GEORGIA POWER COMPANY

HATCH NUCLEAR PLANT

PROCEDURE

ALERT - RESCUE TEAM
PROCEDURE TITLE

HNP-APPR
PROCEDURE NUMBER

LAB
RESPONSIBLE SECTION

SAFETY RELATED (X) NON-SAFETY RELATED ( )

REV.	DESCRIPTION	APPROVED DEPT. HEAD	APPROVED PLANT MANAGER	DATE
2	Pages 1 and 2	[signature]	[signature]	3/1/82

HNP-0

ALERT - RESCUE TEAM

A. CONDITION

Events are in process or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant. Any releases are expected to be limited to small fractions of the EPA Protective Action Guideline (PAG) exposure levels.

B. REFERENCE

HNP-4520

C. ACTION

1. Form Rescue Team:

   a. OSC Manager designates a member of the Radiological Emergency Team to be Rescue Team Captain.

   b. Radiological Emergency Team members are assigned to complete Rescue Team as follows:

      Survey Man

      Stretcher Bearer # 1

      Stretcher Bearer # 2

      Stretcher Bearer # 3

   c. Rescue Team Captain leads team in the rescue effort.

2. Dress out in protective clothing located in the assembly room (Service Building), if time and the situation permits.

   Anti-C Coveralls
   Shoe Covers
   Rubbers
   Hood
   Respirator (self-contained)
   High Range Pencil Dosimeter
   TLD Badge

3. Survey Man carries GM survey meter and high range survey meter. Team Captain carries walkie-talkie and remains in contact with Rally Point Leader and/or Shift Foreman.

4. Determine probable location of victim from OSC Manager.

5. Proceed with rescue.

   a. Stretcher bearers carry:

      Stretcher
      Rope and tackle, if required for rescue
      Pinch bar, if required for rescue
      First aid kit

   b. Start using respirator while approaching building.

   c. Retreat if dosimeter reaches 2 R and victim has not been located.

   d. Limit dose to members of Rescue Team to 25 rem whole body in effecting rescue.

   e. Perform necessary first aid measures for victim but move rapidly when dose rates are high. Move victim into Medical Room and decontaminate if possible.

   f. Inform Control Room of condition of victim. Assure that Shift Foreman has notified hospital that the victim is or is not contaminated.

   g. Contact Emergency Operations Facility or Control Room by radio or phone for ambulance pickup of victim in the upwind direction of victim's location.

   h. Move victim to ambulance.

   i. Arrange for radiation technician to accompany victim to hospital in ambulance.

   j. Notify a laboratory supervisor as soon as possible.

6. Take necessary measures to limit spread of contamination and report to the OSC Manager when rescue effort is completed.

[illegible] POWER COMPANY

BRUNSWICK NUCLEAR PLANT

PROCEDURE

Radiological Emergency Team
PROCEDURAL TITLE

[illegible]-0520
PROCEDURE NUMBER

Lab
RESPONSIBLE SECTION

SAFETY RELATED (X) NON-SAFETY RELATED ( )

REV.	DESCRIPTION	APPROVED DEPT. HEAD	APPROVED PLANT MANAGER	DATE
2	Page 1	W R Rogers	C T Jones	3/1/82

[illegible]

[illegible]

ALERT - RADIOLOGICAL EMERGENCY TEAM

A. CONDITION

Events are in process or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant. Any releases are expected to be limited to small fractions of the EPA Protective Action Guideline (PAG) exposure levels.

B. REFERENCES

HNP-4520

C. ACTION

1. Report to the Operations Support Center carrying as many survey instruments, friskers, air samplers as you can.

NOTE

It is extremely important that you move as expeditiously as possible.

2. The Operations Support Center Manager will choose a Rally Point Leader.

3. The remaining members of the Radiological Emergency Team will, by assignment of the Operations Support Center Manager:

   a. Assist the Rally Point Leader in performing Rally Point or Personnel Surveys.

   b. Serve as Rescue Team Leaders.

   c. Serve as Internal or External Survey Team Leaders.

   d. Be assigned to the Operations Support Center.

   e. Be dispatched to the EOF to bring the EOF to standby status.

   f. Stand by to give other assistance as directed.

4. Members of Radiological Emergency Team come from Plant Hatch, Plant Vogtle, and Corporate Health Physics and Technical Personnel.

GEORGIA POWER COMPANY

HATCH NUCLEAR PLANT

PROCEDURE

Alert - Shift Supervisor
PROCEDURE TITLE

1552-4530
PROCEDURE NUMBER

Lab
RESPONSIBLE SECTION

SAFETY RELATED (X) NON-SAFETY RELATED ( )

REV.	DESCRIPTION	APPROVED DEPT. HEAD	APPROVED PLANT MANAGER	DATE
3	Page 1	W R Rogers	C E Jones	3/1/82

ALERT - SHIFT SUPERVISOR

A. CONDITION

Events are in process or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant. Any releases are expected to be limited to small fractions of the EPA Protective Action Guideline (P.A.G.) exposure levels.

B. REFERENCE

HNP-4520.

C. ACTION

1. Proceed to control room.
2. Assume the duties of the Emergency Director until relieved, see HNP-4540 for actions.
3. Evaluate actions of Shift Foreman and operator to bring emergency under control.
4. Consult with Shift Foreman and STA to determine if a more severe emergency class should be declared. Refer to criteria in HNP-4620 and 4720.
5. The Shift Supervisor is responsible for notification of Plant Management and NRC as per emergency call list and other offsite agencies in accordance with notification procedures HNP-4861. The actual notification process may be delegated to other, specifically trained, shift personnel.
6. Augment shift resources as needed to assess and respond to the event.
7. Make a safety assessment to determine if personnel not involved in the emergency recovery effort should be evacuated. If possible, consult with Plant Management concerning this evacuation.

GEORGIA POWER COMPANY

HATCH NUCLEAR PLANT

PROCEDURE

Alert - Visitor's Center Director
PROCEDURE TITLE

HNP-4533
PROCEDURE NUMBER

Lab
RESPONSIBLE SECTION

SAFETY RELATED (X) NON-SAFETY RELATED ( )

REV.	DESCRIPTION	APPROVED DEPT. HEAD	APPROVED PLANT MANAGER	DATE
2	Page 2	W.H. Rogers	C.E. Jones	3/1/82

ALERT - VISITOR'S CENTER DIRECTOR

A. CONDITION

Events are in process or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant. Any releases are expected to be limited to small fractions of the EPA Protective Action Guideline (PAG) exposure levels.

B. REFERENCE

HNP-4520

C. ACTION

1. When notified, stop exhibits and have all personnel and visitors report to the reception area.

2. Obtain the high range survey meter and determine the dose rate.

3. Obtain the G.M. survey instrument and determine background. If less than 200 CPM, survey persons for contamination as in step 5.a. If greater than 200 CPM evacuate immediately per step 4 and survey persons for contamination following evacuation per C.5.

4. Form a caravan of vehicles and exit the plant site in the upwind direction. Take Visitor's Log, high range survey meter, and GM survey meter with you.

5. Halt caravan in a suitable location where dose rate is approximately background (less than 200 cpm).

   a. Survey persons' hands and feet for contamination if not already done. If contaminated, (greater than 100 cpm above background) segregate for transportation to Emergency Operations Facility.

   b. Check vehicles for contamination.

6. Obtain vehicle license numbers and names of persons before releasing. Release persons and vehicles that are not contaminated greater than 100 cpm above background.

NOTE

In order to assure that license numbers and names of visitors released from the center will be obtained, both a security officer and an REF member will be sent to the Visitor's Center as soon as possible to assist in this job.

7. Contact Emergency Operations Facility for instructions on decontamination of persons and vehicles. This will normally be done at the Emergency Operations Facility.

8. Report status of evacuation to Emergency Director by use of nearest available telephone.

9. Report to Emergency Operations Facility if requested to do so by the Emergency Director.

GEORGIA POWER COMPANY

HATCH NUCLEAR PLANT

PROCEDURE

Alert - Emergency Director
PROCEDURE TITLE

HNP-4540
PROCEDURE NUMBER

Lab
RESPONSIBLE SECTION

SAFETY RELATED (X) NON-SAFETY RELATED ( )

REV.	DESCRIPTION	APPROVED DEPT. HEAD	APPROVED PLANT MANAGER	DATE
3	Page 1	[signature]	C.F. Jones	3/1/82

ALERT - EMERGENCY DIRECTOR

A. CONDITION

Events are in process or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant. Any releases are expected to be limited to small fractions of the EPA Protective Action Guideline (PAG) exposure levels.

B. REFERENCE

HNP-4520.

C. ACTION

1. The Plant Manager or his designee will assume the position of Emergency Director as soon as he can establish himself in an activity center (EOF or TSC). The Emergency Director directs the overall management of the emergency response. Since the EOF is not fully activated in an Alert, the Emergency Director may choose to station himself in the TSC. He assigns personnel as necessary to perform the duties below.

2. Assure that the TSC, OSC and EOF are safe areas through the use of portable survey instruments.

3. Establish communications with the Control Room and the TSC or EOF, as appropriate, and obtain information on the diagnosis and prognosis of the accident condition, the estimates or radioactive material releases, and the prevailing meteorological conditions. This communication channel is to remain in use for this information as long as necessary.

4. Confirm that all notifications as per Emergency Call List have been completed.

5. Maintain communication with State Radiation Emergency Coordinator and/or GEMA and relate the accident diagnosis and prognosis information necessary for these authorities to implement their emergency plans. Recommend protective actions per HNP-4854.

6. Assure that State and local authorities and the NRC are periodically provided with appropriate meteorological and release data, and dose estimates as per HNP-4861. This task should be performed in the EOF normally; the TSC may be used to inform State and local authorities and the NRC may be used to inform the NRC.

7. Assure that plant status updates are provided to NRC and State authorities at least every 15 minutes. The NRC may be informed by the use of the ENS and the State may be informed by the use of a dedicated telephone circuit to the Georgia Emergency Management Agency (GEMA).

8. Coordinate rescue effort when required.

9. Assure that all personnel reporting to the EOF, TSC and OSC are surveyed for contamination and possible high radiation exposure.

10. Contact company management for outside assistance.

11. Supervise collection of emergency data in the Emergency Operations Facility or TSC log as appropriate.

12. Organize personnel and standby to provide further assistance.

13. When appropriate, in consultation with Control Room, TSC, and Plant Management, escalate to a more severe class or close out or reduce emergency class by verbal summary to offsite authorities followed by written summary within 8 hours of closeout or class reduction.

GEORGIA POWER COMPANY

HATCH NUCLEAR PLANT

PROCEDURE

Site Area Emergency
PROCEDURE TITLE

HNP-4620
PROCEDURE NUMBER

Lab
RESPONSIBLE SECTION

SAFETY RELATED (X) NON-SAFETY RELATED ( )

REV.	DESCRIPTION	APPROVED DEPT. HEAD	APPROVED PLANT MANAGER	DATE
1	Page 2	W. R. Rogers	C. E. Jones	9/1/82

SITE AREA EMERGENCY

A. CLASS DESCRIPTION

Events are in progress or have occurred which involve actual or likely major failures of plant functions needed for protection of the public. Refer to Table 1. Any releases are not expected to exceed PAG exposure levels, except near the site boundary.

B. PURPOSE

Purpose of the site area emergency declaration is to (1) assure that response centers are manned, (2) assure that monitoring teams are dispatched, (3) assure that personnel required for evacuation of near site areas are at duty stations if situation becomes more serious, (4) provide consultation with offsite authorities, and (5) provide updates for the public through offsite authorities.

C. PLANT ACTIONS

1. Promptly inform State and/or local offsite authories of site area emergency status and reasons for emergency.

2. Augment resources by activating TSC, operations support center and EOF.

3. Assess and respond.

4. Dispatch onsite and offsite monitoring teams with associated communications.

5. Dedicate an individual for plant status updates to offsite authorities and periodic press briefings (perhaps in conjunction with offsite authorities).

6. Make senior technicial and management staff onsite available for consultation with NRC and State on a periodic basis.

7. Provide meteorological data and dose estimates to offsite authorities for actual releases via a dedicated individual or automated data transmission.

8. Provide release and dose projections based on available plant condition information and foreseeable contingencies.

9. Escalate to general emergency class, if appropriate.

OR

10. Close out or reduce emergency class by briefing of offsite authorities followed by written summary within 8 hours of closeout or class reduction.

D. STATE AND/OR LOCAL OFFSITE AUTHORITY ACTIONS

1. Provide any assistance requested.

2. If sheltering near the site is desirable, activate public notification system within at least two miles of the plant.

3. Provide public within at least about 10 miles periodic updates on emergency status.

4. Augment resources by activating primary response centers.

5. Dispatch key emergency personnel including monitoring teams with associated communications.

6. Alert to standby status other emergency personnel (e.g., those needed for evacuation) and dispatch personnel to near site duty stations.

7. Provide offsite monitoring results to GPC, DOE and others and jointly assess them.

8. Continuously assess information from GPC and offsite monitoring teams with regard to changes to protective actions already initiated for public and mobilizing evacuation resources.

9. Consider placing milk animals within 2 miles on stored feed and assess need to extend distance.

10. Provide press briefings, perhaps with GPC.

11. Escalate to general emergency class, if appropriate.

12. Maintain site area emergency status until closeout or reduction of emergency class.

TABLE 1
SITE AREA EMERGENCY

	INITIATING CONDITION	EQUIPMENT STATUS	PARAMETER VALUE
1.	Known loss of coolant accident greater than makeup pumps capacity.	Drywell High pressure Initiation alarm, Reactor Low level Initiation alarm Hi Flow Drywell Drain Sump alarm Drywell High Temperature alarm	Greater than 1.8 psig and increasing Less than -38 in and decreasing Greater than 140°F and Increasing
2.	Degraded core with possible loss of coolant geometry (e.g. massive cladding failure or loss of core flow)	Some combination of the following: Containment High Radiation alarm, N.G. Fission Product monitor Hi Hi Radiation alarm and N.G. Fission Product monitor indicator off scale on high end, Reactor Low Level Initiation alarm	
3.	Steam line break outside containment without isolation	Some combination of the following: Turbine Bldg ARM Hi alarm MSL Hi Flow alarm MSL Low Pressure alarm	Greater than 15 mr/hr Greater than 120% and increasing Less than 855 psig and decreasing
4.	Loss of offsite power and loss of onsite power for more than 15 minutes	Undervoltage alarms on all 4.16 kV buses for more than 15 minutes and loss of control room normal lighting or more than 15 minutes and inability to energize 4.16 kV buses from Diesel Generators for more than 15 minutes.	Zero voltage indicated on all 4.16 kV buses

TABLE 1
SITE AREA EMERGENCY (CONTINUED)

INITIATING CONDITION	EQUIPMENT STATUS	PARAMETER VALVE
5. Loss of all vital onsite DC power for more than 15 minutes	Loss of DC Busses for more than 15 minutes	
6. Complete loss of all function needed for plant hot shutdown	Inability to Shutdown with Control Rods	
7. Transient requiring operation of shutdown systems with failure to scram (continued power generation but no core damage immediately evident).	Scram signal present and power not decreasing, Standby Liquid Control initiated.	
8. Major damage to spent fuel in Reactor Building (e.g. large object damages fuel or water lost below fuel (level)	Observation Spent Fuel Storage Pool Low Level alarm	Less than 8 ft above fuel and decreasing
9. Fire compromising the functions of safety systems	Fire alarm and observation	Shift Supervisor's judgement
10. Most or all alarms (annunciators) lost and plant transient initiated or in progress	One or more of the following: a) loss of feed water b) turbine trip c) loss of offsite power d) loss of reactor coolant pump e) reactor trip	Shift Supervisor's judgement

TABLE 1
SITE AREA EMERGENCY (CONTINUED)

INITIATING CONDITION	EQUIPMENT STATUS	PARAMETER VALUE
11a. Radiological gaseous effluent monitors detect levels corresponding to greater than 50 mr/hr for 1/2 hour or greater than 500 mr/hr W.B. for two minutes (or five times these levels to the thyroid) at the site boundary for adverse meteorology	Main Stack and Reactor Bldg. Vent monitors Hi Hi alarm plus monitor readings plus dose projection calculations plus field measurements	
11b. Containment post LOCA radiation monitor readings indicating a fission product inventory equivalent to offsite dose rates as described in 11a.	Containment Post LOCA Radiation alarm plus monitor readings plus dose projection calculations	
11c. EAB projected to be exceeded outside site boundary	Effluent monitor readings plus dose projection calculations	
12. Imminent loss of physical control of the plant	Loss of control of vital areas	Shift Supervisor's Judgement based on advice of Security Shift Supervisor
13. Severe natural phenomena being experienced or projected with plant not in cold shutdown:	Observation	Shift Supervisor's Judgement
a. Earthquake greater than DBE level	Unit 1: Seismic Instrumentation Triggered alarm	Greater than 0.15 G
	Unit 2: Seismic Switch Tripped alarm	

TABLE 1
SITE AREA EMERGENCY (CONTINUED)

INITIATING CONDITION	EQUIPMENT STATUS	PARAMETER VALUE
b. Low water affecting plant safety systems	Very low river elevation Plus observation of safety systems	Less than 57 ft. MSL
c. Flow or hurricane surge greater than design levels	Very high river water elevation	Greater than 120 ft MSL
d. Sustained winds or tornadoes in excess of design level (300 mph)	Very high winds Observation of damage	
14. Other hazards being experienced or projected with plant not in cold shutdown		Shift Supervisor's judgement
a. Aircraft crash affecting vital structures by impact or fire	Observation	
b. Severe damage to shift shutdown equipment from missiles or explosion	Observation	
c. Entry of uncontrolled flammable gases into vital areas. Entry of uncontrolled toxic gases into vital areas where lack of access to the area consititutes a safety problem	Observation, Control Room Outside Air Inlet alarm	

TABLE 1
SITE AREA EMERGENCY (CONTINUED)

INITIATING CONDITION	EQUIPMENT STATUS	PARAMETER VALUE
15. Other Plant conditions exist that warrant activation of emergency centers and monitoring teams or a precautionary notification to the public near the site	Observation	Shift Supervisor's Judgement
16. Evacuation of control room and control of shutdown systems not established from local stations in 15 minutes	Observation	

GEORGIA POWER COMPANY

HATCH NUCLEAR PLANT

PROCEDURE

Actions for ALL Personnel in Site Area Emergency
PROCEDURE TITLE

HNP-4621
PROCEDURE NUMBER

Lab
RESPONSIBLE SECTION

SAFETY RELATED (X) NON-SAFETY RELATED ( )

REV.	DESCRIPTION	APPROVED DEPT. HEAD	APPROVED PLANT MANAGER	DATE
2	Pages 1, 2 & 3 Deletion on Page 1 Page 5 deleted	W. Rogers	C.T. Jones	3/1/82

ACTIONS FOR ALL PERSONNEL IN SITE AREA EMERGENCY

NOTE

This procedure supercedes HNP-4600 Revision 8 dated 8-1-80.

A. CONDITIONS

Events are in progress or have occurred which involve actual or likely major failures of plant functions needed for protection of the public. Any releases are not expected to exceed PAG exposure levels, except near the site boundary.

B. REFERENCE

HNP-4620.

C. ACTION

1. Persons discovering an emergency condition shall immediately notify the control room by the most expeditious means available.

2. Control room operators shall announce the nature of the emergency on the public address system and specify that personnel initiate site area emergency procedures.

3. Control room operators shall place the plant in a safe condition as the emergency warrants.

4. If possible, person(s) in immediate area take appropriate rapid action to limit the extent of the incident with available means, and then retreat to the rally point.

5. Persons involved in the incident report to Health Physics at the Emergency Operations Facility as soon as possible after decontamination for further evaluation of dose received.

6. Persons called in from offsite should report to the Emergency Operations Facility unless specifically directed otherwise.

7. Staffing of the Emergency Operations Facility (EOF) shall begin immediately. The normal EOF is the Visitor's Center; the alternate EOF is the Appling County Sheriff's office in the courthouse.

8. If the emergency occurs during a regular day shift, members of the plant operating organization on site will report as follows:

   a. Control Room

      Operations Supervisor - All on shift operators, Shift Foreman, Shift Supervisor and Shift Technical Advisor.

   b. Emergency Operations Facility

      The following persons will report to the E.O.F. after checking through the rally point.

      Assistant Manager, H.P. Superintendent, Administrative Superintendent, RET members, 4 communicators.

      Three RET members will be dispatched immediately by the OSC Manager to report to the EOF.

   c. Technical Support Center (T.S.C.)

      The following persons will report directly to the T.S.C. following notification of a Site Area Emergency.

      Assistant Manager, Superintendent of Engineering Services, Superintendent of Maintenance, Superintendent of Operations, Reactor Engineer, Engineering Supervisors, Laboratory Supervisor (Health Physics), 4 communicators.

   d. Operations Support Center (O.S.C.)

      The following persons will report directly to the O.S.C. following notification of a Site Area Emergency.

      1 Shift Supervisor or Foreman, 1 Maintenance Supervisor, 1/2 crew instrument technicans w/foreman (pre-designated), 1/2 crew electricians w/foreman (pre-designated), 1/2 crew mechanics w/foreman (pre-designated), all R.E.T. members and four laborers with foreman (predesignated).

9. All personnel who have not been assigned to the control room, TSC, O.S.C. or E.O.F. will evacuate the site per sec. 12 or 13.

10. Members of the plant organization will comply with applicable procedures to effect orderly coordinated actions in the emergency.

11. Members of the Radiological Emergency Team report to the [illegible] immediately if on site when the emergency begins. If team members are called in, they report to the ECF for assignments.

12. Evacuation procedure for personnel inside the primary protected area:

a. Proceed to the area just inside the fence at the exit designated by the announcement over the Public Address System.

b. Proceed to drop off all identification badges at the Security post and continue to the Evnironmental Building or the Skills Training Building as directed by the Control Room. All personnel that were involved in the accident or are wearing PC's will not leave the protected area.

c. Frisking and decontamination will take place at either of these locations as directed by the TSC Manager. Once this is completed, the RET will direct personnel to leave the plant site.

d. Personnel should leave the site vicinity in personal vehicles using US 1. Direction of travel (north, south, either direction) will be announced by the Control Room and will be based on wind direction.

e. If required, company vehicles will be used to supplement transportation needs.

13. Evacuation procedure for personnel outside the primary protected area:

a. Proceed to the Rally Point indicated by Control Room personnel over the Public Address Systems.

NOTE

If the rally point must be moved because of high background radiation, follow instructions of the R.E.T. member.

b. Get checked for contamination by GPC Radiological Emergency Team personnel.

c. If contaminated, go to area designated by surveyor and await decontamination.

d. Personnel in section C.8.b report to E.O.F.

e. Personnel will leave the site vicinity using U.S. 1. Direction of travel (north, south or either) will be announced by the control room and will be based on wind direction.