Progress Energy

JAN 03 2007

SERIAL: HNP-06-156
10 CFR 50, Appendix E

United States Nuclear Regulatory Commission
ATTENTION: Document Control Desk
Washington, DC 20555

SHEARON HARRIS NUCLEAR POWER PLANT
DOCKET NO. 50-400/LICENSE NO. NPF-63
CHANGE TO EMERGENCY PLAN AND EMERGENCY PLAN IMPLEMENTING PROCEDURES

Ladies and Gentlemen:

In accordance with 10 CFR 50.54(q) and Appendix E, Carolina Power & Light Company, now doing business as Progress Energy Carolinas, Inc. (PEC), hereby transmits one copy of Revision 52 to the Harris Nuclear Plant (HNP) Emergency Plan (PLP-201). The Emergency Action Level (EAL) Flow Path, Side 1 & 2 was not changed as part of this revision. These changes have been evaluated by the plant staff as not decreasing the effectiveness of the Emergency Plan and have been implemented per 10 CFR 50.54(q). A description of the changes made to the Emergency Plan is provided in Enclosure 1 to this letter. PLP-201 Revision 52 became effective on December 7, 2006.

Additionally, PEC is transmitting one copy each of recently revised HNP Emergency Plan implementing procedures. A listing of the revised emergency plan implementing procedures and their effective dates is provided in Enclosure 2 to this letter.

If you should have any questions regarding this submittal, please do not hesitate to contact me at (919) 362-3137.

Sincerely,

David H. Corlett
Supervisor, Licensing/Regulatory Programs
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DHC/mgw

Enclosures

c: Mr. P. B. O'Bryan (NRC Senior Resident Inspector, HNP)
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REVISION SUMMARY FOR PLP-201, REV. 52

The changes made by Revision 52 to the Emergency Plan (PLP-201) are as follows:

Section	**Description Of Change**
Figure 2.4-1	Revised Figure 1.5-1 with updated 50-Mile Ingestion Pathway Zone Map. The new revision includes new park locations and basic changes to the Ingestion Pathway Zone area. Removed the revision number reference to map. Revision date on map itself is now used to determine latest revision.
Figure 4.1-1	Revised 10-Mile EPZ Plume Exposure Map to realign 0-2 Mile radius and 0-5 Mile radius evacuation zones.
Annex H	Revised 30-Mile Operations Map to include the realignment of the 0-2 Mile radius and 0-5 Mile radius evacuation zones. Map was also revised to include new reception centers, new emergency worker monitor and decontamination facilities locations, new Traffic Control Points and Security Road Block locations and realignment of evacuation routes.

Enclosure 2 to
SERIAL: HNP-06-156

REVISED EMERGENCY PLAN IMPLEMENTING PROCEDURES

Procedure Number	Title	Effective Date
PEP-110 Revision 16	Emergency Classification and Protective Action Recommendations	12/07/06
PEP-230 Revision 14	Control Room Operations	12/07/06
PEP-240 Revision 9	Activation and Operation of the Technical Support Center	12/07/06
PEP-270 Revision 17	Activation and Operation of the Emergency Operations Facility	12/07/06
PEP-310 Revision 21	Notifications and Communications	12/07/06

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I

INFORMATION USE

HARRIS NUCLEAR PLANT

PLANT OPERATING MANUAL

VOLUME 1

PART 2

PROCEDURE TYPE: PLANT PROGRAM

NUMBER: **PLP-201**

TITLE: **EMERGENCY PLAN**

Table of Contents

Title Page

List of Tables 5

List of Figures 6

1.0 INTRODUCTION

1.1 Authority/Requirements 7

1.2 Purpose of HNP Emergency Plan and Implementing Procedures 8

1.3 Responsibility for Plan Development and Review 9

1.4 Emergency Classes 9

1.5 Severe Accident Management Guidelines (SAMGs) 10

1.6 Plant Site Description 10

1.7 Plume Exposure Emergency Planning Zone (EPZ) 10

1.8 Ingestion Exposure Emergency Planning Zone 11

1.9 Demographic Information 11

1.10 Supporting Emergency Plans 11

2.0 ORGANIZATION AND RESPONSIBILITIES

2.1 General 20

2.2 Emergency Organization 20

2.3 Command and Control 21

2.4 Assignment of Responsibilities 22

2.5 Outside Organization Support 32

3.0 EMERGENCY FACILITIES, COMMUNICATIONS, AND EQUIPMENT

3.1 General 37

3.2 Main Control Room (MCR) 38

3.3 Technical Support Center (TSC) 39

3.4 Operations Support Center (OSC) 40

3.5 Emergency Operations Facility (EOF) 41

3.6 Joint Information Center (JIC) 42

3.7 Non-Progress Energy Facilities 42

3.8 Communications Systems 43

3.9 Assessment Equipment 45

4.0 EMERGENCY MEASURES AND OPERATIONS

4.1 Emergency Classification 50

4.2 Notification 51

4.3 Activation 52

4.4 Assessment Actions 52

4.5 Protective Actions for the Public 54

4.6 Protective Actions for On-Site Personnel 56

4.7 Fire-Fighting Assistance 62

4.8 Security Measures 62

5.0 MAINTAINING EMERGENCY PREPAREDNESS

5.1 Emergency Plan and Plant Emergency Procedures 73

5.2 Emergency Response Organization Training Program 75

5.3 Drills and Exercises 78

5.4 Maintenance and Inventory of Emergency Equipment and Supplies 80

5.5 Testing and Maintenance of the Public Notification and Alerting System 81

5.6 Evacuation Time Estimate 82

6.0 RECOVERY

6.1 Recovery Planning 83

6.2 Recovery Plan Activation 83

6.3 Recovery Organization 85

6.4 Assignment of Responsibilities 85

6.5 Reentry Planning 87

6.6 Total Population Exposure Estimates 88

6.7 Recovery Termination and Reporting Requirements 88

7.0 REFERENCES

ANNEX A - Letters of Agreement 90

ANNEX B - (CONTENTS DELETED) 91

ANNEX C - Glossary of Terms 92

ANNEX D - NUREG-0654 Rev. 1 Cross-Reference 99

ANNEX E - List of Emergency Preparedness Documents 109

ANNEX F - (CONTENTS DELETED) 110

ANNEX G - Interfacing Information from Supporting Emergency Plans 111

ANNEX H - Harris Nuclear Plant - Operations Map 122

List of Tables

Number/Title		Page
1.8-1	Population Data by Sub-Zone - Summer Weekend Weather	15
1.8-2	HNP Plume Exposure EPZ Evacuation Time Estimates	18
1.8-3	Schools Located in the HNP 10-Mile EPZ	19
2.2-1	On-Shift Staffing for Emergencies	33
3.1-1	Typical Emergency Supplies Available for Emergency Facilities	49
4.0-1	Off-Site Agency Support Summary	63
4.2-1	Execution of Unusual Event	65
4.2-2	Execution of Alert	66
4.2-3	Execution of Site Area Emergency	67
4.2-4	Execution of General Emergency	68
4.5-2	Protective Action Guides for the Ingestion Pathway	69
4.6-1	HNP Area Radiation and Contamination Limits	70
G.1-1	Organizations Participating in Emergency Response	118

List of Figures

Number/Title		Page
1.5-1	Ingestion Exposure Emergency Planning Zone (50-Mile EPZ)	12
1.5-2	Plume Exposure Emergency Planning Zone (10-Mile EPZ)	13
1.5-3	HNP Site Plan and Emergency Facilities	14
1.8-1	Demographic Information by Sector	16
1.8-2	Hospital and Family Care Facilities Located in the HNP 10-Mile EPZ	17
2.2-1	On-Site Emergency Response Organization	35
2.4-1	Off-Site Emergency Response Organization	36
4.1-1	Emergency Action Level Flow Path, Side 1	71
4.1-2	Emergency Action Level Flow Path, Side 2	72
G-1	ERO Interfaces, TSC and EOF Not Activated	120
G-2	ERO Interfaces, TSC and EOF Activated	121

1.0 INTRODUCTION

1.1 Authority/Requirements

The Harris Nuclear Plant (HNP) Emergency Plan and Plant Emergency Procedures have been prepared in accordance with the following requirements and guidelines:

A. Code of Federal Regulations, 10 CFR 50, Section 50.47, "Emergency Plans."

B. Code of Federal Regulations, 10 CFR 50, Section 50.54(q) and Section 50.54 (t), "Conditions of Licenses."

C. Code of Federal Regulations, 10 CFR 50, Appendix E, "Emergency Planning and Preparedness for Production and Utilization Facilities."

D. NUREG-0654, FEMA-REP-1, Revision 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980.

E. NUREG-0737, Supplement 1, "Requirements for Emergency Response Capability", December 17, 1982.

F. NUREG/CR-4831, "State of the Art in Evacuation Time Estimate Studies for Nuclear Power Plants," March 1992.

G. FEMA Guidance Memorandum MS-1, "Medical Services," Federal Emergency Management Agency, November 13, 1986.

H. RTM-92, "Response Technical Manual" Volume 1, Revision 2, U.S. Nuclear Regulatory Commission, Washington, D.C., October 1992.

I. IE Information Notice 85-55, "Revised Emergency Exercise Frequency Rule," July 15, 1985.

J. EPA-400-R-92-001, "Manual of Protective Action Guidelines and Protective Actions for Nuclear Incidents," U.S. Environmental Protection Agency, May 1992.

K. EPPOS No. 1, "Emergency Preparedness Position (EPPOS) on Acceptable Deviations from Appendix 1 of NUREG-0654 Based Upon the Staff's Regulatory Analysis of NUMARC/NESP-007, 'Methodology for Development of Emergency Action Levels'", June 6, 1995.

L. EPPOS No. 2, "Emergency Preparedness Position (EPPOS) on Timeliness of Classification of Emergency Conditions", August 17, 1995.

M. EPPOS No. 3, "Emergency Preparedness Position (EPPOS) on Requirement for On-shift Dose Assessment Capability", November 8, 1995.

N. NRC Correspondence: SECY 88-147, SECY 89-012, Generic Letter 88-20.

O. Safety Evaluation by the Office of Nuclear Reactor Regulation Related to WCAP-14986, "Westinghouse Owners Group Post Accident Sampling System Requirements" Westinghouse Owners Group Project No. 694.

P. NRC Order, Implementation guidance For Interim Safeguards and Security Compensatory Measures for the order dated February 25, 2002.

Q. RIS 2002-21, "National Guard and Other Emergency Responders Located in the Licensee's Controlled Area"

1.2 Purpose of HNP Emergency Plan and Implementing Procedures

The purpose of the HNP Emergency Plan (E-Plan) and Implementing Procedures (Plant Emergency Procedures) is to assure that the state of on-site and off-site emergency preparedness provides reasonable assurance that adequate corrective and protective measures can and will be taken in the event of a radiological emergency at the plant. The HNP E-Plan and Implementing Procedures outline the Emergency Preparedness Program which has the following objectives:

A. Protection of plant personnel and the general public.

B. Prevention or mitigation of property damage.

C. Effective coordination of emergency activities among all organizations having a response role.

D. Early warning and clear instructions to the population-at-risk in the event of a serious radiological emergency.

E. Continued assessment of actual or potential consequences both on site and off site.

F. Effective and timely implementation of emergency measures.

G. Continued maintenance of an adequate state of emergency preparedness.

The HNP Emergency Preparedness Controlled Documents are contained in the HNP Plant Operating Manual (POM) and consist of the following parts:

- Volume 1, Part 2, Emergency Plan (PLP-201)
- Volume 2, Part 5, Plant Emergency Procedures (PEP)
- Volume 2, Part 10, Emergency Program Maintenance (EPM)

The Emergency Phone List, EPL-001, is an HNP document controlled outside the POM.

A list of documents which implement and maintain this plan can be found in Annex E.

1.3 Responsibility for Plan Development and Review

Responsibility for the HNP Emergency Plan development, review, and periodic update is assigned to the Supervisor - Emergency Preparedness who serves as the HNP Emergency Planning Coordinator.

Procedures are in place to ensure changes to the Emergency Preparedness Program are evaluated to determine whether the changes do or do not decrease the effectiveness of the plan and the plan, as changed, continues to meet the standards of 10CFR50.47(b) and the requirements of Appendix E. Changes which do result in an evaluated decrease in program effectiveness will not be implemented without prior NRC approval.

1.4 Emergency Classes

Off-normal plant conditions are classified according to four emergency classes which in order of increasing severity are Unusual Event; Alert; Site Area Emergency; and General Emergency. The emergency classes are defined in NRC Bulletin 2005-02, Emergency Preparedness and Response Actions for Security-Based Events, as follows:

1.4.1 Unusual Event

Events are in process or have occurred which indicate a potential degradation of the level of safety of the plant or indicate a security threat to facility protection. No releases of radioactive material requiring offsite response or monitoring are expected unless further degradation of safety systems occurs. Unusual Event is equivalent to the NRC designated class "Notification of Unusual Events."

1.4.2 Alert

Events are in process or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant or a security event that involves probable life threatening risk to site personnel or damage to site equipment because of intentional malicious dedicated efforts of a hostile act. Any releases are expected to be limited to small fractions of the EPA Protective Action Guideline exposure levels.

1.4.3 Site Area Emergency

Events are in process or have occurred which involve an actual or likely major failures of plant functions needed for protection of the public or security events that result in intentional damage or malicious acts; (1) toward site personnel or equipment that could lead to the likely failure of or; (2) prevents effective access to equipment needed for the protection of the public. Any releases are not expected to result in exposure levels which exceed EPA Protective Action Guideline exposure levels beyond the site boundary.

1.4.4 General Emergency

Events are in process or have occurred which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity or security events that result in an actual loss of physical control of the facility. Releases can be reasonably expected to exceed EPA Protective Action Guideline exposure levels offsite for more than the immediate site area.

Events that could lead to any of these emergency classifications are described in Section 4.0, "Emergency Measures and Operations."

1.5 Severe Accident Management Guidelines (SAMGs)

Severe Accident Management Guidelines are put into use when plant conditions are beyond design basis. The primary goal is to protect fission product barriers and mitigate any ongoing fission product releases, with secondary goals to mitigate severe accident phenomena and return the plant to a stable condition. The implementation of SAMGs invokes the provisions of 10 CFR 50.54(x) and (y).

1.6 Plant Site Description

The Harris Nuclear Plant (HNP) site is located in the extreme southwest corner of Wake County, North Carolina, approximately 16 miles southwest of Raleigh, which is the largest population center, and approximately 15 miles northeast of Sanford, North Carolina, in Lee County (See Figures 1.5-1 and 1.5-2). Approximate coordinates of the plant centerline are latitude 35° 38' 01" N and longitude 78° 57' 23" W. The Harris Nuclear Plant consists of one pressurized water reactor (PWR) of Westinghouse Corporation manufacture, licensed to operate at 2900 megawatts thermal (MWt). The associated net electrical output is approximately 900 megawatts electric (MWe). The major structures of HNP which contain radioactive materials are the Containment Building, Reactor Auxiliary Building, Fuel Handling Building, and the Waste Processing Building. Figure 1.5-3 shows the principle site buildings.

Figure 1.5-2 shows the Exclusion Area Boundary (EAB) and the location of the Harris Energy & Environmental Center (HE&EC) in which the Emergency Operations Facility (EOF) is located.

1.7 Plume Exposure Emergency Planning Zone (EPZ)

The Plume Exposure Emergency Planning Zone (EPZ) is defined as the area within an approximate 10-mile radius of the HNP and is referred to as the 10-Mile EPZ.

Principal exposure sources from the plume exposure pathway are (a) external exposure to gamma and beta radiation from the plume and from deposited materials and (b) exposure of the internal organs to gamma and beta radiation from inhaled radioactive gases and/or radioactive particulates. The time of potential exposure can range in length from hours to days.

Figure 1.5-2 shows the Plume Exposure EPZ in relation to the location of HNP. The Plume Exposure EPZ includes portions of the North Carolina counties of Chatham, Harnett, Lee, and Wake. Annex H, attached, shows evacuation routes and local emergency planning zone boundaries in the 10-mile EPZ.

The prevailing winds around the plant are from the southwest.

1.8 Ingestion Exposure Emergency Planning Zone

The Ingestion Exposure Emergency Planning Zone (EPZ) is defined as the area within an approximate 50-mile radius of the HNP and is referred to as the 50-Mile EPZ.

The ingestion exposure sources from the ingestion pathway are contaminated water or food, such as milk or fresh vegetables. The time of potential exposure can range in length from hours to months. The region within a 50-mile radius of the HNP site contains both urban and rural areas with industry, farming, business, education, research, and military interests. Figure 1.5-1 shows the 50-mile Ingestion Exposure EPZ in relation to the location of the Shearon Harris Plant. The Ingestion Exposure EPZ includes the North Carolina counties of Alamance, Caswell, Chatham, Cumberland, Durham, Franklin, Granville, Guilford, Harnett, Hoke, Johnston, Lee, Montgomery, Moore, Nash, Orange, Person, Randolph, Robeson, Sampson, Vance, Wake, Wayne and Wilson.

1.9 Demographic Information

The distribution of resident population in the 10-Mile Emergency Planning Zone is presented in Table 1.8-1 and Figure 1.8-1. Special facilities within the Plume Exposure Emergency Planning Zone are depicted in Figure 1.8-2 and Table 1.8-3. The 10-Mile Emergency Planning Zone evacuation time estimates are provided in Table 1.8-2.

1.10 Supporting Emergency Plans

Emergency Plans which support this Plan are:

A. North Carolina Emergency Response Plan in Support of Shearon Harris Nuclear Power Plant, Division of Emergency Management, Department of Crime Control and Public Safety.

B. U.S. Nuclear Regulatory Commission, NUREG-0728, NRC Incident Response Plan.

C. Federal Radiological Emergency Response Plan.

D. Southern Mutual Radiological Assistance Plan.

Figure 1.5-1

Ingestion Exposure Emergency Planning Zone (50-Mile EPZ)

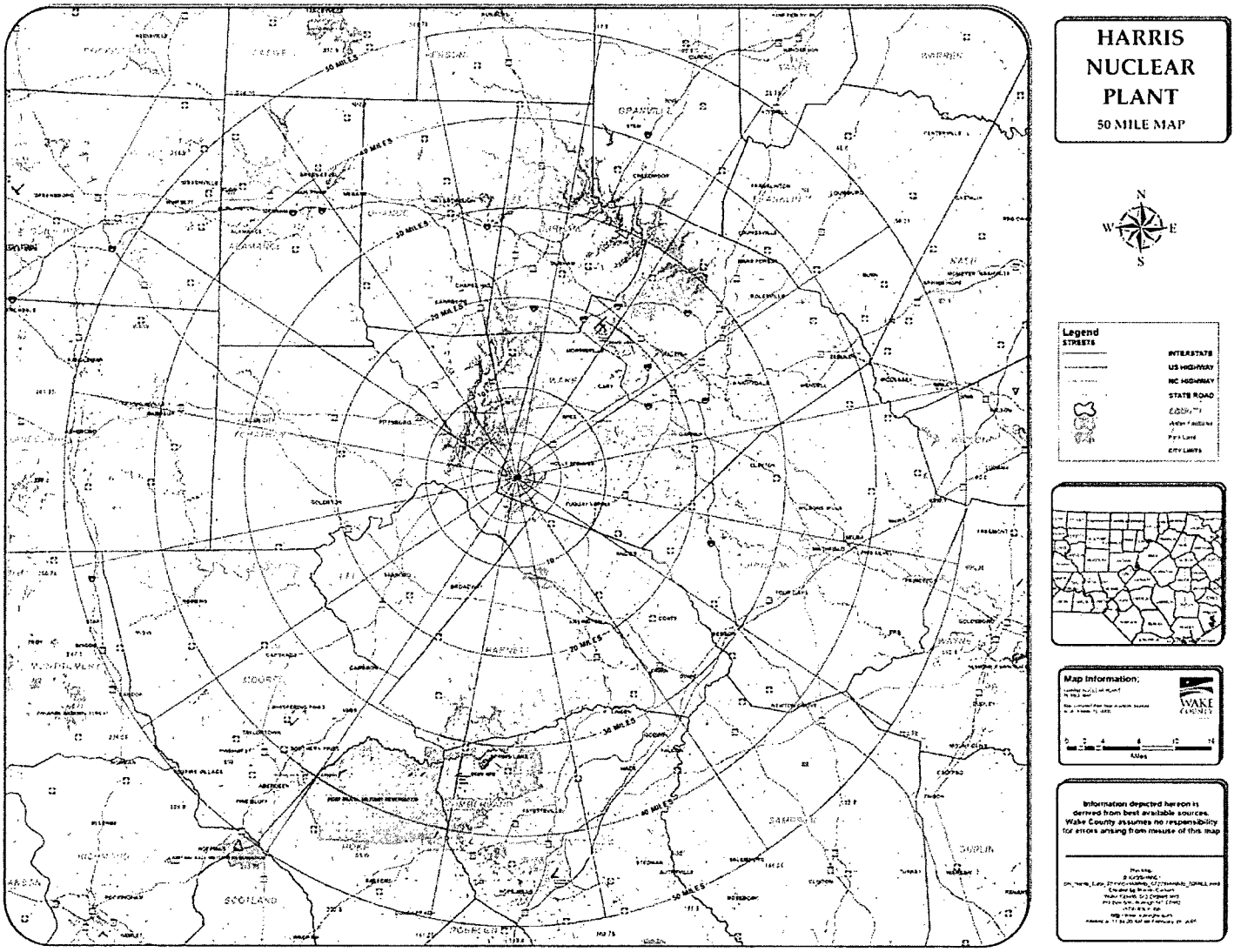

Figure 1.5-2

Plume Exposure Emergency Planning Zone (10-Mile) EPZ)

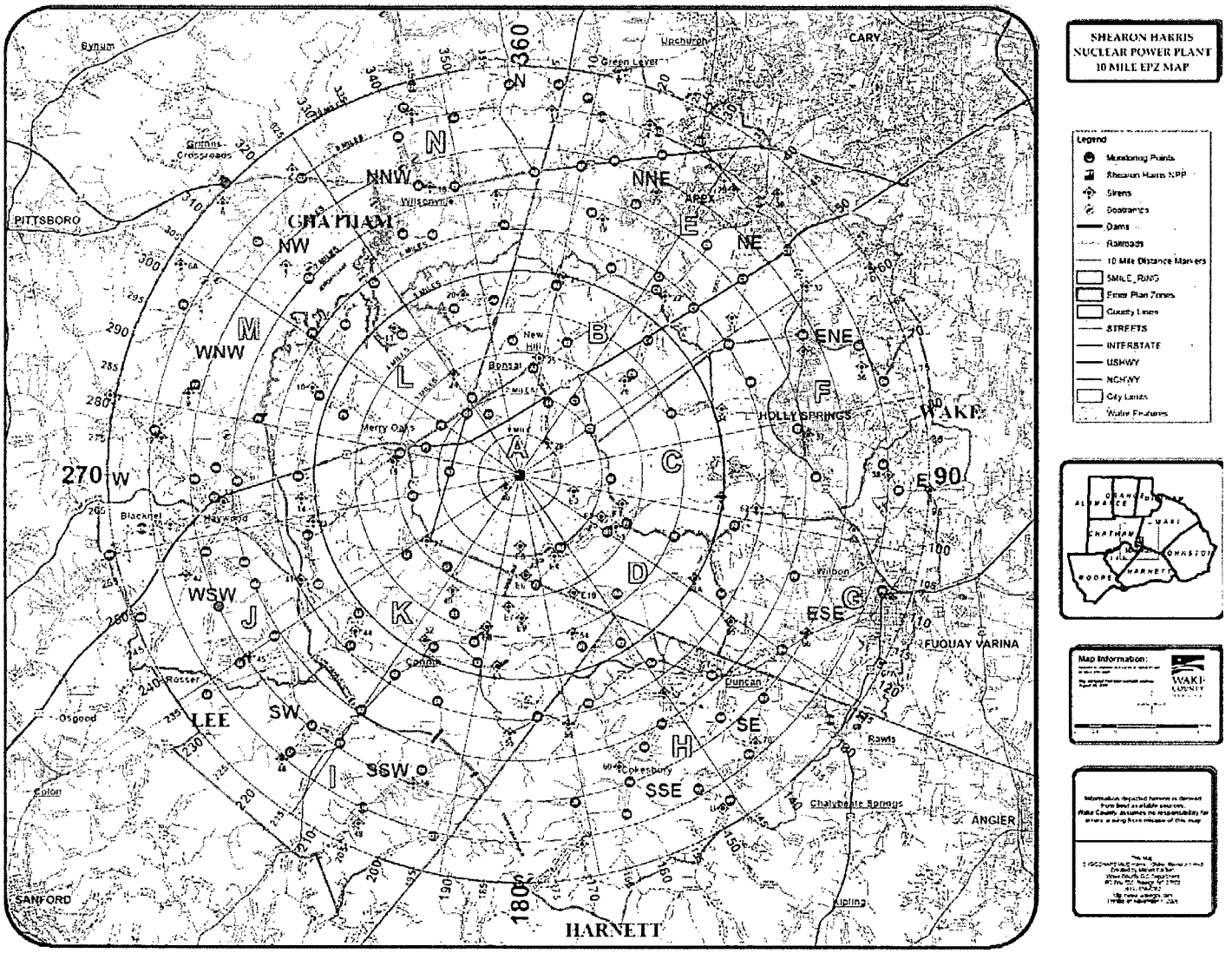

Figure 1.5-3

HNP Site Plan and Emergency Facilities

HNP SITE MAP

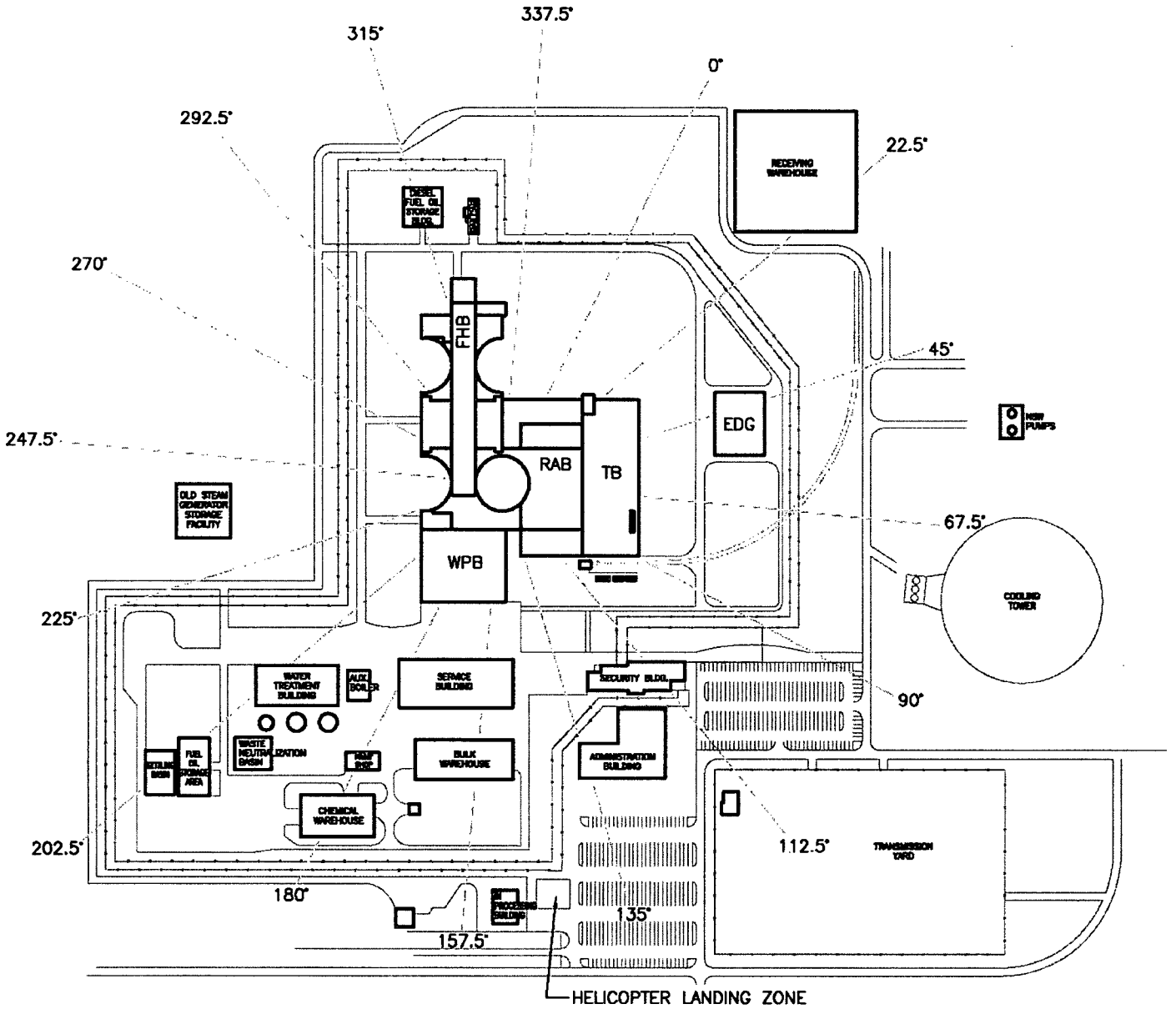

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Table 1.8-1

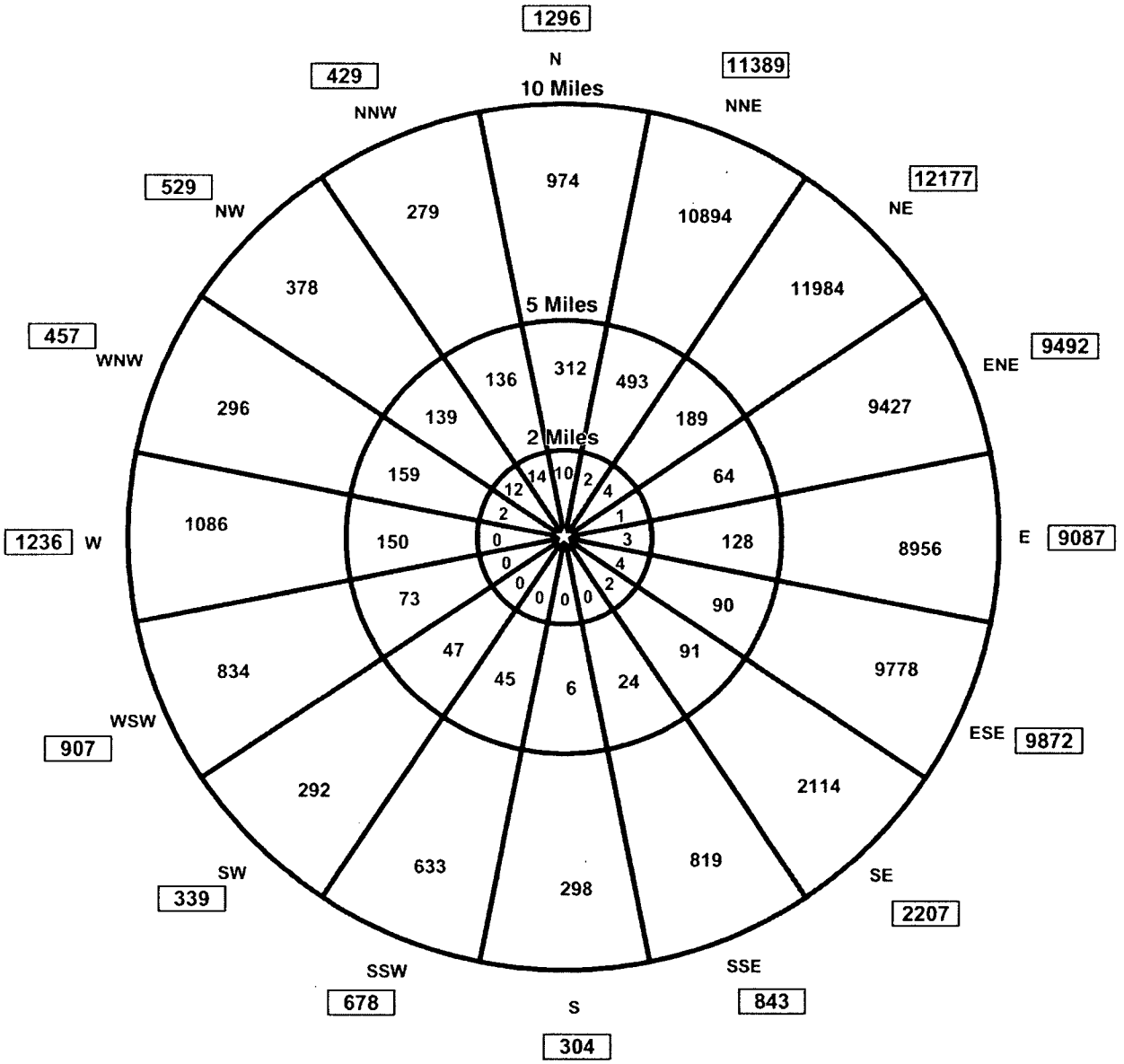
Population Data by Sub-Zone - Summer Weekend Weather**

Subzone	Permanent Resident		Seasonal	Transient	Special Facility	Total Population
	Auto-Owning	Non Auto-Owning				
A	0	0	0	450	0	450
B	1,234	25	0	1,090	12	2,361
C	192	18	2	603	0	815
D	171	15	0	2	0	188
E	25,277	868	17	2,075	124	28,361
F	12,613	716	19	256	22	13,626
G	11,420	1,088	18	1,149	154	13,829
H	2,777	194	24	129	0	3,124
I	691	111	12	2	0	816
J	899	99	8	4	0	1,010
K	547	74	11	213	0	845
L	641	68	7	5,965	0	6,681
M	1,386	124	14	4,427	0	5,951
N	597	10	0	3,829	0	4,436
Full EPZ	58,445	3,410	132	20,194	312	82,493

** This scenario represents the largest population present within the 10-mile EPZ during an analyzed evacuation situation. This is based on the "Evacuation Time Estimates for the Harris Nuclear Plant, October 29, 2002".

Figure 1.8-1

Demographic Information by Sector

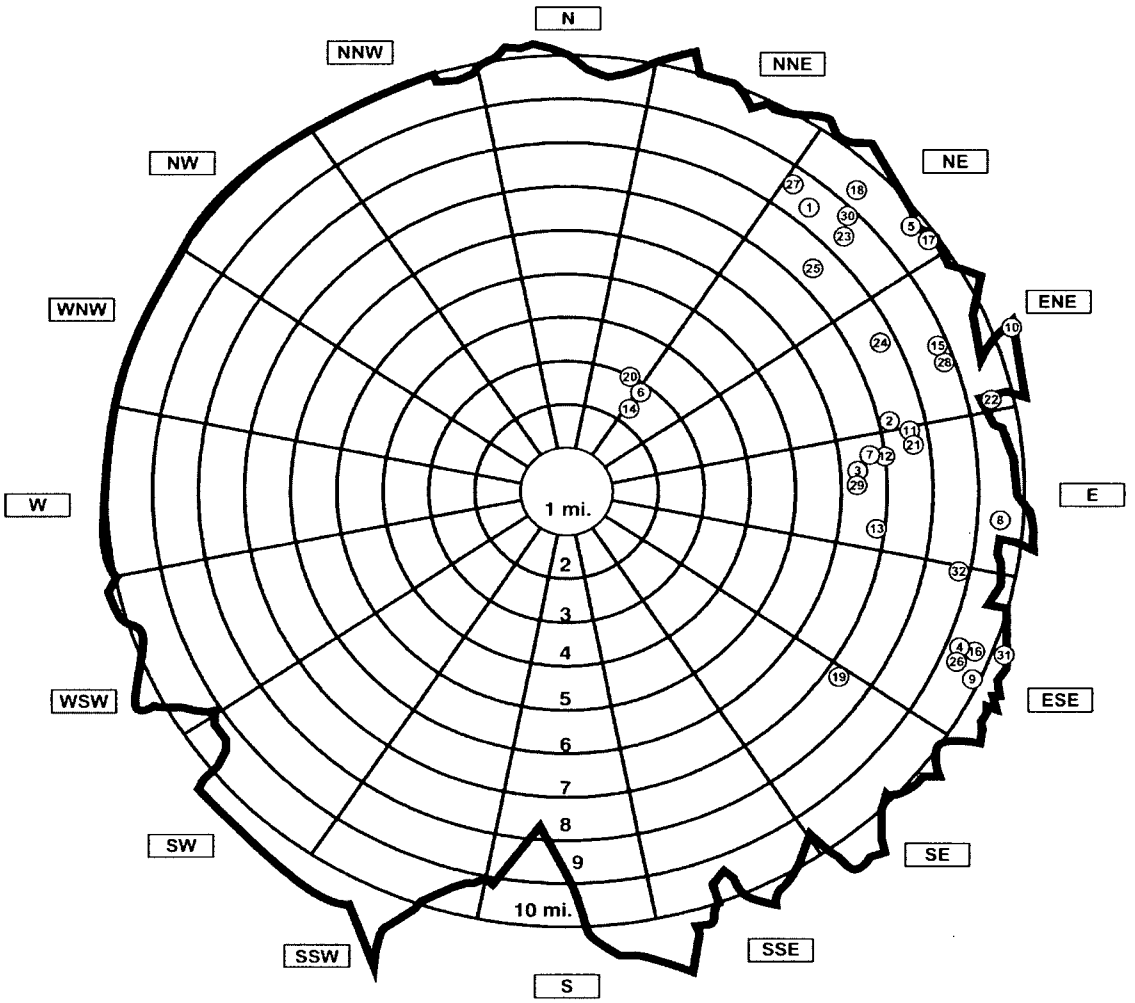


POPULATION TOTALS			
Distance (Miles)	Population	Total Miles	Total Population
0-2	54	0-2	54
2-5	2,146	0-5	2,200
5-10	59,042	0-10	61,242

NOTE: Data is based on the "Evacuation Time Estimates for the Harris Nuclear Plant, October 29, 2002."

Figure 1.8-2

Hospital and Family Care Facilities Located in the HNP 10-Mile EPZ



1	Atwater Rest Home	12	Hickory St. Group Home	23	Rex Nursing Care Ctr of Apex
2	Autumn Green Adult Care Home	13	Hood Family Care Home	24	Rose Haven Rest Home
3	Avent Ferry Home	14	James' Rest Home	25	Seagroves Family Home
4	Brighton Manor	15	Johnson's Home	26	Southern Wake Hospital
5	Blanche Drive	16	Kinton Court	27	Spring Arbor of Apex
6	Brown's Family Care Home	17	Lifespan Services of Wake Co.	28	St. Mark's Manor
7	Country Lake Group Home	18	Mason Street Group Home	29	Trotters Bluff
8	Evans-Watson Home	19	Mims Family Care Home	30	VOCA Olive Home
9	Fuguay-Varina Homes Elderly	20	Morrison's Family Care Home	31	VOCA-Creekway
10	Harrison Home	21	Murchision Adult Family Living	32	Windsor Point
11	Herbert Reid Home	22	Peace Haven		

Table 1.8-2

HNP Plume Exposure EPZ Evacuation Time Estimates

Wind Direction (Degrees From)	Evacuation Area	Sub-zones Impacted	Summer Weekday (Good Weather)	Summer Weekend (Good Weather)	Late Fall Weekday (Adverse Weather)	Summer Evening (Good Weather)
2-Mile Radius	2-mile	A	91	76	91	46
5-mile Radius	5-mile	A, B, C, D, K, L	151	212	151	151
348-10	2-Mile + 5 Mile	A, D, K	91	91	96	76
	2-Mile + 10 Mile	A, D, K, H, I	151	151	151	151
11-34	2-Mile + 5 Mile	A, K	91	91	91	76
	2-Mile + 10 Mile	A, K, H, I, J	151	151	151	151
35-56	2-Mile + 5 Mile	A, K	91	91	91	76
	2-Mile + 10 Mile	A, K, I, J, M	151	151	151	151
57-79	2-Mile + 5 Mile	A, K, L	151	212	151	151
	2-Mile + 10 Mile	A, K, L, I, J, M	151	279	151	151
80-101	2-Mile + 5 Mile	A, K, L	151	212	151	151
	2-Mile + 10 Mile	A, K, L, J, M	151	279	151	151
102-124	2-Mile + 5 Mile	A, K, L	151	212	151	151
	2-Mile + 10 Mile	A, K, L, J, M, N	176	297	151	151
125-146	2-Mile + 5 Mile	A, B, L	151	212	151	151
	2-Mile + 10 Mile	A, B, L, M, N	176	305	151	151
147-169	2-Mile + 5 Mile	A, B, L	151	212	151	151
	2-Mile + 10 Mile	A, B, L, E, M, N	189	295	318	252
170-191	2-Mile + 5 Mile	A, B, L	151	212	151	151
	2-Mile + 10 Mile	A, B, L, E, M, N	189	295	318	252
192-214	2-Mile + 5 Mile	A, B	151	151	151	151
	2-Mile + 10 Mile	A, B, E, N	189	257	318	252
215-236	2-Mile + 5 Mile	A, B, C	151	151	151	151
	2-Mile + 10 Mile	A, B, C, E, F	253	317	375	360
237-259	2-Mile + 5 Mile	A, B, C	151	151	151	151
	2-Mile + 10 Mile	A, B, C, E, F, G	253	338	375	347
260-281	2-Mile + 5 Mile	A, B, C, D	151	151	151	151
	2-Mile + 10 Mile	A, B, C, D, F, G, H	152	289	249	272
282-304	2-Mile + 5 Mile	A, C, D	91	91	91	76
	2-Mile + 10 Mile	A, C, D, F, G, H	152	278	249	272
305-326	2-Mile + 5 Mile	A, C, D, K	91	91	91	76
	2-Mile + 10 Mile	A, C, D, K, F, G, H	152	278	249	272
327-347	2-Mile + 5 Mile	A, D, K	91	91	96	76
	2-Mile + 10 Mile	A, D, K, G, H, I	151	159	204	157
Full EPZ	10 Mile	Full EPZ	253	346	375	360

Evacuation times include notification and alerting of the public via primary means (15 minutes), mobilization and preparation of the public for evacuation, and evacuation to the outer boundary of all the local planning zones being evacuated.

Source: Evacuation Time Estimates for the Plume Exposure Pathway Emergency Planning Zone: Shearon Harris Nuclear Power Plant, October 2002.

Table 1.8-3

Schools Located in the HNP 10-Mile EPZ

School	Quadrant	Distance from Plant (miles)
Apex Elementary	NE	8.8
Apex High	NE	10.4
Apex Middle	NE	8.8
Baucom Elementary	NE	9.1
Community Partners High School	ENE	7.1
Fuquay-Varina Middle	ESE	9.8
Fuquay-Varina High	ESE	9.2
Holly Ridge Elementary	ENE	8.2
Holly Ridge Middle	ENE	8.2
Holly Springs Elementary	ENE	7.6
Lincoln Heights Elementary	ESE	8.9
Lufkin Road Middle	NE	8.7
Moncure Elementary	W	6.8
Montessori Center for Children	NNE	9.5
Olive Chapel Elementary	NNE	7.3
Salem Elementary	NNE	10.2
St. Mary Magdalene	NNE	7.7

2.0 ORGANIZATION AND RESPONSIBILITIES

2.1 General

There are requirements for actions in an emergency that go beyond those encountered during routine operations. To meet these additional demands and provide an effective response to the emergency, the HNP Emergency Plan employs an organizational concept that has four features.

A. Whenever the Plan is activated, a single individual is charged with the responsibility for and the authority to direct all actions necessary to respond to the emergency.

B. The primary responsibility of the individual in charge is to assure that all emergency response functions are carried out. Upon activation of the Plan, this individual is freed of all other responsibilities and thus able to focus on managing the emergency response.

C. Specific individuals are assigned the responsibility of carrying out predefined critical actions and emergency measures.

D. There is a mechanism established to provide additional resources as necessary to respond to the emergency, which provides continuity of response on each critical action.

This concept of organization is compatible with and integrated into the normal mode of operation. The shift operating crew is routinely required to correct minor malfunctions of equipment and to diagnose the consequences of radioactivity releases. There are a number of procedures to guide operators in responding to equipment malfunctions and instrument alarms. There are also procedures to maintain effective control over contamination and radiation exposures. Emergency procedures basically involve an extension of these existing plant procedures.

2.2 Emergency Organization

The emergency response resources available to respond to an emergency consist of the personnel at the plant, at Corporate Headquarters, at other Company nuclear plants, the Harris Energy & Environmental Center and, in the longer term, at other organizations involved in the nuclear industry. Throughout Progress Energy there exists a staff of well-trained and experienced engineers, scientists, and technicians. These personnel represent a pool of technical expertise that can be called upon to provide additional support to the corporate emergency response and recovery organizations, if required. Corporate emergency response personnel do not receive specific training for emergency response and do not take actions which implement this emergency plan.

The plant Emergency Response Organization (ERO) is composed of a broad spectrum of personnel with specialties in operations, maintenance, engineering, radiochemistry, health physics, material control, fire protection, security, and emergency planning. The greatest numbers of personnel with these specialties are available during day shift operations; however, needed specialists can be recalled to the site at any time.

The first line of defense in responding to an emergency lies with the normal on-duty operating shift when the emergency begins. Shift members are assigned defined emergency response roles, as shown in Table 2.2-1 that are to be assumed whenever an emergency is declared. As additional personnel are called in to the plant, a smooth transition occurs since each individual knows ahead of time what their responsibilities will be. A current call list of ERO members is maintained in the Main Control Room and procedures are available to activate the ERO automatically or manually.

The Company is committed to providing staffing to effectively contain any emergency which might occur at its nuclear facilities. Depending on the emergency at hand, personnel with required expertise will be contacted on a priority basis as shown in Table 2.2-1. Additional personnel will be available to provide communications, on-site and off-site radiological assessment, repair and corrective actions, and technical support within a short period of time. Depending on weather conditions, 30-45 minutes should provide enough time to make the appropriate staff available to augment the plant on-shift organization. The plant ERO will continue to be augmented such that within 60-75 minutes after notification, additional personnel will be added to provide the necessary support. Additional personnel will continue to supplement the on-site ERO as necessary to meet the requirements of this Plan.

The fully augmented on-site ERO is shown in Figure 2.2-1 and personnel assignments are provided in Table 2.2-1 and/or procedures. The on-site ERO utilizes the basic plant organization structure as the principle guideline in emergency assignments. This philosophy assures whenever possible, that personnel will be performing emergency functions that are similar to their normal operating duties. Each emergency position has a succession of command from assigned, trained alternates.

2.3 Command and Control

The position of Site Emergency Coordinator is activated for command and control purposes upon declaration of an emergency. Until relieved by the Emergency Response Manager, the Site Emergency Coordinator is delegated the authority to act on behalf of the Company to manage and direct all emergency operations involving the facility. Upon activation of the Emergency Operations Facility, the Emergency Response Manager assumes responsibility of overall emergency response and performs those requirements for all off-site related activities. The Site Emergency Coordinator maintains overall on-site emergency responsibilities including emergency classification and, after EOF activation, reports to the Emergency Response Manager.

The Superintendent - Shift Operations on duty at the time the emergency is declared shall initially assume the position of Site Emergency Coordinator from the Main Control Room.

The following conditions for command and control apply:

A. If the Site Emergency Coordinator becomes incapacitated for any reason, a designated alternate shall assume the position of Site Emergency Coordinator.

B. Once the Technical Support Center is activated the position of Site Emergency Coordinator is transferred from the Main Control Room to a qualified individual in the TSC.

C. The Site Emergency Coordinator, or Emergency Response Manager after the EOF is activated, may not delegate the responsibility for notification of and making recommendations to authorities responsible for off-site measures.

D. The Site Emergency Coordinator may consult with others, but may not delegate the responsibility to determine the appropriate emergency action level for the conditions.

E. The Site Emergency Coordinator is authorized to request Federal and State assistance until the EOF is activated, whereupon such requests are made under the direction of the Emergency Response Manager.

NOTE: If deemed prudent in order to ensure an adequate response to the emergency, the Site Emergency Coordinator-MCR may direct that the TSC and/or EOF assume responsibility for any/all discrete functions prior to reaching full staffing levels or to activate only those functions which the SEC-MCR feels are necessary for an adequate emergency response.

F. The conditions for transfer of designated responsibilities from the Superintendent-Shift Operations (Site Emergency Coordinator-MCR) to the Site Emergency Coordinator-TSC and the Emergency Response Manager (EOF) are:

1) The TSC and EOF are ready to be activated and to assume emergency functions.

2) The Site Emergency Coordinator-TSC and the Emergency Response Manager have received a briefing on the status of the emergency.

2.4 Assignment of Responsibilities

All emergency response personnel with responsibilities listed in 2.4.1 through 2.4.5 will:

- Be trained and qualified to perform the assigned responsibilities as specified in Section 5.2.
- Be formally relieved by a qualified alternate trained for duty in the particular position before leaving that position.
- Maintain a record of activities where appropriate.

2.4.1 Main Control Room

A. Superintendent-Shift Operations: Until an emergency is declared, the Superintendent-Shift Operations has the following responsibilities relating to the Emergency Plan:

1) Direct the activities of the Operations staff (USCOs, COs, and NLOs).

2) Recognize an off-normal condition as indicated by instrument readings or observation.

3) Implement any Emergency Operating Procedures.

4) Determine when an Emergency Action Level has been met or exceeded, declare an emergency, and assume the position of Site Emergency Coordinator-MCR.

B. Site Emergency Coordinator-MCR: The primary person assigned to the position of Site Emergency Coordinator-MCR during the initial stages of an emergency is the Superintendent-Shift Operations. The assigned alternates are on-shift Licensed Senior Control Operators as designated in accordance with operations procedures. Once the Technical Support Center is activated the responsibilities of Site Emergency Coordinator-MCR are turned over to the Site Emergency Coordinator-TSC and the Emergency Response Manager in accordance with the implementing procedures.

The Site Emergency Coordinator-MCR, shall not delegate the following responsibilities:

1) Classification of the emergency.

2) Approval of required notifications made to the State/Counties and the NRC.

3) Establishment of on-site mission priorities in response to the emergency.

4) Approval of planned radiation exposures for HNP personnel in excess of 5 Rem TEDE or entry into radiation fields greater than 25 Rem/hr.

5) Review and approval of deviations from Technical Specifications or license conditions.

6) Authorization of the administration of Potassium Iodide to on-site emergency workers.

7) Approval of Protective Action Recommendations made to the State/Counties.

8) Termination of the emergency.

C. Plant Operations Director: The Plant Operations Director, located in the Main Control Room after activation of the Technical Support Center, is responsible to the Site Emergency Coordinator-TSC for providing direction to the Main Control Room Staff, the Fire Brigade, and the First Aid Teams. The POD is trained as a SAMG decision maker whose focus is on the operational aspect of the strategy developed by the TSC.

D. Site Incident Commander: A Site Incident Commander is established on all shifts. When a fire occurs, the Site Incident Commander is the on-scene commander for fighting the fire and directs the activities of the Fire Brigade. The Site Incident Commander reports to the Site Emergency Coordinator-MCR or to the Plant Operations Director after activation of the Technical Support Center.

E. Fire Brigade: When a fire is announced, the Fire Brigade reports to the Site Incident Commander. If a fire occurs, the Fire Brigade reports to the Fire Staging Area where fire-fighting equipment is located, and then responds to the fire scene. The fire brigade is composed of on-shift personnel trained in fighting fires as described in Section 5.2.

F. First Aid Team: A First Aid Team is established on all shifts. The First Aid Team performs/coordinates emergency first aid and search and rescue activities. The First Aid Team reports to the Site Emergency Coordinator-MCR or to the Plant Operations Director after activation of the Technical Support Center.

G. Emergency Communicator-MCR: Initially filled with on-shift personnel, is appointed by and reports to the Site Emergency Coordinator-MCR and is responsible for communicating with:

1) Off-site authorities (County, State, NRC, and so forth) to perform required notifications of the declaration, upgrading, termination of an emergency prior to the activation of the TSC and EOF.

2) The plant Emergency Response Organization (during off-hours) when HNP emergency facilities are being activated.

3) Local Immediate Response Organizations (medical, fire, law enforcement, and so forth) if their assistance is needed.

2.4.2 Technical Support Center

A. Site Emergency Coordinator-TSC: The Site Emergency Coordinator-TSC is responsible for overall command and control of the on-site response to the emergency. The Site Emergency Coordinator is also responsible for providing guidance to the Technical Analysis Director, Radiological Control Director, Communications Director, Security Director, Plant Operations Director and the Emergency Repair Director.

Upon activation of the Technical Support Center the Site Emergency Coordinator-TSC relieves the Site Emergency Coordinator-MCR of the following major responsibilities:

1) Classification of the emergency.

2) Establishment of on-site mission priorities in response to the emergency.

3) Approval of planned radiation exposures for on-site personnel in excess of 5 Rem TEDE or entry into radiation fields greater than 25 Rem/hr.

4) Review and approval of deviations from Technical Specifications or license conditions if the Site Emergency Coordinator-TSC is a Superintendent-Shift Operations, or ensure that such deviations are approved by a Superintendent-Shift Operations.

5) Authorization of the administration of Potassium Iodide to on-site emergency workers.

6) A trained SAMG decision maker whose focus is on the development and prioritization aspect of the SAMG strategy.

7) Termination of the emergency.

B. TSC-Senior Reactor Operator: The TSC-Senior Reactor Operator is located in the Technical Support Center and reports to the Site Emergency Coordinator-TSC and directs the TSC-ERFIS Operator. The TSC-Senior Reactor Operator is responsible for providing technical assistance related to plant conditions and operations and to perform monitoring and evaluations required for Severe Accident Management Guidelines.

C. TSC-ERFIS Operator: The Technical Support Center ERFIS Operator reports to the TSC-SRO and is located in the Technical Support Center. The position is responsible for providing/displaying any information from ERFIS requested by Technical Support Center personnel.

D. Technical Analysis Director: The Technical Analysis Director reports to the Site Emergency Coordinator-TSC and is located in the Technical Support Center. The Technical Analysis Director is responsible for providing direction to the Technical Support Center Accident Assessment Team, perform monitoring and evaluation required for Severe Accident Management Guidelines and to direct AAT members to evaluate strategies that implement Severe Accident Management Guidelines.

E. TSC-Accident Assessment Team: The TSC-Accident Assessment Team reports to the Technical Analysis Director and is located in the Technical Support Center. The team is composed of a Shift Technical Advisor, Core Performance Engineer, Electrical/I&C Engineer, and Mechanical Engineer. They are responsible for providing recommendations to the Technical Analysis Director on problems as assigned.

F. Communications Director: The Communications Director, located in the Technical Support Center, reports to the Site Emergency Coordinator TSC. The Communications Director is responsible for ensuring notification and communications to Offsite Authorities including the NRC and providing direction to the Emergency Communicator-NRC, TSC-Telecomm/Computer Support, TSC Logkeeper and the Admin Team.

G. Emergency Communicator-NRC: The Emergency Communicator-NRC is located in the Technical Support Center and reports to the Communications Director. The Emergency Communicator-NRC is responsible for:

1) Generating required written notifications to the NRC in a timely manner.

2) Establishing contact with the NRC via the Emergency Telecommunications System and providing any requested information of the status of the emergency.

H. TSC-Telecomm/Computer Support: TSC-Telecomm/Computer Support personnel are located in the Technical Support Center and report to the Communications Director. They are responsible for providing technical assistance required in the areas of telecommunications or computer support.

I. TSC Admin Team: The TSC Admin Team is located in the Technical Support Center and is composed of a Librarian and Admin Support personnel. They report to the Communications Director and are responsible for providing any documents, prints or other clerical services as requested by personnel in the Technical Support Center.

J. TSC Logkeeper: The TSC Logkeeper is located in the Technical Support Center and reports to the Communications Director. The TSC Logkeeper is responsible for recording the major activities that occur in the Technical Support Center during an emergency.

K. Radiological Control Director: The Radiological Control Director is located in the Technical Support Center and reports to the Site Emergency Coordinator-TSC. The Chemistry Coordinator and the Radiological Control Coordinator, both located in the Operations Support Center, report to the Radiological Control Director. The Radiological Control Director is responsible for:

1) Providing direction to onsite health physics and chemistry emergency response actions.

2) Ensuring that the Site Emergency Coordinator and other Directors in the Technical Support Center are kept informed of radiological/chemical conditions on and off site.

L. TSC HP Technician: The TSC HP Technician, normally located in the Technical Support Center, reports to the Radiological Control Director and is responsible for providing radiological support and monitoring activities within the TSC.

M. Security Director: The Security Director, normally located in the Technical Support Center, reports to the Site Emergency Coordinator-TSC and has the following major responsibilities:

1) Maintaining plant security in accordance with the provisions of the HNP Security Plan and Safeguards Contingency Plan.

2) Coordinating the accountability of personnel inside the Protected Area.

3) Providing Security Force personnel in support of emergency activities.

2.4.3 Operations Support Center

A. Emergency Repair Director: The Emergency Repair Director, located in the Operations Support Center, reports to the Site Emergency Coordinator-TSC. The Emergency Repair Director is responsible for providing direction to the total on-site maintenance and equipment restoration effort from the Operations Support Center.

B. Damage Control Coordinator: The Damage Control Coordinator, located in the Operations Support Center, reports to the Emergency Repair Director. The Damage Control Coordinator is responsible for providing direction to the Damage Control Team Leaders, Maintenance Planners, and OSC Logkeeper.

C. Damage Control Team Leaders: The Damage Control Team Leaders are appointed by the Damage Control Coordinator. They are responsible to the Damage Control Coordinator for on-the-scene supervision of the Damage Control Teams to which they are assigned.

D. Damage Control Teams: The Damage Control Teams are dispatched by the Damage Control Coordinator, from their initial assembly point in the Operations Support Center, to the scene of an emergency repair or damage assessment requirement. The Damage Control Teams report to the on-scene Damage Control Team Leader and are composed of mechanical, instrument and control, and electrical maintenance personnel.

E. Maintenance Planners: Maintenance Planners, located in the Operations Support Center, report to the Damage Control Coordinator. The Maintenance Planners are responsible for developing plans for emergency repair, determining spare parts needed to make the repairs and estimating the amount of time required to perform the emergency repairs.

F. OSC Logkeeper: The OSC Logkeeper, located in the Operations Support Center, reports to the Damage Control Coordinator. The OSC Logkeeper is responsible for recording the major activities that occur in the Operations Support Center during an emergency.

G. Radiological Control Coordinator: The Radiological Control Coordinator, located in the Operations Support Center, is responsible to the Radiological Control Director for providing direction to the Radiological Control Teams during an emergency.

H. Radiological Control Teams: Radiological Control Teams report to the Radiological Control Coordinator and are composed of health physics personnel. They assemble initially in the Operations Support Center and are subsequently dispatched wherever personnel radiation control and decontamination functions are needed.

I. Chemistry Coordinator: The Chemistry Coordinator, located in the OSC, is responsible to the Radiological Control Director for providing direction to the Chemistry Team during an emergency.

J. Chemistry Team: Chemistry Teams report to the Chemistry Coordinator and are composed of plant chemistry personnel. They assemble initially in the Operations Support Center and are subsequently dispatched to sampling stations and the laboratory.

2.4.4 Emergency Operations Facility

A. Emergency Response Manager: The Emergency Response Manager, located in the Emergency Operations Facility, is responsible for overall command and control of the HNP response to the emergency. The Emergency Response Manager is also responsible for providing guidance to the Technical Analysis Manager, Radiological Control Manager, Communications Manager, and the Admin and Logistics Manager.

Upon activation of the Emergency Operations Facility the Emergency Response Manager relieves the Site Emergency Coordinator-MCR of the following major responsibilities:

1) Approval of required notifications to the State/Counties.

2) Approval of planned radiation exposures for off-site HNP personnel in excess of 5 Rem TEDE or entry into radiation fields greater than 25 Rem/hr.

3) Approval of the administration of Potassium Iodide to off-site HNP emergency workers.

4) Approval of Protective Action Recommendations.

5) Direct interface with offsite authorities.

6) Coordination of Dose Projection and Environmental Monitoring activities.

7) A trained SAMG decision maker whose focus is on the offsite consequences of the strategy recommended by the TSC. The ERM has the ultimate approval authority for strategy implementation.

B. EOF-Senior Reactor Operator: The EOF-Senior Reactor Operator is located in the Emergency Operations Facility and reports to the Emergency Response Manager. The EOF-Senior Reactor Operator is responsible for providing technical information and assistance related to plant conditions and operations.

C. EOF ERFIS Operator: The EOF ERFIS Operator reports to the EOF Senior Reactor Operator and is located in the Emergency Operations Facility. The position is responsible for providing/displaying any information from ERFIS requested by Emergency Operations Facility personnel.

D. Emergency Preparedness Advisor: The Emergency Preparedness Advisor, located in the Emergency Operations Facility, reports to the Emergency Response Manager in the EOF and advises the Emergency Response Manager and other Emergency Response Organization personnel on implementation of the Emergency Plan and implementing procedures.

E. News Coordinator: The News Coordinator, located in the Emergency Operations Facility, reports to the Emergency Response Manager. The News Coordinator has the responsibility for preparing and coordinating the approval of news releases.

F. Administrative and Logistics Manager: The Administrative and Logistics Manager, located in the Emergency Operations Facility, reports to the Emergency Response Manager and is responsible for direction of activities of the Administrative Team Leader and Admin Building Assembly Area Leader.

G. EOF Telecomm/Computer Support: EOF Telecommunications/Computer Support personnel are located in the EOF and report to the Administrative and Logistics Manager. They are responsible for providing technical assistance required in the areas of telecommunications or computer support.

H. Admin Team Leader: The Admin Team Leader, located in the Emergency Operations Facility, reports to the Administrative and Logistics Manager and is responsible for directing the actions of the Admin Team.

I. Admin Team: The Admin Team, located in the Emergency Operations Facility, consists of a Setup Leader, Librarian and Admin Support personnel. They report to the Admin Team Leader and are responsible for providing any documents, prints or other clerical services as requested by personnel in the Emergency Operations Facility.

J. EOF Logkeeper: The EOF Logkeeper is located in the Emergency Operations Facility and reports to the Admin Team Leader. The EOF Logkeeper is responsible for recording the major activities that occur in the Emergency Operations Facility during an emergency.

K. Assembly Area Leader: The Assembly Area Leader is responsible to the Admin and Logistics Manager, or prior to activation of this position, the Site Emergency Coordinator, for coordinating the activities in the Admin Building Assembly Area.

L. Technical Analysis Manager: The Technical Analysis Manager reports to the Emergency Response Manager and is responsible for direction of activities of the Emergency Operations Facility Accident Assessment Team.

M. EOF Accident Assessment Team: The EOF Assessment Team reports to the Technical Analysis Manager and is located in the Emergency Operations Facility. The team is composed of a Civil Engineer, Electrical Engineer, I&C Engineer, and Mechanical Engineer. They are responsible for providing recommendations to the Technical Analysis Manager on problems as assigned.

N. Radiological Control Manager: The Radiological Control Manager, located in the Emergency Operations Facility, reports to the Emergency Response Manager. The Radiological Control Manager is responsible for providing direction to the Dose Projection Team Leader, Technical Advisor and the EOF Health Physics Technician. The Radiological Control Manager is also responsible for:

1) Providing direction to offsite health physics emergency response actions.

2) Ensuring that the Emergency Response Manager and other Managers in the EOF are kept informed of radiological/chemical conditions on and off site.

O. EOF HP Technician: The EOF HP Technician, normally located in the Emergency Operations Facility, reports to the Radiological Control Manager and is responsible for providing radiological support and monitoring activities within the EOF.

P. Technical Advisor: The Technical Advisor, located in the Emergency Operations Facility, reports to the Radiological Control Manager. The Technical Advisor assists the Radiological Control Manager and staffs the HPN Line when requested by the NRC.

Q. Dose Projection Team Leader: The Dose Projection Team Leader, located in the Emergency Operations Facility, reports to the Radiological Control Manager. The Dose Projection Team Leader provides guidance to the Environmental Field Coordinator and the Dose Projection Team.

R. Dose Projection Team: The Dose Projection Team reports to the Dose Projection Team Leader and is located in the Emergency Operations Facility. The Dose Projection Team is responsible for performing source term and offsite dose calculations.

S. Environmental Field Coordinator: The Environmental Field Coordinator, located in the Emergency Operations Facility, is responsible to the Dose Projection Team Leader. The Environmental Field Coordinator is responsible for providing direction to the Environmental Monitoring Teams.

T. Environmental Monitoring Teams: Environmental Monitoring Teams report to the Environmental Field Coordinator after activation of the Emergency Operations Facility, or, prior to activation of the Emergency Operations Facility, to the Site Emergency Coordinator -MCR. Teams assemble at HE&EC and are subsequently dispatched in vehicles to the surrounding area. They are responsible for offsite plume tracking, monitoring and other sampling activities.

U. Communications Manager: The Communications Manager, located in the Emergency Operations Facility, reports to the Emergency Response Manager. The Communications Manager is responsible for ensuring notification and communication to offsite authorities and providing direction to the Emergency Communicator-State/County and the Representatives to the State and County EOCs.

V. Emergency Communicator-State/Counties: The Emergency Communicator-State/Counties, located in the Emergency Operations Facility, reports to the Communications Manager. The Emergency Communicator-State/Counties is responsible for conducting timely notification and transfer of emergency information to the State and Counties.

W. Emergency Communicator-Corporate Comm/JIC: The Emergency Communicator-Corporate Comm/JIC, located in the Emergency Operations Facility, reports to the Communications Manager. The Emergency Communicator-Corporate Comm/JIC is responsible for providing information to support public information emergency response activities.

X. Representatives to the State/County EOCs: The Representatives to the State/County EOCs are located at the following:

N.C. State EOC	State Administrative Building in Raleigh, N.C., and is the principle Emergency Operations Center.
Wake County EOC	Wake County Courthouse, Raleigh, N.C.
Chatham County EOC	Law Enforcement Center, Pittsboro, N.C.
Harnett County EOC	Law Enforcement Center, Lillington, N.C.
Lee County EOC	Sanford Municipal Center, Sanford, N.C.

These representatives act as technical liaisons to facilitate communications and the coordination of information flow between the Site Emergency Coordinator or Emergency Response Manager and State/local authorities. They report to the Communications Manager in the Emergency Operations Facility.

2.4.5 Joint Information Center

A. Company Spokesperson: The Company Spokesperson, located in the Joint Information Center, reports to the Emergency Response Manager. The Company Spokesperson is responsible for providing guidance to the JIC Director, Admin Coordinator and Public Information Coordinator. The Company Spokesperson also has the following major responsibilities:

1) Maintain command and control of the Joint Information Center.

2) Coordinates and directs responses to media inquiries.

3) Ensure that the composition and timeliness of Progress Energy News Releases are adequate.

4) Conduct periodic briefings with the news media.

5) Provide for timely exchange of information between other spokespersons.

B. Technical Specialist: The Technical Specialist, located in the Joint Information Center, reports to the Company Spokesperson. The Technical Specialist is responsible for obtaining and developing technical emergency information.

1) Gather information from the EOF for Progress Energy news media briefings.

2) Provide timely and accurate technical information to the media during formal briefings.

C. JIC Director: The JIC Director, located in the Joint Information Center, reports to the Company Spokesperson. The JIC Director is responsible for the development and coordination of news releases and dissemination of information.

D. Administrative Coordinator: The Administrative Coordinator, located in the Joint Information Center, reports to the Technical Specialist. The Administrative Coordinator provides guidance to the Administrative Assistants and Media Badging Specialist.

E. Administrative Assistant: The Administrative Assistant, located in the Joint Information Center, reports to the Administrative Coordinator. The Administrative Assistant is responsible for providing administrative services and supplies to Joint Information Center personnel.

F. Media Badging Specialist: The Media Badging Specialist, located in the Joint Information Center, reports to the Administrative Coordinator. The Media Badging Specialist is responsible for controlling access to the Media Briefing Area and distributing information.

G. Public Information Coordinator: The Public Information Coordinator, located in the Joint Information Center, reports to the Company Spokesperson and interfaces with the Customer Service Center.

H. Customer Service Center: The Customer Service Center is responsible for staffing telephone lines to respond to calls from the media and public.

2.5 Outside Organization Support

Outside organizations that support HNP in an emergency are described in Annex G.

TABLE 2.2-1

On-Shift Staffing For Emergencies

Functional Area	Major Tasks	Emergency Positions	Minimum Shift Size	Capability for Additions 30-45 min	Capability for Additions 60-75 min
1. Plant Operations and Assessment of Operational Aspects	Control Room Staff	SSO[c]	1	--	--
		USCO	1	--	--
		Control Operators	2	--	--
		Non-Licensed Operators	2[d]	--	--
2. Emergency Direction and Control	--	SEC-MCR (SSO[b])	1	--	--
		ERM[a]	--	--	1
		SEC-TSC[a]	--	--	1
3. Notification & Communication	Emergency Communicator	Plant Personnel	1	1	2
4. Radiological Assessment	Offsite Dose Assessment	Dose Projection Team Leader	--	1	--
	Offsite Surveys	Environmental Monitoring Team Personnel	--	2	2
	Onsite Surveys	Radiological Control Team Personnel	--	1	1
	In-plant Surveys	Radiological Control Team Personnel	1	1	1
	Chemistry	Chemistry Team Personnel	1	--	1

(Continued on next page)

NOTES:

[a] Overall direction of facility response is assumed by the ERM when all facilities are activated. The direction of minute-to-minute facility operations remains with the SEC-TSC.
[b] On shift responsibility prior to activation of the EOF and TSC.
[c] After Activation of the EOF and TSC.
[d] One of the two non-licensed operators may be assigned to the Fire Brigade.

TABLE 2.2-1 (continued)

On-Shift Staffing For Emergencies

Functional Area	Major Tasks	Emergency Positions	Minimum Shift Size	Capability for Additions 30-45 min	Capability for Additions 60-75 min
5. Plant Engineering Repair and Corrective Actions	Technical Support	Shift Technical Advisor	1	--	--
		Core Performance Engineering	--	1	--
		Mechanical Engineering	--	--	1
		Electrical Engineering	--	--	1
	Repair and Corrective Actions	Mechanical Maintenance	1[e]	--	2
		Electrical/I&C Maintenance	1[e]	2	1
6. In-Plant Protective Actions	Radiation Protection	Radiological Control Team Personnel	1[e] 1	2	2
7. Fire Fighting	--	--	5[f]	Local Support	
8. First Aid and Rescue Operations	--	Plant Personnel	2[e]	--	--
9. Site Access Control	Security & Accountability	Security Team Personnel	(g)	(g)	(g)
		HNP TOTAL (Less Security):	**15**	**11**	**16**

NOTES:

[e] May be provided by shift personnel assigned other functions.

[f] Fire Brigade per FSAR 9.5.1

[g] Per Security Plan.

Figure 2.2-1

On-Site Emergency Response Organization

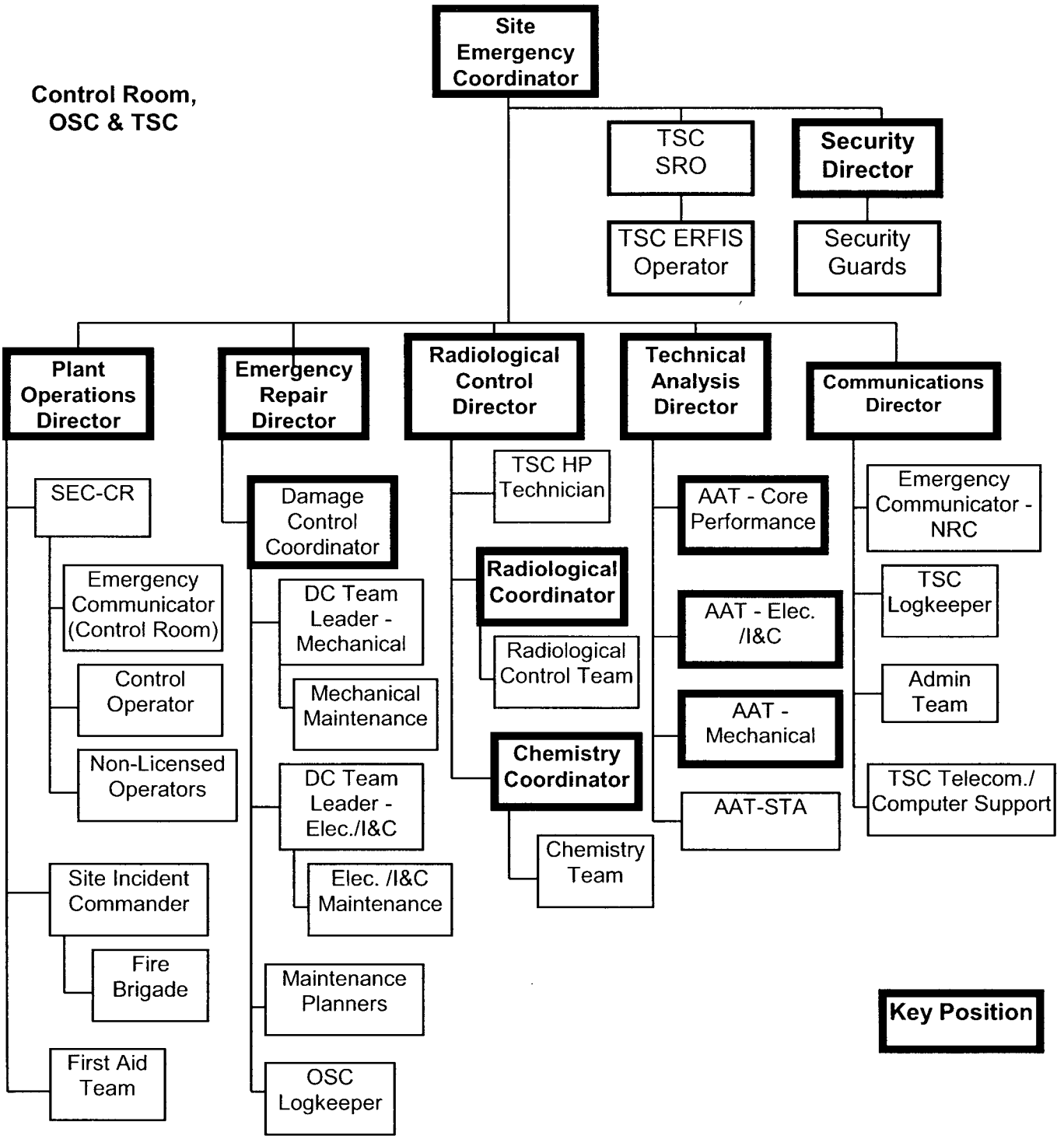
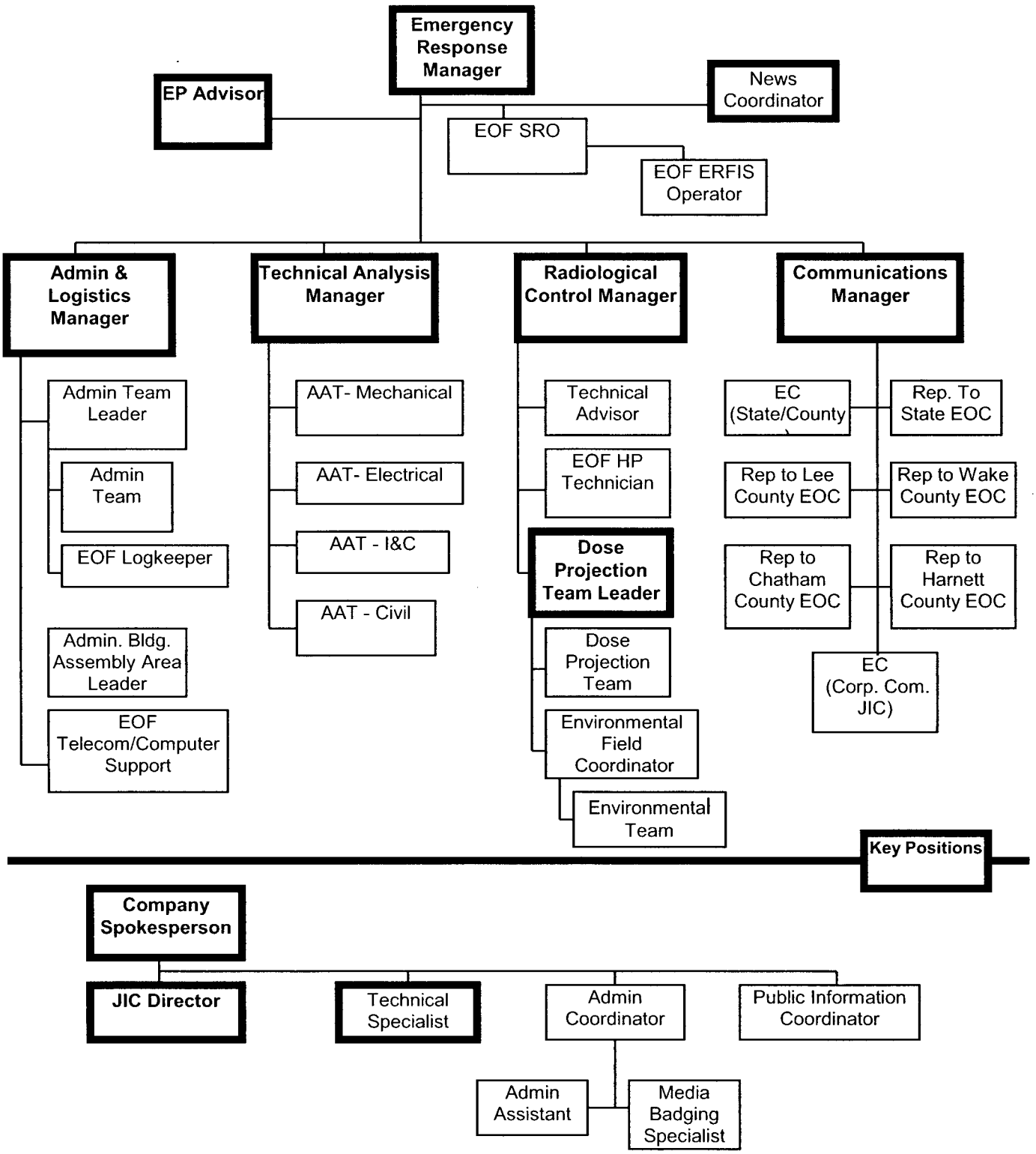


Figure 2.4-1

Off-Site Emergency Response Organization



3.0 EMERGENCY FACILITIES, COMMUNICATIONS, AND EQUIPMENT

3.1 General

The purpose of emergency response facilities is to provide centralized locations for organized command and control of on-site activities and off-site activities performed by the Company such as environmental monitoring. Different groups within the Emergency Response Organization are provided with a location from where they may direct or perform the activities for which they are responsible while providing for coordination of activities with other organizations.

Adequate emergency facilities, communications, and equipment to support emergency response are provided and maintained. Progress Energy Emergency Plans include provision for emergency response facilities as follows:

- Main Control Room (MCR)
- Technical Support Center (TSC)
- Operations Support Center (OSC)
- Emergency Operations Facility (EOF)
- Joint Information Center (JIC)

The Main Control Room is an emergency response facility that is operational on a day-to-day basis. Initially the emergency actions and in plant response would be directed by the Site Emergency Coordinator from the Main Control Room. Operations personnel would be dispatched from their work area located immediately north of the Main Control Room with assistance from on-shift health physics, maintenance, and security personnel as needed.

The facilities, other than the Main Control Room, are unmanned or used for other purposes on a day-to-day basis. In the event of an emergency, the TSC, OSC, EOF, and JIC would be activated in accordance with Section 4 of this Plan, "Emergency Measures and Operations."

In addition to the emergency response facilities, provision is made for on-site and off-site geophysical phenomena monitors (meteorological and seismic); radiological monitors; process monitors; and fire and combustion products detectors for use in initiating emergency measures and assessing the emergency. Each of these is described in subsequent paragraphs of this Chapter. Typical emergency supplies available for emergency facilities are indicated in Table 3.1-1.

3.2 Main Control Room (MCR)

3.2.1 Characteristics

A. Located in the Reactor Auxiliary Building as shown in Figure 1.5-3.

B. Main Control Room habitability and radiation protection is as described in Section 6.4 of the FSAR.

3.2.2 Functions

A. Reactor and plant control.

B. Interim location for Site Emergency Coordinator.

C. Accident recognition, classification, and mitigation.

D. Notification of off-site agencies.

E. Alerting of on-site personnel.

F. Initial dose projections.

G. Recommendations for immediate protective actions for the public.

H. Activation of HNP/Progress Energy emergency response facilities and recall of emergency personnel.

3.2.3 Emergency Equipment and Supplies

A. Main Control Board.

B. Emergency Response Facility Information System (ERFIS).

C. Safety Parameter Display System (SPDS is part of ERFIS).

D. Measurement and Indication of Regulatory Guide 1.97 (Rev. 2) variables (ERFIS).

E. Radiation Monitoring System (RMS).

F. Fire Detection System (adjacent room).

G. Seismic Monitoring Cabinet.

H. Gross Failed Fuel Detector Console.

I. Kitchen and sanitary facilities.

J. Reliable voice communications with the TSC, OSC, EOF, NRC Operations Centers, and State and local government 24-hour warning points and State EOC.

K. See Table 3.1-1.

3.3 Technical Support Center (TSC)

3.3.1 Characteristics

A. Located within the Protected area at Elevation 324'-0" in the Fuel Handling Building, Section "K," approximately 400 feet walking distance from the Main Control Room (MCR) (primary route).

B. Protective clothing and portable breathing apparatus are kept in both the TSC and Main Control Room for personnel who must traverse between the two. Alternative paths are available that can be used based upon radiological conditions as determined by monitoring teams.

C. Exterior walls, roof, and floor are built to Seismic Category I, tornado, wind, and missile safety-related criteria.

D. Provided with radiation protection equivalent to Main Control Room habitability requirements such that the dose to an individual in the TSC for the duration of a design basis accident is less than 5 Rem TEDE. The Emergency Ventilation System includes HEPA and carbon filtration.

E. Environmentally controlled to provide room air temperature, humidity and cleanliness appropriate for personnel and equipment.

F. Reliable power for habitability systems and battery pack emergency lighting are provided.

G. Equipment is nonsafety-related and nonredundant.

H. Designed taking into account good human factors engineering principles.

3.3.2 Functions

A. Command center for Site Emergency Coordinator and assigned staff upon TSC activation. The TSC is officially activated by the Site Emergency Coordinator (SEC) when the necessary personnel and equipment are assembled at the TSC to carry out an emergency response function required by the emergency conditions.

B. Receives and displays plant status and parameters data on ERFIS.

C. Provides notifications to the NRC via Emergency Telecommunications System.

D. Provides plant management and technical support to plant operations personnel.

E. Directs emergency response teams in the plant.

F. Assists the Main Control Room in accident assessment.

G. Performs emergency classification.

3.3.3 Emergency Equipment and Supplies

A. Reliable voice communications with the Main Control Room, EOF, OSC, NRC Operations Center and State and local government 24-hour warning points and State EOC as described in Section 3.8 which follows.

B. Video System capable of displaying ERFIS information (such as, plant data, SPDS, and RMS) as discussed in Section 3.9.1.

C. All reference materials, including Mechanical and Electrical Systems Drawings; Plant Operating Manual; FSAR; Corporate, Plant, State, and Local Emergency Plans, are available in hardcopy or online.

D. Decontamination and monitoring area.

E. Survey meter and area radiation monitor.

F. Fax and photocopier equipment.

G. See Table 3.1-1.

3.4 Operations Support Center (OSC)

3.4.1 Characteristics

A. Located in the Waste Processing Building inside the Protected Area (Figure 1.5-3).

B. The total area is approximately 1500 square feet in the Waste Processing Building HP Tech Work Area. This area includes a separate Command and Control area for coordinating and planning of OSC activities in addition to sufficient area for team members to standby for activities. Additional space in excess of 8500 square feet is available in adjacent offices and locker rooms to accommodate additional personnel as may be required.

C. Alternate locations include the Turbine Building 261' North and Technical Support Center.

3.4.2 Functions

A. Assembly location for emergency teams for receipt of special equipment and assignments.

B. Dispatching of emergency teams.

3.4.3 Emergency Equipment and Supplies

A. Reliable voice communications with the Main Control Room, EOF, and TSC.

B. Supplies and equipment as shown in Table 3.1-1.

3.5 Emergency Operations Facility (EOF)

3.5.1 Characteristics

A. Located at Harris Energy & Environmental Center within 10 miles of the plant (see Figure 1.5-2).

B. Approximately 4800 square feet of space for approximately 70 persons including 14 NRC personnel.

C. Shielded to a protection factor (PF) of 5 and ventilated with an Emergency Ventilation System, with HEPA and carbon filtration, such that the total 30 day dose from all sources of a design basis accident for an individual in the EOF does not exceed 5 Rem TEDE or its equivalent to any other part of the body.

D. Structurally built in accordance with Uniform Building Code.

E. Environmentally controlled to provide room air temperature, humidity, and cleanliness appropriate for personnel and equipment.

F. Backup power for habitability systems and battery pack emergency lighting are provided.

G. Provided with security to maintain readiness and to exclude unauthorized personnel when activated.

H. Designed taking into account good human factors engineering principles.

I. Alternate assembly area location for EOF staff is the 11th floor of Progress Energy Building in Raleigh, N.C.

3.5.2 Functions

A. Command center for Emergency Response Manager and assigned staff.

B. Upon activation, performs off-site notification, protective action recommendations, environmental monitoring, and dose projection.

C. Emergency communications systems monitoring and control.

D. Provides technical analysis and support.

E. Receives and displays plant status and parameters data on ERFIS.

F. Serves as the Recovery Center during recovery operations.

G. Primary location for writing technical news releases. The EOF may provide space for the media on a case-by-case basis, when authorized by the ERM.

3.5.3 Emergency Equipment and Supplies

A. Reliable voice communications with the TSC, Main Control Room, OSC, NRC Operations Centers and State and local government 24-hour warning points and State EOC as described in Section 3.8.

B. Video system capable of displaying ERFIS information (such as, plant data, SPDS, and RMS) as discussed in Section 3.9.1.

C. All Reference materials, including Mechanical and Electrical Systems Drawings; Plant Operating Manual; FSAR; Corporate, Plant, State, and Local Emergency Plans, are available in hardcopy or online.

D. Decontamination and monitoring area.

E. Survey meter and dosimetry.

F. Maps showing evacuation routes, evacuation areas, preselected radiological sampling and monitoring points, relocation centers in host areas, and shelter areas.

G. Fax and photocopier equipment.

H. Additional equipment as discussed in Section 3.8.2.

I. See Table 3.1-1.

3.6 Joint Information Center (JIC)

A. Located at the Progress Energy Customer Service Center in Raleigh, North Carolina, approximately 21 miles from the plant.

B. Serves as the primary location for accumulating accurate and current information regarding the emergency conditions and writing non-technical news releases.

C. Provides work space and phones for public information personnel from the state, counties, NRC, FEMA, and industry-related organizations.

D. Provides responses to media inquiries through media communicators who staff telephones that the media can call for information about an emergency.

E. Implements provisions for rumor control by providing a number of telephones which members of the public, who hear rumors, can call for factual information.

3.7 Non-Progress Energy Facilities

3.7.1 North Carolina-State Emergency Facilities

A. North Carolina State Emergency Operations Center (SEOC)

1) Assembly location for Governor, State Emergency Response Team and other officials as described in the State of North Carolina Emergency Response Plan.

2) Primary location for the coordination with federal, state, local authorities, and HNP as described in the State of North Carolina Emergency Response Plan.

3) Primary facility located at the Division of Emergency Management Headquarters, 116 W. Jones Street, Raleigh, North Carolina.

4) Alternate facility located at the Disaster Recovery Operations Center, 1830-B Tillery Place, Raleigh, North Carolina.

B. State Emergency Response Team (SERT)

1) A designated staff of specialists who assist State officials as described in the State of North Carolina Emergency Response Plan.

2) Located at the Division of Emergency Management Headquarters, 116 W. Jones Street, Raleigh, North Carolina.

3.7.2 County Emergency Operations Centers

A. Chatham County Emergency Operations Center (EOC)

1) Located in the Law Enforcement Center in Pittsboro

2) Functions are described in the State of North Carolina Emergency Response Plan

B. Harnett County Emergency Operations Center (EOC)

1) Located in the Harnett County Law Enforcement Building in Lillington.

2) Functions are described in the State of North Carolina Emergency Response Plan.

C. Lee County Emergency Operations Center (EOC)

1) Located in the Police Department of the Sanford Municipal Center, Sanford, N.C.

2) Functions are described in the State of North Carolina Emergency Response Plan.

D. Wake County Emergency Operations Center (EOC)

1) Located in the Wake County Courthouse in Raleigh.

2) Functions are described in the State of North Carolina Emergency Response Plan.

3.8 Communications Systems

3.8.1 Plant Communications System

A description of the plant communications systems is contained in Section 9.5.2 of the FSAR and consists of the following:

A. Private Automatic Branch Exchange (PABX) Telephone System covering the Main Control Room, TSC, EOF, and OSC.

B. Site paging system (accessed by Telephone System).

C. Sound-powered telephone system.

D. Two radio communications networks, one for security and one for operations.

E. Dedicated radio system from security center to local law enforcement agencies.

F. Plant PABX telephone system is powered from batteries charged by a rectifier.

G. Backup power is provided to fixed radio equipment.

3.8.2 Harris E&E Center PABX Telephone and Other Radio Systems

A. The Harris E&E Center (HE&EC) PABX telephone system includes:

1) The HE&EC Private Automatic Branch Exchange (PABX) telephone system covers the Main Control Room, TSC, EOF, and OSC.

2) An off-site Notification System (Selective Signaling System) provides communications to State and County warning points and Emergency Operations Centers from the Main Control Room, TSC, EOF, and Auxiliary Control Panel.

3) The HE&EC PABX telephone system is powered from batteries charged by a rectifier.

B. Other radio system includes:

1) Radio communications (separate from plant radios) with mobile and portable units used by the Environmental Monitoring Teams.

2) Radio communications on the State Environmental Monitoring and Area B Channels.

3) Mobile and portable radios are battery-powered.

3.8.3 Off-Site Communications Systems

A. Corporate Telephone Communications System is interconnected with plant PABX and utilizes microwave transmission equipment.

B. Commercial telephone connections to PABX, emergency telephone system, dedicated lines to emergency facilities, and lines to the Joint Information Center.

C. Load Dispatcher Radio Communications.

D. NRC Emergency Telecommunications System (ETS) Phone.

E. NRC Health Physics Network (HPN) Phone.

3.8.4 Dialogic Communicator Automated Notification System

A computerized emergency response personnel call out computer is available to notify the HNP Emergency Response Organization personnel and the NRC resident inspector of emergency declarations at the plant. The system provides instructions for activation of the on-site emergency facilities and the near site Emergency Operations Facility.

Provisions are provided for remote activation of the system via telephone lines and for password protection from unauthorized use of the system.

3.9 Assessment Equipment

Use of the equipment described in this section during an emergency is detailed in Plant Procedures.

3.9.1 Emergency Response Facilities Information System (ERFIS) and Safety Parameter Display System (SPDS)

ERFIS receives raw data from sensors in the field and processes the data to provide meaningful information for the user. The ERFIS system consists of the following major parts: Field input multiplexer, ERFIS Host Computer, Plant Process Network, Plant Server, and ERFIS-EDS personal computer work-stations. ERFIS-EDS work-stations are located in the Main Control Room, Technical Support Center (TSC), Emergency Operations Facility (EOF) and the ERFIS Computer Room. Some designated work-stations will have the capability to access the Site Business Local Area Network (LAN) when not in ERFIS-EDS mode. The TSC and EOF work-stations can be configured to run from the Simulator during drills and exercises.

The field input multiplexer obtains analog, digital, and sequence-of-events inputs from field sensors. The ERFIS Host receives these inputs, converts the raw analog inputs to engineering units, and updates the Current Value Table (CVT) at rates of 0.1 to 30 seconds. Processing consists of alarming points that exceed predefined limits, archiving input data, and performing various calculations and reports on a periodic or on-demand basis.

The ERFIS-EDS Plant Servers contain a copy of the CVT that is updated over shared memory with the ERFIS Host. The ERFIS-EDS work-stations are connected to the servers via dedicated Ethernet LANs. The work-stations communicate with the server in EDS Mode or over a serial link to the ERFIS Host in Emulation Mode. User functions use one of these two methods of communication. EDS tasks are those that run on the local work-station and get CVT data from the server. Emulation tasks use serial communication with the ERFIS Host and receive the entire display over the serial link.

There is a Primary and Backup ERFIS Host computer and a Primary and Backup ERFIS-EDS Plant Server. When a failure occurs on a primary system, an automatic failover occurs to the backup system. Failover of the ERFIS Host and ERFIS-EDS Server occur independently of each other.

The Safety Parameter Display System (SPDS) is a software subsystem of the ERFIS. The SPDS consists of a top-level display showing the status of Critical Safety Function Parameters at all times and a general display area for a summary display, graphic display of status trees, or plots of key parameters. An assigned SPDS display is provided in the Main Control Room and ERFIS terminals in any location can display SPDS.

The SPDS will access all available signals and will display information related to:

A. Subcriticality

B. Core Cooling

C. Heat Sink

D. (Reactor Vessel) Integrity

E. Containment

F. (Reactor Coolant System) Inventory

Secondary displays will consist of graphic representations of the above critical safety functions and their status.

Additional detail and design criteria for the SPDS are provided in Item I.D.2 of the FSAR TMI Appendix.

3.9.2 Seismic and Hydrological Data

HNP has two distinct and separate seismic monitoring systems for the site. A seismic monitoring system, described in Section 3.7.4 of the FSAR and PLP-114, is located inside safety-related structures and measures horizontal and vertical acceleration. A second system, consisting of two free field strong motion detectors, is located at points on-site and must be read locally at each location. The recorded analog signal can be put on tape playback in the Main Control Room.

Offsite seismic monitoring information can be obtained from the United States Geological Survey's National Earthquake Information Center.

The design basis flood, probable maximum precipitation, and other improbable, conceivable extremes in hydrologic natural phenomena are well below any design limits for this site. Refer to FSAR Sections 2.4.2 and 2.4.3.

3.9.3 Radiological Monitoring

The Radiation Monitoring System (RMS) is a plant-wide radiation information gathering and control system encompassing the process and effluent monitors and the area and airborne monitors. Radiological monitors are provided for plant systems as described in the FSAR Sections 11.5 and 12.3.4

Effluent radiological monitors are provided for:

- Plant Vent Stacks
- Turbine Building Drains
- Tank Area Drain Transfer Pumps
- Treated Laundry and Hot Shower Tank Pumps
- Secondary Waste Sample Tank
- Main Steam Lines

The types, ranges, and locations of monitors are listed in Tables 11.5.2-1, 11.5.2-2 and 12.3.4-1 of the FSAR.

Typical portable radiation monitors and laboratory equipment are described in Section 12.5 of the FSAR.

The locations of the normal off-site and on-site environmental monitoring stations and the location of the TLD monitoring stations are described in the Off-Site Dose Calculation Manual. Additional predetermined emergency off-site monitoring locations are contained in environmental monitoring procedures.

The Radiation Monitoring System, (RMS) provides the necessary activity or radiation levels required for determining source terms in dose projection procedures. The RMS is data linked to the ERFIS and radiation monitoring channel values are available in the TSC and EOF via ERFIS. The isotopic mix is based upon the mix discussed in NUREG-1741. Grab samples and on-site or off-site monitoring samples can then be analyzed to determine the true isotopic mix and the results used in the computerized dose projection software.

3.9.4 Normal and Post-Accident Sampling Systems

The Primary Sampling System and the Secondary Sampling System are available to collect routine fluid and gaseous samples as described in FSAR 9.3.2.

The post-accident sampling system is designed to collect and analyze targeted fluid and gaseous samples under accident conditions. The system consists of two major components, the liquid sample system and the remote sample dilution panel, or RSDP. The RSDP's purpose is to obtain containment atmosphere samples and it relies on the containment hydrogen monitoring system (FSAR 6.2.5) to be in service to provide a pathway for sample collection.

Samples results are one of several methods used to provide information in support of core damage and offsite dose assessment activities.

3.9.5 Meteorological Instrumentation

The plant has a permanent meteorological monitoring station located within the exclusion area boundary for display and recording of wind speed, wind direction, and differential temperature for use in making off-site dose projections. Meteorological information is presented in the Main Control Room, the TSC, and the EOF by means of a computer. Additional information on the on-site meteorological monitoring system can be found in Section 2.3.3 of the FSAR.

Progress Energy has the capability to access the National Weather Service on a 24-hour-per-day basis to provide backup should the on-site system fail. This backup source of meteorological data is the closest location which can provide reliable representative meteorological information.

Contracted weather services may be contacted during severe weather periods. They analyze national and local weather in order to provide localized weather forecasts for the System or for the HNP area as appropriate. The meteorologists can provide forecasts and current data reflecting conditions corresponding to their evaluation of weather data received from the National Weather Service and other sources. The NRC and State agencies may contact the weather service for appropriately formatted information and check meteorology data (current and forecasted) for the HNP area.

In the event that the on-site meteorological tower or monitoring instrumentation becomes inoperative and the meteorologists cannot be contacted, meteorological data may be obtained directly from the National Weather Service in Raleigh, North Carolina.

3.9.6 Field Monitoring Equipment

Field monitoring equipment will have at least the capability to detect and measure radioiodine in the vicinity of the plant site as low as 1×10^{-7} $\mu Ci/cm^3$. An individual exposed to this concentration for a period of one hour would receive an exposure of about 0.2 Rem or less, a value well below Protective Action Guideline (PAG) levels (See Section 4). A standard air sampler can collect about 0.03 μCi of I-131 in 10 minutes at a concentration of 1×10^{-7} $\mu Ci/cm^3$, which can easily be measured by hand survey meters that utilize probes such as the HP-210. This is a simple test that can serve as an initial check of projected releases based on plant data and can confirm that significant quantities of elemental iodine have been released (the chemical form that would pose a health hazard). More detailed measurements (such as, Sodium Iodide scintillation counters) can be brought into service to provide the longer term higher capabilities to detect and measure very low levels of contamination in the environment, as would be planned for subsequent radiation monitoring efforts.

3.9.7 Laboratory Facilities

Support of the on-site radiation monitoring and analysis effort is provided by HNP's chemistry and counting room facility. This laboratory is the central point for receipt and analysis of in-plant samples and includes equipment for chemical and radioactive analyses. Section 12.5 of the FSAR provides information on laboratory facilities. Additional facilities for counting and analyzing HNP samples can be provided by the H.B. Robinson Nuclear Plant and the Brunswick Nuclear Plant. These laboratories can act as backup facilities in the event that the plant's counting room and laboratory become unusable during an emergency.

Support of the off-site environmental radiation monitoring and analysis effort is provided by the N.C. Radiation Protection Section's laboratory facility, both mobile and fixed and the HE&EC's chemistry and counting room facility. The State's laboratories are the central point for receipt and analysis of off-site samples when HNP is acting as a support agency to the State for ingestion pathway functions. Each lab includes equipment for chemical analyses and for analysis of radioactivity.

3.9.8 Other Plant Assessment Equipment

A. Fire Detection System (FSAR Sections 9.5.1 and 9.5.A)

B. Gross Failed Fuel Detection System

C. Security Systems (Security Plan)

D. Metal Impact Monitoring System (FSAR Section 5.4.6.4)

Table 3.1-1

Typical Emergency Supplies Available For Emergency Facilities

Supplies	MCR	TSC	JIC	OSC	EOF
7 Day supply of food and water.	✓ [a]				
Protective Clothing (Anti-Cs)	✓	✓		✓	✓
Air Sampling equipment	✓	✓		✓	✓
Full face respirators	✓	✓		✓	✓
Self-contained breathing equipment	✓	✓		✓	
High and low range portable radiation survey instruments	✓	✓		✓	✓
Emergency personnel monitoring dosimetry	✓	✓		✓	✓
Contamination control supplies such as signs, tags, rope, tape, various forms	✓	✓		✓	✓
Decontamination supplies		✓		✓	✓
Portable Communications Equipment	Radio Remotes	Radio[b] Remotes	(b)	✓	Radio[b] Remotes
Battery-Powered Lanterns		✓	✓	✓	✓
Polaroid Camera				✓	
Mechanical and electrical systems drawings, Plant Operations Manual, FSAR, Corporate, State & Local Emergency Plans		✓			✓
10-mile EPZ Area maps[c]	✓	✓	✓		✓
Copy of Plant Emergency Plan and Procedures	✓	✓	✓	✓ [d]	✓
Environmental Monitoring Kits					(e)
Potassium Iodide Tablets	✓	✓		✓	✓

✓ Indicates equipment/supplies available in this facility

[a] Water supply for the MCR may be stored in onsite warehouse

[b] Portable radio transceivers can be supplied to any emergency facility

[c] Figure 1.5-2 of Emergency Plan in the MCR, wall maps in other facilities.

[d] Procedures Only

[e] Stored near the Harris E&E Center

4.0 EMERGENCY MEASURES AND OPERATIONS

Execution of the HNP Emergency Plan involves a variety of functions including emergency classification, notification, activation, assessment, protective response actions, and recovery. Recovery is discussed in Section 6 of this Plan.

State and local governments and other agencies provide support in implementing the emergency measures in this section as shown in Table 4.0-1 and Annex G.

4.1 Emergency Classification

The four classes of emergency are Unusual Event (equivalent to NRC Notification of Unusual Event), Alert, Site Area Emergency, and General Emergency. The operating staff is provided formal training to recognize off-normal plant conditions and categorize them within the parameters of the four emergency classes.

Emergency action levels are based upon the fission product barrier concept. The three barriers that protect the public from a release of radioactive fission products (fission product barriers) are the fuel cladding, the reactor coolant system boundary, and the containment. This concept has its basis in NUREG-0654, Appendix 1 where emergency events are found that correspond to failures or jeopardy of the three basic fission product barriers. The concept used is that if any one of the fission product barriers are in jeopardy or breached, an Alert will be declared. If any combinations of two barriers are either in jeopardy or breached, a Site Area Emergency is declared. If all three are in any combination of jeopardy or breach, a General Emergency is declared. The categorizations of events in NUREG-0654, Appendix 1 for Unusual Events are separately evaluated as they do not directly correspond with failure or jeopardy of a fission product barrier. In addition to looking at the status of fission product barriers, the emergency action levels include the NUREG-0654 emergency action level events that are external to the plant, (natural or man-made disaster phenomena), or are not directly attributable to the condition of the reactor, (shutdown systems, fire, dose projections).

The categorization of events according to one of the four emergency classes is implemented through the Emergency Action Level (EAL) system. The system is composed of two subsystems: The Unusual Event Action Level Matrix and the EAL Network/Flow Path. The Unusual Event Action Level Matrix provides a set of plant conditions and events which coincide with the conditions associated with the Unusual Event. The Unusual Event Action Level Matrix is presented at the bottom of Figure 4.1-2. For the upper three emergency classes, the Emergency Action Level (EAL) System uses an integrated set of flowchart instructions. As with the Unusual Event Action Levels, the EAL System also associates plant conditions and events with the three upper classes of emergency, but it does so through a symptomatic (vice diagnostic) methodology using critical safety function status trees.

This allows the EAL System to interface smoothly with the Emergency Operating Procedure (EOP) Network, thus assuring the rapid and correct classification of emergencies. Figures 4.1-1 and 4.1-2 are the flowcharts which together form the EAL Network. Abnormal Operating Procedures, Functional Restoration Procedures, End Path Procedures, and Flow Path Procedures contain specific direction for using the EAL Network whenever conditions warrant. A Plant Emergency Procedure provides the Unusual Event Action Levels, the EAL Network, the EAL Flow Path, as well as instructions for using them.

The Site Emergency Coordinator (or the Superintendent-Shift Operations when no emergency has been declared) will declare any one of the four emergency classes where EALs have been exceeded, or in their judgment, the status of the plant warrants such a declaration.

4.2 Notification

A. The warning message form to the State and Counties is contained in PEP-310 and provides information required by NUREG-0654, II.E.3 and 4. The form is approved by the Site Emergency Coordinator-MCR or Emergency Response Manager after EOF activation and provided to the appropriate Emergency Communicator (EC-Control Room or EC-State/County) as a message text.

B. The Emergency Communicator will use the electronic Notification Form on OSI soft/Plant Information System (OSI/PI) or the Selective Signaling System phone to simultaneously notify the 24-hour-per-day, manned, State Warning Point, State EOC and County Warning Points with the notification message. Emergency Operations Centers will be notified upon activation at the State and Counties in lieu of the Warning Points. This message will be initiated to all Counties and the State within 15 minutes for all emergency classifications.

C. The North Carolina Emergency Response Plan in Support of the Harris Nuclear Power Plant describes procedures for State and Local officials to make a public notification decision promptly (within about 15 minutes) on being informed by the plant of an emergency.

D. Event notifications to the NRC will be made as soon as possible and within one hour using a Reactor Plant Event Notification worksheet or other notification message approved by the SEC-CR/ERM.

E. Plant personnel designated on the Emergency Response Organization are notified of an emergency condition by the Emergency Communicator using a computer-based automated duty roster system and a system of pagers. These personnel are requested to be available on site to respond as directed by the Site Emergency Coordinator. During a Security Threat alternate assembly areas may be used to protect the responding ERO.

F. Personnel on site are notified by the Main Control Room using a plant Public-Address System announcement that an emergency has been declared and what actions should be taken.

G. Corporate personnel on the Emergency Response Organization will be notified of an emergency at HNP in accordance with plant emergency procedures.

H. The off-site agencies that will be notified of an emergency condition at HNP are shown in Tables 4.2-1 through 4.2-4.

I. Notifications to off-site agencies shall include a means of verification or authentication such as the use of dedicated communications networks, verification code words, or providing callback verification phone numbers.

4.3 Activation

A. Facilities are to be activated for each emergency class in accordance with Tables 4.2-1 through 4.2-4. The facilities can be declared activated when minimum staffing levels (as specified in the implementing procedures) have been met.

B. The Communications Director will verify the readiness and operability of emergency facilities in the Technical Support Center (TSC) and the Administrative and Logistics Manager will verify the readiness and operability of the Emergency Operations Facility (EOF).

C. The Emergency Repair Director will verify the readiness of the Operations Support Center.

D. The Company Spokesperson will verify the readiness of the Joint Information Center.

E. Security measures will be established for the Emergency Operations Facility upon its activation.

F. Personnel in the Emergency Response Organization will report to their preassigned locations in the emergency facilities.

4.4 Assessment Actions

4.4.1 Evaluation of Plant Conditions

A. Evaluation of plant conditions by Operations personnel is accomplished through observation of the control boards, monitoring panels, ERFIS data displays, the SPDS displays, and information provided by the Accident Assessment Teams in the TSC and EOF.

B. The Accident Assessment Teams evaluate plant conditions by using ERFIS displays, damage assessment reports, seismic data, fire reports, dose projections, and monitoring data.

C. Core damage assessment methodology is applied by the TSC Accident Assessment Team utilizing data provided from the ERFIS, the Main Control Room, the Radiation Monitoring System, and the Chemistry Team.

4.4.2 Plant Radiological Monitoring

A. The Radiation Monitoring System (RMS) will be used by Operations personnel and Radiological Control Team members to determine radiological conditions within the plant or abnormal radioactive effluents.

B. The Radiological Control Team will provide in-plant radiological measurements to supplement and confirm the RMS.

C. The Primary and Post-Accident Sampling is performed by the Chemistry Teams, to provide radiochemistry samples for analysis. The location for sampling is dependent on the anticipated radioactivity of the sample. Both the primary sample sink and the post accident sample panel may be used. Results of the samples will assist in the determination of core damage and dose assessment activities.

4.4.3 Dose Projection

A. Dose projections will be made to determine the off-site doses that might result from an accident and the possible need for protective action (see 4.5.1).

B. The dose projection capability on the computer can use source term data from the Radiation Monitoring System and meteorological data from the on-site meteorological station. This system will aid personnel in the Main Control Room or EOF in determining recommendations for protective action for the public.

C. Data from the Radiation Monitoring System that is used to determine the source term for dose projections is quality tagged. If the data is off-scale, then it is suspect or bad, and the effluent radiation levels must be determined by sampling at the radiation monitor test points. The results from analyzing the samples can be entered into the dose projection program as a substitute value.

D. Radionuclide mix assumptions (the accident source term) are contained in the computerized dose projection program as default values for use until actual sampling data can be substituted.

E. The National Weather Service and contracted weather sources will be contacted as needed to forecast atmospheric conditions affecting the site.

4.4.4 Environmental Monitoring

A. Environmental sampling and monitoring points are specified in environmental monitoring procedures.

B. Environmental Monitoring Teams will be activated in accordance with Table 2.2-1 and the appropriate implementing procedures. Additional teams can be called upon for support as needed.

C. The Environmental Monitoring Teams will track the plume from any radiological release by monitoring radiation levels as indicated on radiological measuring instruments and by obtaining and analyzing air samples.

D. The Environmental Monitoring Teams will aid in assessing liquid release pathways by sampling liquid effluents, such as the cooling tower blowdown.

E. Additional TLDs will be placed at various locations near the site and be periodically replaced throughout an emergency to ensure that a cumulative dose record is obtained.

4.5 Protective Actions for the Public

4.5.1 Protective Action Guides

A. Exposure guidelines for the plume pathway are based on the Environmental Protection Agency Protective Action Guides (PAGs) discussed in EPA-400-R-92-001, "Manual of Protective Action Guides and Protective Actions for Nuclear Incidents" as follows:

IF:	**THEN**:
Projected dose is: < 1 Rem TEDE and < 5 Rem CDE Thyroid	No actions are necessary.
Projected dose is: ≥ 1 Rem TEDE or ≥ 5 Rem CDE Thyroid	Evacuate unless constraints make it impractical. Shelter as a minimum.

B. If projected doses exceed minimum EPA PAGs and timely evacuation is practical, then evacuation is recommended. If timely evacuation is not practical then sheltering may be recommended.

1) HNP personnel normally do not have the necessary information to determine whether off site conditions would require sheltering instead of evacuation. An effort to base Protective Action Recommendations on external factors (such as road conditions, traffic/traffic control, weather or offsite emergency response capabilities) is usually performed by the State.

2) The State may consider sheltering for doses up to 5 Rem TEDE for hazardous environmental conditions, and for doses up to 10 Rem TEDE for special populations. Hazardous environmental conditions may include the presence of severe weather or competing disasters. Special populations may include institutionalized or infirm persons.

C. The State may consider the use of KI (potassium iodide) for doses equal to or greater that 5 REM CDE adult thyroid. This PAG dose trigger is referenced in the North Carolina Radiological Emergency Response Plan, Annex K - RADIOLOGICAL PROTECTIVE DRUGS

4.5.2 Protective Action Recommendations (PARs)

A. Protective action guidelines for the plume pathway EPZ are based on NUREG-0654 Supplement 3, "Criteria for Protective Action Recommendations for Severe Accidents."

B. Plant conditions, projected dose and dose rates, and/or field monitoring data are evaluated to develop PARs for the purpose of preventing or minimizing exposure to the general public. PARs are made to the State and County agencies that are responsible for implementing protective actions for the general public within the plume exposure EPZ. PARs are approved by the Emergency Response Manager. In an emergency which requires immediate protective actions be taken prior to activation of the emergency facilities, notification approval is given by the SEC-CR directly to the State and County agencies.

C. Possible recommendations issued by HNP at a General Emergency include:

1) Evacuation of the general public within the two (2) mile radius and five (5) miles downwind. All other areas within the EPZ are sheltered (minimum PAR issued).

2) Evacuation of the general public within the five (5) mile radius and ten (10) miles downwind. All other areas within the EPZ are sheltered.

3) Consideration of the use of KI (potassium iodide).

4.5.3 Ingestion Pathway Protective Measures

The responsibility for specifying protective measures to be used for the ingestion pathway rests with the State. These measures include the methods for protecting the public from exposure due to deposited radioactive materials and the consumption of contaminated water and foodstuffs.

4.5.4 Public Alerting, Warning, and Notification

Alerting, warning, and notification of the public are steps taken by government agencies to advise the public that protective actions are necessary. Alerting, warning, and notification will be provided by sounding sirens, activation of tone-activated radios within five miles of the plant, and supplemented by announcements made through radio and television (EAS), sound trucks, bullhorns, and knocking on doors. Patrol boats will be used in alerting people on Jordan Lake and Harris Lake in accordance the North Carolina Emergency Response Plan in support of the Shearon Harris Nuclear Power Plant Annex G. Supplemental sirens are provided for alerting boaters on Harris Lake. Public warning when deemed necessary will be accomplished as described in the North Carolina Emergency Response Plan in Support of the Shearon Harris Nuclear Power Plant. Preplanned emergency messages and emergency instructions have been prepared and included as Annex D to that plan.

Civil defense sirens mounted on 50-foot utility poles have been installed by Progress Energy at various locations within a 10-mile radius of the HNP.

Activation of the sirens for warning of the public will be accomplished from the county Warning Points or county Emergency Operations Centers: the Public Safety Communications Centers of Harnett, Lee and Chatham Counties, and the Raleigh Communications Center or the Emergency Operations Center for Wake County. Sirens can also be activated from the Harris Nuclear Plant. The sirens in each county are independently controlled by radio. The outdoor warning system provides the capability for providing an alerting signal within the 10-mile EPZ, within 15 minutes from the time the decision is made to notify the public of an emergency situation.

Activation of the tone alert radios by the National Weather Service will be accomplished after they receive a request from Wake County or the State of North Carolina. The tone alert radios provide an indoor alerting signal within a 5-mile radius of the plant.

4.6 Protective Actions for On-Site Personnel

4.6.1 On-Site Alerting, Warning, and Notification

The Plant Public-Address (PA) System will be used to alert and notify on-site personnel of an emergency condition within 15 minutes. Security personnel with portable loudspeakers may be used to augment the PA system and/or check evacuation of outlying areas, as available. The Plant PA System has the capability to transmit recognizable alarms which will alert personnel of an emergency situation, and to transmit voice communications which will notify personnel of those actions which should be taken. The Plant PA System is supplemented by the use of the normal and emergency communication systems located on site as described in Section 3.8 of this Plan.

4.6.2 Evacuation and Personnel Accountability

All personnel on-site will be accounted for within 30 minutes of the declaration of a Site Area Emergency or General Emergency and continuously thereafter during the emergency (accountability may be accomplished at any time prior to the declaration of a Site Area Emergency, if deemed appropriate). Accountability may be delayed during a security event if the SEC (in consultation with Security) determines that performing accountability could be detrimental to the safety of plant personnel. If accountability is delayed, then accountability should be performed immediately when conditions warrant.

Personnel within the Protected Area will be accounted for and missing individual(s) will be identified by Security, Continuous accountability of personnel remaining inside the protected area will be maintained throughout the event. PEP-350 describes the accountability methodology. Search procedures will be implemented to locate unaccounted for persons.

Evacuation of on-site personnel can be accomplished, in accordance with PEP-350, for the Site or the Exclusion Area.

A. A Site Evacuation involves evacuation of all nonessential personnel within the Protected Area, Admin Building, parking lots, cooling tower area, sewage treatment plant, landfill, and intake structures. The site evacuation alarm will be sounded on the Plant PA system. Nonessential personnel (that is, personnel not on the ERO or assisting with the emergency) within the Protected Area will normally exit the Protected Area via the security building in accordance with normal Security procedures. Evacuating personnel may be monitored for contamination by the portal monitors as they exit the Protected Area or with portable friskers in the evacuation monitoring area, based on the situation. ERO personnel not assigned to emergency duties will travel to the HE&EC auditorium. Personnel not on the ERO or assisting with the emergency shall depart the site using personal transportation and follow established evacuation routes.

   Personnel without transportation will arrange for a ride from others who have space in their vehicles.

Nonessential personnel exiting the site will be directed to either proceed to their homes or if radiological conditions warrant, reassemble at a selected off-site assembly area until off-site monitoring and decontamination stations are in place. Personnel exiting evacuated areas will be monitored and decontaminated, if necessary, at county monitoring stations.

B. An Exclusion Area Evacuation involves evacuation of all nonessential personnel and the public within the Protected Area and the site, as well as the surrounding areas controlled by Progress Energy within the Exclusion Area Boundary. In addition to sounding the plant evacuation alarm, personnel in outlying areas can be notified by patrol vehicles. If conditions warrant, evacuating personnel will be instructed to reassemble at the selected remote assembly area until county monitoring and decontamination stations are established.

C. Local evacuations relating to Radiation Control Areas and fire protection are conducted in accordance with plant procedures.

4.6.3 Radiological Exposure Control

A. Radiological and Contamination Control Facilities

Radiation safety controls are established 24 hours per day to contain the spread of loose surface radioactive contamination and monitor personnel exposure. HNP contamination control limits are shown in Table 4.6-1. Emergency exposure guidance is given in Section 4.6.3.D of this plan. The radiation control facilities located in the Waste Processing Building include a contaminated laundry and storage area, clean laundry and storage area, personnel and equipment decontamination area. Additional areas where equipment is decontaminated are located in the Reactor Auxiliary Building (on the 236' and 261' levels) and at the north end of the Fuel Handling Building (on the 261' level). Radiation control and radiation control procedures are described in Section 12.5 of the FSAR.

Temporary facilities to limit contamination and exposure will be established as necessary during an emergency situation. As an example, facilities which can be used for personnel decontamination during an emergency are located in the Turbine Building and at the Harris Energy & Environmental Center. Radiation Control Areas can be expanded by roping off areas and/or establishing access control points to maintain personnel exposure As Low As Reasonably Achievable (ALARA).

B. Exposure Records for Emergency Workers

Emergency workers will receive self reading pocket dosimeters (SRPDs) or equivalent and TLD badges. Dose records will be maintained by the Radiological Control Coordinator in accordance with PEP-330. TLDs are read at the Harris Energy & Environmental Center. They are capable of staffing 24-hour a day.

C. Use of Protective Equipment and Supplies

During the course of an emergency, protective actions will be considered to minimize the effects of radiological exposures or contamination problems

associated with personnel who must work within the affected Radiation Control Area. Measures that will be considered are:

- Use of process or engineering controls.
- Distribution of respirators.
- Use of protective clothing.
- Use of thyroid blocking agents (Potassium Iodide).

The criteria for issuance of respiratory protection and protective clothing are described in plant radiological protection procedures.

Procedures for the administration of radioprotective drugs to employees are described in the plant emergency procedures.

D. Emergency Worker Exposure

1) Dose Limits for workers in an emergency are taken from EPA 400-R-92-001, "Manual of Protective Action Guides and Protective Actions for Nuclear Incidents," U.S. Environmental Protection Agency, May 1992. Much of the discussion in this section is taken in whole from that document.

2) In emergency situations, workers may receive exposure under a variety of circumstances in order to assure protection of others and of valuable property. These exposures will be justified if the maximum risks or costs to others that are avoided by their actions outweigh the risks to which the workers are subjected (or collective dose avoided by the emergency operation is significantly larger than that incurred by the workers involved).

3) Emergency Worker Dose Limits are as follows:

Dose Limit (Rem TEDE)	Activity	Condition
5	All	
10	Protecting valuable property	Lower dose not practicable
25	Lifesaving or protection of large populations	Lower dose not practicable
> 25	Lifesaving or protection of large populations	Only on a voluntary basis to persons fully aware of the risks involved.

4) Limit dose to the lens of the eye to three (3) times the above values and doses to any other organ (including thyroid, skin and body extremities) to ten (10) times the above values.

5) Routine dose limits shall not be extended to emergency dose limits for declared pregnant individuals. As in the case of normal occupational exposure, doses received under emergency conditions should be maintained as low as reasonably achievable.

6) Entry into radiation fields of greater than 25 Rem/hour or emergency exposures in excess of 5 Rem TEDE shall not be permitted unless specifically authorized by the Site Emergency Coordinator for on-site emergency workers and by the Emergency Response Manager for EOF or EOF dispatched personnel.

7) Persons undertaking any emergency operation in which the dose will exceed 25 Rem TEDE should do so only on a voluntary basis and with full awareness of the risks involved including the numerical levels of dose at which acute effects of radiation will be incurred and numerical estimates of the risk of delayed effects.

8) Personnel who will receive emergency related exposure should be selected and controlled in accordance with guidelines contained in the implementing procedures.

E. Decontamination and First Aid

1) Treatment of Injured and Contaminated Persons

Personnel decontamination supplies are located near the WPB 261' First Aid Station. Personnel showers are located in the general area of the main RCA entrance (WPB 261'). Chemical decontamination agents are available from Radiation Control personnel and, except in cases of severe or life-threatening injury, established decontamination procedures should be employed on site prior to medical treatment.

2) Initial First Aid

In cases of severe injury, lifesaving first aid or medical treatment will take precedence over personnel decontamination. In general, the order of medical treatment will be:

- Care of severe physical injuries or illness.
- Personnel decontamination.
- First aid to other injuries.
- Definitive medical treatment and subsequent therapy as required.

Definitive medical treatment, therapy, and evaluation may include radioprotective drugs, urinary bioassays, or whole body counts on persons suspected of inhaling or ingesting a significant amount of radioactive material or may include surveillance and therapy for persons receiving a large whole body dose.

Emergency first aid personnel are available on all shifts. Personnel who are contaminated and who require medical treatment may be treated by these personnel on the scene or at other appropriate locations.

It is anticipated that contaminated personnel will not leave the facility for medical treatment except for cases that require immediate hospitalization. Emergency treatment of contaminated personnel will normally be handled at the plant First Aid Room by personnel on the First Aid Team(s).

First Aid kits are located in various areas of the plant (see ORT-3002). The First Aid Stations/Kits contain various equipment/items necessary to treat injured personnel until off-site agencies can transport patient to appropriate treatment center, if applicable.

3) Decontamination

Radiation safety controls are established to contain the spread of loose surface radioactive contamination. Personnel and equipment leaving contaminated areas are monitored to ensure that equipment, personnel or their clothing are not contaminated. If contaminated above acceptable levels (see Table 4.6-1), they will be decontaminated in accordance with plant procedures. Supplies, instruments and equipment that are in contaminated areas or have been brought into contaminated areas will be monitored for contamination. If found to be contaminated, they will be decontaminated using normal plant decontamination techniques and facilities (discussed in Section 4.6.3.A) or may be disposed of as radwaste.

During emergency conditions, normal plant contamination control criteria will be adhered to as much as possible. Contamination control criteria for returning areas and items to normal use are contained in the plant Health Physics Procedures. These criteria are summarized in Table 4.6-1.

4) Medical Transportation

The Apex Rescue Squad, Inc. has agreed to respond to emergency calls from the plant, including transporting persons with injuries involving radioactive contamination. This service is available on a 24-hour-per-day basis. In cases not involving severe injury, one of the plant vehicles may be used to transport injured individuals. The Apex Rescue Squad, Inc. is included in Annex A, "Agreements".

In cases involving severe injury, the Superintendent - Shift Operations or Site Emergency Coordinator may bypass the Apex Rescue Squad, Inc. and directly call Carolina Air Care or Duke Life Flight and request helicopter transport provided the injured is free of radioactive contamination.

Contaminated injured persons will be accompanied to a medical facility by a Radiation Control Team member carrying survey instrument. If possible, contaminated clothing and equipment may be removed from the patient or the patient may be wrapped in clean sheets or clothing to prevent contamination of the transporting personnel and vehicle.

Rescue vehicles have mobile communications with the Raleigh Communications Center and local receiving hospitals. The plant first aid

team can communicate directly with the rescue vehicles by dialing the cellular phone located in the rescue vehicles.

F. Medical Treatment

1) Hospital Facilities

A specially designated emergency area is maintained in readiness at Rex Hospital for HNP's use for the treatment of contaminated or overexposed patients from the plant. Although this area will be utilized by the hospital when not required by HNP, it will be made available to HNP when required. Equipment is available in the hospital for the emergency treatment of patients. With the facilities and equipment available, extensive decontamination and treatment of an injured patient could be performed, including any surgical treatment that may be required.

WakeMed Raleigh and WakeMed Cary serve as backup medical facilities for HNP personnel should Rex Hospital become unavailable. WakeMed Raleigh serves as the primary medical facility for trauma patients from HNP. WakeMed Raleigh, and Betsy Johnson Regional Hospital, in Dunn, N.C., also possesses the capability for the treatment of contaminated and/or overexposed members of the public.

An emergency kit is maintained at Rex Hospital, WakeMed Raleigh and WakeMed Cary containing supplies and equipment for personnel monitoring and the control of radioactive contamination. These kits contain the following:

- Low-range radiation monitoring instruments for determining contamination levels.
- Personnel monitoring equipment such as self-reading pocket dosimeters and TLDs.
- Decontamination equipment and supplies for both personnel and facility.
- Contamination control equipment and supplies such as protective clothing, signs, ropes, tags, plastic bags.

Agreements with Rex Hospital, WakeMed Raleigh and WakeMed Cary are maintained on file by HNP Emergency Preparedness. These three hospitals are listed in Annex A, "Agreements".

2) Medical Consultants

Medical assistance is available in the Raleigh area from general practitioners who have agreed to provide medical assistance for contaminated patients (See Annex A). Also, the DOE Radiological Assistance Team will provide medical assistance, if required.

G. Contamination Control of Drinking Water and Food

Measures will be taken to control access to potentially contaminated potable water and food supplies on site. Under emergency conditions when a release of activity has occurred, eating, drinking, smoking, and chewing will be not permitted until the facility manager has determined that it is safe to do so. If the drinking water is contaminated above acceptable levels, uncontaminated water will be brought into the plant for the personnel to drink. Emergency food supplies are stored in a secure manner (See Table 3.1-1). Packaged food is located in vending machines in lunch rooms or office areas in the Administration Building, Fuel Handling Building "K" area, Operations Building, or Service Building. If these areas become contaminated because of a release of activity, the machines will be disabled or emptied until it can be verified that the food is not contaminated or the food will be discarded. Food located in the Service Building cafeteria would be verified uncontaminated prior to use.

4.7 Fire-Fighting Assistance

Off-site fire departments will provide support as described in Annex A and Annex G.

4.8 Security Measures

Security measures during an emergency will be employed in accordance with the Plant Security Plan, implementing Security procedures, and Plant Emergency Procedures dealing with personnel accountability, egress, and ingress. Accountability may be delayed during a security event if the SEC (in consultation with Security) determines that performing accountability could be detrimental to the safety of plant personnel. If accountability is delayed, then accountability should be performed immediately when conditions warrant.

HNP has a letter of agreement with the North Carolina National Guard. This letter of agreement specifies that the National Guard will be in communication with HNP security should they be deployed to HNP during a security event. The location of the National Guard on-site personnel will be known and maintained by HNP security. HNP security will be responsible for any evacuation or relocation of National Guard units in the event of a radiological release.

Table 4.0-1

Off-Site Agency Support Summary

Function (NUREG-0654, II.A)	Primary Responsibility	Support Responsibility
Command and Control		
On site	HNP	Progress Energy
Off site	State, County	FEMA
Accident Classification		
On site	HNP	N/A
Off site	N/A	N/A
Warning		
On site	HNP	N/A
Off site	County	State
Notification, Officials		
On site	HNP	Progress Energy
Off site	HNP	State, County, Media
Notification, Public		
On site (such as Visitors)	HNP	N/A
Off site	State, County	State
Communications		
On site	HNP	Progress Energy
Off site	State, County	Phone Company, Progress Energy
Transportation		
On site	HNP/Employees	N/A
Off site	Local Residents	State, County
Traffic Control/Security		
On site	HNP	County
Off site	County	State
Accident Assessment		
On site	HNP	Progress Energy, W
Off site	State	County, Progress Energy, FEMA, DOE
Public Information/Education		
On site	HNP, Corp Comm	NRC
Off site	State	County, Corp Comm, Media, FEMA
Protective Response		
On site	HNP	Progress Energy
Off site	State, County	Progress Energy, FEMA
Radiological Exposure Control		
On site	HNP	Progress Energy
Off site	State	County, FEMA, Progress Energy
Fire and Rescue		
On site	HNP	Local Fire & Rescue
Off site	County	State

Table 4.0-1

Off-Site Agency Support Summary (continued)

Function (NUREG-0654, II.A)	Primary Responsibility	Support Responsibility
Medical		
On site	HNP	Rescue, Hospital
Off site	County	State
Public Health & Sanitation		
On site	HNP	N/A
Off site	County	State
Social Services		
On site	N/A	N/A
Off site	County	State
Training		
On site	HNP	Progress Energy
Off site	County, State, Progress Energy	State, Progress Energy
Exercises		
On site	HNP	Progress Energy
Off site	State	County, Progress Energy
Reentry		
On site	Progress Energy	HNP, W, Wash. Group
Off site	State	FEMA, County, Progress Energy, DOE

Notes:

NRC - U.S. Nuclear Regulatory Commission

DHHS - U.S. Department of Health & Human Services

N/A - Not applicable

FEMA - U.S. Federal Energy Management Agency

HNP - Harris Nuclear Plant

DOE - U.S. Department of Energy

W - Westinghouse Electric Corporation

Table 4.2-1

Execution of Unusual Event

A. CLASS DESCRIPTION

This class involves events which indicate a potential degradation of the level of safety at a nuclear station.

B. RELEASE POTENTIAL

No releases of radioactive material requiring off-site response or monitoring are expected unless further degradation of safety systems occurs.

C. NOTIFY

Time frames noted below are from the time the emergency is declared.

Required Notifications

- State of North Carolina Emergency Warning Point or EOC (fifteen minutes)
- Chatham County Emergency Warning Point (fifteen minutes)
- Harnett County Emergency Warning Point (fifteen minutes)
- Lee County Emergency Warning point (fifteen minutes)
- Wake County Emergency Warning Point (fifteen minutes)
- On-site Emergency Response Organization (as specified by procedure)
- Off-site Emergency Response Organization (as specified by procedure)
- Nuclear Regulatory Commission Operations Center (one hour)

Additional Notifications as Necessary

- Washington Group
- Westinghouse Electric Corporation
- Institute of Nuclear Power Operations
- American Nuclear Insurers
- Nuclear Electric Insurance Limited (NEIL) (Fire Only)
- Department of Energy, Savannah River Operations Office

D. ACTIVATE

On-site ERO (not required, but may be staffed for support as necessary)

- Technical Support Center
- Operations Support Center

Off-site ERO (not required, but may be staffed for support as necessary)

- Emergency Operations Facility
- Joint Information Center

Request Assistance (if necessary)

- Rex Hospital
- WakeMed Raleigh
- WakeMed Cary
- Fire and Rescue Departments

Table 4.2-2

Execution of Alert

A. CLASS DESCRIPTION

This class describes events which involve actual or potential substantial degradation of the level of safety at a nuclear station.

B. RELEASE POTENTIAL

Off-site doses expected to be limited to small fractions of EPA Protective Action Guideline exposure levels.

C. NOTIFY

Time frames noted below are from the time the emergency is declared.

Required Notifications

- State of North Carolina Emergency Warning Point or EOC (Fifteen minutes)
- Chatham County Emergency Warning Point or EOC (Fifteen minutes)
- Harnett County Emergency Warning Point or EOC (Fifteen minutes)
- Lee County Emergency Warning Point or EOC (Fifteen minutes)
- Wake County Emergency Warning Point or EOC (Fifteen minutes)
- On-site Emergency Response Organization
- Off-site Emergency Response Organization
- Nuclear Regulatory Commission Operations Center (One hour)
- American Nuclear Insurers (Four hours)
- Nuclear Electric Insurance Limited (NEIL) (Fire Only)
- Institute of Nuclear Power Operations (Four hours)

Additional Notifications as Necessary

- Washington Group
- Westinghouse Electric Corporation
- Department of Energy, Savannah River Operations Office

D. ACTIVATE

On-site ERO

- Technical Support Center
- Operations Support Center

Off-site ERO

- Emergency Operations Facility
- Joint Information Center

Request Assistance (if necessary)

- Rex Hospital
- WakeMed Raleigh
- WakeMed Cary
- Fire and Rescue Departments

Table 4.2-3

Execution of Site Area Emergency

A. CLASS DESCRIPTION

This class describes events which involve major failures of plant functions needed for the protection of the public.

B. RELEASE POTENTIAL

Off-site doses not expected to exceed EPA Protective Action Guidelines exposure levels except near site boundary.

C. NOTIFY

Time frames noted below are from the time the emergency is declared.

Required Notifications

- State of North Carolina Emergency Warning Point or EOC (Fifteen minutes)
- Chatham County Emergency Warning Point or EOC (Fifteen minutes)
- Harnett County Emergency Warning Point or EOC (Fifteen minutes)
- Lee County Emergency Warning Point or EOC (Fifteen minutes)
- Wake County Emergency Warning Point or EOC (Fifteen minutes)
- On-site Emergency Response Organization
- Off-site Emergency Response Organization
- Nuclear Regulatory Commission Operations Center (One hour)
- American Nuclear Insurers (Four hours)
- Nuclear Electric Insurance Limited (NEIL) (Fire Only)
- Institute of Nuclear Power Operations (Four hours)

Additional Notifications as Necessary

- Washington Group
- Westinghouse Electric Corporation
- Department of Energy, Savannah River Operations Office

D. ACTIVATE

On-site ERO

- Technical Support Center
- Operations Support Center

Off-site ERO

- Emergency Operations Facility
- Joint Information Center

Request Assistance (if necessary)

- Rex Hospital
- WakeMed Raleigh
- WakeMed Cary
- Fire and Rescue Departments

Table 4.2-4

Execution of General Emergency

A. CLASS DESCRIPTION

This class involves events which involve actual or imminent substantial core degradation or melting with the likelihood of a related release of appreciable quantities of fission products to the environment.

B. RELEASE POTENTIAL

Doses expected to be greater than the upper EPA Protective Action Guideline exposure levels off-site for more than the immediate site area.

C. NOTIFY

Time frames noted below are from the time the emergency is declared.

Required Notifications

- State of North Carolina Emergency Warning Point or EOC (Fifteen minutes)
- Chatham County Emergency Warning Point or EOC (Fifteen minutes)
- Harnett County Emergency Warning Point or EOC (Fifteen minutes)
- Lee County Emergency Warning Point or EOC (Fifteen minutes)
- Wake County Emergency Warning Point or EOC (Fifteen minutes)
- On-site Emergency Response Organization
- Off-site Emergency Response Organization
- Nuclear Regulatory Commission Operations Center (One hour)
- American Nuclear Insurers (Four hours)
- Nuclear Electric Insurance Limited (NEIL) (Fire Only)
- Institute of Nuclear Power Operations (Four hours)

Additional Notifications as Necessary

- Washington Group
- Westinghouse Electric Corporation
- Department of Energy, Savannah River Operations Office

D. ACTIVATE

On-site ERO

- Technical Support Center
- Operations Support Center

Off-site ERO

- Emergency Operations Facility
- Joint Information Center

Request Assistance (if necessary)

- Rex Hospital
- WakeMed Raleigh
- WakeMed Cary
- Fire and Rescue Departments

Table 4.5-2

Protective Action Guides for the Ingestion Pathway

Protective Action Guide (PAG)	Projected Dose Commitment to Whole Body, Bone Marrow or any other Organ (Rem)	Projected Dose Commitment to the Thyroid (Rem)
Preventive PAG[a]	0.5	1.5
Emergency PAG[b]	5.0	15.0

[a] Preventive PAG - The projected dose commitment value at which responsible officials should take protective actions having minimal impact to prevent or reduce the radioactive contamination of human food or animal feed.

[b] Emergency PAG - The projected dose commitment value at which responsible officials should isolate food containing radioactivity to prevent its introduction into commerce and at which the responsible officials should determine whether condemnation or other disposition is appropriate.

From: Federal Register, Vol. 47, No. 205, October 22, 1982, U.S. Food and Drug Administration, Accidental Radioactive Contamination of Human Food and Animal Feeds, Recommendations for State and Local Agencies

Table 4.6-1

HNP Area Radiation and Contamination Limits

A.	Radiation Control Area	Radiation Levels
	1. Radiation Area	5 to ≤100 mrem/hr
	2. High Radiation Area	>100 mrem/hr to ≤ 1000 mrem/hr
	3. Locked High Radiation Area	1000 mrem/hr to ≤ 500 rad/hr
	4. Very High Radiation Area	>500 rad/hr @ 1 meter
	5. Airborne Radioactivity Area	Airborne Conc. ≥ 25% of 10CFR20, App. B, Table 1 Column 3
B.	Contamination Limits	
	1. Skin contamination or personal clothing	< 100 net cpm $\beta\gamma$ with HP210 probe or equivalent sensitivity no measurable α count rate above background
	2. Unconditional release from site for tools and equipment	No detectable α No detectable $\beta\gamma$ above background
	3. Contamination Area	> 1000 dpm/100 cm^2 $\beta\gamma$ smearable and/or > 20 dpm/100 cm^2 α

Figure 4.1-1

Emergency Action Level Flow Path, Side 1

Folded copy of Emergency Action Level Flowpath, Side 1, is contained in the plastic sleeve following this page.

Figure 4.1-2

Emergency Action Level Flow Path, Side 2

Folded copy of Emergency Action Level Flowpath, Side 2 is contained in the plastic sleeve following this page.

5.0 MAINTAINING EMERGENCY PREPAREDNESS

Emergency preparedness at HNP will be maintained by:

- Maintaining planning documents through review, updates, audits, and PNSC review.
- Preparing Emergency Response Organization members for proper response actions through training and retraining.
- Testing the adequacy of emergency preparedness through the use of drills and exercises.
- Inventorying and calibrating emergency equipment, supplies, and instrumentation.
- Ensuring that the public notification and alerting system is tested and maintained.
- Ensuring that the Evacuation Time Estimate is periodically reviewed for adequacy.

Each periodic requirement in this section and elsewhere in the plan and plant emergency procedures shall be performed within the specified time below:

- Annually - At least once per 366 days
- Biennially - At least once per 731 days
- Monthly - At least once per 31 days
- Quarterly - At least once per 92 days
- Semiannually- At least once per 184 days

For the above intervals, a maximum allowable extension which shall not exceed 25% of the specified interval is allowable.

This definition for periodic requirements applies to all intervals in the emergency plan and plant emergency procedures except for the biennial exercise, which is conducted every other calendar year.

5.1 Emergency Plan and Plant Emergency Procedures

5.1.1 Responsibility for the Planning Effort

The HNP Emergency Planning Coordinator is responsible for coordinating on-site and selected off-site radiological emergency response planning. The EP Coordinator is also responsible for performing the following planning functions:

A. Interfacing with federal, state, county, and local planners.

B. Revising and updating the Plan in response to action items identified during appraisals, audits, exercises, drills, and changes in regulations, hardware, and personnel.

C. Coordinating the biennial exercise and the periodic drills.

D. Identifying off-site training needs of state and local emergency support personnel and arranging for training to meet the identified needs.

E. Identifying corrective actions needed following drills and exercises, appraisals, and audits; coordinating responsibility for implementing these actions; coordinating a schedule for completion of these actions; and evaluating the adequacy of the actions taken.

F. Maintaining and negotiating agreements with state and county response agencies, federal assistance agencies, and medical and fire support agencies.

5.1.2 Emergency Plan and Plant Emergency Procedures Update and Changes

The Emergency Planning Coordinator will coordinate the updating of the Plant Emergency Plan, Plant Emergency Procedures, and Supporting Agreements as needed and will review and certify them to be current on an annual basis. The EALs shall be discussed and agreed upon by the State of North Carolina and Wake, Chatham, Harnett, and Lee Counties. The EALs are reviewed by the State of North Carolina and Wake, Chatham, Harnett, and Lee Counties annually. Plan and Procedure revisions shall be reviewed and approved in accordance with an approved plant procedure. Approved changes to the Plan will be distributed in accordance with the distribution list for the plan and procedures in a plant procedure. Revised pages will be indicated in accordance with plant procedures.

Changes to the E-Plan or PEPs shall be forwarded to the NRC within 30 days after approval.

5.1.3 Updating Telephone Listings

Updating of emergency phone listings or personnel listings is not a change to the Plan. Emergency phone listings and personnel listings shall be updated at least quarterly.

5.1.4 Plant Emergency Procedures

A list of emergency preparedness documents that support this Plan is provided in Annex E.

5.1.5 NUREG-0654 Cross-Reference

The criteria for radiological emergency response plans contained in NUREG-0654 are cross-referenced to the applicable sections of this Plan and supporting Plans in Annex D.

5.1.6 Independent Audit

An independent audit of the HNP Emergency Preparedness Program will be conducted by the Nuclear Assessment Section at a frequency specified in 10 CFR 50.54(t). The Nuclear Assessment Section will audit the Plan, Plant Emergency Procedures, Training, Drills and Exercise, facilities and equipment for conformance with 10 CFR 50.47, 10

CFR 50.54, and 10 CFR 50 Appendix E. Written reports of the findings of these audits and reviews will be provided to corporate and plant management. Written notification will be provided to the State of North Carolina and Counties of Chatham, Harnett, Lee, and Wake of the performance of the audit and the availability of the audit records for review at HNP facilities. Each report will address the adequacy of interfaces with state and local governments, of drills and exercises, and of emergency response capabilities and procedures. The reports will be retained for five years. Corrective actions deemed necessary from the audit will be implemented in accordance with Section 5.1.1.E of this Plan and the site Corrective Action Program.

5.2 Emergency Response Organization Training Program

5.2.1 General Requirements

HNP ensures the training of appropriate company personnel to support the Harris Plant Emergency Plan. Initial training and annual retraining is provided for the following categories of personnel:

A. Directors, Coordinators, and Manager in the Emergency Response Organization.

B. Personnel responsible for accident assessment.

C. Radiological monitoring teams and radiological analysis personnel

D. Damage Control Teams

E. First Aid, Search and Rescue, and Fire Brigade Teams

F. Personnel responsible for transmission of emergency information and instruction

G. Personnel responsible for communicating with the media and public

H. Offsite medical support personnel

I. Local support services personnel, including emergency management personnel

J. Police, security and offsite fire-fighting personnel who may be required to assist at the plant

Company personnel not assigned to the site are utilized and trained as members of the program.

Individuals assigned to First Aid Teams will include courses equivalent to the Red Cross Multimedia First Aid Course.

Designated ERO positions are also required to be qualified in the use of appropriate respiratory equipment.

Plant Access Training is provided to all personnel before they have unrestricted access to the Protected Area. This training includes general knowledge of alarms and actions required for non-ERO member during a declared emergency.

Site specific emergency response training shall be offered to offsite emergency organizations and local support services individuals who may be called upon to provide assistance to HNP in the event of an emergency. Training will include site access procedures and the identity (by position and title) of the individual in the HNP ERO who will control their organizations' support activities. Training for hospital personnel, ambulance/rescue, police and fire departments shall also include the procedures for notification, basic radiation protection, and their expected roles.

5.2.2 Conduct of Training

The Emergency Preparedness Unit Supervisor is responsible for the overall content and administration of the emergency plan training program.

EPM-200, ERO Training Program will include knowledge based and/or performance based training and evaluation components.

A. Knowledge based training may be provided in a classroom setting or self directed study modules and document reviews. Examination and/or interviews will be given for initial qualifications to ensure trainee has a good base knowledge of the ERO and their assigned responsibilities.

B. Performance based training and evaluations will be conducted for most ERO members (exceptions are made for pool personnel whose normal job functions closely matches their emergency functions and they are directed by qualified ERO Managers or Coordinators, such as operations, E&RC, maintenance, administrative and security pool personnel). This is done during conduct of exercises, drills or walkthroughs and documented on ERO qualification record forms.

5.2.3 Off-Site Organizations

Training of off-site organizations is described in their respective radiological emergency plans. Additional training is provided by HNP for hospital, rescue, local law enforcement agencies, and fire personnel. Such training will include the procedures for notification, basic radiation protection, and their expected roles. For those Immediate Response Organizations who may enter the site, training by HNP will also include site access procedures and the identity (by position and title) of the individual in the HNP organization who will control the organization's support activities. HNP will assist these off-site organizations in performing their radiological emergency response training as related to HNP as requested.

Training of medical support personnel at the agreement hospitals will include basic training on the nature of radiological emergencies, diagnosis and treatment, and follow-up medical care.

5.2.4 Emergency Planning Coordinator and Staff Training

Training of plant emergency preparedness personnel involved in the planning effort may consist of either of the following:

A. Observing exercises at other plants.

B. Participation in emergency preparedness workshops, seminars and/or courses.

5.2.5 Public Education and Information - HNP

Occupants in the Plume Exposure Pathway Emergency Planning Zone (EPZ) will be provided information prepared by HNP in conjunction with the state and county agencies. This public education and information program is intended to ensure that members of the public are (1) aware of the potential for an occurrence of a radiological emergency; (2) able to recognize a radiological emergency notification; and (3) knowledgeable of the proper, immediate actions to be taken upon notification.

This will be accomplished by (1) distribution of the annual safety information brochure which contains educational information on emergency preparedness, sheltering, sirens, and radiation including telephone numbers of agencies to contact for more information; (2) annual distribution of a school brochure to school bus drivers and students; (3) availability of qualified personnel to address civic, religious, social, and occupational organizations; (4) distribution of news material to the media; and (5) periodic publication of the 10-mile EPZ newsletter, periodic not to exceed annual.

Emergency information will be made available to transient populations through the distribution of safety information brochures to commercial establishments in the 10-mile EPZ. A supply of these brochures is maintained at motels within the 10-mile EPZ.

Lake warning signs are posted at boat ramps, or access roads to boat ramps, at Harris and Jordan Lakes. These signs describe the activities which would be taken to initiate an evacuation of the lake and actions which should be taken in response to the evacuation. The posting of these signs is verified semiannually.

During an actual emergency, provisions will be established through the Joint Information Center to make available and distribute information to the news media. Provisions for a number of telephones which members of the public, who hear rumors, can call for factual information will also be implemented in the JIC when activated.

5.2.6 Public Education - State of North Carolina

The North Carolina Department of Crime Control and Public Safety has overall responsibility for maintaining a continuing disaster preparedness public education program. Such a program, prepared by the state of North Carolina, with the cooperation of the local governments and HNP, is intended to ensure the members of the public are:

A. Aware of the potential threat of a radiological emergency;

B. Able to recognize a radiological emergency notification; and

C. Knowledgeable of the proper immediate actions (return to home, close windows and tune to an Emergency Alert System station) to be taken.

A program of this type includes education on protective actions to be taken if shelter is prescribed and the general procedures to follow if an evacuation is required. It also includes general educational information on radiation and how to learn more about emergency preparedness.

5.3 Drills and Exercises

5.3.1 Drills

Drill scenarios will be varied from year to year such that major elements of the plans and emergency organizations are tested within a 6-year period. One drill shall start between 6 p.m. and 4 a.m. once every 6 years.

EPM-210 prescribes policies and procedures for conducting the following drills:

A. Communication Drills

1) Communication from the Plant to the State warning point, State EOC and local government warning points within the plume exposure pathway Emergency Planning Zone shall be tested monthly. This shall include the transmittal of the information on an Emergency Notification Form.

2) Communications from the Main Control Room, Technical Support Center, and the Emergency Operations Facility to the NRC Headquarters Operations Center shall be tested monthly.

3) Communications between the nuclear facility, state, and local emergency operations centers, and environmental monitoring teams shall be tested annually.

4) Communications between the Main Control Room, the Technical Support Center and the Emergency Operations Facility shall be tested annually.

B. Fire Drills

Fire drills shall be conducted in accordance with Section 13.2 of the FSAR.

C. Medical Emergency Drills

A medical emergency drill involving a simulated contaminated individual with provision for participation by the local support services agencies (that is, ambulance, and off-site medical treatment facility) shall be conducted annually. The off-site portions of the medical drill may be conducted once per calendar year.

D. Environmental Monitoring Drills

Plant environs and radiological monitoring drills (on site and off site) shall be conducted annually. These drills shall include collection and analysis of all sample media (such as water, vegetation, soil, and air), and provisions for communications and record keeping.

E. Radiological Control Drills

1) Radiological Control drills shall be conducted semiannually which involve response to, and analysis of, simulated elevated airborne and liquid samples and direct radiation measurements in the environment.

2) Analysis of in-plant liquid samples with actual elevated radiation levels shall be included in Radiological Control drills annually.

F. Integrated Drills

1) Integrated training drills are conducted between biennial exercises to ensure adequate emergency response capability is maintained. An integrated drill combines principle functional areas of the on-site response which includes the management and coordination of the response, accident assessment, protective action decision-making, and plant system repair and corrective actions. Activation of all of the emergency response facilities is not necessary. Integrated drills may provide the opportunity for training for the staff.

2) At least one integrated drill is to be performed between the biennial exercises and some drills may be unannounced.

3) Critiques and evaluation of drills will be conducted by a qualified individual. The degree of participation by outside agencies in conducting these drills may vary and their action may actually be simulated.

5.3.2 Exercises

An exercise is an event that tests the integrated capability of major response organizations. Exercises shall test the adequacy of timing and content of implementing procedures and methods, test emergency equipment and communications networks, and ensure that emergency organization personnel are familiar with their duties. Procedures for the conduct of exercises are described in EPM-210. An emergency exercise involving on-site participation will be conducted at least once every other calendar year.

Partial participation exercises involving off-site agencies will be conducted at least once every other calendar year (IE Information Notice 85-55). Partial participation means appropriate off-site authorities shall actively take part in the exercise sufficient to test direction and control functions to include protective action decision making related to emergency action levels and communication capabilities among affected state and local authorities and HNP.

Every sixth year the exercise will include the full participation of the State. These full participation exercises will include appropriate off-site local and state authorities and HNP personnel physically and actively taking part in testing the integrated capability to adequately assess and respond to an accident at the plant. "Full participation" includes testing the major observable portions of the on-site and off-site emergency plans and mobilization of state, local, and HNP personnel and other resources in sufficient numbers to verify the capability to respond to the accident scenario.

Exercises involving off-site agencies will simulate an emergency that results in an off-site radiological release.

The biennial exercises should be conducted during different seasons of the year.

Advance knowledge of the scenarios will be kept to a minimum to allow "free-play" decision making and to ensure a realistic participation by those involved.

Each biennial exercise plan should include the following:

- The basic objective(s) of the exercise.
- The date(s), time period, place(s), and participating organizations.
- The simulated events.
- A time schedule of real and simulated initiating events.
- A narrative summary describing the conduct of the exercise to include such things as simulated casualties, off-site fire department assistance, rescue of personnel, use of protective clothing, deployment of radiological monitoring teams, and public information activities.
- Arrangements for qualified Evaluators and Controllers.
- Critique and Evaluation Reports.

Prior to the exercise, an exercise plan will be distributed to the exercise controllers and evaluators that will include a list of performance objectives, the scenario, and a description of the expected responses.

Qualified observers from Progress Energy, federal, state, or local governments will observe and critique each biennial exercise in which the state and counties participate. A critique will be scheduled at the conclusion of each exercise to evaluate the ability of all participating organizations to respond. The critique will be held as soon as possible after the exercise. A formal written evaluation of the exercise will be prepared by the Emergency Planning Coordinator following the critique.

The Plant Emergency Planning Coordinator or assigned designee will determine those critique items that require corrective actions. Plant administrative controls will be utilized to ensure that corrective actions are implemented.

5.4 Maintenance and Inventory of Emergency Equipment and Supplies

5.4.1 Emergency Equipment and Supplies

A resource list of emergency equipment and supplies to be inventoried for the TSC, OSC, EOF and JIC is referenced in the emergency program maintenance procedures. This listing provides information on location and availability of emergency equipment and supplies.

An inventory of all emergency equipment and supplies is held on a quarterly basis and after use in an emergency or drill. During this inventory, radiation monitoring equipment is to be checked to verify that required calibration and location are in accordance with the inventory lists.

5.4.2 Medical Equipment and Supplies

Respiratory protection equipment, maintained for emergency purposes, is to be inspected and inventoried monthly.

At least twice each year and after use in an emergency or drill, emergency medical equipment and supplies located in the First Aid Station/Kits throughout the plant are to be inventoried, inspected, replaced, and replenished and/or resterilized as necessary. First Aid Team personnel inspect and inventory emergency medical supplies required to support a medical emergency at the plant, and plant personnel use the checklist in the applicable procedures to inspect other emergency items located in the First Aid Station/Kits.

5.4.3 Meteorological Instrumentation

Calibration of and channel checks on meteorological instrumentation are performed in accordance with PLP-114.

5.5 Testing and Maintenance of the Public Notification and Alerting System

5.5.1 General Description

The Public Notification and Alerting System consist of sirens located throughout the 10-mile EPZ and Tone Alert Radios distributed to households within a 5-mile radius of the HNP.

5.5.2 Siren System Testing

The sirens are tested as follows:

A. A silent test should be performed every two weeks.

B. A growl test should be performed at least once per calendar quarter.

C. A full-scale test of the system shall be conducted annually.

5.5.3 Siren System Maintenance

Maintenance of the Siren System is an ongoing process and is performed as needed based on the results of each test of the system. Records of siren maintenance are reviewed by HNP Emergency Preparedness.

5.5.4 Siren System Operability

A. The loss of all sirens within one county or the loss of 20% of the total number of sirens requires notification of the NRC within eight hours.

B. The annual operability of the siren system is considered acceptable when averages of at least 90% of the siren tests for a calendar year are successful.

5.5.5 Tone Alert Radio Distribution

Tone Alert Radios are distributed to households within a 5-mile radius of the plant. The radios are tested prior to distribution and provided to each residence by a trained HNP representative.

5.5.6 Tone Alert Radio Maintenance

A. Residences receiving a Tone Alert radio are provided with information on who to contact if the radio malfunctions.

B. Progress Energy annually distributes a new battery to each residence possessing a Tone Alert Radio.

C. Progress Energy annually distributes guidance to each residence on the purpose and operation of the Tone Alert radio.

5.5.7 Tone Alert Radio System Testing

A. The Tone Alert Radio System is tested annually.

B. An independent contractor is retained by Progress Energy to develop and conduct a survey to assess the effectiveness of the Tone Alert Radio System.

5.5.8 Tone Alert Radio System Operability

A. The Tone Alert Radio System is considered effective if at least 66% of those households surveyed received the test signal during the annual test.

B. The loss of either of the two National Weather Service Tone Alert Radio signal transmitters requires notification of the NRC within one hour.

5.6 Evacuation Time Estimate

The HNP Evacuation Time Estimate (ETE) (See Table 1.8-2) will be considered valid until the population within the 10-mile EPZ has increased by greater than 10% since the last ETE was determined. If the population is found to have increased by greater than 10% then a revised ETE will be established using appropriate guidance in NUREG/CR-4831, "State of the Art in Evacuation Time Estimate Studies for Nuclear Power Plants."

An ETE update should be performed every five years to ensure the adequacy of other evacuation assumptions.

6.0 RECOVERY

6.1 Recovery Planning

Recovery is defined as those steps taken to return the plant to its pre-accident condition. The overall goals of the recovery effort are to assess the in-plant consequences of the emergency and perform cleanup and repair operations. This effort includes the utilization of Progress Energy Corporate resources and interfacing with outside agencies. All recovery actions will be pre-planned in order to minimize radiation exposure or other hazards to recovery personnel.

Recovery from an emergency situation is guided by the following principles:

A. The protection of the public health and safety is the foremost consideration in formulating recovery plans.

B. Public officials are kept informed of recovery plans so that they can properly carry out their responsibilities to the public.

C. Periodic briefings of media representatives are held to inform the public of recovery plans and progress made.

D. Periodic status reports are given to company employees at other locations and to government and industry representatives.

E. The radiation doses to employees and other radiation workers are kept As Low As Reasonably Achievable (ALARA).

F. Necessary adjustments in the size and makeup of the Recovery Manager's staff are made as deemed necessary by the Recovery Manager.

The recovery organization may begin to develop plans for recovery of the facility while the emergency is still in progress. However, these efforts will not be permitted to interfere with or detract from the efforts to control the emergency situation. During the emergency phases of the incident, the recovery organization resources will be available to assist and provide support for the Site Emergency Coordinator.

6.2 Recovery Plan Activation

The Site Emergency Coordinator, with concurrence from the Emergency Response Manager, has the responsibility for determining when an emergency situation is stable and the plant is ready to enter the recovery phase. Prior to terminating an emergency and entering the recovery phase, the following conditions are considered:

A. Do conditions still meet an Emergency Action Level? If so, does it appear unlikely that conditions will deteriorate?

B. Radioactive releases are under control and are no longer in excess of Technical Specification limits.

C. The radioactive plume has dissipated and plume tracking is no longer required. The only environmental assessment activities in progress are those necessary to assess the extent of deposition resulting from passage of the plume.

D. In-plant radiation levels are stable or decreasing, and acceptable, given the plant conditions.

E. The potential for uncontrolled radioactive release is acceptably low.

F. The reactor is in a stable shutdown condition and long-term core cooling is available.

G. Containment pressure in within Technical Specification limits.

H. Any fire, flood, earthquake or similar emergency condition no longer exists.

I. All required notifications have been made.

J. Discussions have been held with Federal, State and local agencies and agreement has been reached to terminate the emergency.

K. At an Alert or higher classification, the Emergency Response Organization is in place and emergency facilities are activated.

It is not necessary that all conditions listed above be met; however, all items must be considered prior to entering the recovery phase. For example, it is possible after a severe accident that some conditions remain which exceed and Emergency Action Level, but entry into the recovery phase is appropriate.

Decisions to relax protective actions for the public will be made in accordance with the North Carolina Radiological Emergency Plan. The Recovery Manager will provide information to the appropriate state agencies to facilitate the decision.

Once the decision is made to enter the recovery phase, the extent of the staffing required for the HNP Recovery Organization is determined.

A. For events of a minor nature, (that is, for UNUSUAL EVENT classifications) the normal on shift organization is normally adequate to perform necessary recovery actions.

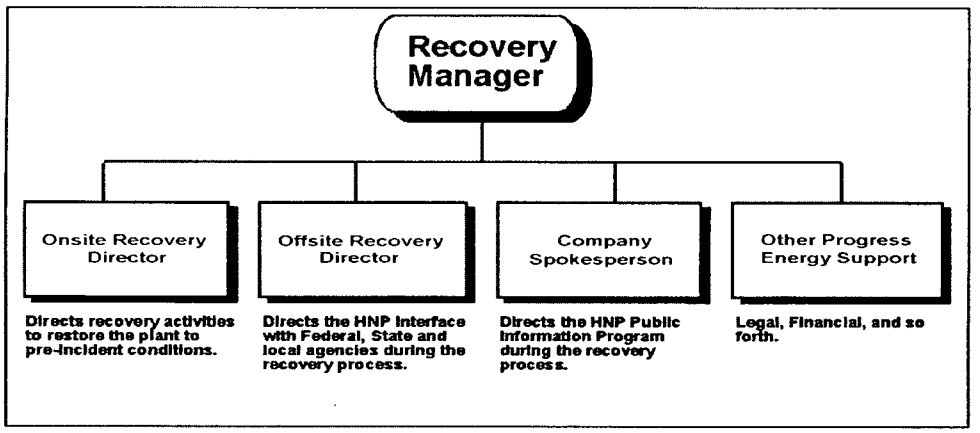
B. For events where damage to the plant has been significant, but no offsite releases have occurred and/or protective actions were not performed, (that is, for Alert classifications) the HNP Emergency Response Organization, or portions thereof, should be adequate to perform the recovery tasks prior to returning to the normal plant organization.

C. For events involving major damage to systems required to maintain safe shutdown of the plant and offsite radioactive releases have occurred, (that is, for Site Area Emergency or General Emergency classifications) the Recovery Organization is put in place.

When the decision is made to enter the recovery phase, all members of the HNP Emergency Response Organization are informed of the change. All appropriate personnel are instructed of the Recovery Organization and their responsibilities to the recovery effort. Notification of off-site organizations that the Recovery Organization is to be activated will be initiated by the Emergency Response Manager and will follow plant emergency notification procedures summarized in Section 4.2 of the Plan (except that the notification message will state that the Recovery Plan has been initiated, will list the new positions of the Recovery Organization, and the notification time limits will not be applicable).

6.3 Recovery Organization

The specific members of the Recovery Organization are selected based on the sequence of events that preceded the recovery activities as well as the requirements of the recovery phase. The basic framework of the Recovery Organization is as follows:



This organization may be modified during the recovery process to better respond to the conditions at the plant.

The state will be the lead organization for off-site recovery operations. The state's recovery organization will be in accordance with the North Carolina Emergency Response Plan.

6.4 Assignment of Responsibilities

6.4.1 Recovery Manager

The Recovery Manager is charged with the responsibility for directing the activities of the HNP Recovery Organization. These responsibilities include:

A. Ensuring that sufficient personnel from Progress Energy and other organizations are available to support recovery.

B. Directing the development of a recovery plan and procedures.

Ensuring that adequate engineering activities to restore the plant are properly reviewed and approved.

C. Deactivating any of the HNP Emergency Response Organization which was retained to aid in recovery, in the appropriate manner.

D. Coordinating the integration of available Federal and State assistance into onsite recovery activities.

E. Coordinating the integration of Progress Energy support with Federal, State and local authorities into required offsite recovery activities.

F. Approving information released by the public information organization which pertains to the emergency or the recovery phase of the accident.

G. Determining when the recovery phase is terminated.

H. The Vice President-HNP or a designated alternate is the Recovery Manager.

6.4.2 Onsite Recovery Director

The Onsite Recovery Director reports to the Recovery Manager and is responsible for:

A. Coordinating the development and implementation of the recovery plan and procedures.

B. Directing all onsite activities in support of the recovery of HNP.

C. Designating other Progress Energy recovery positions required in support of onsite recovery activities.

The Onsite Recovery Director position will normally be filled by the General Manager-Harris Plant or designee.

6.4.3 Offsite Recovery Director

The Offsite Recovery Director reports to the Recovery Manager and is responsible for:

A. Providing liaison with offsite agencies and coordinating HNP assistance for offsite recovery activities.

B. Coordinating HNP ingestion exposure pathway EPZ sampling activities.

C. Developing a radiological release report.

D. Designating other HNP recovery positions required in support of offsite recovery activities.

The Offsite Recovery Director position will normally be filled by the Manager Plant Support Services or designee.

6.4.4 Company Spokesperson

The Company Spokesperson reports to the Recovery Manager and is responsible for:

Functioning as the official spokesperson to the press for Progress Energy on all matters relating to the accident or recovery.

A. Coordinating non-Progress Energy public information groups (Federal, State, County, and so forth).

B. Coordinating media monitoring and rumor control.

C. Determining what public information portions of the HNP Emergency Response Organization will remain activated.

The Company Spokesperson position will normally be filled by the Manager Communications-HNP or designee.

6.4.5 The Remainder of the HNP Recovery Organization

The remainder of the HNP Recovery Organization is established and an initial recovery plan developed at the end of the emergency phase or just after entry into the recovery phase. Consideration is given to recovery activity needs and use of the normal HNP organizations. Individual recovery supervisor may be designated in any or all of the following areas:

A. Maintenance

B. Engineering/Technical Support

C. Radiation Protection

D. Operations

E. Chemistry

F. Security

G. Quality Assurance

H. Training

I. Special Offsite Areas (Community Representatives, Environmental Samples, Investigations, and so forth)

6.5 Reentry Planning

The plans and procedures for area reentry will be developed at the time and will consider existing as well as potential conditions inside affected areas.

Prior to reentry, the Recovery Manager and staff shall:

A. Review all available radiation survey data and determine plant areas potentially affected by radiation exposure and contamination.

B. Review the radiation exposure records of personnel participating in the recovery operation and determine the need for additional personnel.

C. Review the adequacy of the radiation sampling and survey instrumentation to be used by the team (type, ranges, number, calibration, and so forth).

D. Review protective clothing, dosimetry, and respiratory protection needs.

E. Ensure appropriate communications are available.

F. Ensure all team members are briefed concerning areas to be entered, anticipated radiation levels, access control procedures, and methods and procedures that will be employed during the entry. The initial entry into the affected area should encompass the following actions:

- Conduct a comprehensive radiation survey of the plant facilities and define all radiological problem areas.
- Isolate and post with appropriate warning signs all radiation and contamination areas.
- Identify potential hazards associated with the recovery operation.

6.6 Total Population Exposure Estimates

The Radiological Control Manager will periodically update the estimate of total population exposure. The estimate will be determined from data collected in cooperation with the State.

The North Carolina Radiation Protection Section (RPS), Department of Environment, Health and Natural Resources will be the lead state agency in the collection and analysis of radiation monitoring reports and of environmental air, foliage, food, and water samples. The RPS will be assisted by qualified personnel from HNP.

Total population exposure will be periodically determined through a variety of procedures including:

A. Examination of prepositioned TLDs.

B. Bioassay

C. Estimates based on release rates and meteorology.

D. Estimates based on environmental monitoring of food, water, and ambient dose rates.

6.7 Recovery Termination and Reporting Requirements

Responsibility for providing a closeout verbal summary and written summary to off-site authorities after the accident is the responsibility of the General Manager - Harris Plant. These summaries should be simple and in sufficient detail only to define that the accident situation is ended.

Reports to the NRC are in accordance with 10CFR50.72, 10CFR20, Subpart M, and the HNP Technical Specifications, Section 6.9.

7.0 REFERENCES

A. HNP Plant Operating Manual.

B. Progress Energy Radiation Control and Protection Manual.

C. Final Safety Analysis Report (FSAR), Progress Energy, Shearon Harris Nuclear Power Plant.

D. EPA 400-R-92-001, "Manual of Protective Action Guides and Protective Actions for Nuclear Incidents," U.S. Environmental Protection Agency.

E. EPPOS No. 1, "Emergency Preparedness Position (EPPOS) on Acceptable Deviations from Appendix 1 of NUREG-0654 Based Upon the Staff's Regulatory Analysis of NUMARC/NESP-007, 'Methodology for Development of Emergency Action Levels'", June 5, 1995.

F. EPPOS No. 2, "Emergency Preparedness Position (EPPOS) on Timeliness of Classification of Emergency Conditions", August 17, 1995.

G. EPPOS No. 3, "Emergency Preparedness Position (EPPOS) on Requirement for Onshift Dose Assessment Capability", November 8, 1995.

H. NUREG-0654/FEMA-REP-1, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants, October 1980, Revision 1.

I. NUREG-0737, Clarification of TMI Action Plan Requirements, dated October 1980.

J. NUREG-0737, Supplement 1, Requirements for Emergency Response Capability, December 1982.

K. NUREG-0696, Functional Criteria for Emergency Response Facilities, Final Report, February 1981.

L. Title 10, Code of Federal Regulations; Part 20, Standards for Protection Against Radiation and Part 50, Licensing of Production and Utilization Facilities

M. Federal Register, Vol. 43, No. 242, December 15, 1978, U.S. Food and Drug Administration, Accidental Radioactive Contamination of Human Food and Animal Feeds.

N. Evacuation Time Estimates for the Plume Exposure Pathway Emergency Planning Zone, Shearon Harris Nuclear Power Plant, January 2002.

O. RTM-92.

P. NRC Bulletin 2005-02, Emergency Preparedness and Response Actions for Security-Based Events.

ANNEX A

LETTERS OF AGREEMENT

This Annex contains a list of written agreements between Progress Energy and other organizations that may be required to provide support to the Harris Nuclear Plant in the event of an on-site radiological emergency. Copies of the original agreements are kept on file by HNP Emergency Preparedness or Progress Energy Contract Services.

Agreement Organization

1. Apex Volunteer Fire Department
2. Town of Holly Springs Dept. Of Public Safety Division of Municipal Fire Services
3. Apex Rescue Squad, Inc.
4. Rex Hospital
5. WakeMed Raleigh
6. WakeMed Cary
7. Douglas I. Hammer, M.D.
8. Robert A. Brownstein, M.D.
9. Institute of Nuclear Power Operations
10. National Weather Service
11. State of North Carolina - supporting emergency plan - see Annex G
12. Chatham County - supporting emergency plan - see Annex G
13. Harnett County - supporting emergency plan - see Annex G
14. Lee County - supporting emergency plan - see Annex G
15. Wake County - supporting emergency plan - see Annex G
16. Atlantic Group
17. Washington Group
18. Murray and Trettel - on demand services
19. Westinghouse Electric Corporation
20. Weather Services International (WSI) - on demand services

These agreements are maintained current through annual reconfirmation, where required, or through personal verification of current applicability where reconfirmation is not required. A copy of the EP Supervisor's annual certification that the agreements are applicable and have been reconfirmed when necessary is kept on file by HNP Emergency Preparedness.

ANNEX B

Technical Basis Of Emergency Dose Projection Program

The technical basis for the dose projection program is located in NUREG-1741 RASCAL 3.0: Description of Models and Methods.

ANNEX C

Glossary Of Terms

Accident Assessment - Accident assessment consists of a variety of actions taken to determine the nature, effects, and severity of an accident and includes evaluation of reactor operator status reports, damage assessment reports, meteorological observations, seismic observations, fire reports, radiological dose projections, in-plant radiological monitoring, and environmental monitoring.

Activate - To formally put on active duty with the necessary personnel and equipment to carry out the function required, such as to activate the Technical Support Center (TSC) or the Emergency Operations Facility (EOF).

Alerting/Warning, Public - The process of signaling the public, as with sirens, to turn on their TVs or radios and listen for information or instructions broadcast by state or local government authorities on the Emergency Alert System (EAS).

Assessment Actions - Those actions taken during or after an accident to obtain and process information which is necessary to make decisions to implement specific emergency measures.

Command and Control - Exercising the authority to coordinate and utilize an organization's resources to respond to an emergency condition.

Committed Dose Equivalent (CDE) - The Dose Equivalent to organs or tissues of reference that will be received from an intake of radioactive material by an individual during the 50-year period following the intake.

Corrective Action - Those emergency measures taken to lessen or terminate an emergency situation at or near the source of the problem, to prevent an uncontrolled release of radioactive material, or to reduce the magnitude of a release. Corrective action includes equipment repair or shutdown, installation of emergency structures, fire fighting, repair, and damage control.

County(ies) - When used in the context of the HNP 10-mile EPZ means Chatham, Lee, Harnett, and/or Wake County(ies).

Damage Assessment - Estimates and descriptions of the nature and extent of damages resulting from an emergency or disaster; of actions that can be taken to prevent or mitigate further damage; and of assistance required in response and recovery efforts based on actual observations by qualified engineers and inspectors.

Damage Control - The process of preventing further damage to occur and preventing the increase in severity of the accident.

Decontamination - The reduction or removal of contaminated radioactive material from a structure, area, material, object, or person. Decontamination may be accomplished by (1) treating the surface so as to remove or decrease the contamination, (2) letting the material stand so that the radioactivity is decreased as a result of natural decay, and (3) covering the contamination.

ANNEX C

Glossary Of Terms

DEM - An abbreviation standing for North Carolina Division of Emergency Management. DEM is the State agency responsible for preparing and maintaining a State Radiological Emergency Response Plan and for assembling and dispatching a State Emergency Response Team (SERT) to the scene of an emergency.

Dose Projection - The calculated estimate of a radiation dose to individuals at a given location (normally off site), determined from the source term/quantity of radioactive material (Q) released, and the appropriate meteorological dispersion parameters (χ/Q).

Dose Rate - The amount of ionizing (or nuclear) radiation to which an individual would be exposed per unit of time. As it would apply to dose rate to a person, it is usually expressed as Rem per hour or in submultiples of this unit, such as millirem per hour. The dose rate is commonly used to indicate the level of radioactivity in a contaminated area.

Dosimeter - An instrument such as a thermoluminescent dosimeter (TLD), self-reading pocket dosimeter (SRPD), or electronic dosimeter (ED) for measuring, registering, or evaluating total accumulated dose or exposure to ionizing radiation.

Drill - A supervised instruction period aimed at testing, developing, and maintaining skills in a particular operation.

Early Phase - The period at the beginning of a nuclear incident when immediate decisions for effective use of protective actions are required and must be based primarily on predictions of radiological conditions in the environment. This phase may last from hours to days. For the purposes of dose projections it is assumed to last four days.

Emergency Action Levels (EALs) - Plant conditions used to determine the existence of an emergency and to classify its severity. The conditions include specific instrument readings, alarms, and observations that in combination indicate that an emergency initiating event has occurred and therefore an appropriate class of emergency should be declared. EALs cover a broad range of events such as radioactive releases to the environment, loss of all on-site and off-site power, security threats, fire, and strikes of operating employees.

Emergency Alert System (EAS) - A network of broadcast stations and interconnecting facilities which have been authorized by the Federal Communications Commission to operate in a controlled manner during a war, state of public peril or disaster, or other national emergency - as provided by the Emergency Alert System Plan. In the event of a nuclear reactor accident, instructions/notifications to the public on conditions or protective actions would be broadcast by state or local government authorities on the EAS.

Emergency Operating Procedures (EOPs) - EOPs are step-by-step procedures for direct actions taken by licensed reactor operators to mitigate and/or correct an off normal plant condition through the control of plant systems.

ANNEX C

Glossary Of Terms

Emergency Operations Center (EOC) - A facility designed and equipped for effective coordination and control of emergency operations carried out within an organization's jurisdiction. The site from which civil government officials (Municipal, County, State, and Federal) exercise direction and control in a civil defense emergency.

Emergency Operations Facility (EOF) - The EOF is an HNP facility near the plant that is provided for the management of overall HNP emergency response in the event of a nuclear accident at the plant. Upon activation of the EOF, it assumes for the Technical Support Center (TSC) the function of providing support to the state on off-site radiological and environmental assessments, coordination with Federal, State, and Local Government officials on recommendations for public protective actions and direction of recovery operations.

Emergency Planning Zones (EPZ) - A generic area defined about a nuclear plant to facilitate emergency planning off site. The plume exposure EPZ is described as an area with approximately a 10-mile radius and the ingestion exposure EPZ is described as an area with approximately a 50-mile radius, both of which are centered at the plant site.

Emergency Preparedness - A state of readiness that provides reasonable assurance that adequate protective measures can and will be taken upon implementation of the emergency plan in the event of a radiological emergency.

Evacuation - The urgent removal of people from an area to avoid or reduce high-level, short-term exposure usually from the plume or from deposited activity.

Evacuation, Exclusion Area - The evacuation of nonessential personnel from the Exclusion Area.

Evacuation, Local - The evacuation of personnel from a particular area, such as a room or building.

Evacuation, Site - The evacuation of nonessential personnel from the plant site.

Exercise - An event that tests the integrated capability of a major portion of the basic elements existing within emergency preparedness plans and organizations.

Exclusion Area - An Exclusion Area is an area specified for the purpose of reactor site evaluation in accordance with 10CFR100. It is an area of such size that an individual located at any point on its boundary for two hours immediately following onset of the postulated release would not receive a total radiation dose to the whole body in excess of 25 Rem or a total radiation dose of 300 Rem to the thyroid from iodine exposure. The exclusion area around HNP is Progress Energy-owned property with a radius of approximately 7000 feet.

Fission Product Barrier - The fuel cladding, reactor coolant system boundary, or the containment boundary.

ANNEX C

Glossary Of Terms

Fission Product Barrier Status -

a. Breached - The fission product barrier is incapable of sufficiently retaining radioactive materials to protect the public.

b. Jeopardy - Conditions exist that are likely to result in fission product barrier breach, but the barrier is intact at the present time.

c. Intact - The fission product barrier retains the ability to protect the public from a harmful release of radioactive materials.

Health Physics Network (HPN) Line - In the event of a Site Area Emergency, the NRC HPN line will be activated by the NRC Operations center in Bethesda, Maryland. This phone is part of a network that includes the NRC Regional Office and the NRC Operations Headquarters in Bethesda, Maryland. This system is dedicated to the transmittal of radiological information by plant personnel to NRC Operations Center and the Regional office. HPN phones are located in the TSC and EOF.

Ingestion Exposure Pathway - The potential pathway of radioactive materials to the public through consumption of radiologically contaminated water and foods such as milk or fresh vegetables. Around a nuclear power plant this is usually described in connection with the 50-mile radius Emergency Planning Zone (50-mile EPZ).

Intermediate Phase - The period beginning after the source and releases have been brought under control and reliable environmental measurements are available for use as a basis for decisions on additional protective actions.

Joint Information Center (JIC) - An Emergency Facility activated by Progress Energy and staffed by Progress Energy, State, and County Public Information personnel. This facility serves as the single point of contact for the media and public to obtain information about an emergency.

Late Phase - The period beginning when recovery action designed to reduce radiation levels in the environment to acceptable levels for unrestricted use are commenced and ending when all recovery actions have been completed. This period may extend from months to years (also referred to as the recovery phase).

Main Control Room - The operations center of a nuclear power plant from which the plant can be monitored and controlled.

Monitoring, Environmental - The use of radiological instruments or sample collecting devices to measure and assess background radiation levels and/or the extent and magnitude of radiological contamination in the environment around the plant. This may be done in various stages such as pre-operational, operational, emergency, and post operational.

Monitoring, Personnel - The determination of the degree of radioactive contamination on individuals, using standard survey meters, and/or the determination of dosage received by means of dosimetry devices.

ANNEX C

Glossary Of Terms

Notification, Public - Public notification means to communicate instructions on the nature of an incident that prompted the public alerting/warning and on protective or precautionary actions that should be taken by the recipients of the alert. A state and local government process for providing information promptly to the public over radio and TV at the time of activating the alerting (warning) signal (sirens). Initial notifications of the public might include instructions to stay inside, close windows, and doors, and listen to radio and TV for further instructions. Commercial broadcast messages are the primary means for advising the general public of the conditions of any nuclear accident. (See Emergency Alert System.)

NRC Emergency Telecommunications System (ETS) - The NRC Emergency Telecommunications System hot line is a dedicated telephone system that connects the plant with NRC headquarters in Bethesda, Maryland. It is directly used for reporting emergency conditions to NRC personnel. The system has seven essential telecommunications functions; Emergency Telecommunications System (ETS), Health Physics Network (HPN), Reactor Safety Counterpart Link (RSCL), Protective Measures Counterpart Link (PMCL), Management Counterpart Link (MCL), Operations Center Local Area Network (LAN) line, (OCL), and the Emergency Response Data System (ERDS).

Off-Site - The area outside of an approximate 2500-foot radius from the plant centerline, exclusive of the area cleared for plant construction.

On-Site - The area inside of an approximate 2500-foot radius from the plant centerline, inclusive of the area cleared for plant construction, and including all permanent and temporary buildings, and the parking lots.

Operations Support Center (OSC) - An emergency response facility at the Plant to which support personnel report and stand by for deployment in an emergency situation.

Plume Exposure Pathway - The potential pathway of radioactive materials to the public through (a) whole body external exposure from the plume and from deposited materials, and (b) inhalation of radioactive materials.

Population-at-Risk - Those persons for whom protective actions are being or would be taken. In the 10-mile EPZ the population-at-risk consists of resident population, transient population, special facility population, and industrial population.

Potassium Iodide - (Symbol KI) A chemical compound that readily enters the thyroid gland when ingested. If taken in a sufficient quantity prior to exposure to radioactive iodine, it can prevent the thyroid from absorbing any of the potentially harmful radioactive iodine-131.

Glossary Of Terms

Procedure, Plant Emergency (PEP) - Plant emergency procedures implement the HNP Emergency Plan and are published in Volume 2, Part 5 of the Plant Operations Manual. PEPs define the specific, step-by-step actions to be followed by the emergency organization in the process of recognizing and assessing an emergency condition, and mitigating the condition through the use of corrective and protective actions. PEPs do not include those actions taken by licensed control operators to directly control plant systems (see Emergency Instructions).

Projected Dose - An estimate of the potential radiation dose which affected population groups could receive.

Protected Area - An area of the plant site encompassed by physical barriers to which access is controlled.

Protection Factor (PF) - The relation between the amounts of radiation which would be received by a completely unprotected person compared to the amount which would be received by a protected person such as a person in a shielded area. PF = Unshielded dose rate ÷ shielded dose rate.

Protective Action - Sometimes referred to as protective measure. An activity conducted in response to an incident or potential incident to avoid or reduce radiation dose to members of the public.

Protective Action Guide (PAG) - The projected dose to reference man or other defined individual from an accidental release of radioactive material at which a specific protective action to reduce or avoid that dose is warranted.

Recovery - The process of reducing radiation exposure rates and concentrations of radioactive material in the environment to levels acceptable for unconditional occupancy or use.

Release - Escape of radioactive materials into the uncontrolled environment.

Restricted Area -Any area, access to which is controlled by Progress Energy Company for purposes of protection of individuals from exposure to radiation and radioactive materials.

Safety Analysis Report, Final (FSAR) - The FSAR is a comprehensive report that a utility is required to submit to the NRC as a prerequisite and as part of the application for an operating license for a nuclear power plant. The multivolume report contains detailed information on the plant's design and operation, with emphasis on safety-related matters.

ANNEX C

Glossary Of Terms

Safety-related - As used in this plan and in Plant Emergency Procedures when describing areas, equipment, systems or components, safety-related means:

1. Forming a part of the Reactor Coolant System pressure boundary, or

2. Used to mitigate the consequences of an abnormal condition, or

3. Necessary to achieve or maintain safe shutdown of the plant.

SERT - State Emergency Response Team (North Carolina). (See also DEM).

Shelter - A habitable structure or space used to protect its occupants from radiation exposure. The radiation protection factor (PF) of the shelter will vary as a function of the density of structural materials located between its occupants and the source of radiation.

Shielding - Any material or barrier that attenuates (stops or reduces the intensity of) radiation.

Source Term - Radioisotope inventory of the reactor core, or amount of radioisotope released to the environment, often as a function of time.

State - The State of North Carolina.

Technical Support Center (TSC) - A center outside of the Main Control Room in which information is supplied on the status of the plant to those individuals who are knowledgeable or responsible for engineering and management support of reactor operations in the event of an emergency, and to those persons who are responsible for management of the on-site emergency response.

Total Effective Dose Equivalent (TEDE) - The sum of external and internal ionizing radiation exposure.

Unrestricted Area - Any area to which access is not controlled by the licensee for protecting individuals from exposure to radiation and radioactive materials, and any area used for residential quarters.

ANNEX D

NUREG-0654 REV. 1 Cross-Reference

NUREG-0654, Criterion Paragraph		EP Section Number
A. Assignment of Responsibility		
A.1.a	Identify response organizations	Annex G
A.1.b	Concept of operations	2.0, 4.1, Table 4.0-1
A.1.c	Illustrate interrelationships	Figures G-1, G-2, Table 2.2 -1, Figure 2.2 -1, Figure 2.4-1
A.1.d	Individual responsible for emergency response	2.3, 2.4.1.B, 2.4.2.A, 2.4.4.A
A.1.e	Provision for 24 hours per day response	2.2, Table 2.2-1
A.3	Agreements	Annex A, Annex G
A.4	Individual responsible for resources	2.4.1.B, 2.4.2.A, 2.4.4.A
B. On-site Emergency Organization		
B.1	Plant Emergency Organization	2.0, Table 2.2-1, Figure 2.2-1, Figure 2.4-1
B.2	Assignment of Site Emergency Coordinator	2.4.1.B, 2.3, 2.4.2.A, 2.4.4.A
B.3	Line of succession	2.3, 2.4.1.B, 2.4.2.A, 2.4.4.A
B.4	Responsibilities	2.3, 2.4.1.B, 2.4.2.A, 2.4.4.A
B.5	Emergency organization and assignments	2.2, 2.4, Table 2.2-1
B.6	Interfaces - Plant, State, Local, Corp.	Figures 2.2-1, 2.4-1, Table 4.0-1, Annex G
B.7	Corporate Emergency Organization	2.2
B.7.a	Logistics support for emergency personnel	2.4.4.F
B.7.b	Technical Support - planning reentry, recovery	2.2, 6.4.5.
B.7.c	Management to Government interface	2.4.1.B, 2.4.4.A, Figures G-1 and G-2

NUREG-0654 REV. 1 Cross-Reference

NUREG-0654, Criterion Paragraph		EP Section Number
B.7.d	Corporate news media coordination	2.4.4.E, 2.4.5
B.8	Contractor and private assistant	Annex G
B.9	Local agency services	Annexes A & G
C. Emergency Response Support and Resources		
C.1.a	Titles authorized to request federal assistance	2.3.E
C.1.b	Specific federal resources expected and delivery time.	Annex G
C.1.c	Airports, EOC, telephones, radios, available to assist federals	3.7, 3.8
C.2.b	Licensee representative to principal government EOCs	2.4.4.X
C.3	Description of available radiological labs	3.9.7
C.4	Nuclear and other facilities or organizations	2.5, Annex G
D. Emergency Classification System		
D.1	Emergency classification system and EALS, parameter values and equipment status.	4.1, Figure 4.1-1, Figure 4.1-2
D.2	Initiating conditions and FSAR accidents.	4.1, Figure 4.1-1, Figure 4.1-2
E. Notification Methods and Procedures		
E.1	Establish procedures for notification of response organization and verification.	4.2
E.2	Establish procedures for alerting, notifying, and mobilizing response personnel.	4.2, 4.3, Table 4.2-1-4
E.3	Establish content of message.	4.2
E.4	Make provision for follow-up message.	4.2
E.6	Provide for alerting and notifying public.	4.5.4, Annex H

NUREG-0654 REV. 1 Cross-Reference

	NUREG-0654, Criterion Paragraph	EP Section Number
E.7	Provide narrative for public messages on protective actions.	4.5.4
F. Emergency Communications		
F.1	Establish organizational titles and alternate means of primary and backup communications	2.4.1.G, 2.4.2.F-G, 2.4.4.U-W, 3.8, 4.1
F.1.a	Provide Telephone link and alternate for 24-hour notification to state and local agencies	2.4.1.8, 2.4.4.V, 3.8, 4.2, Annex G
F.1.b	Provide for communications with contiguous state/local agencies	2.4.1.G, 2.4.4.V, 3.8
F.1.c	Provide for communications with Federal agencies	2.4.1.G, 2.4.2.G, 3.8
F.1.d	Communication between plant, EOF, state and local EOCs and RM teams	3.8
F.1.e	Provide for alerting and activating emergency personnel	3.8, 4.2
F.1.f	Communication between NRC, EOF and environmental monitoring teams	3.8
F.2	Communication link for fixed and mobile medical	3.8, 4.6.3.E.4)
F.3	Conduct periodic testing of communication system	5.3.1.A
G. Public Education and Information		
G.1	Disseminate, annually, educational information to public	5.2.5
G.2	Disseminate, annually, educational information for transient population	5.2.5
G.3.a	Designate contacts and space for media	3.6
G.3.b	Provide space for media at the EOF	3.5.2.
G.4.a	Designate a spokesperson	2.4.5.A
G.4.b	Provide for timely exchange of information between spokespersons	2.4.5.A

NUREG-0654 REV. 1 Cross-Reference

	NUREG-0654, Criterion Paragraph	EP Section Number
G.4.c	Provide for coordinated rumor control	3.6.F
G.5	Provide annual training for media	5.2.5
H. Emergency Facilities and Equipment		
H.1	Establish TSC and OSC	3.3, 3.4
H.2	Establish EOF	3.5
H.4	Provide for timely activation of facilities	4.2, 4.3
H.5.a	Identify & establish on-site geophysical phenomena monitors	3.9.2, 3.9.5
H.5.b	On-site radiological monitors: process, area, emergency.	3.9.3, 3.9.6
H.5.c	On-site Process monitors: reactor coolant pressure, temperature, and so forth	3.9.1
H.5.d	On-site fire and combustion products detectors	3.9.8
H.6.a	Provide access to off-site geophysical monitors	3.9.2, 3.9.5
H.6.b	Access to off-site radiological monitors and sampling	3.9.3, 3.9.6, 3.9.7
H.6.c	Access to off-site laboratories: fixed or mobile	3.9.7
H.7	Provide for radiological monitoring equipment off-site	3.5.3, 3.9.3, Table 3.1-1, 4.4.4
H.8	Provide meteorological instrumentation and procedures	3.9.5
H.9	Provide for OSC and special equipment in the OSC	3.4, Table 3.1-1
H.10	Inspect emergency equipment and supplies	5.4.1
H.11	Identify emergency kits by general category	Table 3.1-1
H.12	Establish point near EOF for receipt of environmental monitoring data	3.9.7

ANNEX D

NUREG-0654 REV. 1 Cross-Reference

NUREG-0654, Criterion Paragraph		EP Section Number
I. Accident Assessment		
I.1	Identify plant system and effluent parameters and instruments values	3.91, 4.1, Figures 4.1-1, Figure 4.1.-2
I.2	Post-accident sampling, radiation monitors, and so forth	3.9.3, 4.4.2.
I.3.a	Establish methods and techniques to determine source terms	4.4
I.3.b	Methods to determine magnitude of release	4.4
I.4	Establish relationships for effluent monitor readings	4.4
I.5	Capability to acquire and evaluate meteorological data	3.9.5
I.6	Procedure for assessment when instruments off-scale	4.4.3
I.7	Describe capability and resources for environmental monitoring	2.4.4.T, Table 2.2-1, Table 3.1-1, 4.4.4
I.8	Assessment of (radiological) environmental hazards from liquid or gas	2.4.4.T, 3.9.6, 3.9.7, 4.2, 4.4.4, Table 2.2-1
I.9	Detect and measure radioiodine in the10-Mile EPZ.	3.9.6, 4.4.4
I.10	Procedure for dose or dose rate projection	4.4.3
J. Protective Response		
J.1.a	Establish means and time to warn on-site employees and individuals in the exclusion area not on the ERO	4.6.1, 4.6.2
J.1.b	Establish means and time to warn on-site visitors or visitors in the exclusion area	4.6.1, 4.6.2
J.1.c	Establish means and time to warn contractor/construction personnel	4.6.1
J.1.d	Est. means and time to warn others	4.5.4, 4.6.1

NUREG-0654 REV. 1 Cross-Reference

	NUREG-0654, Criterion Paragraph	EP Section Number
J.2	Evacuation routes and transportation for on-site people	4.6.2
J.3	Provide radiation monitoring for people in J.2	4.6.2
J.4	Provide decon capability at J.3 location	4.6.2, 4.6.3.A
J.5	Account for personnel, ascertain missing individuals within 30 minutes of start of emergency and account for on-site persons continuously thereafter.	4.6.2
J.6.a	For individuals remaining or arriving - respiratory protection	Table 3.1-1, 4.6.3.C
J.6.b	For individuals remaining or arriving - protective clothing	Table 3.1-1, 4.6.3.C
J.6.c	For individuals remaining or arriving - radioprotective drugs	Table 3.1-1, 4.6.3.C
J.7	Recommendations To Local Government	4.5
J.8	Evacuation time estimates - 10-Mile EPZ	1.7, Table 1.8-2
J.10.a	Maps-Evac. routes, areas, rad. Sampling and monitoring points, reception and shelter areas	Annex H, 4.4.4, Annex G
J.10.b	Map-Population by Sectors and local zones	1.8, Table 1.8-1, Figure 1.8-1
J.10.c	Means for notifying transient and resident population	4.5.4
J.10.m	Bases for recommended protective actions; shelter, evac. time	4.5.1, 4.5.2, Table 4.5-2
K. Radiological Exposure Control		
K.1.a	Exposure guidelines - removal of injured persons	4.6.3.D
K.1.b	Exposure guidelines - performing corrective actions	4.6.3.D
K.1.c	Exposure guidelines - performing assessment actions	4.6.3.D
K.1.d	Exposure guidelines - providing first aid	4.6.3.E

NUREG-0654 REV. 1 Cross-Reference

NUREG-0654, Criterion Paragraph		EP Section Number
K.1.e	Exposure guidelines - personnel decontamination	4.6.3.E
K.1.f	Exposure guidelines - providing ambulance service	4.6.3.B, 4.6.3.E
K.1.g	Exposure guidelines - medical treatment	4.6.3.F, 4.6.3.E
K.2	On-site radiation protection program- emergency	4.6.3.D
K.3.a	Dosimetry - 24-hour capability	4.6.3.B
K.3.b	Emergency worker dosimeters and dose records	4.6.3.B
K.5.a	Decontamination guides - action levels	4.6.3.E., Table 4.6-1
K.5.b	Means for decontamination and waste disposal	4.6.3.A, 4.6.3.E, Table 4.6-1
K.6.a	Contamination control - access control	4.6.3.E, Table 4.6-1
K.6.b	Contamination control - drinking water and food	4.6.3.G
K.6.c	Criteria for return to normal use- areas, items	4.6.3.E.3
K.7	Decontamination - relocated on-site personnel	4.6.2, 4.6.3.A, 4.6.3.E.3
L. Medical and Public Health Support		
L.1	Local and backup hospital for evaluation of radiation exposure - adequately prepared	4.6.3.F.1, Annex A
L.2	On-site first aid capability	2.4.1.F, 4.6.3.E.2
L.4	Transportation - victims of radiation accident	4.6.3.E.4, Annex A
M. Recovery and Reentry Planning and Post-Accident Operations		
M.1	Plans and procedures - relaxation of protective measures	6.4, 6.5, 6.6
M.2	Recovery organization	6.2, 6.3
M.3	Means for alerting recovery personnel	4.2, 6.4
M.4	Method for periodically estimating population dose	6.6

NUREG-0654 REV. 1 Cross-Reference

NUREG-0654, Criterion Paragraph		EP Section Number
N. Exercises and Drills		
N.1.a	Conduct annual exercise - off-site release	5.3.2
N.1.b	Verify capability to respond - Evaluate, Critique	5.3.2
N.2.a	Conduct communication drills to test communications with: State & local in10-mi. EPZ monthly; Federal & State in50-mi. EPZ quarterly; plant, State & local EOCs and field assessment teams annually.	5.3.1.A
N.2.b	Conduct fire drills per plant tech specs	5.3.1.B
N.2.c	Medical emergency drill, contaminated individual & participation by local ambulance & off-site medical facility annually.	5.3.1.C
N.2.d	Plant environs and radiological monitoring drills - annually	5.3.1.D
N.2.e.(1)	HP drill, semi-annual, response to , analysis of, simulated airborne and liquid	5.3.1.E
N.2.e.(2)	HP drill, annual, analysis of actual elevated liquid samples	5.3.1.E
N.3.a	Plans/Scenario content - objectives and evaluation criteria	5.3.2
N.3.b.	Plans/Scenario content -dates, time period, place, and participating organization	5.3.2
N.3.c	Plans/Scenario content - simulated events	5.3.2
N.3.d	Plans/Scenario content - time	5.3.2
N.3.e	Plans/Scenario content - narrative summary	5.3.2
N.3.f	Plans/Scenario content - official observers	5.3.2
N.4	Provision for critiques	5.3.2
N.5	Provision for identifying areas of improvement and assigning responsibility for corrective action	5.3.2

NUREG-0654 REV. 1 Cross-Reference

NUREG-0654, Criterion Paragraph		EP Section Number
O. Radiological Emergency Response Training		
0.1	Assure the training of individuals who maybe called on to assist in an emergency	5.2
0.1.a	Provide training for off-site emergency organizations	5.2.1, 5.2.3
0.2	Training to include practical drills - on-site organization	5.2.1
0.3	First aid team training to include Multimedia	5.2.1
0.4.a	Training of response organization directors	5.2.1
0.4.b	Training of accident assessment personnel	5.2.1
0.4.c	Training of radiological monitoring and analysis personnel	5.2.1
0.4.d	Training of police, security, fire-fighting personnel	5.2.1
0.4.e	Training of repair and damage control teams	5.2.1
0.4.f	Training of first aid and rescue personnel	5.2.1
0.4.g	Training of local support service/CD	5.2.1, 5.2.3
0.4.h	Training of medical support personnel	5.2.1, 5.2.3
0.4.i	Training of headquarters support personnel	5.2.2
0.4.j	Training of emergency communicators	5.2.1
0.5	Provide initial and annual retraining	5.2.1
P. Responsibility for the Planning Effort		
P.1	Provide training for emergency planners	5.2.4
P.2	Identify titles responsible for planning	1.3, 5.1.1
P.3	Designate Emergency Planning Coordinator	1.3, 5.1.1
P.4	Annually review and update plans and agreements	5.1.2
P.5	Distribute emergency plan; identify revisions	5.1.2

ANNEX D

NUREG-0654 REV. 1 Cross-Reference

	NUREG-0654, Criterion Paragraph	EP Section Number
P.6	List other supporting plans	1.10
P.7	List and cross-reference procedures for implementing the plan	5.1.4, Annex E
P.8	Provide Table of Contents and NUREG cross-reference	pgs. 2-7, 5.1.5, Annex D
P.9	Arrange independent review every 12 months	5.1.6
P.10	Provide for quarterly updating of telephone numbers	5.1.3

ANNEX E

List Of Emergency Preparedness Documents

Document Type		Plan Section
Emergency Plan Implementing Procedures (PEPs)		
PEP-110	Emergency Classification and Protective Action Recommendations	4.1, 4.5, 4.5.1-2
PEP-230	Control Room Operations	2.4.1, 4.6.1
PEP-240	Activation and Operation of the Technical Support Center	2.4.2, 4.8
PEP-250	Activation and Operation of the Joint Information Center	2.4.5
PEP-260	Activation and Operation of the Operations Support Center	2.4.3
PEP-270	Activation and Operation of the Emergency Operations Facility	2.4.4
PEP-310	Notifications and Communications	4.2, 4.3
PEP-330	Radiological Consequences	2.4.3.I, 2.4.4.T, 4.4.2, 4.4.4, 4.6.3, 4.6.3 E-F, 4.7
PEP-340	Dose Assessment	2.4.4.Q, 4.4.3
PEP-342	Core Damage Assessment	1.4.4, 2.4.2, 3.9.4, 4.4.1, 4.4.2
PEP-350	Protective Actions	2.4.1.E-G, 4.6.1-2,
PEP-500	Recovery	6.1-5
Emergency Program Maintenance and Administration (EPMs)		
EPM-100	EP Program Administration	5.0, 5.1.1-2, 5.1.6, 5.3.1-2
EPM-200	ERO Training Program	5.2.1-3
EPM-201	EP Staff Training Program	5.2.4
EPM-210	EP Drill and Exercise Program	5.3
EPM-211	EP Scenario Development Guidelines	5.3
EPM-400	Public Notification and Alerting System	5.5
EPM-410	Communication and Facility Performance Tests	5.0, 5.5.1-4
EPM-420	Emergency Equipment Inventory	5.0, 5.4.1
EPM-500	Public Education and Information Program	5.2.5
EPM-601	Core Damage Assessment Technical Basis	1.4.4, 2.4.2, 3.9.4, 4.4.1, 4.4.2
EPM-602	Routine Maintenance and Testing of the Dialogic System	4.2.e
Other Documents		
EPL-001	Emergency Phone List	5.1.3, Annex G

ANNEX F

The warning message form used to notify the State and Counties is provided in Annex F of the North Carolina Emergency Response Plan and is included as a form in PEP-310, "Notifications and Communications."

ANNEX G

Interfacing Information From Supporting Emergency Plans

1.0 General

The material in this Annex is included as general information on how supporting emergency plans interface with the HNP Emergency Plan. The information is presented in a similar format as the basic Plan. Emergency organization interfaces, based on levels of activation, are depicted in Figures G-1 and G-2. A summary of organizations expected to support emergency response is contained in Table G.1-1.

2.0 Coordination with Participating State and Local Government Agencies

2.1 State of North Carolina Governor's Office

The Governor has the authority to direct and control the State Emergency Management Program. During a declared State of Disaster, the Governor has the authority to utilize all available state resources reasonably necessary to cope with emergencies. The Governor's representatives coordinate as necessary with Progress Energy and with local government officials.

2.2 North Carolina Department of Crime Control and Public Safety

The Department of Crime Control and Public Safety functions as the State of North Carolina Emergency Planning Coordinator. In that capacity, the Department has overall management responsibility for North Carolina's radiological emergency response planning, development, updating, and coordination with Progress Energy. The Department coordinates emergency response activities for the State of North Carolina and other government emergency response agencies.

The Department, through its State Highway Patrol, in conjunction with the North Carolina Division of Emergency Management provides the initial 24-hour emergency notification point for the State.

2.3 North Carolina Division of Emergency Management

The Division of Emergency Management (DEM) is the responsible organization within the N.C. Department of Crime Control and Public Safety to prepare and maintain a State Radiological Emergency Response Plan for HNP in coordination with the Department of Environment, Health and Natural Resources and other interested agencies. The DEM is the lead response agency within State government and coordinates the activities of the State Emergency Response Team (SERT) at the State Emergency Operations Center (SEOC) in Raleigh. Personnel within the SEOC will confer with Progress Energy to determine appropriate emergency response activities which should be taken to protect the health and safety of the public.

The DEM in conjunction with the North Carolina Department of Crime Control and Public Safety provides the initial 24-hour emergency notification point for the State.

Interfacing Information From Supporting Emergency Plans

2.4 Radiation Protection Section

The Radiation Protection Section (RPS), within North Carolina Department of Environment, Health and Natural Resources, will be the lead agency in the collection and analysis of radiation monitoring reports and of environmental air, foliage, food, and water samples. The RPS will be assisted by qualified personnel from HNP.

2.5 Chatham County Emergency Operations

Chatham County Emergency Operations has the following responsibilities:

- Develop and maintain Chatham County's Plan to Support the Harris Nuclear Power Plant.
- Coordinate emergency response matters between the State, County, Progress Energy, and local government agencies.
- Operate the county warning point (Communications Center) on a 24-hour basis. The Communications Center is manned continuously by a Public Safety Dispatcher.
- Coordinate the protective response operations required by the Chatham County Plan to Support the Harris Nuclear Power Plant during an emergency.

2.6 Harnett County Emergency Services

Harnett County Emergency Services has the following responsibilities:

- Develop and maintain the Harnett County's Plan to Support the Harris Nuclear Power Plant.
- Coordinate emergency response matters between the State, County, Progress Energy, and local government agencies.
- Coordinate the protective response operations required by the Harnett County Plan to Support the Harris Nuclear Power Plant during an emergency.

2.7 Harnett County Sheriff's Department

The Sheriff's Department operates the county warning point on a 24-hour basis. The county warning point is the Sheriff's Department communications center which is manned continuously by a Public Safety Dispatcher.

Interfacing Information From Supporting Emergency Plans

2.8 Lee County Emergency Services

Lee County Emergency Services has the following responsibilities:

- Develop and maintain the Lee County Plan to Support the Harris Nuclear Power Plant.
- Coordinate emergency response matters between the State, County, Progress Energy, and local governmental agencies.
- Coordinate the protective response operations required by the Lee County Plan to Support the Harris Nuclear Power Plant during an emergency.

2.9 Lee County Sheriff's Department

The Sheriff's Department operates the county warning point on a 24-hour basis.

The county warning point is the Lee County communications center which is manned continuously by a Public Safety Dispatcher.

2.10 Wake County Emergency Management

The Wake County Emergency Management has been assigned the following responsibilities:

- Develop and maintain Wake County's Plan to Support the Harris Nuclear Power Plant.
- Coordinate emergency response matters between the State, County, Progress Energy, and local government agencies.
- Coordinate the protective response operations required by the Wake County Plan to Support the Harris Nuclear Power Plant during an emergency.

2.11 Raleigh Communications Center

The Raleigh City Communications Center provides emergency telephone notification service and serves Wake County and all municipalities within the county as the 24-hour warning point. The warning point is manned continuously by a Public Safety Dispatcher.

3.0 Coordination With Federal Agencies and Other States

3.1 Department of Energy, Savannah River Operations Office

The role of the Department of Energy is described in the Federal Radiological Emergency Response Plan published in the Federal Register, Volume 50, No. 217, November 8, 1985.

Interfacing Information From Supporting Emergency Plans

3.2 Federal Emergency Management Agency (FEMA)

The role of the Federal Emergency Management Agency (FEMA) is described in the Federal Radiological Emergency Response Plan.

3.3 Nuclear Regulatory Commission (NRC)

The NRC provides at least one resident inspector at HNP. Upon notification by Progress Energy, the NRC provides additional technical advice, technical assistance, and personnel per NUREG-0728, "Report to Congress, NRC Incident Response Plan," and NUREG-0845, "Agency Procedures for the NRC Incident Response Plan." The NRC Operations Center will be notified of radiation incidents in accordance with 10 CFR 50.72 using the Emergency Telecommunications System (ETS) phone.

3.4 Weather Service

The National Weather Service at the Raleigh-Durham International Airport, Raleigh, North Carolina, will provide meteorological information during emergency situations, if required. Data available will include existing and forecasted surface wind directions, wind speed with azimuth variability, and ambient surface air temperature.

4.0 Contracted Services

A number of active contracts are maintained in order to ensure continuing access to qualified personnel when and if they are needed to supplement Progress Energy resources. These contracts provide the capability of obtaining, on an expedited basis, additional maintenance support personnel (such as mechanics, electricians, and I&C Technicians), other technical personnel (such as HP and Chemistry Technicians), and engineering and consulting services. For example, contracts are maintained with Westinghouse, Atlantic Group, and Washington Group. A contract is maintained with Murray and Trettel Weather Services, Inc. and Weather Services International which provide localized weather forecasts for the system or for HNP area as requested.

Interfacing Information From Supporting Emergency Plans

5.0 Industry Resource Support

American Nuclear Insurers (ANI) would assist the affected utility by managing the insurance claims generated by the public who may be affected by an offsite radiological event.

Nuclear Electric Insurance Limited (NEIL) would assist the affected utility in determining the damage to equipment on site and managing the insurance claims made by the utility for the loss of the generation of power due to an emergency.

One of INPO's roles is to assist the affected utility in applying the resources of the nuclear industry to meet the needs of the emergency. When notified of an emergency situation, INPO will provide emergency response in accordance with the INPO Emergency Response Plan at the request of the utility. Utility emergency response planning includes notification to INPO, via the emergency telephone number, of events classified Alert or higher.

INPO is able to provide the following emergency support functions:

- Identifying sources of emergency manpower
- Dissemination of technical information concerning the incident to member utilities and participants
- Analysis of operational aspects of the incident.
- To support these functions, INPO maintains the following emergency support capabilities:
- Dedicated emergency call number capable of reaching INPO staff and activating INPO support functions 24 hours per day.
- Designated INPO representative(s) who can be dispatched to the utility to coordinate INPO support activities and information flow.
- An Emergency Response Center available for operation 24 hours per day.

An INPO duty person will respond to the call, and the Emergency Response Center at INPO will be activated as necessary.

Interfacing Information From Supporting Emergency Plans

If requested by the utility or when deemed appropriate, one or more suitably qualified members of the INPO staff will report to the Emergency Response Manager and assist in coordinating INPO's response to the emergency, as follows:

- Staffing a position responsible to the appropriate utility manager as liaison for all INPO matters.
- Working with INPO personnel in Atlanta to coordinate requests for assistance, INPO response, and related communications.
- Assisting the utility as requested in the use of industry information systems (such as NETWORK) concerning accident status and related information of interest to other utilities.
- Ensuring that emergency information released by the INPO liaison is cleared through appropriate utility channels.

An INPO representative could be dispatched on approximately a four-hour notice. On-site activities, when undertaken, will be approved by the President of INPO and coordinated with the affected utility through the on-site INPO representative.

Progress Energy Company is a signatory to the mutual assistance agreement developed by INPO for utilities in the nuclear industry.

6.0 Local Services Support

HNP is equipped and staffed to cope with many types of emergency situations. However, if a fire, medical, or other type of incident occurs that requires outside assistance, such assistance is available as shown on Table 4.0-1.

6.1 Medical Assistance

Medical assistance is available through agreements with the following organizations as described in Section 4.6.3.7 of this plan. HNP agreements with the listed agencies are on file at Progress Energy. Annex A lists each agreement:

- Local area physicians
- Rex Hospital
- WakeMed Raleigh
- WakeMed Cary

6.2 Ambulance Service

HNP maintains a contract for support services with Apex Rescue Squad, Inc. as described in Section 4.6.3.6.4 of this plan. Annex A lists this agreement.

6.3 Fire Assistance

Agencies with fire protection resources in the vicinity of HNP are as follows:

- Apex Volunteer Fire Department
- Town of Holly Springs Dept of Public Safety Division of Municipal Fire Services
- Other Wake County Fire Departments

The Apex Volunteer Fire Department is the primary fire protection response agency for HNP and will coordinate assistance activities, through a County-wide Mutual Aid Agreement of the other area Fire Departments. HNP agreement with Holly Springs is on file at Progress Energy. Annex A lists each agreement.

7.0 General Public

Protective actions which should be taken by the general public will be provided by State and local government agencies. Progress Energy Company will make recommendations to these government agencies as discussed in Section 4 of this Plan.

7.1 Evacuation

In the event that evacuation of the plume exposure pathway EPZ is required, the evacuation routes shown in Annex H will be used by on-site personnel and the public.

The time required to evacuate personnel from the plume exposure pathway EPZ varies depending on whether a part of the EPZ is to be evacuated or all of it, or prevailing weather conditions, as provided in Table 1.8-2.

7.2 Shelter

The decision to evacuate or remain (in shelter) should be based on an evaluation of many factors including the protection afforded by dwellings, public fallout shelters, and other structures that might provide protection from surface deposited radionuclides and from a gamma cloud source in the plume exposure pathway EPZ.

The locations of public shelters are depicted in Annex H.

Table G.1-1

Organizations Participating in Emergency Response

Organization	Contact	Location for Response	Approximate Response Time	Agent for Initial Notification
HNP	Site Emergency Coordinator	Control Room	5 Minutes	Superintendent - Shift Operations
Corporate Communications	On-call Corporate Communications	14th floor, PEB	1-2 Hours	On-call Corp. Communications
Nuclear Regulatory Commission	1. Emergency Office (HQ) 2. Base Team Mg (Reg.)	NRC Ops. Ctr Incident Response Center	Immediate Immediate	HQ Duty Officer Regional Duty Officer
Nuclear Regulatory Comm. (Site Team)	1. Director-Site Team OPs 2. Interim Director	EOF, New Hill EOF, New Hill	5-8 Hours 60-75 Minutes	Dir. of Site Team OPs Resident Inspector
State Emergency Response Team	SERT Coordinator	Division Emer. Management Hqtrs, Raleigh	2 Hours	Highway Patrol Communications Center
Chatham County EOC	County Board Chairman	County Law Enforcement Center	1 1/4 - 2 Hours	County Communications Center, Pittsboro
Harnett County EOC	County Board Chairman	County Law Enforcement Bldg.	1 1/4 - 2 Hours	Sheriff's Department, Lillington
Lee County EOC	County Board Chairman	Sanford Municipal Center, Sanford	1-3 Hours	Lee County Sanford Municipal Center, Sanford
Wake County EOC	County Board Chairman	County Courthouse, Raleigh	1-2 Hours	Raleigh Comm. Center
Apex Rescue Squad	Captain	HNP	30-45 Minutes	Raleigh Comm. Center
Apex Volunteer Fire Department	Captain	HNP	20 minutes	Raleigh Comm. Center

Table G.1-1

Organizations Participating in Emergency Response

Organization	Contact	Location for Response	Approximate Response Time	Agent for Initial Notification
Holly Springs Dept. Of Public Safety Division of Municipal Fire Services	Fire Chief	HNP	30-45 Minutes	Raleigh Comm. Center
Atlantic Group	Designated Staff	HNP	3-5 Hours	District Manager
National Weather Service	Designated Staff	Raleigh, NC	phone contact	Raleigh, NC
Murray and Trettel	Designated Staff	North Field, Illinois	phone contact	North Field, Illinois
Weather Service International (WSI)	Designated Staff	Landover, Maryland	phone contact	Corporate Headquarters Landover, Maryland
Washington Group	Manager of Projects	HNP	3-5 Hours	District Manager
Rex Hospital	Emergency Room	Rex Hospital, Raleigh	30-45 Minutes	Rex Emergency Room or Raleigh Comm. Center
WakMed Raleigh (WMR)	Emergency Room	WMR, Raleigh	30-45 Minutes	WMR Emergency Room or Raleigh Comm. Center
WakeMed Cary (WMC)	Emergency Room	WMC, Cary	20-30 Minutes	WMC Emergency Room or Raleigh Comm. Center
Westinghouse Electric Corporation	Emergency Response Director	Command Center Monroeville, PA	8-16 Hours	Regional Service Manager, Southern Service Region, Atlanta

Figure G-1

ERO Interfaces, TSC and EOF Not Activated

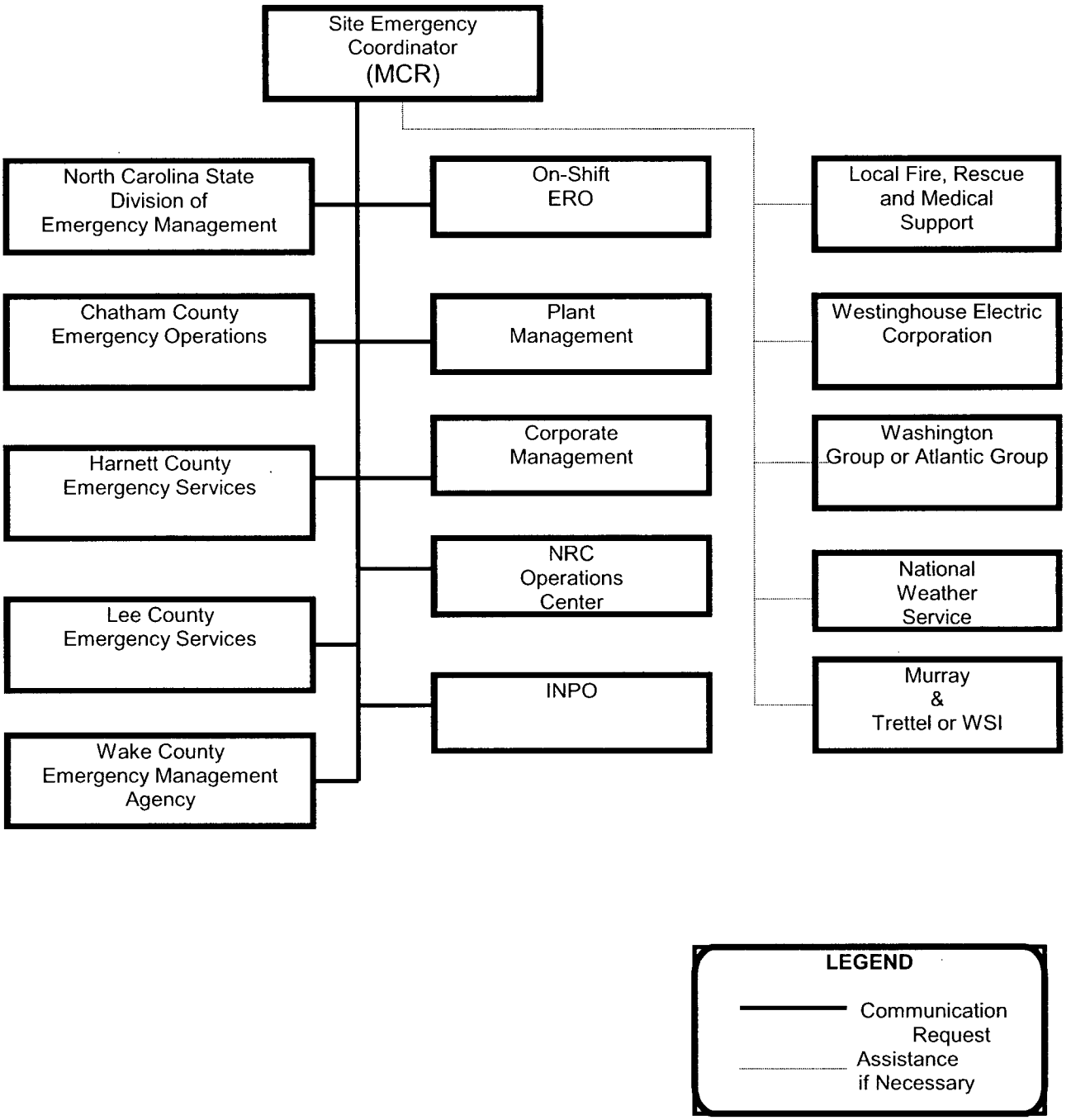
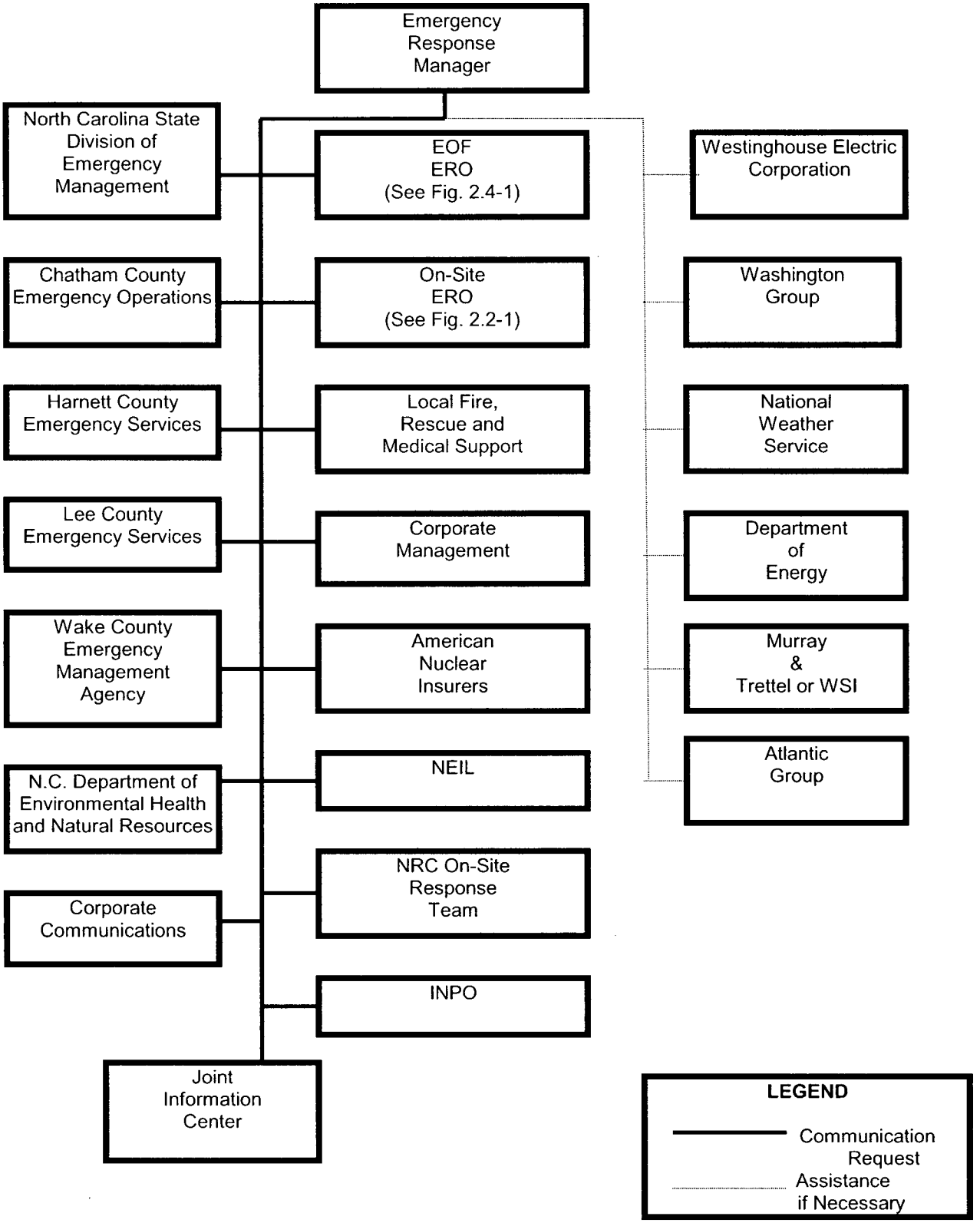


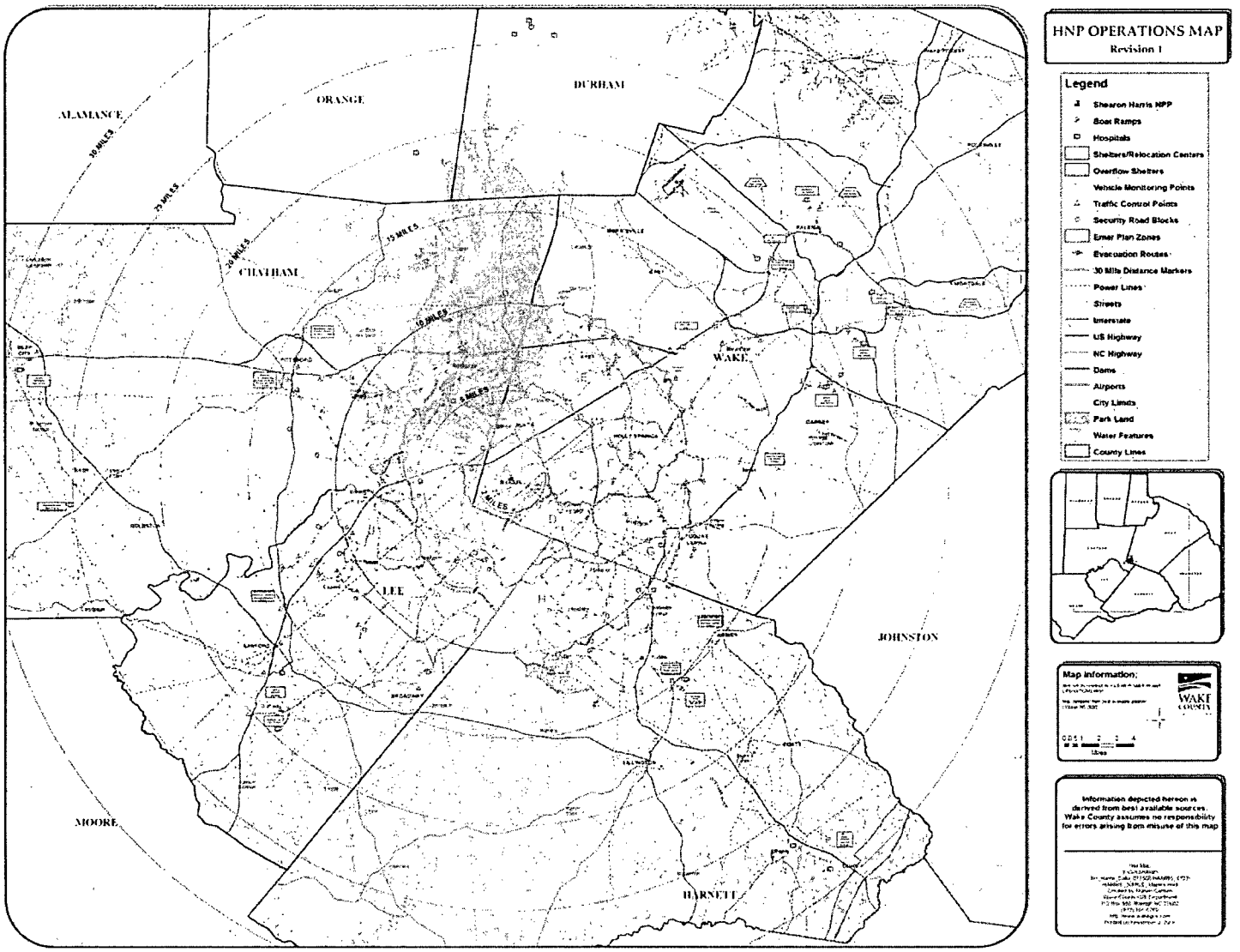
Figure G-2

ERO Interfaces, TSC and EOF Activated



Annex H

Harris Nuclear Plant - Operations Map



Revision 52

This revision addresses PRRs 00181450 and 00118913 and CORR 00181447.

Section	Description Of Change
Figure 1.5-1	Revised Figure 1.5-1 with updated 50-Mile EPZ Plume Exposure Map to include new park locations and basic changes to the Ingestion Pathway Zone area. Removed the revision number reference to map. Revision date on map itself is now used to determine latest revision. (Editorial)
Figure 1.5-2	Revised 10-Mile EPZ Plume Exposure Map to expand evacuation zones to include new population areas and to align 0-2 Mile radius evacuation zones. (PRRS 00163021, 00118913 and CORR 00181447)
Annex H	Revised 30-Mile Operations Map to include the realignment of the 0-2 Mile radius and 0- 5 Mile radius evacuation zones. Map was also revised to include new reception centers, new emergency worker monitor and decontamination facilities locations, new Traffic Control Points and Security Road Block locations and realignment of evacuation routes. (PRRS 00163021, 00118913 and CORR 00181447)

Progress Energy

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INFORMATION

USE

HARRIS NUCLEAR PLANT

PLANT OPERATING MANUAL

VOLUME 2

PART 5

PROCEDURE TYPE: PLANT EMERGENCY PROCEDURE

NUMBER: **PEP-110**

TITLE: **Emergency Classification and Protective Action Recommendations**

Table of Contents

Section Page

1.0 PURPOSE 3

2.0 INITIATING CONDITIONS 3

3.0 GENERAL 4

3.1 General Guidelines for Use of the EAL Flowpath 4

3.2 Specific Rules for Use of the EAL Flowpath 5

3.3 Protective Action Recommendations (PARs) General Guidance 7

4.0 PROCEDURE STEPS 8

4.1 Emergency Classification 8

4.2 Plant-based Protective Action Recommendations (PARs) 9

4.3 Dose Assessment Based Protective Action Recommendations (PARs) 11

4.4 Downgrading the Emergency Classification Level 13

4.5 Emergency Termination and Transition to Recovery 14

5.0 REFERENCES 14

5.1 PLP-201, "Emergency Plan" 14

5.2 Referenced Plant Emergency Procedures 14

5.3 Other References 15

6.0 SPECIAL TOOLS AND EQUIPMENT 15

7.0 DIAGRAMS AND ATTACHMENTS 15

Attachment 1: EAL Flowpath Side 1 16

Attachment 2: EAL Flowpath Side 2 17

Attachment 3: Protective Action Recommendation Process 18

Attachment 4: Event Information Worksheet 20

Attachment 5: Termination Checklist 22

Attachment 6: Dose-Assessment-Based Protective Action Recommendations Background 24

Revision Summary 26

1.0 PURPOSE

1. The purpose of this procedure is to provide guidance on the use of Emergency Action Levels (EALs) for classifying an emergency. This implements Section 4.1 of PLP-201.

2. This procedure provides guidelines for determining Protective Action Recommendations (PARs) to be made to offsite authorities during a General Emergency. This implements Section 4.5 of PLP-201.

3. This procedure provides guidance for summarizing events and actions taken during an event for use during facility turnover and facility briefings. This implements Section 2.3 of PLP-201.

4. This procedure provides guidance for event termination and entry into Recovery. This implements Section 6.7 of PLP-201.

2.0 INITIATING CONDITIONS

1. Conditions exist which, in the judgment of the Superintendent-Shift Operations (S-SO), could be classified as an emergency.

2. Entry into the Emergency Action Level network has been directed by any of the Emergency Operating Procedures, Fire Protection Procedures, Abnormal Operating Procedures, or any other procedure.

3. A Critical Safety Function Status Tree (CSFST) on the Safety Parameter Display System has produced a valid red or orange output and monitoring of the CSFSTs has been authorized in accordance with an approved procedure.

4. Notification has been received from the senior member of the Security Organization, or his designee, that a "Security Alert" or "Security Emergency" has been initiated.

5. Entry into the Emergency Action Level (EAL) Flowpath has been made at the discretion of the Site Emergency Coordinator for the purposes of reclassification.

6. A General Emergency has been declared.

7. Conditions have been stabilized and the Site Emergency Coordinator is preparing to terminate the emergency and enter into Recovery as per PEP-500.

3.0 GENERAL

3.1 General Guidelines for Use of the EAL Flowpath

1. Equivalent parameters or redundant instrumentation should be utilized whenever possible to confirm the validity of instrumentation response when evaluating Emergency Action Levels.

2. EP-EAL, Emergency Action Level Guidelines should be used when classifying events.

3. If, at any time, a General Emergency declaration is warranted, the SEC is to note the EAL Reference Number on the EAL status board. Immediately declare a General Emergency and carry out the appropriate actions.

4. If an event other than a General Emergency is warranted, the SEC is to circle the indicated level, note the EAL Reference Number on the EAL STATUS BOARD and continue through the Flowpath. Upon completion of the Flowpath the highest indicated level shall be declared.

5. The Flowpath can be entered or reevaluated at the discretion of the SEC

6. The highest emergency class for which an Emergency Action Level was exceeded shall be declared. Only one Emergency Action Level (EAL) classification should be made at a time. If two EALs are clearly met, then choose the EAL of highest priority as determined by the flow chart or as in the case of unusual events, choose the first one that was met and declare on the basis of the chosen EAL. Additional information may be placed in the remarks section on the Emergency Notification Form (ENF).

7. An event should be declared when the EAL is met even if it is momentary unless a time is specified in the EAL such as, "ALBs lost for >15 mins". If an event is declared and then the conditions improve so that the EAL is no longer exceeded prior to notification of any offsite authority then a declaration and a termination can be made on the same ENF and/or phone call. If an Alert or higher is declared and the Emergency Response Organization has been notified by Dialogics, even if in error, then the event is required to be terminated by the ERM acting as the SEC after EOF activation no matter how unnecessary it may seem.

8. It is not necessary to note lower level EALs or equivalent EALs on the ENF that may be met during a declared event.

9. For transient EALs that are exceeded for a short time, entered and exited, (e.g., ATWS), but are superseded by higher EAL prior to notification of any offsite authority, the transient EAL may be noted in the remarks section of the Emergency Notification Form.

3.1 General Guidelines for Use of the EAL Flowpath (continued)

10. If an event has been declared (current EAL) and one or more but not all Warning Points (WP's) and/or the State EOF have not been notified of the current EAL and then the EAL escalates to a higher level (subsequent EAL) e.g., Alert to a SAE, then continue to notify the remaining WP's and/or the State EOF of the current EAL. After all WP's and the State EOF have been notified of the current EAL, then re-notify all WP's and the State EOF of the subsequent (higher level) EAL. Then continue to notify all other required organizations. All other organizations may be notified of only the higher subsequent EAL in this case.

3.2 Specific Rules for Use of the EAL Flowpath

1. Entry into the EAL Flowpath will be via Entry Point X unless otherwise specifically directed by an approved plant procedure or by the EAL Flowpath itself.

2. The MOST RECENT information is to be utilized, when answering the questions asked in the EAL Flowpath. The information available may precede the event that is in progress, but it should be used until superseded by new information. As an example, the Flowpath asks if RCS activity is greater than 300 μCi/cc. The SEC is to use the last sample results (for example 10 μCi/cc) until the on-duty chemist reports otherwise.

3. When new data is available, the SEC is to reenter the EAL Flowpath at entry point X, unless directed by an approved procedure to enter at Point T, U, V, or Y.

4. When the Fission Product Barrier Analysis states to "Indicate a Fission Product Barrier (FPB) to be Breached, Jeopardized, or Intact," the SEC is to indicate (for example, with an X or check mark) the status on the FPB Status Board, before continuing with the Flowpath.

5. If any item on the EAL Flowpath cannot be answered, it is to be circled and assumed to be satisfactory until proven otherwise and evaluation of the remainder of the Flowpath is continued without delay. Samples/analysis is to be requested, if the information is unavailable or suspect. This is acceptable because sufficient backup instrumentation is available, and utilized, so that declaration of the proper EAL should not be impeded.

NOTE: The term "functional" should not be confused with the term "operable" (that is, if a component is declared inoperable per Technical Specifications, it may still be functional if it can fulfill its desired task under current conditions).

6. The "Functions Required for Shutdown" Table (EAL Table 3) list those items required for the plant to achieve and maintain shutdown and cooldown conditions.

   a. If the plant is in Modes 1, 2, or 3, then both the Mode 3 and the Modes 4-5 columns apply.

   b. If the plant is in Mode 4 or 5, then only the Mode 4-5 column applies.

7. If the plant is in Mode 5 and no charging pumps are available, an Alert should be declared only if other means of charging (that is, RHR from the RWST) are unavailable.

8. When a "Continuing Action" is encountered, record on the EAL Status Board:

   a. The time that the event began.

   b. The time that the time limit expires.

   c. The required time duration.

   d. The current EAL that will be affected when the time expires.

3.3 Protective Action Recommendations (PARs) General Guidance

1. PARs are made by HNP personnel whenever a General Emergency is declared. Additionally, if in the opinion of the Emergency Response Manager, or the SEC-CR if the EOF is not yet activated, conditions warrant the issuance of PARs, a General Emergency will be declared (HNP will not issue PARs for any accident classified below a General Emergency).

2. PARs provided in response to a radioactive release include evacuation, taking shelter and consideration of the use of KI.

    a. Evacuation is the preferred action unless external conditions impose a greater risk from the evacuation than from the dose received.

    b. HNP personnel do not have the necessary information on external factors to determine whether offsite conditions would require sheltering instead of an evacuation. Therefore, an effort to base PARs on external factors (such as road conditions, traffic/traffic control, weather or offsite emergency worker response) should not be attempted.

    c. Sheltering may be an appropriate action for controlled releases of radioactive material from the containment, if there is assurance that the release is short term (puff release) and the area near the plant cannot be evacuated before the plume arrives.

    d. KI should be a consideration if dose assessment or projection results indicate offsite dose > 5 rem CDE to the adult thyroid.

3. At a minimum, a plant condition driven PAR to evacuate a 2 mile radius and 5 miles downwind, and shelter all other Subzones, is issued at the declaration of a General Emergency. Depending on plant conditions, a 5 mile radius and 10 miles downwind, and shelter all other Subzones, may be issued instead of the minimum PAR.

    a. PARs are included with the initial and follow-up notifications issued at a General Emergency.

    b. The PAR must be provided to the State within 15 minutes of (1) the classification of the General Emergency or (2) any change in recommended actions.

    c. The PAR must be provided to the NRC as soon as possible and within 60 minutes of (1) the classification of the General Emergency or (2) any change in recommended actions.

3.3 Protective Action Recommendations (PARs) General Guidance (continued)

4. The Emergency Response Manager, or the SEC-CR if the EOF is not yet activated, may elect to specify PARs for any combinations of Subzones or the entire EPZ (or beyond) regardless of plant and dose based guidance.

5. Evacuation and shelter PARs should not be extended based on the results of dose projections unless the postulated release is likely to occur within a short period of time. Plant-based PARs are inherently conservative such that expanding the evacuation zone as an added precaution may result in a greater risk from the evacuation than from the radiological consequences of a release. It also would dilute the effectiveness of the offsite resources used to accommodate the evacuation.

6. Protective actions taken in areas affected by plume deposition following the release are determined and controlled by offsite governmental agencies.

   a. HNP is not expected to develop offsite recommendations involving ingestion or relocation issues following plume passage.

   b. HNP may be requested to provide resources to support the determination of post plume protective actions.

7. Throughout the duration of a General Emergency, assess plant conditions and effluent release status to ensure the established PARs are adequate.

4.0 PROCEDURE STEPS

4.1 Emergency Classification

NOTE:	Implementation of this Section does not constitute an emergency.
NOTE:	This section serves as a guideline to assist in comparison of plant conditions with Emergency Action Levels to evaluate whether an emergency should be declared.

1. Once implemented, this section shall remain in effect until either:

   a. The determination has been made by the Superintendent-Shift Operations or his designated alternate, that an Emergency Action Level has not been exceeded.

   b. Conditions which resulted in declaration of an emergency have been resolved and the emergency has been terminated.

4.1 Emergency Classification (continued)

2. Enter the Emergency Action Level (EAL) Flowpath at Entry Point X, unless directed to another entry point.

3. The Flowpath may be entered at any time at the discretion of the Site Emergency Coordinator (SEC-CR) or Superintendent-Shift Operations or designee. The Flowpath can be reentered as appropriate in order to check the classification or to reclassify an event in progress.

CAUTION

The highest emergency class for which an Emergency Action Level was exceeded shall be declared.

4. Complete the Flowpath, and if an emergency is declared, perform notifications in accordance with the highest level condition indicated on the EAL STATUS BOARD.

5. Implement PEP-230 and/or PEP-240 as appropriate.

4.2 Plant-based Protective Action Recommendations (PARs)

1. Use Attachment 3, "Protective Action Recommendation Process" as an aid in determining the proper PAR.

2. At a minimum, evacuation of a 2 mile radius and 5 miles downwind (with sheltering of all other Subzones) will be recommended for a General Emergency declaration.

3. Evacuation of a 5 mile radius and 10 miles downwind (with sheltering of all other Subzones) will be recommended for plant conditions in which damage is imminent or has occurred for all three fission product barriers as indicated by all three conditions below (a., b. and c.):

   a. Substantial core damage is imminent or has occurred as indicated by any of the following conditions:

      (1) Core damage estimations >1% melt.

      (2) Core Exit Thermocouple readings ≥ 2300° F.

      (3) Core uncovered > 30 minutes.

4.2 Plant-based Protective Action Recommendations (PARs) (continued)

b. A significant loss of reactor coolant is imminent or has occurred are indicated by any of the following conditions:

(1) Containment Radiation Monitors reading:

- >10,000 R/Hr with no containment spray.
- >4,000 R/Hr with containment spray on.

(2) Containment hydrogen gas concentration >1%.

(3) Rapid vessel depressurization.

(4) A large break loss of coolant accident.

c. Containment failure (primary or S/G) is imminent or has occurred as indicated by:

(1) A release of radioactivity greater than the projected dose of either:

- 1000 mRem TEDE at or beyond the site boundary.
- 5000 mRem Thyroid CDE at or beyond the site boundary.

Or a measured dose rate of either:

- >1000 mRem/hr at or beyond the site boundary.
- I-131 equivalent concentration > 3.9 E-6 µCi/cc at or beyond the site boundary.

(2) Primary containment pressure can not be maintained below design basis pressure of 45 psig.

(3) Primary containment H_2 gas concentration can not be maintained below combustible limit of 4% by volume.

(4) Faulted/Ruptured S/G with a relief valve open.

4. Containment monitors may provide indication of both core damage and RCS breach. Monitor values used to determine a specific amount of core damage are dependent on plant conditions, power history, and time after shutdown. Monitor readings used to quantify an amount of damage or coolant leakage should be complimented by other indications and engineering judgment.

5. Acceptable changes in initial PARS includes expanding evacuation but does not allow a change from evacuation of zones to sheltering of those zones.

4.2 Plant-based Protective Action Recommendations (PARs) (continued)

NOTE: A direct release is defined as a pathway from the containment to any environment outside the containment when containment or system isolation is required due to a safety injection signal, containment pressure greater than 3 psig, or a valid containment ventilation isolation signal and the pathway cannot be isolated from the Main Control Room.

6. If a release is in progress:

   a. Perform dose assessment as soon as possible to determine if PAGs are exceeded and if additional Subzones require evacuation. Add any Subzones requiring evacuation as determined by dose assessment to the plant-based PARs.

7. If no release is in progress:

   a. Perform dose projections on possible conditions as time permits to determine if PAGs could be exceeded. Consider adding any Subzones requiring evacuation as determined by dose projection to the plant-based PARs.

8. If either the dose assessment or dose projection indicate that the KI PAG (5 REM CDE to the adult thyroid) is or could be exceeded, then the KI consideration PAR should be added (line 5D on ENF).

4.3 Dose Assessment Based Protective Action Recommendations (PARs)

NOTE: Dose projections are not required to support the decision process in Attachment 3, "Protective Action Recommendation Process."

1. In the event dose assessment results indicate the need to recommend actions beyond the outer EPZ boundaries that is past 10 miles:

   a. Dispatch Environmental Teams to downwind areas to verify the calculated exposure rates prior to issuing PARs outside the EPZ.

   b. Many assumptions exist in dose assessment calculations, involving both source term and meteorological factors, which make computer predictions over long distances highly questionable.

NOTE: Refer to Attachment 6, "**DOSE-ASSESSMENT-BASED PROTECTIVE ACTION RECOMMENDATIONS BACKGROUND**" for background information on Dose Assessment Based PARs.

4.3 Dose Assessment Based Protective Action Recommendations (PARs) (continued)

2. From the Control Room: If a release is in progress and time permits, perform offsite dose assessment in accordance with PEP-340 to determine whether the plant-based protective actions of Attachment 3 are adequate.

3. From the Emergency Operations Facility: Conduct offsite dose assessment in accordance with PEP-340 to determine whether the plant-based protective actions of Attachment 3 are adequate using the following methods as applicable:

   a. Monitored Release:

      (1) If a release is in progress, assess the calculated impact to determine whether the plant-based PARs of Attachment 3 are adequate.

      (2) If a release is not in progress, use current meteorological and core damage data to project effluent monitor threshold values which would require 2, 5, and 10 mile evacuations (Attachment 3). Reestablish threshold values whenever meteorological conditions or core damage assessment values change.

   b. Containment Leakage/Failure:

      (1) If a release is in progress, assess the calculated impact to determine whether the plant-based PARs of Attachment 3 are adequate.

      (2) If a release is not in progress, use current meteorological and core damage data on various scenarios (design leakage, failure to isolate, catastrophic failure) to project the dose consequences.

         - Determine whether the plant-based PARs of Attachment 3 are adequate.

         - Reestablish scenario values whenever meteorological conditions or core damage assessment values change.

   c. Field Survey Analysis: Actual field readings from Environmental Teams should be compared to dose assessment results and used as a dose projection method to validate calculated PARs and to determine whether the plant or release based protective actions of Attachment 3 are adequate.

4.3 Dose Assessment Based Protective Action Recommendations (PARs) (continued)

d. Release Point Analysis: Actual sample data from monitored or unmonitored release points should be utilized in conjunction with other dose assessment and projection methods to validate calculated PARs and to determine whether the plant-based protective actions of Attachment 3 are adequate.

4. The Emergency Response Manager and the Radiological Control Manager shall discuss dose assessment and projection analysis results and evaluate their applicability prior to issuing PARs to the State if possible.

4.4 Downgrading the Emergency Classification Level

NOTE: The preferred method during plant recovery concerning EALs is to terminate the declared event when the plant has recovered from the effects of the initiating events rather than reducing the EAL level as recovery is completed. It is not required that emergency declarations be reduced and lower EALs declared as plant conditions improve.

1. If the action level currently has abated to a lower declaration or the situation has been resolved prior to completion of off-site reporting:

   a. Declare the highest classification for which an Emergency Action Level was exceeded, if not already done, and

   b. Evaluate downgrading to the emergency classification appropriate for the present conditions.

2. Downgrading of an emergency is performed by issuing a notification to a lower emergency classification level whenever plant conditions improve to satisfy the affected Emergency Action Levels. However, the following guidelines apply:

   a. If the Emergency Response Manager (ERM) position is activated, they shall be consulted before downgrading occurs.

   b. If the NRC Director of Site Operations position is activated, they should be consulted before downgrading occurs.

   c. If offsite Protective Action Recommendations have been made, the SEC-TSC shall consult with the ERM and with State and County authorities, prior to downgrading. It is recommended that any off-site Protective Action Recommendations be completed prior to downgrading of a General Emergency.

4.4 Downgrading the Emergency Classification Level (continued)

d. Where lasting damage has occurred to the fission product barriers or to safety systems, the ERM should transition to PEP-500 rather than a simple downgrade of the emergency.

e. For Alert or higher classifications, unless the conditions causing emergency action levels are very quickly resolved (less than approximately 30 minutes), downgrading should not occur until after the TSC and EOF are activated.

4.5 Emergency Termination and Transition to Recovery

1. If entering Recovery from an Unusual Event, determine the need for a Recovery Plan and support organization.

   a. Generally, the activities following an Unusual Event will not require the formation of a Recovery Organization or a transition period prior to event termination and entry into Recovery.

   b. Refer to PEP-500 for further guidance if recovery efforts following an Unusual Event extend beyond offsite notification and the generation of required reports.

2. Complete the Termination Checklist (Attachment 5).

   a. If conditions will allow for the termination of the emergency and entry into Recovery, exit this procedure and enter PEP-500, "Recovery."

   b. If conditions do no support termination of the emergency and entry into Recovery, continue following the guidance provided in Section 3.1.

5.0 REFERENCES

5.1 PLP-201, "Emergency Plan"

1. Section 4.1, "Emergency Classification"

2. Section 4.5.1, "Protective Action Guides"

5.2 Referenced Plant Emergency Procedures

1. PEP-230

2. PEP-240

3. PEP-270

4. PEP-310

5. PEP-500

5.3 Other References

1. State of North Carolina Radiological Emergency Response Plan for Nuclear Power Facilities

2. EPA 400-R-92-001, "Manual of Protective Action Guides and Protective Actions for Nuclear Incidents"

3. NUREG-0654 Supplement 3, "Criteria for Protective Action Recommendations for Severe Accidents"

4. NUREG/BR-0150, Vol. 4, Rev.4, US NRC, RTM-96 Response Technical Manual

5. Regulatory Guide 1.101 "Emergency Planning and Preparedness for Nuclear Power Plants"

6. EPPOS No.1 "Emergency Preparedness Position (EPPOS) on Acceptable Deviations to Appendix 1 to NUREG-0654/FEMA-REP-1"

7. Evacuation Time Estimates for the Harris Nuclear Plant, Innovative Emergency Management Final Report October 29, 2002

8. NRC Bulletin 2005-02, "Emergency Preparedness and Response Actions for Security-Based Events"

9. EP-EAL, Emergency Action Level Guidelines

6.0 SPECIAL TOOLS AND EQUIPMENT

1. EAL Flow Paths: Mounted EAL Flow Paths are maintained in the Main Control Room, TSC and EOF

2. PAR Boards: Mounted PAR boards, based on Attachment 3, are maintained in the Main Control Room, TSC and EOF

3. EP-EAL: Copies of the Emergency Action Level Guidelines are maintained in the Main Control Room, TSC and EOF

7.0 DIAGRAMS AND ATTACHMENTS

See Table of Contents.

Attachment 1 - EAL FLOWPATH SIDE 1
Sheet 1 of 1

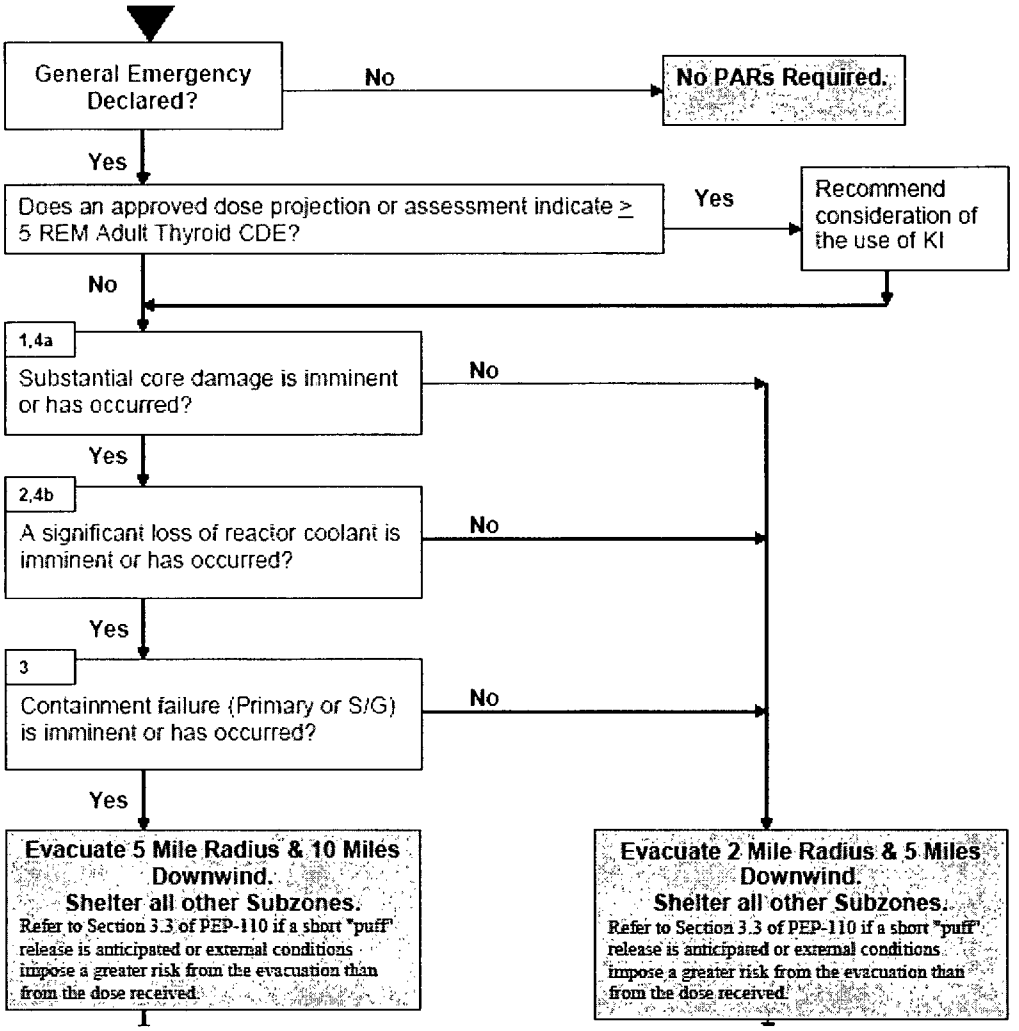
A Folded Copy of the Emergency Action Level
Flowpath (Rev. 06-1) is contained in the
Plastic Sleeve Following This Hardcopy Page

Attachment 2 - EAL FLOWPATH SIDE 2

Sheet 1 of 1

A Folded Copy of the Emergency Action Level
Flowpath (Rev. 06-1) is contained in the
Plastic Sleeve Following This Hardcopy Page

Attachment 3 - PROTECTIVE ACTION RECOMMENDATION PROCESS
Sheet 1 of 2



5 Mile Radius, 10 Miles Downwind

Wind Direction (From °)	Evacuate Subzones	Shelter Subzones
348° - 010°	A,B,C,D,H,I,K,L	E,F,G,J,M,N
011° - 034°	A,B,C,D,H,I,K,L	E,F,G,J,M,N
035° - 079°	A,B,C,D,I,J,K,L,M	E,F,G,H,N
080° - 101°	A,B,C,D,J,K,L,M	E,F,G,H,I,N
102° - 124°	A,B,C,D,K,L,M	E,F,G,H,I,J,N
125° - 146°	A,B,C,D,K,L,M,N	E,F,G,H,I,J
147° - 191°	A,B,C,D,E,K,L,M,N	F,G,H,I,J
192° - 214°	A,B,C,D,E,K,L	F,G,H,I,J,M,N
215° - 236°	A,B,C,D,E,K,L	F,G,H,I,J,M,N
237° - 259°	A,B,C,D,E,F,K,L	G,H,I,J,M,N
260° - 326°	A,B,C,D,F,G,H,K,L	E,I,J,M,N
327° - 347°	A,B,C,D,H,K,L	E,F,G,I,J,M,N

2 Mile Radius 5 Miles Downwind

Wind Direction (From °)	Evacuate Subzones	Shelter Subzones
327° - 010°	A,D,K	B,C,E,F,G,H,I,J,L,M,N
011° - 056°	A,K	B,C,D,E,F,G,H,I,J,L,M,N
057° - 124°	A,K,L	B,C,D,E,F,G,H,I,J,M,N
125° - 191°	A,B,L	C,D,E,F,G,H,I,J,K,M,N
192° - 214°	A,B	C,D,E,F,G,H,I,J,K,L,M,N
215° - 259°	A,B,C	D,E,F,G,H,I,J,K,L,M,N
260° - 261°	A,C	B,D,E,F,G,H,I,J,K,L,M,N
262° - 304°	A,C,D	B,E,F,G,H,I,J,K,L,M,N
305° - 326°	A,D	B,C,E,F,G,H,I,J,K,L,M,N

Acceptable changes in initial PARS would include expanding evacuation but would not allow a change from evacuation of zones to sheltering of those zones.

1. Indications that substantial core damage is imminent or has occurred include:
   a) Core damage > 1% melt.
   b) Core Exit Thermocouple readings ≥ 2300° F.
   c) Core uncovered > 30 minutes.
2. Indications that a significant loss of reactor coolant is imminent or has occurred include:
   a) Containment radiation reading > 10,000 R/Hr without spray or > 4,000 R/Hr with spray.
   b) Containment hydrogen gas concentration > 1%.
   c) Rapid vessel depressurization.
   d) A large break loss of coolant accident.
3. Indications that containment failure (primary or S/G) is imminent or has occurred are indicated by:
   a) A release of radioactivity greater than the projected dose of either:
      - 1000 mRem TEDE at or beyond the site boundary.
      - 5000 mRem Thyroid CDE at or beyond the site boundary.

      Or a measured dose rate of either:
      - >1000 mRem/hr at or beyond the site boundary.
      - I-131 equivalent concentration > 3.9 E-6 µCi/cc at or beyond the site boundary.
   b) Primary containment pressure can not be maintained below design basis pressure of 45 psig.
   c) Primary containment H_2 gas concentration can not be maintained below combustible limit of 4% by volume.
   d) Faulted/Ruptured S/G with a relief valve open.
4. Accidents which result in a direct release pathway to the environment will most likely be thyroid dose limiting. For a faulted and ruptured S/G, water level must be below the tube bundles (S/G Narrow Range < 25% normal containment conditions or < 40% adverse containment conditions) with a relief valve open before it is considered a direct release pathway to the environment. For circumstances involving a direct release pathway to the environment:
   a) Consider **any** Fuel Breach sufficient to warrant the determination that substantial core damage has occurred.
   b) Consider **any** RCS Breach sufficient to warrant the determination that a significant loss of reactor coolant has occurred.

NOTE: A direct release is defined as a pathway from the containment to any environment outside the containment when containment or system isolation is required due to a safety injection signal, containment pressure greater than 3 psig, or a valid containment ventilation isolation signal and the pathway cannot be isolated from the Main Control Room.

Containment monitors can provide indication of both core damage and RCS breach. Monitor readings used to quantify an amount of damage or coolant leakage should be complimented by other indications and engineering judgment.

<u>If a release is in progress:</u>

- Perform dose assessment as soon as possible to determine if PAGs are exceeded and if additional Subzones require evacuation.
- Add any Subzones requiring evacuation as determined by dose assessment to the plant-based PARs.

<u>If no release is in progress:</u>

- Perform dose projection on possible conditions as time permits to determine if PAGs could be exceeded. Consider adding any Subzones requiring evacuation as determined by dose projection to the plant-based PARs.

Date/Time:_____ (Use ERFIS time)

EVENT INFORMATION WORKSHEET

A) Emergency Classification

Time Declared: _____ (24 hr)

❑ Unusual Event ❑ Alert

❑ Site Area ❑ General

Provide a brief summary of the event and mitigating actions in progress:

EAL: _____

B) Fission Product Barrier Status

	Fuel	RCS	Cnmt
Intact:	❑	❑	❑
Jeopardy:	❑	❑	❑
Breached:	❑	❑	❑

C) Plant Conditions

❑ On-Line ❑ At Power: _____%

❑ Off-Line ❑ Cooling Down

❑ Cold Shutdown

Time of Rx Shutdown: _____ (24 hr)

❑ Stable ❑ Improving

❑ Degrading

Describe plant and recent activities _____

Describe equipment, instrument, or other problems: _____

ERDS Status: ❑ On-Line ❑ Off-Line

ERFIS Status: ❑ On-Line ❑ Off-Line

D) Radiological Release

❑ None ❑ Controlled

❑ Is Occurring ❑ Uncontrolled

❑ Has Occurred ❑ Below PAGs

❑ Above PAGs

Time Started: _____ (24 hr)

Noble Gas: _____ Ci/sec

Iodines: _____ Ci/sec

Projected Duration: _____ hours

Environmental Monitoring Team activities: _____

E) Personnel Status

Missions in plant: ❑ No ❑ Yes

Location of in-plant teams/personnel:_____

Injuries (No._____): ❑ No ❑ Yes

Contamination(s): ❑ No ❑ Yes

Over Exposure(s): ❑ No ❑ Yes

❑ Minor ❑ Major

Details (names of injured, status of family notification): _____

F) Facility Activation Status

❑ TSC: _____ (24 hr)

❑ OSC: _____ (24 hr)

❑ EOF: _____ (24 hr)

❑ JIC: _____ (24 hr)

If TSC is not ready for activation can the TSC accept responsibility for:

Notification to NRC: ❑ N/A ❑ No ❑ Yes

If EOF is not yet ready for activation can the EOF accept responsibility for:

Emergency Communicator Communications to State and Counties (ENF must still be approved by SEC) ❑ No ❑ Yes

Dose Assessment ❑ No ❑ Yes

EVENT INFORMATION WORKSHEET

G) Offsite Assistance Requested

- ❑ None
- ❑ Medical _____ (24 hr)
  - ❍ Ambulance ❍ Helicopter
- ❑ Fire Department _____ (24 hr)
  - ❍ Holly Springs ❍ Apex
- ❑ Law Enforcement _____ (24 hr)
  - ❍ Local ❍ State

H) Onsite Protective Actions

- ❑ None
- ❑ Assembly/Accountability
- ❑ Local Area(s) Evacuated
- ❑ Protected Area Evacuated
- ❑ Exclusion Area Evacuated
- ❑ Potassium Iodide Issued
- ❑ Employee Info Phone #: _____

I) Offsite Notifications (last issued)

State/County	Time: _____	(24 hr)
NRC	Time: _____	(24 hr)
News Release	Time: _____	(24 hr)
Hospital	Time: _____	(24 hr)
INPO	Time: _____	(24 hr)
ANI	Time: _____	(24 hr)

J) PARs

- ❑ None Issued, or
  - ❍ Evac: A B C D E F G H I J K L M N
  - ❍ Shelter: A B C D E F G H I J K L M N
    (Circle the affected subzones)
  - ❍ Consideration of the use of KI

K) Offsite Facility Activation Status

- ❑ Chatham County EOC: _____ (24 hr)
- ❑ Harnett County EOC: _____ (24 hr)
- ❑ Lee County EOC: _____ (24 hr)
- ❑ Wake County EOC: _____ (24 hr)
- ❑ State EOC: _____ (24 hr)
- ❑ NRC Incident Response Center: _____ (24 hr)

L) Offsite Actions/Response

- ❑ None Issued, or
  - ❍ Schools ❍ Daycare
  - ❍ Hospitals ❍ Rest Homes
  - ❍ Lake Evacuations
  - ❍ Other: _____
  - ❍ Evac: A B C D E F G H I J K L M N
  - ❍ Shelter: A B C D E F G H I J K L M N
    (Circle the affected subzones)
  - ❍ KI administered to the General Public
- ❑ Sirens Activated: _____ (24 hr)
- ❑ Tone Alerts Activated: _____ (24 hr)
- ❑ EAS Activated: _____ (24 hr)

Any applicable incomplete items from previous pages of PEP-230, Attachment 1 - SITE EMERGENCY COORDINATOR – CR checklist?_____

Any assistance needed?_____

Comments

_____

_____

_____

_____

_____

TERMINATION CHECKLIST

		True	False
1.	Conditions no longer meet an Emergency Action Level and it appears unlikely that conditions will deteriorate. List any EAL(s) which is/are still exceeded and a justification as to why a state of emergency is no longer applicable: _____ _____ _____ _____ _____ _____	❑	❑
2.	Plant releases of radioactive materials to the environment are under control (within Tech Specs) or have ceased and the potential for an uncontrolled radioactive release is acceptably low.	❑	❑
3.	The radioactive plume has dissipated and plume tracking is no longer required. The only environmental assessment activities in progress are those necessary to determine the extent of deposition resulting from passage of the plume.	❑	❑
4.	In-plant radiation levels are stable or decreasing, and acceptable given the plant conditions.	❑	❑
5.	The reactor is in a stable shutdown condition and long-term core cooling is available.	❑	❑
6.	The integrity of the Reactor Containment Building is within Technical Specification limits.	❑	❑
7.	The operability and integrity of radioactive waste systems, decontamination facilities, power supplies, electrical equipment and plant instrumentation including radiation monitoring equipment is acceptable.	❑	❑
8.	Any fire, flood, earthquake or similar emergency condition or threat to security no longer exists.	❑	❑

TERMINATION CHECKLIST

		True	False
9.	Any contaminated injured person has been treated and/or transported to a medical care facility.	❑	❑
10.	All required notifications have been made.	❑	❑
11.	Offsite conditions do not unreasonably limit access of outside support to the station and qualified personnel and support services are available.	❑	❑
12.	Discussions have been held with Federal, State and County agencies and agreement has been reached and coordination established to terminate the emergency.	❑	❑

It is not necessary that all responses listed above be 'TRUE'; however, all items must be considered prior to event termination and entry into Recovery. For example, it is possible that some conditions remain which exceed an Emergency Action Level following a severe accident but entry into Recovery is appropriate. Additionally, other significant items not included on this list may warrant consideration such as severe weather.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

Approved: _____ Date/Time: _____
Site Emergency Coordinator

1. Protective Action Guides

   - The evacuation of the general public will usually be justified when the projected TEDE dose to an individual is one rem or greater or the projected CDE thyroid dose is five rem or greater.

2. EPZ Subzones

   - The objective of the dose assessment calculations is to allow for the determination of protective actions. Protective actions may affect any portion of or the entire Emergency Planning Zone (EPZ).

   a. The EPZ extends out to ten miles from the plant. The EPZ is then divided radially into three rings (0-2, 2-5, and 5-10 miles) and axially into sixteen 22.5° sectors. This allows for the implementation of protective actions within specifically affected areas, or 'Key Holes' rather than across the entire EPZ.

   b. Subzones are used to define the areas within the Harris EPZ. Radial distances are maintained approximately equal to the standard EPZ, but axial sector based areas have been abandoned. The fourteen Subzones which make up the HNP EPZ are divided using geopolitical, natural, and man-made boundaries.

   c. The Subzones are divided into three groups.

      (1) Subzone A encompasses the inner ring which extends out to approximately two miles from the plant.

      (2) Subzones B, C, D, K, and L compose the middle ring, at about two to five miles from the plant.

      (3) Subzones E, F, G, H, I, J, M, and N make up the outer ring, five to ten miles from the plant.

3. Subzone Evacuation Groups

   a. The combination of Subzones which compose a group was determined as follows:

   b. For any given wind direction a combination of Subzones will be affected by the plume. By defining the maximum horizontal dispersion at ten miles in the crosswind axis for a plume of stability class 'A' (most unstable) and solving for the angle a plume with a 32 ^{o} footprint is created.

$$\sigma_y = (-0.0234 * \ln(x) + 0.350)x = 2.96 \text{ miles}$$

$$\tan(x) = \sigma_y/x = 16^{o}$$

   c. The wind direction band that will affect each Subzone is ascertained by transcription of worse case plume onto a United States Geological Survey map. By accounting for the overlapping of wind directions, fifteen distinct Subzone combinations (groups) are established.

   d. Taking into account that not all Subzones out to the EPZ boundary need be evacuated in all cases, additional subarea groups are generated. From this, twenty five possible evacuation combinations exist for all possible wind directions. A further adjustment was included to align the sub-area groups to agree with the ETE data. The combinations of subarea groups are as follows:

Evacuation Subzone/Groups

W.D. (^{o} From)	0-2 Miles		0-5 Miles		0-10 Miles	
	Sub-zone	Group #	Sub-zones	Group #	Sub-zones	Group #
011°-034°	A	1	A, K	2	A, K, H, I, J	11
035°-056°	A	1	A, K	2	A, K, I, J, M	12
057°-079°	A	1	A, K, L	3	A, K, I, J, L, M	13
080°-101°	A	1	A, K, L	3	A, K, J, L, M	14
102°-124°	A	1	A, K, L	3	A, K, J, L, M, N	15
125°-146°	A	1	A, B, L	4	A, B, L, M, N	16
147°-191°	A	1	A, B, L	4	A, B, E, L, M, N	17
192°-214°	A	1	A, B	5	A, B, E, N	18
215°-236°	A	1	A, B, C	6	A, B, C, E, F	19
237°-259°	A	1	A, B, C	6	A, B, C, E, F, G	20
260°-281°	A	1	A, B, C, D	7	A, B, C, D, F, G, H	21
282°-304°	A	1	A, C, D	8	A, C, D, F, G, H	22
305°-326°	A	1	A, C, D, K	9	A, C, D, F, G, H, K	23
327°-347°	A	1	A, D, K	10	A, D, G, H, I, K	24
348°-010°	A	1	A, D, K	10	A, D, H, I, K	25

Revision Summary for PEP-110 Rev. 16

Section 3.1	Added additional general rules of usage for EAL classification. PRR 00191044
Section 4.2.3.c	Replaced the words "General Emergency EAL criteria" with the actual definition. PRR 00179370
Attachment 3	Revised evacuation and shelter subzones to reflect updated 10 mile EPZ map. PRR 00181454, 00198660 Added statement to refer to Section 3.3 concerning "puff" releases into PAR chart. (editorial) Removed NOTE concerning KI PAR and made it part of flow chart. PRR 00204909 Defined "General Emergency EAL criteria" and replaced those words with the definition in note 3a. PRR 00179370 Removed references to recommendations for the consideration of the use of KI from sections concerning releases. KI recommendation is now in its own box in the flow chart in Attachment. PRR 00179370
Attachment 4	Added specific turn over items ("Plant and recent activities, Location of in-plant teams/personnel, Environmental Monitoring Team activities, Any applicable incomplete items from previous pages of this checklist and Any assistance that is needed") to Attachment 4, "Event Information Worksheet" PRR 00202748 Added NOTE concerning termination of an emergency as preferred method. Changed "NOTES" to "Comments". (editorial)

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Progress Energy	I INFORMATION USE

HARRIS NUCLEAR PLANT

PLANT OPERATING MANUAL

VOLUME 2

PART 5

PROCEDURE TYPE: PLANT EMERGENCY PROCEDURE

NUMBER: **PEP-230**

TITLE **Control Room Operations**

Table of Contents

Section		Page
1.0	PURPOSE	3
2.0	INITIATING CONDITIONS	3
3.0	GENERAL	3
3.1	NLO Guidance:	4
3.2	Guidance during a fire emergency:	4
4.0	PROCEDURE STEPS	5
5.0	REFERENCES	5
5.1	Emergency Plan References	5
5.2	Referenced Plant Emergency Procedures	6
5.3	Other References	6
6.0	DIAGRAMS/ATTACHMENTS	6
Attachment 1:	Site Emergency Coordinator-CR	7
Attachment 2:	Plant Operations Director	19
Attachment 3:	Emergency Communicator-CR	26
Attachment 4	Control Room Emergency Briefing Guide	36
Attachment 5	MCR Emergency Log Continuation	37
Attachment 6	Accelerated Call to NRC for Security Events	38

1.0 PURPOSE

1. This procedure partially implements Section 2.3 and Section 2.4 of the Emergency Plan PLP-201.
2. It specifies the actions taken by Emergency Response Organization (ERO) personnel who perform response activities from the Main Control Room.

2.0 INITIATING CONDITIONS

1. An emergency has been declared, or
2. Conditions exist that may warrant an emergency declaration.

3.0 GENERAL

The Site Emergency Coordinator – CR and Emergency Communicator – CR Attachments (1 and 3) contain an "Initial Actions" section. The "Initial Actions" section is designed to guide the ERO member through the priority tasks following initial discovery of a condition or event requiring an emergency declaration. Specifically:

- Event declaration is required within 15 minutes of the time that plant parameters reach an Emergency Action Level.
- Alerting of on site personnel via Public Address announcement is required within 15 minutes of event declaration.
- Notification of event declaration to the State and County officials is required within 15 minutes of event declaration.
- Accountability must be completed within 30 minutes of; a Site Area Emergency or higher declaration; or decision to conduct accountability. Accountability may be delayed to protect site personnel during a security event. However, it should be performed as soon as it is safe to do so.
- Notification of event declaration to the NRC is required "as soon as possible" and no later than 60 minutes after an event declaration.
- Activation of the NRC ERDS data link is required within 60 minutes of an Alert or higher event declaration.

The Plant Operations Director Attachment (2) also contains an "Initial Actions" section. This section is designed to guide the ERO member through the priority tasks associated with preparation for, and conduct of, the activation of the HNP Emergency Response Facilities.

The exact circumstances may dictate that portions of the Responsibility/Activity section is performed concurrent with the Initial Actions section of Attachments 1 - 3.

3.1 NLO Guidance:

1. During an event including an Alert or higher all NLO watch stations should report to the control room promptly after putting work in a safe condition.
2. In some cases NLOs will be assigned tasks at the start of the event. NLOs assigned to tasks related to event response should confirm with the control room if they are unsure if they should continue when they hear a change in classification.
3. Once the OSC is staffed, an HP will be dispatched to the MCR. The primary purpose of this HP is to be a liaison between the OSC and MCR to provide guidance to the POD and SEC – CR on changing radiological conditions and protective measures that must be taken for people being sent in the plant.
4. The POD is accountable for ensuring all members of the shift are accounted for. If any shift members are dispatched from the MCR the POD must be informed. The POD will confer with the control room HP to ensure radiological protective measures are being met. The RCC in the OSC should be used for guidance, direction and for development of Emergency Radiation Work Permits.
5. Members of the control room must take care when assigning people who are already dispatched to perform additional duties prior to returning. The POD must be informed when this occurs and the control room HP should provide concurrence that the previous radiological guidance is still adequate.
6. Operators sent out in the plant must also take responsibility for their dose. They should ask about dose rates and make sure they or someone has talked to an HP on their behalf.
7. Doses to protect equipment and save lives shall be managed per PEP-330.

3.2 Guidance during a fire emergency:

1. The control room, generally the USCO and the POD, will use the input of the HP on the fire brigade to provide radiological information to the Site Incident Commander (SIC).

2. The SIC should work with the POD when the fire is out to ensure personnel exposure is considered, this includes activities such as cleanup, reflash watch and so forth.

4.0 PROCEDURE STEPS

1. If on-shift personnel assigned to MCR Emergency Response Organization (ERO) positions of Site Emergency Coordinator - Control Room and Emergency Communicator are not present in the MCR, they are to be immediately notified to report to the MCR.

2. Attachments 1-3 provide a listing of tasks and activities for the MCR Emergency Response Organization (ERO) positions.

3. Attachment 4 provides a guideline for performance of periodic MCR/Operations staff briefs.

4. Attachment 5 provides a continuation page for POD and EC-CR logs started in Attachments 2 and 3.

5. This procedure is implemented through the use of a notebook which is maintained in the MCR for each ERO position. The notebook contains copies of the PEP attachments most likely to be needed by the position (refer to the table below).

ERO POSITION NOTEBOOK:	**CONTENTS (Attachments)**	
SITE EMERGENCY COORDINATOR-CR (SEC-CR)	1. PEP-230, Att.1 2. PEP-310, Att.9 3. PEP-310, Att.12	4. AP-617, Att.6 5. PEP-110, Att.4 6. PEP-230, Att.4 7. PEP-230, Att.6
PLANT OPERATIONS DIRECTOR (POD)	1. PEP-230, Att.2 2. PEP-230, Att.4 3. PEP-230, Att.5	4. PEP-310, Att.1 5. PEP-110, Att.4
EMERGENCY COMMUNICATOR-CR (EC-CR)	1. PEP-230, Att.3 2. PEP-310, Att.6 3. PEP-310, Att.7 4. PEP-310, Att.8 5. Verification Code Words 6. PEP-310, Att.10	7. PEP-310, Att.11 8. PEP-310, Att.1 9. PEP-310, Att.13 10. PEP-230, Att.5 11. PEP-310, Att.9

5.0 REFERENCES

5.1 Emergency Plan References

1. Section 2.3, "Command and Control"

2. Section 2.4, "Assignment of Responsibilities"

5.2 Referenced Plant Emergency Procedures

1. PEP-110
2. PEP-310
3. PEP-330
4. PEP-340
5. PEP-350

5.3 Other References

1. PRO-NGGC-0204
2. AP-617
3. EPL-001, "Emergency Phone List"
4. EPM-420
5. FPP-002
6. OP-163.01
7. OP-173
8. PRO-NGGC-0200
9. AOP-038
10. AR 119513, Control Room In-Leakage
11. National Response Plan
12. NRC BULLETIN 2005-02, Emergency Preparedness and Response Actions for Security-Based Events
13. NRC Regulatory Issue Summary 2004-15, Supplement 1, Emergency Preparedness Issues: Post-9/11

6.0 DIAGRAMS/ATTACHMENTS

See Table of Contents

Initial Actions (page 1 of 3)

> **NOTE: Position Function:** Manage and direct all emergency operations involving the facility and maintain overall onsite emergency responsibilities including classification.

1. If events may require implementation of the Emergency Plan, notify S-SO, STA and Emergency Communicator (EC) to report to the MCR. ..... _____

> **NOTE:** If notified of a Security Event by the NRC this step is not required.
>
> **NOTE:** If notified of an airborne threat by the NRC then maintain continuous communications to allow NRC to provide guidance and additional information concerning the airborne threat that may affect response actions. [**R** 5.3.13]

R 5.3.12 2. If any security-based event(s) has occurred that is considered to be an imminent or actual threat after being informed by the station security staff then immediately complete Steps 1-4 of Attachment 6 – Accelerated Call to NRC for Security Events and direct the Emergency Communicator or other Control Room personnel to contact the NRC (goal of within 15 minutes) and complete Attachment 6..... _____

3. If events require fire or first aid response:
   a. Initiate Fire response actions per FPP-002 and Fire Area Pre-plans ..... _____
   b. Initiate First Aid response actions per PEP-350, Section 4.5 ..... _____
   c. Ensure First Aid/Search and Rescue Teams are prepared. ..... _____
   d. Direct the EC to initiate actions in PEP-230, Att. 3..... _____
   e. If required, direct the EC to request off-site support per PEP-310, Att.1..... _____
4. Evaluate emergency classification per EAL Flow Path and PEP-110. ..... _____
5. Perform a quick review of plant conditions with MCR staff (verify facts)..... _____
6. As soon as plant operational activities support, brief MCR Crew to include:
   a. Emergency Classification _____ declaration time _____
   b. Initial personnel assignments and expectations
      - Site Emergency Coordinator: _____.
      - Designate USCO to coordinate and supervise MCR activities and implement AOPs and EOPs as needed,
      - Emergency Communicator _____.

(Initial Actions are continued on the next page)

Initial Actions (page 2 of 3)

7. Direct Emergency Communicator (EC) to coordinate with USCO and brief plant site via PA system ..... _____

> **NOTE:** For a declared event involving a security threat, consideration should be given for the following:
>
> - Delaying the activation of the ERO until Security gives permission or until the "All Clear" PA announcement is made, if plant personnel would be put at risk.
> - Using the alternate assembly area (HEEC/EOF area) for the ERO and responding onsite personnel. (Security Event scenario/pager code, per PEP-310)
> - Developing specific PA announcements to be consistent with Security "Take Cover" announcements and actions.

8. If an **Unusual Event**, direct the EC to perform per PEP-310, Att. 6 "Notification of Key ERO Personnel" or manually per Att.8, Part A - Unusual Event Notification of Selected Personnel with a Dialogic Failure. If a Security Event is in progress, then determine if Key ERO personnel are to report to the normal facilities or the alternate facilities. If it is desired for Key ERO personnel to report to normal facilities, then direct the EC to use the Non-Security Event codes in PEP-310, Attachment 6 or 7. ..... _____

9. If **Alert or higher** (optional at Unusual Event), direct EC to perform ERO Activation per PEP-310, Att. 6. If a Security Event is in progress, then determine if ERO is to report to its normal facilities or its alternate facilities. If it is desired for the ERO is to report to normal facilities, then direct the EC to use the Non-Security Event codes in PEP-310, Attachment 6 or 7..... _____

10. If **General Emergency**, determine Protective Action Recommendations (PARs) per PEP-110, Section 4.2. ..... _____

11. Prepare State and County Emergency Notification Form (ENF) (refer to the guidelines in PEP-310, Att. 12, as necessary) by:

    a. Using OSI/PI to prepare an automated version, or

    b. Preparing an electronic equivalent of the manual form (PEP-310, Att. 9) or hand writing a paper copy of Manual Notification Form ..... _____

12. Direct EC to complete State and County notifications per applicable method (PEP-310, Att. 10, for OSI/PI or PEP-310, Att. 11, for Manual)..... _____

13. If Site Area or General Emergency, ensure performance of accountability per PEP-350 Section 4.3. ..... _____

(Initial Actions are continued on the next page)

Initial Actions (page 3 of 3)

14. Log SEC-CR related activities within the S-SO Log. Examples of items to be included:
    - Times of major events (change in event classification, status of fission product barriers)
    - Specific mitigating actions taken
    - Authorization for protective actions or exemptions ....._____

15. Confer with USCO to maintain awareness of plant conditions. Begin rapid shutdown in accordance with AOP-038 if any fission product barrier is breached or jeopardized. ....._____

> **CAUTION**
>
> Initial notification of the NRC is to occur as soon as possible (but not to exceed one hour) following the declaration of an emergency or a change in the classification level.

16. Determine method and content of NRC event declaration notification (reference PEP-310 Section 4.5 if needed):
    a. State and County notification form, or
    b. If time permits, AP-617, Att.7....._____

17. Direct EC to notify NRC of event declaration via method determined in step 16. ....._____

> **NOTE:** ERDS can be activated from any ERFIS terminal in the MCR, TSC, EOF or the ERFIS computer room.

18. Ensure the Emergency Response Data System (ERDS) is activated within 1 hour of an **Alert** or higher classification.
    a. Enter turn-on-code ERDS and depress "RETURN" button. ....._____
    b. After the ERDS menu appears, click/activate the "START ERDS" button....._____
    c. Within 5 minutes, ERDS activation should be complete as indicated by:
        - The MCR ERFIS printer provides as "ERDS TASK HAS SUCCESSFULLY LINKED WITH THE NRC" printed message
        - ERDS = NORMAL displayed at the bottom center of ERFIS screens
    d. If ERDS does not display this message or activate then attempt to reestablish a connection or request another facility activate. ....._____
    e. If ERDS connection is terminated then wait 15 minutes and attempt to reestablish a connection or request another facility to wait 15 minutes and reestablish a connection. ....._____

19. Proceed to Responsibility/Activity section of this checklist. ....._____

Responsibility/Activity (steps may be performed in any order and more than once)

20. If any radiation monitor in EAL Table 4 Dose Projection Monitors (PEP-110) is in high alarm, direct the STA to perform a dose assessment per PEP-340. ..... _____

21. As Conditions Change or Data Becomes Available:

    a. Monitor and evaluate EALs whenever:

        1) Plant or radiological conditions change significantly, or.

        2) Dose projection and/or field monitoring data are available. ..... _____

    b. If applicable, **upgrade** the Emergency Classification level ..... _____

NOTE:	For Alert or higher classifications, unless the conditions causing emergency action levels are quickly resolved (less than 30 minutes), downgrading should not occur until after the TSC and EOF are activated.

    c. If applicable, **downgrade** the Emergency Classification per PEP-110, Section 4.4 ..... _____

    d. If applicable, **terminate** the emergency as follows

        1) For an Unusual Event:
            - When the situation is under control, and
            - Following consultation with appropriate Progress Energy personnel,
            - Declare the emergency terminated ..... _____

        2) For other event classifications, which quickly abate (within approximately 30 minutes), terminate the emergency per PEP-110, Section 4.5..... _____

        3) Perform applicable steps in the remainder of this attachment ..... _____

    e. Brief the MCR Crew on any changes in event classification ..... _____

    f. If event classification has changed, direct Emergency Communicator (EC) to coordinate with USCO and brief plant site via PA system per PEP-230, Att. 3.. _____

    g. If required (**upgrade from an Unusual Event**), direct EC to perform ERO Activation per PEP-310, Att. 6. ..... _____

    h. If in a **General Emergency**, reevaluate the adequacy of PARs when any of the following change:
        - Plant conditions
        - Dose projection results
        - Meteorological conditions
        - Field monitoring data ..... _____

    i. Confer with USCO to maintain cognizance of plant conditions ..... _____

Responsibility/Activity (steps may be performed in any order and more than once)

22. If needed, direct the EC-CR to request offsite support (fire/ambulance/sheriff) per PEP-310 Att. 1. ..... _____

23. Perform State and County Notification Activities:

    a. Within 15 minutes of a classification change, or change in PARs, complete an initial notification as follows:

        1) Refer to the guidelines in PEP-310, Att. 12, as necessary

        2) Use OSI/PI to prepare an automated fax version, or

        3) Prepare an electronic equivalent of the manual form (PEP-310, Att. 9) or hand write a paper copy of Manual Notification Form ..... _____

        4) Direct EC to complete State and County notifications per applicable method (PEP-310, Att. 10, for OSI/PI or PEP-310, Att. 11, for Manual) ..... _____

    b. Within 60 minutes of the last notification, complete follow-up notifications as follows:

        1) Refer to the guidelines in PEP-310, Att. 12, as necessary

        2) Use OSI/PI to prepare an automated fax version, or

        3) Prepare an electronic equivalent of the manual form (PEP-310, Att. 9) or hand write a paper copy of Manual Notification ..... _____

        4) Direct EC to complete State and County notifications per applicable method (PEP-310, Att. 10, for OSI/PI or PEP-310, Att. 11, for Manual) ..... _____

    c. If requested, consider relaxing follow-up notification periodicity for long lasting events. This requires universal concurrence from the State and County officials. ..... _____

Responsibility/Activity (steps may be performed in any order and more than once)

NOTE: If continuous communications have not been established with the NRC, follow-up notifications are required at least every 60 minutes.

24. Perform NRC Notification and communication activities. The NRC must be kept informed of:

    1) Changes in the status of the plant.

    2) Changes in off-site radiological effects.

    3) All information provided to the State and Counties.

    a. Determine method and content of NRC notifications (reference PEP-310 Section 4.5 if needed).

    - Use the State/County Notification for initial notification of event declarations, or
    - Use AP-617, Att. 7, to provide more detail (required for follow-up notifications)..... _____

    b. Direct EC to notify the NRC via method determined above

NOTE: ERDS can be activated from any ERFIS terminal in the MCR, TSC, EOF or the ERFIS computer room.

    c. If not previously required, ensure the Emergency Response Data System (ERDS) is activated at an **Alert** or higher classification in accordance with Step 18. ..... _____

Responsibility/Activity (steps may be performed in any order and more than once)

25. Onsite Protective Actions

a. Coordinate with the USCO to verify on-shift personnel status.

- Operations Personnel - MCR Area (Normally inside the ventilation envelope) ..... _____
- All other on-shift personnel - normally in the OSC ..... _____

b. If **Alert** or higher, verify Security implements site access controls ..... _____

c. If a radiological or hazardous material release is in progress, or anticipated:

> **NOTE**: Emergency Release is defined as ANY unplanned quantifiable discharge to the environment of radioactive effluent attributable to a declared emergency event.
>
> **NOTE**: Subsequent actuation of Safety Injection or Control Room Isolation due to high radiation or smoke at the control room outside air intake will require follow-up action to place the MCR HVAC back into the post-accident mode of operation.

1) Within 2 hours, verify CR Area Emergency Filtration is in service per OP-173, section 8.2 or section 8.3 as applicable. ..... _____

2) Verify Plant Computer and Communication Rooms Ventilation (SAS habitability) is aligned for operation with a CR Isolation signal per OP-163.01, Section 8.1 ..... _____

3) Use the Site Map on Sheet 12 of this attachment to aid in identification of affected areas..... _____

4) Direct HPs to perform habitability surveys in occupied areas ..... _____

5) Within 1 hour, determine if the administration of Potassium Iodide to control room personnel per PEP-330 is necessary. ..... _____

d. If restrictions or a ban on eating and drinking are needed

1) Ensure personnel on site are advised of the ban ..... _____

2) Obtain the four "CONTAMINATION CONTROL IN EFFECT, NO EATING or DRINKING" tent cards and the two magnetic placards and have one tent card placed on the STA, SSO, USCO & CO's desks and post a magnetic placard in the MCR and in the NLO area ..... _____

e. If conditions hazardous to personnel safety exist, initiate accountability per PEP-350, Section 4.3..... _____

Responsibility/Activity (steps may be performed in any order and more than once)

NOTE: At a Site Area or General Emergency classification level, accountability is required. Accountability may not be initiated immediately for security events.

f. If personnel are assembled in the Administrative Building, determine if protective actions or evacuation of these personnel are needed ..... _____

g. Authorize the administration of Potassium Iodide (KI) to Progress Energy emergency workers per PEP-330 as necessary. ..... _____

26. Additional Communications

a. Request one HP to report to the MCR to act as a liaison between the OSC and MCR once the OSC is staffed. ..... _____

b. If a spent fuel shipment is en-route to the site, notify the load Shipment Communicator or the Shipment Manager of the emergency declaration and classification level. ..... _____

c. Ensure the receiving hospital is notified of the transport of a contaminated injured person (the First Aid Team will obtain the designated treatment location from the rescue squad). ..... _____

d. Ensure the Emergency Radiation Monitoring radio channel is activated in the MCR (communication with Environmental Monitoring Teams). ..... _____

e. Refer to EPL-001 for telephone numbers and instructions on the use of Emergency Response Facility (ERF) communications systems. ..... _____

f. Refer press or public inquires to Progress Energy Corporate Communication Department personnel as per EPL-001, Attachment 3, Section 7. ..... _____

g. If contacted by the State and County emergency response personnel, brief them on plant conditions and actions taken. ..... _____

h. Request Federal and State assistance as necessary. ..... _____

i. Verify all offsite notifications transmitted from the MCR are faxed to the TSC and EOF ..... _____

j. If ERFIS is not available, refer to Plant Parameter Information Forms per PEP-310, Section 4.8. ..... _____

Responsibility/Activity (steps may be performed in any order and more than once)

27. Conduct Periodic Briefings

    a. Establish expectations for participation in periodic briefings. ..... _____

    b. If not actively involved in in-plant tasks, direct Operations Personnel to be in MCR for briefings. ..... _____

    c. Utilize PEP-230, Att. 4, as guidance for conduct of briefings ..... _____

28. Mitigating and Monitoring Actions

    a. Direct the First Aid Team to initiate search and rescue for missing persons per PEP-350, Section 4.4. ..... _____

    b. Authorize Progress Energy emergency worker exposures **> 5 Rem TEDE** or entry into fields **> 25 Rem/Hr** per PEP-330, Att. 1, as necessary. ..... _____

NOTE: Emergency Release is defined as ANY unplanned quantifiable discharge to the environment of radioactive effluent attributable to a declared emergency event.

    c. If a radiological release is in progress, or anticipated, dispatch Environmental Monitoring Teams to implement PEP-330, Section 4.6 ..... _____

    d. Verify on-shift resources (Radiation Protection, Chemistry, Maintenance, and Operations) are providing support for in-plant mitigation activities. ..... _____

    e. Verify personnel being sent into the plant or around the site are appropriately briefed prior to being dispatched. ..... _____

    f. Verify dispatched personnel are debriefed upon return ..... _____

    g. Direct deviations from License Conditions or Technical Specifications per PRO-NGGC-0200, Section 9.3. ..... _____

Responsibility/Activity (steps may be performed in any order and more than once)

29. Activation of Emergency Response Facilities (ERFs)

NOTE: Specific emergency response functions may be given to TSC or EOF personnel prior to actual facility activation (i.e. dose assessment, NRC communications, and so forth) as deemed prudent.

NOTE: The SEC-CR must maintain overall command and control of the ERO, including the non-delegable responsibilities, until formal relief occurs.

NOTE: During a security threat, declaration using the alternate assembly areas (HEEC/EOF) for onsite ERO personnel coordination of turnover items may be delayed.

a. Prepare an Event Information Worksheet, PEP-110, Att. 4, for use in briefing the Emergency Response Facilities ..... _____

b. Verify that necessary plant information is available to the TSC and EOF..... _____

c. Normally, the TSC establishes a conference call with the OSC, EOF and MCR to conduct a pre-activation briefing for the oncoming ERO.

   1. When the OSC, TSC and EOF are ready, and MCR activities allow, use PEP-110, Att. 4, "Event Information Worksheet" as a briefing guide. ..... _____

   2. Synchronize facility clocks (use ERFIS time)..... _____

d. Formally turn over the following responsibilities to the SEC-TSC:

   1) Emergency classification ..... _____

   2) Onsite protective actions ..... _____

   3) Coordination of in-plant teams (other than Operations)..... _____

   4) NRC notifications and communications ..... _____

   5) If not already performed, ERDS activation ..... _____

Responsibility/Activity (steps may be performed in any order and more than once)

e. Formally turn over the following responsibilities to the ERM (EOF):
   1) State and County notifications ..... _____
   2) Protective Action Recommendations ..... _____
   3) Dose projection ..... _____
   4) Coordination of Environmental Monitoring Teams ..... _____
   5) Additional ERO augmentation ..... _____
   6) All additional offsite notifications ..... _____

30. Take a turnover from the Unit SCO and reassume coordination and supervision of MCR activities ..... _____

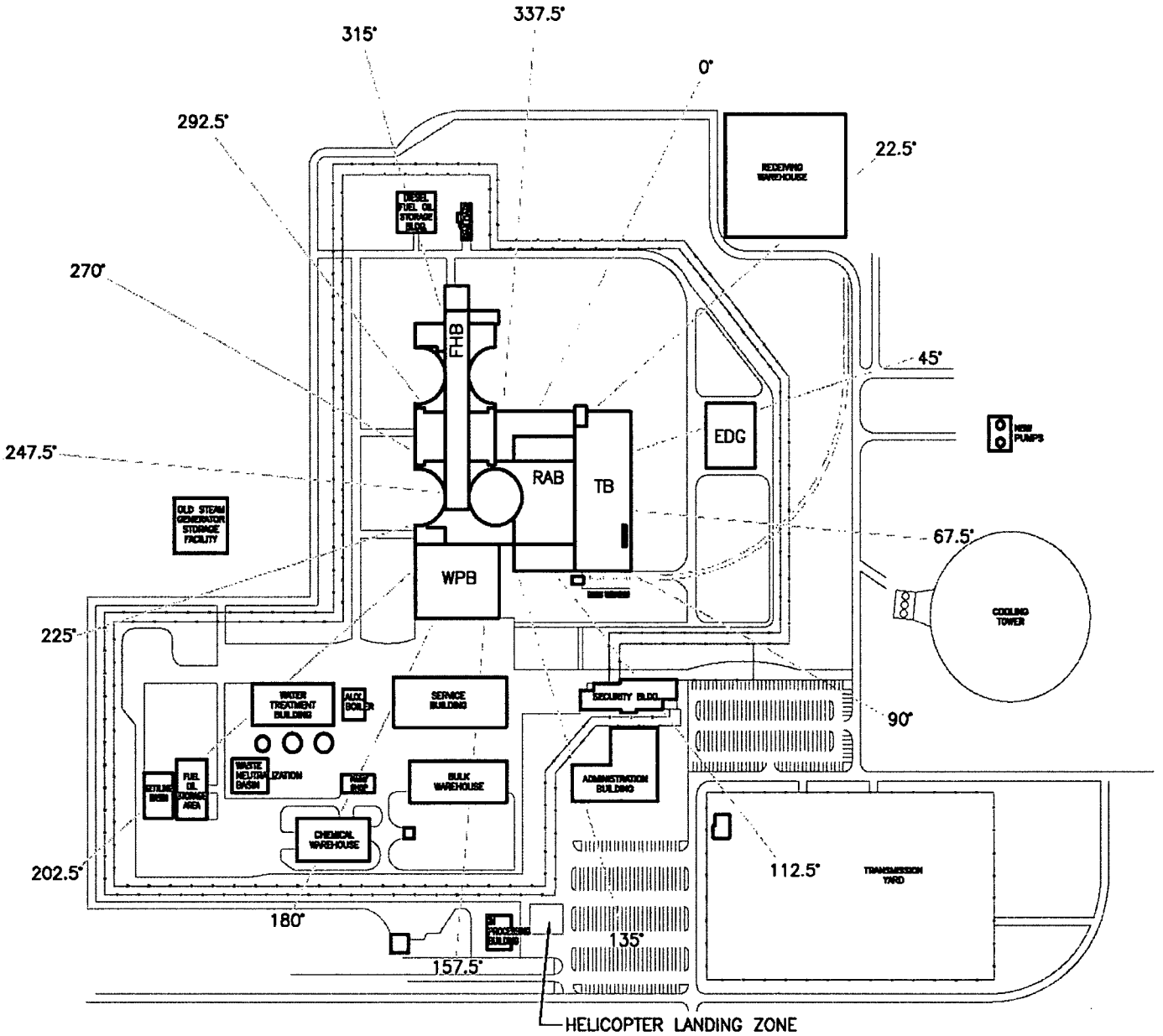
31. Inform MCR personnel when temporarily leaving the MCR (such as to the restroom).
    a. Designate an individual to answer the phones while away. ..... _____
    b. Upon return, obtain a briefing on any events which have occurred while away from the work area. ..... _____

32. Perform a formal relief of the position when permanently relieving another SEC-CR.
    a. Review the S-SO and Emergency Communicator logs ..... _____
    b. Obtain a briefing on the emergency and any actions that have been completed or are in progress ..... _____
    c. Initiate and maintain a new copy of PEP-230, Att. 1 ..... _____
    d. Ensure that MCR personnel are aware of the change. ..... _____

33. Upon termination of the emergency:
    a. Print out/copy S-SO log and prepare related emergency records ..... _____
    b. Assemble all logs and records from the MCR and forward to Emergency Preparedness ..... _____
    c. Copy and replenish the contents of the SEC position notebook ..... _____
    d. Inventory MCR Emergency Equipment per EPM-420 ..... _____
    e. Verify MCR is restored and ready to respond to an emergency ..... _____

SITE MAP

HNP SITE MAP



Progress Energy
May 2005

Initial Actions (page 1 of 2)

NOTE: Position Function: Direct and supervise plant MCR operations and immediate response activities.

NOTE: The POD position is formally assumed upon activation of the TSC & EOF. TSC & EOF is expected to activate within 60 minutes from the time the notification was initiated.

1. Upon arrival in the MCR, notify the SEC-CR (S-SO) that you are present..... _____

2. Prepare to assume the position of Plant Operations Director.

   a. Initiate a log of activities (last page of this checklist). Examples of items to be included:

      - Times of major events (change in event classification, status of fission product barriers)
      - Specific mitigating actions taken
      - Corrections made by drawing a single line through and initialing and dating the incorrect entry ..... _____

   b. Determine the Nature and Extent of the Event ..... _____

   c. Determine if any personnel have been dispatched from the MCR and their status. ..... _____

   d. Obtain status and readiness of Fire Brigade, and First Aid personnel.

      1) Determine if adequate personnel are available to fulfill these functions. ..... _____

      2) Determine the applicable radio channels or (mobile) telephone numbers for the team leaders and members..... _____

   e. Consult with the SEC-CR regarding the prioritization of actions in progress, planned, or needed. ..... _____

   f. Ensure telephone and radio communications are operational. ..... _____

   g. Continue with preparations to assume POD on the next page ..... _____

(Initial Actions are continued on the next page)

Initial Actions (page 2 of 2)

h. Coordinate with the TSC-SRO to establish the Operations Mitigation Line (Cordless phone for this is located in right hand drawer of Emergency Communicator desk). ..... _____

i. Assist SEC-CR with preparation of Event Information Worksheet, PEP-110, Att. 4, for use in briefing the Emergency Response Facilities. ..... _____

j. Contact arriving SEC-TSC to coordinate timing of ERF briefing via conference call and ERF activation. ..... _____

3. If applicable, verify accountability is performed for operations personnel per PEP-350, Section 4.3. The POD is accountable for ensuring all members of the shift are accounted for. If any shift members are dispatched from the control room the POD must be informed. The POD will confer with the control room HP to ensure radiological protective measures are being met.

   a. Report any missing personnel to the Security Director. ..... _____

   b. Maintain accountability of ALL personnel assigned to, or dispatched from, the MCR. ..... _____

4. Once the OSC is staffed, an HP will be dispatched to the MCR. The primary purpose of this HP is to be a liaison between the OSC and MCR to provide guidance to the POD and SEC – CR on changing radiological conditions and protective measures that must be taken for people being sent in the plant.

   a. Coordinate with the HP to monitor RM-11 and inform POD and SSO of any changing radiological conditions. ..... _____

   b. Confer with the Control Room HP or OSC to ensure radiological protective measures are being met for personnel sent into the plant. ..... _____

   c. Coordinate with the HP to monitor MCR habitability. ..... _____

5. Formally assume the position of POD when the TSC and EOF are activated. ..... _____

6. Proceed to Responsibility/Activity section of this checklist. ..... _____

7. Monitor and evaluate plant conditions:

   a. Analyze plant parameters for trends, begin rapid shutdown in accordance with AOP-038 if any fission product barrier is breached or jeopardized. ..... _____

   b. Recommend changes to emergency classifications and identify any EAL conditions that are exceeded (per PEP-110) to the SEC-TSC. ..... _____

   c. Coordinate with the TSC for prioritization of actions. ..... _____

   d. Request any necessary engineering support. ..... _____

Responsibility/Activity (steps may be performed in any order and more than once)

8. Support the activities of MCR personnel:

   a. Ensure an adequate MCR staff is available. ..... _____

   b. Ensure immediate corrective actions are carried out by MCR personnel..... _____

9. Direct fire response activities:

   a. Ensure fire alarms are sounded and the Fire Brigade is mustered. ..... _____

   b. Ensure Fire Brigade actions are performed in accordance with the Fire Plan and Fire Area Pre-plans. ..... _____

   c. Ensure Fire Brigade is briefed on hazards and radiological conditions..... _____

   d. Monitor Fire Brigade communications. ..... _____

   e. Alert SEC-TSC of requests for additional on-site personnel or equipment. ..... _____

> **NOTE:** The MCR maintains the responsibility for contacting Offsite Support Organizations.

   f. Perform, or direct, requests for offsite support (fire/ambulance/sheriff) per PEP-310, Att. 1. ..... _____

   g. Notify the SEC-TSC of requests for offsite support..... _____

Responsibility/Activity (steps may be performed in any order and more than once)

10. Organize and direct rescue operations of injured personnel

    a. Assemble the Search and Rescue Team..... _____

    b. Consult with the Radiological Control Director (RCD) in the TSC to determine whether an ERWP is required..... _____

    c. Ensure radiological conditions are provided to teams being dispatched..... _____

    d. Ensure First Aid/Search and Rescue Teams are prepared:

        1) Instruct the Search and Rescue Team Leader to perform operations in accordance with guidance in PEP-350, Section 4.4. ..... _____

        2) Dispatch First Aid/Search and Rescue Teams to the scene of the injury..... _____

        3) Monitor First Aid/Search and Rescue communications. ..... _____

        4) Notify the appropriate director of requests for additional personnel or equipment..... _____

> **NOTE:** The MCR maintains the responsibility for contacting Immediate Response Organizations.

    e. Perform, or direct, requests for offsite support (fire/ambulance/sheriff) per PEP-310, Att. 1. ..... _____

    f. Notify the SEC-TSC of requests for offsite assistance..... _____

    g. Coordinate with the SEC-TSC to identify an individual to accompany injured personnel to the treatment center. ..... _____

    h. Direct the Security Director to provide support when transporting an injured person by helicopter..... _____

    i. If an injured individual requires transportation off site and is contaminated:

        1) Ensure the Communications Director and Communications Manager are informed ..... _____

        2) Ensure hospitals are notified, as soon as possible, of the expected arrival of a contaminated injured patient. ..... _____

Responsibility/Activity (steps may be performed in any order and more than once)

NOTE: Emergency Release is defined as ANY unplanned quantifiable discharge to the environment of radioactive effluent attributable to a declared emergency event.

11. If a radiological release is in progress, or anticipated (subsequent actuation of SI or Control Room Isolation will require performance of these steps again):

    a. Within 2 hours, verify MCR Area Emergency Filtration is in service per OP-173, Section 8.2 or 8.3 as applicable. ..... _____

    b. Verify Plant Computer and Communication Rooms Ventilation (SAS habitability) is aligned for operation with a CR Isolation signal per OP-163.01, Section 8.1. ..... _____

12. Implement operational aspects of Severe Accident Management Guideline (SAMG) strategies developed by the TSC as applicable. ..... _____

13. Conduct Periodic Briefings

    a. Establish expectations for participation in periodic briefings. ..... _____

    b. If not actively involved in in-plant tasks, direct Operations Personnel to be in MCR for briefings. ..... _____

    c. Utilize PEP-230, Att. 4, as guidance for conduct of briefings ..... _____

14. Represent the MCR in periodic inter-facility briefings using PEP-110, Att. 4 ..... _____

15. Refer to EPL-001 for telephone numbers and instructions on the use of Emergency Response Facility (ERF) communications systems. ..... _____

16. Evaluate the need for deviations from License Conditions or Technical Specifications per PRO-NGGC-0200, Section 9.3. ..... _____

17. Process temporary procedure changes per PRO-NGGC-0204 as needed. ..... _____

18. Coordinate operations shift turnover with the Admin & Logistics Manager. ..... _____

19. Refer press or public inquires to Progress Energy Public Information personnel. ..... _____

Responsibility/Activity (steps may be performed in any order and more than once)

20. Inform MCR personnel when temporarily leaving the MCR (such as to the restroom).
    a. Designate an individual to answer the phones while away. ..... _____
    b. Upon return, obtain a briefing on any events which have occurred while away from the work area. ..... _____
21. Perform a formal relief when permanently relieving another POD.
    a. Review the POD, S-SO and Emergency Communicator logs. ..... _____
    b. Obtain a briefing on the emergency and any actions that have been completed or are in progress ..... _____
    c. Ensure turnover is provided to an individual qualified to perform the duties of POD. ..... _____
    d. Initiate and maintain a new copy of PEP-230, Att. 2, including the log ..... _____
    e. Ensure the off-going POD completes log sheets and related emergency records
       - Logs are reviewed for completeness and accuracy
       - All log sheets include date(s) and page numbers
       - Final page of the logs contains printed name and signature ..... _____
    f. Ensure that MCR personnel are aware of the change. ..... _____
22. Upon termination of the emergency:
    a. Complete log sheets and related emergency records:
       - Review logs for completeness and accuracy, including date(s) and page numbers
       - Print your name and sign the final page of the logs ..... _____
    b. Assemble all logs and records from the MCR and forward to Emergency Preparedness ..... _____
    c. Copy and replenish the contents of the POD position notebook ..... _____
    d. Inventory MCR Emergency Equipment per EPM-420 ..... _____
    e. Verify MCR is restored and ready to respond to an emergency ..... _____

Attachment 2 - PLANT OPERATIONS DIRECTOR

Sheet 7 of 7

Upon relief, or termination of the emergency, check the log for completeness, then print and sign your name in the comments section

Location = MCR	DATE:	PAGE _____ OF _____
Time	**Comments**	
Obtain and attach copies of PEP-230, Att. 5, as needed for log continuation		

Attachment 3-EMERGENCY COMMUNICATOR - CONTROL ROOM

Initial Actions (page 1 of 2)

1. Upon arrival in the MCR, notify the SEC-CR (S-SO) that you are present and request direction/priorities. ..... _____

2. Initiate a log (last page of this checklist). ..... _____

3. If directed to request offsite support (fire/ambulance/sheriff), initiate request per PEP-310, Att. 1. ..... _____

4. When directed, coordinate with USCO and brief plant site via PA system per the applicable section from sheet 3, 4 or 5 of this form. ..... _____

5. If directed, perform "Unusual Event Notifications Checklist" PEP-310, Att. 2 or manually per PEP-310 Att. 8, Part "A" ..... _____

6. If directed, activate the Emergency Response Organization per PEP-310, Att. 6. ..... _____

7. When directed, perform Initial State and County notification for either:

   a. OSI/PI automated Fax method per PEP-310, Att. 10 -or -

   b. Manual method per PEP-310, Att. 11 ..... _____

Initial Actions (page 2 of 2)

NOTE: The NRC automatically records communications on ENS.

NOTE: Initial communications may be interrupted by patch-ins and/or requests to repeat information.

NOTE: The EAL reference numbers (X-Y-Z) are an aid to the local State/Counties. The NRC has no cross-reference to explain these numbers

8. When directed, notify NRC of event declaration
   a. Contact the NRC Headquarters Operations Officer (HOO) at the NRC Incident Response Center by performing the following:
      1) On the ENS telephone, call one of the numbers listed on the phone, or
      2) If the ENS is not operable, use a normal telephone (the numbers are listed on ENS phone and in EPL-001). ..... _____
   b. When the NRC Headquarters Operations Officer responds, say: "**THIS IS THE HARRIS NUCLEAR PLANT**." and provide the emergency information provided by the SEC. ..... _____
   c. Inform the NRC that you are signing off. (If requested to stay on and leave the line open, notify the SEC)..... _____
9. Proceed to Responsibility/Activity section of this checklist. ..... _____

PA Announcement Guidelines

CAUTION

During a security event, it may be advisable **NOT** to sound an alarm or make a PA announcement. The following script may not be appropriate for security threat events.

☐ Unusual Event:

- Make the following announcement over the PA system:

  "Attention all personnel; attention all personnel: An Unusual Event has been declared due (_____).
  Brief description of initiating event

  All members of the ERO standby for further instructions.

  All other personnel continue with your present duties."

- If there is a localized emergency (for example, high radiation, fire), announce its type and location and instruct personnel to stand clear of this area.

- Repeat the PA Message(s).

☐ Alert:

- Sound the Site Evacuation Alarm for 15 seconds

- Make the following announcement over the PA system:

  "Attention all personnel; attention all personnel: An Alert has been declared due to (_____).
  Brief description of initiating event

  All members of the ERO report to your designated emergency response facility.

  All other HNP personnel exit the Protected Area and report to the Admin Building 2nd floor conference room area, and await instructions.

  All visitors, all nonessential contractor personnel, all declared pregnant females and all handicapped personnel please leave the site at this time."

- If there is a localized emergency (for example, high radiation, fire), announce its type and location and instruct personnel to stand clear of this area.

- If there is a potential for an airborne radiological release, consider announcing that there will be no eating, drinking, or smoking until further notice.

- Repeat the Alarm and PA Message(s).

PA Announcement Guidelines

CAUTION

During a security event, it may be advisable **NOT** to sound an alarm or make a PA announcement. Accountability may be delayed during security events. The following script may not be appropriate for security threat events.

Consider radiological conditions when preparing to evacuate personnel. If high dose rates will be encountered it may be better to shelter non-essential personnel onsite.

☐ Site Area Emergency:

- Sound the Site Evacuation Alarm for 15 seconds
- Make **one of** the following announcements over the PA system:

  ☐a. If entering from no event or an Unusual Event:

  "Attention all personnel; attention all personnel: A Site Area Emergency has been declared due to (_____).

  Brief description of initiating event

  All ERO members report to your designated emergency response facility. All other personnel exit the Protected Area and leave the site. Security, initiate Accountability."

  -or-

  ☐b. If upgrading from an Alert:

  "Attention all personnel, Attention all personnel: A Site Area Emergency has been declared due to (_____).

  Brief description of initiating event

  All personnel who are not part of the ERO exit the Protected Area and leave the site. Security, initiate Accountability."

- If there is a localized emergency (for example, high radiation, fire), announce its type and location and instruct personnel to stand clear of this area.
- If there is a potential for an airborne radiological release, consider announcing that there will be no eating, drinking, or smoking until further notice.
- Repeat the Alarm and PA Message(s).

PA Announcement Guidelines

CAUTION

During a security event, it may be advisable **NOT** to sound an alarm or make a PA announcement. Accountability may be delayed during security events. The following script may not be appropriate for security threat events.

Consider radiological conditions when preparing to evacuate personnel. If high dose rates will be encountered it may be better to shelter non-essential personnel onsite.

☐ **General Emergency:**

- Sound the Site Evacuation Alarm for 15 seconds
- Make **one of** the following announcements over the PA system:

☐a. If entering from an Alert or lower:

"Attention all personnel; attention all personnel: A General Emergency has been declared due to (_____).

Brief description of initiating event

All members of the ERO report to your designated emergency response facility. All other personnel exit the Protected Area and leave the site. Security, initiate accountability (If required or applicable; There will be no eating, drinking, or smoking until further notice)."

-or-

☐b. If upgrading from a Site Area Emergency:

"Attention all personnel, Attention all personnel: A General Emergency has been declared due to (_____).

Brief description of initiating event

(If required or applicable, there will be no eating, drinking, or smoking until further notice.)"

- If there is a localized emergency (for example, high radiation, fire), announce its type and location and instruct personnel to stand clear of this area.
- Repeat the Alarm and PA Message(s).

Responsibility/Activity (steps may be performed in any order and more than once)

10. If directed to request offsite support (fire/ambulance/sheriff), initiate request per PEP-310, Att. 1 ..... _____

11. If directed, (emergency classification has changed), coordinate with USCO and brief plant site using PA Announcement Guidelines. ..... _____

12. If directed, (upgrade from an Unusual Event), activate the Emergency Response Organization per PEP-310, Att. 6..... _____

13. When directed, perform State and County Notification activities:

    a. Within 15 minutes of a classification change, or change in PARs, complete an initial notification as follows:

        1) OSI/PI automated Fax method per PEP-310, Att. 10 -**or** -

        2) Manual method per PEP-310, Att. 11 ..... _____

        3) Ensure the State and County representatives clearly understand the notification message prior to ending the telephone conversation. ..... _____

        4) Record and obtain answers to questions from offsite authorities involving the notifications..... _____

    b. Within 60 minutes of the last notification, complete follow-up notifications per applicable section of PEP-310

        1) OSI/PI automated Fax method per PEP-310, Att. 10 **-or -**

        2) Manual method per PEP-310, Att. 11 ..... _____

        3) Ensure the State and County representatives clearly understand the notification message prior to ending the telephone conversation. ..... _____

        4) Record and obtain answers to questions from offsite authorities involving the notifications..... _____

Responsibility/Activity (steps may be performed in any order and more than once)

NOTE: The NRC automatically records communications on ENS.

NOTE: Initial communications may be interrupted by patch-ins and/or requests to repeat information.

NOTE: If continuous communications have not been established with the NRC, follow-up notifications are required at least every 60 minutes (AP-617, Att. 7, is required for follow-up notifications)

NOTE: The EAL reference numbers (X-Y-Z) are an aid to the local State/Counties. The NRC has no cross-reference to explain these numbers

14. When directed, notify NRC of event declaration

    a. Contact the NRC Headquarters Operations Officer (HOO) at the NRC Incident Response Center by performing the following:

        1) On the ENS telephone, call one of the numbers listed on the phone, or

        2) If the ENS is not operable, use a normal telephone (the numbers are listed on ENS phone and in EPL-001). ..... _____

    b. When the NRC Headquarters Operations Officer (HOO) responds, say: "THIS IS THE HARRIS NUCLEAR PLANT." and provide the emergency information. _____

    c. Inform the NRC that you are signing off. (If requested to stay on and leave the line open, notify the SEC). ..... _____

15. Refer to EPL-001 for telephone numbers and instructions on the use of Emergency Response Facility (ERF) communications systems. ..... _____

16. Ensure all offsite notifications transmitted from the MCR are faxed to the TSC and EOF. ..... _____

17. Refer press or public inquires to Progress Energy Corporate Communications Department, as per EPL-001, Attachment 3, Section 7. ..... _____

18. Inform SEC when temporarily leaving the MCR (such as to the restroom).

    a. Designate an individual to answer the phones while away. ..... _____

    b. Upon return, obtain a briefing on any events which have occurred while away from the work area. ..... _____

Responsibility/Activity (steps may be performed in any order and more than once)

19. Perform a formal relief when permanently relieving another EC-CR.

    a. Review the Emergency Communicator logs. ..... _____

    b. Obtain a briefing on the emergency and any actions that have been completed or are in progress ..... _____

    c. Ensure turnover is provided to an individual qualified to perform the duties of EC-CR..... _____

    d. Initiate and maintain a new copy of PEP-230, Att. 3, including the log ..... _____

    e. Ensure the off-going EC-CR completes log sheets and related emergency records

       - Logs are reviewed for completeness and accuracy
       - All log sheets include date(s) and page numbers
       - Final page of the logs contains printed name and signature ..... _____

    f. Ensure that MCR personnel are aware of the change. ..... _____

20. Activation of Emergency Response Facilities (ERFs)

    a. Transmit Plant Parameter Information Forms to the TSC and EOF if ERFIS and OSI/PI is not available..... _____

    b. Contact the EC-EOF by phone at 8-771-3681 to ensure EC-EOF has initial Emergency Notification Form (Message 1) or provide information from the initial Emergency Notification Form. ..... _____

    c. Respond to any other inquiries for the TSC and EOF staff in preparation for turnover of communications responsibilities. ..... _____

    d. If relief is being provided by the EC-EOF, then complete log sheets and related emergency records:

       - Logs are reviewed for completeness and accuracy
       - All log sheets include date(s) and page numbers
       - Final page of the logs contains printed name and signature ..... _____

(Step continued on next page)

Responsibility/Activity (steps may be performed in any order and more than once)

e. Assemble all logs and records and provide to the S-SO (SEC-MCR) or POD... _____

f. Copy and replenish the contents of the EC-CR position notebook. ..... _____

g. Assist with inventory of MCR Emergency Equipment per EPM-420 as directed. ..... _____

21. For termination of the emergency without ERF activation, perform bulleted items in step 20.d and Step 20 e-f above..... _____

Attachment 3-EMERGENCY COMMUNICATOR - CONTROL ROOM

Sheet 10 of 10

Upon relief, or termination of the emergency, check the log for completeness, then print and sign your name in the comments section.

Location = MCR	DATE:	PAGE _____ OF _____

Time	Comments

Attachment 4 - CONTROL ROOM EMERGENCY BRIEFING GUIDE

Sheet 1 of 1

DATE: _____ **TIME:** _____

CONTROL ROOM	
1) **EALS:** • Existing EAL Initiating Conditions • Potential Initiating Conditions	**NOTES:**
2) **FPB:** • Jeopardy/breached • Potential	
3) **Plant Conditions:** • Status • Potential • Control Room Habitability	
4) **Equipment** • OOS • Equipment Needs • Personnel Needs	
IN-PLANT AND ON-SITE	
1) **Activities** • Personnel • Location • Priority • Expected Completion Time	**NOTES:**
2) **Hazards / Safety Issues** • Radiological Conditions • Release / Wind Direction • Chemical / other	
OTHER ITEMS APPLICABLE PRIOR TO ERF ACTIVATION AND THEIR ASSUMPTION OF TASKS	
1) **Communications** • State/County • NRC • Media, Other	**NOTES:**
2) **Radiological** • KI Issuance • Dose Assessment • Environmental Monitoring Teams	

Set Expectations:

- Anticipated Plant Conditions
- Critical MCR Activities
- Critical In-Field Activities

Other Areas of focus:

■ ■ ■ "Next Briefing at _____. This is the end of Briefing." ■ ■ ■

Attachment 5 - MCR EMERGENCY LOG CONTINUATION

Sheet 1 of 1

☐ POD ☐ EC	DATE:	PAGE _____ OF _____

Time	Comments

Attachment 6 – ACCELERATED CALL TO NRC FOR SECURITY EVENTS

Sheet 1 of 1

1. SSO - Complete Steps 2-4 of this Attachment and direct the Emergency Communicator or other Control Room personnel to complete steps 5-8 (goal of within 15 minutes) using this completed Attachment 6. ....._____

2. Circle the applicable emergency classification information, if determined: ....._____

"The Harris Nuclear Plant has declared a(n)...."

Unusual Event	**Alert**	**Site Area Emergency**	**General Emergency**
Emergency Event Not Determined			

EAL # (if determined) _____

3. Continue with, "**The attack is an armed assault by...**" ....._____

   LAND **WATER** **AIRCRAFT** (SSO circle one):

4. Continue with, "**The attack is**..." ....._____

   IMMINENT **IN PROGRESS** **REPELLED** (SSO circle one)

R 5.3.12 5. Contact the NRC Headquarters Operations Officer (HOO) at the NRC Incident Response Center by performing the following: ....._____

   a. On the ENS telephone, call one of the numbers listed on the phone, **or**

   b. If the ENS is not operable, use a normal telephone (the numbers are listed on ENS phone).

6. When the NRC Headquarters Operations Officer (HOO) responds, say, **"This is the Harris Nuclear Plant reporting a Security Event."** ....._____

> **NOTE:** After communication to the NRC of the information provided in step 7 has been confirmed, hang up the phone. Do not answer any other questions.

7. Provide only the bolded information and the emergency information in Steps 2-4 of this attachment that has been circled by the SSO. ....._____

8. After reporting this information to the NRC, HANG UP THE PHONE and continue with your other applicable duties. ....._____

Revision Summary PEP-230 Revision 14	
Section	**Description of Change(s):**
All	Various formatting changes and corrections. (Editorial)
5.3	Added "NRC Regulatory Issue Summary 2004-15, Supplement 1, Emergency Preparedness Issues: Post-9/11".
Attachment 1	Added NOTE prior to Step 2 to maintain continuous communications to allow NRC to provide guidance and additional information concerning an airborne threat that may affect response actions if notified of an airborne threat by the NRC. NRC RIS 2004-15, Supplement 1. Added to Steps 8 & 9 wording that if a Security Event is in progress, then the SSO may determine if ERO is to report to its normal facilities or its alternate facilities and direct the EC to notify members of the ERO accordingly. PRR 00166349 Added prior to Step 16 a CAUTION statement concerning initial notification of the NRC following declaration of an emergency or a change in classification level. PRR 00206236 Added to Step 18 a step instructing that if ERDS is terminated after activation then wait 15 minutes before attempting to reestablish a connection. PRR 00205014, CORR 00201891 Added to Step 24c, "in accordance with Step 18" for clarification. (Editorial) Corrected typographical errors (typo) throughout referencing incorrect sections in PEP-350. PRR 00207419, 00208417 Removed specific turnover items from Step 29 ("Plant and recent activities, Location of in-plant teams/personnel, Environmental Monitoring Team activities, Any applicable incomplete items from previous pages of this checklist and Any assistance that is needed") and placed them on PEP-110, Att. 4, "Event Information Worksheet" PRR 00202748, NTM 00204767 Added to step 26f, "Department as per EPL-001, Attachment 3, Section 7" for clarification. (Editorial)

Revision Summary PEP-230 Revision 14 (continued)	
Section	**Description of Change(s):**
Attachment 2	Added NOTE prior to Step 1 that TSC & EOF is expected to activate (and POD assumes duties) within 60 minutes from the time notification is initiated. PRR 00170525 Added to step 4, steps to guide POD interactions with HP sent to MCR from the OSC. PRR 00170525 In Steps 3 & 4, changed "direct" to "confer" and "coordinate" as the POD does not direct activities of MCR personnel. PRR 00209764 (Editorial) Deleted Step 9 concerning accountability as it is a duplicate of Step 3. (Editorial)
Attachment 3	In Step 5, corrected typo referring to Public Address announcements. PRR 00204904 In Step 11, changed "via PA system per sheet 2, 3 or 4" to "using PA Announcement Guidelines" for better clarification. (Editorial) In Step 17, updated title of Site Communications to match EPL-001. (Editorial) Added to step 20, direction to contact the EC-EOF by phone at extension 8-771-3681 to ensure EC-EOF has information on the initial Emergency Notification Form (Message 1). PRR 00184885 Corrected typo in step 21. (Editorial)
Attachment 6	Added NOTE for clarification to confirm communication with NRC prior to hanging up phone for accelerated call to the NRC.

Progress Energy	I INFORMATION USE

HARRIS NUCLEAR PLANT

PLANT OPERATING MANUAL

VOLUME 2

PART 5

PROCEDURE TYPE: Plant Emergency Procedure

NUMBER: **PEP-240**

TITLE: **Activation and Operation of the Technical Support Center**

Table of Contents

SECTION		PAGE
1.0	PURPOSE	3
2.0	INITIATING CONDITIONS	3
3.0	GENERAL	3
4.0	PROCEDURE STEPS	5
5.0	REFERENCES	6
6.0	DIAGRAMS/ATTACHMENTS	6
	Attachment 1: Site Emergency Coordinator-TSC Checklist	7
	Attachment 2: TSC Senior Reactor Operator Checklist	14
	Attachment 3: Technical Analysis Director Checklist	16
	Attachment 4: TSC AAT-Shift Technical Advisor Checklist	21
	Attachment 5: TSC AAT-Core Performance Engineer Checklist	22
	Attachment 6: TSC AAT-Mechanical, Electrical/I&C Engineers Checklist	23
	Attachment 7: TSC ERFIS Operator Checklist	24
	Attachment 8: Radiological Control Director Checklist	25
	Attachment 9: TSC HP Technician Checklist	29
	Attachment 10: Communications Director Checklist	35
	Attachment 11: Emergency Communicator-NRC Checklist	43
	Attachment 12: TSC Logkeeper Checklist	46
	Attachment 13: Security Director Checklist	47
	Attachment 14: TSC Telecom/Computer Support Checklist	51
	Attachment 15: SAMG Strategy Recommendations	52
	Attachment 16: ERFIS Operator Instructions	53
	Attachment 17: TSC Adminstrative Team Checklist	55
	Attachment 18: TSC Log	57

1.0 PURPOSE

This procedure specifies the actions taken by Emergency Response Organization (ERO) personnel who report to the Technical Support Center (TSC).

2.0 INITIATING CONDITIONS

1. An Alert or higher classification has been declared.

2. A decision has been made to activate the TSC.

3.0 GENERAL

1. Prior to activation, the SEC-MCR may assign support functions to the TSC as deemed necessary to relieve on-shift personnel.

2. The TSC must meet minimum staffing requirements for activation prior to the SEC-TSC relieving the SEC-MCR of his portion of emergency management responsibilities. Both the TSC and EOF will need to activate together.

   a. The activation time for minimum staffing positions in the TSC is 60 minutes from the time the notification was initiated.

3. If a position with an augmentation time requirement is not filled, a supervisory position may fulfill the responsibilities provided they are trained to perform the assigned activities of that position. For example: the Communications Director could perform the duties of the Emergency Communicator - NRC.

4. <u>Logkeeping</u>

   a. Individual logs and facility logs are legal records of activities that occurred during an emergency. It is vital that they are as complete as possible.

   b. Logs should include such information as:

      1) Times of major events and subsequent actions taken (such as, change in emergency classifications, fission product barrier status, discovery of an unplanned radiological release).

      2) Times and content of important communications with other members of the ERO that are related to major events (such as, decisions made during turnover or routine briefings and subsequent actions taken).

      3) Specific actions taken to mitigate equipment failures, contain chemical or radiological spills or fires, and so forth.

4) Specific references to Emergency Radiation Work Permits, clearances, procedure deviations authorized, emergency radiation exposures authorized, and so forth.

5) All records shall be legible and completed in dark pencil or dark ink.

6) To make corrections to records, place a single line through the incorrect entry, initial and date the line-through and clearly enter the correct information near the lined-through data or attach additional pages as needed.

c. Preparation of Activity Logs

1) Initiate 'Log' as follows:

- POSITION: Enter position title.
- DATE: Enter the date that the log sheet is initiated.
- PAGE OF : Enter "1" on the first page and sequential numbers on the following pages as they are used.

2) Enter chronologically those events that are pertinent to the particular individual or organizations:

- TIME: Record the time (using the 24 hour clock) that a message or information was received or action was taken.
- COMMENTS: Briefly record the incident, message, or order received or transmitted. Indicate the time of the incident and actions taken.

3) Upon relief from the position, or termination of the emergency, complete the log as follows:

- PAGE OF : Enter the total number of pages used at the top of each page (that is, Sheet 1 of **12**, Sheet 2 of **12**, and so forth).
- NAME AND SIGNATURE: Check the log for completeness, then in the Comments Section of the last page used in the log, print and sign your name.

4) The person relieving the position will initiate and maintain a new log and any previously prepared logs to allow for continuity of the position.

5) Upon termination of the emergency or exercise/drill, provide all completed logs to Emergency Preparedness.

4.0 PROCEDURE STEPS

NOTE: The steps in the checklists may be performed in any order, or more than once, as necessary.

1. Attachments 1-14 and 17 are to be used as guidance for the positions listed below.

2. If an action is not appropriate under existing conditions, or was not necessary for the event, enter N/A when completing documentation for submittal.

3. Attachment 15 is used for the development of SAMG strategies by the TAD and AAT.

4. Attachment 16 is used by the ERFIS Operator to display ERFIS data.

5. Attachment 18 is the TSC Log to be used by all positions that keep logs.

IF YOUR ERO POSITION IS:	REFER TO PEP-240 POSITIONAL ATTACHMENTS:
SITE EMERGENCY COORDINATOR-TSC (SEC-TSC)	Att 1
TSC SENIOR REACTOR OPERATOR	Att 2
TECHNICAL ANALYSIS DIRECTOR (TAD)	Att 3 Att 15
TSC AAT - STA	Att 4 Att 15
TSC AAT - CORE PERFORMANCE ENGINEER	Att 5 Att 15
TSC AAT - MECH, ELEC/I&C ENGINEERS	Att 6 Att 15
TSC ERFIS OPERATOR	Att 7, Att 16
RADIOLOGICAL CONTROL DIRECTOR (RCD)	Att 8
TSC HP TECHNICIAN	Att 9
COMMUNICATIONS DIRECTOR (CD)	Att 10
EMERGENCY COMMUNICATOR-NRC (EC-NRC)	Att 11
TSC LOGKEEPER	Att 12
SECURITY DIRECTOR (SD)	Att 13
TSC TELECOM/COMPUTER SUPPORT	Att 14
ADMINISTRATIVE TEAM CHECKLIST	Att 17

5.0 REFERENCES

5.1 Emergency Plan References

1. Section 2.4, “Assignment of Responsibilities”
2. Section 3.3, “Technical Support Center”

5.2 Referenced Plant Emergency Procedures

1. PEP-110, "Emergency Classification and Protective Action Recommendations"
2. PEP-310, "Notifications and Communications"
3. PEP-330, "Radiological Consequences"
4. PEP-342, "Core Damage Assessment"

5.3 Other References

1. CRC-821, "Post Accident Sampling"
2. EPL-001, “Emergency Phone List”
3. NUREG-0737, Supp. 1, “Requirements for Emergency Response Capability”
4. AR 201891, ERDS Activation after Terminating Connection

6.0 DIAGRAMS/ATTACHMENTS

See Table of Contents

Position Function: Direct onsite response activities, including protective actions for emergency workers within the Protected Area and advise the Emergency Response Manager regarding emergency classifications warranted by changes in plant conditions.

Responsibility/Activity ✓

1. Assume the Position of Site Emergency Coordinator – TSC. ☐

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Determine if restrictions on eating and drinking are in effect or necessary and ensure TSC personnel are aware of the restrictions.

   d) Perform a formal relief when permanently relieving another SEC-TSC.

      1) Review the activity log.

      2) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

      3) Ensure that TSC personnel and the lead personnel in the Main Control Room, OSC and EOF are aware of the change.

   e) Inform a staff member when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Maintain a log of activities (utilize the TSC Logkeeper when present). ☐

3. Activate the TSC. ☐

   a) Obtain a readiness status report from the onsite ERO Directors.

   b) Discuss status with the ERM, SEC-CR and ERD to prepare for turnover of responsibilities.

      1) Contact the ERM to discuss the status of plant conditions and coordinate preparation for turnover of responsibilities from the SEC-CR.

Responsibility/Activity ✓

2) Conduct a turnover conference call with the TSC, OSC and MCR (utilizing PEP-110, Attachment 4) to relieve the SEC-CR of the following responsibilities:

   - Emergency classification.
   - Onsite protective actions.
   - Coordination of in-plant teams.
   - NRC notifications and communications.

3) Evaluate the adequacy of the TSC Staff for activation. Minimum staffing includes:

   - SEC-TSC
   - TAD
   - AAT-Core Performance
   - AAT - Electrical
   - AAT - Mechanical
   - RCD
   - HP Tech (Initially reports to the OSC)
   - Communication Director
   - Security Director

NOTE:	Formal authorization must be provided by the SEC when filling a TSC position with an individual not listed on the active ERO roster (EPL-001).

c) Declare the TSC activated.

d) Direct the CD to announce activation of the TSC on the PA system.

Responsibility/Activity ✓

4. Classify the Emergency. ☐

   a) Enter and complete the EAL Flow Path to determine the highest classification level.

   b) Coordinate classification with the ERM.

   c) Downgrade a classification level or terminate the emergency.

   d) Declare the emergency terminated when the situation is under control in consultation with the ERM and appropriate agencies.

5. Direct the control room to perform a rapid shutdown per AOP-038 if any fission product barrier is jeopardized or breached. ☐

6. Coordinate and Direct the Response Activities of all Onsite ERO Personnel. ☐

   a) Establish onsite mission priorities in response to the emergency.

      1) Designate mission priorities as High (H), Medium (M), or Low (L) as appropriate.

         - High (H): The mission is necessary to protect the immediate health and safety of the public. Plant conditions are allowing the rapid deterioration of safety barriers, or barriers have already been broken such that a release is either occurring or is imminent.

         - Medium (M): Any task that requires action by the OSC and should be worked on at the immediate time period, but does not fit the criteria of a health and safety of the public related mission (for example, there is a leak, or there is a secondary plant problem, and so forth).

         - Low (L): Any mission which can be worked on when resources permit (for example, an Auxiliary Boiler will not light off, but is not immediately needed as the Main Steam Isolation Valves have been shut due to a Safety Injection or Reactor Containment Building isolation signal).

      2) If multiple missions exist within a single priority classification, confer with the appropriate directors and personnel to establish the preferred sequence.

Responsibility/Activity ✓

b) Ensure Search and Rescue Teams are dispatched by directing the POD to initiate Search and Rescue for missing persons.

c) Review and submit deviations from Technical Specifications to the POD via the SSO.

d) Prepare for NRC Site Team response activities.

NOTE: NRC personnel are in the facility to assist station personnel. The integration of the team should be expedited to aid in mitigating the event.

1) Coordinate the arrival of the Site Response Team with the ALM.

2) Designate an individual to brief the NRC Site Team upon arrival.

3) Direct the CD to perform activities associated with supporting the NRC Site Team.

4) Direct the CD to ensure that the NRC Site Team is integrated into the facility. Integration into the facility means that the team has access to the facility and facility personnel.

7. Direct the plant's development, prioritization, and implementation of Severe Accident Management Guidelines as applicable. ☐

a) Determine which strategies to implement.

b) Discuss actions with the ERM and POD.

8. Authorize and Direct the Conduct of Onsite Protective Actions. ☐

a) Authorize onsite emergency worker exposures > 5 Rem TEDE or entry into fields > 25 Rem/Hr.

b) Authorize the administration of KI to onsite emergency workers when calculated or estimated dose to the thyroid will exceed 50 rem CDE.

c) Order the alerting of onsite personnel and the evacuation of non-essential personnel from local areas or the site when conditions warrant.

1) Initiate and ensure accountability is performed when necessary.

2) Ensure Public Address announcements are made in the event of a release.

Responsibility/Activity ✓

3) Evacuate non-essential personnel at an Alert classification level or higher.

4) Evacuate the Exclusion Area when offsite PARs are required.

d) Determine protective actions for personnel arriving or remaining onsite.

1) Determine protective actions for personnel assembled in the Administrative Building.

2) Evaluate and specify eating and drinking restrictions.

e) Approve recommendations for OSC relocation.

9. Maintain communications with the ERM. ☐

a) Ensure the ERM is informed of priorities and activities.

b) Ensure the ERM is informed of any release.

10. Ensure appropriate notifications are performed and information is transmitted. ☐

a) Ensure the NRC is notified.

1) Keep the NRC informed as to the status of the plant.

2) Keep the NRC informed of the radiological consequences associated with the accident.

11. Ensure TSC personnel are maintaining logs, as appropriate. ☐

12. Establish time periods for and conduct periodic interfacility Briefings. ☐

a) Conduct briefings using the Event Information Worksheet (PEP-110) as a guide.

b) Establish briefing periods at approximately 30 to 60 minute intervals or as conditions change.

Responsibility/Activity ✓

c) Ensure periodic plant status briefings are provided on the Public Address system.

d) Instruct the TSC Logkeeper to keep track of briefing times and to provide prompts when briefings are due.

13. Establish time periods for and conduct periodic intrafacility Briefings. ☐

a) Conduct briefings using the Intrafacility Briefing Guideline in your checklist as a guide.

1) Provide a recap of plant conditions, have each director status their areas and set expectations for upcoming activities and events.

b) Establish briefing periods at approximately 30 to 60 minute intervals or as conditions change.

14. Ensure adequate manning, access control, and 24-hour functional continuity of the MCR, TSC, and OSC. ☐

a) Ensure a shift relief schedule is prepared by the ALM.

b) Request additional material, manpower, and equipment as necessary.

15. Conduct Recovery Operations. ☐

a) Notify offsite organization and the ERO of entry into recovery.

b) Notify personnel of the termination of the emergency and emergency processes.

16. Termination of the Emergency. ☐

a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

b) Replenish content of your positional books.

c) Restore facility to stand-by readiness.

d) Inventory facility equipment as applicable.

INTRAFACILITY BRIEFING GUIDELINE

DATE:
TIME:

RECAP CURRENT CONDITONS

- CLASSIFICATION LEVEL
- PLANT CONDITIONS
- MITIGATING ACTIVITIES AND PRIORITIES
- PERSONNEL SAFETY ISSUES

OPERATIONS	
1) **EALS:** • All EAL Initiating Conditions Met • Potential Initiating Conditions	**NOTES:**
2) **FPB:** • Jeopardy/breached • Potential	
3) **Plant Conditions:** • Status • Potential	
ENGINEERING	
1) Mitigating Activities • Strategies • Priorities	**NOTES:**
2) Equipment • OOS • Equipment Needs • Personnel Needs	
RADIOLOGICAL	
• Release • Plant conditions • KI Issuance	**NOTES:**
SECURITY	
• Plant Access • Issues	**NOTES:**
COMMUNICATIONS	
• NRC Notifications • PA announcements	**NOTES:**

SET EXPECTATIONS

- ANTICIPATE PLANT CONDITIONS
- CRITICAL TSC ACTIVITIES
- OTHER AREAS OF FOCUS

Attachment 2 – TSC SENIOR REACTOR OPERATOR CHECKLIST

Sheet 1 of 2

Position Function: Provide analysis and advice regarding the impact of plant conditions on emergency classifications and accident mitigation.

Responsibility/Activity ✓

1. Assume the Position of TSC Senior Reactor Operator. ☐
   a) Sign in on the facility organization chart.
   b) Obtain the positional notebook/binder from the storage area.
   c) Perform a formal relief when permanently relieving another TSC-SRO.
      1) Review the facility log.
      2) Obtain a briefing on the emergency and any actions that have been completed or are in progress.
   d) Inform a staff member when temporarily leaving the work area (such as to the restroom).
      1) Designate an individual to answer the phones while away.
      2) Upon return, obtain a briefing on any events which have occurred while away.
2. Maintain a log of activities by providing input to the TSC logkeeper. ☐
3. Coordinate with the POD and EOF SRO by establishing the Operations mitigation line. ☐
4. Monitor fission product barrier and plant status on ERFIS. ☐
   a) Provide recommendations for EAL changes.
   b) Maintain the Fission Product Barrier Status Board.
   c) Coordinate with the TSC ERFIS operator to display vital plant information pertinent to the event.
5. Perform monitoring and evaluations required for Severe Accident Management Guidelines (see Attachment 15). ☐
6. Assist in clarifying ERFIS or Plant Parameter Information Forms data. ☐
7. Maintain the TSC Mission Status Board (updating the board is typically done by the ERFIS operator). ☐

Responsibility/Activity ✓

8. Termination of the Emergency. ❒

   a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

   b) Replenish content of your positional books.

   c) Restore facility to stand-by readiness.

   d) Inventory facility equipment as applicable.

Directions for Use of the Operations Mitigation Line

Establish a Conference Call

- Place receiver and wireless headset "on self"
- Push green toggle switch to 'ON'
- Remove handset from cradle
- Hit 'FLASH' button
- Dial Plant Operations Director phone number
- Hit ' FLASH' button
- Dial EOF Senior Reactor Operator's phone number
- Hit 'FLASH' button
- Verify conference call has been established

Disconnect a Conference Call

- Push green toggle switch to 'OFF' position
- Hang up receiver unit on cradle
- Hang up handset on cradle

Attachment 3 – TECHNICAL ANALYSIS DIRECTOR CHECKLIST

Position Function: Direct, supervise and maintain an overview of the short term accident assessment and technical support emergency response actions.

Responsibility/Activity ✓

1. Assume the Position of Technical Analysis Director. ❒

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Verify the TSC-AAT is in place and ready to perform it's functions.

   d) Perform a formal relief when permanently relieving another TAD.

      1) Review the activity log.

      2) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   e) Inform a staff member when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Maintain a log of activities using the TSC Log (Attachment 18). ❒

3. Supervise the activities of the TSC Accident Assessment Team and support personnel. ❒

   a) Direct the technical support and engineering activities in accordance with the priorities established by the SEC-TSC.

   b) Ensure TSC-AAT efforts are focused on short term (< 12 hours) support activities.

   c) Provide engineering personnel to support OSC activities as requested.

   d) Monitor and assess vital plant parameters and conditions.

      1) Direct the TSC-AAT to monitor and assess plant and system parameters and status.

      2) Determine the condition of safety related systems and the fission product barriers.

Responsibility/Activity ✓

3) Ensure that the Equipment Out-Of-Service Board is being updated.

4) Provide recommendations for EAL changes.

5) Provide recommendations for mitigating activities.

6) Inform the SEC of significant changes in plant status.

7) Direct personnel to forecast the level of plant and system safety.

e) Perform monitoring and evaluation required for Severe Accident Management Guidelines (see Attachment 15).

f) Direct personnel to develop or modify procedures to perform response activities as necessary.

g) Ensure that sample requests to the RCD contain specific details on the type of result information that is necessary (such as system, boron, activity, sample and system temperatures, and so forth). Use Attachment 3, Sheets 4 and 5, as guidance.

h) Direct the determination of the extent of core damage.

i) Ensure OSC missions are tracked on the TSC Mission Status Board. A shared file is set up for use to ensure consistency between the OSC and TSC status boards. The file is located in Y:\Shared\EP Drill Mission Board.

1) Ensure mission priorities are updated on the Mission Status Board on a periodic basis.

2) Ensure mission priorities are coordinated/verified with the ERD on a periodic basis.

j) Conduct periodic team briefings.

4. Coordinate technical support and engineering efforts with the TAM. ❒

a) Inform the TAM of actions being performed.

b) Coordinate efforts with the TAM to focus EOF-AAT efforts on long term (> 12 hours) support activities unless additional short term support is necessary.

5. Take direction from and provide status updates to the SEC-TSC. ❒

Responsibility/Activity ✓

6. Request any materials or supplies not available on site from the ALM. ❒

   a) Inform the ALM of any need for support from external contractor services.

7. Termination of the Emergency. ❒

   a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

   b) Replenish content of your positional books.

   c) Restore facility to stand-by readiness.

   d) Inventory facility equipment as applicable.

Post Accident SAMPLE CAPABILITIES

Sample Description	RHR(1)	RCS(2)
Diluted Boron	✓	✓
pH	✓	✓
Specific Activity(3)	✓	✓

(1) Samples collected from the RHR system when the RHR pumps are in service. One of the isolation valves (1RH-16 or 1RH-54) must be opened by the Main Control Room.

(2) Sample flow from the RCS Hot Leg Loop 2 or 3. The Main Control Room must provide valve alignment.

(3) Nuclides readily identified in an accident sample would be Iodine and Cesium. Nuclides listed in PEP-342 may be identified in a gamma scan after sufficient decay time.

Post Accident SAMPLE CAPABILITIES

1. The Remote Sample Dilution Panel (RSDP) has the capability of sampling the Reactor Containment Building (RCB) atmosphere at various locations under postulated conditions[1].

2. The following GRAB samples can be obtained:

   a) Hydrogen[2]

   b) Specific Activity[2]

   c) Silver-Zeolite Cartridge for iodine

3. The samples may be obtained from the following locations within the RCB:

   a) Dome

   b) Reactor Coolant Pump and Steam Generator 1A

   c) Reactor Coolant Pump and Steam Generator 1B

   d) Reactor Coolant Pump and Steam Generator 1C

   e) Pressurizer

   f) RCP area (below the flux mapping room)

Notes:	Sampling is performed as per CRC-821, "Post Accident Sampling." To collect any samples, the containment hydrogen analyzer train A must be in operation.

Attachment 4 – TSC AAT - SHIFT TECHNICAL ADVISOR CHECKLIST

Sheet 1 of 1

Position Function: Support TSC operations engineering activities.

Responsibility/Activity ✓

1. Assume the Position of AAT – STA. ❒
   a) Sign in on the facility organization chart.
   b) Obtain the positional notebook/binder from the storage area.
   c) Perform a formal relief when permanently relieving another AAT - STA.
      1) Obtain a briefing on the emergency and any actions that have been completed or are in progress.
   d) Inform a staff member when temporarily leaving the work area (such as to the restroom).
      1) Designate an individual to answer the phones while away.
      2) Upon return, obtain a briefing on any events which have occurred while away.
2. Maintain an accident assessment log by providing input to the TAD. ❒
3. Obtain a copy of the Emergency Procedures currently in use. ❒
4. Assist with accident classification. ❒
   a) Monitor plant systems and procedure status.
   b) Inform the TAD of any changes or impending classification changes and their bases.
5. Brief the TAD on key issues. ❒
6. Solve operational and plant procedure problems. ❒
7. Maintain current event classification and bases on status boards. ❒
8. Termination of the Emergency. ❒
   a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.
   b) Replenish content of your positional books.
   c) Restore facility to stand-by readiness.
   d) Inventory facility equipment as applicable.

Attachment 5 – TSC AAT - CORE PERFORMANCE ENGINEER CHECKLIST

Sheet 1 of 1

Position Function: Provide engineering analysis and trouble shooting, as directed, to assist in accident mitigation.

Responsibility/Activity ✓

1. Assume the Position of AAT - Core Performance Engineer. ❒
   a) Sign in on the facility organization chart.
   b) Obtain the positional notebook/binder from the storage area.
   c) Perform a formal relief when permanently relieving another AAT - Core Performance Engineer.
      1) Obtain a briefing on the emergency and any actions that have been completed or are in progress.
   d) Inform a staff member when temporarily leaving the work area (such as to the restroom).
      1) Designate an individual to answer the phones while away.
      2) Upon return, obtain a briefing on any events which have occurred while away.
2. Maintain an accident assessment log by providing input to the TAD. ❒
3. Perform and update core damage assessment based on current information. ❒
   a) Coordinate sampling with the RCD and AAT-STA.
   b) Post the latest core damage estimation.
4. Perform current and projected shutdown margin calculations. ❒
5. Assist the Dose Projection Team with source term problems. ❒
6. Termination of the Emergency. ❒
   a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.
   b) Replenish content of your positional books.
   c) Restore facility to stand-by readiness.
   d) Inventory facility equipment as applicable.

Attachment 6 – TSC AAT - MECHANICAL, ELECTRICAL/I&C ENGINEERS CHECKLIST

Sheet 1 of 1

Position Function: Provide engineering analysis and trouble shooting, as directed, to assist in accident mitigation.

Responsibility/Activity ✓

1. Assume the Position of AAT – Engineer. ❒
   a) Sign in on the facility organization chart.
   b) Obtain the positional notebook/binder from the storage area.
   c) Perform a formal relief when permanently relieving another AAT - Engineer.
      1) Obtain a briefing on the emergency and any actions that have been completed or are in progress.
   d) Inform a staff member when temporarily leaving the work area (such as to the restroom).
      1) Designate an individual to answer the phones while away.
      2) Upon return, obtain a briefing on any events which have occurred while away.
2. Maintain an accident assessment log by providing input to the TAD. ❒
3. Solve engineering problems as assigned. ❒
   a) Obtain necessary drawings.
   b) Investigate equipment failures.
4. Provide support to the ERD and DCC on repair efforts. ❒
5. Post a out-of-service equipment listings on the status boards. ❒
6. Termination of the Emergency. ❒
   a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.
   b) Replenish content of your positional books.
   c) Restore facility to stand-by readiness.
   d) Inventory facility equipment as applicable.

Attachment 7 – TSC ERFIS OPERATOR CHECKLIST

Sheet 1 of 1

Position Function: Operate ERFIS to obtain and display plant information.

Responsibility/Activity ✓

1. Assume the Position of TSC ERFIS Operator. ☐

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Perform a formal relief when permanently relieving another TSC ERFIS Operator.

      1) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   d) Inform a staff member when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Log on to the ERFIS terminal (See Attachment 16 for ERFIS Operator Instructions). ☐

> **NOTE:** Update the facility on plant parameter information per PEP-310 when ERFIS data is out of service or unavailable.

3. Coordinate with the TSC SRO to operate the facility display system. ☐

4. Coordinate with the TSC SRO to maintain the mission status board. A shared file is set up for use to ensure consistency between the OSC and TSC status boards. The file is located in Y:\Shared\EP Drill Mission Board. ☐

5. Print ERFIS reports as needed. ☐

6. Termination of the Emergency. ☐

   a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

   b) Replenish content of your positional books.

   c) Restore facility to stand-by readiness.

   d) Inventory facility equipment as applicable.

Attachment 8 – RADIOLOGICAL CONTROL DIRECTOR CHECKLIST

Sheet 1 of 4

Position Function: Perform and direct the analysis of plant radiological data, determination and implementation of radiation protection measures, and radiological monitoring within the Protected Area. Advise the SEC-TSC of the radiological impact of the incident regarding emergency classification and onsite protective and corrective actions.

Responsibility/Activity ✓

1. Assume the Position of Radiological Control Director. ❒

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Evaluate the need to issue dosimetry and inform the SEC-TSC.

      1) Direct personnel to obtain dosimetry from the supply cabinet.

      2) Direct the RC technician to record TSC personnel dosimetry data on PEP-330 Attachment 12.

      3) Do not delay TSC activation to issue dosimetry.

   d) Determine if restrictions on eating and drinking are in effect or necessary and ensure the SEC-TSC and TSC personnel are aware of the restrictions. Remove food and drinks from tabletops and easy access areas to aid in meeting restriction.

   e) Perform a formal relief when permanently relieving another RCD.

      1) Review the activity log.

      2) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   f) Inform a staff member when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Maintain a log of activities using the TSC Log (Attachment 18). ❒

Responsibility/Activity	✓
3. Initiate the Radiological Support Functions for the Facility.	☐
a) Obtain staff readiness status.	
b) Ensure personnel are signed in on the facility organization chart.	
c) Ensure communications systems are operational.	
4. Supervise the activities of the Radiological Control and Chemistry Coordinators.	☐
5. Direct the alignment of TSC ventilation.	☐
a) Coordinate the alignment of normal ventilation.	
b) Coordinate the alignment of emergency ventilation when potential exists for a release based on plant conditions or an actual release begins.	
6. Direct the collection and analysis of radiological and chemistry information.	☐
7. Determine and Direct Onsite Exposure and Contamination Controls.	☐
a) Coordinate the issuance of dosimetry to TSC personnel as necessary.	
b) Evaluate the need for and coordinate the SEC-TSC authorization of the allowance of onsite emergency worker exposures > 5 Rem TEDE or entry into fields > 25 Rem/Hr.	
c) Coordinate the issuance and authorization of the administration of KI	
1) KI should be considered as a dose reducing option when radioactive iodine is present.	
2) KI should be administered to onsite emergency workers when calculated or estimated dose to the thyroid will exceed 50 rem CDE per PEP-330.	

Responsibility/Activity ✓

3) Consideration should be given to the following on-site issuance of KI to personnel.

- TSC - Coordinate with the TSC HP for KI distribution. KI is located in the Decon Area/Control Point Emergency Kit.
- OSC - The RCC coordinates KI distribution. KI is located in the OSC Emergency Kit.
- MCR - The RCC coordinates KI distribution. KI is located in the MCR Emergency Kit.
- Other Protected Area personnel (Security, Vendors, etc.) coordinate with the SC and the RCC for distribution.

d) Determine appropriate access controls for affected and unknown areas.

1) Determine the need to relocate the OSC.

2) Ensure Public Address announcements are made to inform personnel of any release and the affected areas.

3) Ensure habitability surveys are performed in occupied areas as per PEP-330.

e) Determine the appropriate use of protective clothing and respiratory protection equipment.

f) Ensure personnel decontamination activities are conducted as necessary.

g) Ensure appropriate bioassay procedures are implemented or developed to support the event.

h) Assist in the coordination of the transfer of contaminated injured personnel.

8. Ensure onsite food and drinking water supplies are consumable. ❒

Responsibility/Activity ✓

9. Verify Radiological and Meteorological Information for Onsite Impact. ❒

   a) Track release times and post the release path, start and stop times.

   b) Notify the SEC-TSC, RCC, and CC of any release or any significant radiological or meteorological changes (such as wind shifts).

   c) Request operations isolate the Waste Process Building (E-51, E-76, E-52, E-82, E-77, E-99 and R-6) ventilation systems (OP-171) in the event of a release.

10. Provide Support for Site Evacuation and Assembly Area Activities. ❒

    a) Notify the SD of wind direction and team locations for site evacuations.

    b) Recommend protective actions for personnel assembled in the Administrative Building to the SEC.

    c) Ensure that a team is dispatched to monitor radiological conditions and provide radiological controls at the Security Building during a site evacuation.

11. Provide radiological status updates to TSC ERO management personnel. ❒

12. Request any materials or supplies not available on site from the ALM. ❒

    a) Determine the need for additional personnel to support maintenance, operations and assembly area functions.

13. Termination of the Emergency. ❒

    a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

    b) Replenish content of your positional books.

    c) Restore facility to stand-by readiness.

    d) Inventory facility equipment as applicable.

Attachment 9 – TSC HP TECHNICIAN CHECKLIST

Sheet 1 of 6

Position Function: Provide radiological support and monitoring activities within the TSC.

Responsibility/Activity ✓

1. Assume the Position of TSC HP Technician. ☐

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Notify the RCD and RCC of arrival.

   d) Perform a formal relief when permanently relieving another TSC HP Technician.

      1) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

2. Maintain a log by providing input to the RCD. ☐

3. When directed ensure TSC personnel have retrieved dosimetry from the Emergency Personnel Dosimetry Cabinet and that all responding personnel have either a Self Reading Pocket Dosimeter (SRPD) or electronic dosimeter (EPD). Record applicable data on PEP-330 Attachment 12. If personnel have assigned TLD with him/her do not issue another facility TLD. ☐

4. Confirm proper TSC ventilation system line-up as per Part 1, Sheet 3 of this Attachment. ☐

5. Manually activate the TSC ventilation system per Part 2, Sheet 3 of this Attachment and verify proper operation per Part 3, Sheet 4 of this attachment, if directed. ☐

   a) Ensure the green operating light is lit and a LED value is displayed on the TSC ventilation system radiation monitor.

6. Perform TSC habitability surveys. ☐

   a) Perform TSC air samples when directed.

   b) Report the results of TSC habitability surveys to the RCD.

Responsibility/Activity ✓

7. Facility Deactivation. ☐

   a) Return all radiological equipment and supplies to the appropriate storage locations and perform inventories.

   b) Return the TSC ventilation system to the normal mode.

   c) Collect dosimetry, record SRPD or EPD readings on PEP-330 Attachment 12 and forward TSC issued TLDs to dosimetry for processing.

8. Termination of the Emergency. ☐

   a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

   b) Replenish content of your positional books.

   c) Restore facility to stand-by readiness.

   d) Inventory facility equipment as applicable.

TSC VENTILATION SYSTEM STATUS CHECKLIST

(1-18) correspond to the locations on the checklist attachment page titled TSC Floor Plan.

PART 1: Verify normal ventilation alignment as follows:

Responsibility/Activity ✓

Located in K-15, Ventilation Equipment Room.

1. Check that the EMERGENCY FILTRATION CONTROL SWITCH(1) for MUF-1 is in NORMAL. ☐
2. Check that the OA-2 Motor Starter Switch(2) is in ON. ☐
3. Check that the Disconnect Switch for OA-2(2) is in ON. ☐
4. Check that the Outside Air Fan for OA-2(3) is operating. ☐
5. Check that the Disconnect Switch for MUF-1(4) is in the ON position. ☐
6. Check that the TSC Area HVAC-Makeup Emergency Recirculation Fan MUF-1(5) is NOT operating. ☐
7. Check that the Filtration Unit Duct Heater DH-1(6) is in the ON position. ☐
8. Check that the Disconnect Switch for DH-1(7) is in the ON position. ☐
9. Check that the Filtration Unit Bypass Damper D-6(8) is in the OPEN position. ☐
10. Check that the Toilet Exhaust Damper D-3(9) is in the OPEN position (not essential for system operability). ☐
11. Check that the Decon Exhaust Damper D-4(10) is in the CLOSED position. ☐
12. Check that the Toilet Exhaust Fan EF-2(11) is operating. ☐
13. Check that the Decon Exhaust Fan EF-3(12) is NOT operating. ☐
14. Check that the Disconnect Switch for EF-3(13) is in ON. ☐

Located in K-06, TSC Staff Room.

15. Check that the OUTSIDE AIR INTAKE MANUAL OVERRIDE SWITCH(15) is in NORMAL. ☐
16. Check that the RAD ALARM INSIDE AIR SWITCH(16) is in the RESET position and the red light is OFF. ☐
17. Check that the Outside Air Intake Fan OA-2 Flow Indicator(17) ≥ 500 CFM. ☐

NOTE: Any deviations from the normal ventilation alignment should not preclude alignment of the ventilation system in the emergency mode.

PART 2: Manually placing the TSC Ventilation System in the Emergency Mode:

Located in K-06, Staff Room.

1. Move the RAD ALARM INSIDE AIR SWITCH(16) to OFF. ☐
2. Place the OUTSIDE AIR INTAKE MANUAL OVERRIDE SWITCH(15) in OVERRIDE. ☐

TSC VENTILATION SYSTEM STATUS CHECKLIST (CONTINUED)

(1-18) correspond to the locations on the page titled TSC Floor Plan in this attachment.

PART 3: Verification of Emergency Ventilation Alignment:

Responsibility/Activity ✓

Located in K-15, Ventilation Equipment Room.

1. Check that the TSC Area HVAC-Makeup Emergency Recirculation Fan MUF-1(5) is operating. ☐
2. Check that the Filtration Unit Bypass Damper D-6(8) is in the CLOSED position. ☐
3. Check that the Toilet Exhaust Fan EF-2(11) is NOT operating. ☐
4. Check that the Toilet Exhaust Damper D-3(9) is in the CLOSED position (not essential for system operability). ☐
5. Check that the Decon Exhaust Fan EF-3(12) is operating. ☐
6. Check that the Decon Area Exhaust Damper D-4(10) is in the OPEN position. ☐

Located in K-06, TSC Staff Room.

7. Check that the Outside Air Intake Fan OA-2 Flow Indicator(17) is between 500-1200 CFM. ☐

Actual: _____ CFM*

8. Check that the TSC to Outside Differential Pressure(18) ≥ 0.125 inches. ☐

Actual: _____ inches*

Report system status to the RCD.

Operational ☐

Non-Operational ☐

Operational with reservation* ☐

Ensure green operating light is lit and an LED value is displayed on the TSC ventilation system radiation monitor (RM-1TS-3653C) ☐

*If the initial flow indication and outside differential pressure (items 7 and 8) are within the acceptable range, then the system status may be declared operational.

If one or both are not within the acceptable range, then report the system as operational with reservation. Wait 1 hour for the flow to stabilize. If after 1 hour the indications are still outside of the acceptable ranges, report the findings immediately to the RCD. The RCD should initiate efforts to troubleshoot and repair the system.

One thing to check is flow damper DM-5 (PCU-1). If it appears that the automatic control of flow damper DM-5 (PCU-1) has malfunctioned, flow can be corrected by de-energizing the controller and the damper and manually adjusting the linkage between the damper motor and the damper to set the flow as needed.

If the system is operating and air is flowing through the filter bank it is providing some filtration and should be left running while the problem is analyzed.

TSC VENTILATION SYSTEM STATUS CHECKLIST (CONTINUED)

(1-18) correspond to the locations on the checklist attachment page titled TSC Floor Plan.

PART 4: Establish TSC radiological access controls:

NOTE:	Access to the TSC is normally restricted to the center stairwell to ensure that personnel entering the TSC are checked for contamination prior to entering the facility.

1. At the TSC center stairwell entrance: ☐

   a) Response check the frisker in the Decon Area/Control Point (K22).

   b) Post signs requiring personnel to frisk.

2. Ensure security has locked the doors & posted the access control signs at the following locations: ☐

   a) Elevator entrance.

   b) South stairwell.

   c) North stairwell.

3. Inform the RCD that the access controls are in place and that the frisking station has been established. ☐

PART 5: Restoring the TSC Emergency Ventilation System to normal mode:

Located in K-06, TSC Staff Room.

1. Notify the Main Control Room and the RWP Office that you are going to return the TSC Emergency Ventilation System to normal mode. ☐

2. Place the OUTSIDE AIR INTAKE MANUAL OVERRIDE SWITCH(15) in NORMAL. ☐

3. Place the RAD ALARM INSIDE AIR SWITCH(16) in the RESET position and verify the red light is OFF. ☐

4. Check that the Outside Air Intake Fan OA-2 Flow Indicator(17) ≥ 500 CFM. ☐

Comments:

_____

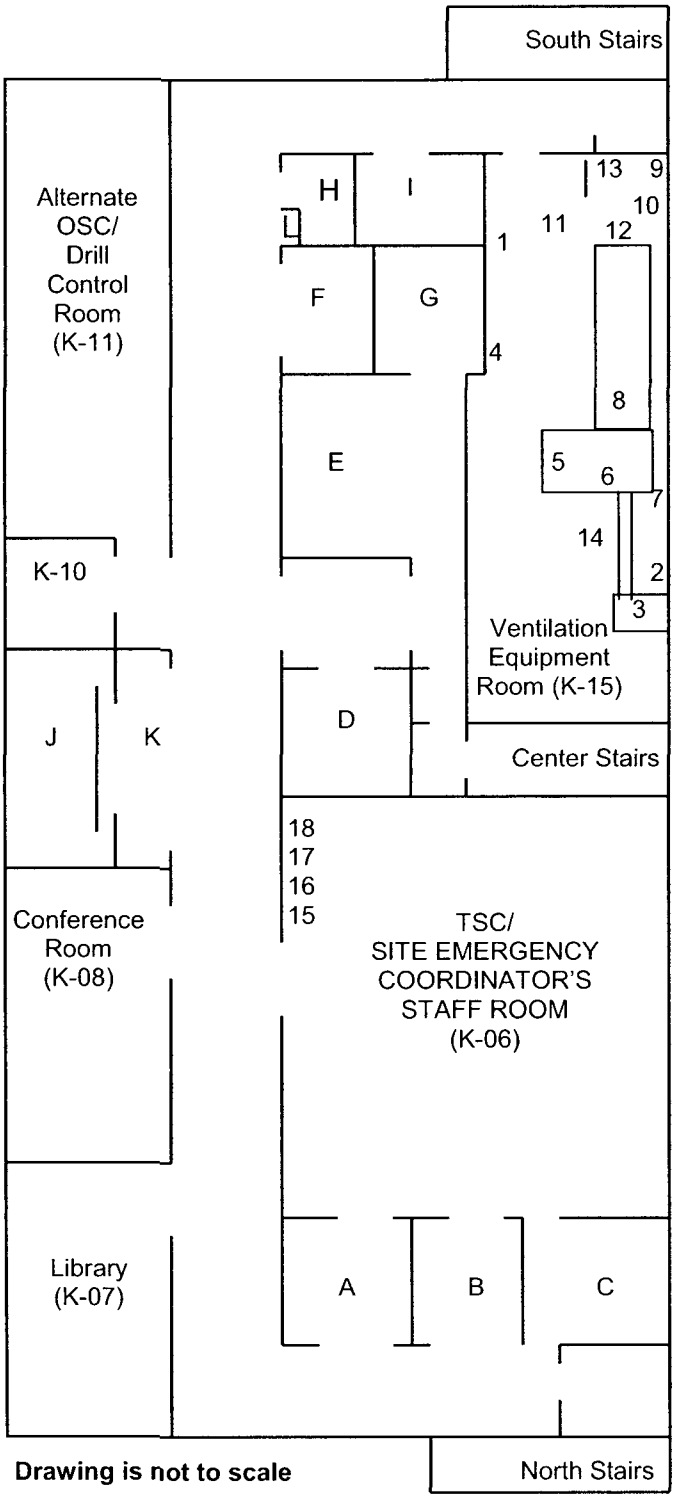
_____

_____

_____ _____

Printed Name/Signature Date/Time

TECHNICAL SUPPORT CENTER FLOOR PLAN



Drawing is not to scale

TSC EMERGENCY VENTILATION

EQUIPMENT IN TSC VENTILATION ROOM

1. Emergency Filtration Control Switch
2. OA-2 Motor Starter and Disconnect Switch
3. OA-2 Outside Air Fan
4. Emergency Recirc. Fan (MUF-1) Switch
5. Emergency Recirc. Fan (MUF-1)
6. Filtration Unit Duct heater (DH-1)
7. Filtration Unit Duct Heater (DH-1) Switch
8. Filtration Unit Bypass Damper (D-6)
9. Toilet Exhaust Damper (D-3)
10. Decon Area Exhaust Damper (D-4)
11. Toilet Exhaust Fan (EF-2)(overhead)
12. Decon Area Exh. Fan (EF-3) (overhead)
13. Decon Area Exhaust Fan (EF-3) Switch
14. DM-5 (PCU-1)

EQUIPMENT IN SEC STAFF ROOM

15. OAI Manual Override Switch
16. Radiation Alarm Inside Air Switch
17. Pressurization Air flow
18. TSC differential Air Pressure Gauge

ROOM DESIGNATIONS

A	Accident Assessment Team (K-04)
B	NRC Room (K-03)
C	Security Room (K-02)
D	Food Prep/Kitchen Area (K-25)
E	HP Decon Equip Rm (K-22)
F	Communications Room (K-20)
G	Decon. Sink/Shower Facility
H	Women's Room
I	Men's Room
J	Elevator
K	Vestibule (K-09)
L	Closet

Attachment 10 – COMMUNICATIONS DIRECTOR CHECKLIST

Position Function: Direct, supervise and perform the onsite notification, communication and administrative emergency response actions.

Responsibility/Activity ✓

1. Assume the Position of Communications Director. ☐
   a) Sign in on the facility organization chart.
   b) Obtain the positional notebook/binder from the storage area.
   c) Perform a formal relief when permanently relieving another CD.
      1) Review the activity log.
      2) Obtain a briefing on the emergency and any actions that have been completed or are in progress.
   d) Inform a staff member when temporarily leaving the work area (such as to the restroom).
      1) Designate an individual to answer the phones while away.
      2) Upon return, obtain a briefing on any events which have occurred while away.
2. Maintain a log of activities using your checklist log. ☐
3. Initiate Communications Support Functions for the TSC. ☐
   a) Verify the communications staff is present.
   b) Direct the communications staff to perform equipment checks.
   c) Brief the communications staff on existing conditions.
   d) Inform the SEC-TSC and the EC-CR that communications responsibilities for the NRC are ready to be assumed.
4. Supervise the Activities of the TSC Communications and Support Personnel. ☐
   a) Ensure posted information in the TSC is kept current.
   b) Ensure any significant changes in conditions are transmitted to the EOF.
   c) Ensure and maintain the availability and appropriate use of onsite emergency communications equipment.

Responsibility/Activity ✓

d) Ensure NRC notifications are transmitted to the EOF.

e) Direct Telecom/Computer Support to maintain the following systems:

1) Voice and Video Communication Systems including the HNP PBX, wireless PBX, site radio systems, and video conferencing facility.

2) Verify operability of the back up telephone system for each position. See Emergency Phone List , EPL-001 Section 2.5.

3) Plant computer systems including ERFIS.

4) Business computer systems including application software systems, computer network resources and PC's, printers and other devices.

f) Direct Telecom/Computer Support to obtain assistance through HNP, Corporate or outside resources as needed to repair problems that occur with computer or communications systems.

5. Ensure the Timely Notification and Transfer of Information to the NRC. ❒

a) Obtain SEC-TSC approval for distribution of completed NRC Reactor Plant Event Notification Worksheet.

b) Provide approved NRC Reactor Plant Event Notification Worksheet to the EC-NRC for transmittal.

c) Transmit approved NRC Reactor Plant Event Notification Worksheet to the NRC in the absence of an EC-NRC.

d) Develop responses to NRC messages, obtain release approval and transmit them to the originator.

6. Interaction with the NRC Site Team. ❒

a) Coordinate onsite support for the NRC Site Team.

b) Ensure that the NRC Site Team gets dosimetry as required.

c) Brief the NRC Site Team as directed by the SEC-TSC using the Event Information Worksheet (PEP-110 Attachment 4) as a guide.

d) Provide access to the TSC and TSC personnel to allow for integration of the NRC Site Team into the facility. This may require finding out who the team wants to integrate with and introducing the team members to their TSC counterparts.

Responsibility/Activity	✓
7. Perform periodic status announcements, using this checklist, over the public address system and coordinate PA announcements which require alarms with MCR personnel.	☐
8. Ensure the TSC Directors are kept informed of HNP requests for offsite assistance.	☐
9. Request any materials or supplies not available on site from the ALM.	☐
10. Termination of the Emergency.	☐
a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.	
b) Replenish content of your positional books.	
c) Restore facility to stand-by readiness.	
d) Inventory facility equipment as applicable.	

PUBLIC ADDRESS SYSTEM MESSAGES

Facility Activation

1. This is the Communications Director in the TSC. The following is a status of plant conditions as of (*time*) _____.
2. A/An (*classification level*) _____ was declared at (*time*) _____

   because of (*EAL or brief description*) _____.
3. The TSC and EOF were activated at (*time*) _____.
4. The Site Emergency Coordinator-TSC is _____.
5. The Emergency Response Manager is _____.
6. Set all clocks to _____ at my mark (use ERFIS time).

Classification Upgrades

Alert

CAUTION

During a security event, it may be advisable **NOT** to sound an alarm or make a PA announcement. The following script may not be appropriate for Security Threat/Events.

Have the Control Room sound the Site Evacuation Alarm and announce:

- Attention all personnel; attention all personnel: An Alert has been declared due to (*brief description of initiating event*). All members of the ERO report to your designated emergency response facility. All other HNP personnel exit the Protected Area and report to the Admin Building 2nd floor conference room area, and await further instructions. All visitors, all nonessential contractor personnel, all declared pregnant females and all handicapped personnel please leave the site at this time."
- If there is a localized emergency (for example, high radiation, fire), announce its type and location and instruct personnel to stand clear of this area.
- If there is a potential for an airborne radiological release, consider announcing that there will be no eating, drinking, or smoking until further notice.

PUBLIC ADDRESS SYSTEM MESSAGES

Site Area Emergency

CAUTION

During a security event, it may be advisable **NOT** to sound an alarm or make a PA announcement. The following script may not be appropriate for Security Threat/Events.

Consider radiological conditions when preparing to evacuate personnel. If high dose rates will be encountered it may be better to shelter non-essential personnel onsite.

Have the Control Room sound the Site Evacuation Alarm for 15 seconds and make the following announcement over the public address system:

- If entering from no event or an Unusual Event :
  "Attention all personnel; attention all personnel: A Site Area Emergency has been declared due to (*brief description of event).* All ERO members report to your designated emergency response facility. All other personnel exit the Protected Area and leave the site. Security, initiate Accountability."
- If entering from an Alert:
  "Attention all personnel; attention all personnel: A Site Area Emergency has been declared due to (*brief description of event).* All personnel who are not part of the ERO exit the Protected Area and leave the site. Security, initiate Accountability."
  - If there is a localized emergency (for example, high radiation, fire), announce its type and location and instruct personnel to stand clear of this area.
  - If there is a potential for an airborne radiological release, consider announcing that there will be no eating, drinking, or smoking until further notice.

PUBLIC ADDRESS SYSTEM MESSAGES

General Emergency

CAUTION

During a security event, it may be advisable **NOT** to sound an alarm or make a PA announcement. The following script may not be appropriate for Security Threat/Events.

Consider radiological conditions when preparing to evacuate personnel. If high dose rates will be encountered it may be better to shelter non-essential personnel onsite

Have the Control Room sound the Site Evacuation Alarm for 15 seconds and make the following announcement over the public address system:

- If entering into a GE from an Alert or lower:
  "Attention all personnel; attention all personnel: A General Emergency has been declared due to (*brief description of event*). All members of the ERO report to your designated emergency response facility. All other personnel exit the Protected Area and leave the site. Security, initiate Accountability."
- If entering into a GE from an Site Area Emergency:
  "Attention all personnel; attention all personnel: A General Emergency has been declared due to (*brief description of event*).
- If required or applicable, "There will be no eating, drinking, or smoking until further notice."
- If there is a localized emergency (for example, high radiation, fire), announce its type and location and instruct personnel to stand clear of this area.

PUBLIC ADDRESS SYSTEM MESSAGES

Radiological Release

- ❑ No release is occurring at this time.
- ❑ A release is imminent.
- ❑ A release is occurring.
- ❑ A release has occurred but has been stopped.
- ❑ No eating, drinking, smoking or chewing is allowed until further notice.

1. The wind is coming from _____ and is blowing towards _____.

Fire (as applicable)

1. The fire alarm was sounded at (*time*) _____ due to a fire at/in _____.
2. All personnel not directly involved in fighting the fire should leave the affected area.
3. Offsite assistance has been requested from _____.
4. The fire was extinguished at (*time*) _____.

Personnel Injuries (as applicable)

1. An injury occurred at (*time*) _____ at/in _____.
2. First aid personnel have been dispatched to the scene.
3. Offsite assistance has been requested from _____.
4. Injured personnel have been transported to _____.

PUBLIC ADDRESS SYSTEM MESSAGE FORM

Accountability

1. Accountability was ordered at (*time*) _____.
2. Accountability was completed at (*time*) _____.

Other Site Activities

1. Response priorities are _____.

_____

_____

_____

_____

Offsite Information (as applicable)

1. News releases are being provided by ❑ Site Communications Manager ❑ the JIC.
2. The JIC was/is being activated at the Progress Energy Building.
3. Harris Lake is/has been evacuated.
4. The Counties have sounded the public alerting sirens at (*time*) _____.
5. The State of North Carolina has implemented protective actions for the public.

   ❑ Shelter Zones: A B C D E F G H I J K L M N

   ❑ Evacuate Zones: A B C D E F G H I J K L M N

Attachment 11 – EMERGENCY COMMUNICATOR - NRC CHECKLIST

Position Function: Provide continuous communication with the NRC.

Responsibility/Activity ✓

1. Assume the position of Emergency Communicator-NRC. ❒

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Perform a formal relief when permanently relieving another EC-NRC.

      1) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   d) Inform a staff member when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Maintain a communication log by providing input to the CD. ❒

3. Obtain a turnover from the Emergency Communicator in the Control Room. ❒

4. Perform communications with the NRC. ❒

   a) Inform the NRC that notification responsibility has been transferred to the TSC.

   b) Ensure that ERDS is activated within 60 minutes of an Alert or higher classification.

      - Refer to PEP-310 for guidance on activating ERDS.

      - When an ERDS connection is terminated a 15-minute delay is necessary prior to attempting to reactivate the connection. (Reference 5.3.4)

Responsibility/Activity ✓

c) Perform notifications to the NRC using the NRC Emergency Telecommunication System (ETS). In addition to the information on the Reactor Plant Event Notification Worksheet be prepared to address the following issues:

1) Safety related equipment not operational

2) Plant Control Status

- Reactivity control
- Primary inventory control
- Primary pressure control
- Primary transport control
- Primary heatsink control
- Steam generator inventory control
- Containment control

3) EOPs in use

4) Critical Safety Function Status

- Subcriticality
- Core Cooling
- Heat sink
- RCS Integrity
- Containment
- RCS inventory

d) Record key information discussed with the NRC.

e) Contact the NRC Senior Resident Inspector or another resident inspector if the Emergency Communicator was unable to make contact prior to TSC activation.

f) Ensure that the NRC resident inspector in the TSC is aware of information being transmitted offsite.

Responsibility/Activity	✓
5. Inform TSC and EOF staff of NRC questions and actions.	❒
6. Termination of the Emergency.	❒
a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.	
b) Replenish content of your positional books.	
c) Restore facility to stand-by readiness.	
d) Inventory facility equipment as applicable.	

Attachment 12 – TSC LOGKEEPER CHECKLIST

Sheet 1 of 1

Position Function: Maintain a chronological log of all major TSC activities and decisions throughout the emergency.

Responsibility/Activity ✓

1. Assume the position of TSC Logkeeper. ❒

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Perform a formal relief when permanently relieving another TSC Logkeeper.

      1) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   d) Inform a staff member when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Maintain an electronic or manual TSC log by recording TSC activities. ❒

   - An electronic log template can be found on the HNP EP Web page.
   - Refer to Attachment 18 for a manual log template.

3. Remind the SEC-TSC of predesignated briefing times. ❒

4. Termination of the Emergency. ❒

   a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

   b) Replenish content of your positional books.

   c) Restore facility to stand-by readiness.

   d) Inventory facility equipment as applicable.

Attachment 13 – SECURITY DIRECTOR CHECKLIST

Sheet 1 of 4

Position Function: Coordinate assembly, accountability, and evacuation and supervise the security force for onsite (inside the Protected Area) activities.

Responsibility/Activity ✓

1. Assume the Position of Security Director. ❒

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Perform a formal relief when permanently relieving Security Director.

      1) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   d) Inform a staff member when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Maintain a log of activities using the TSC Log (Attachment 18). ❒

3. Initiate the Security Support Functions for the Facility. ❒

   a) Ensure the TSC doors and the key cabinet are unlocked.

   b) Inform the SEC of any security requirements in effect during the emergency.

      1) Advise the SEC of non-routine security procedures, contingency events or Local Law Enforcement Agency (LLEA) support activities that are in effect.

4. Maintain Plant Security. ❒

   a) Direct the activities of the HNP Security Organization.

   b) Ensure the SEC-TSC and TSC Directors are informed of any changes related to the security situation.

Responsibility/Activity ✓

c) Provide escorts for emergency vehicles required to enter the protected area.

1) Ensure site access for in route organizations is expedited.

d) Coordinate efforts with LLEAs as necessary.

e) Provide personnel to maintain access control for the EOF.

5. Direct Protected Area Accountability Activities. ❒

a) Perform accountability for TSC and Security personnel.

1) Maintain accountability of personnel assigned to the TSC.

b) Generate lists of personnel within the Protected Area as necessary.

1) Ensure accountability reports are compiled and missing persons identified for the MCR, TSC, OSC and Security Building.

2) Provide the results of personnel accountability to the SEC within 30 minutes of the declaration of the emergency.

c) Perform access control functions.

6. Coordinate Planning Efforts for Search and Rescue Operations. ❒

a) Brief the SEC on the status of missing persons who can not be readily located.

7. Coordinate Security Force Efforts with Radiological Control Personnel. ❒

a) Identify the need to isolate the fourth floor of the 'K' Building with the RCD.

b) Coordinate Security Team personnel protective actions with the RCD.

1) Coordinate with the RCD during safeguards related events which require evacuation of the RCA.

Responsibility/Activity ✓

8. Direct Site Security Personnel to Provide Site Security and Assist With Accountability and Plant Access Activities. ❒

   a) Issue dosimetry packets to Immediate Response Personnel arriving on site.

   b) Perform accountability for Security personnel in the Security Building Admin Area (applies to the senior officer).

   c) Generate lists of personnel accounted for and missing individuals and provide them to the Security Director (applies to the senior officer).

   d) Assist with transportation efforts of contaminated injured personnel.

      1) Direct personnel to clear the HLZ and passage area and assist with transfer efforts when transporting injured personnel by helicopter when applicable.

      2) Notify the MCR of ambulance arrival.

Note:	Emergency response vehicles are exempt from search provided they are escorted by Security while within the Protected Area.

      3) Search the ambulance crew members for prohibited items.

      4) Issue Escort Required Badges and dosimetry to personnel.

      5) Provide the ambulance kit.

      6) Provide armed escort while on site.

9. Provide personnel to support damage control and repair teams. ❒

   a) Ensure security personnel are signed in on ERWPs.

10. Perform Exclusion Area Evacuation Notification and Announcements. ❒

   a) Perform Public Address announcements of changes in the security situation.

   b) Assist in warning members of the general public within the Exclusion Area when an evacuation of Subzone A has been initiated.

Attachment 13 – SECURITY DIRECTOR CHECKLIST

Sheet 4 of 4

Responsibility/Activity	✓
11. Request any materials or supplies not available on site from the ALM.	☐
12. Termination of the Emergency.	☐
a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.	
b) Replenish content of your positional books.	
c) Restore facility to stand-by readiness.	
d) Inventory facility equipment as applicable.	

Attachment 14 – TSC TELECOM/COMPUTER SUPPORT CHECKLIST

Sheet 1 of 1

Position Function: Provide telecom/computer support to TSC Staff

Responsibility/Activity ✓

1. Assume the Position of TSC Telecom/Computer Support. ❒

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Perform a formal relief when permanently relieving another TSC Telecom/Computer Support.

      1) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   d) Inform a staff member when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Provide telecommunications and computer support as required to assist TSC Staff. ❒

   a) Verify operability of Voice and Video Communication Systems including the HNP PBX, wireless PBX, site radio systems, and video conferencing facility.

   b) Verify operability of the back up telephone system for each position. See Emergency Phone List , EPL-001 Section 2.5.

   c) Verify operability Plant computer systems including ERFIS.

   d) Verify operability Business computer systems including application software systems, computer network resources and PC's, printers and other devices.

   e) Direct Telecom/Computer Support to obtain assistance through HNP, Corporate or outside resources as needed to repair problems that occur with computer or communications systems.

3. Termination of the Emergency. ❒

   a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

   b) Replenish content of your positional books.

   c) Restore facility to stand-by readiness.

   d) Inventory facility equipment as applicable.

Attachment 15 – SAMG Strategy Recommendations

Sheet 1 of 1

From Guideline SAMG-_____-_____ Recommendation No. _____

Attach additional pages as necessary.

Strategy and Preferred Lineup:

Special Equipment / Resources / Manpower Required:

Special Parameters to Monitor and Limitations:

Radiation and Safety Considerations:

A. Is Venting of Radioactive Material Required? Explain.
B. Are any releases of radioactive material in progress?
C. What are the radioactive exposure hazards associated with this strategy?
D. Other safety considerations associated with this strategy?

Other Information:

Bases (including negative impacts and alternative strategies not recommended):

Evaluator: _____ / / _____

NOTE:
1. Provide the original to the SEC-TSC.
2. Forward copies to the ERM and POD.

Attachment 16 – ERFIS OPERATOR INSTRUCTIONS

Sheet 1 of 2

1. ACTIVATION OF THE LARGE SCREEN DISPLAYS:	
a) Activate the 3 large screen projectors from the black AMX touch screen controller by selecting screen display TSC1, TSC2, and TSC3.	
b) Select one of the three computers that provide the display by:	
• pressing the "Ctrl" key,	
• releasing the "Ctrl" key and then	
• selecting 1, 2, or 3 (Computer 1, 2, or 3)	
2. GENERAL INSTRUCTIONS FOR ERFIS USE:	
a) ERFIS defaults to the "MASTER MENU" screen. Press F3 or type "MENU" to return to the "MASTER MENU" from any screen	
b) Menu items may be selected by typing the TURN-ON-CODE (TOC) at the top of the screen or by selecting the menu item with the mouse and clicking	
c) Menu items that are useful for emergency preparedness are:	
ROUTINE EP DATA GROUPS:	
3TSCDAT1	DATA GR 1 FOR EMERGENCY USE IN TSC
3TSCDAT2	DATA GR 2 FOR EMERGENCY USE IN TSC
3TSCDAT3	DATA GR 3 FOR EMERGENCY USE IN TSC
3EALS	DATA FOR ACCIDENT ASSESSMENT TEAM
3DOSE	DOSE PROJECTION INFORMATION
OTHER AVAILABLE EP DATA GROUPS:	
3TSCRMS1	RAB RADIATION MONITORS
3TSCRMS2	WPB/TSC RADIATION MONITORS
3TSCRMS3	FHB RADIATION MONITORS
3TSCRMS4	CNMT, EFFLUENT, AND MISC RAD MON

OTHER AVAILABLE EP DATA GROUPS:	
GL	Group Libraries
PL	Plot Library
EP	Emergency Preparedness Function Menu
Status	Emergency Preparedness Display Menu
3. INSTRUCTIONS FOR PRINTING THE EP DATA GROUPS EVERY 15 MINUTES	
a) From the Master Menu select "Periodic Logs Menu"	
b) Select "Start Periodic Facility Log" to start the logs. They will print every 15 minutes	
c) Select "Stop Periodic Facility Log" to terminate the printing of the logs	
4. INSTRUCTIONS FOR THE REMOTE DISPLAYS IN THE NRC OVERFLOW ROOM:	
a) Turn on the video screen from the front of the monitor	
b) Select, from the wall panel behind the monitor, the desired display (TSC1, TSC2, or TSC3, video, etc.)	
5. INSTRUCTIONS FOR SECURING THE FACILITY:	
a) Stop Periodic Facility Logs	
b) Sign off ERFIS by terminating the event and logging out	
c) Turn off the overhead projectors by selecting the SHUTDOWN function from the black AMX touch screen controller.	
d) Turn off the video screen from the front of the monitor	

Attachment 17 – TSC ADMINISTRATIVE TEAM CHECKLIST

Sheet 1 of 2

Position Function: Provide administrative support to TSC Staff

Responsibility/Activity ✓

1. Assume the Position of TSC Administrative Team. ☐

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Perform a formal relief when permanently relieving another TSC Administrative Team member.

      1) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   d) Inform a staff member when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Provide the following administrative support as necessary: ☐

   a) Update facility controlled documents as appropriate.

   b) Copy ERFIS data and distribute to appropriate personnel within the facility, including the NRC, if needed.

   c) Copy Plant Parameter Information Forms and distribute to appropriate personnel within the facility, including the NRC, if ERFIS is not available.

   d) Distribute notification forms and news releases to appropriate personnel within the facility, including the NRC.

   e) Post current plant and offsite information upon a sustained loss of TSC electronic display capability, as per PEP-310.

   f) Copy and transmit information to other locations as directed.

   g) Obtain procedures and reference materials as requested.

Attachment 17 – TSC ADMINISTRATIVE TEAM CHECKLIST

Sheet 2 of 2

Responsibility/Activity	✓
3. Termination of the Emergency.	❒
a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.	
b) Replenish content of your positional books.	
c) Restore facility to stand-by readiness.	
d) Inventory facility equipment as applicable.	

Attachment 18 – TSC LOGSHEET
Sheet 1 of 1

TSC LOG

POSITION: _____

TSC	DATE:	PAGE OF
TIME	**COMMENTS**	

Upon relief, or termination of the emergency, ensure that the log is completed by checking the log for completeness, then printing and signing your name in the comments section.

PEP-240 Rev 9 Revision Summary

This revision addresses adverse condition corrective action 201074, and multiple improvement PRRs. The changes include the elimination of the requirement to maintain a facility log using ERFIS and post-drill improvements identified by Emergency Response Organization members.

Section	
3.0	Deleted the step to require personnel to obtain dosimetry upon arrival at the TSC. The RCD will determine dosimetry needs for the facility based on plant conditions. (PRR 154479)
3.0	Added statement that the activation time for minimum staffing positions in the TSC is 60 minutes from the time the notification was initiated. (PRR 170514)
5.3	Added reference to AR 201891, ERDS Activation after Terminating Connection
Attachment 1	Step 3.b.3: Notated that the TSC HP Technician initially responds to the OSC
	Step 8.c.3: Revised to evacuate non-essential personnel at an "Alert" classification level or higher to be consistent with PEP-230 and PEP-240. (PRR 209399)
Attachment 8	Revised step 1.d to add food and drinks should be removed from tabletops and easy access areas to aid in meeting no eating and drinking requirements.
	Corrected typographical error in step 7.c.2. (PRR 179281)
Attachment 9	Changed step 3 to say "When directed ensure..." versus "Ensure..." personnel obtain dosimetry to correlate with changes regarding dosimetry in Section 3.0. (PRR 154479)
Attachment 10	Revised the Communication Director function to match PLP-201, Emergency Plan by adding "perform" to the description. (PRR 176890)
	Added a sub-step to step 5 requiring the Communication's Director to transmit approved NRC worksheets to the NRC in the absence of an Emergency Communicator in the TSC. (PRR 171499)
	Revised the public address message for a General Emergency to match the wording in PEP-230 regarding eating, drinking and smoking.
Attachment 11	Revised step 4.b to state that ERDS needs to be activated within 60 minutes of an Alert or higher classification. Also referred the user to PEP-310 for guidance on ERDS activation and provided guidance on reactivating ERDS if the connection is inadvertently terminated. (AR 201891, PRR 175870, PRR 181086, PRR 205016)

PEP-240 Rev 9 Revision Summary (Continued)

Attachment 12	Revised step 2 to allow the use of a manual or electronic form for the facility log. (Corrective Action for AR 201074)
Attachment 16	Deleted the attachment. ERFIS will no longer be used to log facility activities. An electronic or manual form will be used per Attachment 12. All associated procedure steps referencing the form were also deleted. (Corrective Action for AR 201074)
Attachment 17 and 19	Renumbered due to the deletion of Attachment 16.

Progress Energy

I
INFORMATION
USE

HARRIS NUCLEAR PLANT

PLANT OPERATING MANUAL

VOLUME 2

PART 5

PROCEDURE TYPE: Plant Emergency Procedure

NUMBER: **PEP-270**

TITLE **Activation and Operation of the Emergency Operations Facility**

Table of Contents

SECTION		PAGE
1.0	PURPOSE	3
2.0	INITIATING CONDITIONS	3
3.0	GENERAL	3
4.0	PROCEDURE STEPS	5
5.0	REFERENCES	6
6.0	DIAGRAMS/ATTACHMENTS	6
	Attachment 1: Emergency Response Manager Checklist	7
	Attachment 2: Emergency Preparedness Advisor Checklist	13
	Attachment 3: Radiological Control Manager Checklist	15
	Attachment 4: Technical Advisor Checklist	19
	Attachment 5: Dose Projection Team Leader Checklist	21
	Attachment 6: Dose Projection Team Member Checklist	24
	Attachment 7: Environmental Field Coordinator Checklist	25
	Attachment 8: Environmental Team Member Checklist	29
	Attachment 9: EOF HP Technician Checklist	30
	Attachment 10: Communications Manager Checklist	36
	Attachment 11: Emergency Communicator-State/County Checklist	39
	Attachment 12: Emergency Communicator-Corp Comm/JIC Checklist	41
	Attachment 13: News Coordinator Checklist	43
	Attachment 14: Rep - State/County EOC Checklist	47
	Attachment 15: Technical Analysis Manager Checklist	49
	Attachment 16: EOF Senior Reactor Operator Checklist	51
	Attachment 17: EOF Accident Assessment Team Checklist	54
	Attachment 18: EOF ERFIS Operator Checklist	56
	Attachment 19: Administrative And Logistics Manager Checklist	57
	Attachment 20: Administrative Team Leader Checklist	61
	Attachment 21: EOF Logkeeper Checklist	63
	Attachment 22: Assembly Area Leader Checklist	64
	Attachment 23: EOF Telecom/Computer Support Checklist	66
	Attachment 24: ERFIS Operator Instructions	67
	Attachment 25: EOF Log Sheet	69

1.0 PURPOSE

1. This procedure implements Section 2.4 and Section 3.5 of the Emergency Plan PLP-201.

2. It specifies the actions taken by Emergency Response Organization (ERO) personnel who report to the Emergency Operations Facility (EOF).

2.0 INITIATING CONDITIONS

1. An Alert or higher classification has been declared.

2. A decision has been made to activate the EOF.

3.0 GENERAL

1. Prior to activation, the SEC-MCR may assign support functions to the EOF as deemed necessary to relieve on-shift personnel.

2. The EOF must meet minimum staffing requirements for activation prior to the ERM relieving the SEC-MCR of his portion of emergency management responsibilities. Both the TSC and EOF will need to activate together.

    a. The activation time for minimum staffing positions in the EOF is 60 minutes from the time the notification was initiated.

3. If a position with an augmentation time requirement is not filled, a supervisory position may fulfill the responsibilities provided they are trained to perform the assigned activities of that position. For example: the Communications Manager could perform the duties of the State and County Communicator.

4. Logkeeping

    a. Individual logs and facility logs are legal records of activities that occurred during an emergency. It is vital that they are as complete as possible.

    b. Logs should include such information as:

        1) Times of major events and subsequent actions taken (such as, change in emergency classifications, fission product barrier status, discovery of an unplanned radiological release).

        2) Times and content of important communications with other members of the ERO that are related to major events (such as, decisions made during turnover or routine briefings and subsequent actions taken).

        3) Specific actions taken to mitigate equipment failures, contain chemical or radiological spills or fires, and so forth.

4) Specific references to Emergency Radiation Work Permits, clearances, procedure deviations authorized emergency radiation exposures authorized, and so forth.

5) All records shall be legible and completed in dark pencil or dark ink.

6) To make corrections to records, place a single line through the incorrect entry, initial and date the line-through and clearly enter the correct information near the lined-through data or attach additional pages as needed.

c. Preparation of Activity Logs

1) Initiate 'Log' as follows:

- DATE: Enter the date that the log sheet is initiated.
- PAGE OF: Enter "1" on the first page and sequential numbers on the following pages as they are used.
- POSITION: Enter the position title.

2) Enter chronologically those events that are pertinent to the particular individual or organizations:

- TIME: Record the time (using the 24 hour clock) that a message or information was received or action was taken.
- SUMMARY OF ACTIVITY PERFORMED: Briefly record the incident, message, or order received or transmitted. Indicate the time of the incident and actions taken.

3) Upon relief from the position, or termination of the emergency, complete the log as follows:

- PAGE OF : Enter the total number of pages used at the top of each page (that is, Page 1 of **12**, Page 2 of **12**, and so forth).
- NAME AND SIGNATURE: Check the log for completeness, then in the Comments Section of the last page used in the log, print and sign your name.

4) The person relieving the position will initiate and maintain a new log and any previously prepared logs to allow for continuity of the position.

5) Upon termination of the emergency or exercise/drill, provide all completed logs to Emergency Preparedness.

4.0 PROCEDURE STEPS

NOTE: The steps in the checklists may be performed in any order, or more than once, as necessary.

1. Attachments 1-23 are to be used as guidance for the positions listed below.
2. If an action is not appropriate under existing conditions or was not necessary for the event enter N/A when completing documentation for submittal.
3. Attachment 24 is used by the ERFIS Operator to display ERFIS data.
4. Attachment 25 is the Facility Log sheet.

IF YOUR ERO POSITION IS:	REFER TO POSITIONAL ATTACHMENTS
EMERGENCY RESPONSE MANAGER (ERM)	PEP-270 Att 1 PEP-110 Att 4
EMERGENCY PREPAREDNESS ADVISOR	PEP-270 Att 2 PEP-110 Att 4
RADIOLOGICAL CONTROL MANAGER (RCM)	PEP-270 Att 3 PEP-110 Att 4
TECHNICAL ADVISOR	PEP-270 Att 4
DOSE PROJECTION TEAM LEADER (DPTL)	PEP-270 Att 5 PEP-110 Att 4
DOSE PROJECTION TEAM MEMBER	PEP-270 Att 6
ENVIRONMENTAL FIELD COORDINATOR (EFC)	PEP-270 Att 7
ENVIRONMENTAL TEAM MEMBER	PEP-270 Att 8
EOF HP TECHNICIAN	PEP-270 Att 9
COMMUNICATIONS MANAGER (CM)	PEP-270 Att 10 PEP-310 Att 1-5 PEP-310 Att 12
EMERGENCY COMMUNICATOR-STATE/COUNTY	PEP-270 Att 11
EMERGENCY COMMUNICATOR-CORP COMM/JIC	PEP-270 Att 12
NEWS COORDINATOR	PEP-270 Att 13
REP - STATE/COUNTY EOC	PEP-270 Att 14
TECHNICAL ANALYSIS MANAGER (TAM)	PEP-270 Att 15
EOF SENIOR REACTOR OPERATOR	PEP-270 Att 16
EOF ACCIDENT ASSESSMENT TEAM (EOF AAT)	PEP-270 Att 17
EOF ERFIS OPERATOR	PEP-270 Att 18 PEP-270 Att 24
ADMINISTRATIVE AND LOGISTICS MANAGER (ALM)	PEP-270 Att 19
ADMINISTRATIVE TEAM LEADER	PEP-270 Att 20
EOF LOGKEEPER	PEP-270 Att 21
ASSEMBLY AREA LEADER (AAL)	PEP-270 Att 22
EOF TELECOM/COMPUTER SUPPORT	PEP-270 Att 23

5.0 REFERENCES

5.1 Emergency Plan (PLP-201) References

1. Section 2.4, “Assignment of Responsibilities”
2. Section 3.5, “Emergency Operations Facility”

5.2 Referenced Plant Emergency Procedures

1. PEP-110, "Emergency Classification and Protective Action Recommendations"
2. PEP-310, “Notifications and Communications”
3. PEP-330, "Radiological Consequences"
4. PEP-500, "Recovery"

5.3 Other References

1. EPL-001, “Emergency Phone List”

6.0 DIAGRAMS/ATTACHMENTS

See Table of Contents

Attachment 1- EMERGENCY RESPONSE MANAGER CHECKLIST

Sheet 1 of 6

Position Function: Provide overall authority for the direction and management of the Progress Energy response to an incident requiring implementation of the HNP Emergency Plan and command and control of the offsite emergency response.

Responsibility/Activity ✓

1. Assume the Position of Emergency Response Manager ❒

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Determine if restrictions on eating and drinking are in effect and ensure EOF personnel are aware of the restrictions. Remove food and drinks from tabletops and easy access areas to aid in meeting this restriction.

   d) Perform a formal relief when permanently relieving another ERM.

      1) Review the activity log.

      2) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   e) Inform a staff member when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Direct the EOF Logkeeper to maintain a facility log ❒

Responsibility/Activity ✓

3. Evaluate the adequacy of the EOF staff for activation. Minimum staffing includes: ❒

   - ERM
   - Emergency Preparedness Advisor
   - Radiological Control Manager
   - Dose Projection Team Leader
   - Environmental Monitoring personnel (4)
   - EOF HP Tech (initially reports to the OSC)
   - Communications Manager
   - Emergency Communicator - State/County
   - News Coordinator
   - Technical Analysis Manager
   - Admin and Logistics Manager

4. Activate the Facility ❒

NOTE: If a Security Threat/Event has been declared the responding OSC and TSC personnel may be directed to take shelter in place or assemble at the alternate assembly areas located at the Harris E&EC/EOF area.

   a) Assume command and control of the EOF.

NOTE: Formal authorization must be provided by the ERM when filling an EOF position with an individual not listed on the active ERO roster (EPL-001).

   1) Direct the arriving EOF staff to prepare for facility activation and the assumption of emergency response duties (offsite and industry notifications, emergency classifications, dose assessment and PARs, and long term accident assessment and mitigation).

      - Direct the EOF SRO to monitor fission product barrier and plant status.
      - Direct the RCM to monitor radioactive release pathways.

   2) Ensure communications have been established with the TSC, State and County EOCs, and Corporate Communications (or the JIC as applicable).

Responsibility/Activity ✓

3) Contact the SEC-TSC to discuss the status of plant conditions and coordinate preparation for turnover of responsibilities from the SEC-CR.

4) Conduct a turnover conference call with the TSC and MCR (utilizing PEP-110 Attachment 4) to relieve the SEC-CR of the following responsibilities:

- Formal notifications and communications with State and County officials.
- Offsite Protective Action Recommendations.
- Offsite dose projection.
- Coordination of Environmental Monitoring Teams.
- Notifications to other offsite organizations.
- Approval of Progress Energy press releases.
- Additional augmentation of the Progress Energy ERO.

b) Ensure the other facilities and response organizations are notified of the EOF activation.

5. Review and Approve Emergency Notification Forms (non-delegable) ❒

NOTE: Upgrading classification of the emergency should be performed as soon as verification of changed conditions is established but should not be beyond 15 minutes of recognition.

a) Review plant conditions and maintain awareness of changes to the classification levels made by the SEC-TSC.

b) Ensure formal initial and follow-up notifications are routinely provided to State and local agencies.

1) Review, edit and approve messages prior to release.

2) Ensure the CM performs notifications to the State and County authorities whenever an emergency is reclassified.

Responsibility/Activity ✓

> **NOTE:** Where lasting damage has occurred to the fission product barriers or to safety systems, transition to recovery based upon the criteria contained in PEP-500 rather than simply downgrading the emergency.

c) Consult with State and County authorities prior to downgrading or terminating from a General Emergency.

6. Determine Appropriate PARs (non-delegable) ☐

a) Determine the appropriate PAR per PEP-110.

> **NOTE:** Sheltering may be an appropriate action for controlled releases of radioactive material from the containment, if there is assurance that the release is short term (puff release) and the area near the plant cannot be evacuated before the plume arrives.

b) Reevaluate the adequacy of PARs when plant conditions, dose projection, meteorological, or environmental measurements change.

c) Confer with State authorities prior to PAR issuance if possible.

> **NOTE:** News releases do not have to be approved by the ERM if they contain only the JIC activation time, media/public inquiry telephone numbers, or media briefing times.

> **NOTE:** These non-technical news releases are prepared by the JIC Director once the JIC is activated.

7. Review and approve Progress Energy news releases prior to issuance (non-delegable). ☐

8. Authorize offsite HNP emergency worker exposures > 5 Rem TEDE or entry into fields > 25 Rem/Hr. ☐

9. Authorize the administration of KI to offsite HNP emergency workers when calculated or estimated doses to the thyroid will exceed 50 rem CDE. ☐

10. Review and approve the Severe Accident Management Strategy recommended by the TSC. ☐

a) Evaluate the offsite consequences.

Responsibility/Activity ✓

11. Conduct periodic briefings of State and local officials in the EOF on plant conditions and response activities. ☐

    a) Ensure verbal updates on the emergency condition are provided to the State and Counties at approximately 30 to 60 minute intervals, or more frequently as conditions warrant.

    b) Consult with Wake County or State personnel if decontamination of site personnel and/or vehicles can not be achieved.

    c) Notify Wake County or State personnel of the evacuation of contaminated site individuals and determine if monitoring and decontamination stations are in place.

    d) Notify Wake County or State personnel to discuss whether relocation of site personnel to an off site assembly area should occur.

12. Designate appropriate personnel (i.e. SRO, TAM) to prepare information to brief the NRC Site Team, if a briefing is requested by the NRC, ☐

13. Request assistance from Federal agencies in support of HNP response efforts. ☐

14. Maintain communications with the SEC-TSC to discuss plant conditions and on and off site response actions. ☐

15. Ensure the CM notifies appropriate offsite plant support agencies. ☐

    a) Ensure the CM notifies INPO and ANI within 4 hours of the declaration of an Alert or higher classification level.

    b) Ensure the CM notifies Nuclear Mutual Limited of any fire damage to HNP equipment.

    c) Approve notifications to INPO and ANI prior to transmission.

16. Establish Time Periods for and Conduct Periodic Facility Briefings ☐

    a) Conduct briefings using the Event Information Worksheet (PEP-110) as a guide.

    b) Establish briefing periods at approximately 30 to 60 minute intervals or as conditions change.

c) Instruct the EOF Log keeper to keep track of briefing times and to provide prompts when briefings are due.

17. Request any materials or supplies not available on site from the ALM or Admin Team. ❒

a) Direct the ALM to develop shift relief schedules for Progress Energy ERO personnel.

b) Coordinate onsite requests for support and resources with offsite services and organizations.

c) Determine the need for additional assistance and direct the ALM/TAM to coordinate with the appropriate agency or company.

18. Conduct Recovery Operations per PEP-500 when appropriate. ❒

19. Termination of the emergency ❒

a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

b) Replenish content of your position book.

c) Restore the facility to stand-by readiness.

d) Inventory facility equipment if applicable.

Attachment 2- EMERGENCY PREPAREDNESS ADVISOR CHECKLIST

Sheet 1 of 2

Position Function: Provide guidance and information on the implementation of the Emergency Plan and procedure activities.

Responsibility/Activity ✓

1. Assume the position of Emergency Preparedness Advisor. ☐

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Perform a formal relief when permanently relieving another EP Advisor.

      1) Review the activity log.

      2) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   d) Inform a staff member when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Maintain a log of activities (Attachment 25). ☐

3. Ensure that ERO personnel are performing their duties as defined by the appropriate PEPs. ☐

   a) Assist with the activation of the ERFs.

      1) Verify that the EOF Security Guard is notified of the EOF activation announcement.

   b) Assist the ALM in arranging the arrival, transportation, lodging, plant access, and food for personnel involved in the emergency.

   c) Review the checklists of key EOF personnel to verify required activities are completed and assist as necessary.

Attachment 2- EMERGENCY PREPAREDNESS ADVISOR CHECKLIST

Sheet 2 of 2

Responsibility/Activity	✓
4. Coordinate the arrival of NRC and State/Local representatives with the ALM.	☐
a) Ensure that the NRC and State/Local representatives are integrated into the facility. Integration into the facility means that the team has open access to the facility.	
b) Familiarize off site officials with work locations, phones and facilities.	
5. Maintain periodic contact with Progress Energy Reps to the State and County EOC.	☐
6. Monitor status boards for accuracy.	☐
7. Participate in facility staff briefings.	☐
8. Request any materials or supplies not available on site from the ALM or Admin Team.	☐
9. Termination of the emergency	☐
a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.	
b) Replenish content of your position book.	
c) Restore the facility to stand-by readiness.	
d) Inventory facility equipment if applicable.	

Attachment 3 - RADIOLOGICAL CONTROL MANAGER CHECKLIST

Sheet 1 of 4

Position Function: Direct and supervise the offsite radiological assessment and monitoring emergency response actions.

Responsibility/Activity ✓

1. Assume the position of Radiological Control Manager. ❒

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Evaluate the need for dosimetry and inform the EOF-ERM.

      1) Direct personnel to obtain dosimetry from the dosimetry cabinet.

      2) Direct the RC technician to record EOF personnel dosimetry data on PEP-330 Attachment 12.

      3) Do not delay facility activation to issue dosimetry.

   d) Determine if restrictions on eating and drinking are in effect and ensure the Emergency Response Manager and EOF personnel are aware of the restrictions. Remove food and drinks from tabletops and easy access areas to aid in meeting restriction.

   e) Perform a formal relief when permanently relieving another RCM.

      1) Review the activity log.

      2) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   f) Inform a staff member when temporarily leaving the work area (such as tothe restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Maintain a log of activities. (Attachment 25) ❒

3. Facility Activation ❒

   a) Relieve the MCR of dose assessment responsibilities as soon as possible.

Responsibility/Activity ✓

NOTE: Emergency release is defined as any unplanned quantifiable discharge to the environment of radioactive effluent attributable to a declared emergency event.

b) Determine if a release is in progress.

4. Develop and provide recommendations for EAL and classification level changes based on radiological considerations to the ERM. ❒

   a) Compare dose projection and field survey results with EAL criteria to determine the impact on the existing classification level.

   b) Notify the ERM of any EALs affected by changes in radiological conditions.

5. Develop and provide recommendations for offsite PARs based on radiological considerations to the ERM. ❒

NOTE:
- Sheltering may be an appropriate action for controlled releases of radioactive material from the containment, if there is assurance that the release is short term (puff release) and the area near the plant cannot be evacuated before the plume arrives.
- KI should be a consideration if dose assessment or projection results indicate offsite dose > 5 rem CDE to the adult thyroid.

a) Document HNP PAR's whenever a General Emergency is declared.

6. Coordinate and direct the dose assessment and environmental monitoring efforts. ❒

   a) Supervise the activities of the Technical Advisor and the Dose Projection Team Leader.

   b) Obtain plant status information from the ERM and conduct periodic briefings with the DPTL with respect to current plant status utilizing PEP-110 Attachment 4.

   c) Ensure the Emergency Telecommunication System (ETS) is manned when requested by the NRC (principally by the Technical Advisor position).

   d) Determine the periodicity of dose projection calculations.

   e) Analyze dose assessment and environmental information to determine any actual or potential offsite consequences of the event.

Responsibility/Activity ✓

1) Ensure environmental monitoring is performed to confirm dose projections.

2) Verify that projected dose is compared with actual readings.

f) Conduct periodic briefings with the ERM to discuss the status of offsite radiological information and assessments.

g) Compare dose assessment and environmental monitoring efforts with the State Division of Radiation Protection in the State EOC and/or in the EOF

h) Compare dose assessment and environmental monitoring efforts with the NRC Environmental Dose Assessment Coordinator once the NRC Site Team is in the EOF.

7. Determine and direct the requirements for offsite emergency exposure and contamination controls. ❒

a) Evaluate the need for and coordinate the authorization of the allowance of offsite HNP emergency worker exposures > 5 Rem TEDE or entry into radiation fields greater than 25 rem/hr.

NOTE: ALARA considerations should be given for the protective ventilation envelope found within the EOF.

b) Coordinate the authorization of the administration and issuance of KI to offsite HNP Emergency workers when calculated or estimated doses to the thyroid will exceed 50 rem CDE.

c) Determine the appropriate use of protective clothing and respiratory protection equipment.

d) Ensure personnel decontamination activities are conducted as necessary.

e) Ensure appropriate bioassay procedures are implemented or developed to support the event.

8. Determine and direct EOF habitability controls ❒

a) Ensure habitability surveys are performed in the EOF as per PEP-330.

b) Ensure EOF food and drinking water supplies are consumable.

c) Provide a recommendation on whether to ban eating, drinking or smoking until further notice, at the declaration of a General Emergency.

Responsibility/Activity ✓

9. Ensure the activation of the EOF ventilation system, if needed. ☐

10. Maintain communications with the Radiological Control Director to discuss radiological conditions and on site and off site response actions. ☐

    a) Periodically contact the RCD to provide updates on new dose projections, results of environmental monitoring and to provide technical assistance as needed.

11. Request any materials or supplies not available on site from the ALM or Admin Team. ☐

    a) Request assistance for radiological monitoring support from outside sources as necessary.

    b) Coordinate with the ALM to provide additional environmental monitoring team members to support State monitoring activities upon request from the State Division of Radiation Protection.

12. Determine and establish controls for the storage and shipment of radioactive waste generated as a result of the event. ☐

    a) Coordinate the design of special packaging required for the transport of radioactive wastes resulting from the emergency.

13. Termination of the emergency ☐

    a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

    b) Replenish content of your position book.

    c) Restore the facility to stand-by readiness.

    d) Inventory facility equipment if applicable.

Attachment 4 - TECHNICAL ADVISOR CHECKLIST

Sheet 1 of 2

Position Function: Assist the RCM in fulfilling the radiological assessment and monitoring functions.

Responsibility/Activity ✓

1. Assume the position of Technical Advisor. ☐

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Perform a formal relief when permanently relieving another Technical Advisor.

      1) Review the RCM's activity log.

      2) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   d) Inform the RCM when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Assist the RCM and DPTL in expediting the initial activities necessary to make the EOF ready for activation. ☐

NOTE: Facility status boards are formatted to support NRC ETS information communications.

3. Upon request from the NRC, continuously man the ETS line and provide radiological information using the status boards as a guide. ☐

4. Request any materials or supplies not available on site from the ALM or Admin Team. ☐

Responsibility/Activity ✓

5. Termination of the emergency ❒

   a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

   b) Replenish content of your position book.

   c) Restore the facility to stand-by readiness.

   d) Inventory facility equipment if applicable.

Attachment 5 - DOSE PROJECTION TEAM LEADER CHECKLIST

Sheet 1 of 3

Position Function: Coordinate and supervise the activities of the dose projection and environmental monitoring personnel and the EOF HP Technician.

Responsibility/Activity ✓

1. Assume the position of Dose Projection Team Leader. ❒

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Perform a formal relief when permanently relieving another Dose Projection Team Leader.

      1) Review the activity log.

      2) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   d) Inform a staff member when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Maintain a log of activities. (Attachment 25) ❒

3. Facility activation. ❒

   a) Relieve the MCR of dose projection responsibilities as soon as possible.

> **NOTE:** Emergency release is defined as any unplanned quantifiable discharge to the environment of radioactive effluent attributable to a declared emergency event.

   b) Determine if a release is in progress.

   c) Ensure communications with the RCD are operable.

   d) Assign personnel to track and post meteorological and radiological data in the main room of the EOF.

Responsibility/Activity ✓

4. Perform offsite dose assessment to determine actual or potential consequences of the event. ☐

   a) Assign personnel to conduct source term and offsite dose calculations.

   b) Obtain current and forecast meteorological information.

      1) Obtain met data from the plant met system or the contracted meteorological services vendor.

   c) Obtain field survey and sample data necessary for dose projection activities from the Environmental Field Coordinator.

   d) Provide results of offsite dose analysis consistent with the information necessary to develop dose based PARs.

      1) Prepare an Offsite PAR Worksheet for the RCM at the declaration of a General Emergency.

   e) Perform dose calculations which are based on actual and adverse meteorological conditions. (Adverse meteorological looks at the worst case met conditions; 'G' stability class and wind speed of 1.0 mph).

   f) Document and post dose projection results and meteorological data following RCM review and approval.

   g) Recalculate actual dose projections at least once per hour or whenever significant radiological or meteorological changes occur.

5. Ensure habitability is established and periodic monitoring is conducted in the EOF as necessary. ☐

6. Ensure personnel monitoring is conducted in the EOF as necessary. ☐

7. Develop a field team deployment strategy to coordinate dose assessment and environmental monitoring activities. ☐

   a) Ensure the Environmental Field Coordinator directs the field teams in a manner which will provide the data necessary for dose projection activities.

   b) Ensure the Environmental Field Coordinator has taken appropriate radiological precautions when directing the field team activities.

Responsibility/Activity ✓

NOTE: ALARA considerations should be given for the protective ventilation envelope found within the EOF.

8. Control the specified issuance of KI to offsite emergency workers when calculated or estimated doses to the thyroid will exceed 50 rem CDE. ☐

   a) Direct team members to administer KI to EOF, Environmental Monitoring teams, Security and other trained response personnel outside the protected area.

   b) Record KI issuance information.

   c) Evaluate iodine uptakes for persons issued KI.

9. Conduct frequent discussions with State and Federal counterparts located in the EOF to compare information and coordinate monitoring activities. ☐

10. Request any materials or supplies not available on site from the ALM or Admin Team. ☐

11. Termination of the emergency ☐

    a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

    b) Replenish content of your position book.

    c) Restore the facility to stand-by readiness.

    d) Inventory facility equipment if applicable.

Attachment 6 - DOSE PROJECTION TEAM MEMBER CHECKLIST

Sheet 1 of 1

Position Function: Perform dose assessment as directed by the Dose Projection Team Leader.

Responsibility/Activity ✓

1. Assume the position of Dose Projection Team Member. ☐

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Perform a formal relief when permanently relieving another Dose Projection Team Member.

      1) Review the DPTL's activity log.

      2) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   d) Inform DPTL when temporarily leaving the work area (such as to the restroom).

2. Activate the dose assessment computer model. ☐

3. Provide dose assessment results to the Dose Projection Team Leader. ☐

   a) Based on actual meteorological data.

   b) Based on adverse met (Adverse meteorological looks at the worst case met conditions; 'G' stability class and wind speed of 1.0 mph).

4. Perform additional dose assessment related duties as instructed by the Dose Projection Team Leader. ☐

   a) Update the Dose Projection/PAR Status boards in the EOF Command Room

5. Request any materials or supplies not available on site from the ALM or Admin Team. ☐

6. Termination of the emergency ☐

   a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

   b) Replenish content of your position book.

   c) Restore the facility to stand-by readiness.

   d) Inventory facility equipment if applicable.

Attachment 7 - ENVIRONMENTAL FIELD COORDINATOR CHECKLIST

Sheet 1 of 4

Position Function: Coordinate and supervise the offsite radiological environmental monitoring emergency response actions.

Responsibility/Activity ✓

1. Assume the position of Environmental Field Coordinator. ☐

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Perform a formal relief when permanently relieving another Environmental Field Coordinator.

      1) Review the activity log.

      2) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   d) Inform a staff member when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Maintain a log of activities. (Attachment 25) ☐

3. Obtain meteorological data from the DPTL, ERFIS or the contracted meteorological services vendor. ☐

4. Supervise the activities of the plant Environmental Monitoring Teams. ☐

   a) Ensure field team personnel are properly briefed and dispatched.

   b) Position teams downwind of the plant to take initial surveys prior to any release if possible.

   c) Implement the field team deployment strategy to obtain representative environmental information.

NOTE: Locations nearest the site boundary should have priority for environmental surveys.

Responsibility/Activity ✓

1) Direct field teams to survey the plume dose rates at various distances.

2) Attempt to determine plume width at various distances.

3) Obtain air samples of the plume for iodine analysis as soon as feasible.

4) Direct monitoring and sampling to assess ground deposition after plume passage.

d) Ensure dispatched teams are periodically briefed on plant conditions.

e) Maintain accountability of dispatched field team personnel.

1) Maintain a list of personnel assigned to each environmental monitoring team and their locations.

f) Control the specified issuance of KI to field team personnel.

1) Direct team members to administer KI, as per PEP-330.

2) Record KI issuance information.

3) Evaluate iodine uptakes for persons issued KI.

g) Determine and direct the placement of emergency environmental TLDs.

h) Inform the DPTL if additional personnel or resources are needed.

5. Coordinate offsite field survey and monitoring efforts with the State to maximize resources. ☐

a) Provide meteorological, radiological and release information to State environmental monitoring personnel.

6. Coordinate the assessment and analysis of field environmental samples with the HEEC and/or Radiation Protection Section (RPS) as appropriate. ☐

Note: The RPS defines 1mrem/hr on contact with an environmental sample "Hot" or "High Risk". Hot samples should be identified to the Mobile Laboratory upon receipt.

Responsibility/Activity ✓

a) Sample delivery by the teams

1) Contact the RPS's Mobile Lab Coordinator and inform him/her of the estimated time of arrival (ETA) for Progress Energy Environmental Monitoring Teams.

2) Request the location of the RPS's Mobile Lab and relay this to the Progress Energy Environmental Monitoring Teams.

3) Ensure the samples delivered to the Mobile Lab are labeled correctly.

4) Direct Progress Energy Environmental Monitoring Teams back into the field or to a designated area for decontamination and debrief.

b) Sample delivery by a courier

1) Contact the RPS's Mobile Laboratory Coordinator and agree upon a low dose/contamination area location for sample exchange.

2) Provide this location to Progress Energy Environmental Monitoring Teams and ensure they monitor the area upon arrival.

3) Ensure the samples delivered to the courier are labeled correctly.

4) Direct Progress Energy Environmental Monitoring Teams back into the field or to a designated area for decontamination and debrief.

c) Sample delivery to the HEEC

Note: Environmental samples ≥1 mrem/hr will not be delivered to the Harris E&E Center for analysis.

1) Contact the HEEC Lab and inform them of the ETA of Progress Energy Environmental Monitoring Teams.

2) Ensure the samples are labeled correctly.

3) Dispatch an HP Technician to the HEEC Lab to assist in the setup and handling of the radioactive samples.

4) Direct Progress Energy Environmental Monitoring Teams back into the field or to a designated area for decontamination and debrief.

Responsibility/Activity ✓

d) Request lab results from the RPS's Mobile Lab and/or the HEEC.

e) Provide the results of field team surveys and samples to the DPTL.

f) Evaluate sample results with EPA PAGs.

g) Notify the DPTL of any emergency planning Subzones exceeding EPA PAGs as indicated by environmental measurement.

7. Request any materials or supplies not available on site from the ALM or Admin Team. ❒

8. Termination of the emergency ❒

a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

b) Replenish content of your position book.

c) Restore the facility to stand-by readiness.

d) Inventory facility equipment if applicable.

Attachment 8 - ENVIRONMENTAL TEAM MEMBER CHECKLIST

Sheet 1 of 1

Position Function: Conduct of offsite plume tracking, monitoring and sampling activities.

Responsibility/Activity	✓
1. Assume the position of Environmental Team Member.	❒
a) Sign in on the facility organization chart.	
b) Obtain the positional notebook/binder from the storage area.	
c) Assemble, obtain equipment, perform checks, obtain a briefing and proceed to the designated monitoring location.	
2. Monitor radiation exposure levels and obtain guidance for entry into areas which exceed pre-established levels.	❒
3. Obtain air samples and measure air activity, when appropriate.	❒
4. Survey and record ambient radiation levels.	❒
5. Distribute emergency environmental TLDs.	❒
6. Collect label and transport environmental samples.	❒
7. Advise, instruct and issue KI to field team members as directed.	❒
8. Return to the staging area and perform inventories.	❒
9. Termination of the emergency	❒
a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.	
b) Replenish content of your position book.	
c) Restore the facility to stand-by readiness.	
d) Inventory facility equipment if applicable.	

Attachment 9 - EOF HP TECHNICIAN CHECKLIST

Sheet 1 of 6

Position Function: Perform radiological control activities for the EOF.

Responsibility/Activity ✓

1. Assume the position of EOF HP Technician. ☐

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Notify the Radiation Control Manager (RCM) of arrival.

   d) Perform a formal relief when permanently relieving another EOF HP Technician.

   e) Inform RCM when temporarily leaving the EOF.

2. When directed, ensure EOF personnel have retrieved dosimetry from the Emergency Personnel Dosimetry Cabinet and that all responding personnel have either a Self Reading Pocket Dosimeter (SRPD) or electronic dosimeter (EPD). Record applicable data on PEP-330 Attachment 12. If personnel have assigned TLD with him/her do not issue another facility TLD. ☐

3. Response check survey instruments. ☐

4. Confirm proper EOF ventilation system Radiation Monitoring operability, per Part 1, Sheet 4 of this Attachment. ☐

5. Confirm proper EOF ventilation system line-up, per Part 2, Sheet 4 of this Attachment. ☐

6. Start the EOF ventilation system if directed, per Part 3, Sheet 4 of this Attachment. ☐

7. Monitor the EOF ventilation system's radiation monitor approximately every hour during a known release per Sheet 5 of this Attachment. ☐

8. Shut down the EOF ventilation, if directed, per Part 4 Sheet 4 of this Attachment. ☐

9. Activate a frisker at the security station entrance to the EOF. ☐

   a) Post signs at the EOF entrance requiring personnel to frisk and the instructions for performing the frisk, if applicable.

   b) Inform the security guard that frisking is required and request that they notify the RCM if the frisker alarms.

10. Perform EOF habitability surveys. ☐

    a) Perform EOF air samples when directed.

    b) Report the results of EOF habitability surveys to the RCM.

Responsibility/Activity ✓

11. Facility Deactivation. ☐

    a) Return all radiological equipment and supplies to the appropriate storage locations and perform inventories.

    b) Shutdown the EOF ventilation system and return to the normal mode, per Part 4, sheet 4 of this Attachment, if applicable.

    c) Collect dosimetry, record SRPD or EPD readings on PEP-330 Attachment 12 and forward EOF issued TLDs to dosimetry for processing.

    d) Complete all records and surveys and provide them to the RCM.

12. Termination of the emergency ☐

    a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

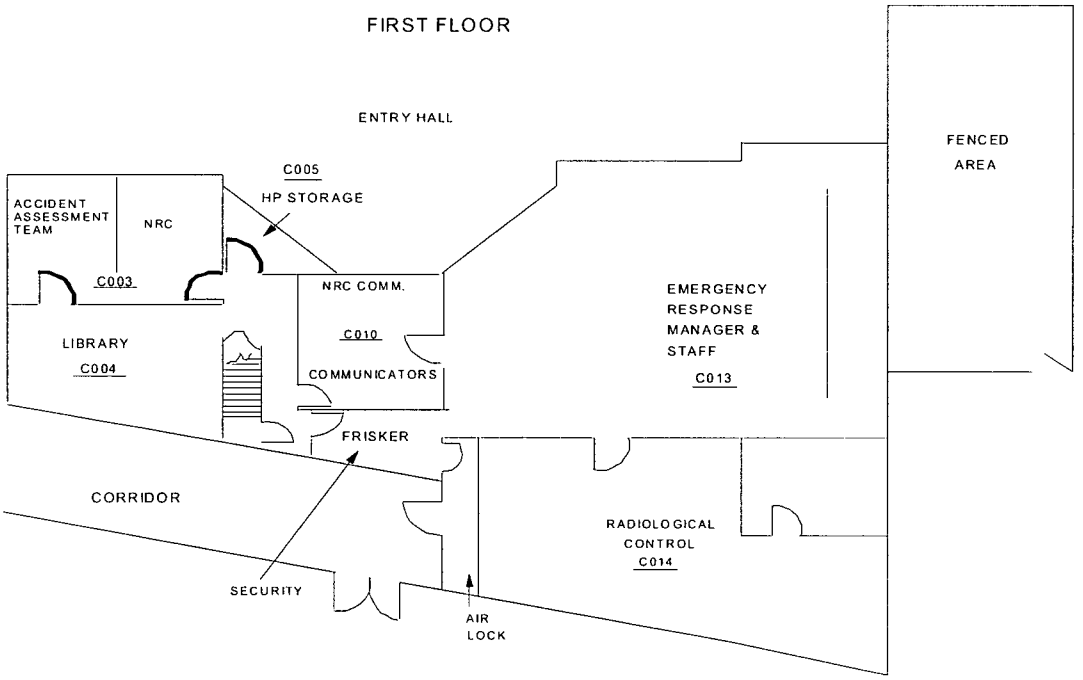
    b) Replenish content of your positional notebook/binder.

    c) Restore the facility to stand-by readiness.

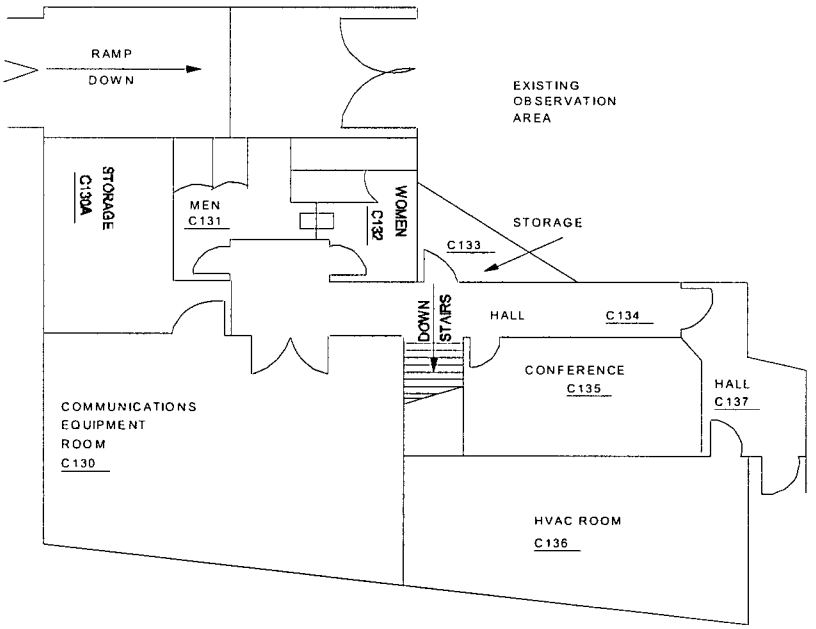
    d) Inventory facility equipment, if applicable.

EOF FLOOR PLAN

FIRST FLOOR



SECOND FLOOR



EOF VENTILATION SYSTEM STATUS CHECKLIST

PART 1: Check system operation (NORMAL MODE) on the EOF Ventilation System Radiation Monitor in the Radiological Control Room (C014) as follows:

1 Check that the large green OPERATE light (15) is ON. ☐

2 Check that the small green LED "OPER" lights (14) are on for channels 1 and 2. ☐

3 Perform a source test. (Key for source test is located in the EOF Library key box)

a) Press channel 1 button (16) ☐

b) Press the C/S BUTTON (17) then RELEASE. ☐

1) After a few seconds delay, the button will light. ☐

2) When the C/S BUTTON light goes out, the LED OPERATE light should continue to burn. ☐

3) If not, the channel has failed the source check.

c) Select channel 2 (13) and repeat the process (step 3.b.) ☐

d) Report system Operational or Non-Operational to the Radiation Control Manager. ☐

PART 2: Check system pre-operational lineup in the HVAC Room (C136) as follows:

1. Check the Ventilation System Control Panel (1). ☐

a) Check that the MAINT. SWITCH is in NORMAL (9). ☐

b) Check that the Green NORMAL MODE light is ON (2). ☐

2. Check that the CHARCOAL TEST CANISTERS (3) isolation valves are closed. ☐

3. Verify EMERGENCY FAN breaker box (4) disconnect switch to closed (ON) position (located on wall behind emergency fan). ☐

4. Verify EMERGENCY FAN CONTROL BOX button (5) to AUTO position (button is pushed in)(located below the emergency fan breaker box). ☐

5. Verify CIRCUIT BREAKER NO. 26 (6) to ON (located in electrical PANEL 'P on the wall beside HVAC room entrance). ☐

6. Report system Operational or Non-Operational to the Radiation Control Manager. ☐

PART 3: Start of System in the HVAC Room (C136) as follows:

1. Turn the SYSTEM MODE SWITCH (7) to MANUAL (located on the Ventilation System Control Panel). ☐

2. Verify that NUCLEAR DAMPER D2 and D3 are in the emergency position ☐

3. In the Radiological Control Room (C014) confirm that the large red HEPA FILTER MODE light (12) on the EOF Ventilation System Radiation Monitor (10) is on. ☐

4. Report system Operational or Non-Operational to the Radiation Control Manager. ☐

PART 4: Shutdown the emergency ventilation in the HVAC Room (C136) as follows:

1. Press the SYS RESET button (8). ☐

2. Verify the EMERGENCY FAN stopped. ☐

3. Verify NUCLEAR DAMPER D2 shifted to NORMAL POSITION. ☐

4. Verify NUCLEAR DAMPER D3 shifted to NORMAL POSITION CLOSED. ☐

EOF VENTILATION SYSTEM RADIATION MONITOR LOG

Page _____ of _____

Date/Time	Reading µCi/cc No. 1	Reading µCi/cc No. 2	Status Lights (G, Y, R) No. 1	Status Lights (G, Y, R) No. 2

Channel Status Lights:

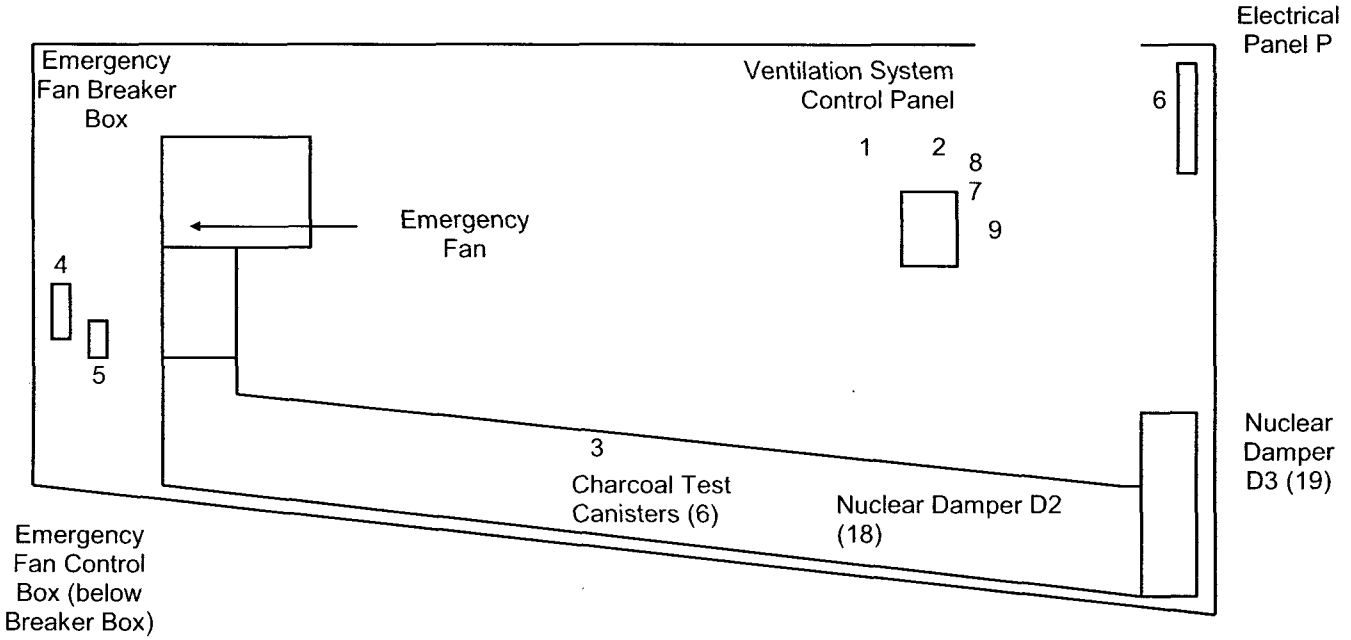
1. Green (G) Normal operation
2. Yellow (Y) Alert alarm (horn will sound)
   a) Acknowledge the alarm.
   b) Inform the Dose Projection Team Leader.
3. Red (R) High alarm (horn will sound)
   a) Acknowledge the alarm.
   b) Inform the Dose Projection Team Leader.
   c) Verify that the nuclear dampers D2 (18) and D3 (19) in HVAC room (C136) have shifted to the Emergency Position.

Remarks: _____

_____

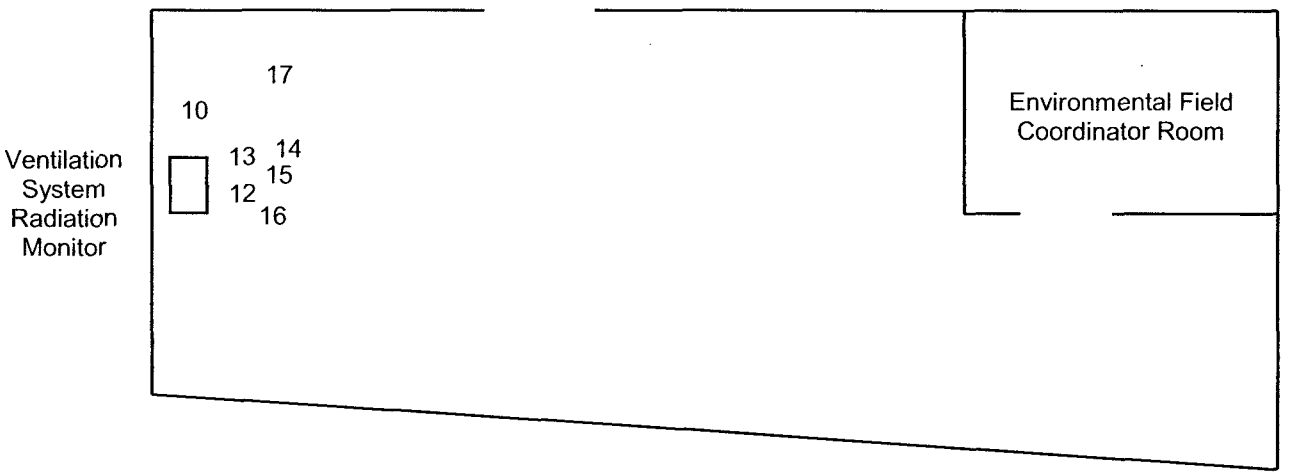
_____

HVAC Room (C-136)



NOTE: Drawing is not to scale

Radiological Control Room (C-014)



Attachment 10 - COMMUNICATIONS MANAGER CHECKLIST

Sheet 1 of 3

Position Function: Direct and supervise the offsite notification and communication emergency response activities.

✓

Responsibility/Activity

1. Assume the position of Communications Manager. ❒

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Perform a formal relief when permanently relieving another Communications Manager.

      1) Review the activity log.

      2) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   d) Inform a staff member when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Notify the State and County EOCs and Corporate Communications (or the JIC if activated) when the EOF becomes activated. ❒

3. Ensure that communications equipment is in place and functioning properly. ❒

NOTE: Do not create a new notification form until responsibility for notifications is assumed by the ERM.

   a) Verify the CM, EC-State/County (Selective Signaling System), EC-Corp Comm/JIC, and the State/County Decision Line telephones are operational.

   b) Verify the automatic ring-down telephones (EC to TSC and EC to JIC) are operational.

   c) Verify the News Coordinator, dose projection, CM (ERFIS), and EOF AAT computers are operational

Responsibility/Activity ✓

d) Verify that the back up telephone system is functioning for each position when loss of the HEEC Telephone System occurs. See the Emergency Phone List EPL-001 Section 2.6.

4. Supervise the activities of the Emergency Communicators and the HNP EOC Representatives. ❒

a) Ensure the EC-State/County has verification codes.

b) Ensure that questions received by the ECs are recorded and delivered to the appropriate person for response.

c) Ensure that responses to inquires are provided to the ECs for transmittal.

NOTE: If the Emergency Communicator in the EOF is not present transfer emergency notification forms to the State and County agencies in accordance with PEP-310, Notifications and Communications.

5. Ensure the timely notification and transfer of emergency information to the State and County agencies is performed. If needed, contact the MCR-EC for additional information regarding Emergency Notification Forms. ❒

NOTE: ERO members involved in media communications or briefings should not disseminate sensitive text (i.e., Safeguards Information, names or agencies involved, etc.) regarding security status and /or security event conditions. Screened and/or desensitized information can be gathered through Federal, State and Local Law Enforcement agencies (i.e., FBI, SBI and Homeland Security via Wake County Sheriff's Department) if required.

a) Reference PEP-310 for instructions using OSI/PI, ERFIS or the manual Emergency Notification Form.

b) Ensure that an Emergency Notification Form is completed.

c) Ensure the Emergency Notification Forms are approved by the ERM and transmitted per PEP-310 within 15 minutes of:

1) The declaration of an emergency.

2) A change in emergency classification level.

3) A change in offsite Protective Action Recommendations.

d) Ensure the follow-up Emergency Notification Forms are approved by the ERM and transmitted per PEP-310 as follows:

1) Within 60 minutes of the last notification.

Responsibility/Activity ✓

2) Provide radioactive release information to the state and counties as soon as a significant change in dose projection and/or field monitoring data is available.

e) Ensure State and County officials are informed of any on site events requiring assistance from offsite support organizations.

6. Ensure the timely transfer of emergency information to Corporate Communications or the JIC is performed. ❒

a) Ensure that copies of notifications provided to the State and County are transmitted to the JIC and the TSC.

b) Coordinate with the News Coordinator to ensure that draft news releases are issued no later than 45 minutes after an emergency classification change, radiological release, or other significant event which is provided via the Emergency Notification Form.

7. Ensure the notifications and requests for assistance to external support services and organizations is performed. ❒

a) Notify ANI and INPO within 4 hours of the declaration of an Alert or higher classification level.

b) Ensure that Nuclear Mutual Limited is notified of any fire damage to HNP equipment.

c) Ensure TSC Directors are kept informed of HNP requests for offsite assistance.

8. Request any materials or supplies not available on site from the ALM or Admin Team. ❒

a) Coordinate with the ALM to establish Status Board Plotters to post current plant status and offsite information upon sustained loss of EOF electronic display capabilities using the PPIF forms in PEP-310.

9. Termination of the emergency ❒

a) Ensure that a termination message is written, approved, and transmitted to the State and counties.
b) Provide all logs and records to Emergency Preparedness upon termination of the emergency.
c) Replenish content of your position book and restore the facility to stand-by readiness
d) Inventory facility equipment if applicable.

Attachment 11 - EMERGENCY COMMUNICATOR - STATE/COUNTY CHECKLIST

Sheet 1 of 2

Position Function: Conduct timely notification and transfer of emergency information to the State and Counties.

Responsibility/Activity ✓

1. Assume the position of Emergency Communicator-State/County. ☐

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Perform a formal relief when permanently relieving another Emergency Communicator-State/County.

      1) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   d) Inform the CM when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Communicate the Emergency Notification Forms to the State and counties. ☐

   a) Ensure the Emergency Notification Forms have been approved by the ERM.

   b) Obtain verification code words.

   c) Transmit the notification.

      1) Ensure the initial Emergency Notification Forms are transmitted within 15 minutes of any change in classification or PAR.

      2) Ensure the follow-up Emergency Notification Forms are transmitted no greater than 60 minutes from the last notification.

3. Prepare Event Notification Checklists as per PEP-310. ☐

4. Request any materials or supplies not available on site from the ALM or Admin Team. ☐

Responsibility/Activity	✓
5. Termination of the emergency	❒

a) Ensure that a termination message is transmitted and communicated to the State and counties.

b) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

c) Replenish content of your position book.

d) Restore the facility to stand-by readiness.

e) Inventory facility equipment if applicable.

Attachment 12 - EMERGENCY COMMUNICATOR - CORP COMM/JIC CHECKLIST

Sheet 1 of 2

Position Function: Provide information to support public information emergency response activities.

Responsibility/Activity ✓

1. Assume the position of Emergency Communicator-Corporate Communications/JIC. ❒

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Perform a formal relief when permanently relieving another Emergency Communicator-Corporate Communications/JIC.

      1) Review the activity log.

      2) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   d) Inform a staff member when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Maintain a log of activities. (Attachment 25) ❒

3. Provide information to the News Coordinator to support the preparation of news releases. ❒

4. Provide technical clarification for the Site Communications Manager to support preparation activities for news media briefings prior to JIC activation. ❒

5. Request any materials or supplies not available on site from the ALM or Admin Team. ❒

6. Following JIC activation: ❒

   a) Inform Site Communications Manager of time of activation.

   b) Provide information to support preparations for news media briefings.

Responsibility/Activity ✓

7. Monitor rumor control activities from the JIC. ❒

NOTE: Rumor report is located at *http://progressnet/CSDApps/NRC/Search.aspx*

a) Open the Rumor Report web page from a desktop computer.

b) Select criteria (Emergency Type, plant, from and to date).

c) Click Submit - The data entered by each Customer Service Associate will be displayed.

d) Provide information on rumors, inaccuracies and recurring questions to the Technical Specialist.

8. Termination of the emergency ❒

a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

b) Replenish content of your position book.

c) Restore the facility to stand-by readiness.

d) Inventory facility equipment if applicable.

Attachment 13 - NEWS COORDINATOR CHECKLIST

Sheet 1 of 4

Position Function: Prepare and coordinate the approval of news releases.

Responsibility/Activity ✓

1. Assume the position of News Coordinator. ❒

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Perform a formal relief when permanently relieving another News Coordinator.

      1) Review the activity log.

      2) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   d) Inform a staff member when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Maintain a log of activities. (Attachment 25) ❒

3. Verify the operability of the computer and printer (report any problems to the ALM). ❒

4. Contact Corporate Communications: ❒

   a) Establish contacts and mechanisms for distributing news releases on the Progress Energy Internet, prior to JIC activation.

5. Contact Site Communications: ❒

   a) Establish contacts for the distribution of press releases prior to JIC activation.

6. Inform Site Communications Manager or Corporate Communications if contacted by the Control Room for events involving a fire or transportation of a contaminated, injured person. ❒

Responsibility/Activity ✓

7. Prepare news releases. ☐

   a) Obtain emergency information from the EOF for use in news releases and media briefings.

NOTE:	The EC-Corporate Communications/JIC is the primary source of information for the preparation of news releases.

   b) Use the EAL Reference Manual as a non-technical source of information for emergency descriptions.

   c) Verify emergency information is shared with State and county EOC's via the Emergency Notification Forms (ENF) prior to issuing a news release.

8. Ensure news releases are issued no later than **45 minutes** after an event classification change, radiological release, or other significant event that has been provided to the State and Counties via the Emergency Notification Form. (Attachment 13 Sheet 4 may be used to aid in tracking News Release status.) ☐

NOTE: ERO members involved in media communications or briefings should not disseminate sensitive text (i.e., Safeguards Information, names or agencies involved, etc.) regarding security status and /or security event conditions. Screened and/or desensitized information can be gathered through Federal, State and Local Law Enforcement agencies (i.e., FBI, SBI and Homeland Security via Wake County Sheriff's Department) if required.

   a) Coordinate with Corporate Communications or the JIC Director (when the JIC is activated) to ensure the correct issue times and chronological numbers are recorded on the news release (the JIC Director will record the time prior to issue).

   b) Place 'DRAFT' in the block for issue time for the news release.

   c) Ensure Corporate Communications receives final, approved news releases.

   d) Ensure the Emergency Response Manager has approved all news releases prior to distribution.

   e) Ensure news releases issued with information that needs to be corrected are corrected and reissued with corrections noted.

Responsibility/Activity ✓

NOTE:	News releases do not have to be approved by the ERM if they contain only the JIC activation time, media/public inquiry telephone numbers, or media briefing times.
NOTE:	These non-technical news releases are prepared by the JIC Director once the JIC is activated.

9. Coordinate the release of news information. ☐

   a) Coordinate release through the JIC Director (or through Corporate Communications if the JIC is not yet activated).

   b) Coordinate distribution to EOF, TSC, and NRC Site Team personnel through the Administrative Team Leader.

10. Direct media response activities. ☐

    a) Gather, assess and ensure distribution of emergency information.

       1) Ensure proper approval and issuance of the news releases.

       2) Obtain technical assistance to assess plant data as necessary.

       3) Coordinate with offsite agency public affairs personnel to ensure State and County agencies are aware of emergency information issued by Progress Energy.

    b) Ensure a smooth transition of media response activities from the EOF to the JIC when JIC activation occurs.

11. Inform JIC Director of Corporate Communications and Site Communications contacts. ☐

12. Request any materials or supplies not available on site from the ALM or Admin Team. ☐

13. Termination of the emergency ☐

    a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

    b) Replenish content of your position book.

    c) Restore the facility to stand-by readiness.

    d) Inventory facility equipment if applicable.

Attachment 13 - NEWS COORDINATOR CHECKLIST
Sheet 4 of 4

NEWS RELEASE TRACKING FORM

News Release (NR) Number	Time Due	Approved (check or time)	NR to JIC (Time)	JIC Released (check or time)	NR Distributed to EOF(check or time)

Attachment 14 - REP - STATE/COUNTY EOC CHECKLIST
Sheet 1 of 2

Position Function: Act as technical liaison to provide classification and protective action information to Emergency Management authorities.

Responsibility/Activity ✓

1. Assume the position of Rep - State/County EOC at the appropriate EOC. ❒

   a) Notify Emergency Management Authorities of your presence in the EOC.

      1) Determine their level of awareness of the event.

> **NOTE:** Do not speculate on plant conditions or actions. Contact the EOF to obtain information prior to answering any questions.

      2) Determine if there are any outstanding questions that could be answered by the plant ERO staff.

   b) Contact the EOF (EP Advisor) to indicate arrival at the EOC.

      1) Provide the EOF with a contact phone number at the EOC.

      2) Attempt to gain answers through the EOF for any initial questions from the EOC staff.

   c) Locate the stored plant visual aids package and be prepared to provide information about the plant as necessary.

   d) When relieving another individual, review the activity log, obtain a briefing on the emergency and any actions that have been completed or are in progress, and inform those present of the position being filled.

2. Maintain a log of activities. (Attachment 25) ❒

3. Monitor the progress of the emergency from the EOC. ❒

   a) Remain available to the EOC staff to answer questions about plant design, layout, normal operations, etc.

   b) Act as a liaison between the EOC and EOF to resolve questions and confusion on the part of the EOC staff.

4. Review incoming notification forms to ensure the EOC staff understands plant conditions and is receiving accurate and timely information. ❒

Responsibility/Activity ✓

5. Termination of the emergency ☐

   a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

   b) Replenish content of your position book.

   c) Restore the facility to stand-by readiness.

   d) Inventory facility equipment if applicable.

Attachment 15 - TECHNICAL ANALYSIS MANAGER CHECKLIST

Sheet 1 of 2

Position Function: Direct and supervise the long term (> 12 hours) accident assessment and technical support emergency response actions.

Responsibility/Activity ✓

1. Assume the position of Technical Analysis Manager. ☐

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Perform a formal relief when permanently relieving another Technical Analysis Manager.

      1) Review the activity log.

      2) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   d) Inform a staff member when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Maintain a log of activities. (Attachment 25) ☐

3. Supervise the activities of the EOF Accident Assessment Team. ☐

   a) Ensure the EOF AAT is adequately staffed.

   b) Determine the need for additional company or outside personnel to provide technical support.

   c) Ensure EOF-AAT efforts are focused on long term support activities.

4. Monitor and assess vital plant parameters and conditions. ☐

   a) Coordinate the receipt and assessment of technical information from on site and off site sources related to plant systems and operations.

   b) Ensure the ERM is informed of the status of short and long term repair activities.

Attachment 15 - TECHNICAL ANALYSIS MANAGER CHECKLIST

Sheet 2 of 2

Responsibility/Activity	✓
5. Provide a technical interface with external support and regulatory agencies.	☐
6. Ensure adequate personnel and material resources are available to support the long term (>12 hours) technical response.	☐
7. Coordinate technical support and engineering efforts with the TAD.	☐
a) Contact the TAD to discuss on site activities and to determine if assistance is needed.	
b) Provide engineering support to the TAD and TSC-AAT on short term repair activities as needed.	
8. Request any materials or supplies not available on site from the ALM or Admin Team.	☐
a) Coordinate with the ALM to obtain assistance from the Nuclear Steam Supply System vendor, architect/engineer, or other contractors not currently on your staff, if assistance is needed.	
b) Ensure the ALM has arranged for relief staffing for the EOF-AAT.	
9. Termination of the emergency	☐
a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.	
b) Replenish content of your position book.	
c) Restore the facility to stand-by readiness.	
d) Inventory facility equipment if applicable.	

Attachment 16 - EOF SENIOR REACTOR OPERATOR CHECKLIST

Sheet 1 of 3

Position Function: Provide analysis and advice regarding the impact of plant conditions on emergency classifications, Protective Action Recommendations, and accident mitigation.

Responsibility/Activity ✓

1. Assume the position of EOF Senior Reactor Operator. ☐

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Perform a formal relief when permanently relieving another EOF Senior Reactor Operator.

      1) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   d) Inform a staff member when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Maintain a log of activities by providing input to the EOF log keeper. ☐

3. Monitor fission product barrier and plant status on ERFIS. ☐

   a) Provide recommendations for EAL changes.

   b) Provide recommendations for PAR changes.

   c) Update the fission product barrier status board.

4. Assist in clarifying ERFIS or Plant Parameter Information Forms data. ☐

   a) Coordinate with the EOF ERFIS operator to display vital plant information pertinent to the event.

Responsibility/Activity	✓
5. Request any materials or supplies not available on site from the ALM or Admin Team.	☐
6. Termination of the emergency	☐
a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.	
b) Replenish content of your position book.	
c) Restore the facility to stand-by readiness.	
d) Inventory facility equipment if applicable.	

Directions for Use of the Operations Mitigation Line

Establish a Conference Call

- Place receiver and wireless headset on self
- Push green toggle switch to 'ON'
- Remove handset from cradle
- Hit 'FLASH' button
- Dial Plant Operations Director phone number
- Hit 'FLASH' button
- Dial TSC Senior Reactor Operator's phone number
- Hit 'FLASH' button
- Verify conference call has been established

Disconnect a Conference Call

- Push green toggle switch to 'OFF' position
- Hang up receiver unit on cradle
- Hang up handset on cradle

Attachment 17 - EOF ACCIDENT ASSESSMENT TEAM CHECKLIST

Sheet 1 of 2

Position Function: Provide engineering analysis and trouble shooting, as directed, to assist in accident mitigation.

Responsibility/Activity ✓

1. Assume the position of EOF Accident Assessment Team Engineer. ☐
   a) Sign in on the facility organization chart.
   b) Obtain the positional notebook/binder from the storage area.
   c) Perform a formal relief when permanently relieving another EOF AAT Member.
      1) Review the activity log.
      2) Obtain a briefing on the emergency and any actions that have been completed or are in progress.
   d) Inform a staff member when temporarily leaving the work area (such as to the restroom).
      1) Designate an individual to answer the phones while away.
      2) Upon return, obtain a briefing on any events which have occurred while away.
2. Maintain an accident assessment log by providing input to the TAM. ☐
3. Obtain necessary drawings. ☐
4. Resolve long term engineering problems. ☐
5. Assist as requested in the resolution of short term engineering problems in support of onsite repair efforts. ☐
6. Maintain a listing of out-of service equipment. ☐
7. Request any materials or supplies not available on site from the ALM or Admin Team. ☐

Responsibility/Activity ✓

8. Termination of the emergency ❒

   a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

   b) Replenish content of your position book.

   c) Restore the facility to stand-by readiness.

   d) Inventory facility equipment if applicable.

Attachment 18 - EOF ERFIS OPERATOR CHECKLIST

Sheet 1 of 1

Position Function: Operate ERFIS to obtain and display plant information.

Responsibility/Activity ✓

1. Assume the position of EOF ERFIS Operator. ❒

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Perform a formal relief when permanently relieving another EOF ERFIS Operator.

      1) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   d) Inform the EOF SRO when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Log on to the ERFIS terminal. ❒

NOTE: Update the facility on plant parameter information per PEP-310 when ERFIS data is out of service or unavailable.

3. Coordinate with the EOF SRO to operate the facility display system. ❒

4. Print ERFIS reports as needed. ❒

5. Termination of the emergency ❒

   a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

   b) Replenish content of your position book.

   c) Restore the facility to stand-by readiness.

   d) Inventory facility equipment if applicable.

Attachment 19 - ADMINISTRATIVE AND LOGISTICS MANAGER CHECKLIST

Position Function: Direct and supervise the administrative and logistic support emergency response actions.

Responsibility/Activity ✓

1. Assume the position of Administrative and Logistics Manager. ☐

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Perform a formal relief when permanently relieving another Administrative and Logistics Manager.

      1) Review the activity log.

      2) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   d) Inform a staff member when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Maintain a log of activities. (Attachment 25) ☐

3. Synchronize EOF clocks with the MCR using ERFIS time. ☐

   a) Ensure that SEC-NGGC-2141 Unscheduled Work Call Outs form is completed if applicable.

4. Supervise the activities for access authorization into the EOF. ☐

   a) Inform the EOF security guard of EOF activation when announced by the ERM.

   b) Notify the EOF security guard that the ALM or ERM will be the point of contact at the EOF if verification of personnel is needed to allow access.

5. Supervise the activities of the Administrative Team and Assembly Area Leader. ☐

   a) Coordinate necessary relief and stand-by personnel from the Assembly Area.

Responsibility/Activity ✓

b) Direct the Assembly Area Leader to return assembled personnel to work following instructions from the SEC-TSC or a PA announcement.

NOTE: Permission is required from the SEC-TSC or ERM prior to staffing ERO positions with non-ERO personnel.

NOTE: The Security Director will identify and contact security force personnel. Schedules and logistics for these personnel should be coordinated with the Security Director.

6. Direct the development of relief schedules for all HNP emergency response facilities to provide 24 hour coverage. ❒

   a) Contact the SEC-TSC to coordinate relief times for the on site ERO staff.

   b) Coordinate movement of relief personnel with State officials if offsite protective actions are underway.

   c) Contact the relief personnel to inform them of shift schedules.

   d) Obtain direction and approval by the ERM or SEC-TSC when qualified alternates can not be contacted to fill an ERO position.

7. Make arrangements for personnel, equipment, supplies and other resources in support of the emergency. ❒

   a) In the event of loss of ERFIS, establish manual logging of ERFIS data as found in PEP-310 section 4.8.

   b) Coordinate the acquisition of offsite resources with emergency facility managers.

   c) Coordinate the purchasing efforts to locate, order, and receive resources used in support of the response activities.

   d) Coordinate the processing of offsite support personnel (LLEA) called in to provide assistance with Security.

   e) Determine the need and make arrangements for additional contracts, services and facilities necessary to support the emergency organization.

      1) Support the TAM in acquiring assistance from offsite Agreement Organizations as needed.

f) Provide logistical arrangements for support and Federal response personnel brought in to assist with the event.

g) Provide and coordinate any additional facilities and equipment support for the emergency response facilities.

   1) Direct requests for installation, maintenance and operation of communication or computer equipment in the EOF or JIC to the Telecommunications Technical Assistance Center.

h) Provide and coordinate any additional administrative and clerical support for the emergency response facilities.

8. Maintain accountability for EOF personnel. ☐

   a) Ensure EOF managers are accounting for their personnel while a release is in progress.

9. Termination of the emergency ☐

   a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

   b) Replenish content of your position book.

   c) Restore the facility to stand-by readiness.

   d) Inventory facility equipment if applicable.

AGREEMENT ORGANIZATION ASSISTANCE REQUEST FORM

- ☐ INPO
- ☐ Westinghouse
- ☐ Washington Group
- ☐ Framatone
- ☐ Other: _____
- ☐ American Nuclear Insurers
- ☐ Nuclear Mutual Limited
- ☐ Department of Energy

Assistance Requested: _____

_____

_____

_____

Individuals Contacted: _____ Date: _____ Time: _____

Assistance They Have Agreed to Provide: _____

_____

_____

_____

Individuals Who Will Be Reporting To the Site:

Name	Location Reporting To	Expected Arrival Date	Expected Arrival Time

Notification Completed: _____
(Administrative and Logistics Manager)

Attachment 20 - ADMINISTRATIVE TEAM LEADER CHECKLIST

Sheet 1 of 2

Position Function: Perform administrative activities in the EOF.

Responsibility/Activity ✓

1. Assume the position of Administrative Team Leader. ❒

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Perform a formal relief when permanently relieving another Administrative Team Leader.

      1) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   d) Inform a staff member when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Ensure sufficient clerical support exists in the EOF to adequately support EOF personnel. ❒

3. Direct Administrative Team members to perform administrative support functions as necessary. ❒

   a) Update facility controlled documents as appropriate.

   b) Copy ERFIS data and distribute to appropriate personnel within the facility, including the NRC, if needed.

   c) Copy Plant Parameter Information Forms from PEP-310 and distribute to appropriate personnel within the facility, including the NRC, if ERFIS is not available.

   d) Distribute news releases to EOF, TSC and NRC personnel within the EOF.

   e) Post current plant and offsite information upon a sustained loss of EOF electronic display capability.

   f) Verify phone and fax numbers within the Administrative Guidance Document and distribute to the Administrative Team member, as needed.

Attachment 20 - ADMINISTRATIVE TEAM LEADER CHECKLIST

Sheet 2 of 2

Responsibility/Activity	✓
4. Copy and transmit information to other locations as directed.	❒
5. Obtain procedures and reference materials as requested.	❒
6. Termination of the emergency	❒
a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.	
b) Replenish content of your position book.	
c) Restore the facility to stand-by readiness.	
d) Inventory facility equipment if applicable.	

Attachment 21 - EOF LOGKEEPER CHECKLIST

Sheet 1 of 1

Position Function: Maintain a chronological log of all major EOF activities and decisions throughout the emergency.

Responsibility/Activity ✓

1. Assume the position of EOF Logkeeper. ❒

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Perform a formal relief when permanently relieving another EOF Logkeeper.

      1) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   d) Inform a staff member when leaving the work area (e.g., to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on events that occurred while away.

2. Maintain a manual or electronic EOF log by recording EOF activities. ❒

   a) Attachment 25 contains a manual log template and an electronic log template can be found on the Harris EP Web Page.

3. Remind the ERM of pre-designated briefing times. ❒

4. Ensure the JIC is united with the EOF via speakerphone during regularly scheduled EOF briefings. ❒

   a) Advise the JIC in advance of upcoming EOF briefings.

   b) Just prior to commencement of EOF briefings contact the JIC and place the JIC on the speakerphone to monitor EOF briefing reports.

5. Termination of the emergency ❒

   a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

   b) Replenish content of your position book.

   c) Restore the facility to stand-by readiness.

   d) Inventory facility equipment if applicable.

Attachment 22 - ASSEMBLY AREA LEADER CHECKLIST

Sheet 1 of 2

Position Function: Coordinate and supervise the activities in the Assembly Area.

Responsibility/Activity ✓

1. Activation of the facility. ❒

   a) Upon declaration of an emergency with instructions to assemble (usually an Alert of higher), report to the Admin Building CR#228 and coordinate assembly of personnel.

   b) Obtain the positional notebook/binder from CR#228.

   c) Contact the Radiological Control Director (RCD) at extension 3034 or listen to the P.A. announcements to determine if there are restrictions on eating and drinking. Ensure personnel are aware of the restrictions.

   d) Advise the Administrative and Logistics Manager (ALM) at 362-3657 that the Assembly Area is ready to activate.

   e) Announce to personnel in the room that you are the Assembly Area Leader.

2. Instruct arriving personnel to sign in and await instructions. ❒

   a) Ensure that personnel reporting to the assembly area log in on the roster.

   b) If a Site Area Emergency or greater is declared instruct all nonessential personnel (company employees that are not on the ERO and contractors) to leave the site via established evacuation routes. Instruct ERO personnel not assigned to emergency duties to travel to the HE&EC auditorium. Report when all personnel have left the Admin Building to the ALM and proceed to the HEEC.

   c) If a Site Area Emergency is not declared then direct assembled personnel to return to work following instructions from the Site Emergency Coordinator -TSC or a P.A. announcement once verified by the ALM.

Attachment 22 - ASSEMBLY AREA LEADER CHECKLIST

Sheet 2 of 2

Responsibility/Activity ✓

3. Termination of the emergency. ☐

   a) Provide records to Emergency Preparedness upon termination of the emergency.

   b) Replenish contents of the position book.

   c) Restore the facility to stand-by readiness.

   d) Inventory facility equipment if applicable

Attachment 23 - EOF TELECOM/COMPUTER SUPPORT CHECKLIST

Sheet 1 of 1

Position Function: Provide telecom/computer support to EOF Staff

Responsibility/Activity ✓

1. Assume the Position of EOF Telecom/Computer Support. ❒

   a) Sign in on the facility organization chart.

   b) Obtain the positional notebook/binder from the storage area.

   c) Perform a formal relief when permanently relieving another EOF Telecom/Computer Support.

      1) Obtain a briefing on the emergency and any actions that have been completed or are in progress.

   d) Inform a staff member when temporarily leaving the work area (such as to the restroom).

      1) Designate an individual to answer the phones while away.

      2) Upon return, obtain a briefing on any events which have occurred while away.

2. Provide computer support as required to assist EOF Staff. ❒

NOTE: Disabling the ERDS link prior to establishing a connection will cause an "ERROR" status on the ERFIS display.

3. Termination of the emergency ❒

   a) Provide all logs and records to Emergency Preparedness upon termination of the emergency.

   b) Replenish content of your position book.

   c) Restore the facility to stand-by readiness.

   d) Inventory facility equipment if applicable.

Attachment 24 - ERFIS Operator Instructions
Sheet 1 of 2

1. ACTIVATION OF THE LARGE SCREEN DISPLAYS:	
a) Activate the 3 large screen projectors from the black AMX touch screen controller by selecting screen display EOF1, EOF2, and EOF3.	
b) Select one of the three computers that provide the display by:	
• pressing the "Ctrl" key,	
• releasing the "Ctrl" key and then	
• selecting 1, 2, or 3 (Computer 1, 2, or 3)	
2. GENERAL INSTRUCTIONS FOR ERFIS USE:	
a) ERFIS defaults to the "MASTER MENU" screen. Press F3 or type "MENU" to return to the "MASTER MENU" from any screen	
b) Menu items may be selected by typing the TURN-ON-CODE (TOC) at the top of the screen or by selecting the menu item with the mouse and clicking	
c) Menu items that are useful for emergency preparedness are:	
ROUTINE EP DATA GROUPS:	
3TSCDAT1	DATA GR 1 FOR EMERGENCY USE IN TSC
3TSCDAT2	DATA GR 2 FOR EMERGENCY USE IN TSC
3TSCDAT3	DATA GR 3 FOR EMERGENCY USE IN TSC
3EALS	DATA FOR ACCIDENT ASSESSMENT TEAM
3DOSE	DOSE PROJECTION INFORMATION
OTHER AVAILABLE EP DATA GROUPS:	
3TSCRMS1	RAB RADIATION MONITORS
3TSCRMS2	WPB/TSC RADIATION MONITORS
3TSCRMS3	FHB RADIATION MONITORS
3TSCRMS4	CNMT, EFFLUENT, AND MISC RAD MON

OTHER AVAILABLE EP DATA GROUPS:	
GL	Group Libraries
PL	Plot Library
EP	Emergency Preparedness Function Menu
Status	Emergency Preparedness Display Menu
3. INSTRUCTIONS FOR PRINTING THE EP DATA GROUPS EVERY 15 MINUTES	
a) From the Master Menu select "Periodic Logs Menu"	
b) Select "Start Periodic Facility Log" to start the logs. They will print every 15 minutes	
c) Select "Stop Periodic Facility Log" to terminate the printing of the logs.	
4. INSTRUCTIONS FOR THE REMOTE DISPLAYS IN THE NRC OVERFLOW ROOM AND THE RADIOLOGICAL CONTROL ROOM (DOSE PROJECTION ROOM)	
a) Turn on the video screen from the front of the monitor	
b) Select, from the wall panel behind the monitor, the desired display (EOF1, EOF2, or EOF3, video, etc.)	
5. INSTRUCTIONS FOR SECURING THE FACILITY:	
a) Stop Periodic Facility Logs	
b) Sign off ERFIS by terminating the event and logging out	
c) Turn off the overhead projectors by selecting the SHUTDOWN function from the black AMX touch screen controller.	
d) Turn off the video screen from the front of the monitor	

Attachment 25 – EOF LOGSHEET
Sheet 1 of 1

EOF LOG

POSITION: _____

EOF	DATE:	PAGE OF
TIME	**COMMENTS**	

Upon relief, or termination of the emergency, ensure that the log is completed by checking the log for completeness, then printing and signing your name in the comments section.

Revision Summary for PEP-270, Rev.17

This revision addresses adverse condition corrective action 201074, PRR 208477 and PRR 204910. The changes include the elimination of the requirement to maintain a facility log using ERFIS and post-drill improvements identified by Emergency Response Organization members.

Section	
Attachment 1	Revised ERM concurrence of Emergency Action Level (EAL) changes to "maintain awareness". EAL classification is a non-delegable function of the TSC-SEC.
	Notated that the EOF HP Technician initially responds to the OSC
Attachment 6	Revised step 4 to add a specific responsibility for updating the Dose Projection/PAR Status Board in the EOF Command Room
Attachment 13	Added a "News Release Tracking Form" that the EOF News Coordinator can use to track the status of news releases.
Attachment 20	Added reference PEP-310 to Step 3.C. PEP-310 contains the Plant Parameter Information Forms that are referred to in the step.
Attachment 21	Revised step 2 to allow the use of a manual or electronic form for the facility log.
Attachment 24	Deleted the form. ERFIS will no longer be used to log facility activities. An electronic or manual form will be used per Attachment 21. (Corrective Action for AR 201074)
Attachment 25 and 26	Renumbered due to the deletion of Attachment 24.

Progress Energy

I
INFORMATION
USE

HARRIS NUCLEAR PLANT

PLANT OPERATING MANUAL

VOLUME 2

PART 5

PROCEDURE TYPE: PLANT EMERGENCY PROCEDURE

NUMBER: **PEP-310**

TITLE: **NOTIFICATIONS AND COMMUNICATIONS**

Table of Contents

Section Page

1.0 PURPOSE 3
2.0 INITIATING CONDITIONS 3
3.0 GENERAL 3
3.1 Regulations and Other Commitments 3
3.2 ERO Activation (Call-Out) During Normal Working Hours 4
3.3 ERO Activation (Call-Out) During Off-Normal Hours 6
3.4 Off-Normal Hours Manual ERO Call Out 9
4.0 PROCEDURE STEPS 9
4.1 Requesting Off-Site Support 9
4.2 Notifications Checklists 10
4.3 Activation of the Emergency Response Organization (ERO) 10
4.4 State and County Emergency Notifications 10
4.5 Nuclear Regulatory Commission Notifications 11
4.6 Notification of the INPO and ANI 13
4.7 Notification of Nuclear Electric Insurance Limited 14
4.8 Transmittal of Plant Parameter Information to the TSC and EOF (ERFIS Failure) 14
5.0 REFERENCES 15
5.1 Referenced Plant Emergency Procedures 15
5.2 Other References 15
6.0 DIAGRAMS/ATTACHMENTS 15
Attachment 1, Request for Off-Site Support 16
Attachment 2, Unusual Event Notifications Checklist 19
Attachment 3, Alert Notifications Checklist 20
Attachment 4, Site Area Emergency Notifications Checklist 22
Attachment 5, General Emergency Notifications Checklist 24
Attachment 6, Emergency Response Organization Activation - Dialogic System 26
Attachment 7, Emergency Response Organization Activation - Pager System 29
Attachment 8, Manual Emergency Response Organization Activation 30
Attachment 9, Nuclear Power Plant Emergency Notification Form 33
Attachment 10, State/County Notification Checklist - OSI/PI Method 34
Attachment 11, Instructions for State/County Notification Manual Method 36
Attachment 12, State/County Notification Form OSI/PI Instructions 38
Attachment 13, INPO/ANI Notification Form 44
Attachment 14, Plant Parameter Information Form 45
Attachment 15, HNP Plant Response to Large Area Fire 48
Attachment 16, Accelerated Call to NRC for Security Events 50

1.0 PURPOSE

The purpose of this procedure is to provide instructions and documentation for:

1. Requesting assistance from offsite support organizations (Immediate Response Organizations).

2. Notifying HNP Emergency Response Organization (ERO) personnel by automated and manual means.

3. Notification of offsite Emergency Response Organizations and authorities.

4. Notifications to the Nuclear Electric Insurance Limited (NEIL), Institute of Nuclear Power Operations (INPO) and American Nuclear Insurers (ANI).

2.0 INITIATING CONDITIONS

1. An emergency has been declared.

2. An event has occurred which requires a response from an offsite support organization (such as fire, medical or local law enforcement).

3.0 GENERAL

3.1 Regulations and Other Commitments

1. Alerting of on site personnel via Public Address announcement is required within 15 minutes of event declaration.

2. Federal Regulations state "A licensee shall have the capability to notify responsible State and local governmental agencies within 15 minutes after declaring an emergency." This is satisfied when contact is made with the first agency (State or County).

3. Notification of event declaration to the NRC is required "as soon as possible" and no later than 60 minutes after an event declaration.

4. Activation of the NRC ERDS data link is required within 60 minutes of an Alert or higher event declaration.

5. Notification to Institute of Nuclear Power Operations (INPO) and American Nuclear Insurers (ANI) must occur within four (4) hours after declaration of an Alert, Site Area Emergency, or General Emergency.

6. Nuclear Electric Insurance Limited (NEIL) notification is only applicable to events involving equipment damage.

3.2 ERO Activation (Call-Out) During Normal Working Hours

NOTE: Normal working hours are 0700 to 1700, Monday through Friday (other than Progress Energy Holidays).

NOTE: Control Room actions are the same for normal and off-normal hours.

NOTE: The Dialogic Computer programming directs calls to where personnel are expected to be (that is, to work numbers during normal hours and a priority placed on calling home numbers during off-hours).

NOTE: During "normal working" hours ERO members are to report directly to the Emergency Response Facilities without taking time to "call in."

NOTE: For a declared event involving a security threat, consideration should be given for the following:

- Delaying the activation of the ERO until Security gives permission or until the "All Clear" PA announcement is made, if plant personnel would be put at risk.
- Using the alternate assembly area (HEEC/EOF area) for the ERO and responding onsite personnel. (Security Event scenario/pager code, per PEP-310 Attachment 6 and 7)
- Developing specific PA announcements to be consistent with Security "Take Cover" announcements and actions.

1. The Main Control Room (MCR), normally the Emergency Communicator – Control Room, makes a Public Address system announcement directing all ERO personnel to report to their Emergency Response Facilities.

2. ERO personnel are to respond to the PA announcement by directly reporting to their assigned emergency response facility.

3. The Emergency Communicator – Control Room activates the Dialogic system using PEP-310 Attachment 6.

   a. The Dialogic system initiates the group call pages of ERO members.

      (1) The pagers will display a numeric message indicating the telephone number of Dialogic followed by a two number code (-X-Y) where the "X" corresponds to the event classification level and the "Y" signifies facility activation requirements. Following the initial digital pager code, an alpha-numeric message will be sent indicating the event classification and facility activation requirements (Pager carrying personnel are issued pocket cards to remind them of these codes).

      (2) ERO personnel are to respond to this pager code by directly reporting to their assigned emergency response facility. No call back is required during normal working hours.

3.2 ERO Activation (Call-Out) During Normal Working Hours (continued)

b. The Dialogic system also initiates telephone calls to work and home phone numbers of ERO personnel.

(1) ERO personnel are to respond to the telephone call and report to their Emergency Response Facility (ERF).

(2) Once alerted to the fact that the ERFs are being activated, all ERO personnel are to report as required.

4. If an incorrect scenario has been entered into the Dialogic computer, or the System is making nuisance, invalid or disruptive calls, it can be deactivated by the MCR using section 5 of PEP-310 Attachment 6.

5. If the Dialogic System fails during normal hours:

a. The Emergency Communicator – Control Room initiates a group page directly through the paging company using PEP-310 Attachment 7.

(1) The pagers will display a numeric message indicating "9999" followed by a two number code (-X-Y) where the "X" corresponds to the event classification level and the "Y" signifies facility activation requirements (Pager carrying personnel are issued pocket cards to remind them of these codes).

(2) ERO personnel are to respond to 9999-X-Y code by directly reporting to their assigned emergency response facility, as required

b. Once the Emergency Response Facilities (ERF) are activated, manual call-out of unfilled ERO positions will be performed by the Admin and Logistics Manager (ALM) in the EOF at the direction of each emergency facility manager.

3.3 ERO Activation (Call-Out) During Off-Normal Hours

NOTE: Off-normal hours are 1700 to 0700, Monday through Friday, weekends and Progress Energy holidays.

NOTE: Control Room actions are the same for off-normal and normal working hours.

NOTE: The Dialogic Computer programming directs calls to where personnel are expected to be (that is, priority is placed on calling home numbers during off-hours).

NOTE: For a declared event involving a security threat, consideration should be given for the following:

- Delaying the activation of the ERO until Security gives permission or until the "All Clear" PA announcement is made, if plant personnel would be put at risk.
- Using the alternate assembly area (HEEC/EOF area) for the ERO and responding onsite personnel. (Security Event scenario/pager code, per PEP-310 Attachment 6 and 7)
- Developing specific PA announcements to be consistent with Security "Take Cover" announcements and actions.

1. The Main Control Room (MCR), normally the Emergency Communicator – Control Room, makes a Public Address system announcement directing all ERO personnel to report to their Emergency Response Facilities.

2. On-site ERO personnel are to respond to the PA announcement by directly reporting to their assigned emergency response facility.

3. The Emergency Communicator – Control Room activates the Dialogic system using PEP-310 Attachment 6.

   a. The Dialogic system initiates the group call pagers of ERO members.

      (1) The pagers will display a numeric message indicating the telephone number of Dialogic followed by a two number code (-X-Y) where the "X" corresponds to the event classification level and the "Y" signifies facility activation requirements. Following the initial digital pager code, an alpha-numeric message will be sent indicating the event classification and facility actuation requirements (Pager carrying personnel are issued pocket cards to remind them of these codes).

         (a) Personnel with pagers are to call the number listed and answer the questions from the Dialogic computer.

         (b) The first qualified responder for each position, who meets FFD requirements, will be instructed to fill their ERO position. These personnel are to report to their facility, as required.

(c) Subsequent responders calling in to the Dialogic system who are qualified in Key Positions, and who meet FFD requirements, will be notified to report to their facility, as required.

(2) The practice of having all available personnel in key positions respond to the facilities is designed to enhance the initial emergency response actions and timeliness of facility activation.

b. The Dialogic system also initiates telephone calls to home and cell phone numbers to activate the ERO for all required and unfilled positions.

(1) Personnel receiving telephone calls are to answer the questions from the Dialogic system.

(2) Once identified as being FFD the Dialogic system will notify the person of the position that they are filling and to report to their facility, as required.

(3) None of the personnel contacted, other than the JIC Administrative Coordinator, make any calls. They immediately go to their facility.

(4) The JIC Administrative Coordinator initiates calls to Customer Service Center – Carolinas (CSC-C) setup and security personnel.

(5) The Dialogic system calls multiple times in an attempt to fill all positions to the required staffing depth.

4. If an incorrect scenario has been entered into the Dialogic computer; or the System is making nuisance, invalid or disruptive calls, the system can be deactivated using section 5 of PEP-310 Attachment 6.

3.3 ERO Activation (Call-Out) During Off-Normal Hours (continued)

5. If the Dialogic System fails during off-normal hours:

   a. The Emergency Communicator – Control Room initiates a group page directly through the paging company using PEP-310 Attachment 7.

      (1) The pagers will display "9999" followed by a two number code (-X-Y) where the "X" corresponds to the event classification level and the "Y" signifies facility activation required (Pager carrying personnel are issued pocket cards to remind them of these codes).

      (2) ERO personnel are to respond to 9999-X-Y code by directly reporting to the assigned emergency facility, without calling into the Control Room.

      (3) All responders for each position who meet FFD requirements will be instructed to fill their ERO position.

   b. Once the Emergency Response Facilities (ERF) are activated, manual call-out of unfilled positions will be performed by the Admin and Logistics Manager (ALM) in the EOF at the direction of each emergency facility manager.

   c. If both Dialogic and the group page methods have failed, the MCR must initiate a manual call-out of the ERO using PEP-310 Attachment 8, Part B.

      (1) The first person contacted in each position who meets FFD requirements will be instructed to fill their ERO position.

      (2) The on-shift Chemistry, Radiation Protection, and Maintenance personnel are directed to call in additional staff to fill the ERO pool (technician) positions.

3.4 Off-Normal Hours Manual ERO Call Out

NOTE:	During off-normal hours, without Dialogic operating, selected ERO personnel will be notified though a manual call out.

1. On-shift personnel have the following responsibilities:

   a. On-shift Operations personnel initiate a group page directly through the paging company as described in step 5 of section 3.3 above.

      (1) On-shift Maintenance personnel call in personnel as needed to augment on-shift staffing to meet the emergency requirements.

         As a minimum:

         - Three Electrical/I&C Personnel
         - Two Mechanical Personnel

      (2) On-shift Chemistry and Radiation Protection personnel call in personnel as needed to augment on-shift staffing to meet the emergency requirements. As a minimum:

         - Eight OSC RP Pool Personnel
         - Four Environmental Monitoring Team Personnel
         - One Chemistry Technician

2. Once the Emergency Response Facilities (ERF) are activated, manual call-out of unfilled ERO positions will be performed by the Admin and Logistics Manager (ALM) in the EOF at the direction of each emergency facility manager.

4.0 PROCEDURE STEPS

4.1 Requesting Off-Site Support

Instructions and documentation for response requests to offsite support organizations (fire, medical, law enforcement), also referred to as Immediate Response Organization, is performed using PEP-310 Attachment 1.

4.2 Notifications Checklists

Checklists for use by the SEC-TSC/ERM to perform initial notifications following the declaration of an emergency are documented using the following appropriate Attachments to this procedure:

1. PEP-310 Attachment 2, Unusual Event
2. PEP-310 Attachment 3, Alert
3. PEP-310 Attachment 4, Site Area Emergency
4. PEP-310 Attachment 5, General Emergency

4.3 Activation of the Emergency Response Organization (ERO)

1. The Control Room staff initiates a Public Address System announcement directing on-site members of the ERO to activate the Emergency Response Facilities in accordance with PEP-230.
2. The Control Room staff initiates activation of the remainder of the ERO using PEP-310 Attachment 6. In the event of a Dialogic computer malfunction, PEP-310 Attachment 7 or PEP-310 Attachment 8, Part A or Part B, are used to initiate back-up methods of ERO activation.
3. Emergency Preparedness is to be contacted if any malfunction of the Dialogic System occurs.

4.4 State and County Emergency Notifications

CAUTION

Initial notification must occur within 15 minutes after the declaration of an emergency, a change in the classification level or a change in a Protective Action Recommendation.

CAUTION

Follow-up notification must occur within 60 minutes of the last notification while in a declared emergency.

1. Prepare the Notification Message

   a. Prepare the transmitted portion of the Emergency Notification Form (ENF), referring to the guidelines in PEP-310 Attachment 12 as necessary, by:

      (1) Using OSI/PI (Attachment 12) to prepare an automated version, or, if unavailable,

4.4 State and County Emergency Notifications (continued)

(2) Hand writing a paper copy of PEP-310 Attachment 9, or

(3) Preparing an electronic equivalent of PEP-310 Attachment 9.

b. The SEC-CR (or ERM if the EOF is activated) must review the message content, edit as necessary, and approve it for release.

c. The Emergency Notification Form (ENF) should be read aloud by a peer as a peer check.

2. Transmit the Notification Message

NOTE:	Once the County Emergency Operations Centers (EOC's) are activated, they will request that notification be transmitted directly to the EOCs rather than the Warning Points (WPs). The State EOC and Warning Point are staffed 24 hours a day to receive notification.
NOTE:	OSI/PI prepared ENFs (EFORMs) are simultaneously faxed to each of the WPs and the State EOC then each of the county EOCs.

a. If the required locations have been sent a copy of the Emergency Notification Form via OSI/PI (step 1.a(1) above), communicate the content of the form using PEP-310 Attachment 10.

b. If using the PEP-310 Attachment 9 Emergency Notification Form (1.a(2) or 1.a(3) above), communicate the content using PEP-310 Attachment 11, Manual Method.

4.5 Nuclear Regulatory Commission Notifications

CAUTION

Initial notification must occur as soon as possible (but not to exceed one hour) following the declaration of an emergency or a change in the classification level, unless continuous communications are established.

CAUTION

Activation of the NRC ERDS data link is required within 60 minutes of an Alert or higher event declaration.

4.5 Nuclear Regulatory Commission Notifications (continued)

CAUTION

Follow-up notification must occur within 60 minutes of the last message, unless continuous communications are established.

CAUTION

A qualified Emergency Communicator-NRC or SRO must be available to continuously communicate with the NRC via the Emergency Telecommunications System (ETS) or commercial telephone line within one hour of the initial event declaration.

NOTE: Initial NRC event notification from the MCR may be performed using the State/County Emergency Notification Form in order to expedite the notification.

NOTE: Communications on the ETS are automatically recorded by the NRC.

NOTE: Initial communications will likely be interrupted by patch-ins and/or requests to repeat information.

1. Prepare the information for the NRC Notification (AP-617 Attachment 7, or State/County Emergency Notification Form (ENF) of section 4.4 for initial MCR notifications).

2. Contact the NRC Headquarters Operations Officer at the NRC Incident Response Center by performing the following:

3. Pick up the receiver on the ETS telephone and call the NRC via one of the numbers listed on the phone.

4. If the ETS phone is not operable, use a normal telephone line to contact the NRC Incident Response Center. The numbers are listed on the ETS phone and in the Emergency Phone List (EPL-001).

5. When the Headquarters Operations Officer responds, say: "THIS IS THE HARRIS NUCLEAR PLANT." and provide the emergency notification information.

6. Respond to any requests for additional information that you can answer, otherwise, state that the information is not yet available and will be provided in a follow up message.

7. Record the name of the individuals contacted and time of contact.

4.5 Nuclear Regulatory Commission Notifications (continued)

NOTE: ERDS can be activated from any ERFIS terminal in the MCR, TSC or EOF.
NOTE: ERDS = NORMAL should be displayed at the bottom center of the ERFIS screens within 5 minutes of system activation in the following step.

8. Verify Emergency Response Data System (ERDS) is activated within 60 minutes of an Alert or higher classification.

9. If ERDS is to be activated from the TSC:

   a. Enter turn-on-code ERDS and depress "RETURN" button.

   b. After the ERDS menu appears, click/activate the "START ERDS" button.

   c. Within 5 minutes, ERDS activation should be complete as indicated by:

      - The ERFIS printer provides as "ERDS TASK HAS SUCCESSFULLY LINKED WITH THE NRC" printed message.

      - ERDS = NORMAL displayed at the bottom center of ERFIS screens.

   d. If ERDS does not display this message or activate then attempt to reestablish a connection or request another facility activate.

   e. If ERDS connection is terminated then wait 15 minutes and attempt to reestablish a connection or request another facility to wait 15 minutes and reestablish a connection.

4.6 Notification of INPO and ANI

CAUTION
Notification must occur within four (4) hours after declaration of an Alert, Site Area Emergency, or General Emergency.

1. Complete the Institute of Nuclear Power Operations (INPO) and American Nuclear Insurers (ANI) Notification Form (PEP-310 Attachment 13).

2. Using EPL-001, contact the INPO and ANI Duty Officers.

3. If contact is made with an answering machine or service:

   a. Give the plant name, your name and telephone number for the Duty Officer to return the call.

   b. When completing the form, enter "machine" instead of an individual's name.

4.6 Notification of INPO and ANI (continued)

4. Read the notification form directly to each Duty Officer and then record the name of each person notified.

5. After notification is complete, record the date/time and sign the form.

4.7 Notification of Nuclear Electric Insurance Limited

NOTE: This notification is only applicable to events involving equipment damage.

1. The notification should be performed during normal working hours.

2. Notify the Corporate Insurance Administrator (see EPL-001) of the event and provide any details required for them to make the notification.

4.8 Transmittal of Plant Parameter Information to the TSC and EOF (ERFIS Failure)

1. Once the EOF is activated, have the Admin and Logistics Manager (EOF) call in the following additional personnel while continuing with this procedure:

   a. One Licensed operator to report to the Main Control Room to assist with data transmittal.

   b. Additional administrative support to report to the TSC and EOF for posting data.

2. A licensed operator in the MCR shall:

   a. Prepare a copy of the example Plant Parameter Information Form (PEP-310 Attachment 14) at 15 minute intervals, or as appropriate.

   b. Fax the Plant Parameter Information Form (PPIF) sheets, electronically or verbally transmit the data, to the TSC and EOF (see EPL-001).

3. TSC and EOF administrative personnel should post information as follows:

   a. Copy the PPIF forms and distribute to appropriate personnel within the facilities, including the NRC, as directed.

   b. Present the information by transcribing on status boards or project onto screens (PCs, overhead, etc.) as directed.

4. TSC-ERFIS Operator and EOF-ERFIS Operator will:

   a. Provide updated plant information from the Main Control Room to the TSC and EOF.

   b. Clarify data as needed.

   c. Coordinate data needs of the OSC and JIC.

5.0 REFERENCES

5.1 Referenced Plant Emergency Procedures

1. PEP-110
2. PEP-230
3. PEP-270
4. PEP-340
5. PEP-350

5.2 Other References

1. AP-003
2. AP-617
3. SP-015
4. EPL-001, "Emergency Phone List"
5. NRC IN 98-08, "Information Likely To Be Requested If An Emergency Is Declared"
6. OMM-001
7. FPP-012-09-LAF, Large Area Fire Pre-Plan

R5.2.8 8. NRC Bulletin 2005-02, "Emergency Preparedness and Response Actions for Security-Based Events"

6.0 DIAGRAMS/ATTACHMENTS

See Table of Contents.

1. Support Determination

A. FIRE

☐ Apex Fire Department (Inside or outside the Protected Area) 911

When requesting Fire Department assistance, also request Medical assistance (Apex rescue squad) to support the fire fighting efforts.

☐ Holly Springs Fire Department (Inside Protected Area) 911

☐ If informed by Site Incident Commander or designee of a Large Area Fire then refer to Attachment 15, HNP Plant Response to Large Area Fire for agency callouts.

B. MEDICAL

NOTE: UNC Air Care and Duke Life Flight will not transport a chemically or radiologically contaminated patient.

NOTE: UNC Air Care or Duke Life Flight may be contacted directly for helicopter transport of an injured individual (Bypass 911 Dispatch).

☐ Apex Rescue Squad (Ambulance) 911

☐ UNC Air Care (Helicopter) 1-800-247-6264

☐ Duke Life Flight (Helicopter) 1-800-362-5433

C. OTHER

☐ Wake County Sheriff Department 911

☐ Other (specify): _____

2. Contacting the Support Organization

NOTE: If the telephone cannot be used or 911 does not answer, direct Security to relay the message by radio.

NOTE: When contacting 911, use an outside extension (362-7992 or 362-7997 from the MCR) this will provide the dispatch center with information specifying HNP as the originating location.

NOTE: 911 calls are routed to the Wake County center. If Apex Rescue or Fire Department is requested, the call will be transferred to the Apex dispatcher. When the transfer occurs, repeat the message.

(Continued on next page)

2. Contacting the Support Organization (cont.)

NOTE: Do not allow the following request to delay emergency response (If not immediately available, a call back with the information is acceptable).

A. Contact the selected organization (from above) and say:

"This is the Harris Nuclear Plant, please dispatch the (*as checked above*)"

B. Provide and document a brief description of the reason for the request:

_____

_____

C. Request information: # Vehicles: _____ # Personnel: _____ ETA: _____

D. Record the time and date of the call: _____ / _____

E. If a call back verification is received, record:

Name of caller: _____ Time of call back: _____

3. Notify Security:

Notify Security of the following information, if available:

- ☐ Type of response (fire, sheriff, ambulance).
- ☐ Where to meet the responder (Security Building gate, helicopter landing zone).
- ☐ Number of vehicles and personnel responding.
- ☐ Estimated time of arrival.

4. Notify HP and EP:

A. Notify the Duty HP Supervisor (or Radiation Control Director [RCD, 3034] in the TSC if Emergency Response Facilities are activated) of the following information, if available:

- ☐ Type of response (fire, sheriff, ambulance).
- ☐ Where the responder will be going.
- ☐ Estimated time of arrival.

B. Notify a member of the EP staff (or EP Advisor [8-771-3636] in the EOF if Emergency Response Facilities are activated) to provide a courtesy notification of the event to offsite Emergency Management.

EP Member Contacted: _____ _____ (Time)

(Continued on next page)

5. Additional Notifications:

A. If applicable, alert the receiving hospital to initiate their plan for handling contaminated patients (the destination can be obtained from the responding organization through the First Aid Team).

_____(Time)

NOTE: In the case of an EMS call out and transportation of the individual for off-site treatment the following notifications are required to be made within 30 minutes of the event in accordance with OMM-001, Operations Conduct of Operations, Attachment 12.

B. In the case of an EMS call out and transportation of the individual for off-site treatment make the following notifications within 30 minutes of the event.

- ☐ Manager - Shift Operations
- ☐ Operations Manager
- ☐ Duty Manager
- ☐ Plant General Manager

_____ (Time)

C. Also notify, as required by AP-003, General Plant Safety and Housekeeping, Attachment 3, the following:

- ☐ Industrial Health and Safety Representative
- ☐ Site Communications

D. Consult with the SSO to determine if notifications, other than the above, are performed; refer to AP-617 to determine whether an event notification under "Off-site Notification has or will be made" is required.

Notifications Completed: _____ _____

(Signature) (Date/time)

Attachment 2 - UNUSUAL EVENT NOTIFICATIONS CHECKLIST

Sheet 1 of 1

Notification of Site Personnel - Standby Status **Completed ☐**

CAUTION

During a security event, it may be advisable NOT to sound an alarm or make a PA announcement. The following script may not be appropriate for security threat events.

1. Make the following announcement over the public address system:
   A. **"Attention all personnel; attention all personnel: An Unusual Event has been declared due to (*brief description of initiating event*). All members of the ERO standby for further instructions. All other personnel continue with your present duties."**
   B. If there is a localized emergency (for example, high radiation, fire), announce its type and location and instruct personnel to stand clear of this area.
2. Repeat the PA Message(s).

Notification of the ERO - Standby Status **Completed ☐**

1. Notify or direct notification of the ERO per Section 4.3 using Unusual Event codes or as otherwise directed using Attachments 6-8 as appropriate.

Notification of State and Local Agencies **Completed ☐**

1. Notify or direct notification of the State and local authorities within 15 minutes of the event classification by communicating an initial Emergency Notification Form (Attachment 9) per Section 4.4 using Attachment 10 or 11 as appropriate.

Notification of the NRC **Completed ☐**

1. As soon as possible but within 60 minutes of the event classification, inform the NRC using the ETS or a commercial telephone per Section 4.5.

Notification Completed: _____ _____
(Signature) (Date/time)

Accelerated Notification of NRC – Security Event **Completed ☐ NA ☐**

CAUTION

During a security event, it may be advisable NOT to sound an alarm or make a PA announcement.

NOTE: If notified of a Security Event by the NRC this step is not required.

R5.2.8 1. If any security-based event(s) has occurred that is considered to be an imminent or actual threat by the station security staff or the Main Control Room and has not been previously communicated to the NRC, then immediately complete Attachment 16 – Accelerated Call to NRC for Security Events and direct the Emergency Communicator - NRC or other Technical Support Center personnel to contact the NRC (goal of within 15 minutes).

Notification of Site Personnel - Dismissal of Personnel **Completed ☐**

The following script may not be appropriate for security threat events. Refer to NOTES in Section 3.2 and 3.3 for guidance.

1. Have the Control Room sound the Site Evacuation Alarm for 15 seconds, then the TSC will make the following announcement over the public address system:
   A. **"Attention all personnel; attention all personnel: An Alert has been declared due to (*brief description of initiating event*). All members of the ERO report to your designated emergency response facility. All other HNP personnel exit the Protected Area and report to the Admin Building 2nd floor conference room area, and await instructions. All visitors, all nonessential contractor personnel, all declared pregnant females and all handicapped personnel please leave the site at this time."**
   B. If there is a localized emergency (for example, high radiation, fire), announce its type and location and instruct personnel to stand clear of this area.
   C. If there is a potential for an airborne radiological release, consider announcing that there will be no eating, drinking, or smoking until further notice.
2. Repeat the PA Message(s).

Notification of ERO **Completed ☐**

1. Notify or direct notification of the ERO per Section 4.3 using Attachments 6-8 as appropriate.

Notification of State and Local Agencies **Completed ☐**

1. Notify or direct notification of the State and local authorities within 15 minutes of the event classification by communicating an initial Emergency Notification Form (Attachment 9) per Section 4.4 using Attachment 10 or 11 as appropriate.

Attachment 3 - ALERT NOTIFICATIONS CHECKLIST

Sheet 2 of 2

Notification of the NRC	**Completed ☐**
1. As soon as possible but within 60 minutes of the event classification, inform the NRC using the ETS or a commercial telephone per Section 4.5. 2. Activation of the NRC ERDS data link is required within 60 minutes of an Alert or higher event declaration.	

Action Verification	**Completed ☐**
1. Have security verify public access areas have been evacuated.	

Notification Completed: _____ _____

(Signature) (Date/time)

Accelerated Notification of NRC – Security Event **Completed ☐ NA ☐**

NOTE: If notified of a Security Event by the NRC this step is not required.

R5.2.8 1. If any security-based event(s) has occurred that is considered to be an imminent or actual threat by the station security staff or the Main Control Room and has not been previously communicated to the NRC, then immediately complete Attachment 16 – Accelerated Call to NRC for Security Events and direct the Emergency Communicator - NRC or other Technical Support Center personnel to contact the NRC (goal of within 15 minutes).

CAUTION

During a security event, it may be advisable NOT to sound an alarm or make a PA announcement. Accountability may be delayed during a security event if the SEC (in consultation with Security) determines that performing accountability could be detrimental to the safety of plant personnel. If accountability is delayed, then accountability should be performed immediately when conditions warrant. Refer to NOTES in Section 3.2 and 3.3 for guidance.

NOTE: Consider radiological conditions when preparing to evacuate personnel. If high dose rates will be encountered it may be better to shelter non-essential personnel onsite.

Notification of Site Personnel - Protected Area Evacuation **Completed ☐**

1. Have the Control Room sound the Site Evacuation Alarm for 15 seconds, then the TSC will make the following announcement over the public address system:
   A. If entering from no event or an Unusual Event: **"Attention all personnel; attention all personnel: A Site Area Emergency has been declared due to (*brief description of event*). All ERO members report to your designated emergency response facility. All other personnel exit the Protected Area and leave the site. Security, initiate Accountability."**
   B. If upgrading from an Alert: **"Attention all personnel, Attention all personnel: A Site Area Emergency has been declared due to (*brief description of event*). All personnel who are not part of the ERO exit the Protected Area and leave the site. Security, initiate Accountability."**
   C. If there is a localized emergency (for example, high radiation, fire), announce its type and location and instruct personnel to stand clear of this area.
   D. If there is a potential for an airborne radiological release, consider announcing that there will be no eating, drinking, or smoking until further notice.
2. Repeat the alarm and PA Message(s).

(Continued on next page)

Attachment 4 - SITE AREA EMERGENCY NOTIFICATIONS CHECKLIST

Sheet 2 of 2

Notification of ERO **Completed ☐**

1. Notify or direct notification of the ERO per Section 4.3 using Attachments 6-8 as appropriate.

Notification of State and Local Agencies **Completed ☐**

1. Notify or direct notification of the State and local authorities within 15 minutes of the event classification by communicating an initial Emergency Notification Form (Attachment 9) per Section 4.4 using Attachment 10 or 11 as appropriate.

Notification of the NRC **Completed ☐**

1. As soon as possible but within 60 minutes of the event classification, inform the NRC using the ETS or a commercial telephone per Section 4.5.
2. Activation of the NRC ERDS data link is required within 60 minutes of an Alert or higher event declaration.

Verify Accountability (May be delayed for Security Events) **Completed ☐**

1. Security should report within 30 minutes of declaration of a Site Area Emergency that accountability is complete and provide the names of missing persons, if any. Log the time that Accountability was completed. If not previously performed, direct Security to verify public access areas has been evacuated.

Notification Completed: _____ _____
(Signature) (Date/time)

Accelerated Notification of NRC – Security Event **Completed ☐ NA ☐**

NOTE: If notified of a Security Event by the NRC this step is not required.

R5.2.8 1. If any security-based event(s) has occurred that is considered to be an imminent or actual threat by the station security staff or the Main Control Room and has not been previously communicated to the NRC, then immediately complete Attachment 16 – Accelerated Call to NRC for Security Events and direct the Emergency Communicator - NRC or other Technical Support Center personnel to contact the NRC (goal of within 15 minutes).

CAUTION

During a security event, it may be advisable NOT to sound an alarm or make a PA announcement. Accountability may be delayed during a security event if the SEC (in consultation with Security) determines that performing accountability could be detrimental to the safety of plant personnel. If accountability is delayed, then accountability should be performed immediately when conditions warrant.

Consider radiological conditions when preparing to evacuate personnel. If high dose rates will be encountered it may be better to shelter non-essential personnel onsite.

Notification of Site Personnel - Protected Area Evacuation **Completed ☐**

1. Have the Control Room sound the Site Evacuation Alarm for 15 seconds, then the TSC will make the following announcement over the public address system:
   A. If entering into a GE from an Alert or lower:
   "Attention all personnel; attention all personnel: A General Emergency has been declared due to (*brief description of event*). All members of the ERO report to your designated emergency response facility. All other personnel exit the Protected Area and leave the site. Security, initiate Accountability."
   B. If upgrading from an Site Area Emergency: **"Attention all personnel, Attention all personnel: A General Emergency has been declared due to (*brief description of event*)."**
2. If there is a localized emergency (for example, high radiation, fire), announce its type and location and instruct personnel to stand clear of this area.
3. If there is a potential for an airborne radiological release, consider announcing that there will be no eating, drinking, or smoking until further notice.
4. Repeat the alarm and PA Message(s).

Notification of ERO **Completed ☐**

1. Notify or direct notification of the ERO per Section 4.3 using Attachments 6-8 as appropriate.

(Continued on next page)

Notification of State and Local Agencies **Completed ☐**

NOTE: Protective Action Recommendations issued in accordance with PEP-110 are mandatory for a General Emergency Classification.

1. Notify or direct notification of the State and local authorities within 15 minutes of the event classification by communicating an initial Emergency Notification Form (Attachment 9) per Section 4.4 using Attachment 10 or 11 as appropriate.

Notification of the NRC **Completed ☐**

1. As soon as possible but within 60 minutes of the event classification, inform the NRC using the ETS or a commercial telephone per Section 4.5.
2. Activation of the NRC ERDS data link is required within 60 minutes of an Alert or higher event declaration.

Verify Accountability (May be delayed for Security Events) **Completed ☐**

1. If not previously done, Security should report within 30 minutes of declaration of the a General Emergency that accountability is complete and provide the names of missing persons, if any. Log the time that Accountability was completed.
2. Verify Security has performed the actions for Exclusion Area Evacuation per SP-015.

Notifications Completed: _____ _____
(Signature) (Date/time)

NOTE: If the System is not operable, proceed directly to PEP-310, Attachment 7 and Attachment 8. Unusual Event Key ERO personnel include SEC-TSC, ERM-EOF, EP Advisor-EOF, Company Spokesperson-JIC and NRC Resident Inspector.

1.a. Non-Security Event Scenario Determination:

Select the appropriate scenario number from the options below:

- ☐ UNUSUAL EVENT - Notification of key ERO personnel 20
- ☐ UNUSUAL EVENT - Pre-staffing Facilities 21
- ☐ ALERT 22
- ☐ SITE AREA EMERGENCY 23
- ☐ GENERAL EMERGENCY 24

1.b. Security Event Scenario Determination:

Select the appropriate scenario number from the options below:

- ☐ UNUSUAL EVENT - Notification of key ERO personnel 50
- ☐ UNUSUAL EVENT - Pre-staffing Facilities 51
- ☐ ALERT 52
- ☐ SITE AREA EMERGENCY 53
- ☐ GENERAL EMERGENCY 54

2. Connecting to the System:

NOTE: The number in step "B" below must be entered as soon as the system starts saying "Hello". If you wait too long the system will respond, "Hello, there is no activity at this time, goodbye" and hang up.

If this happens, hang up and start again at step "A".

Operator Action:	***Proper System Response:***
A. **Dial 2452** on a plant extension or dial 362-2452 if using a commercial phone line.	*"Hello this is the Shearon Harris ERO"*
B. **Immediately enter 4357** followed by the "#" sign.	*"This is the remote activation module"*

(Continued on next page)

2. Connecting to the System (continued):	
C. **Enter the scenario ID** (checked above) followed by the "#" sign.	*".....to start the scenario press 3"*
D. **Start the scenario by pressing the number 3**	*"The scenario is building"*
E. **Press the # key to end the call**	*"Good Bye"*
F. **Hang up** and prepare for system activation verification in the section below.	The System will dial telephones within one minute in the MCR (362-7992 or 362-7997).

3. System Activation Verification:	
Operator Action:	**Proper System Response:**
A. When one of the commercial phone lines rings, **answer the telephone** and follow the prompt	*Please enter your social security number.*
B. **Enter 123-45-6789**	*You entered xxx-xx-xxxx is that correct? Please press 9 for yes, 6 for no."*
C. **If correct, enter 9**, otherwise: Enter 6 and follow the instructions to correct the SSN.	*Scenario message (emergency classification) and ask if you a fit for duty.*
D. **Enter 9**	*You will be filling the position of Main Control Room. Please enter your ETA in minutes.*
E. **Enter 00** (any number will work)	*Thank you, goodbye*
F. If the computer functioned as expected; **notify the SEC-CR** that Dialogic is calling in the ERO. If the computer fails to communicate as listed, perform ERO activation using the pagers per PEP-310, Attachment 7.	

4. Completion:
Inform SEC-CR of the results of the system activation. Notification Completed: _____ _____ (Signature) (Date/time)

(Continued on next page)

NOTE: The section below is performed **only if** the Dialogic system is malfunctioning.

5. Dialogic System Deactivation:

If an incorrect scenario has been entered or the System is making nuisance, invalid, or disruptive calls, the Dialogic System can be deactivated using the following steps.

Operator Action:	***Proper System Response:***
NOTE: Following the next step you must rapidly enter the first number of the password as the System is saying "Hello". If you wait too long the system will respond, "Hello, there is no activity at this time, goodbye" and hang up.	
A. **Dial 2452** on a plant extension (or dial 362-2452 if using a commercial phone line)	*"Hello this is the Shearon Harris ERO"*
B. Immediately **enter 4357** followed by the "#" key.	*"This is the remote activation module"*
C. **Press the # sign** for more options	*"to stop a scenario press 2"*
D. **Enter the number 2**	*"The selected scenario will be stopped"*
E. **Press the # sign**	*"Good Bye"*
F. Hang up the phone (The system has been deactivated)	

Attachment 7 - EMERGENCY RESPONSE ORGANIZATION ACTIVATION - PAGER SYSTEM

Sheet 1 of 1

NOTE: If the System malfunctions or fails to operate proceed directly to PEP-310, Attachment 8.

1.a. Non-Security Events Pager Code (Numeric Message) Determination:

Select the appropriate classification level from the options below:	Pager Codes
☐ Unusual Event (pre-staffing of the facilities)	**9999*1*1 ##**
☐ Alert	**9999*2*1 ##**
☐ Site Area Emergency	**9999*3*1 ##**
☐ General Emergency	**9999*4*1 ##**

Classification Level | *Code for "Response Required"* | *Completes call*

1.b. Security Events Pager Code (Numeric Message) Determination:

Select the appropriate classification level from the options below:	Pager Codes
☐ Unusual Event (pre-staffing of the facilities)	**9999*1*2 ##**
☐ Alert	**9999*2*2 ##**
☐ Site Area Emergency	**9999*3*2 ##**
☐ General Emergency	**9999*4*2 ##**

Classification Level | *Code for "Response Required"* | *Completes call*

2. Activating the Group Page:

Operator Action:	***Proper System Response:***
A. From an outside line, dial 1-800-538-5388.	*"Please enter the pager ID (number)."*
B. Enter 123008	*"Please enter your password after the tone."*
C. Enter 8193.	*"Please enter your numeric message after the tone."*
D. After the three (3) beeps, enter the pager code determined in "1" above.	
E. Hang up.	
F. Record the time: _____	

3. Notification Call-Backs:

Call backs are not required, but if calls are received, notify individuals to report directly to their emergency facilities.

4. Completion:

Notification Completed: _____ _____

(Signature) (Date/time)

Part A - Unusual Event Notification of Selected Personnel with a Dialogic Failure

NOTE:	EPL-001, Emergency Phone List, contains home, work, and pager numbers for personnel filling ERO Positions.
NOTE:	The SEC may elect to notify personnel in addition to those listed below.
NOTE:	If a Security Event occurs during normal working hours, the SEC-SSO may elect to have ERO members report to their normal facilities.

1. Contact the on-duty ERO member (refer to the Intranet EP Web site or EPL-001) in the following positions, and notify them of the event. If the on-duty person can not be contacted, contact any of the other ERO members in that position who are Fit For Duty (FFD).

   If the callout is due to a Security Event and if instructed by the SEC-SSO, tell ERO members to report to the alternate assembly areas in the HEEC/EOF.

ERO Position/Facility	Person Contacted	Time
Site Emergency Coordinator-TSC	_____	_____
Emergency Response Manager / EOF	_____	_____
Emergency Preparedness Advisor / EOF	_____	_____
Company Spokesperson / JIC	_____	_____
2. Contact and inform the NRC Resident Inspector of the event.	_____	_____

3. Inform the SEC-CR of the results of the notification. _____ (Initials)

4. Sign for completion of ERO Notification of an Unusual Event

   Notification Completed: _____ (Signature) _____ (Date/time)

Part B - Manual Call-Out for Events Requiring Facility Activation

CAUTION
Emergency notification messages shall be given only to the specified individuals and not to their spouse, children, baby-sitter, and so forth.

CAUTION
If you encounter an answering machine, leave a message to call the plant with a phone number, but leave no emergency information.

1. Contact the on-duty ERO member listed in the table on the next page.

   Refer to Intranet EP Web site and the Emergency Phone List (EPL-001), Attachment 1, to obtain contact numbers for personnel in each of the ERO positions or the duty roster on the EP website.

   a. If the on-duty person can not be contacted, contact any of the other ERO members in that position.

   b. Ask each individual if they are "Fit for Duty" (FFD).

      (1) If FFD, advise them of the event declaration and that this is a manual call out of the ERO.

      (2) If the individual is not fit for duty, tell them a response is not required at this time, but to stay near their phone.

      (3) If the callout is due to a Security Event and if instructed by the SEC-SSO, tell ERO members to report to the alternate assembly areas in the HEEC/EOF.

2. **If off-normal hours**, contact on-shift personnel and provide them the following instructions:

   a. Maintenance; call in, as a minimum:
      - 3 additional Electrical/I&C techs
      - 2 additional Mechanics _____

   b. Chemistry and Radiation Protection Personnel; call in, as a minimum:
      - 8 additional OSC RC Pool personnel
      - 4 additional EnMon Team personnel
      - 1 additional Chemistry Technician _____

3. Contact and inform the NRC Resident Inspector of the event. _____

4. Inform the SEC-CR of the results of the manual call-out _____

5. Manual Call Out of ERO Completed: _____ _____
   (Signature) (Date/time)

Part B - Manual Call-Out for Events Requiring Facility Activation (continued)

	PERSON CONTACTED	ETA (MIN)	TIME
45- Minute Responders (call first)			
TSC AAT - Core Performance			
Communications Director			
Dose Projection Team Leader			
MCR ERO Position			
Plant Operations Director (in MCR)			
OSC ERO Positions			
Emergency Repair Director			
Damage Control Coordinator			
Radiological Control Coordinator			
Chemistry Coordinator			
TSC ERO Positions			
Site Emergency Coordinator-TSC			
Technical Analysis Director			
TSC AAT - Electrical			
TSC AAT - Mechanical			
Radiological Control Director			
Security Director			
EOF ERO Positions			
Emergency Response Manager			
Emergency Preparedness Advisor			
Communications Manager			
Emergency Communicator-State/County			
Radiological Control Manager			
Technical Analysis Manager			
News Coordinator			
Administrative & Logistics Manager			
JIC ERO Positions			
Company Spokesperson			
JIC Director			
Technical Specialist			

Attachment 9 - NUCLEAR POWER PLANT EMERGENCY NOTIFICATION FORM Sheet 1 of 1

1. A DRILL B ACTUAL EVENT MESSAGE # _____

2. A INITIAL B FOLLOW-UP NOTIFICATION: TIME_____ DATE____/____/____ AUTHENTICATION # _____

3. SITE: _____ Confirmation Phone # (____)_____

4. **EMERGENCY CLASSIFICATION:** A UNUSUAL EVENT B ALERT C SITE AREA EMERGENCY D GENERAL EMERGENCY

BASED ON EAL #_____ EAL DESCRIPTION: _____

5. **PROTECTIVE ACTION RECOMMENDATIONS:** A NONE

B EVACUATE _____

C SHELTER _____

D CONSIDER THE USE OF KI (POTASSIUM IODIDE) IN ACCORDANCE WITH STATE PLANS AND POLICY.

E OTHER_____

6. **EMERGENCY RELEASE:** A None B Is Occurring C Has Occurred

7. RELEASE SIGNIFICANCE: A Not applicable B Within normal operating limits C Above normal operating limits D Under evaluation

8. EVENT PROGNOSIS: A Improving B Stable C Degrading

9. METEOROLOGICAL DATA: *Wind Direction* from* _____ *degrees* *Wind Speed** _____*mph*

(*Not Required for Initial Notifications) Precipitation* _____ Stability Class* A B C D E F G

10. A DECLARATION B TERMINATION Time _____ Date ____/____/____

11. AFFECTED UNIT(S): 1 2 3 All

12. UNIT STATUS:
(Unaffected Unit(s) Status Not Required for Initial Notifications)

A U1 ____% Power Shutdown at Time _____ Date ___/____/___

B U2 ____% Power Shutdown at Time _____ Date ___/____/___

C U3 ____% Power Shutdown at Time _____ Date ___/____/___

13. REMARKS: _____

FOLLOW-UP INFORMATION (Lines 14 through 16 Not Required for Initial Notifications)

EMERGENCY RELEASE DATA. NOT REQUIRED IF LINE 6 A IS SELECTED.

14. RELEASE CHARACTERIZATION: TYPE: A Elevated B Mixed C Ground UNITS: A Ci B Ci/sec C µCi/sec

MAGNITUDE: Noble Gases:_____ Iodines:_____ Particulates:_____ Other: _____

FORM: A Airborne Start Time _____ Date ___/____/___Stop Time _____ Date ___/____/___

B Liquid Start Time _____ Date ___/____/___Stop Time _____ Date ___/____/___

15. PROJECTION PARAMETERS: Projection period: _____Hours Estimated Release Duration _____Hours

Projection performed: Time _____ Date ___/____/___

16. PROJECTED DOSE:

DISTANCE	TEDE (mrem)	Adult Thyroid CDE (mrem)
Site boundary	_____	_____
2 Miles	_____	_____
5 Miles	_____	_____
10 Miles	_____	_____

17. APPROVED BY: _____ Title _____ Time _____ Date___/____/___

NOTIFIED BY:_____ RECEIVED BY: _____ Time _____ Date ___/____/___

NOTE: If the Selective Signaling phone is inoperable, use the normal telephone system or the UHF State frequency radio in the TSC or EOF (State and Wake County WP do not have radios). Attachment 4 of the EPL-001 or the placard near the EC phone has the State EOC and WP numbers. Additionally, State EOC and WP numbers are on the speed dial buttons for the EC phone. Use the conferencing function on multi-line phones by calling each number and pushing the "conference" button on the phone to dial another number. Push the "conference button again to connect all parties.

1. Contacting the Offsite Authorities:

A. Obtain the **verification code words** from the following storage locations:
   1. Emergency Communicator's position notebook in the Main Control Room (MCR), or
   2. Key locker at the Auxiliary Control Panel (ACP), or
   3. EOF supply cabinet.

NOTE: If you do not hear a tone, a conference network may already be established.

B. Using the Selective Signaling System, **dial '10'** and listen for a tone.

C. At the tone, perform one of the following:
   - ☐ Dial **22** to contact the **Warning Points and State EOC** (normally used by the MCR).
   - ☐ Dial **33** to contact the State and County **EOCs** (commonly used by the EOF).
   - ☐ Dial **44** to contact **all Warning Points and EOCs** (during EOC activation, as requested).

D. Wait for the initial response and say: ***"This is the Harris Nuclear Plant, stand by."***

E. Record the current time and date (24 hour clock) on line 2 of the ENF. (15-minute requirement)

F. After the responses cease, say: ***"This is Harris Nuclear Plant, answer to roll call,"***

NOTE: The State WP and EOC will be contacted for the initial call using 10-22.

   - ☐ ***"State WP"*** and/or ☐ ***"State EOC"*** (Pause for response).
   - ☐ ***"Chatham County"*** (Pause for response).
   - ☐ ***"Harnett County"*** (Pause for response).
   - ☐ ***"Lee County"*** (Pause for response).
   - ☐ ***"Wake County"*** (Pause for response).

G. If one or more organizations did not respond to roll call:
   1. Say ***"Standby while I re-dial the missing location(s)"***
   2. Re-enter the appropriate 2 digit code from step "C" above.
   3. Repeat the roll call for the missing locations.

H. If a location(s) still does not respond, request an assistant to contact the missing organization(s) by phone (see EPL-001) and read the message to them.

I. Continue with the locations that are on the line.

(Continued on next page)

2. For Initial Notifications:

A. Say "***This is the Harris Nuclear Plant, Emergency Notification message number _____ was sent via fax. A _____ has been:***
(state the classification level)

- ***declared";*** - or -
- ***remains in effect"***

B. Report the PARs as listed.

3. Communicate contents of notification form:

A. ***"Please confirm that a legible copy of the notification form has been received."***

B. If any one responds that they are having difficulty reading the faxed notification form, read it over the line.

C. Print and enter your name on line 17 of the form for "Notified By", if not previously entered.

D. Say ***"State; please supply an authentication number"***

E. Respond with the corresponding word from the list of verification code words.

F. Record the authentication information on the form (line 2).

G. Say ***"are there any questions?"***

H. If necessary, correct any errors or clarify misunderstood information.

4. Completion:

A. Say ***"respond to roll call with your name."***, call roll and record the information below. Identify the applicable location for each agency (WP is not used for notification/communication after EOC is activated).

Agency:	WP:	EOC:	Name of Person Contacted:
State			
Chatham County			
Harnett County			
Lee County			
Wake County			

B. When completed, say ***"This is the end of the emergency notification. You may leave the network. This is the Harris Nuclear Plant, out."***

C. If performed from the MCR, fax the Emergency Notification Form to the TSC and the EOF.

D. If telecommunications problems were encountered, notify the Help Desk (refer to EPL-001).

E. State/County Notification Completed: _____ _____
(Signature) (Date/time)

NOTE: If the Selective Signaling phone is inoperable, use the normal telephone system or the UHF State frequency radio in the TSC or EOF. Attachment 4 of the EPL-001 or the Placard near the EC phone has State EOC and WP numbers. Additionally, State EOC and WP numbers are on the speed dial for the EC phone. Use the conferencing function on multi-line phones by calling each number and pushing the "conference" button on the phone to dial another number. Push the "conference" button again to connect all parties.

1. Contacting the Offsite Authorities:

A. Obtain the **verification code words** from the following storage locations:
Emergency Communicator's position notebook in the Main Control Room (MCR),
Key locker at the Auxiliary Control Panel (ACP), or EOF supply cabinet.

NOTE: If you do not hear a tone, a conference network may already be established.

B. Using the Selective Signaling System, **dial '10'** and listen for a tone.

C. At the tone, perform one of the following:

- ☐ Dial **22** to contact the **Warning Points and State EOC** (normally used by the MCR).
- ☐ Dial **33** to contact the State and County **EOCs** (commonly used by the EOF).
- ☐ Dial **44** to contact **all Warning Points and EOCs** (during EOC activation, as requested).

D. Wait for the initial response and say: ***"This is the Harris Nuclear Plant, stand by."***

E. Record the current time and date (24 hour clock) on line 2 of the ENF. (15-minute requirement)

F. After the responses cease, say: ***"This is Harris Nuclear Plant, answer to roll call,"***

NOTE: The State WP and EOC will be contacted for the initial call using 10-22.

- ☐ ***"State WP"*** and/or ☐ ***"State EOC"*** (Pause for response).
- ☐ ***"Chatham County"*** (Pause for response).
- ☐ ***"Harnett County"*** (Pause for response).
- ☐ ***"Lee County"*** (Pause for response).
- ☐ ***"Wake County"*** (Pause for response).

G. If one or more organizations did not respond to roll call:

1. Say ***"Standby while I re-dial the missing location(s)"***
2. Re-enter the appropriate 2 digit code from step "C" above.
3. Repeat the roll call for the missing locations.

H. If a location(s) still does not respond, request an assistant to contact using EPL-001.

I. Continue with the locations that are on the line.

(Continued on next page)

2. For Initial Notifications:

A. Say "***This is the Harris Nuclear Plant, Please record the following information on an Emergency Notification Form."*** (Pause to allow the locations to retrieve a form).

B. Say "***Line 1,*** (Read each checked item) , ***Emergency Notification message number*** _____

C. Say ***"Line 4, a*** _____ ***has been: (classification)***

- ***declared";*** - or -
- ***remains in effect."***

D. Say ***"Line 5"*** and then report the PARs as listed.

3. Communicate contents of notification form:

A. ***"Please record the following information on an Emergency Notification Form."*** (Pause to allow the locations to retrieve a form).

B. Read the entire form beginning at line 1 to the responding locations as follows:

1. Identify each line by number before communicating the content.
2. Spell difficult words.
3. Complete line 2, then say ***"State; please supply an authentication number"***.
   - Respond with the corresponding word from the list of verification code words.
   - Record the authentication information on (line 2).
4. Complete reading the remainder of the form (from line 3).
5. Print and enter your name on line 17 of the form for "Notified By:"

C. Say ***"are there any questions?"***

D. If necessary, correct any errors or clarify misunderstood information.

E. Say ***"Copies of this notification will be sent to you via Fax."***

4. Completion:

A. Say ***"respond to roll call with your name."*** call roll and record the information below. Identify the applicable location for each agency (WP is not used for notification/communication after EOC is activated).

Agency:	WP:	EOC:	Name of Person Contacted:
State			
Chatham County			
Harnett County			
Lee County			
Wake County			

B. When completed, say ***"This is the end of the emergency notification. You may leave the network. This is the Harris Nuclear Plant, out."***

C. If performed from the MCR, fax the Emergency Notification Form to the WP's, EOC's, TSC and EOF using the R39 button which is labeled "DEL" (i.e., the delete key) on bottom row of buttons, lower right hand side on the top of the fax machine.

D. If performed from the TSC or EOF, fax a copy of the Emergency Notification Form to the applicable WPs and/or EOCs utilizing the applicable rapid dial buttons.

E. If telecommunications problems were encountered, notify the Help Desk (refer to EPL-001)

F. Manual State/County Notification Completed: _____ _____
(Signature) (Date/time)

To access the OSI/PI (EFORM)

1. Open up the PI – Process Book. (NGG OSI Displays)
2. Select HNP Plant Status (double click).
3. Select the "EP" tab.
4. Page down as necessary using "Page Down" button on keyboard to "Harris EFORM: Plant Use" and double click on "Harris EFORM: Plant Use" line to open up OSI/PI form.

EFORM Completion Requirements

Line No 1.

Mark the form as **'A' DRILL** or **'B' ACTUAL EVENT**.

Using the pull-down menu or by using a keyboard entry: Assign a numerical **Message #**.

- The first notification is message number 1.
- Each subsequent message is numbered sequentially.
- The message number does not begin again at 1 for any reason during the course of the declared event.

Line No 2

Mark the form as **'A' INITIAL** or **'B' FOLLOW-UP**.

Mark **INITIAL** for

- The first message for the declared emergency classification level (either upgrade or downgrade).
- A change in Protective Action Recommendations.

Mark **FOLLOW-UP** if this is <u>not</u> the first message for the declared emergency classification level.

Leave **NOTIFICATION: TIME** blank. It will be entered by Emergency Communicator later.

Current **Date** will be automatically entered.

Leave **AUTHENTICATION #** blank. It will be entered by Emergency Communicator later.

Line No 3.

Using pull-down menu or using a keyboard entry: In the "**CONFIRMATION PHONE #**" blank, enter a direct Bell Line phone number that off-site agencies could use for verification that this message is authentic if it differs from default number.

Line No 4.

Mark the form with the applicable **EMERGENCY CLASSIFICATION:** level.

- Mark **'A' UNUSUAL EVENT**.
- Mark **'B' ALERT**.
- Mark **'C' SITE AREA EMERGENCY**.
- Mark **'D' GENERAL EMERGENCY**.

If the event has been upgraded or downgraded prior to completion of the off-site notification form, do not transmit old information. Complete a new notification form or modify the existing form to reflect current conditions.

However, if the event has been terminated prior to completion of the off-site notification form, mark the highest emergency classification level that existed and refer to Line No. 10 below.

For Follow-up messages, indicate the same classification as the previous message.

(Continued on next page)

Line No 4. (Continued)

Using the pull-down menu or by using a keyboard entry, enter EAL Reference Number for '**BASED ON EAL #**'.

A short narrative of the event, using layman's terms will auto-populate the **EAL DESCRIPTION. Modify as necessary.**

If the event is being terminated, describe the bases for the termination.

If the event has been downgraded prior to completion of the previous off-site notification form, then record:

- The start and stop times that the higher classification level existed.
- The EAL for the higher classification level.
- The mitigating conditions that caused the classification level to be downgraded.

If the event has been terminated prior to completion of the previous off-site notification form, then record reason for the event and the reason for the termination.

Line No 5.

Mark **PROTECTIVE ACTION RECOMMENDATIONS:** as appropriate per PEP-110.

- Mark **'A' NONE** unless a General Emergency has been declared.
- Mark **'B' EVACUATE** if a General Emergency has been declared and enter each of the subzones for which this recommendation applies (for example, A, B, C, D and so forth).
- For **'C' SHELTER** if a General Emergency has been declared, enter the remaining subzones which were not entered for evacuate.
- Mark **'D'**, "**CONSIDER THE USE OF KI (POTASSIUM IODINE) IN ACCORDANCE WITH STATE PLANS AND POLICY.**", if a General Emergency has been declared and the PROJECTED DOSE (Line 16) Adult Thyroid CDE has been determined to be ≥ 5000 mrem (5 REM).
- Mark **'E' OTHER** if a General Emergency has been declared and other PARs (e.g., PAR beyond 10 miles) are being recommended.

Line No 6.

Mark **EMERGENCY RELEASE(S):** as appropriate:

> **NOTE:** Emergency Release is defined as ANY unplanned quantifiable discharge to the environment of radioactive effluent attributable to a declared emergency event.

- Mark **'A' NONE** if <u>no</u> Emergency Release is occurring or has occurred.
  If 'A' is checked, data entry for Lines 14-16 will be grayed out.

- Mark **'B' IS OCCURRING** if an Emergency Release is occurring (for example, any SG tube leak, RCS leak outside containment, or fuel handling accident that results in a declared emergency is to be reported as an "Emergency Release.") A detectable Radiation Monitor reading increase is <u>not</u> required for a release to exist.
  If 'B' is checked, data entry for Lines 14-16 will be available.

- Mark **'C' HAS OCCURRED** for Emergency Releases which have occurred but are now terminated.
  If 'C' is checked, data entry for Lines 14-16 will be available.

  If a release has been terminated and a new release from another source occurs or another release from another source occurs at the same time, then mark **'B' IS OCCURRING** and explain on Line 13. "**REMARKS**".

(Continued on next page)

Line No 7.

Mark **RELEASE SIGNIFICANCE:** based on whether the release is within or above Technical Specification limits

- Mark '**B**' **Within normal operating limits**

  Or

- Mark '**C**' **Above normal operating limits**
- Mark '**D**' **Under evaluation** if a release is occurring and the release level has not yet been determined.

Line No 8.

Mark **EVENT PROGNOSIS:** as appropriate. Termination messages do not require Item 8 to be filled in.

- **'A' IMPROVING**
- **'B' STABLE**
- **'C' DEGRADING**

Line No 9.

Enter METEOROLOGICAL DATA as appropriate: (This information may not be available for initial notifications.)

- **Wind Direction from** (MMT1014) is automatically updated from ERFIS/OSIPI.
- **Wind Speed** (MMT1008) is automatically updated from ERFIS/OSIPI.
- **Precipitation** (amount MMT1003) is automatically updated from ERFIS/OSIPI.
  Using pull down menu, select 'RAIN' or 'SNOW' or 'SLEET' if any precipitation has occurred within the last 15 minutes.
- **Stability Class** (MMT1017) is automatically updated from ERFIS/OSIPI.

Line No 10.

Mark the form with **'A' DECLARATION** unless this is a termination message.

Mark the form with **'B' TERMINATION** for a termination message.

Indicate the **Time** that the emergency classification was declared or terminated.
Current **Date** will be automatically entered.

If the event has been terminated prior to completion of the off-site notification form, mark both **'A'** and **'B'** and indicate both the start and stop time of the event.

Line No 11.

AFFECTED UNIT(S): will default to **'1'**.

Line No 12.

Mark **UNIT STATUS:** as follows:

Termination messages do not require Item 8 to be filled in.

- **'A' POWER** will be automatically marked and current reactor power level will automatically be entered if the reactor is at power.

  "N/A" will be automatically entered for the power level if the reactor is shutdown.

- Mark **'A' SHUTDOWN** if the reactor is shutdown and indicate the time and date reactor was shutdown (or tripped), if applicable.

  "N/A" will be automatically entered for the time and date of shutdown if the reactor is at power.

(Continued on next page)

Line No 13.
Add **REMARKS:**
Any of the following items should be included:

- Estimate of any surface radioactive contamination in plant, on site or off site.
- HNP emergency response actions underway (for example, evacuation of site personnel).
- Any requests for assistance (for example, Rescue, Fire or Sheriff).

Line No 14. (Line 14 is only available if Line 6 is anything other than "A")

Item 14 will be skipped if 'NONE' was selected for emergency release.

For initial notifications, the remaining information for Item 14 may not be available. If this is the case, leave it blank.

Mark **RELEASE CHARACTERIZATION:** as follows:

- Mark **TYPE: 'C' Ground** for all Emergency Releases (*Default is "Ground Level"*). Elevated and mixed are not used at the Harris Nuclear Plant.
- Mark **UNITS:** as appropriate (*Default is "Ci"*)
  - Mark **'A' Ci**
  - Mark **'B' Ci/sec**
  - Mark **'C' µCi/sec**
- Mark **MAGNITUDE:** as appropriate: (Default is "Other".)
  - Mark **'A' Noble Gases:** as N/A.
  - Mark **'B' Iodines:** as N/A.
  - Mark **'C' Particulates:** as N/A.
  - Mark **'D' Other:** and record total curies released

  If release magnitude is requested by the offsite authorities in terms of individual isotopes of I-131, Xe-133 and CS-137 equivalent, then refer to PEP-340, Dose Assessment, Attachment 6, Equivalent Activity Calculation Worksheet.
- Mark **FORM:** as appropriate
  - Mark **'A' Airborne** for an airborne release.
    Indicate the **START** and **STOP Time and Date** for the release start and stop.

  If the release is in progress at the time of this notification, enter "N/A" for stop time.

  - Mark **'B' Liquid** for a liquid release.
    Indicate the **START** and **STOP Time and Date** for the release start and stop.

  If the release is in progress at the time of this notification, enter "N/A" for stop time.

Line No 15. (Line 15 is only available if Line 6 is anything other than A)

Item 15 will be skipped if 'NONE' was selected for emergency release.
This information may not be available for initial notifications.
Mark **PROJECTION PARAMETERS:** as appropriate: (*Default is Blank)*

- **Projection Period** will default to N/A. It is not used at HNP.
- Enter **Estimated Release Duration** with the time, in hours, of the release duration used in obtaining the dose projection data.
- Enter **Projection Performed:** with the time and date the dose projection data was obtained.

(Continued on next page)

Line No 16.

Item 16 will be skipped if 'NONE' was selected for emergency release.
This information may not be available for initial notifications.
Enter the **PROJECTED DOSE:** as appropriate. Enter the **TEDE** and **Adult Thyroid CDE** doses in mrem:

- Enter **TEDE Site Boundary** as applicable
- Enter **Adult Thyroid CDE Site Boundary** as applicable
- Enter **TEDE 2 Miles** as applicable
- Enter **Adult Thyroid CDE 2 Miles** as applicable
- Enter **TEDE 5 Miles** as applicable
- Enter **Adult Thyroid CDE 5 Miles** as applicable
- Enter **TEDE 10 Miles** as applicable
- Enter **Adult Thyroid CDE 10 Miles** as applicable

Line No 17.

APPROVED BY: - Obtain approval from the Site Emergency Coordinator (SEC) or Emergency Response Manager (ERM) prior to transmittal of the notification to the state and counties.

- Electronically enter name, title, time and date of approval.
- The SEC or ERM shall sign the form near the printed name.
- Indicate the **Time and Date** that the ENF was approved.

Line No. 18 (not numbered on ENF).

The **"NOTIFIED BY:"** is referring to the name of the person who will be reading the message to the State & County personnel. The SSO usually completes the **"NOTIFIED BY:"** using the drop down menu or keyboard entry, but if the SSO does not the communicator should write their name in the space.

The "**RECEIVED BY:**" and **"Time** and **Date**" on line 18 does not appear on the electronic or printed form but does appear on ENFs faxed to the state and counties. The "**RECEIVED BY:**" and **"Time** and **Date**" are left blank as it is used by only the state and counties.

Additional Requirements:

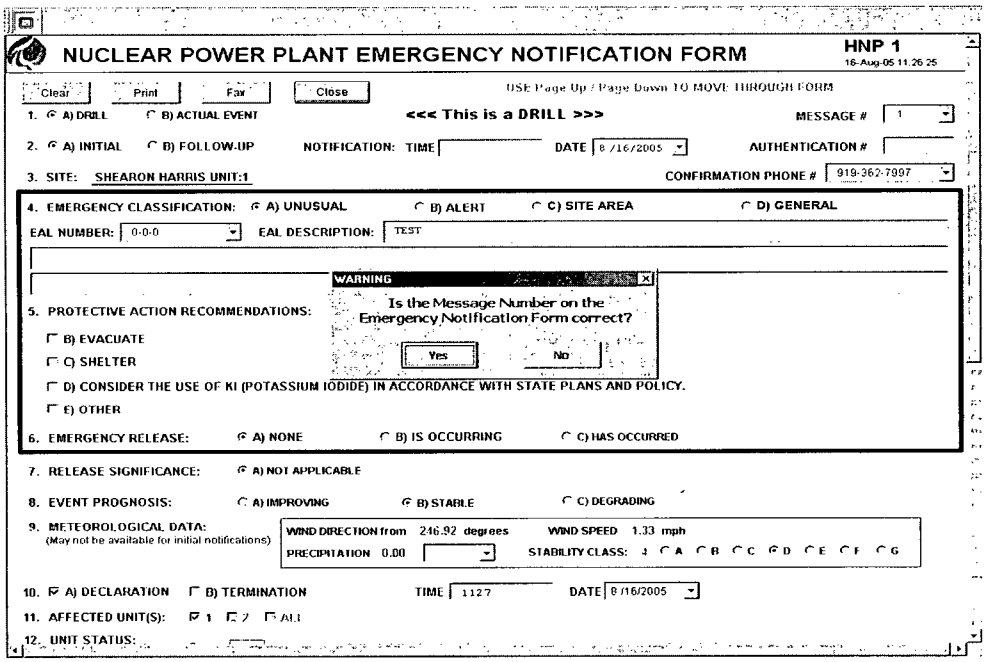
If the EFORM is from some other location other than the Plant PI Server (e.g. PI Simulator Server) the message "This is a Drill Message" will appear at the Top and bottom of the EFORM.

To Fax the EFORM, Click on 'Fax' command button
The following Checks will be made before the user is able to Fax:

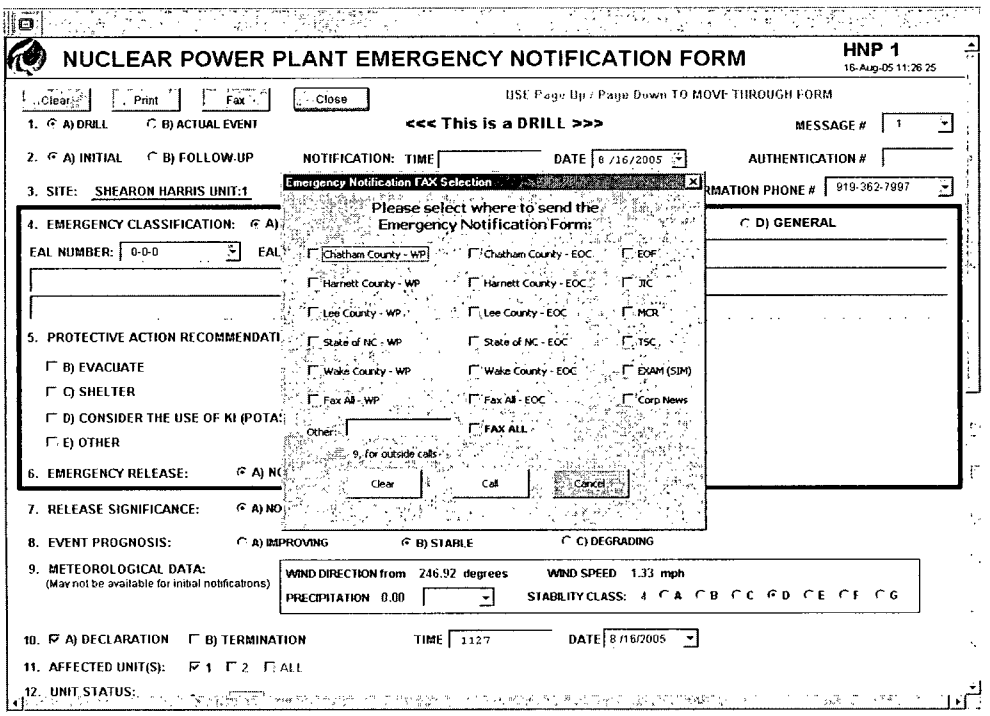
- If Section 4: A, B, C or D is not checked, Faxing the EFORM will not be allowed.
- If Section 4D is checked, then 5B, 5C, 5D or 5E must be checked before Faxing the EFORM is allowed.
- If Section 6: A or B is not checked, faxing the EFORM will not be allowed.

(Continued on next page)

If the EFORM passes the above checks, the final message will appear (similar to the figure below) warning the user to verify that the correct **'Message Number'** is entered. Click on the "Yes" button.



The "Fax Info" window will appear (similar to the figure below). The user will next select the desired agencies to where the EFORM will be faxed. Once the user Selects the desired agencies, the user may select either 'CANCEL' to cancel the Fax request or select **'CALL'** to Fax the EFORM to the desired locations.



If the user is completing the EFORM from the Plant Pi Server, the Faxes will be faxed to the selected off-site agencies. If the user is completing the EFORM from the Simulator Pi Server, the Faxes will be faxed to either the selected off-site agencies or to fax machines located at the initiating site.

Attachment 13 - INPO/ANI NOTIFICATION FORM
Sheet 1 of 1

☐ Institute of Nuclear Power Operations (INPO)
☐ American Nuclear Insurers (ANI)

1. "This is _____ from the Progress Energy Harris Nuclear Plant,
   (Name of caller)
   telephone number 919-362-_____, concerning Unit One."
   (call back number)

2. ☐ This is a drill. ☐ This is an actual emergency.

3. Emergency Classification:

   ☐ Alert ☐ Site Area Emergency ☐ General Emergency

   Basis:_____

   _____

4. Current Plant Conditions/Additional Information _____

   _____

   _____

   _____

   _____

   _____

5. Notification Authorized: _____ _____
   (ERM signature) (Date/time)

6. Name of person notified: (INPO)_____

   (ANI)_____

7. Notification Completed: _____ _____
   (Signature) (Date/time)

Attachment 14 - PLANT PARAMETER INFORMATION FORM (EXAMPLE)

Sheet 1 of 3

Date: _____	**Time:** _____

FUEL STATUS:	
1. GFFD	CPM
2. RCS Activity Sample	_____(time) µci/ml
3. RCS I-131 DE Sample	_____(time) µci/ml
4. Core Exit Temp	°F

REACTOR COOLANT SYSTEM (RCS)		
1. Reactor Power (PR)		%
2. Reactor Power (IR)		(SUR)_____DPM Amps
3. Reactor Power (SR)		(SUR)_____DPM CPS
4. RCS Pressure		PSIG
5. PRZ Level		%
6. Average Temperature		°F
7. RCS Loop A	T_{hot}	_____°F
	T_{cold}	_____°F
	ΔT	°F
8. RCS Loop B	T_{hot}	_____°F
	T_{cold}	_____°F
	ΔT	°F
9. RCS Loop C	T_{hot}	_____°F
	T_{cold}	_____°F
	ΔT	°F
10. Subcooling		°F
11. Charging Flow		GPM
12. Letdown Flow		GPM
13. SI Flow		GPM
14. Boron Concentration (Sample)		_____(time) PPM
15. RVLIS (Dynamic/Full/Upper)		%
16. RCS Leakage		GPM
17. RCPs Operating		A B C

PROVIDE DATA FOR BLANKS

CIRCLE THE CORRECT OPTION, OR LINE THROUGH OTHERS

ABBREVIATIONS AND SYMBOLS:

INOPERABLE **IS**OLATED **NA** = NOT APPLICABLE

▲ = OFF SCALE HIGH ▼ = OFF SCALE LOW

CONTAINMENT STATUS	
1. Phase A - All Isolated	☐ Yes ☐ No
2. CVI - All Isolated	☐ Yes ☐ No
3. Cnmt. Pressure (WR)	PSIG
4. Cnmt. Temperature	°F
5. Hydrogen Concentration	%
6. Sump Level	%
7. RWST Level	%
8. Spray Add. Tank Level	%

SECONDARY SYSTEMS STATUS	
1. Main Steam Flow:	
A. FI-474	_____MPPH
B. FI-484	_____MPPH
C. FI-494	_____MPPH
2. Main Feedwater Flow:	
A. FI-476	_____MPPH
B. FI-486	_____MPPH
C. FI-496	_____MPPH
3. Aux. Feedwater Flow:	
A. FI-2050A	_____KPPH
B. FI-2050B	_____KPPH
C. FI-2050C	_____KPPH
4. Steam Generator Press.:	
A. PI-476	_____PSIG
B. PI-486	_____PSIG
C. PI-496	_____PSIG
5. Steam Generator Levels:	
Wide Range A	_____%
B	_____%
C	_____%
Narrow Range A	_____%
B	_____%
C	_____%
6. SG Safety(s) Open	_____Number A B C
7. SG PORV(s) Open	A B C
8. Primary - Sec. Leakage	GPM

AC ELECTRICAL POWER:	
1. A-SA AC Bus Voltage	V AC
2. B-SB AC Bus Voltage	V AC

DC ELECTRICAL POWER:	
1. A-SA DC Bus Voltage	V DC
2. B-SB DC Bus Voltage	V DC

Attachment 14 - PLANT PARAMETER INFORMATION FORM (EXAMPLE)

Sheet 2 of 3

Date: _____ **Time:** _____

CSFST STATUS:	
CSF-1 Subcriticality	(Red/Orange/Yellow/Green)
CSF-2 Core Cooling	(Red/Yellow/Green)
CSF-3 Heat Sink	(Red/Orange/Yellow/Green)
CSF-4 RCS Integrity	(Red/Orange/Yellow/Green)
CSF-5 Containment	(Red/Orange/Yellow/Green)
CSF-6 RCS Inven.	(Yellow/Green)

SEISMIC CONDITIONS:	
1. "SEISMIC MON OBE EXCEEDED" Alarm	☐ Yes ☐ No
2. White Event Indicator on SMA Control Panel	☐ Yes ☐ No
3. Alarm at Triaxial Spectrum Annunciator	☐ Yes ☐ No
4. Noticeable Tremors	☐ Yes ☐ No

METEOROLOGICAL CONDITIONS:	
1. Wind Speed (lower)	MPH
2. Wind Direction (lower)	From Deg
3. Stability Class	

SPENT FUEL POOL SYSTEMS:	
1. Unit 1 New Fuel Pool Level	Ft.
2. Unit 1 Spent Fuel Pool Level	Ft.

PROVIDE DATA FOR BLANKS

CIRCLE THE CORRECT OPTION, OR LINE THROUGH OTHERS

ESF Equipment Out of Service: _____

_____

_____

_____

Attachment 14 - PLANT PARAMETER INFORMATION FORM (EXAMPLE)

Sheet 3 of 3

Date: _____ **Time:** _____

Only monitors pertinent to event need to be updated. Monitors not relevant to plant condition may be left blank.

RADIATION MONITORS:			TREND (INCREASING OR DECREASING – ARROWS MAY BE USED)
Effluent Monitors:			
1. CNMT Leak Det	REM-1LT-3502-SA	µCi/ml	
2. CNMT Hi Range	REM-1CR-3589-SA	R/hr	
3. CNMT Hi Range	REM-1CR-3590-SB	R/hr	
4. PVS 1 WRGM Effl.	RM-21AV-3509-1SA	µCi/sec	
5. PVS 1 WRGM (L/M/H)	RM-21AV-3509-1SA	µCi/ml	
6. TB Stk 3 WRGM Effl.	RM-1TV-3536-1	µCi/sec	
7. TB Stk 3 WRGM (L/M/H)	RM-1TV-3536-1	µCi/ml	
8. CVPETS	REM-1TV-3534	µCi/ml	
Main Steam Line Monitors:			
1. MSL A	RM-1MS-3591-SB	mR/hr	
2. MSL B	RM-1MS-3592-SB	mR/hr	
3. MSL C	RM-1MS-3593-SB	mR/hr	
Fuel Breach Monitors:			
1. VCT Area	RM-1RR-3595	mR/hr	
2. CSIP A Area	RM-1RR-3599A	mR/hr	
3. CSIP B Area	RM-1RR-3599B	mR/hr	
4. CSIP C Area	RM-1RR-3599C	mR/hr	
5. BRS Hx Area	RM-1RR-3600	mR/hr	
6. Ltdn Hx Area	RM-1RR-3601	mR/hr	
7. Mod Hx Area	RM-1RR-3602	mR/hr	
Waste Process. Bldg. Radiation Monitors:			
1. Stack 5 WRGM Eff	RM-1WV-3546-1	µCi/sec	
2. Stk 5 WRGM (L/M/H)	RM-1WV-3546-1	µCi/ml	
3. Stack 5A WRGM Eff	RM-1WV-3547-1	µCi/sec	
4. Stk 5A WRGM(L/M/H)	RM-1WV-3547-1	µCi/ml	
5. TL&HS Disch	RM-1WL-3540	µCi/ml	
6. SWTS Disch	RM-21WS-3542	µCi/ml	
7. WMT Disch	REM-1WL-3541	µCi/ml	
8. Turbine Bldg Drain	REM-1WL-3528	µCi/ml	
Fuel Handling Bldg. Radiation Monitors:			
1. SFP South (Highest)	RM-1FR-3564A-SA	mR/hr	
2. SFP South (Highest)	RM-1FR-3564B-SB	mR/hr	
3. SFP South (Highest)	RM-1FR-3565A-SA	mR/hr	
4. SFP South (Highest)	RM-1FR-3565B-SB	mR/hr	
5. SFP North (Highest)	RM-1FR-3566A-SA	mR/hr	
6. SFP North (Highest)	RM-1FR-3566B-SB	mR/hr	
7. SFP North (Highest)	RM-1FR-3567A-SA	mR/hr	
8. SFP North (Highest)	RM-1FR-3567B-SB	mR/hr	

ABBREVIATIONS AND SYMBOLS:

INOPERABLE **IS**OLATED **NA** = NOT APPLICABLE

▲ = OFF SCALE HIGH ▼ = OFF SCALE LOW

1. Determine level of fire (alarm) response as specified by the Site Incident Commander or designee.
2. Using 911, request Raleigh or Wake County Emergency Communications to contact the agencies listed in the right column for each level of fire (alarm) response as specified below:

FIRST ALARM FIRE RESPONSE	Apex Fire Department – Engine Holly Springs Fire Department - Engine Apex EMS Wake County Public Safety – WC1 Wake County Emergency Management RDU Crash Fire Rescue
• THE FIRST ALARM FIRE RESPONSE UNITS WILL RESPOND DIRECTLY TO THE HARRIS NUCLEAR PLANT MAIN SECURITY ENTRANCE. • Each Fire Department is to respond with one (1) initial engine and personnel.	

SECOND ALARM FIRE RESPONSE	Wake County Public Safety – WC2 Cary Fire Department – Arial Platform Cary Fire Department – Air Truck Fuquay-Varina Fire Department – Arial Platform Morrisville Fire Department - Engine Fairview Fire Department – Engine
• ALL SECOND ALARM FIRE RESPONSE PERSONNEL AND APPARATUS ARE TO REPORT TO THE STAGING AREA LOCATED AT THE REAR OF THE HARRIS E&EC, TECHNICAL TRAINING FACILITY • Fire & Rescue Personnel will assist Staging and handle Move Up as necessary.	

(Continued on next page)

THIRD ALARM FIRE RESPONSE	Raleigh Fire Department – Engine Raleigh Fire Department - Foam Supply Apex Fire Department – Engine Swift Creek Fire Department – Engine Western Wake Fire Department – Engine Fuquay-Varina Fire Department - Engine Wake County Air Trailer
• ALL THIRD ALARM FIRE RESPONSE PERSONNEL AND APPARATUS ARE TO REPORT TO THE STAGING AREA LOCATED AT THE REAR OF THE HARRIS E & EC, TECHNICAL TRAINING FACILITY • Fire & Rescue Personnel will assist Staging and handle Move Up as necessary.	

Attachment 16 – ACCELERATED CALL TO NRC FOR SECURITY EVENTS

Sheet 1 of 1

1. SEC – TSC, complete Steps 2-4 of this Attachment and direct the Emergency Communicator – NRC or other TSC personnel to complete steps 5-7 (goal of within 15 minutes) using this completed Attachment 16.

2. Circle the applicable emergency classification information, if determined:

"The Harris Nuclear Plant has declared a(n)...."

Unusual Event	**Alert**	**Site Area Emergency**	**General Emergency**
Emergency Event Not Determined			

EAL # (if determined) _____

3. Continue with, "**The attack is an armed assault by...**"

   LAND **WATER** **AIRCRAFT** (SEC circle one):

4. Continue with, "**The attack is**..."

   IMMINENT **IN PROGRESS** **REPELLED** (SEC circle one)

R5.2.8 5. Contact the NRC at the NRC Incident Response Center:

6. When the NRC Headquarters responds say, "**This is the Harris Nuclear Plant reporting a Security Event.**"

7. Provide the bolded information and the emergency information in Steps 2-4 of this attachment that has been circled by the SEC. Provide additional information as it is known.

Revision Summary PEP-310 Revision 21

Page/Section:	Revision Description:
4.5	Added information on activating ERDS. PRR 00201281, PRR 00205018, CORR 00201891
Attachment 1, Section 4	Added Radiological Control Director and EP Advisor phone numbers. PRR 00214663 (editorial)
Attachment 2	Added "using Unusual Event codes or as otherwise directed" to clarify instructions. (editorial)
Attachment 6, Section 2	Replaced "soon" with "within one minute" to clarify how long to wait for the Dialogic System to call back the Main Control Room. PRR 00214663 (editorial)
Attachment 10	Moved 15-minute notification in title from section 2 to section 1 where 15-minute notification requirement actually met. (editorial)
Attachment 11	Removed step 2E. This step is met in step 1E. PRR 00185177 Moved 15-minute notification in title from section 2 to section 1 where 15-minute notification requirement actually met. (editorial) Added clarifying instructions for reading ENF. (editorial) Added clarifying instructions for faxing ENF from the MCR. (editorial)
Attachment 12, Line No 6	Added instructions on how to mark Emergency Notification Form if release is terminated but a new release from a different source or an additional release from a new source begins at the same time. PRR 00204906
Attachment 14	Added that the Plant Parameter Information Form is an example to allow for flexibility in using the form. PRR 00201281