurred, but stopped -- duration _____

8. * RELEASE RATE A. ☐ NOBLE GASES: _____ Curies per second ☐ Measured ☐ Default
 B. ☐ IODINES: _____ Curies per second ☐ Measured ☐ Default
 C. ☐ Release within normal operating limits.

9. * TYPE OF RELEASE IS (Blanks are for specific nuclides if available, i.e., I-131, Cs-137, etc.)

- A. ☐ Radioactive gases: _____ C. ☐ Radioactive liquids: _____
 B. ☐ Radioactive airborne particulates: _____ D. ☐ Other: _____

10. * PROJECTED OFFSITE DOSE RATE

DISTANCE

1 MILE (Site Boundary)
 2 MILES
 5 MILES
 10 MILES

THYROID DOSE RATE (CDE)

_____ mrem/hr
 _____ mrem/hr
 _____ mrem/hr
 _____ mrem/hr

TOTAL DOSE RATE (TEDE)

_____ mrem/hr
 _____ mrem/hr
 _____ mrem/hr
 _____ mrem/hr

11. METEOROLOGICAL DATA

- A. Wind direction (from) _____ degrees. C. Wind speed _____ MPH
 B. Sectors affected _____ D. Stability class _____

12. UTILITY RECOMMENDED PROTECTIVE ACTIONS:

- A. ☐ No recommendations at this time.

- B. ☐ Notify the public to take the following protective actions:

(Note: If message refers to 360° radius, use the word "ALL" under sectors.)

MILES

NO ACTION

SHELTER/SECTORS

EVACUATE/SECTORS

0--2

2--5

5--10

13. HAS EVENT BEEN TERMINATED? A. ☐ NO B. ☐ YES: TIME _____ DATE _____

RM/EC Approval: _____ Time: _____ Date: _____

14. MESSAGE RECEIVED BY: Name _____ Time: _____ Date: _____

* This information may not be available on initial notifications.

EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 42
DUTIES OF EMERGENCY COORDINATOR

SECTOR REFERENCE:

The chart below can be used to determine sectors affected by a radiological release, through comparison with wind direction from the meteorological recorders in the Control Room.

If the wind direction is directly on the edge of two sectors (e.g., 11°, 33°, 56°, etc.), and additional sector should be added to the protective action recommendations. For example, if the wind direction is from 78°, then the affected sectors for PAR's should be L, M, N, and P.

Sector Information:

WIND SECTOR	WIND FROM	DEGREES	WIND TOWARD	SECTORS AFFECTED
[A]	N	348-11	S	H J K
[B]	NNE	11-33	SSW	J K L
[C]	NE	33-56	SW	K L M
[D]	ENE	56-78	WSW	L M N
[E]	E	78-101	W	M N P
[F]	ESE	101-123	WNW	N P Q
[G]	SE	123-146	NW	P Q R
[H]	SSE	146-168	NNW	Q R A
[J]	S	168-191	N	R A B
[K]	SSW	191-213	NNE	A B C
[L]	SW	213-236	NE	B C D
[M]	WSW	236-258	ENE	C D E
[N]	W	258-281	E	D E F
[P]	WNW	281-303	ESE	E F G
[Q]	NW	303-326	SE	F G H
[R]	NNW	326-348	SSE	G H J

STABILITY CLASSIFICATION REFERENCE:

The below chart can be used to determine atmospheric stability classification for notification to the State of Florida. Primary method is from ΔT via the South Dade (60 meter) tower. Backup method is from Sigma Theta via the Ten Meter Tower. If neither meteorological tower is available, Stability Classification shall be determined using data from National Weather Service (See EPIP-20126, Off-Site Dose Calculations).

CLASSIFICATION OF ATMOSPHERIC STABILITY

Stability Classification	Pasquill Categories	Primary Delta T (°F)	Backup Sigma Theta Range (Degrees)
Extremely unstable	A	$\Delta T \leq -1.7$	22.5 or more
Moderately unstable	B	$-1.7 < \Delta T \leq -1.5$	17.5 to 22.4
Slightly unstable	C	$-1.5 < \Delta T \leq -1.4$	12.5 to 17.4
Neutral	D	$-1.4 < \Delta T \leq -0.5$	7.5 to 12.4
Slightly stable	E	$-0.5 < \Delta T \leq 1.4$	3.8 to 7.4
Moderately stable	F	$1.4 < \Delta T \leq 3.6$	2.1 to 3.7
Extremely stable	G	$3.6 < \Delta T$	2.0 or less

Meteorological information needed to fill out Section II on the Notification Message Form is available from the Dose Calculation Worksheet (EPIP-20126). The Worksheet shall be filled out by Chemistry and given to the Emergency Coordinator.



*14:6/ms/dt/ev

EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 44
DUTIES OF EMERGENCY COORDINATOR

NRC FORM 361

ADDITIONAL INFORMATION USNRC OPERATIONS CENTER

RADIOLOGICAL RELEASES CHECK OR FILL IN APPLICABLE ITEMS <i>(specific details/explanations should be covered in event description)</i>						
<input type="checkbox"/> LIQUID RELEASE	<input type="checkbox"/> GASEOUS RELEASE	<input type="checkbox"/> UNPLANNED RELEASE	<input type="checkbox"/> PLANNED RELEASE	<input type="checkbox"/> ONGOING	<input type="checkbox"/> TERMINATED	
<input type="checkbox"/> MONITORED	<input type="checkbox"/> UNMONITORED	<input type="checkbox"/> OFFSITE RELEASE	<input type="checkbox"/> T.S. EXCEEDED	<input type="checkbox"/> RM ALARMS	<input type="checkbox"/> AREAS EVACUATED	
<input type="checkbox"/> PERSONNEL EXPOSED OR CONTAMINATED		<input type="checkbox"/> OFFSITE PROTECTIVE ACTIONS RECOMMENDED		<input type="checkbox"/> *State release path in description		

	Release Rate (Ci/sec)	% T.S. LIMIT	HOO GUIDE	Total Activity (Ci)	% T.S. LIMIT	HOO GUIDE
Noble Gas			0.1 Ci/sec			1000 Ci
Iodine			10 uCi/sec			0.01 Ci
Particulate			1 uCi/sec			1 mCi
Liquid (excluding tritium & dissolved noble gases)			10 uCi/min			0.1Ci
Liquid (tritium)			0.2 Ci/min			5 Ci
Total Activity						

	PLANT STACK	CONDENSER/AIR EJECTOR	MAIN STEAM LINE	SG BLOWDOWN	OTHER
RAD MONITOR READINGS:					
ALARM SETPOINTS:					
% T.S. LIMIT (If applicable)					

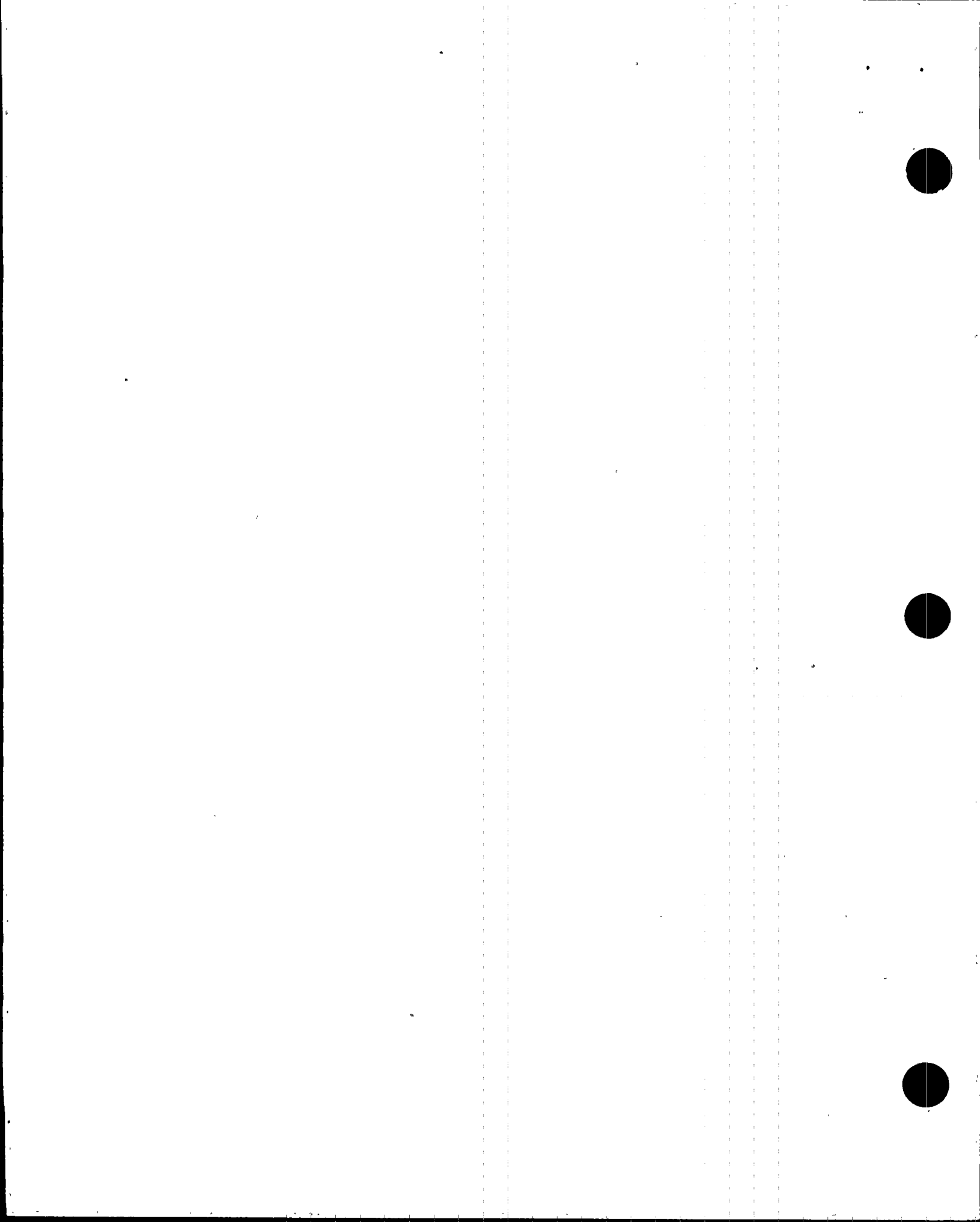
RCS OR SG TUBE LEAKS CHECK OR FILL IN APPLICABLE ITEMS: <i>(specific details/explanations should be covered in event description)</i>			
LOCATION OF THE LEAK (e.g., SG #, valve, pipe, etc):			
LEAK RATE:	UNITS: gpm/gpd	T.S. Limits:	SUDDEN OR LONG TERM DEVELOPMENT:
LEAK START DATE:	TIME:	COOLANT ACTIVITY & UNITS: PRIMARY -	SECONDARY -
LIST OF SAFETY RELATED EQUIPMENT NOT OPERATIONAL:			
<p align="center">EVENT DESCRIPTION <i>(Continued from front)</i></p>			



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 45
DUTIES OF EMERGENCY COORDINATOR

Time

- 8.4.6 Notify the Nuclear Division Duty Officer (NDDO). If on duty NDDO cannot be reached, notify any NDDO, or ECO. See the NDDO schedule or the Emergency Response Directory for telephone numbers. If a partial activation of the Corporate Emergency Response Organization is desired, indicate this at this time, and relay applicable information from the State of Florida Notification Message Form.
- 8.4.7 If continued direction of the emergency response activities adversely affects Control Room activities, consider turnover of EC duties to a designated member of the Plant Management staff.
- 8.4.8 If EC duties have been assumed by a designated member of the Plant Management staff, contact affected NRC, State and Local authorities to establish communication links and determine off-site support requirements.
- 8.4.9 Reassess plant conditions using Table 1 periodically.
- 8.4.10 If upgrading Emergency Class, proceed to the applicable section of this procedure per Table 1.
- 8.4.11 Every hour (unless state and local agencies agree less frequent updates are required), upon termination, or as conditions change, provide notifications to the following if notification responsibilities are with the Emergency Coordinator Onsite:
1. Complete a State of Florida Notification Message Form.
 2. The Emergency Coordinator shall initial the form prior to transmitting the information to verify Emergency Coordinator approval.
 3. Notify the following of the new information.
 - a. State Warning Point
 - b. NDDO
 - c. Duty Call Supervisor
 4. Complete an Event Notification Worksheet Form
 5. Notify the NRCOC of the new information.
 - a. ENS
 - b. Commercial telephone (alternate) (see Emergency Response Directory)



8/1/96

STATE OF FLORIDA NOTIFICATION MESSAGE FORM FOR NUCLEAR POWER PLANTS
☐ THIS IS A DRILL ☐ THIS IS AN ACTUAL EMERGENCY

1. A. Time/Date _____ B. Reported by (Name/Title) _____
C. Message Number _____ D. From: ☐ Control Room ☐ TSC ☐ EOF

2. SITE ☐ CRYSTAL RIVER UNIT 3 ☐ ST LUCIE UNIT 1 ☐ TURKEY POINT UNIT 3
☐ ST LUCIE UNIT 2 ☐ TURKEY POINT UNIT 4

3. ACCIDENT CLASSIFICATION

☐ NOTIFICATION OF UNUSUAL EVENT ☐ SITE AREA EMERGENCY
☐ ALERT ☐ GENERAL EMERGENCY

4. CURRENT EMERGENCY DECLARATION: TIME: _____ DATE: _____

5. INCIDENT DESCRIPTION OR UPDATE _____

6. INJURIES A. ☐ CONTAMINATED _____ B. ☐ NON-CONTAMINATED _____

7. RELEASE STATUS:

A. ☐ No Release (Go to Item 11) C. ☐ A Release is occurring --expected duration _____
B. ☐ Potential (Possible) release D. ☐ A Release occurred, but stopped-- duration _____

8. *RELEASE RATE A. ☐ NOBLE GASES: _____ Curies per second ☐ Measured ☐ Default
B. ☐ IODINES: _____ Curies per second ☐ Measured ☐ Default
C. ☐ Release within normal operating limits.

9. *TYPE OF RELEASE IS (Blanks are for specific nuclides if available, i.e., I-131, Cs-137, etc.)

A. ☐ Radioactive gases _____ C. ☐ Radioactive liquids _____
B. ☐ Radioactive airborne particulates _____ D. ☐ Other _____

10. *PROJECTED OFFSITE DOSE RATE

<u>DISTANCE</u>	<u>THYROID DOSE RATE (CDE)</u>	<u>TOTAL DOSE RATE (TEDE)</u>
1 MILE (Site Boundary)	_____ mrem/hr	_____ mrem/hr
2 MILES	_____ mrem/hr	_____ mrem/hr
5 MILES	_____ mrem/hr	_____ mrem/hr
10 MILES	_____ mrem/hr	_____ mrem/hr

11. METEOROLOGICAL DATA

A. Wind direction (from) _____ degrees. C. Wind speed _____ MPH
B. Sectors affected _____ D. Stability class _____

12. UTILITY RECOMMENDED PROTECTIVE ACTIONS:

A. ☐ No recommendations at this time.
B. ☐ Notify the public to take the following protective actions:
(Note: If message refers to 360° radius, use the word "ALL" under sectors.)

<u>MILES</u>	<u>NO ACTION</u>	<u>SHELTER/SECTORS</u>	<u>EVACUATE/SECTORS</u>
0--2	_____	_____	_____
2--5	_____	_____	_____
5--10	_____	_____	_____

13. HAS EVENT BEEN TERMINATED?: A. ☐ NO B. ☐ YES: TIME _____ DATE _____

RM/EC Approval: _____ Time: _____ Date: _____

14. MESSAGE RECEIVED BY: Name _____ Time: _____ Date: _____

* This information may not be available on initial notifications.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 47
DUTIES OF EMERGENCY COORDINATOR

SECTOR REFERENCE:

The chart below can be used to determine sectors affected by a radiological release, through comparison with wind direction from the meteorological recorders in the Control Room.

If the wind direction is directly on the edge of two sectors (e.g., 11°, 33°, 56°, etc.), and additional sector should be added to the protective action recommendations. For example, if the wind direction is from 78°, then the affected sectors for PAR's should be L, M, N, and P.

Sector Information:

WIND SECTOR	WIND FROM	DEGREES	WIND TOWARD	SECTORS AFFECTED
[A]	N	348-11	S	H J K
[B]	NNE	11-33	SSW	J K L
[C]	NE	33-56	SW	K L M
[D]	ENE	56-78	WSW	L M N
[E]	E	78-101	W	M N P
[F]	ESE	101-123	WNW	N P Q
[G]	SE	123-146	NW	P Q R
[H]	SSE	146-168	NNW	Q R A
[J]	S	168-191	N	R A B
[K]	SSW	191-213	NNE	A B C
[L]	SW	213-236	NE	B C D
[M]	WSW	236-258	ENE	C D E
[N]	W	258-281	E	D E F
[P]	WNW	281-303	ESE	E F G
[Q]	NW	303-326	SE	F G H
[R]	NNW	326-348	SSE	G H J

STABILITY CLASSIFICATION REFERENCE:

The below chart can be used to determine atmospheric stability classification for notification to the State of Florida. Primary method is from ΔT via the South Dade (60 meter) tower. Backup method is from Sigma Theta via the Ten Meter Tower. If neither meteorological tower is available, Stability Classification shall be determined using data from National Weather Service (See EPIP-20126, Off-Site Dose Calculations).

CLASSIFICATION OF ATMOSPHERIC STABILITY

Stability Classification	Pasquill Categories	Primary Delta T (°F)	Backup Sigma Theta Range (Degrees)
Extremely unstable	A	$\Delta T \leq -1.7$	22.5 or more
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Slightly unstable	C	$-1.5 < \Delta T \leq -1.4$	12.5 to 17.4
Neutral	D	$-1.4 < \Delta T \leq -0.5$	7.5 to 12.4
Slightly stable	E	$-0.5 < \Delta T \leq 1.4$	3.8 to 7.4
Moderately stable	F	$1.4 < \Delta T \leq 3.6$	2.1 to 3.7
Extremely stable	G	$3.6 < \Delta T$	2.0 or less

Meteorological information needed to fill out Section II on the Notification Message Form is available from the Dose Calculation Worksheet (EPIP-20126). The Worksheet shall be filled out by Chemistry and given to the Emergency Coordinator.

EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 48
DUTIES OF EMERGENCY COORDINATOR

NRC FORM 361				US NUCLEAR REGULATORY COMMISSION OPERATIONS CENTER			
EVENT NOTIFICATION WORKSHEET							
NOTIFICATION TIME		FACILITY OR ORGANIZATION		UNIT	CALLERS NAME		CALL BACK: ENS _____ OR () _____
EVENT TIME & ZONE		EVENT DATE / /		1-Hr Non-Emergency 10 CFR 50.72 (b) (1)		(v) Lost Offsite Comms	
						(vi) Fire	
POWER MODE BEFORE		POWER MODE AFTER		(ii) (A) TS Required S/D		(vi) Toxic Gas	
				(ii) (B) TS Deviation		(vi) Rad Release	
Event Classifications		(iii) Degraded Condition		(vi) Oth Hampering Safe Op		4-Hr Non-Emergency 10 CFR 50.72 (b) (2)	
		(ii) (A) Unanalyzed Condition					
		(ii) (B) Outside Design Basis					
		(ii) (C) Not Covered by OPs/EOPs		(i) Degrade While S/D			
GENERAL EMERGENCY		(iii) Earthquake		(ii) RPS Actuation (Scram)			
SITE AREA EMERGENCY		(iii) Flood		(ii) ESF Actuation			
ALERT		(iii) Hurricane		(iii) (A) Safe S/D Capability			
UNUSUAL EVENT		(iii) Ice/Hail		(iii) (B) Rhr Capability			
50.72 NON-EMERGENCY		(iii) Lighting		(iii) (C) Control of Rad Release			
PHYSICAL SECURITY (73.71)		(iii) Tornado		(iii) (D) Accident Mitigation			
TRANSPORTATION		(iii) Other Natural Phenomenon		(iv) (A) Air Release >2X App B			
20.403 MATERIAL/EXPOSURE		(iv) ECCS Discharge to RCS		(iv) (B) Liq Release >2X App B			
OTHER		(v) Lost ENS		(v) Offsite Medical			
		(v) Lost Emerg. Assessment		(vi) Offsite Notification			
<p>DESCRIPTION</p>							
Include: Systems affected, actuations & their initiating signals, causes, effect of event on plant, actions taken or planned, etc.							
NOTIFICATIONS NRC RESIDENT	YES	NO	WILL BE	ANYTHING UNUSUAL OR NOT UNDERSTOOD?		YES (Explain above)	NO
STATE(s)				DID ALL SYSTEMS FUNCTION AS REQUIRED?		YES	NO (Explain above)
LOCAL							
OTHER GOV AGENCIES				MODE OF OPERATION UNTIL CORRECTED	ESTIMATE FOR RESTART DATE:	ADDITION INFO ON BACK?	



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 49
DUTIES OF EMERGENCY COORDINATOR

NRC FORM 361

ADDITIONAL INFORMATION

USNRC OPERATIONS CENTER

RADIOLOGICAL RELEASES CHECK OR FILL IN APPLICABLE ITEMS *(specific details/explanations should be covered in event description)*

LIQUID RELEASE	GASEOUS RELEASE	UNPLANNED RELEASE	PLANNED RELEASE	ONGOING	TERMINATED
MONITORED	UNMONITORED	OFFSITE RELEASE	T.S. EXCEEDED	RM ALARMS	AREAS EVACUATED
PERSONNEL EXPOSED OR CONTAMINATED	OFFSITE PROTECTIVE ACTIONS RECOMMENDED			*State release path in description	

	Release Rate (Ci/sec)	% T.S. LIMIT	HOO GUIDE	Total Activity (Ci)	% T.S. LIMIT	HOO GUIDE.
Noble Gas			0.1 Ci/sec			1000 Ci
Iodine			10 uCi/sec			0.01 Ci
Particulate			1 uCi/sec			1 mCi
Liquid (excluding tritium & dissolved noble gases)			10 uCi/min			0.1 Ci
Liquid (tritium)			0.2 Ci/min			5 Ci
Total Activity						

	PLANT STACK	CONDENSER/AIR EJECTOR	MAIN STEAM LINE	SG BLOWDOWN	OTHER
RAD MONITOR READINGS:					
ALARM SETPOINTS:					
% T.S. LIMIT (if applicable)					

RCS OR SG TUBE LEAKS CHECK OR FILL IN APPLICABLE ITEMS: *(specific details/explanations should be covered in event description)*
LOCATION OF THE LEAK (e.g., SG #, valve, pipe, etc):

LEAK RATE:	UNITS: gpm/gpd	T.S. Limits:	SUDDEN OR LONG TERM DEVELOPMENT:
LEAK START DATE:	TIME:	COOLANT ACTIVITY & UNITS: PRIMARY -	SECONDARY -

LIST OF SAFETY RELATED EQUIPMENT NOT OPERATIONAL:

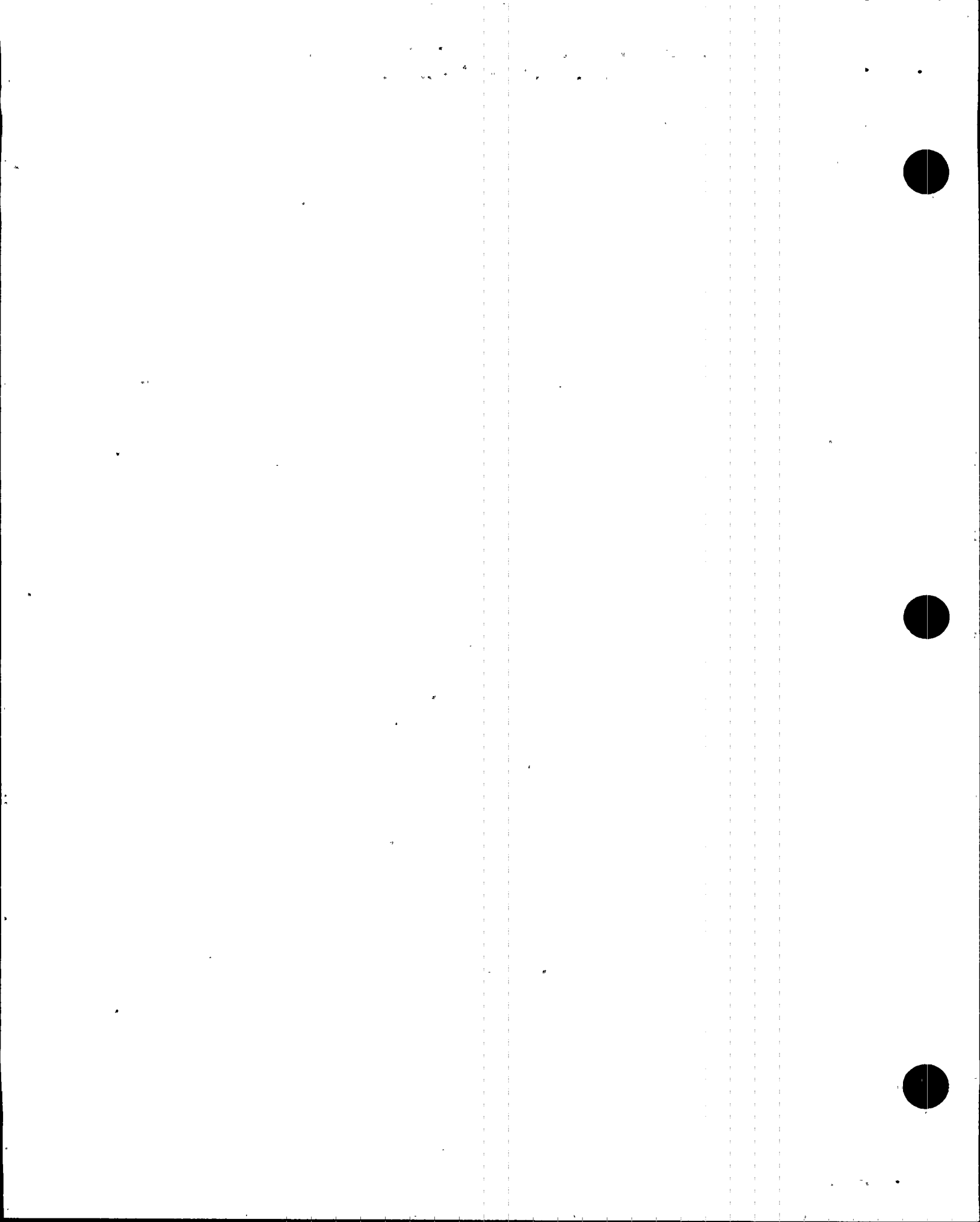
EVENT DESCRIPTION *(Continued from front)*

EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 50
DUTIES OF EMERGENCY COORDINATOR

Time

8.4.12 Using Attachment 1, De-Escalation Guidelines, determine if the emergency can be terminated.

8.4.13 Upon termination notify, or have the Control Room notify, plant personnel via cross connected Plant Page system by making the following announcement: "Attention all personnel; attention all personnel: The emergency situation has been terminated. I repeat, the emergency situation has been terminated."



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 51
DUTIES OF EMERGENCY COORDINATOR

Time

8.5 If an Alert has been declared perform the following steps:

NOTE: Notification steps may be performed out of sequence in order to meet State of Florida and/or NRC notification time requirements.

8.5.1 The Emergency Log Book should be used to document the sequence of events.

CAUTION: The Emergency Coordinator shall use good judgment prior to releasing contractors from the site and clearing those owner controlled areas outside the protected area. Such conditions as security events, release status, release duration, plant conditions, and meteorological conditions should be evaluated prior to moving personnel.

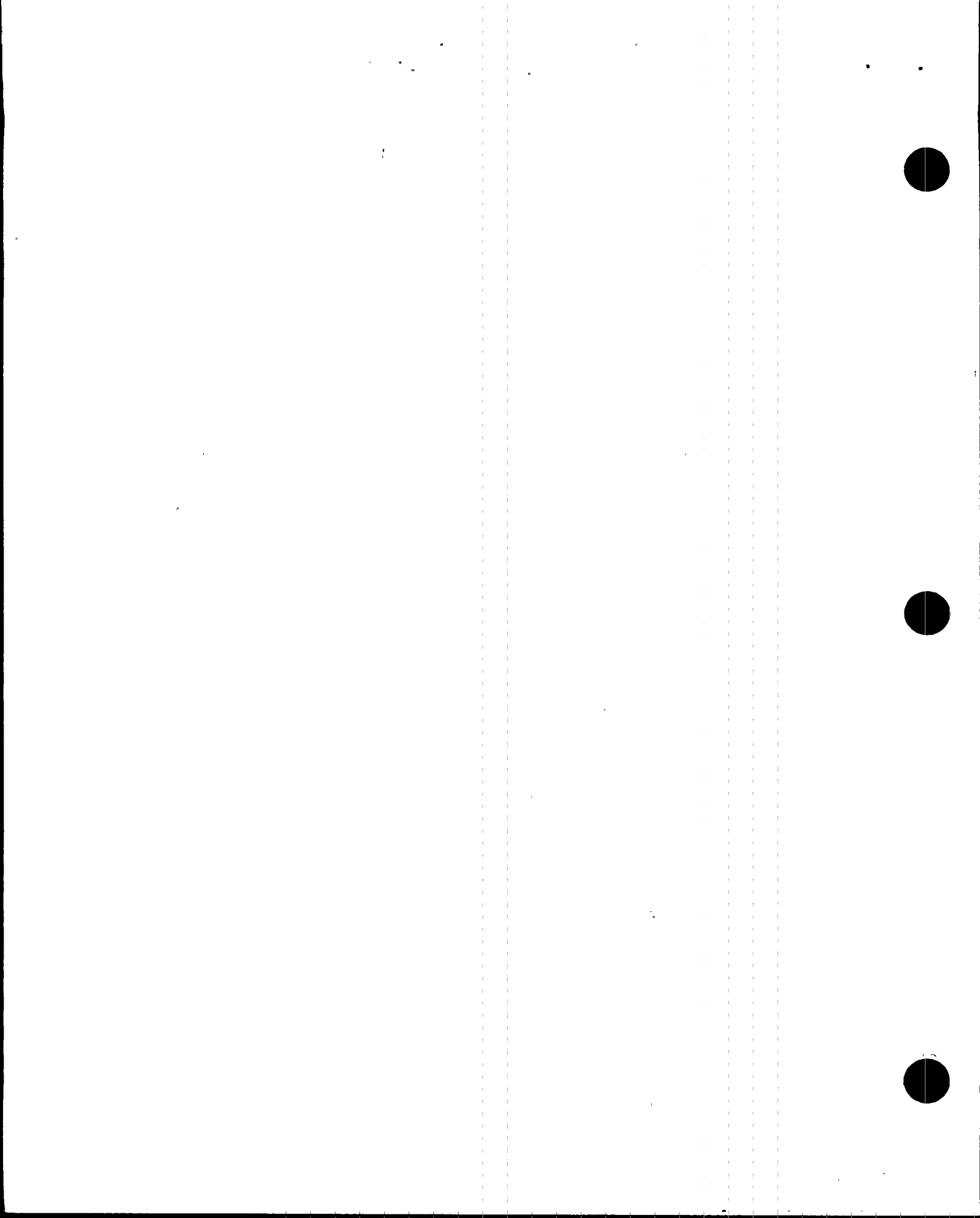
8.5.2 Determine the need to dismiss non-essential contract personnel from the site and clear those areas outside the Protected area.

8.5.3 If a precautionary clearing of personnel outside of the Protected Area is required:

1. Inform Security to clear personnel from the following areas and implement applicable sections of Security Force Instruction (SFI) 6307.

- a. Girl Scout Camp
- b. Red Barn Area
- c. Beach/Boat Ramp Area
- d. Wellness Center
- e. Switchyard
- f. Barge Canal
- g. Air Force Sea Survival School area
- h. Trailer Areas and other work areas
- i. Land Utilization

2. Contact the Watch Engineer of Units 1 and 2 and inform them of the precautionary clearing of personnel.



Time

NOTE: Prescribed emergency announcements may be omitted or modified as directed by the Emergency Coordinator, or his designee, to prevent alarming intruders if security events warrant.

8.5.4 Inform, or have Control Room personnel inform site personnel of the emergency via the Plant Page System using the Page Volume Boost [Either (1) or (2)]:

1. If ENTERING into an Alert:

a. Make the following announcement:

"Attention all personnel; attention all personnel: An Alert has been declared on Unit (#) due to (provide a brief description of initiating event). All Emergency Response Organization members report to your designated Emergency Response Facility. All other personnel report to your normal work location."

[The following announcement is OPTIONAL per 8.5.2]

"All non-essential contract personnel are dismissed for the day."

b. Sound the Emergency Plan Activation alarm.

c. Repeat the announcement:

CAUTION: RM approval is required prior to downgrading from a |
Site Area Emergency or General Emergency. |

2. If DOWNGRADING to an Alert make the following announcement twice:

"Attention all personnel; attention all personnel: The Emergency has been downgraded to an Alert."

8.5.5. If there is a localized emergency (fire, high radiation, toxic gas):

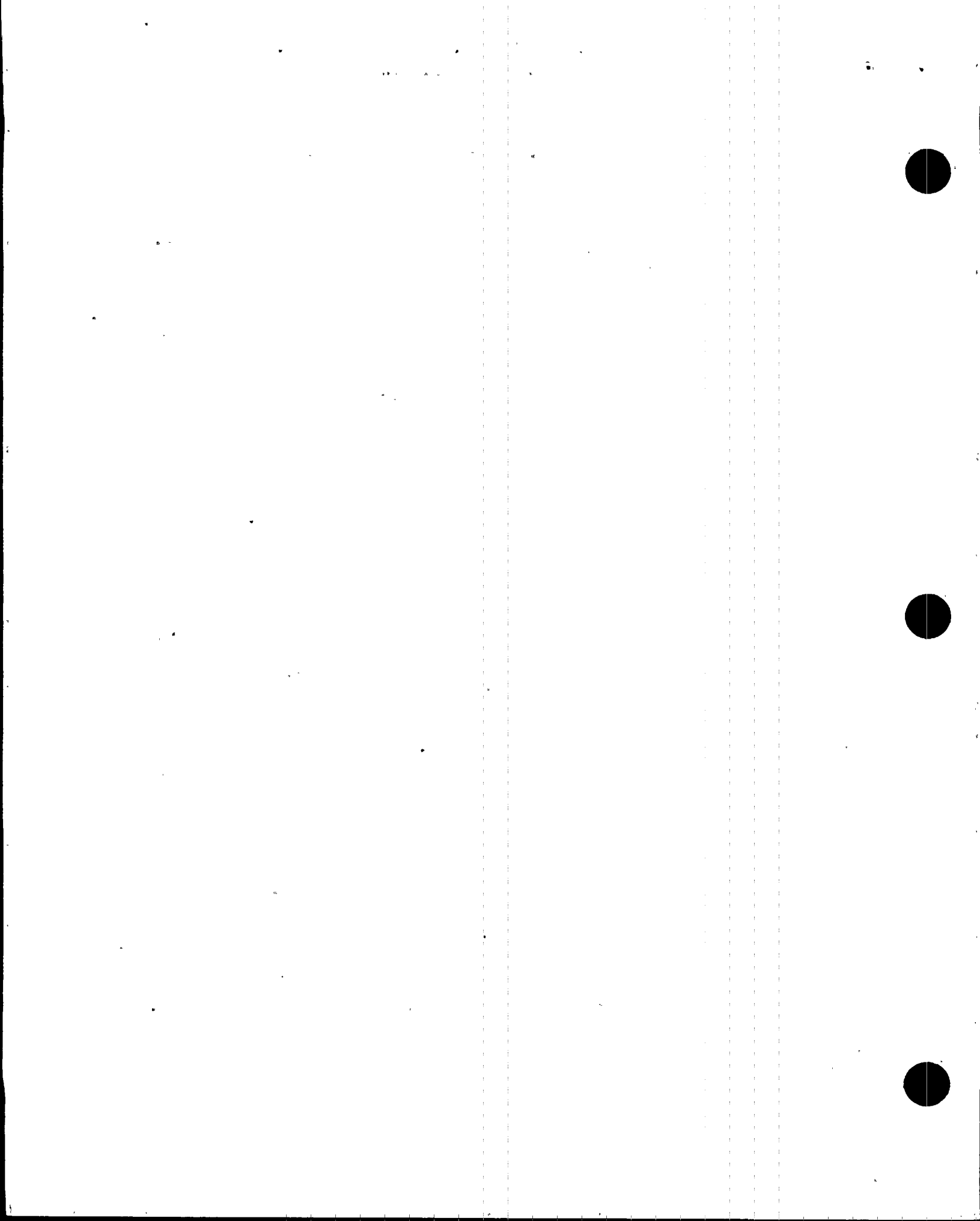
1. Determine an assembly area for personnel evacuated from the affected area.

2. Announce type and location, instruct personnel to stand clear, and report to the assembly area.

3. Sound applicable alarm, if not previously done.

4. Announce type and location, instruct personnel to stand clear, and report to the assembly area.

5. Initiate Search and Rescue as required.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 53
DUTIES OF EMERGENCY COORDINATOR

Time

CAUTION: If a significant release (process monitors off scale, or other indications) and/or security related events are in progress (intruders, bomb threat etc.) inform emergency responders AND site evacuees of best access and egress routes to take onsite to minimize hazards. During off-hours, dispatch Security to route incoming emergency responders away from the hazardous routes.

NOTE: If plant events (radiological or security threat considerations) warrant, alternate facilities and/or routes to these facilities may be necessary. Refer to Precautions, Section 4.0.

8.5.6 Direct STA to initiate activation of on site Emergency Response Facilities (ERF) per EPIP-20104.

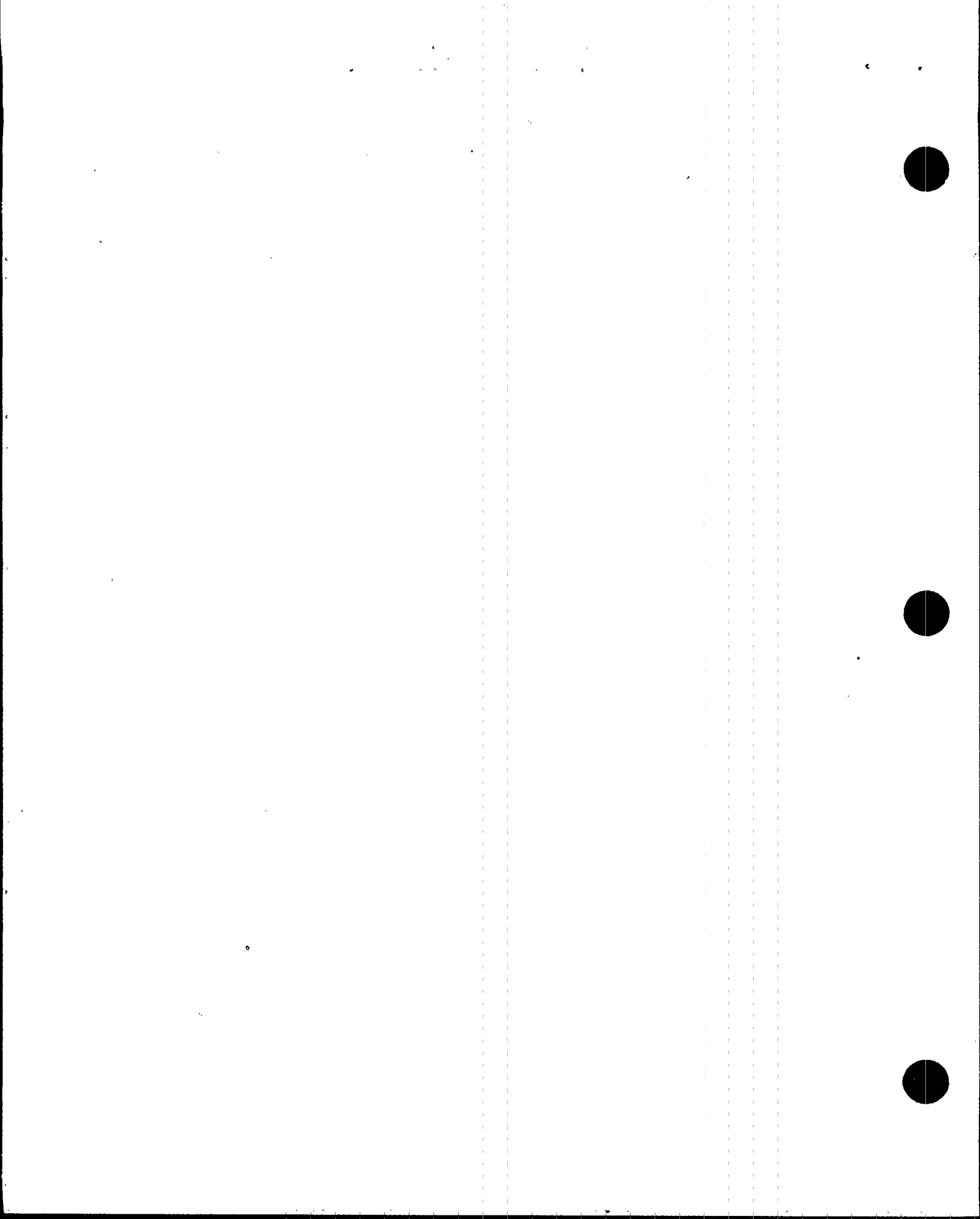
- CAUTIONS:
- Notification to the State Warning Point is required within 15 minutes of emergency classification.
 - Notification to the NRCOC is required to immediately follow the State notification and no later than one (1) hour.
 - Collection of Release Rate Data shall not delay State of Florida or NRC notification.
 - If a transitory event has occurred, notifications are still required using this procedure.

NOTE: If during the notification process, it becomes necessary to upgrade the emergency classification,

1. ensure that the State Warning Point has been notified of the emergency declaration within 15 minutes of making the initial classification,
2. stop the current notification process, and
3. proceed to the steps corresponding to the new emergency classification, including notification of the new classification to the State Warning Point.

8.5.7 If offsite (State/County) notification responsibilities ARE with the Emergency Coordinator onsite, complete the following steps:

1. Complete the State of Florida Notification Message Form.
2. The Emergency Coordinator shall initial the form prior to transmitting the information to verify Emergency Coordinator approval.



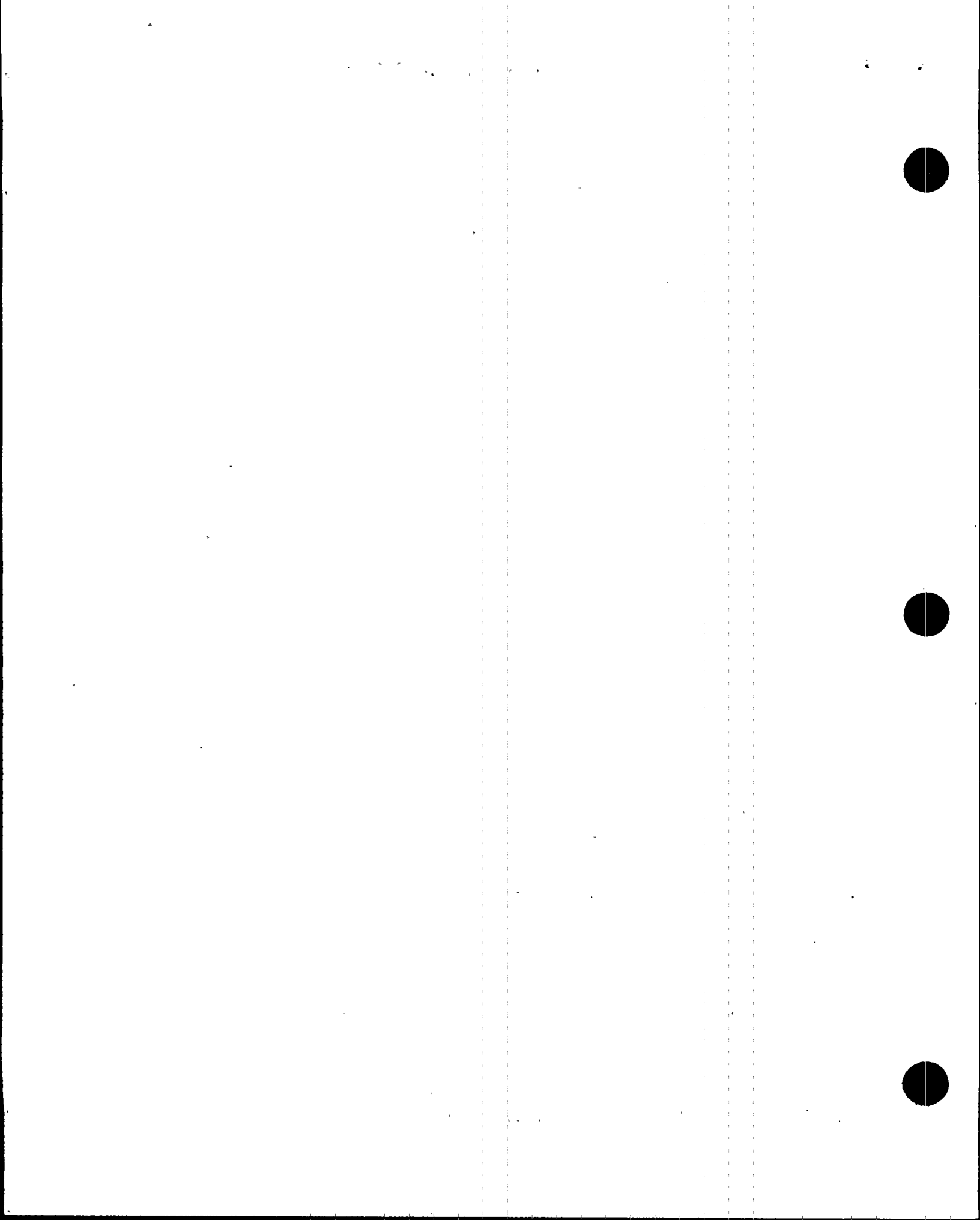
EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 54
DUTIES OF EMERGENCY COORDINATOR

Time

NOTE:

State Warning Point may request verification call back. If requested, they will call in on the black bell phone (ringmaster) or cellular phone in the Control Room.

3. Within 15 minutes of classifying the Alert notify the State Warning Point in Tallahassee and relay information from the State of Florida Notification Message Form just completed via one of the following:
 - a. Hot Ring Down Telephone
 - b. ESATCOM
 - c. Commercial Telephone (refer to ERD)
 - d. Cellular Phone (refer to ERD)
 - e. Local Government Radio
4. Complete an Event Notification Worksheet Form.
5. Immediately after the notification to State/County agencies of the Alert, contact the NRCOC in Bethesda and relay the information from the Event Notification Worksheet just completed via one of the following:
 - a. ENS
 - b. Commercial Telephone (refer to ERD)
 - c. Cellular Telephone (refer to ERD)



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 55
DUTIES OF EMERGENCY COORDINATOR

STATE OF FLORIDA NOTIFICATION MESSAGE FORM FOR NUCLEAR POWER PLANTS

☐ **THIS IS A DRILL**

☐ **THIS IS AN ACTUAL EMERGENCY**

1. A. Time/Date _____ B. Reported by (Name/Title) _____
 C. Message Number _____ D. From: ☐ Control Room ☐ TSC ☐ EOF

2. SITE ☐ CRYSTAL RIVER UNIT 3 ☐ ST LUCIE UNIT 1 ☐ TURKEY POINT UNIT 3
☐ ST LUCIE UNIT 2 ☐ TURKEY POINT UNIT 4

3. ACCIDENT CLASSIFICATION

- ☐ NOTIFICATION OF UNUSUAL EVENT
☐ ALERT

- ☐ SITE AREA EMERGENCY
☐ GENERAL EMERGENCY

4. CURRENT EMERGENCY DECLARATION: TIME: _____ DATE: _____

5. INCIDENT DESCRIPTION OR UPDATE _____

6. INJURIES A. ☐ CONTAMINATED _____ B. ☐ NON-CONTAMINATED _____

7. RELEASE STATUS:

- A. ☐ No Release (Go to Item 11)
 B. ☐ Potential (Possible) release

- C. ☐ A Release is occurring --expected duration _____
 D. ☐ A Release occurred, but stopped-- duration _____

8. *RELEASE RATE A. ☐ NOBLE GASES: _____ Curies per second ☐ Measured: ☐ Default
 B. ☐ IODINES: _____ Curies per second ☐ Measured: ☐ Default
 C. ☐ Release within normal operating limits.

9. *TYPE OF RELEASE IS (Blanks are for specific nuclides if available, i.e., I-131, Cs-137, etc.)

- A. ☐ Radioactive gases _____ C. ☐ Radioactive liquids _____
 B. ☐ Radioactive airborne particulates _____ D. ☐ Other _____

10. *PROJECTED OFFSITE DOSE RATE

DISTANCE

1 MILE (Site Boundary)
 2 MILES
 5 MILES
 10 MILES

THYROID DOSE RATE (CDE)

_____ mrem/hr
 _____ mrem/hr
 _____ mrem/hr
 _____ mrem/hr

TOTAL DOSE RATE (TEDE)

_____ mrem/hr
 _____ mrem/hr
 _____ mrem/hr
 _____ mrem/hr

11. METEOROLOGICAL DATA

- A. Wind direction (from) _____ degrees. C. Wind speed _____ MPH
 B. Sectors affected _____ D. Stability class _____

12. UTILITY RECOMMENDED PROTECTIVE ACTIONS:

- A. ☐ No recommendations at this time.
 B. ☐ Notify the public to take the following protective actions:
 (Note: If message refers to 360° radius, use the word "ALL" under sectors.)

MILES
 0--2
 2--5
 5--10

NO ACTION

SHELTER/SECTORS

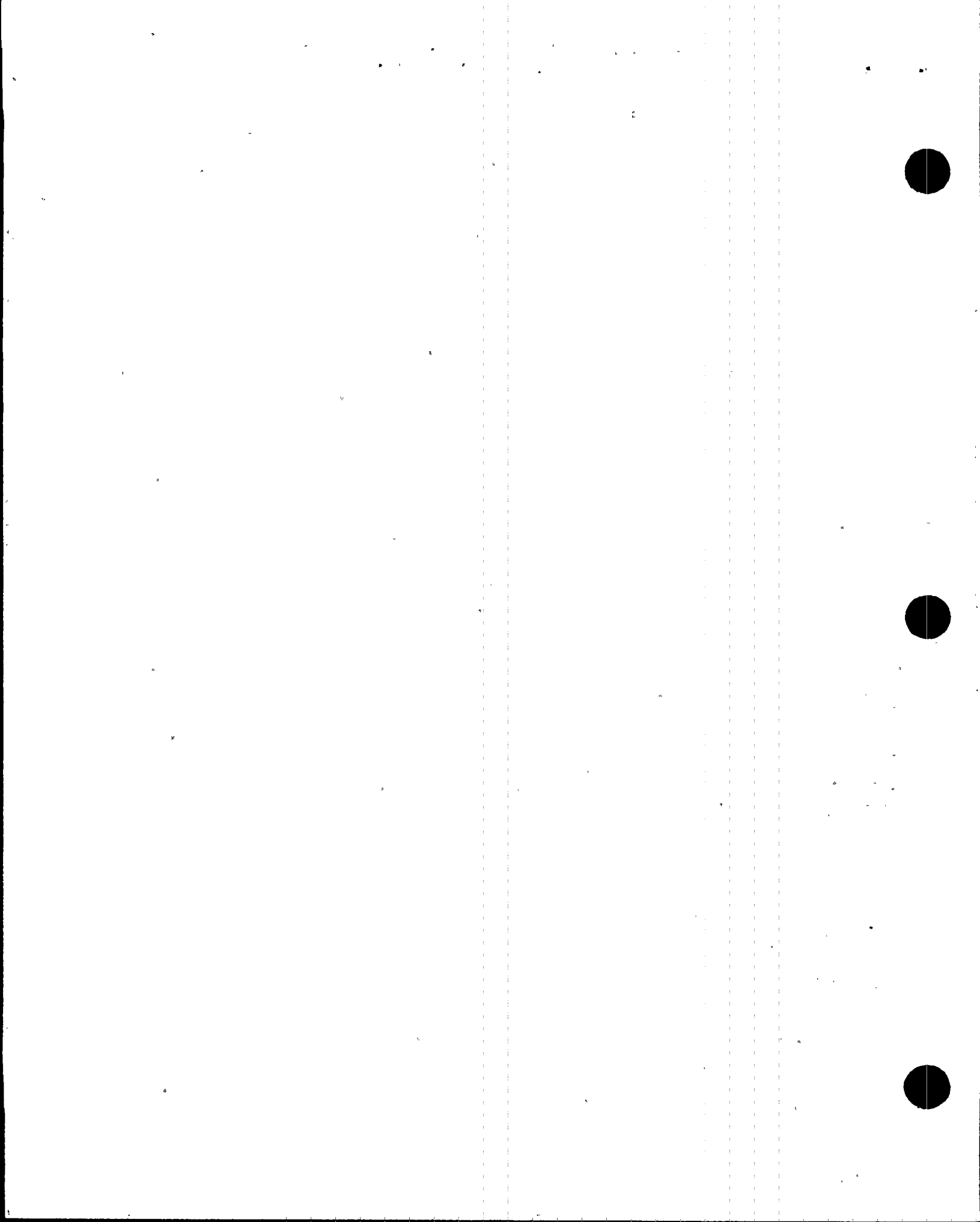
EVACUATE/SECTORS

13. HAS EVENT BEEN TERMINATED?: A. ☐ NO B. ☐ YES: TIME _____ DATE _____

RM/EC Approval: _____ Time: _____ Date: _____

14. MESSAGE RECEIVED BY: Name _____ Time: _____ Date: _____

* This information may not be available on initial notifications.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 56
DUTIES OF EMERGENCY COORDINATOR

SECTOR REFERENCE:

The chart below can be used to determine sectors affected by a radiological release, through comparison with wind direction from the meteorological recorders in the Control Room.

If the wind direction is directly on the edge of two sectors (e.g., 11°, 33°, 56°, etc.), an additional sector should be added to the protective action recommendations. For example, if the wind direction is from 78°, then the affected sectors for PARs should be L, M, N, and P.

Sector Information:

WIND SECTOR	WIND FROM	DEGREES	WIND TOWARD	SECTORS AFFECTED
[A]	N	348 - 11	S	H J K
[B]	NNE	11 - 33	SSW	J K L
[C]	NE	33 - 56	SW	K L M
[D]	ENE	56 - 78	WSW	L M N
[E]	E	78 - 101	W	M N P
[F]	ESE	101 - 123	WNW	N P Q
[G]	SE	123 - 146	NW	P Q R
[H]	SSE	146 - 168	NNW	Q R A
[J]	S	168 - 191	N	R A B
[K]	SSW	191 - 213	NNE	A B C
[L]	SW	213 - 236	NE	B C D
[M]	WSW	236 - 258	ENE	C D E
[N]	W	258 - 281	E	D E F
[P]	WNW	281 - 303	ESE	E F G
[Q]	NW	303 - 326	SE	F G H
[R]	NNW	326 - 348	SSE	G H J

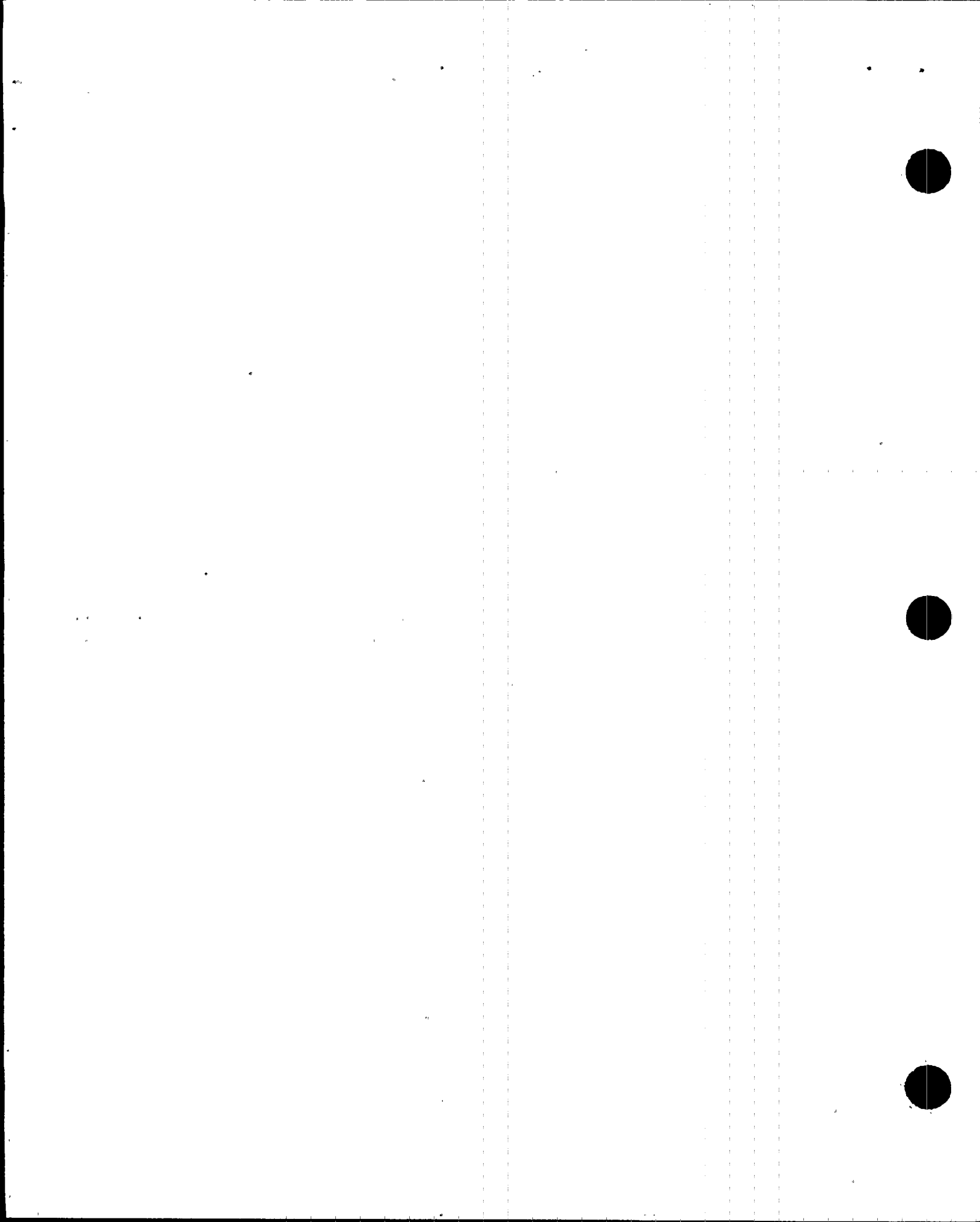
STABILITY CLASSIFICATION REFERENCE:

The below chart can be used to determine atmospheric stability classification for notification to the State of Florida. Primary method is from ΔT via the South Dade (60 meter) tower. Backup method is from Sigma Theta via the Ten Meter Tower. If neither meteorological tower is available, Stability Classification shall be determined using data from National Weather Service (See EPIP-20126, Off-Site Dose Calculations).

CLASSIFICATION OF ATMOSPHERIC STABILITY

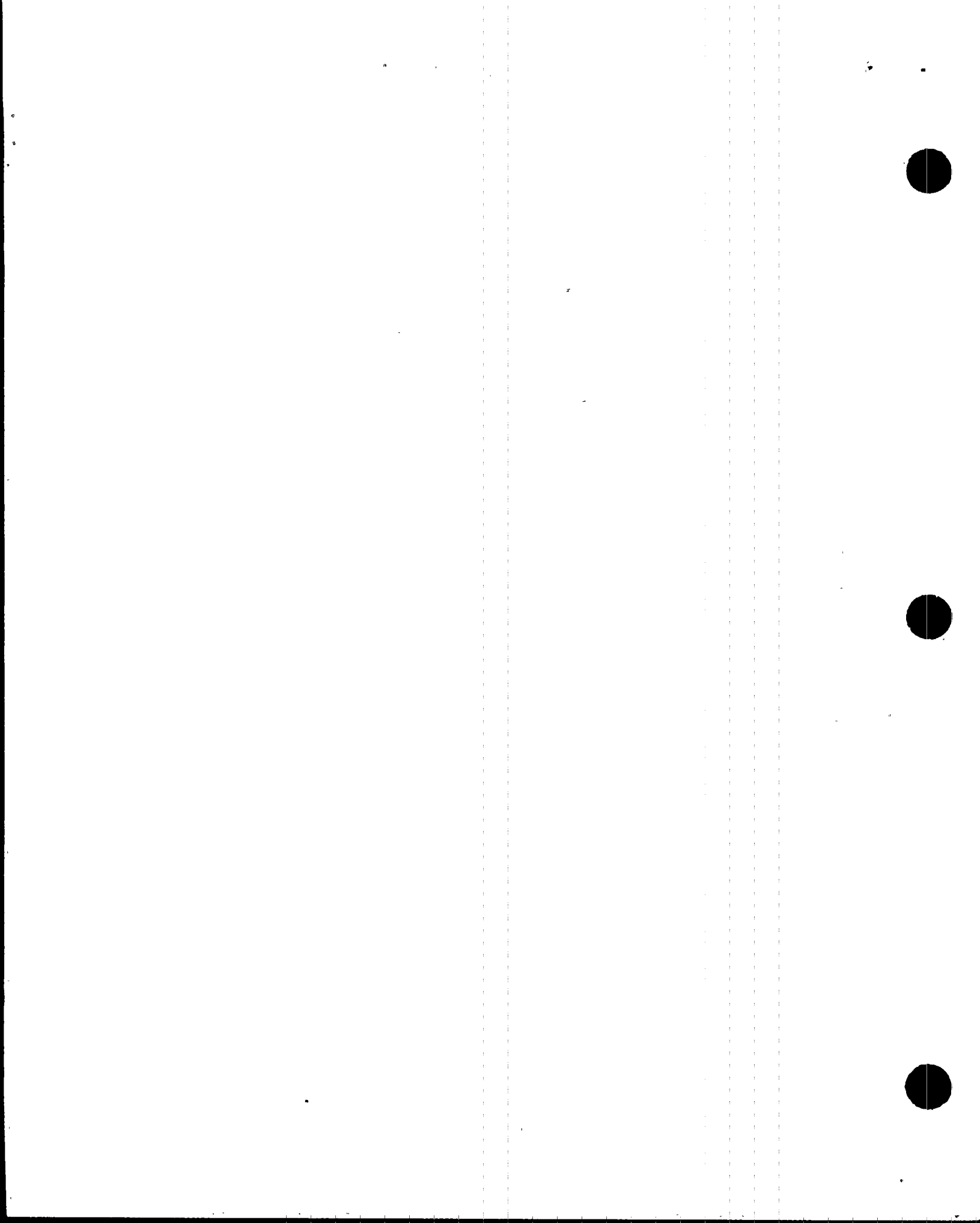
Stability Classification	Pasquill Categories	Primary Delta T (°F)	Backup Sigma Theta Range (Degrees)
Extremely unstable	A	$\Delta T \leq -1.7$	22.5 or more
Moderately unstable	B	$-1.7 < \Delta T \leq -1.5$	17.5 to 22.4
Slightly unstable	C	$-1.5 < \Delta T \leq -1.4$	12.5 to 17.4
Neutral	D	$-1.4 < \Delta T \leq -0.5$	7.5 to 12.4
Slightly stable	E	$-0.5 < \Delta T \leq 1.4$	3.8 to 7.4
Moderately stable	F	$1.4 < \Delta T \leq 3.6$	2.1 to 3.7
Extremely stable	G	$3.6 < \Delta T$	2.0 or less

Meteorological information needed to fill out Section II on the Notification Message Form is available from the Dose calculation Worksheet (EPIP-20126). The worksheet shall be filled out by Chemistry and given to the Emergency Coordinator.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 57
DUTIES OF EMERGENCY COORDINATOR

NRC FORM 361				US NUCLEAR REGULATORY COMMISSION OPERATIONS CENTER			
EVENT NOTIFICATION WORKSHEET							
NOTIFICATION TIME	FACILITY OR ORGANIZATION	UNIT	CALLERS NAME	CALL BACK: ENS _____ OR () _____			
EVENT TIME & ZONE	EVENT DATE / /	1-Hr Non-Emergency 10 CFR 50.72 (b) (1)		(v) Lost Offsite Comms			
		(i) (A) TS Required S/D		(vi) Fire			
				(vi) Toxic Gas			
POWER MODE BEFORE	POWER MODE AFTER	(i) (B) TS Deviation		(vi) Rad Release			
		(iii) Degraded Condition		(vi) Oth Hampering Safe Op			
		(ii) (A) Unanalyzed Condition		4-Hr Non-Emergency 10 CFR 50.72 (b) (2)			
Event Classifications		(ii) (B) Outside Design Basis					
		(ii) (C) Not Covered by OPs/EOPs					
<input type="checkbox"/> GENERAL EMERGENCY	(iii) Earthquake		(i) Degrade While S/D				
<input type="checkbox"/> SITE AREA EMERGENCY	(iii) Flood		(ii) RPS Actuation (Scram)				
<input type="checkbox"/> ALERT	(iii) Hurricane		(ii) ESF Actuation				
<input type="checkbox"/> UNUSUAL EVENT	(iii) Ice/Hail		(iii) (A) Safe S/D Capability				
<input type="checkbox"/> 50.72 NON-EMERGENCY	(iii) Lighting		(iii) (B) Rhr Capability				
<input type="checkbox"/> PHYSICAL SECURITY (73.71)	(iii) Tornado		(iii) (C) Control of Rad Release				
<input type="checkbox"/> TRANSPORTATION	(iii) Other Natural Phenomenon		(iii) (D) Accident Mitigation				
<input type="checkbox"/> 20.403 MATERIAL/EXPOSURE	(iv) ECCS Discharge to RCS		(iv) (A) Air Release > 2X App B				
<input type="checkbox"/> OTHER	(v) Lost ENS		(iv) (B) Liq Release > 2X App B				
		(v) Lost Emerg. Assessment		(v) Offsite Medical			
				(vi) Offsite Notification			
<p align="center" style="margin-top: 0;">DESCRIPTION</p>							
Include: Systems affected, actuations & their initiating signals, causes, effect of event on plant, actions taken or planned, etc.							
NOTIFICATIONS NRC RESIDENT	YES	NO	WILL BE	ANYTHING UNUSUAL OR NOT UNDERSTOOD?	YES (Explain above)	NO	
STATE(s)				DID ALL SYSTEMS FUNCTION AS REQUIRED?	YES	NO (Explain above)	
LOCAL							
OTHER GOV AGENCIES				MODE OF OPERATION UNTIL CORRECTED	ESTIMATE FOR RESTART DATE:	ADDITION INFO ON BACK?	

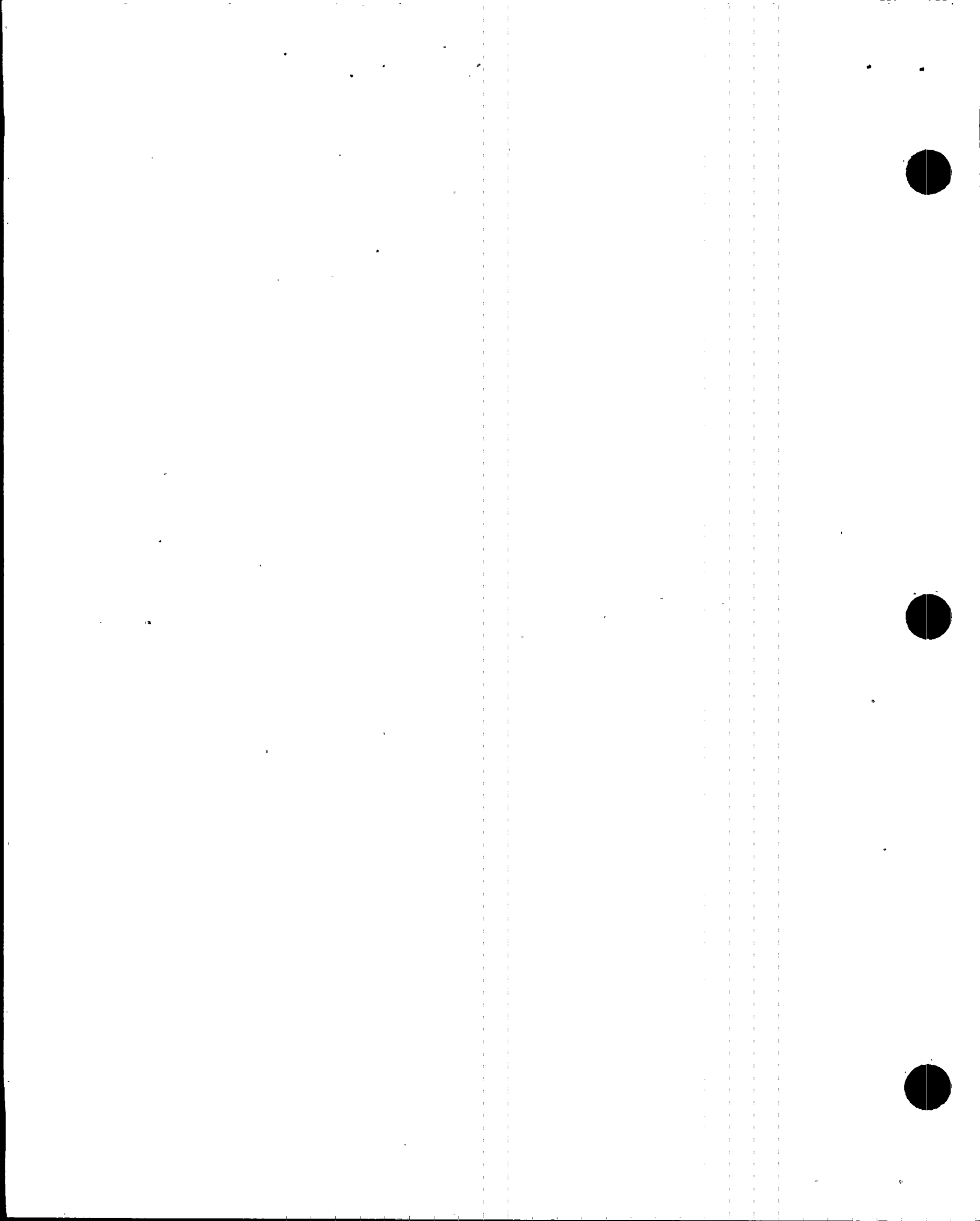


EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 58
DUTIES OF EMERGENCY COORDINATOR

NRC FORM 361

ADDITIONAL INFORMATION USNRC OPERATIONS CENTER

RADIOLOGICAL RELEASES CHECK OR FILL IN APPLICABLE ITEMS (specific details/explanations should be covered in event description)							
LIQUID RELEASE	GASEOUS RELEASE	UNPLANNED RELEASE	PLANNED RELEASE	ONGOING	TERMINATED		
MONITORED	UNMONITORED	OFFSITE RELEASE	T.S. EXCEEDED	RM ALARMS	AREAS EVACUATED		
PERSONNEL EXPOSED OR CONTAMINATED		OFFSITE PROTECTIVE ACTIONS RECOMMENDED		*State release path in description			
	Release Rate (Ci/sec)	% T.S. LIMIT	HOO GUIDE	Total Activity (Ci)	% T.S. LIMIT	HOO GUIDE	
Noble Gas			0.1 Ci/sec			1000 Ci	
Iodine			10 uCi/sec			0.01 Ci	
Particulate			1 uCi/sec			1 mCi	
Liquid (excluding tritium & dissolved noble gases)			10 uCi/min			0.1 Ci	
Liquid (tritium)			0.2 Ci/min			5 Ci	
Total Activity							
	PLANT STACK	CONDENSER/AIR EJECTOR	MAIN STEAM LINE	SG BLOWDOWN	OTHER		
RAD MONITOR READINGS:							
ALARM SETPOINTS:							
% T.S. LIMIT (if applicable)							
RCS OR SG TUBE LEAKS CHECK OR FILL IN APPLICABLE ITEMS: (specific details/explanations should be covered in event description)							
LOCATION OF THE LEAK (e.g., SG #, valve, pipe, etc):							
LEAK RATE:	UNITS: gpm/gpd	T.S. Limits:	SUDDEN OR LONG TERM DEVELOPMENT:				
LEAK START DATE:	TIME:	COOLANT ACTIVITY & UNITS: PRIMARY -			SECONDARY -		
LIST OF SAFETY RELATED EQUIPMENT NOT OPERATIONAL:							
<p align="center">EVENT DESCRIPTION (Continued from front)</p>							



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 59
DUTIES OF EMERGENCY COORDINATOR

Time _____

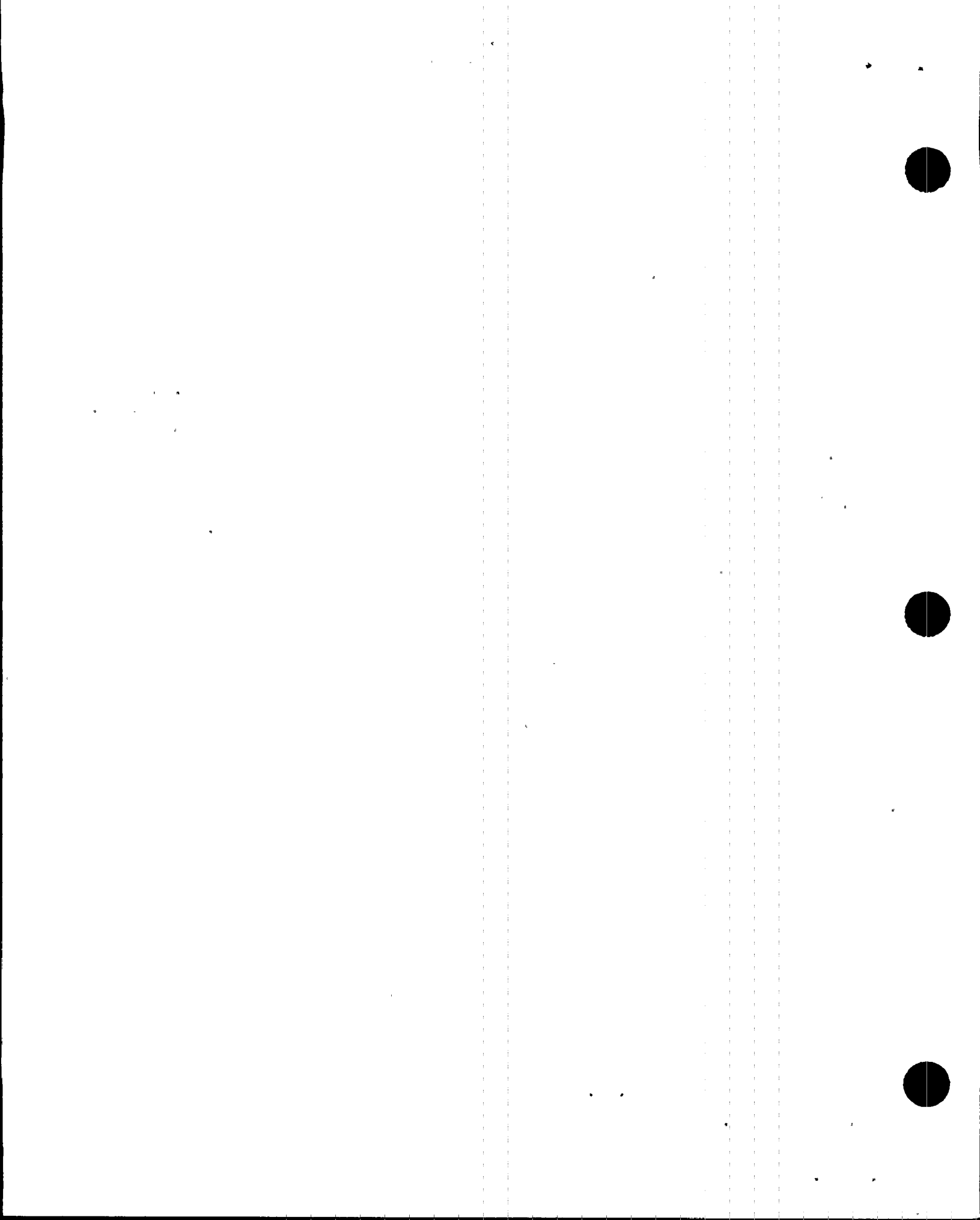
- 8.5.8 Notify the Nuclear Division Duty Officer (NDDO). If on duty |
NDDO cannot be reached, notify any NDDO, or RM. See the |
NDDO Schedule or the Emergency Response Directory for |
telephone numbers, and relay applicable information |
from the State of Florida Notification Message Form. |
- 8.5.9 If Emergency Response Facilities (TSC/OSC) are activated
consider Emergency Coordinator transfer to TSC.
- 8.5.10 If the EOF is operational relinquish communication
responsibilities of off-site agencies to Recovery Manager at
EOF after a proper turnover/briefing.
- 8.5.11 Reassess plant conditions using Table 1 periodically.

CAUTION: If the EOF is operational and the emergency has been
upgraded, it is imperative that the Recovery Manager be
notified concurrently with the declaration. This will
ensure that the 15 minute notification time limit is met.

- 8.5.12 If upgrading emergency classification level, proceed to
applicable section of this procedure per Table 1 and if the EOF
is operational, promptly notify the Recovery Manager.

- 8.5.13 Every hour (unless state and local agencies agree less frequent
updates are required), upon termination, or as conditions
change, provide notification to the following if notification
responsibilities are with the Emergency Coordinator Onsite:

1. Complete a State of Florida Notification Message Form
2. The Emergency Coordinator shall initial the form prior to
transmitting the information to verify Emergency
Coordinator approval.
3. Notify the following of the updated information.
 - a. State Warning Point
 - b. NDDO
 - c. Duty Call Supervisor
 - d. Recovery Manager
4. Complete an Event Notification Worksheet Form
5. Notify the NRCOC with the updated information.
 - a. ENS
 - b. Commercial telephone (refer to ERD)



DUTIES OF EMERGENCY COORDINATOR

STATE OF FLORIDA NOTIFICATION MESSAGE FORM FOR NUCLEAR POWER PLANTS

☐ THIS IS A DRILL☐ THIS IS AN ACTUAL EMERGENCY

1. A. Time/Date _____ B. Reported by (Name/Title) _____
 C. Message Number _____ D. From: ☐ Control Room ☐ TSC ☐ EOF
2. SITE ☐ CRYSTAL RIVER UNIT 3 ☐ ST LUCIE UNIT 1 ☐ TURKEY POINT UNIT 3
☐ ST LUCIE UNIT 2 ☐ TURKEY POINT UNIT 4

3. ACCIDENT CLASSIFICATION

- ☐ NOTIFICATION OF UNUSUAL EVENT
☐ ALERT

- ☐ SITE AREA EMERGENCY
☐ GENERAL EMERGENCY

4. CURRENT EMERGENCY DECLARATION: TIME: _____ DATE: _____5. INCIDENT DESCRIPTION OR UPDATE6. INJURIES A. ☐ CONTAMINATED _____B. ☐ NON-CONTAMINATED _____7. RELEASE STATUS:

- A. ☐ No Release (Go to Item 11)
 B. ☐ Potential (Possible) release

- C. ☐ A Release is occurring --expected duration _____
 D. ☐ A Release occurred, but stopped-- duration _____

8. *RELEASE RATE A. ☐ NOBLE GASES: _____ Curies per second ☐ Measured ☐ Default
 B. ☐ IODINES: _____ Curies per second ☐ Measured ☐ Default
 C. ☐ Release within normal operating limits.

9. *TYPE OF RELEASE IS (Blanks are for specific nuclides if available, i.e., I-131, Cs-137, etc.)

- A. ☐ Radioactive gases _____ C. ☐ Radioactive liquids _____
 B. ☐ Radioactive airborne particulates _____ D. ☐ Other _____

10. *PROJECTED OFFSITE DOSE RATEDISTANCE

1 MILE (Site Boundary)
 2 MILES
 5 MILES
 10 MILES

THYROID DOSE RATE (CDE)

mrem/hr
 mrem/hr
 mrem/hr
 mrem/hr

TOTAL DOSE RATE (TEDE)

mrem/hr
 mrem/hr
 mrem/hr
 mrem/hr

11. METEOROLOGICAL DATA

- A. Wind direction (from) _____ degrees. C. Wind speed _____ MPH
 B. Sectors affected _____ D. Stability class _____

12. UTILITY RECOMMENDED PROTECTIVE ACTIONS:

- A. ☐ No recommendations at this time.
 B. ☐ Notify the public to take the following protective actions:
 (Note: If message refers to 360° radius, use the word "ALL" under sectors.)

MILESNO ACTIONSHELTER/SECTORSEVACUATE/SECTORS

0--2

2--5

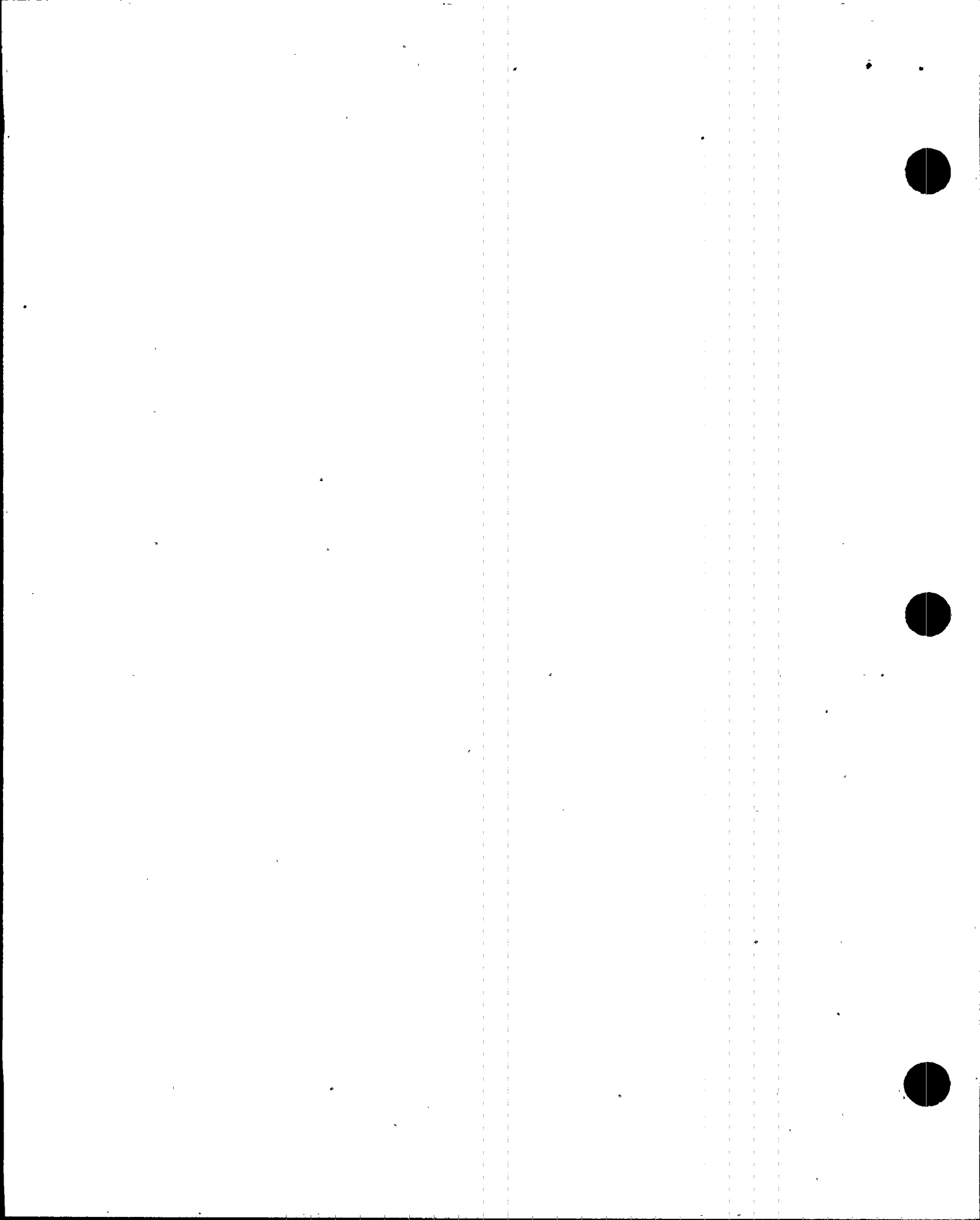
5--10

13. HAS EVENT BEEN TERMINATED?: A. ☐ NO B. ☐ YES: TIME _____ DATE _____

RM/EC Approval: _____ Time: _____ Date: _____

14. MESSAGE RECEIVED BY: Name _____ Time: _____ Date: _____

* This information may not be available on initial notifications.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 61
DUTIES OF EMERGENCY COORDINATOR

SECTOR REFERENCE:

The chart below can be used to determine sectors affected by a radiological release, through comparison with wind direction from the meteorological recorders in the Control Room.

If the wind direction is directly on the edge of two sectors (e.g., 11°, 33°, 56°, etc.), an additional sector should be added to the protective action recommendations. For example, if the wind direction is from 78°, then the affected sectors for PARS should be L, M, N, and P.

Sector Information:

WIND SECTOR	WIND FROM	DEGREES	WIND TOWARD	SECTORS AFFECTED
[A]	N	348 - 11	S	H J K
[B]	NNE	11 - 33	SSW	J K L
[C]	NE	33 - 56	SW	K L M
[D]	ENE	56 - 78	WSW	L M N
[E]	E	78 - 101	W	M N P
[F]	ESE	101 - 123	WNW	N P Q
[G]	SE	123 - 146	NW	P Q R
[H]	SSE	146 - 168	NNW	Q R A
[J]	S	168 - 191	N	R A B
[K]	SSW	191 - 213	NNE	A B C
[L]	SW	213 - 236	NE	B C D
[M]	WSW	236 - 258	ENE	C D E
[N]	W	258 - 281	E	D E F
[P]	WNW	281 - 303	ESE	E F G
[Q]	NW	303 - 326	SE	F G H
[R]	NNW	326 - 348	SSE	G H J

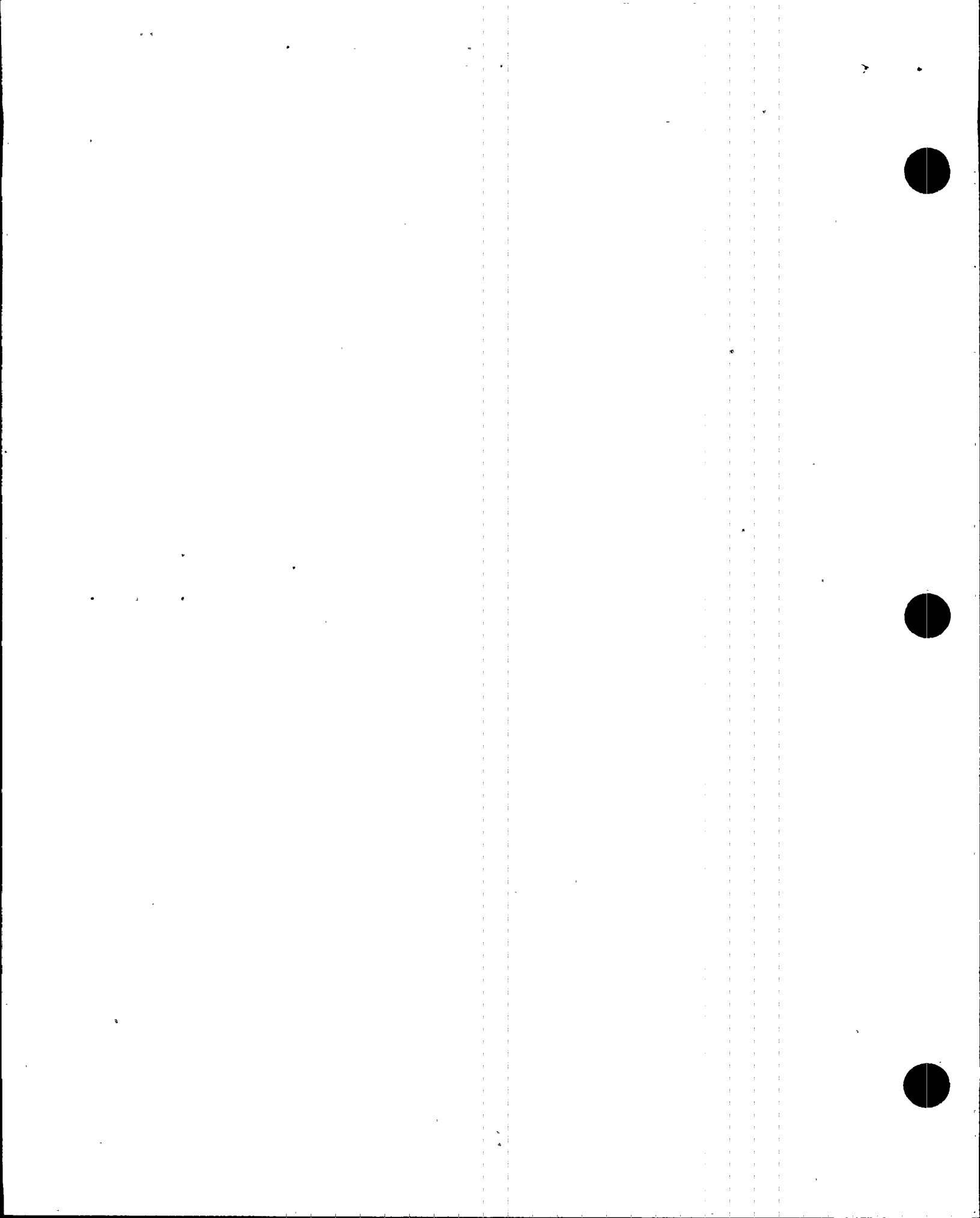
STABILITY CLASSIFICATION REFERENCE:

The below chart can be used to determine atmospheric stability classification for notification to the State of Florida. Primary method is from ΔT via the South Dade (60 meter) tower. Backup method is from Sigma Theta via the Ten Meter Tower. If neither meteorological tower is available, Stability Classification shall be determined using data from National Weather Service (See EPIP-20126, Off-Site Dose Calculations).

CLASSIFICATION OF ATMOSPHERIC STABILITY

Stability Classification	Pasquill Categories	Primary Delta T (°F)	Backup Sigma Theta Range (Degrees)
Extremely unstable	A	$\Delta T \leq -1.7$	22.5 or more
Moderately unstable	B	$-1.7 < \Delta T \leq -1.5$	17.5 to 22.4
Slightly unstable	C	$-1.5 < \Delta T \leq -1.4$	12.5 to 17.4
Neutral	D	$-1.4 < \Delta T \leq -0.5$	7.5 to 12.4
Slightly stable	E	$-0.5 < \Delta T \leq 1.4$	3.8 to 7.4
Moderately stable	F	$1.4 < \Delta T \leq 3.6$	2.1 to 3.7
Extremely stable	G	$3.6 < \Delta T$	2.0 or less

Meteorological information needed to fill out Section II on the Notification Message Form is available from the Dose calculation Worksheet (EPIP-20126). The worksheet shall be filled out by Chemistry and given to the Emergency Coordinator.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 62
DUTIES OF EMERGENCY COORDINATOR

NRC FORM 361

US NUCLEAR REGULATORY COMMISSION
OPERATIONS CENTER

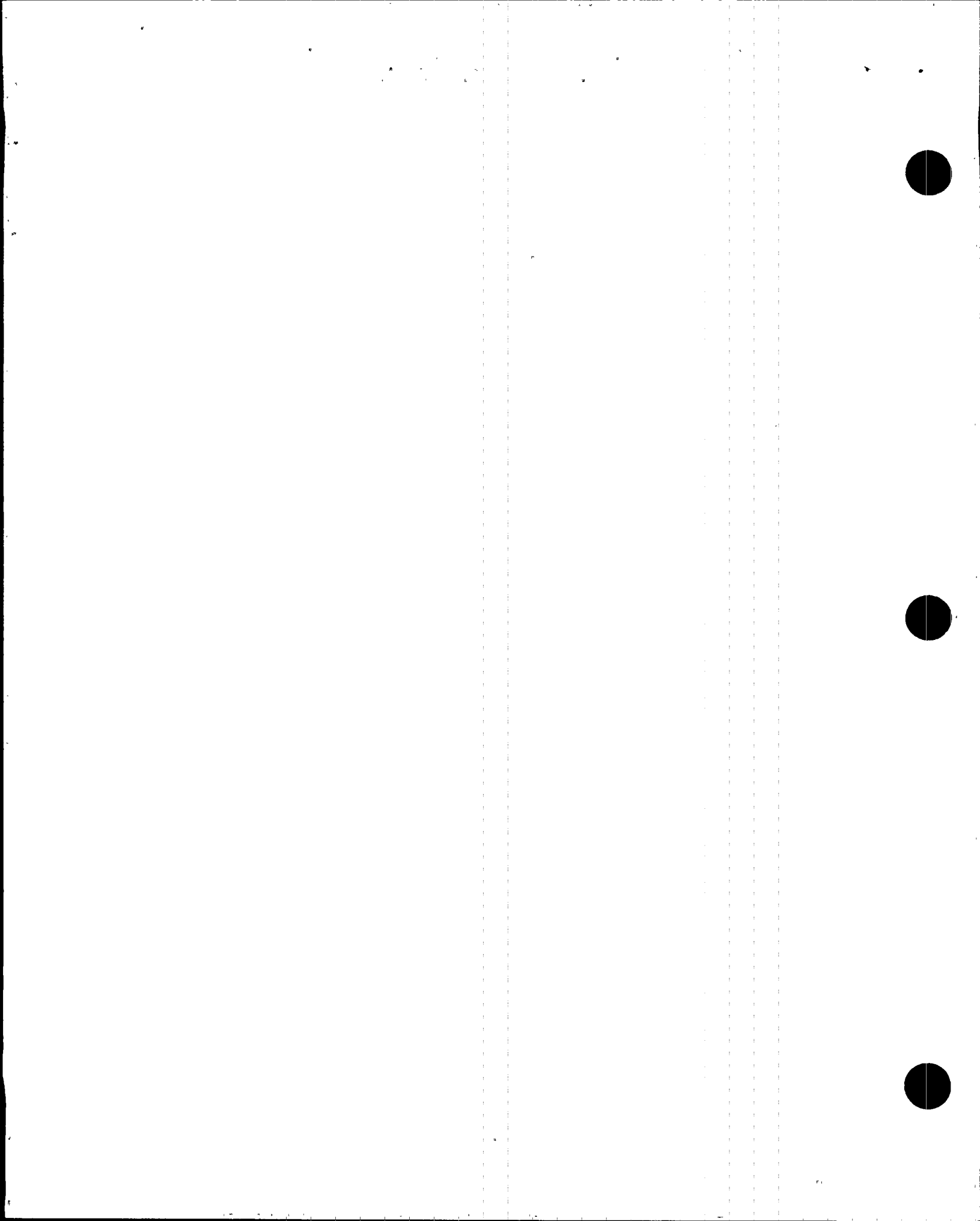
EVENT NOTIFICATION WORKSHEET

NOTIFICATION TIME	FACILITY OR ORGANIZATION	UNIT	CALLERS NAME	CALL BACK: ENS _____ OR () _____
EVENT TIME & ZONE	EVENT DATE / /	1-Hr Non-Emergency 10 CFR 50.72 (b) (1)		(v) Lost Offsite Comms
		(i) (A) TS Required S/D		(vi) Fire
POWER MODE BEFORE	POWER MODE AFTER	(i) (B) TS Deviation		(vi) Toxic Gas
		(iii) Degraded Condition		(vi) Rad Release
Event Classifications		(ii) (A) Unanalyzed Condition		4-Hr Non-Emergency 10 CFR 50.72 (b) (2)
		(ii) (B) Outside Design Basis		
		(ii) (C) Not Covered by OPs/EOPs		(i) Degrade While S/D
GENERAL EMERGENCY		(iii) Earthquake		(ii) RPS Actuation (Scram)
SITE AREA EMERGENCY		(iii) Flood		(ii) ESF Actuation
ALERT		(iii) Hurricane		(iii) (A) Safe S/D Capability
UNUSUAL EVENT		(iii) Ice/Hail		(iii) (B) Rhr Capability
50.72 NON-EMERGENCY		(iii) Lighting		(iii) (C) Control of Rad Release
PHYSICAL SECURITY (73.71)		(iii) Tornado		(iii) (D) Accident Mitigation
TRANSPORTATION		(iii) Other Natural Phenomenon		(iv) (A) Air Release > 2X App B
20.403 MATERIAL/EXPOSURE		(iv) ECCS Discharge to RCS		(iv) (B) Liq Release > 2X App B
OTHER		(v) Lost ENS		(v) Offsite Medical
		(v) Lost Emerg. Assessment		(vi) Offsite Notification

DESCRIPTION

Include: Systems affected, actuations & their initiating signals, causes, effect of event on plant, actions taken or planned, etc.

NOTIFICATIONS NRC RESIDENT	YES	NO	WILL BE	ANYTHING UNUSUAL OR NOT UNDERSTOOD?	YES (Explain above)	NO
STATE(s)				DID ALL SYSTEMS FUNCTION AS REQUIRED?	YES	NO (Explain above)
LOCAL						
OTHER GOV AGENCIES				MODE OF OPERATION UNTIL CORRECTED	ESTIMATE FOR RESTART DATE:	ADDITION INFO ON BACK?



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 63
DUTIES OF EMERGENCY COORDINATOR

NRC FORM 361

ADDITIONAL INFORMATION

USNRC OPERATIONS CENTER

RADIOLOGICAL RELEASES CHECK OR FILL-IN APPLICABLE ITEMS <i>(specific details/explanations should be covered in event description)</i>							
<input type="checkbox"/> LIQUID RELEASE	<input type="checkbox"/> GASEOUS RELEASE	<input type="checkbox"/> UNPLANNED RELEASE	<input type="checkbox"/> PLANNED RELEASE	<input type="checkbox"/> ONGOING	<input type="checkbox"/> TERMINATED		
<input type="checkbox"/> MONITORED	<input type="checkbox"/> UNMONITORED	<input type="checkbox"/> OFFSITE RELEASE	<input type="checkbox"/> T.S. EXCEEDED	<input type="checkbox"/> RM ALARMS	<input type="checkbox"/> AREAS EVACUATED		
<input type="checkbox"/> PERSONNEL EXPOSED OR CONTAMINATED		<input type="checkbox"/> OFFSITE PROTECTIVE ACTIONS RECOMMENDED			<input type="checkbox"/> *State release path in description		
	Release Rate (Ci/sec)	% T.S. LIMIT	HOO GUIDE	Total Activity (Ci)	% T.S. LIMIT	HOO GUIDE	
Noble Gas			0.1 Ci/sec			1000 Ci	
Iodine			10 uCi/sec			0.01 Ci	
Particulate			1 uCi/sec			1 mCi	
Liquid (excluding tritium & dissolved noble gases)			10 uCi/min			0.1 Ci	
Liquid (tritium)			0.2 Ci/min			5 Ci	
Total Activity							
	PLANT STACK	CONDENSER/AIR EJECTOR	MAIN STEAM LINE	SG BLOWDOWN	OTHER		
RAD MONITOR READINGS:							
ALARM SETPOINTS:							
% T.S. LIMIT (If applicable)							
RCS OR SG TUBE LEAKS CHECK OR FILL IN APPLICABLE ITEMS: <i>(specific details/explanations should be covered in event description)</i>							
LOCATION OF THE LEAK <i>(e.g., SG #, valve, pipe, etc):</i>							
LEAK RATE:	UNITS: gpm/gpd	T.S. Limits:	SUDDEN OR LONG TERM DEVELOPMENT:				
LEAK START DATE:	TIME:	COOLANT ACTIVITY & UNITS: PRIMARY -			SECONDARY -		
LIST OF SAFETY RELATED EQUIPMENT NOT OPERATIONAL:							
<p align="center">EVENT DESCRIPTION <i>(Continued from front)</i></p>							

EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 64
DUTIES OF EMERGENCY COORDINATOR

Time

- 8.5.14 Using Attachment 1, De-Escalation Guidelines, determine if the emergency can be de-escalated or terminated.
- 8.5.15 If de-escalating Alert, return to the applicable section of this procedure per Table 1.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 65
DUTIES OF EMERGENCY COORDINATOR

Time

- 8.6 If a Site Area Emergency has been declared perform the following steps.

CAUTION: De-escalation from Site Area Emergency must be done in concurrence with the RM.

NOTE: Notification steps may be performed out of sequence in order to meet State of Florida and/or NRC notification time requirements.

- 8.6.1 The Emergency Log Book should be used to document sequence of events.

NOTE: Prescribed emergency announcements may be omitted or modified as directed by the Emergency Coordinator, or his designee, to prevent alarming intruders if security events warrant.

- 8.6.2 Inform, or have the Control Room inform, site personnel of the emergency via Plant Page System using the Page Volume Boost [Either (1) or (2)]:

CAUTION: If a release is in progress, inform emergency responders of access routes to Emergency Response Facilities. During off-hours, dispatch security to route incoming emergency responders away from hazardous routes.

1. If ENTERING into a Site Area Emergency,

- a. Make the following announcement:

"Attention all personnel; attention all personnel: A Site Area Emergency has been declared on Unit (#) due to (provide brief description of initiating event). All Emergency Response Organization members report to your designated Emergency Response Facility."

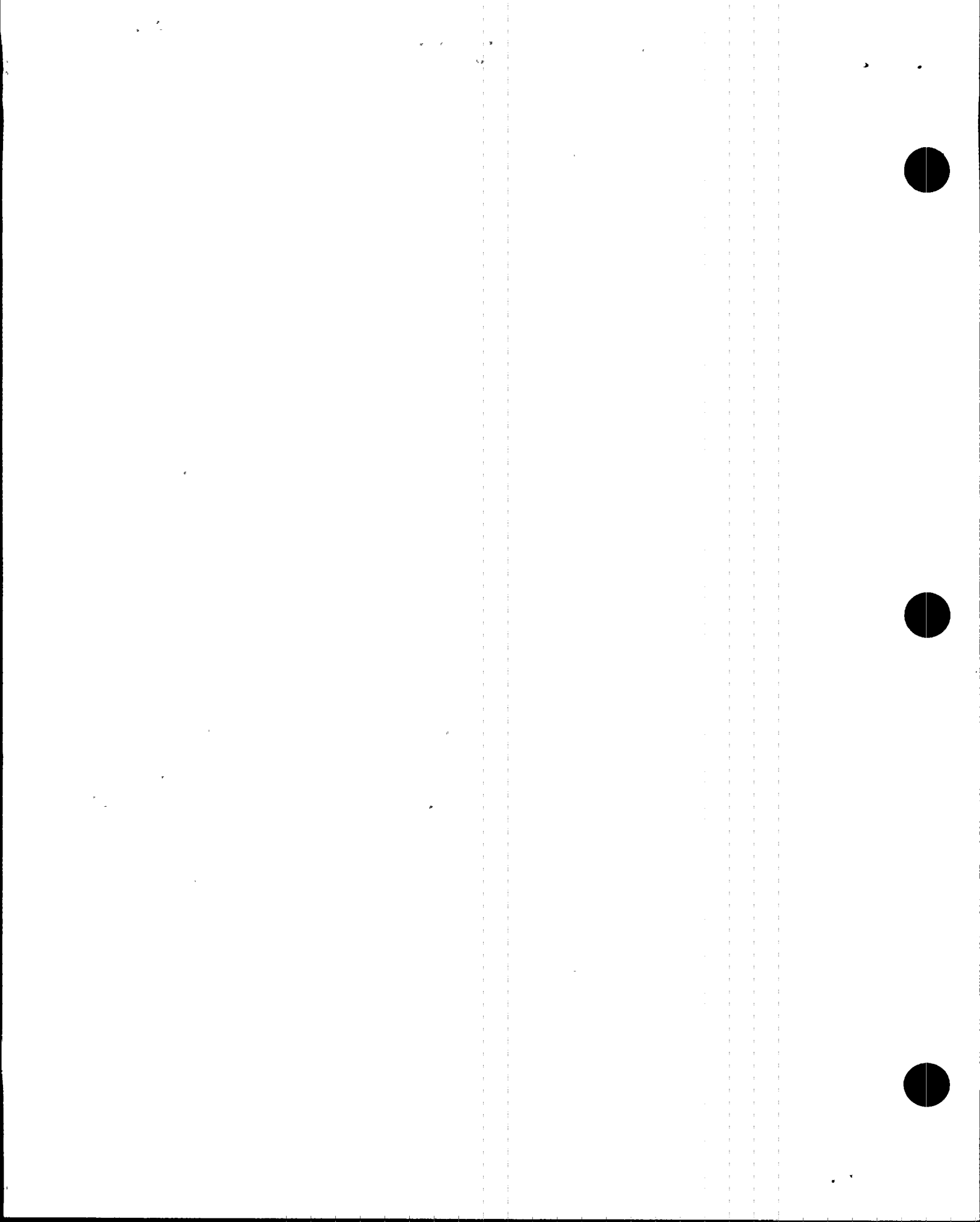
- b. If not previously done, sound the Emergency Plan Activation alarm.

- c. Repeat the announcement.

CAUTION: RM approval is required prior to downgrading from a Site Area Emergency.

2. If DOWNGRADING to a Site Area Emergency, make the following announcement twice:

"Attention all personnel; attention all personnel: The emergency has been downgraded to Site Area Emergency"



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 66
DUTIES OF EMERGENCY COORDINATOR

Time

8.6.3 Consider plant and radiological conditions as they relate to the emergency regarding site evacuation:

1. Potential for release
2. Duration of release
3. Direction of release
4. Meteorological conditions
5. Plant conditions (need for supplemental emergency response personnel)
6. Security Threats to Evacuees

CAUTION: As conditions warrant, the Emergency Coordinator may delay, postpone, or make special requirements (for discussion, see Subsection 4.19) on the evacuation. If large doses will be received during an evacuation, it may be more effective to shelter non-essential personnel onsite.

NOTE: Prescribed emergency announcements may be omitted or modified as directed by the Emergency Coordinator, or his designee, to prevent alarming intruders if security events warrant.

8.6.4 Implement an Owner Controlled Area Evacuation if no significant hazards exist which may threaten evacuees.

1. If the TSC Health Physics Supervisor is available, discuss release status, release duration, and wind direction to determine applicable evacuation route and Offsite Assembly Area.
2. Notify the Security Shift Specialist for an evacuation of the Owner Controlled Area, including non-essential personnel from the Protected Area, and instruct them to implement EPIP-20110, Criteria for and Conduct of an Owner Controlled Area Evacuation, and Security Force Instruction (SFI) 6307, Emergency Evacuation.
3. Notify the Watch Engineer of Units 1 and 2 of the Site Evacuation and instruct them to initiate a roster of personnel left in the fossil units for shutdown of the fossil units.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 67
DUTIES OF EMERGENCY COORDINATOR

Time _____

4. Inform, or have the Control Room inform, site personnel via Plant Page System and complete the following steps:

CAUTION: If a significant release (process monitors off scale or other indications) and/or security related (intruders, bomb threat, etc) events are in progress, inform emergency responders. AND site evacuees of best access and egress routes to take to/from site to minimize hazards. During off-hours, dispatch Security to route incoming emergency responders away from hazardous routes.

- a. Make the following announcement using Page Volume Boost:

"Attention all personnel; attention all personnel: An Owner Controlled Area Evacuation has been implemented. All Emergency Response Organization members report to your designated Emergency Response Facility. All other personnel evacuate to (designated Offsite Assembly Area) by (route to Offsite Assembly Area)"

- b. Sound the Site Evacuation Alarm.

- c. Make the following announcement using Page Volume Boost: "Attention all personnel; attention all personnel: An Owner Controlled Area Evacuation has been implemented. All Emergency Response Organization members report to your designated Emergency Response Facility. All other personnel evacuate to (designated Offsite Assembly Area) by (route to Offsite Assembly Area)"

- 8.6.5 Notify the TSC Security Supervisor (Security Shift Specialist) to:

1. Discuss the potential for the suspension of all or some safeguards. (Reference Step 3.2.4).
2. Provide accountability information as needed (names and badge numbers).



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 68
DUTIES OF EMERGENCY COORDINATOR

Time _____

8.6.6 If there is a localized emergency (fire, high radiation, toxic gas):

1. Determine an assembly area for personnel evacuated from the affected area.
2. Announce type and location, instruct personnel to stand clear and report to the designated assembly area.
3. Sound applicable alarm, if not previously done.
4. Announce type and location, instruct personnel to stand clear and report to the designated assembly area.
5. Initiate Search and Rescue as required.

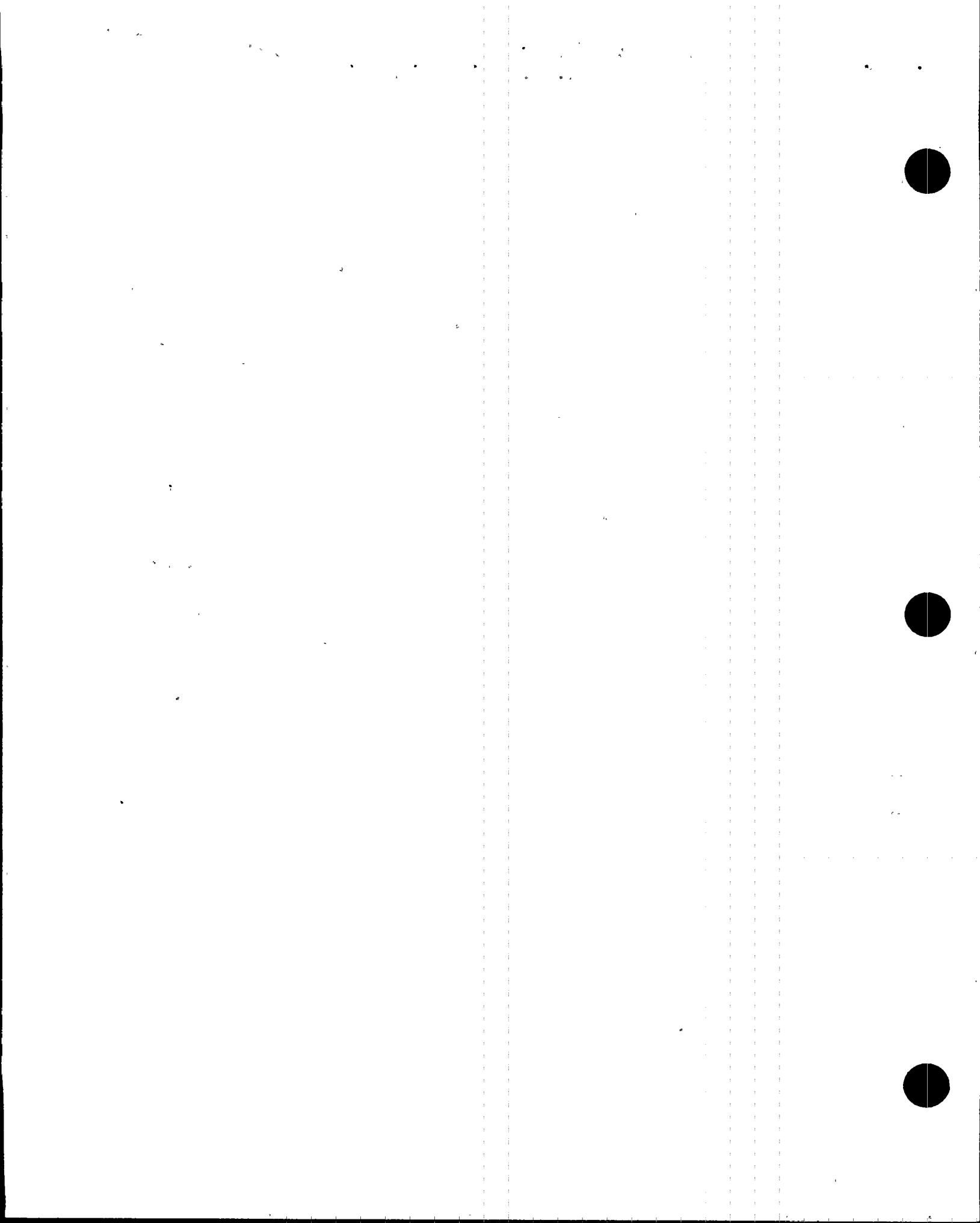
8.6.7 If the onsite Emergency Response Facilities are operational consider Emergency Coordinator transfer to TSC, if not previously done.

NOTE: If plant events (radiological or security threat considerations) warrant, alternate facilities and/or routes to these facilities may be necessary. Refer to Precautions, Section 4.0.

8.6.8 If not previously done, instruct STA to initiate activation of onsite Emergency Response Facilities (ERF) per EPIP-20104.

8.6.9 Update onsite emergency responders of the emergency conditions.

8.6.10 If the EOF is operational relinquish communication responsibilities to offsite agencies to Recovery Manager at EOF.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 69
DUTIES OF EMERGENCY COORDINATOR

Time

CAUTIONS:

- Notification to the State Warning Point is required within 15 minutes of emergency classification.
- Notification to the NRCOC is required to immediately follow the State notification and no later than one (1) hour.
- Collection of Release Rate Data shall not delay State of Florida or NRC notifications.
- If a transitory event has occurred, notifications are still required using this procedure.

NOTE:

If during the notification process, it becomes necessary to upgrade the emergency classification,

1. ensure that the State Warning Point has been notified of the emergency declaration within 15 minutes of making the initial classification,
2. stop the current notification process, and
3. proceed to the steps corresponding to the new emergency classification, including notification of the new classification to the State Warning Point.

8.6.11 If offsite (State/County) notification responsibilities ARE with the Emergency Coordinator onsite, complete the following steps:

1. Complete the State of Florida Notification Message Form.
2. The Emergency Coordinator shall initial the form prior to transmitting the information to verify Emergency Coordinator approval.

EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 70
DUTIES OF EMERGENCY COORDINATOR

Time _____

NOTE: State Warning Point may request verification call back: If requested, they will call in on the black bell phone (ringmaster) or cellular phone in the Control Room.

3. Within 15 minutes of classifying the Site Area Emergency notify the State Warning Point in Tallahassee and relay information from the State of Florida Notification Message Form just completed via one of the following:

- a. Hot Ring Down Telephone
- b. ESATCOM
- c. Commercial Telephone (refer to ERD)
- d. Cellular Phone (refer to ERD)
- e. Local Government Radio

4. Complete an Event Notification Worksheet Form.

5. Immediately after the notification to State/County agencies of the Site Area Emergency contact the NRCOC in Bethesda and relay the information from the Event Notification Worksheet just completed via one of the following:

- a. ENS
- b. Commercial Telephone (refer to ERD)
- c. Cellular Telephone (refer to ERD)



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 71
DUTIES OF EMERGENCY COORDINATOR

STATE OF FLORIDA NOTIFICATION MESSAGE FORM FOR NUCLEAR POWER PLANTS
☐ **THIS IS A DRILL** ☐ **THIS IS AN ACTUAL EMERGENCY**

1. A. Time/Date _____ B. Reported by (Name/Title) _____
 C. Message Number _____ D. From: ☐ Control Room ☐ TSC ☐ EOF

2. SITE ☐ CRYSTAL RIVER UNIT 3 ☐ ST LUCIE UNIT 1 ☐ TURKEY POINT UNIT 3
☐ ST LUCIE UNIT 2 ☐ TURKEY POINT UNIT 4

3. ACCIDENT CLASSIFICATION

☐ NOTIFICATION OF UNUSUAL EVENT
☐ ALERT

☐ SITE AREA EMERGENCY
☐ GENERAL EMERGENCY

4. CURRENT EMERGENCY DECLARATION: TIME: _____ DATE: _____

5. INCIDENT DESCRIPTION OR UPDATE _____

6. INJURIES A. ☐ CONTAMINATED _____

B. ☐ NON-CONTAMINATED _____

7. RELEASE STATUS:

A. ☐ No Release (Go to Item 11)
 B. ☐ Potential (Possible) release

C. ☐ A Release is occurring --expected duration _____
 D. ☐ A Release occurred, but stopped-- duration _____

8. *RELEASE RATE

A. ☐ NOBLE GASES: _____ Curies per second
 B. ☐ IODINES: _____ Curies per second
 C. ☐ Release within normal operating limits.

☐ Measured ☐ Default
☐ Measured ☐ Default

9. *TYPE OF RELEASE IS (Blanks are for specific nuclides if available, i.e., I-131, Cs-137, etc.)

A. ☐ Radioactive gases _____
 B. ☐ Radioactive airborne particulates _____

C. ☐ Radioactive liquids _____
 D. ☐ Other _____

10. *PROJECTED OFFSITE DOSE RATE

DISTANCE

1 MILE (Site Boundary)
 2 MILES
 5 MILES
 10 MILES

THYROID DOSE RATE (CDE)

_____ mrem/hr
 _____ mrem/hr
 _____ mrem/hr
 _____ mrem/hr

TOTAL DOSE RATE (TEDE)

_____ mrem/hr
 _____ mrem/hr
 _____ mrem/hr
 _____ mrem/hr

11. METEOROLOGICAL DATA

A. Wind direction (from) _____ degrees.
 B. Sectors affected _____

C. Wind speed _____ MPH
 D. Stability class _____

12. UTILITY RECOMMENDED PROTECTIVE ACTIONS:

A. ☐ No recommendations at this time.

B. ☐ Notify the public to take the following protective actions:

(Note: If message refers to 360° radius, use the word "ALL" under sectors.)

MILES

NO ACTION

SHELTER/SECTORS

EVACUATE/SECTORS

0--2

2--5

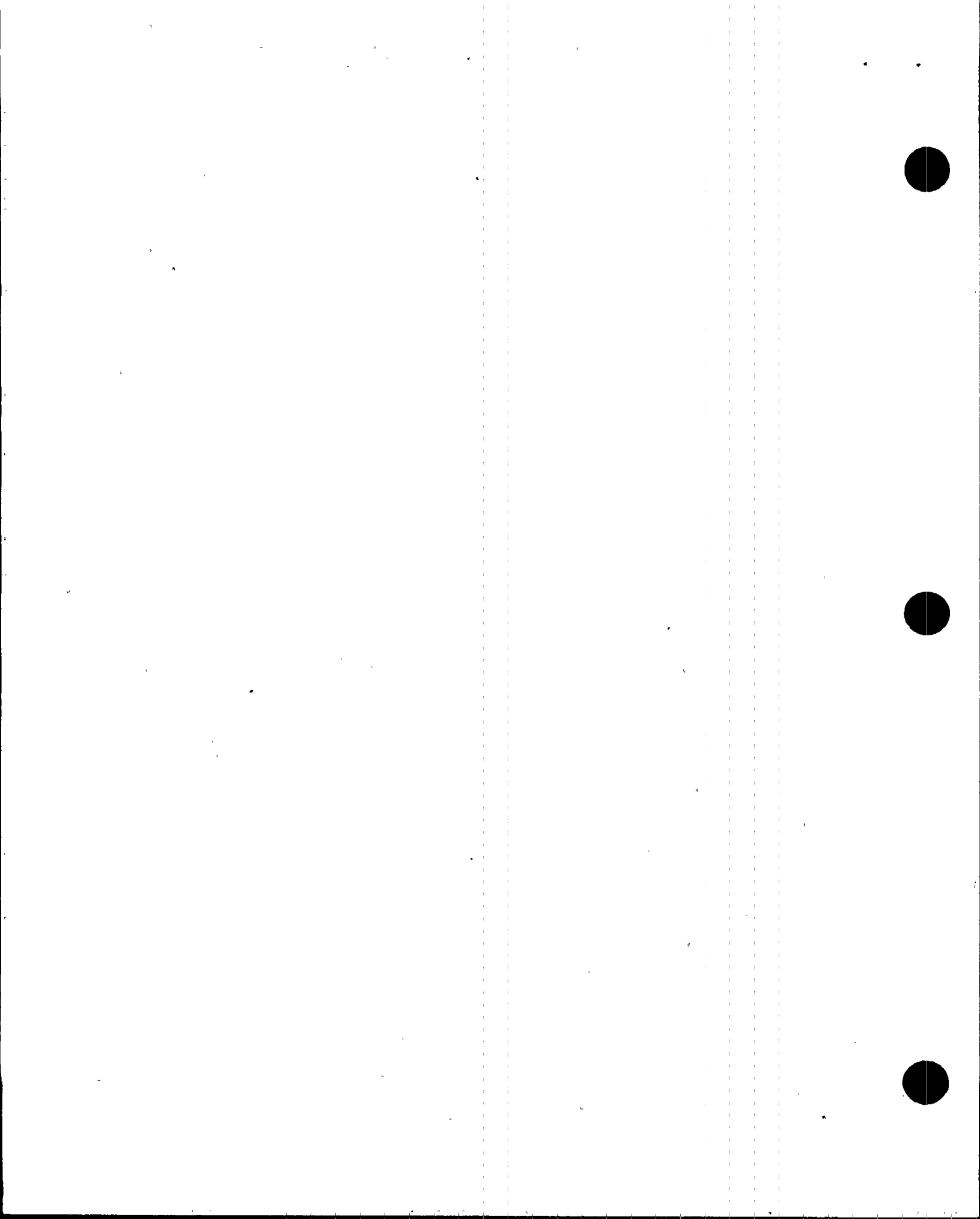
5--10

13. HAS EVENT BEEN TERMINATED?: A. ☐ NO B. ☐ YES: TIME _____ DATE _____

RM/EC Approval: _____ Time: _____ Date: _____

14. MESSAGE RECEIVED BY: Name _____ Time: _____ Date: _____

* This information may not be available on initial notifications.



DUTIES OF EMERGENCY COORDINATORSECTOR REFERENCE:

The chart below can be used to determine sectors affected by a radiological release, through comparison with wind direction from the meteorological recorders in the Control Room.

If the wind direction is directly on the edge of two sectors (e.g., 11°, 33°, 56°, etc.), an additional sector should be added to the protective action recommendations. For example, if the wind direction is from 78°, then the affected sectors for PARs should be L, M, N, and P.

Sector Information:

WIND SECTOR	WIND FROM	DEGREES	WIND TOWARD	SECTORS AFFECTED
[A]	N	348 - 11	S	H J K
[B]	NNE	11 - 33	SSW	J K L
[C]	NE	33 - 56	SW	K L M
[D]	ENE	56 - 78	WSW	L M N
[E]	E	78 - 101	W	M N P
[F]	ESE	101 - 123	WNW	N P Q
[G]	SE	123 - 146	NW	P Q R
[H]	SSE	146 - 168	NNW	Q R A
[J]	S	168 - 191	N	R A B
[K]	SSW	191 - 213	NNE	A B C
[L]	SW	213 - 236	NE	B C D
[M]	WSW	236 - 258	ENE	C D E
[N]	W	258 - 281	E	D E F
[P]	WNW	281 - 303	ESE	E F G
[Q]	NW	303 - 326	SE	F G H
[R]	NNW	326 - 348	SSE	G H J

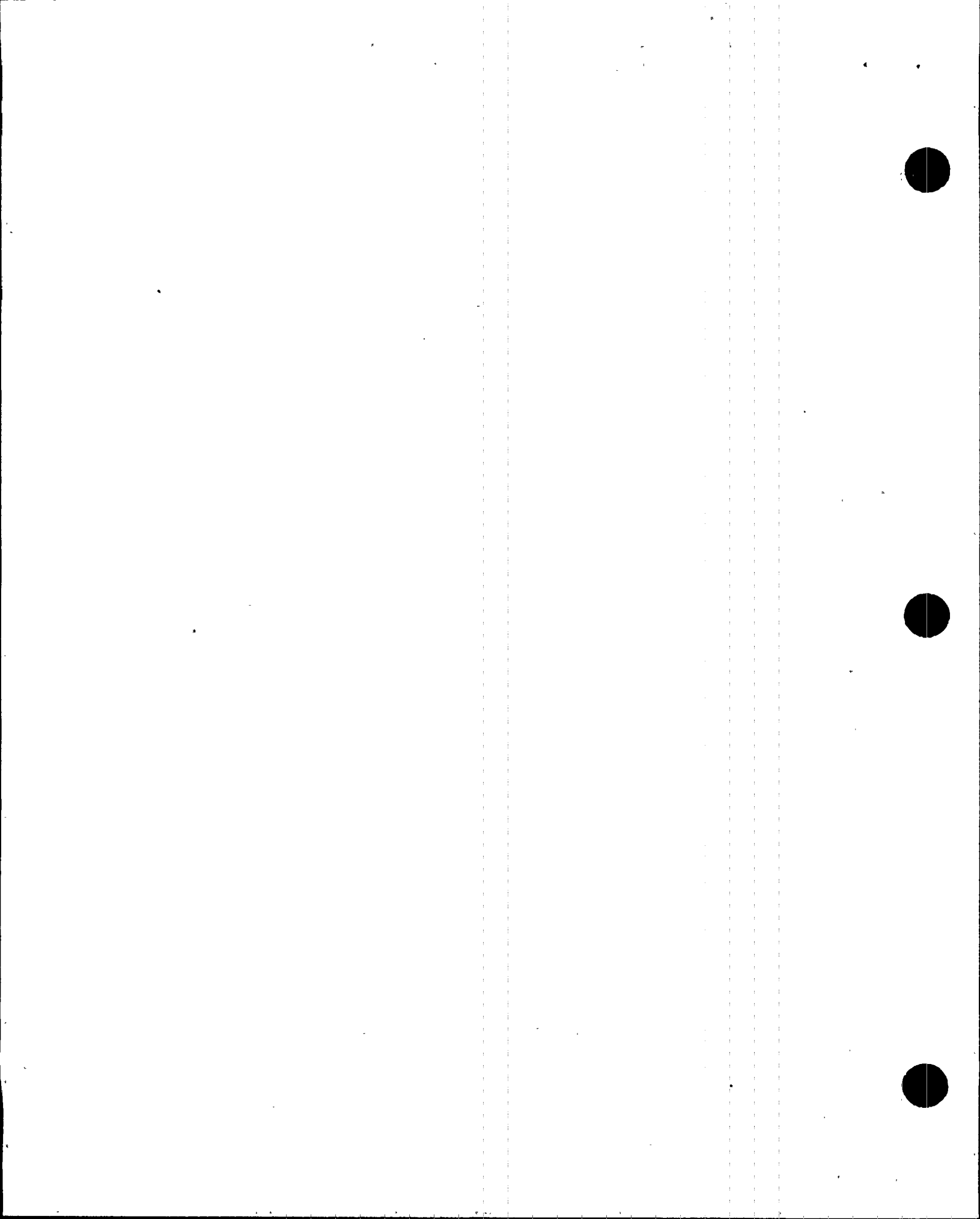
STABILITY CLASSIFICATION REFERENCE:

The below chart can be used to determine atmospheric stability classification for notification to the State of Florida. Primary method is from ΔT via the South Dade (60 meter) tower. Backup method is from Sigma Theta via the Ten Meter Tower. If neither meteorological tower is available, Stability Classification shall be determined using data from National Weather Service. (See EPIP-20126, Off-Site Dose Calculations).

CLASSIFICATION OF ATMOSPHERIC STABILITY

Stability Classification	Pasquill Categories	Primary Delta T (°F)	Backup Sigma Theta Range (Degrees)
Extremely unstable	A	$\Delta T \leq -1.7$	22.5 or more
Moderately unstable	B	$-1.7 < \Delta T \leq -1.5$	17.5 to 22.4
Slightly unstable	C	$-1.5 < \Delta T \leq -1.4$	12.5 to 17.4
Neutral	D	$-1.4 < \Delta T \leq -0.5$	7.5 to 12.4
Slightly stable	E	$-0.5 < \Delta T \leq 1.4$	3.8 to 7.4
Moderately stable	F	$1.4 < \Delta T \leq 3.6$	2.1 to 3.7
Extremely stable	G	$3.6 < \Delta T$	2.0 or less

Meteorological information needed to fill out Section II on the Notification Message Form is available from the Dose calculation Worksheet (EPIP-20126). The worksheet shall be filled out by Chemistry and given to the Emergency Coordinator.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 73
DUTIES OF EMERGENCY COORDINATOR

NRC FORM 361

US NUCLEAR REGULATORY COMMISSION
OPERATIONS CENTER

EVENT NOTIFICATION WORKSHEET

NOTIFICATION TIME	FACILITY OR ORGANIZATION	UNIT	CALLERS NAME	CALL BACK: ENS _____ OR () _____
EVENT TIME & ZONE	EVENT DATE / /	1-Hr Non-Emergency 10 CFR 50.72 (b) (1)		(v) Lost Offsite Comms
		(i) (A) TS Required S/D		(vi) Fire
POWER MODE BEFORE	POWER MODE AFTER	(i) (B) TS Deviation		(vi) Toxic Gas
		(iii) Degraded Condition		(vi) Rad Release
Event Classifications		(ii) (A) Unanalyzed Condition		4-Hr Non-Emergency 10 CFR 50.72 (b) (2)
		(ii) (B) Outside Design Basis		
		(ii) (C) Not Covered by OPs/EOPs		(i) Degrade While S/D
GENERAL EMERGENCY		(iii) Earthquake		(ii) RPS Actuation (Scram)
SITE AREA EMERGENCY		(iii) Flood		(ii) ESF Actuation
ALERT		(iii) Hurricane		(iii) (A) Safe S/D Capability
UNUSUAL EVENT		(iii) Ice/Hail		(iii) (B) Rhr Capability
50.72 NON-EMERGENCY		(iii) Lighting		(iii) (C) Control of Rad Release
PHYSICAL SECURITY (73.71)		(iii) Tornado		(iii) (D) Accident Mitigation
TRANSPORTATION		(iii) Other Natural Phenomenon		(iv) (A) Air Release > 2X App B
20.403 MATERIAL/EXPOSURE		(iv) ECCS Discharge to RCS		(iv) (B) Liq Release > 2X App B
OTHER		(v) Lost ENS		(v) Offsite Medical
		(v) Lost Emerg. Assessment		(vi) Offsite Notification

DESCRIPTION

Include: Systems affected, actuations & their initiating signals, causes, effect of event on plant, actions taken or planned, etc.

NOTIFICATIONS NRC RESIDENT	YES	NO	WILL BE	ANYTHING UNUSUAL OR NOT UNDERSTOOD?	YES (Explain above)	NO
STATE(s)				DID ALL SYSTEMS FUNCTION AS REQUIRED?	YES	NO (Explain above)
LOCAL						
OTHER GOV AGENCIES				MODE OF OPERATION UNTIL CORRECTED	ESTIMATE FOR RESTART DATE:	ADDITION INFO ON BACK?

EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 74
DUTIES OF EMERGENCY COORDINATOR

NRC FORM 361

ADDITIONAL INFORMATION

USNRC OPERATIONS CENTER

RADIOLOGICAL RELEASES CHECK OR FILL IN APPLICABLE ITEMS *(specific details/explanations should be covered in event description)*

<input type="checkbox"/> LIQUID RELEASE	<input type="checkbox"/> GASEOUS RELEASE	<input type="checkbox"/> UNPLANNED RELEASE	<input type="checkbox"/> PLANNED RELEASE	<input type="checkbox"/> ONGOING	<input type="checkbox"/> TERMINATED
<input type="checkbox"/> MONITORED	<input type="checkbox"/> UNMONITORED	<input type="checkbox"/> OFFSITE RELEASE	<input type="checkbox"/> T.S. EXCEEDED	<input type="checkbox"/> RM ALARMS	<input type="checkbox"/> AREAS EVACUATED
<input type="checkbox"/> PERSONNEL EXPOSED OR CONTAMINATED		<input type="checkbox"/> OFFSITE PROTECTIVE ACTIONS RECOMMENDED		<input type="checkbox"/> *State release path in description	

	Release Rate (Ci/sec)	% T.S. LIMIT	HOO GUIDE	Total Activity (Ci)	% T.S. LIMIT	HOO GUIDE
Noble Gas			0.1 Ci/sec			1000 Ci
Iodine			10 uCi/sec			0.01 Ci
Particulate			1 uCi/sec			1 mCi
Liquid (excluding tritium & dissolved noble gases)			10 uCi/min			0.1 Ci
Liquid (tritium)			0.2 Ci/min			5 Ci
Total Activity						

	PLANT STACK	CONDENSER/AIR EJECTOR	MAIN STEAM LINE	SG BLOWDOWN	OTHER
RAD MONITOR READINGS:					
ALARM SETPOINTS:					
% T.S. LIMIT (If applicable)					

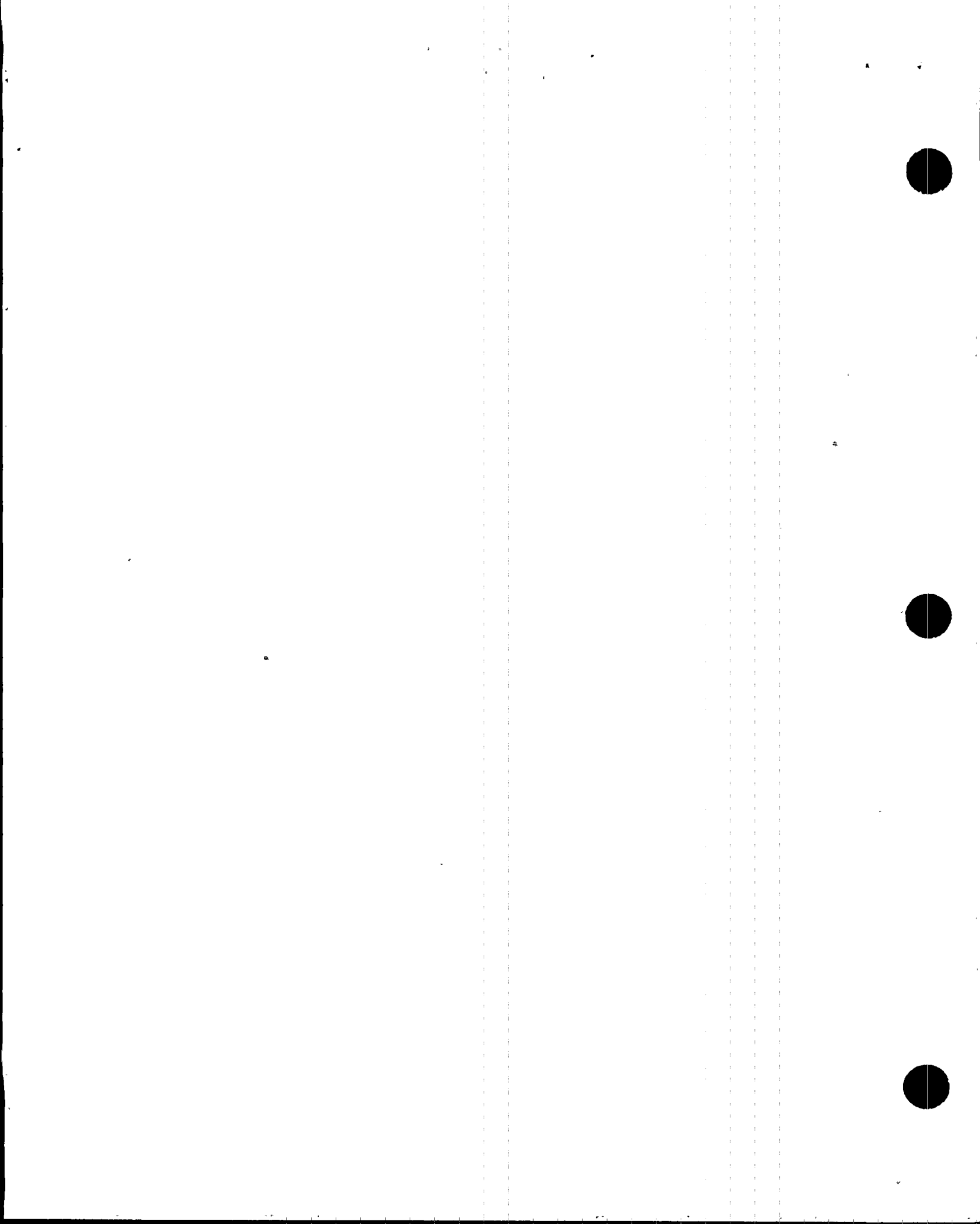
RCS OR SG TUBE LEAKS CHECK OR FILL IN APPLICABLE ITEMS: *(specific details/explanations should be covered in event description)*

LOCATION OF THE LEAK (e.g., SG #, valve, pipe, etc):

LEAK RATE:	UNITS: gpm/gpd	T.S. Limits:	SUDDEN OR LONG TERM DEVELOPMENT:
LEAK START DATE:	TIME:	COOLANT ACTIVITY & UNITS: PRIMARY -	SECONDARY -

LIST OF SAFETY RELATED EQUIPMENT NOT OPERATIONAL:

EVENT DESCRIPTION *(Continued from front)*

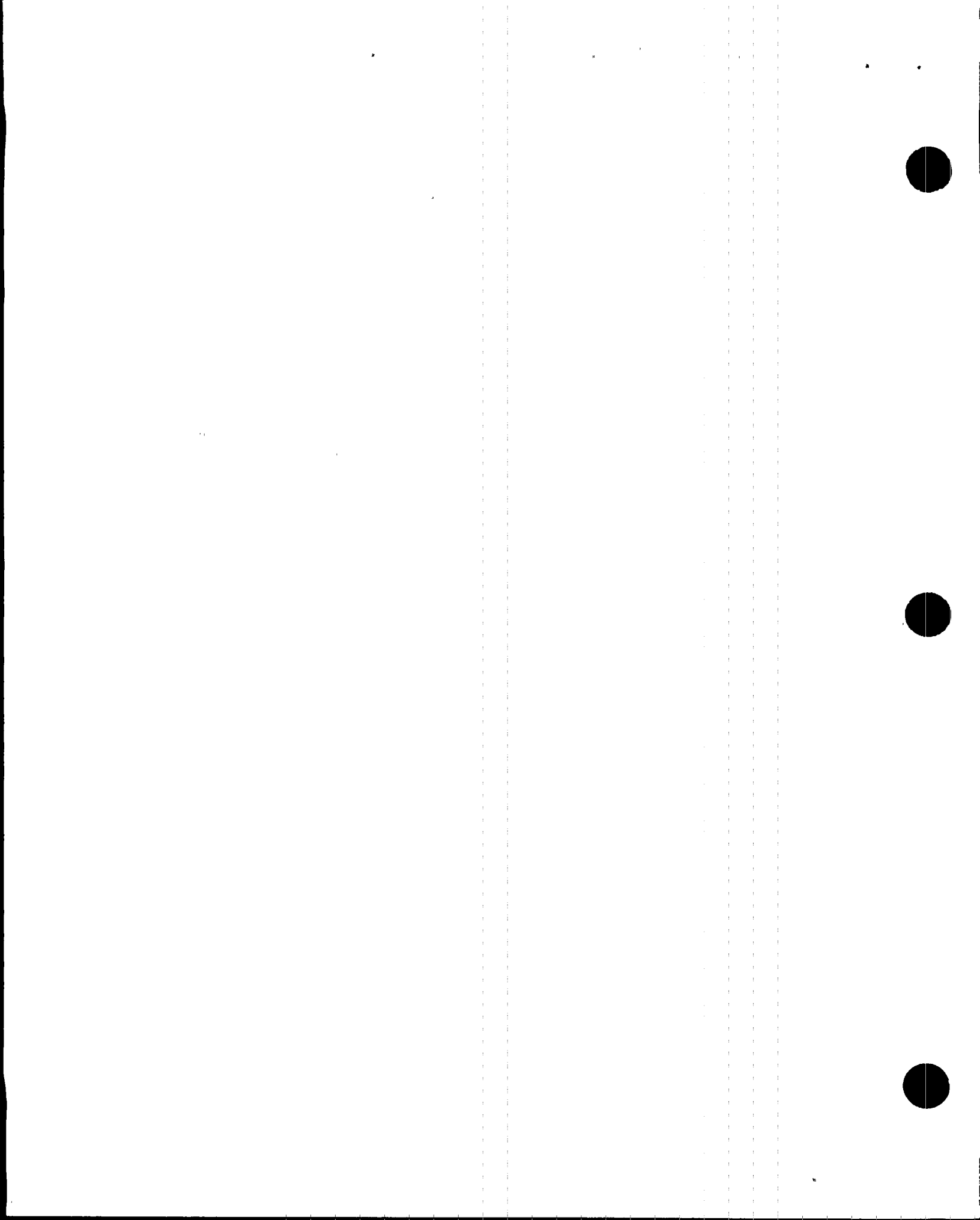


EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 75
DUTIES OF EMERGENCY COORDINATOR

Time _____

- 8.6.12 Notify the Nuclear Division Duty Officer (NDDO). If on duty |
NDDO cannot be reached, notify any NDDO, or RM. See the |
NDDO Schedule or the Emergency Response Directory for |
telephone numbers, and relay applicable information from |
the State of Florida Notification Message Form. |
- 8.6.13 If the Onsite Emergency Response Facilities (TSC/QSC)
operational consider Emergency Coordinator transfer to TSC.
- 8.6.14 If the EOF is operational relinquish communication
responsibilities with offsite agencies to Recovery Manager at
EOF.
- 8.6.15 Determine the status of the Owner Controlled Area Evacuation.
Security has 30 minutes to provide a list of names of personnel
not yet accounted for inside the Protected Area.
- 8.6.16 Reassess plant conditions using Table 1 and Table 2
periodically.
- CAUTION: If the EOF is operational and the emergency has been
upgraded, it is imperative that the Recovery Manager be
notified concurrently with the declaration. This will
ensure that the 15 minute notification time limit is not
missed.
- 8.6.17 If upgrading Emergency Classification, proceed to applicable
section of this procedure per Table 1, and if the EOF is
operational, notify the Recovery Manager promptly.
- 8.6.18 Every hour, upon termination, or as conditions change, provide
notifications to the following if notification responsibilities
are with the Emergency Coordinator Onsite:

1. Complete a State of Florida Notification Message Form
2. The Emergency Coordinator shall initial the form prior to
transmitting the information to verify Emergency
Coordinator approval.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 76
DUTIES OF EMERGENCY COORDINATOR

Time _____

3. Notify the following of the new information:

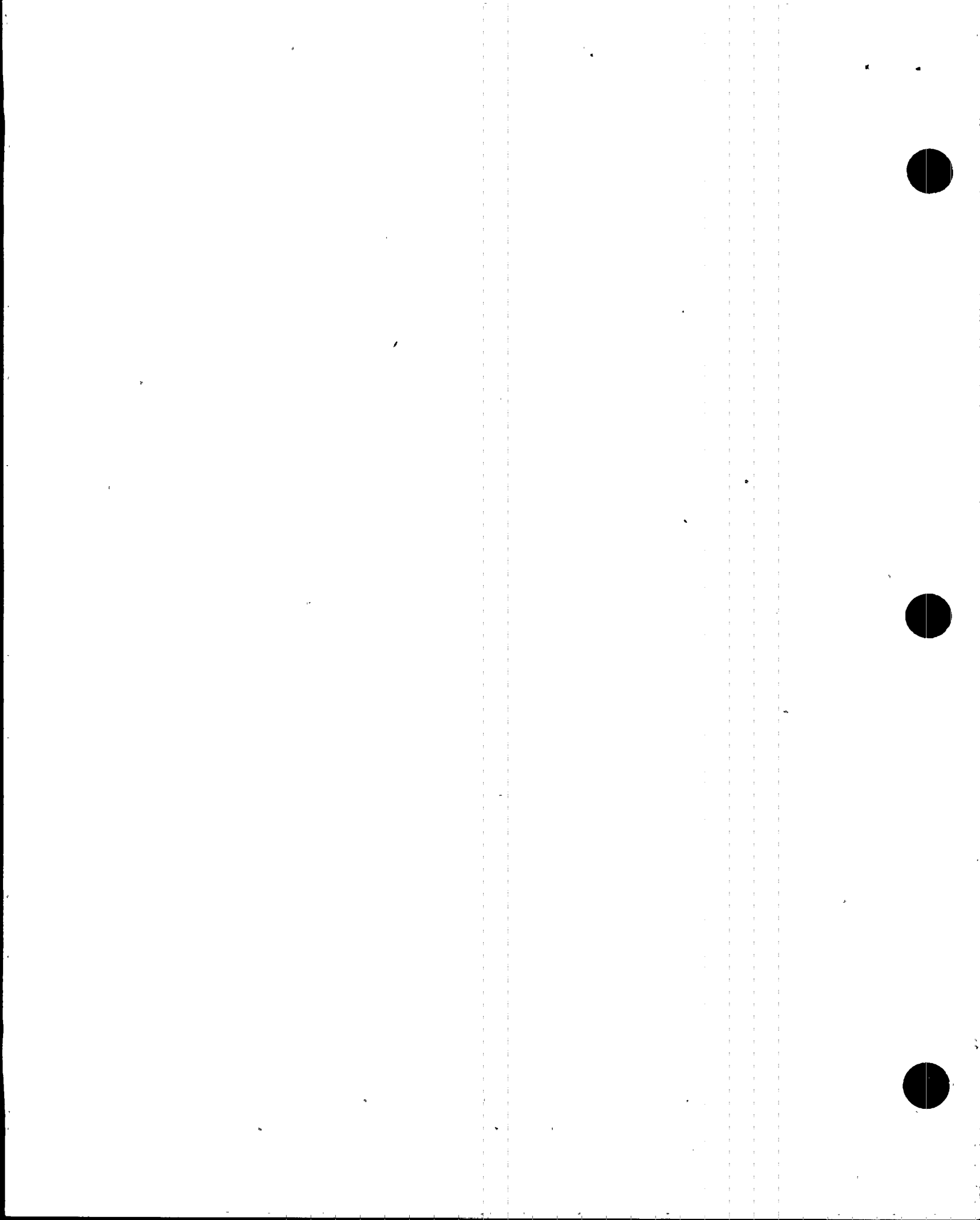
- a. State Warning Point
- b. NDDO
- c. Duty Call Supervisor
- d. Recovery Manager

4. Complete an Event Notification Worksheet Form.

5. Notify the NRCOC with the new information.

8.6.19 Using Attachment 1, De-Escalation Guidelines determine if the emergency can be de-escalated or terminated.

8.6.20 If conditions warrant, recommend de-escalation of Site Area Emergency to RM. (Any de-escalation from Site Area Emergency shall be determined by the RM.)



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 77
DUTIES OF EMERGENCY COORDINATOR

STATE OF FLORIDA NOTIFICATION MESSAGE FORM FOR NUCLEAR POWER PLANTS

☐ THIS IS A DRILL

☐ THIS IS AN ACTUAL EMERGENCY

1. A. Time/Date _____ B. Reported by (Name/Title) _____
 C. Message Number _____ D. From: ☐ Control Room ☐ TSC ☐ EOF

2. SITE ☐ CRYSTAL RIVER UNIT 3 ☐ ST LUCIE UNIT 1 ☐ TURKEY POINT UNIT 3
☐ ST LUCIE UNIT 2 ☐ TURKEY POINT UNIT 4

3. ACCIDENT CLASSIFICATION

☐ NOTIFICATION OF UNUSUAL EVENT
☐ ALERT

☐ SITE AREA EMERGENCY
☐ GENERAL EMERGENCY

4. CURRENT EMERGENCY DECLARATION: TIME: _____ DATE: _____

5. INCIDENT DESCRIPTION OR UPDATE _____

6. INJURIES A. ☐ CONTAMINATED _____ B. ☐ NON-CONTAMINATED _____

7. RELEASE STATUS:

A. ☐ No Release (Go to Item 11)
 B. ☐ Potential (Possible) release

C. ☐ A Release is occurring --expected duration _____
 D. ☐ A Release occurred, but stopped-- duration _____

8. *RELEASE RATE A. ☐ NOBLE GASES: _____ Curies per second ☐ Measured ☐ Default
 B. ☐ IODINES: _____ Curies per second ☐ Measured ☐ Default
 C. ☐ Release within normal operating limits.

9. *TYPE OF RELEASE IS (Blanks are for specific nuclides if available, i.e., I-131, Cs-137, etc.)

A. ☐ Radioactive gases _____ C. ☐ Radioactive liquids _____
 B. ☐ Radioactive airborne particulates _____ D. ☐ Other _____

10. *PROJECTED OFFSITE DOSE RATE

DISTANCE

1 MILE (Site Boundary)
 2 MILES
 5 MILES
 10 MILES

THYROID DOSE RATE (CDE)

_____ mrem/hr
 _____ mrem/hr
 _____ mrem/hr
 _____ mrem/hr

TOTAL DOSE RATE (TEDE)

_____ mrem/hr
 _____ mrem/hr
 _____ mrem/hr
 _____ mrem/hr

11. METEOROLOGICAL DATA

A. Wind direction (from) _____ degrees.
 B. Sectors affected _____

C. Wind speed _____ MPH
 D. Stability class _____

12. UTILITY RECOMMENDED PROTECTIVE ACTIONS:

A. ☐ No recommendations at this time.

B. ☐ Notify the public to take the following protective actions:

(Note: If message refers to 360° radius, use the word "ALL" under sectors.)

MILES

0--2

2--5

5--10

NO ACTION

SHELTER/SECTORS

EVACUATE/SECTORS

13. HAS EVENT BEEN TERMINATED?: A. ☐ NO B. ☐ YES: TIME _____ DATE _____

RM/EC Approval: _____ Time: _____ Date: _____

14. MESSAGE RECEIVED BY: Name _____ Time: _____ Date: _____

* This information may not be available on initial notifications.



DUTIES OF EMERGENCY COORDINATORSECTOR REFERENCE:

The chart below can be used to determine sectors affected by a radiological release, through comparison with wind direction from the meteorological recorders in the Control Room.

If the wind direction is directly on the edge of two sectors (e.g., 11°, 33°, 56°, etc.), an additional sector should be added to the protective action recommendations. For example, if the wind direction is from 78°, then the affected sectors for PARs should be L, M, N, and P.

Sector Information:

WIND SECTOR	WIND FROM	DEGREES	WIND TOWARD	SECTORS AFFECTED
[A]	N	348 - 11	S	H J K
[B]	NNE	11 - 33	SSW	J K L
[C]	NE	33 - 56	SW	K L M
[D]	ENE	56 - 78	WSW	L M N
[E]	E	78 - 101	W	M N P
[F]	ESE	101 - 123	WNW	N P Q
[G]	SE	123 - 146	NW	P Q R
[H]	SSE	146 - 168	NNW	Q R A
[J]	S	168 - 191	N	R A B
[K]	SSW	191 - 213	NNE	A B C
[L]	SW	213 - 236	NE	B C D
[M]	WSW	236 - 258	ENE	C D E
[N]	W	258 - 281	E	D E F
[P]	WNW	281 - 303	ESE	E F G
[Q]	NW	303 - 326	SE	F G H
[R]	NNW	326 - 348	SSE	G H J

STABILITY CLASSIFICATION REFERENCE:

The below chart can be used to determine atmospheric stability classification for notification to the State of Florida. Primary method is from ΔT via the South Dade (60 meter) tower. Backup method is from Sigma Theta via the Ten Meter Tower. If neither meteorological tower is available, Stability Classification shall be determined using data from National Weather Service (See EPIP-20126, Off-Site Dose Calculations).

CLASSIFICATION OF ATMOSPHERIC STABILITY

Stability Classification	Pasquill Categories	Primary Delta T (°F)	Backup Sigma Theta Range (Degrees)
Extremely unstable	A	$\Delta T \leq -1.7$	22.5 or more
Moderately unstable	B	$-1.7 < \Delta T \leq -1.5$	17.5 to 22.4
Slightly unstable	C	$-1.5 < \Delta T \leq -1.4$	12.5 to 17.4
Neutral	D	$-1.4 < \Delta T \leq -0.5$	7.5 to 12.4
Slightly stable	E	$-0.5 < \Delta T \leq 1.4$	3.8 to 7.4
Moderately stable	F	$1.4 < \Delta T \leq 3.6$	2.1 to 3.7
Extremely stable	G	$3.6 < \Delta T$	2.0 or less

Meteorological information needed to fill out Section II on the Notification Message Form is available from the Dose calculation Worksheet (EPIP-20126). The worksheet shall be filled out by Chemistry and given to the Emergency Coordinator.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 79
DUTIES OF EMERGENCY COORDINATOR

NRC FORM 361

US NUCLEAR REGULATORY COMMISSION
OPERATIONS CENTER

EVENT NOTIFICATION WORKSHEET

NOTIFICATION TIME	FACILITY OR ORGANIZATION	UNIT	CALLERS NAME	CALL BACK: ENS _____ OR () _____
EVENT TIME & ZONE	EVENT DATE / /	1-Hr Non-Emergency 10 CFR 50.72 (b) (1)		(v) Lost Offsite Comms
POWER MODE BEFORE	POWER MODE AFTER	(i) (A) TS Required S/D		(vi) Fire
		(i) (B) TS Deviation		(vi) Toxic Gas
		(iii) Degraded Condition		(vi) Rad Release
		(ii) (A) Unanalyzed Condition		(vi) Oth Hampering Safe Op
Event Classifications		(ii) (B) Outside Design Basis		4-Hr Non-Emergency 10 CFR 50.72 (b) (2)
		(ii) (C) Not Covered by OPs/EOPs		(i) Degrade While S/D
GENERAL EMERGENCY		(iii) Earthquake		(ii) RPS Actuation (Scram)
SITE AREA EMERGENCY		(iii) Flood		(ii) ESF Actuation
ALERT		(iii) Hurricane		(iii) (A) Safe S/D Capability
UNUSUAL EVENT		(iii) Ice/Hail		(iii) (B) Rhr Capability
50.72 NON-EMERGENCY		(iii) Lighting		(iii) (C) Control of Rad Release
PHYSICAL SECURITY (73.71)		(iii) Tornado		(iii) (D) Accident Mitigation
TRANSPORTATION		(iii) Other Natural Phenomenon		(iv) (A) Air Release > 2X App B
20.403 MATERIAL/EXPOSURE		(iv) ECCS Discharge to RCS		(iv) (B) Liq Release > 2X App B
OTHER		(v) Lost ENS		(v) Offsite Medical
		(v) Lost Emerg. Assessment		(vi) Offsite Notification

DESCRIPTION

Include: Systems affected, actuations & their initiating signals, causes, effect of event on plant, actions taken or planned, etc.

NOTIFICATIONS NRC RESIDENT	YES	NO	WILL BE	ANYTHING UNUSUAL OR NOT UNDERSTOOD?	YES (Explain above)	NO
STATE(s)				DID ALL SYSTEMS FUNCTION AS REQUIRED?	YES	NO (Explain above)
LOCAL						
OTHER GOV AGENCIES				MODE OF OPERATION UNTIL CORRECTED	ESTIMATE FOR RESTART DATE:	ADDITION INFO ON BACK?

EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 80
DUTIES OF EMERGENCY COORDINATOR

NRC FORM 361 **ADDITIONAL INFORMATION** USNRC OPERATIONS CENTER

RADIOLOGICAL RELEASES. CHECK OR FILL IN APPLICABLE ITEMS (<i>specific details/explanations should be covered in event description</i>)							
<input type="checkbox"/> LIQUID RELEASE	<input type="checkbox"/> GASEOUS RELEASE	<input type="checkbox"/> UNPLANNED RELEASE	<input type="checkbox"/> PLANNED RELEASE	<input type="checkbox"/> ONGOING	<input type="checkbox"/> TERMINATED		
<input type="checkbox"/> MONITORED	<input type="checkbox"/> UNMONITORED	<input type="checkbox"/> OFFSITE RELEASE	<input type="checkbox"/> T.S. EXCEEDED	<input type="checkbox"/> RM ALARMS	<input type="checkbox"/> AREAS EVACUATED		
<input type="checkbox"/> PERSONNEL EXPOSED OR CONTAMINATED		<input type="checkbox"/> OFFSITE PROTECTIVE ACTIONS RECOMMENDED		<input type="checkbox"/> *State release path in description			
	Release Rate (Ci/sec)	% T.S. LIMIT	HOO GUIDE	Total Activity (Ci)	% T.S. LIMIT	HOO GUIDE	
Noble Gas			0.1 Ci/sec			1000 Ci	
Iodine			10 uCi/sec			0.01 Ci	
Particulate			1 uCi/sec			1 mCi	
Liquid (excluding tritium & dissolved noble gases)			10 uCi/min			0.1 Ci	
Liquid (tritium)			0.2 Ci/min			5 Ci	
Total Activity							
	PLANT STACK	CONDENSER/AIR EJECTOR	MAIN STEAM LINE	SG BLOWDOWN	OTHER		
RAD MONITOR READINGS:							
ALARM SETPOINTS:							
% T.S. LIMIT (If applicable)							
RCS OR SG TUBE LEAKS CHECK OR FILL IN APPLICABLE ITEMS: (<i>specific details/explanations should be covered in event description</i>)							
LOCATION OF THE LEAK (e.g., SG #, valve, pipe, etc):							
LEAK RATE:		UNITS: gpm/gpd	T.S. Limits:	SUDDEN OR LONG TERM DEVELOPMENT:			
LEAK START DATE:		TIME:	COOLANT ACTIVITY & UNITS: PRIMARY -		SECONDARY -		
LIST OF SAFETY RELATED EQUIPMENT NOT OPERATIONAL:							
<p align="center">EVENT DESCRIPTION (<i>Continued from front</i>)</p>							



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 81
DUTIES OF EMERGENCY COORDINATOR

Time

- 8.7 If a General Emergency has been declared, complete the following steps:

CAUTION: De-escalation from a General Emergency must be done in concurrence with the RM.

NOTE: Notification steps may be performed out of sequence in order to meet State of Florida and/or NRC notification time requirements.

- 8.7.1 The Emergency Log Book should be used to document sequence of events.

CAUTION: If a release or security events are in progress, inform emergency responders of access routes to Emergency Response Facilities. During off-hours, dispatch Security to route incoming emergency responders away from hazardous routes.

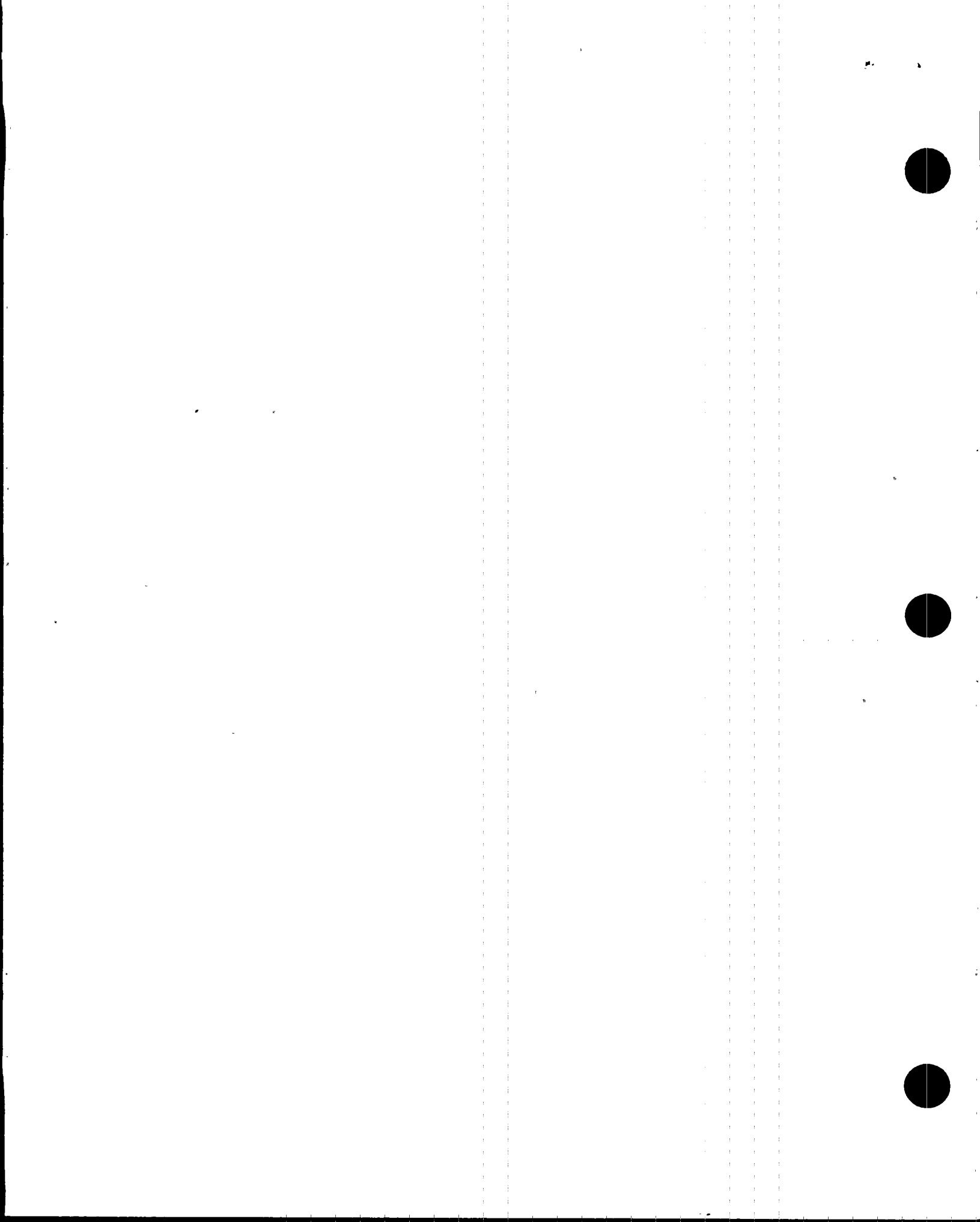
NOTE: Prescribed emergency announcements may be omitted or modified as directed by the Emergency Coordinator or his designee, to prevent alarming intruders if security events warrant.

- 8.7.2 Inform, or have the Control Room inform, site personnel of the emergency via Plant Page System using Page Volume Boost.

1. Make following announcement:

"Attention all personnel; attention all personnel: A General Emergency has been declared on Unit (#) due to (provide brief description of initiating event). All Emergency Response Organization members report to your designated Emergency Response Facility."

2. If not previously done, sound the Emergency Plan Activation alarm.
3. Repeat the announcement.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 82
DUTIES OF EMERGENCY COORDINATOR

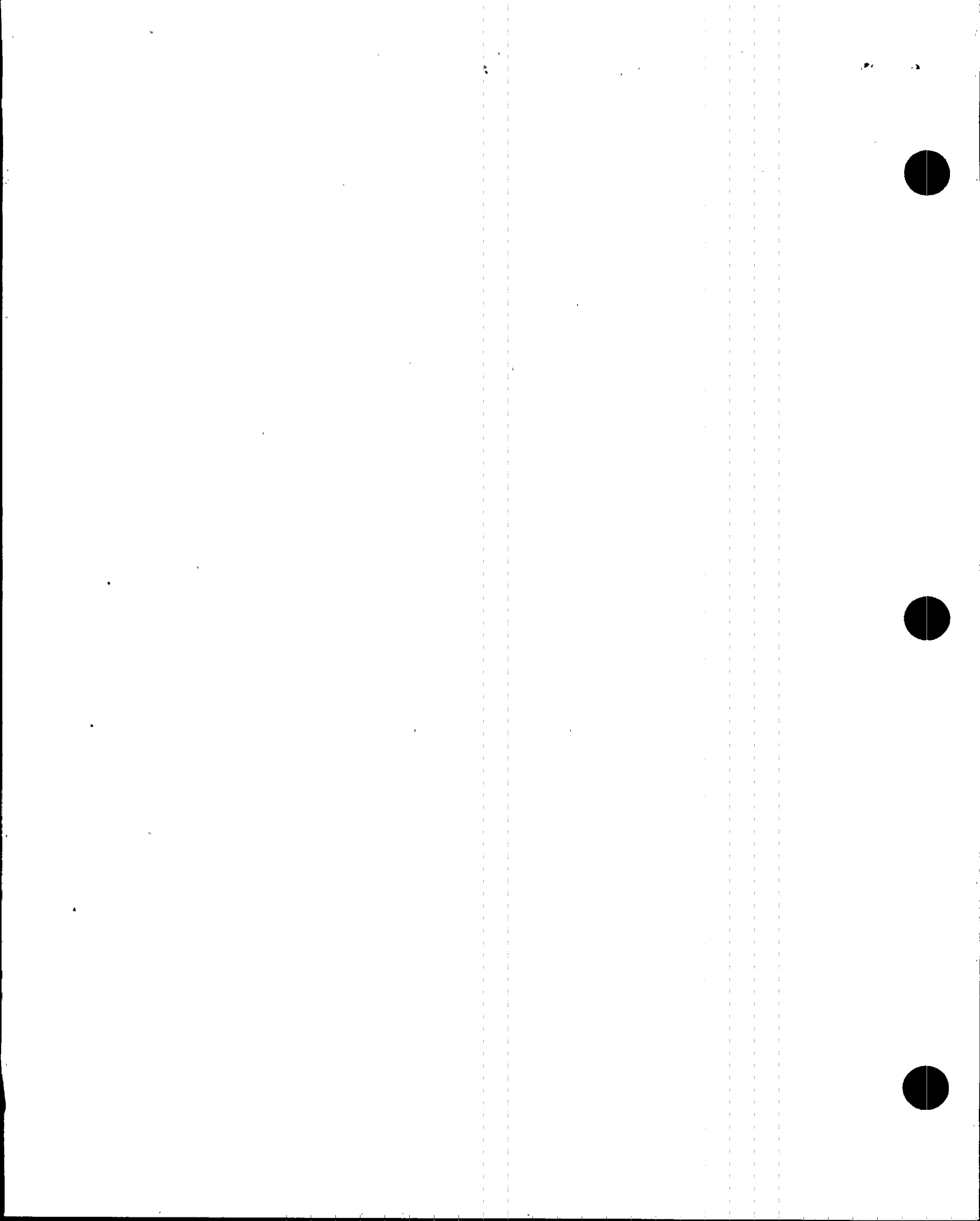
Time

CAUTIONS:

- RM approval is required prior to downgrading from a General Emergency.
- Radiological, security threats and plant conditions shall also be considered when preparing to evacuate personnel. If large doses will be received during an evacuation, or if security threats jeopardize evacuation routes, it may be more effective to shelter non-essential personnel onsite. Also, take into consideration duration of release, plant conditions, potential for release, and meteorological conditions.

8.7.3 Implement an Owner Controlled Area Evacuation if no significant hazards exist which may threaten evacuees.

1. If the TSC Health Physics Supervisor is available, discuss release status, release duration, and wind direction to determine applicable evacuation route and Offsite Assembly Area.
2. Notify the Security Shift Specialist for an evacuation of the Owner Controlled Area, including non-essential personnel from the Protected Area, and instruct them to implement EPIP-20110, Criteria for a conduct of an Owner Controlled Area Evacuation, and Security Force Instruction (SFI) 6307, Emergency Evacuation.
3. Notify the Watch Engineer of Units 1 and 2 of the Site Evacuation and instruct them to initiate a roster of personnel left in the fossil units for shutdown of the fossil units.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 83
DUTIES OF EMERGENCY COORDINATOR

Time _____

4. Inform, or have Control Room personnel inform, site personnel via Plant Page System and complete the following:

CAUTION: If significant release (process monitors offscale or other indications) and/or security related (intruders, bomb threat, etc) events are in progress, inform emergency responders. AND site evacuees of best access and egress routes to take from site to minimize hazards. During off-hours, dispatch Security to route incoming emergency responders away from hazardous routes.

- a. Make the following announcement using Page Volume Boost:

"Attention all personnel; attention all personnel: An Owner controlled Area Evacuation has been implemented. All Emergency Response Organization members report to your designated Emergency Response Facility. All other personnel evacuate to (designated Offsite Assembly Area) by (route to Offsite Assembly Area)"

- b. Sound the Site Evacuation Alarm.

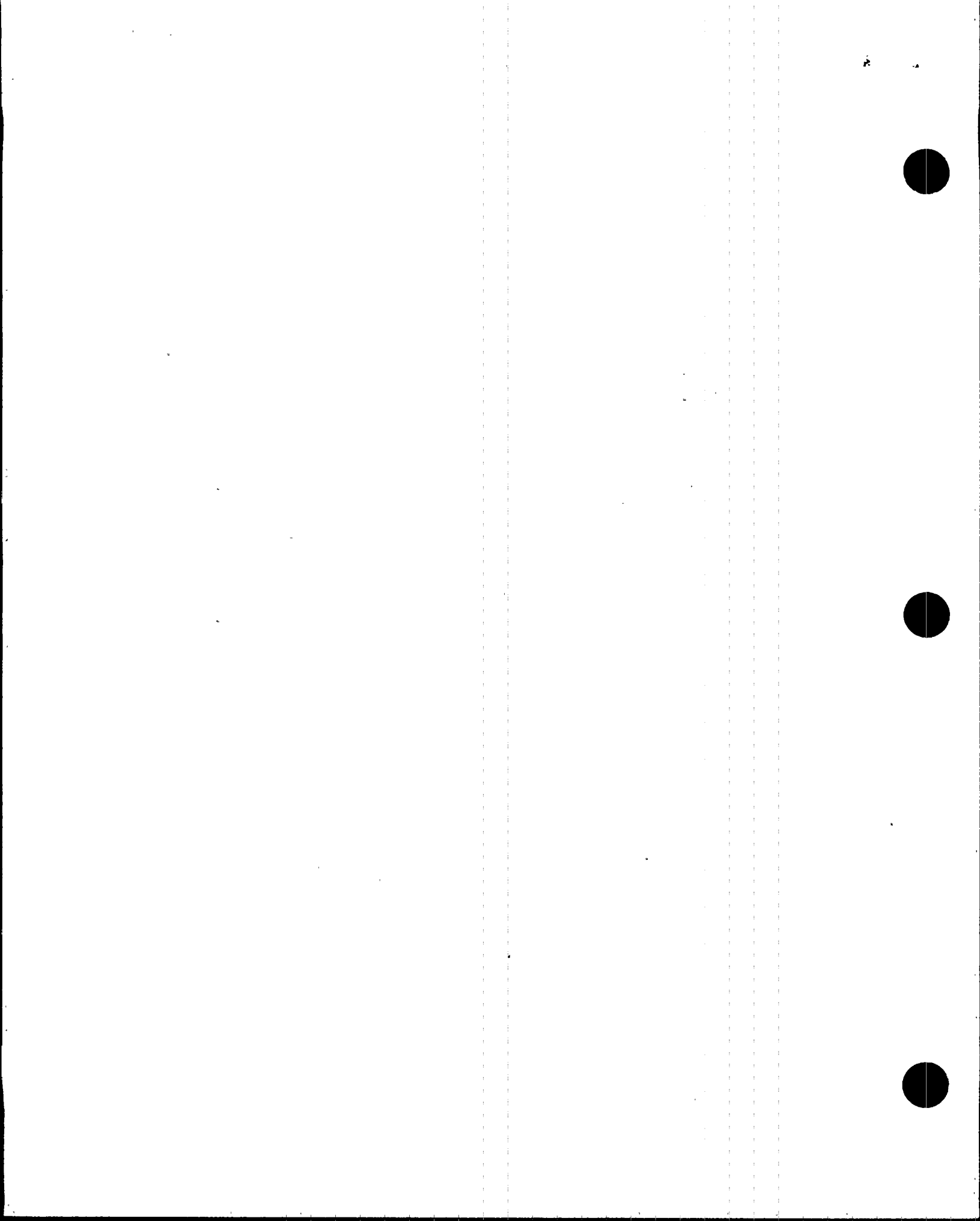
- c. Make the following announcement using Page Volume Boost:

"Attention all personnel; attention all personnel: An Owner Controlled Area Evacuation has been implemented. All Emergency Response Organization members report to your designated Emergency Response Facility. All other personnel evacuate to (designated Offsite Assembly Area) by (route to Offsite Assembly Area)"



DUTIES OF EMERGENCY COORDINATORTime

- 8.7.4 Notify the TSC Security Supervisor (Security Shift Specialist)
1. To discuss the potential for the suspension of all or some safeguards (Reference Step 3.2.4).
 2. Provide accountability information as needed (names and badge numbers).
- 8.7.5 If there is a localized emergency (fire, high radiation, toxic gas):
1. Determine an assembly area for personnel evacuated from the affected area.
 2. Announce its type and location, instruct personnel to stand clear and report to the designated assembly area.
 3. Sound applicable alarm, if not previously done.
 4. Announce its type and location, instruct personnel to stand clear and report to the designated assembly area.
 5. Initiate Search and Rescue as required.
- 8.7.6 If the Onsite Emergency Response Facilities are operational consider Emergency Coordinator transfer to TSC.
- NOTE: If plant events (radiological or security threat considerations) warrant, alternate facilities and/or routes to these facilities may be necessary. Refer to precautions.
- 8.7.7 If not previously done, instruct STA to initiate activation of the Onsite Emergency Response Facilities (ERF) per EPIP-20104.
- 8.7.8 Update onsite emergency responders of the emergency conditions.
- 8.7.9 If the EOF is operational relinquish communication responsibilities to offsite agencies to Recovery Manager at EOF.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 85
DUTIES OF EMERGENCY COORDINATOR

Time

CAUTIONS:

- Notification to the State Warning Point is required within 15 minutes of emergency classification.
- Notification to the NRCOC is required to immediately follow the State notification and no later than one (1) hour.
- Collection of Release Rate Data shall not delay State of Florida or NRC notifications.
- If a transitory event has occurred, notifications are still required using this procedure.

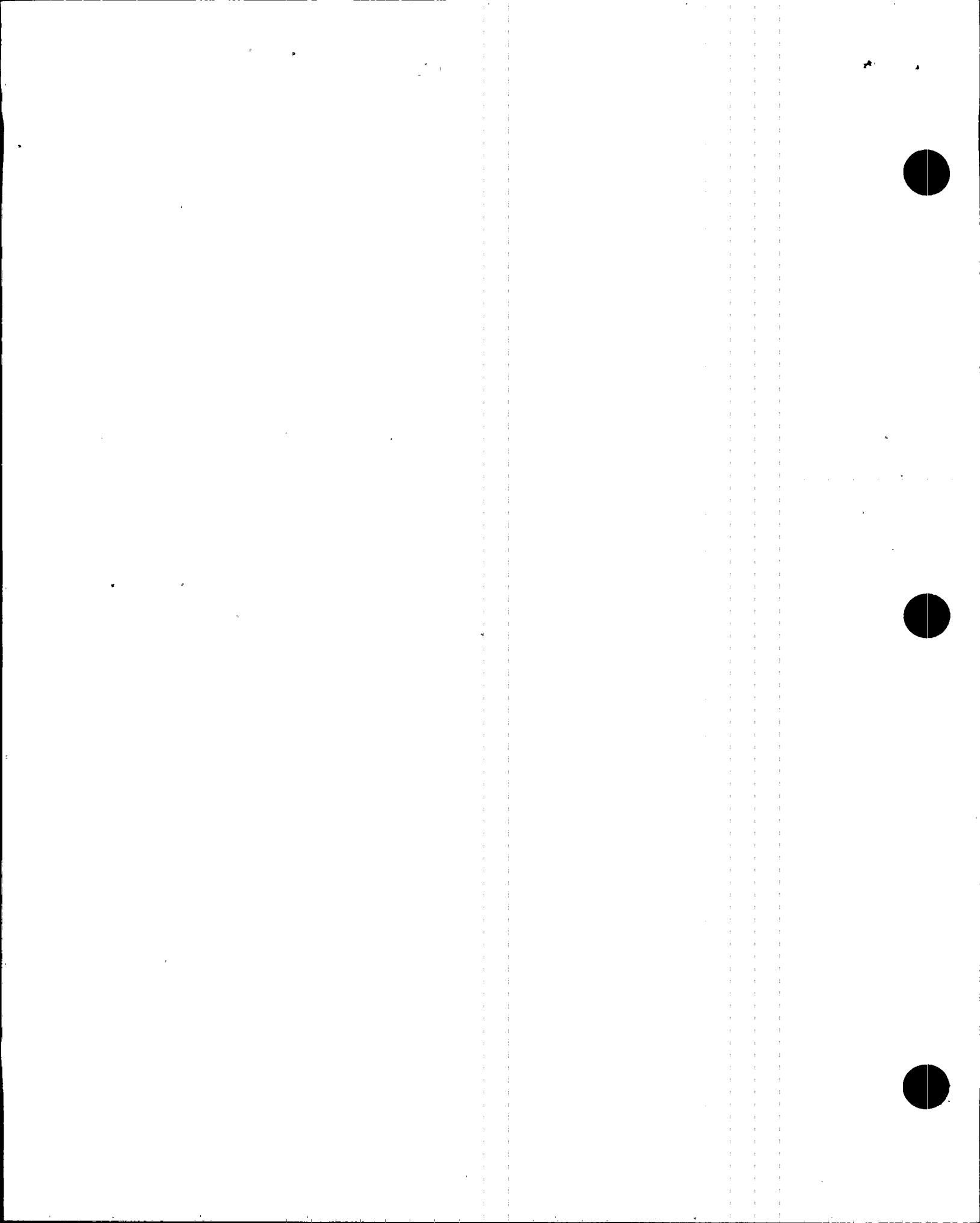
NOTE:

If during the notification process, it becomes necessary to upgrade the emergency classification;

1. ensure that the State Warning Point has been notified of the emergency declaration within 15 minutes of making the initial classification,
2. stop the current notification process, and
3. proceed to the steps corresponding to the new emergency classification, including notification of the new classification to the State Warning Point.

8.7.10 If offsite (State/County) notification responsibilities ARE with the Emergency Coordinator onsite, complete the following steps:

1. Complete the State of Florida Notification Message Form.
2. The Emergency Coordinator shall initial the form prior to transmitting the information to verify Emergency Coordinator approval.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 86
DUTIES OF EMERGENCY COORDINATOR

Time

NOTE: State Warning Point may request verification call back. If requested, they will call in on the black bell phone (ringmaster) or cellular phone in the Control Room.

3. Within 15 minutes of classifying the General Emergency notify the State Warning Point in Tallahassee and relay information from the State of Florida Notification Message Form just completed via one of the following:
 - a. Hot Ring Down Telephone
 - b. ESATCOM
 - c. Commercial Telephone (refer to ERD)
 - d. Cellular Phone (refer to ERD)
 - e. Local Government Radio
4. Complete an Event Notification Worksheet Form.
5. Immediately after the notification to State/County agencies of the General Emergency contact the NRCOC in Bethesda and relay the information from the Event Notification Worksheet just completed via one of the following:
 - a. ENS
 - b. Commercial Telephone (refer to ERD)
 - c. Cellular Telephone (refer to ERD)



DUTIES OF EMERGENCY COORDINATOR

STATE OF FLORIDA NOTIFICATION MESSAGE FORM FOR NUCLEAR POWER PLANTS

☐ THIS IS A DRILL☐ THIS IS AN ACTUAL EMERGENCY

1. A. Time/Date _____ B. Reported by (Name/Title) _____
 C. Message Number _____ D. From: ☐ Control Room ☐ TSC ☐ EOF

2. SITE ☐ CRYSTAL RIVER UNIT 3 ☐ ST LUCIE UNIT 1 ☐ TURKEY POINT UNIT 3
☐ ST LUCIE UNIT 2 ☐ TURKEY POINT UNIT 4

3. ACCIDENT CLASSIFICATION

- ☐ NOTIFICATION OF UNUSUAL EVENT
☐ ALERT

- ☐ SITE AREA EMERGENCY
☐ GENERAL EMERGENCY

4. CURRENT EMERGENCY DECLARATION: TIME: _____ DATE: _____

5. INCIDENT DESCRIPTION OR UPDATE

6. INJURIES A. ☐ CONTAMINATED _____ B. ☐ NON-CONTAMINATED _____

7. RELEASE STATUS:

- A. ☐ No Release (Go to Item 11)
 B. ☐ Potential (Possible) release

- C. ☐ A Release is occurring --expected duration _____
 D. ☐ A Release occurred, but stopped-- duration _____

8. *RELEASE RATE A. ☐ NOBLE GASES: _____ Curies per second ☐ Measured ☐ Default
 B. ☐ IODINES: _____ Curies per second ☐ Measured ☐ Default
 C. ☐ Release within normal operating limits.

9. *TYPE OF RELEASE IS (Blanks are for specific nuclides if available, i.e., I-131, Cs-137, etc.)

- A. ☐ Radioactive gases _____ C. ☐ Radioactive liquids _____
 B. ☐ Radioactive airborne particulates _____ D. ☐ Other _____

10. *PROJECTED OFFSITE DOSE RATEDISTANCE

1 MILE (Site Boundary)
 2 MILES
 5 MILES
 10 MILES

THYROID DOSE RATE (CDE)

_____ mrem/hr
 _____ mrem/hr
 _____ mrem/hr
 _____ mrem/hr

TOTAL DOSE RATE (TEDE)

_____ mrem/hr
 _____ mrem/hr
 _____ mrem/hr
 _____ mrem/hr

11. METEOROLOGICAL DATA

- A. Wind direction (from) _____ degrees. C. Wind speed _____ MPH
 B. Sectors affected _____ D. Stability class _____

12. UTILITY RECOMMENDED PROTECTIVE ACTIONS:

- A. ☐ No recommendations at this time.
 B. ☐ Notify the public to take the following protective actions:
 (Note: If message refers to 360° radius, use the word "ALL" under sectors.)

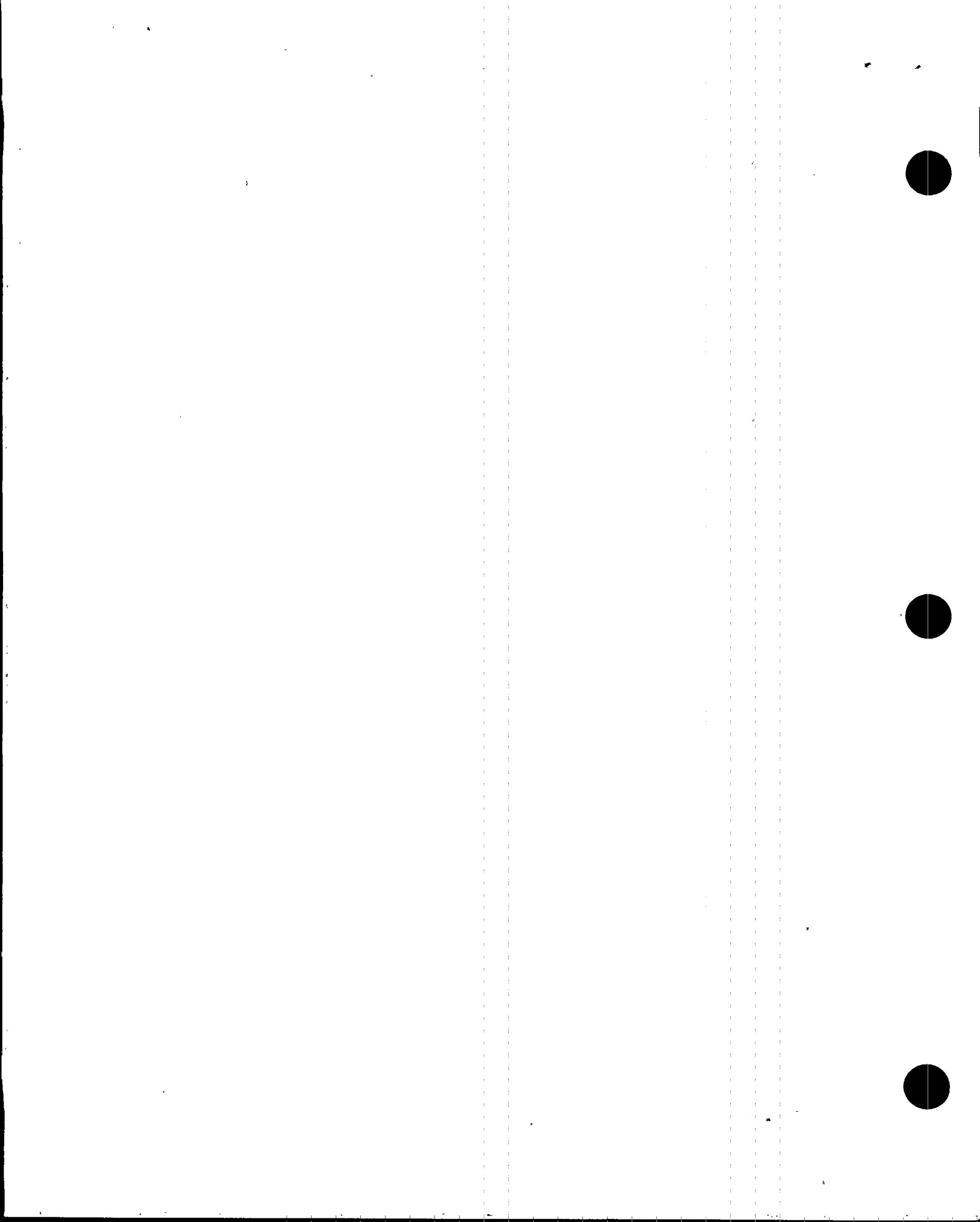
MILES	NO ACTION	SHELTER/SECTORS	EVACUATE/SECTORS
0--2	_____	_____	_____
2--5	_____	_____	_____
5--10	_____	_____	_____

13. HAS EVENT BEEN TERMINATED?: A. ☐ NO B. ☐ YES: TIME _____ DATE _____

RM/EC Approval: _____ Time: _____ Date: _____

14. MESSAGE RECEIVED BY: Name _____ Time: _____ Date: _____

* This information may not be available on initial notifications.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 88
DUTIES OF EMERGENCY COORDINATOR

SECTOR REFERENCE:

The chart below can be used to determine sectors affected by a radiological release, through comparison with wind direction from the meteorological recorders in the Control Room.

If the wind direction is directly on the edge of two sectors (e.g., 11°, 33°, 56°, etc.), an additional sector should be added to the protective action recommendations. For example, if the wind direction is from 78°, then the affected sectors for PARS should be L, M, N, and P.

Sector Information:

WIND SECTOR	WIND FROM	DEGREES	WIND TOWARD	SECTORS AFFECTED
[A]	N	348 - 11	S	H J K
[B]	NNE	11 - 33	SSW	J K L
[C]	NE	33 - 56	SW	K L M
[D]	ENE	56 - 78	WSW	L M N
[E]	E	78 - 101	W	M N P
[F]	ESE	101 - 123	WNW	N P Q
[G]	SE	123 - 146	NW	P Q R
[H]	SSE	146 - 168	NNW	Q R A
[J]	S	168 - 191	N	R A B
[K]	SSW	191 - 213	NNE	A B C
[L]	SW	213 - 236	NE	B C D
[M]	WSW	236 - 258	ENE	C D E
[N]	W	258 - 281	E	D E F
[P]	WNW	281 - 303	ESE	E F G
[Q]	NW	303 - 326	SE	F G H
[R]	NNW	326 - 348	SSE	G H J

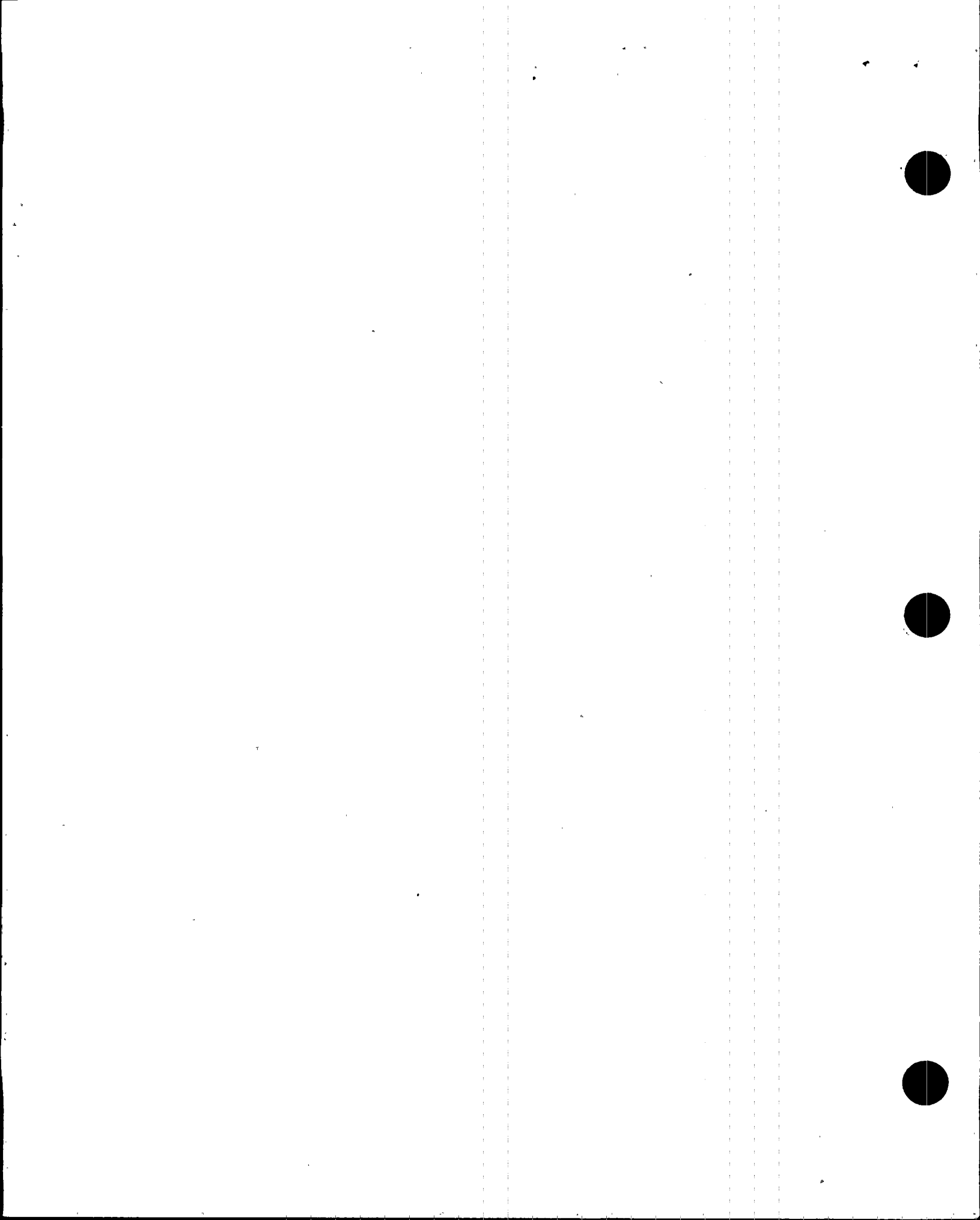
STABILITY CLASSIFICATION REFERENCE:

The below chart can be used to determine atmospheric stability classification for notification to the State of Florida. Primary method is from ΔT via the South Dade (60 meter) tower. Backup method is from Sigma Theta via the Ten Meter Tower. If neither meteorological tower is available, Stability Classification shall be determined using data from National Weather Service (See EPIP-20126, Off-Site Dose Calculations).

CLASSIFICATION OF ATMOSPHERIC STABILITY

Stability Classification	Pasquill Categories	Primary Delta T (°F)	Backup Sigma Theta Range (Degrees)
Extremely unstable	A	$\Delta T \leq -1.7$	22.5 or more
Moderately unstable	B	$-1.7 < \Delta T \leq -1.5$	17.5 to 22.4
Slightly unstable	C	$-1.5 < \Delta T \leq -1.4$	12.5 to 17.4
Neutral	D	$-1.4 < \Delta T \leq -0.5$	7.5 to 12.4
Slightly stable	E	$-0.5 < \Delta T \leq 1.4$	3.8 to 7.4
Moderately stable	F	$1.4 < \Delta T \leq 3.6$	2.1 to 3.7
Extremely stable	G	$3.6 < \Delta T$	2.0 or less

Meteorological information needed to fill out Section II on the Notification Message Form is available from the Dose calculation Worksheet (EPIP-20126). The worksheet shall be filled out by Chemistry and given to the Emergency Coordinator.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 89
DUTIES OF EMERGENCY COORDINATOR

NRC FORM 361				US NUCLEAR REGULATORY COMMISSION OPERATIONS CENTER			
EVENT NOTIFICATION WORKSHEET							
NOTIFICATION TIME	FACILITY OR ORGANIZATION	UNIT	CALLERS NAME	CALL BACK: ENS _____ OR () _____			
EVENT TIME & ZONE	EVENT DATE / /	1-Hr Non-Emergency 10 CFR 50.72 (b) (1)		(v) Lost Offsite Comms			
		(i) (A) TS Required S/D		(vi) Fire			
POWER MODE BEFORE	POWER MODE AFTER	(i) (B) TS Deviation		(vi) Toxic Gas			
		(iii) Degraded Condition		(vi) Rad Release			
Event Classifications		(ii) (A) Unanalyzed Condition		(vi) Oth Hampering Safe Op			
		(ii) (B) Outside Design Basis		4-Hr Non-Emergency 10 CFR 50.72 (b) (2)			
		(ii) (C) Not Covered by OPs/EOPs		(i) Degrade While S/D			
GENERAL EMERGENCY		(iii) Earthquake		(ii) RPS Actuation (Scram)			
SITE AREA EMERGENCY		(iii) Flood		(ii) ESF Actuation			
ALERT		(iii) Hurricane		(iii) (A) Safe S/D Capability			
UNUSUAL EVENT		(iii) Ice/Hail		(iii) (B) Rhr Capability			
50.72 NON-EMERGENCY		(iii) Lighting		(iii) (C) Control of Rad Release			
PHYSICAL SECURITY (73.71)		(iii) Tornado		(iii) (D) Accident Mitigation			
TRANSPORTATION		(iii) Other Natural Phenomenon		(iv) (A) Air Release > 2X App B			
20.403 MATERIAL/EXPOSURE		(iv) ECCS Discharge to RCS		(iv) (B) Liq Release > 2X App B			
OTHER		(v) Lost ENS		(v) Offsite Medical			
		(v) Lost Emerg. Assessment		(vi) Offsite Notification			
<p align="center" style="margin-top: 0;">DESCRIPTION</p>							
Include: Systems affected, actuations & their initiating signals, causes, effect of event on plant, actions taken or planned, etc.							
NOTIFICATIONS NRC RESIDENT	YES	NO	WILL BE	ANYTHING UNUSUAL OR NOT UNDERSTOOD?	YES (Explain above)	NO	
STATE(s)				DID ALL SYSTEMS FUNCTION AS REQUIRED?	YES	NO (Explain above)	
LOCAL							
OTHER GOV AGENCIES				MODE OF OPERATION UNTIL CORRECTED	ESTIMATE FOR RESTART DATE:	ADDITION INFO ON BACK?	

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DUTIES OF EMERGENCY COORDINATOR

NRC FORM 361

ADDITIONAL INFORMATION

USNRC OPERATIONS CENTER

RADIOLOGICAL RELEASES CHECK OR FILL IN APPLICABLE ITEMS (specific details/explanations should be covered in event description)

LIQUID RELEASE	GASEOUS RELEASE	UNPLANNED RELEASE	PLANNED RELEASE	ONGOING	TERMINATED
MONITORED	UNMONITORED	OFFSITE RELEASE	T.S. EXCEEDED	RM ALARMS	AREAS EVACUATED
PERSONNEL EXPOSED OR CONTAMINATED		OFFSITE PROTECTIVE ACTIONS RECOMMENDED		*State release path in description	

	Release Rate (Ci/sec)	% T.S. LIMIT	HOO GUIDE	Total Activity (Ci)	% T.S. LIMIT	HOO GUIDE
Noble Gas			0.1 Ci/sec			1000 Ci
Iodine			10 uCi/sec			0.01 Ci
Particulate			1 uCi/sec			1 mCi
Liquid (excluding tritium & dissolved noble gases)			10 uCi/min			0.1 Ci
Liquid (tritium)			0.2 Ci/min			5 Ci
Total Activity						

	PLANT STACK	CONDENSER/AIR EJECTOR	MAIN STEAM LINE	SG BLOWDOWN	OTHER
RAD MONITOR READINGS:					
ALARM SETPOINTS:					
% T.S. LIMIT (if applicable)					

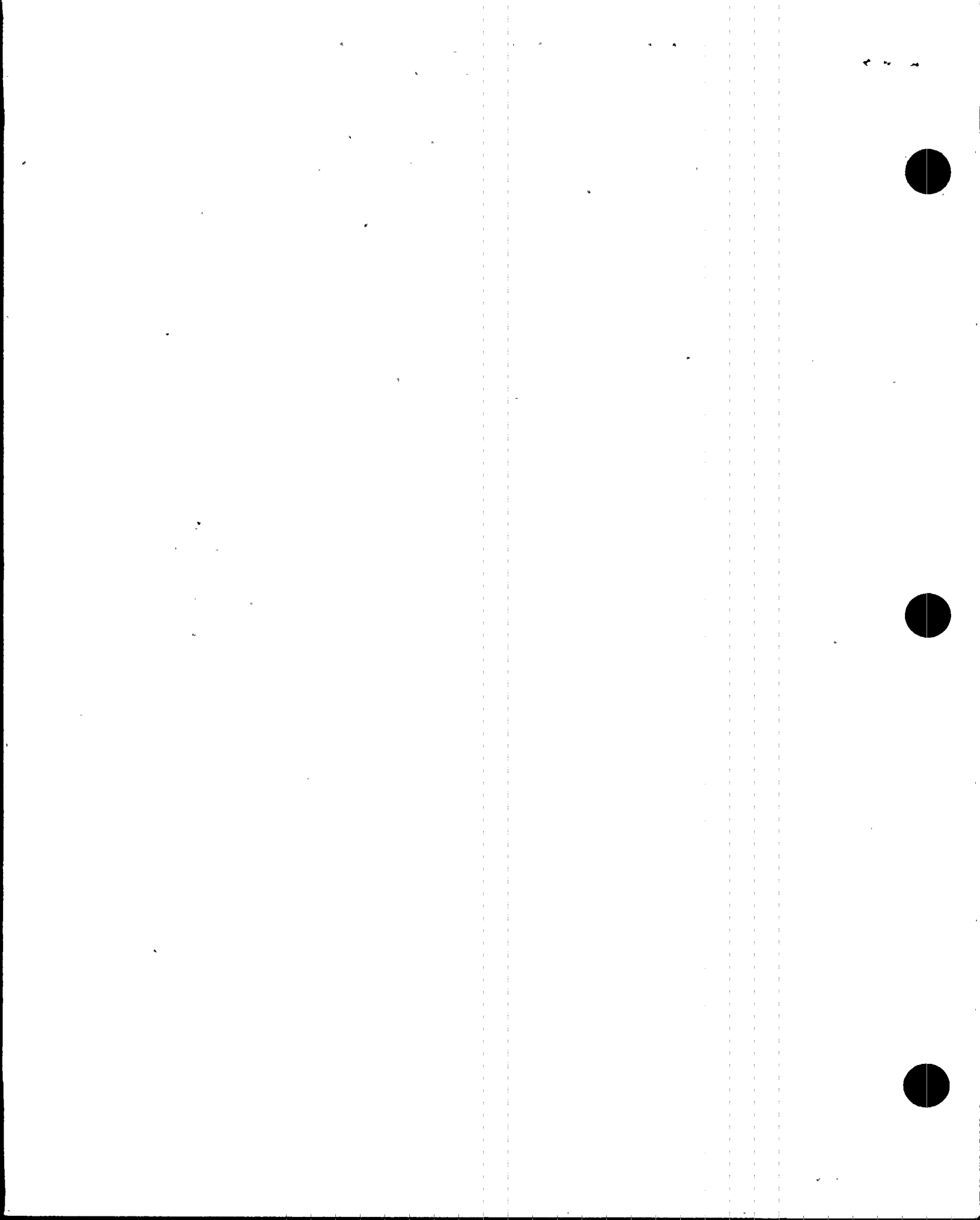
RCS OR SG TUBE LEAKS CHECK OR FILL IN APPLICABLE ITEMS: (specific details/explanations should be covered in event description)

LOCATION OF THE LEAK (e.g., SG #, valve, pipe, etc):

LEAK RATE:	UNITS: gpm/gpd	T.S. Limits:	SUDDEN OR LONG TERM DEVELOPMENT:
LEAK START DATE:	TIME:	COOLANT ACTIVITY & UNITS: PRIMARY -	SECONDARY -

LIST OF SAFETY RELATED EQUIPMENT NOT OPERATIONAL:

EVENT DESCRIPTION (Continued from front)



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 91
DUTIES OF EMERGENCY COORDINATOR

Time

8.7.11 Notify the Nuclear Division Duty Officer (NDDO). If NDDO cannot be reached, notify any NDDO, or RM. See the Emergency Response Directory or NDDO schedule for telephone numbers, and relay applicable information from the State of Florida Notification Form.

8.7.12 If the Onsite Emergency Response Facilities (TSC/OSC) are operational consider Emergency Coordinator transfer to TSC.

NOTE: Any de-escalation from General Emergency shall be determined by the ECO.

8.7.13 If not previously done, determine the status of the Owner Controlled Area Evacuation. Security has 30 minutes to provide a list of names of personnel not yet accounted for inside Protected Area.

8.7.14 Reassess plant conditions against Table 1 and Table 2 periodically.

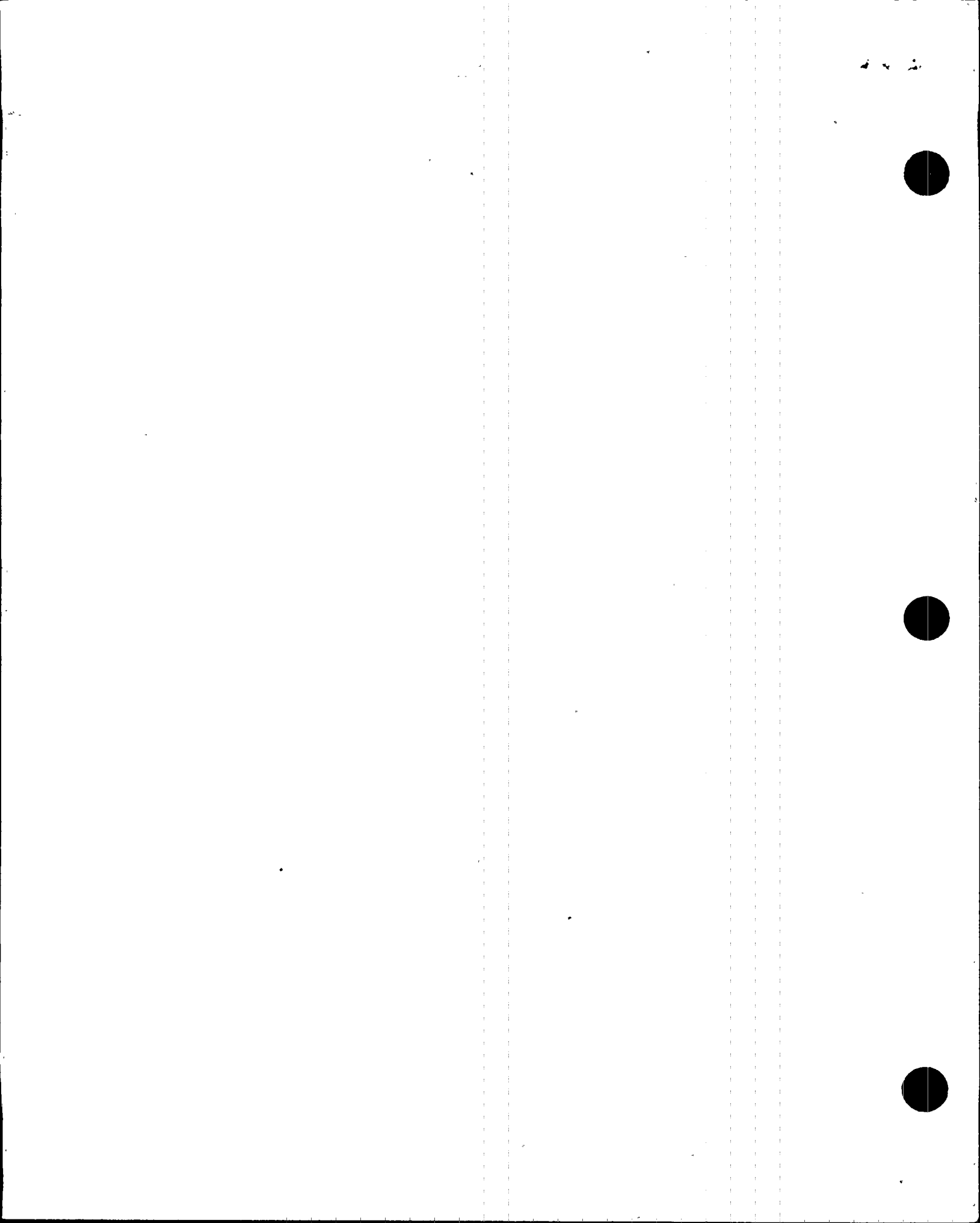
8.7.15 Every hour, upon termination, or as conditions change, provide notifications to the following if notification responsibilities are with the Emergency Coordinator onsite:

1. Complete a State of Florida Notification Message Form
2. The Emergency Coordinator shall initial the form prior to transmitting the information to verify Emergency Coordinator approval.
3. Notify the following of the new information.
 - a. State Warning Point
 - b. NDDO
 - c. Duty Call Supervisor
 - d. Recovery Manager
4. Complete an Event Notification Worksheet Form
5. Notify the NRCOC with the new information.

8.7.16 Using Attachment 1, De-escalation Guidelines determine if the emergency can be de-escalated or terminated.

NOTE: Any de-escalation from General Emergency shall be determined by the RM.

8.7.17 If conditions warrant, recommend de-escalation from General Emergency to the RM.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 92
DUTIES OF EMERGENCY COORDINATOR

STATE OF FLORIDA NOTIFICATION MESSAGE FORM FOR NUCLEAR POWER PLANTS
☐ **THIS IS A DRILL** ☐ **THIS IS AN ACTUAL EMERGENCY**

1. A. Time/Date _____ B. Reported by (Name/Title) _____
 C. Message Number _____ D. From: ☐ Control Room ☐ TSC ☐ EOF
2. SITE ☐ CRYSTAL RIVER UNIT 3 ☐ ST LUCIE UNIT 1 ☐ TURKEY POINT UNIT 3
☐ ST LUCIE UNIT 2 ☐ TURKEY POINT UNIT 4

3. ACCIDENT CLASSIFICATION

- ☐ NOTIFICATION OF UNUSUAL EVENT
☐ ALERT

- ☐ SITE AREA EMERGENCY
☐ GENERAL EMERGENCY

4. CURRENT EMERGENCY DECLARATION: TIME: _____ DATE: _____

5. INCIDENT DESCRIPTION OR UPDATE _____

6. INJURIES A. ☐ CONTAMINATED _____ B. ☐ NON-CONTAMINATED _____

7. RELEASE STATUS:

- A. ☐ No Release (Go to Item 11)
 B. ☐ Potential (Possible) release

- C. ☐ A Release is occurring --expected duration _____
 D. ☐ A Release occurred, but stopped-- duration _____

8. *RELEASE RATE A. ☐ NOBLE GASES: _____ Curies per second ☐ Measured ☐ Default
 B. ☐ IODINES: _____ Curies per second ☐ Measured ☐ Default
 C. ☐ Release within normal operating limits.

9. *TYPE OF RELEASE IS (Blanks are for specific nuclides if available, i.e., I-131, Cs-137, etc.)

- A. ☐ Radioactive gases _____ C. ☐ Radioactive liquids _____
 B. ☐ Radioactive airborne particulates _____ D. ☐ Other _____

10. *PROJECTED OFFSITE DOSE RATE

<u>DISTANCE</u>	<u>THYROID DOSE RATE (CDE)</u>	<u>TOTAL DOSE RATE (TEDE)</u>
1 MILE (Site Boundary)	_____ mrem/hr	_____ mrem/hr
2 MILES	_____ mrem/hr	_____ mrem/hr
5 MILES	_____ mrem/hr	_____ mrem/hr
10 MILES	_____ mrem/hr	_____ mrem/hr

11. METEOROLOGICAL DATA

- A. Wind direction (from) _____ degrees. C. Wind speed _____ MPH
 B. Sectors affected _____ D. Stability class _____

12. UTILITY RECOMMENDED PROTECTIVE ACTIONS:

- A. ☐ No recommendations at this time.
 B. ☐ Notify the public to take the following protective actions:
 (Note: If message refers to 360° radius, use the word "ALL" under sectors.)

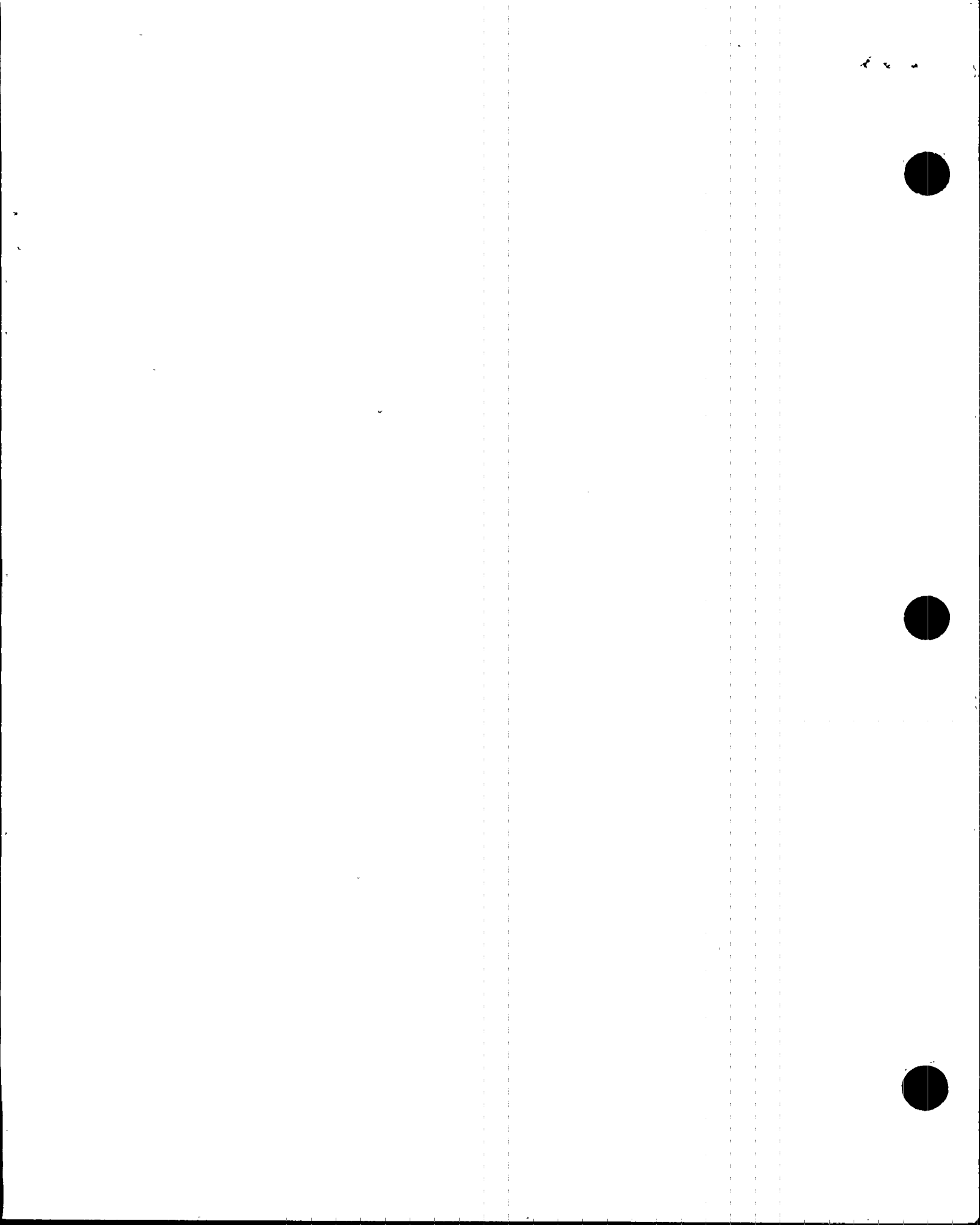
<u>MILES</u>	<u>NO ACTION</u>	<u>SHELTER/SECTORS</u>	<u>EVACUATE/SECTORS</u>
0--2	_____	_____	_____
2--5	_____	_____	_____
5--10	_____	_____	_____

13. HAS EVENT BEEN TERMINATED?: A. ☐ NO B. ☐ YES: TIME _____ DATE _____

RM/EC Approval: _____ Time: _____ Date: _____

14. MESSAGE RECEIVED BY: Name _____ Time: _____ Date: _____

* This information may not be available on initial notifications.



EMERGENCY PLAN IMPLEMENTING PROCEDURE 20101, PAGE 93
DUTIES OF EMERGENCY COORDINATOR

SECTOR REFERENCE:

The chart below can be used to determine sectors affected by a radiological release, through comparison with wind direction from the meteorological recorders in the Control Room.

If the wind direction is directly on the edge of two sectors (e.g., 11°, 33°, 56°, etc.), an additional sector should be added to the protective action recommendations. For example, if the wind direction is from 78°, then the affected sectors for PARS should be L, M, N, and P.

Sector Information:

WIND SECTOR	WIND FROM	DEGREES	WIND TOWARD	SECTORS AFFECTED
[A]	N	348 - 11	S	H J K
[B]	NNE	11 - 33	SSW	J K L
[C]	NE	33 - 56	SW	K L M
[D]	ENE	56 - 78	WSW	L M N
[E]	E	78 - 101	W	M N P
[F]	ESE	101 - 123	WNW	N P Q
[G]	SE	123 - 146	NW	P Q R
[H]	SSE	146 - 168	NNW	Q R A
[J]	S	168 - 191	N	R A B
[K]	SSW	191 - 213	NNE	A B C
[L]	SW	213 - 236	NE	B C D
[M]	WSW	236 - 258	ENE	C D E
[N]	W	258 - 281	E	D E F
[P]	WNW	281 - 303	ESE	E F G
[Q]	NW	303 - 326	SE	F G H
[R]	NNW	326 - 348	SSE	G H J

STABILITY CLASSIFICATION REFERENCE:

The below chart can be used to determine atmospheric stability classification for notification to the State of Florida. Primary method is from ΔT via the South Dade (60 meter) tower. Backup method is from Sigma Theta via the Ten Meter Tower. If neither meteorological tower is available, Stability Classification shall be determined using data from National Weather Service (See EPIP-20126, Off-Site Dose Calculations).

CLASSIFICATION OF ATMOSPHERIC STABILITY

Stability Classification	Pasquill Categories	Primary Delta T (°F)	Backup Sigma Theta Range (Degrees)
Extremely unstable	A	$\Delta T \leq -1.7$	22.5 or more
Moderately unstable	B	$-1.7 < \Delta T \leq -1.5$	17.5 to 22.4
Slightly unstable	C	$-1.5 < \Delta T \leq -1.4$	12.5 to 17.4
Neutral	D	$-1.4 < \Delta T \leq -0.5$	7.5 to 12.4
Slightly stable	E	$-0.5 < \Delta T \leq 1.4$	3.8 to 7.4
Moderately stable	F	$1.4 < \Delta T \leq 3.6$	2.1 to 3.7
Extremely stable	G	$3.6 < \Delta T$	2.0 or less

Meteorological information needed to fill out Section II on the Notification Message Form is available from the Dose calculation Worksheet (EPIP-20126). The worksheet shall be filled out by Chemistry and given to the Emergency Coordinator.



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NRC FORM 361				US NUCLEAR REGULATORY COMMISSION OPERATIONS CENTER			
EVENT NOTIFICATION WORKSHEET							
NOTIFICATION TIME	FACILITY OR ORGANIZATION	UNIT	CALLER'S NAME	CALL BACK: ENS _____ OR () _____			
EVENT TIME & ZONE	EVENT DATE / /	1-Hr Non-Emergency 10 CFR 50.72 (b) (1)		(v) Lost Offsite Comms			
		(i) (A) TS Required S/D		(vi) Fire			
POWER MODE BEFORE	POWER MODE AFTER	(i) (B) TS Deviation		(vi) Toxic Gas			
		(iii) Degraded Condition		(vi) Rad Release			
Event Classifications		(ii) (A) Unanalyzed Condition		(vi) Oth Hampering Safe Op			
		(ii) (B) Outside Design Basis		4-Hr Non-Emergency 10 CFR 50.72 (b) (2)			
		(ii) (C) Not Covered by OPs/EOPs		(i) Degrade While S/D			
GENERAL EMERGENCY		(iii) Earthquake		(ii) RPS Actuation (Scram)			
SITE AREA EMERGENCY		(iii) Flood		(ii) ESF Actuation			
ALERT		(iii) Hurricane		(iii) (A) Safe S/D Capability			
UNUSUAL EVENT		(iii) Ice/Hail		(iii) (B) Rhr Capability			
50.72 NON-EMERGENCY		(iii) Lighting		(iii) (C) Control of Rad Release			
PHYSICAL SECURITY (73.71)		(iii) Tornado		(iii) (D) Accident Mitigation			
TRANSPORTATION		(iii) Other Natural Phenomenon		(iv) (A) Air Release > 2X App B			
20.403 MATERIAL/EXPOSURE		(iv) ECCS Discharge to RCS		(iv) (B) Liq Release > 2X App B			
OTHER		(v) Lost ENS		(v) Offsite Medical			
		(v) Lost Emerg. Assessment		(vi) Offsite Notification			
<p align="center">DESCRIPTION</p>							
<p>Include: Systems affected, actuations & their initiating signals, causes, effect of event on plant, actions taken or planned, etc.</p>							
NOTIFICATIONS NRC RESIDENT	YES	NO	WILL BE	ANYTHING UNUSUAL OR NOT UNDERSTOOD?	YES (Explain above)	NO	
STATE(s) LOCAL				DID ALL SYSTEMS FUNCTION AS REQUIRED?	YES	NO (Explain above)	
OTHER GOV AGENCIES				MODE OF OPERATION UNTIL CORRECTED	ESTIMATE FOR RESTART DATE:	ADDITION INFO ON BACK?	



DUTIES OF EMERGENCY COORDINATOR

NRC FORM 361

ADDITIONAL INFORMATION

USNRC OPERATIONS CENTER

RADIOLOGICAL RELEASES CHECK OR FILL IN APPLICABLE ITEMS (specific details/explanations should be covered in event description)

LIQUID RELEASE	GASEOUS RELEASE	UNPLANNED RELEASE	PLANNED RELEASE	ONGOING	TERMINATED
MONITORED	UNMONITORED	OFFSITE RELEASE	T.S. EXCEEDED	RM ALARMS	AREAS EVACUATED
PERSONNEL EXPOSED OR CONTAMINATED		OFFSITE PROTECTIVE ACTIONS RECOMMENDED		*State release path in description	

	Release Rate (Ci/sec)	% T.S. LIMIT	HOO GUIDE	Total Activity (Ci)	% T.S. LIMIT	HOO GUIDE
Noble Gas			0.1 Ci/sec			1000 Ci
Iodine			10 uCi/sec			0.01 Ci
Particulate			1 uCi/sec			1 mCi
Liquid (excluding tritium & dissolved noble gases)			10 uCi/min			0.1 Ci
Liquid (tritium)			0.2 Ci/min			5 Ci
Total Activity						

	PLANT STACK	CONDENSER/AIR EJECTOR	MAIN STEAM LINE	SG BLOWDOWN	OTHER
RAD MONITOR READINGS:					
ALARM SETPOINTS:					
% T.S. LIMIT (If applicable)					

RCS OR SG TUBE LEAKS CHECK OR FILL IN APPLICABLE ITEMS: (specific details/explanations should be covered in event description)

LOCATION OF THE LEAK (e.g., SG #, valve, pipe, etc):

LEAK RATE:	UNITS: gpm/gpd	T.S. Limits:	SUDDEN OR LONG TERM DEVELOPMENT:
LEAK START DATE:	TIME:	COOLANT ACTIVITY & UNITS: PRIMARY -	SECONDARY -

LIST OF SAFETY RELATED EQUIPMENT NOT OPERATIONAL:

EVENT DESCRIPTION (Continued from front)

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ATTACHMENT 1

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DE-ESCALATION GUIDELINES

Discussion

Once the Plant classifies a Site Area Emergency, or General Emergency, only the RM has the authority to de-escalate to a lower classification level. The following guidelines provide points to consider when de-escalation may be appropriate.

1. Review Plant Emergency Classification Table (PTN EPIP-20101), to assure that classification criteria to enter event is no longer applicable, or referenced situations are under control.
2. Verify additionally that the plant is stable, under control, and trend or prognosis indicates that improvement is the most likely prospect. Consider the following:
 - a. Subcriticality
 - b. Core cooling mode
 - c. Heat sink mode
 - d. RCS Pressure Boundary Integrity
 - e. Inventory Control (Primary and Secondary Coolant)
3. Verify there is no foreseeable likelihood of a significant uncontrolled release. Consider the following:
 - a. Containment Pressure
 - b. Containment/Auxiliary Building Radiation Levels
 - c. Waste Gas Storage Tank Pressures and Activities
 - d. Contaminated Water Volumes and Activities
4. Verify long-term staffing for both the site and EOF is organized in place as appropriate for the event.