



Tennessee Valley Authority, Post Office Box 2000, Decatur, Alabama 35609-2000

August 13, 2002

10 CFR Part 50, App E

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555-0001

Gentleman:

In the Matter of)	Docket Nos. 50-259
Tennessee Valley Authority)	50-260
		50-296

**BROWNS FERRY NUCLEAR PLANT (BFN) - UNITS 1, 2, and 3
EMERGENCY PLAN IMPLEMENTING PROCEDURE (EPIP) REVISIONS**

TVA is submitting this notification in accordance with the requirements of 10 CFR Part 50, Appendix E, Section V. Specifically, several EPIPs were revised: (1) EPIP-1, Revision 33; (2) EPIP-2, Revision 23; (3) EPIP-3, Revision 26; (4) EPIP-4, Revision 25; (5) EPIP-5, Revision 30; and (6) EPIP-8, Revision 15. The revisions have an effective date of July 30, 2002.

The enclosed information is being sent by certified mail. The signed receipt signifies that you have received this information. If you have any questions, please telephone me at (256) 729-2636.

Sincerely,

T. E. Abney
Manager of Licensing
and Industry Affairs

A045

U.S. Nuclear Regulatory Commission
Page 2
August 13, 2002

cc (Enclosure):

NRC Resident Inspector (Enclosure provided by
Browns Ferry Nuclear Plant BFN Document Control Unit)
P.O. Box 189
Athens, Alabama 35611

Mr. Paul E. Fredrickson (2 Enclosures)
U.S. Nuclear Regulatory Commission
Region II
Sam Nunn Atlanta Federal Center
61 Forsyth Street S.W., Suite 23T85
Atlanta, Georgia 30303-8931

Mr. Kahtan N. Jabbour, Senior Project Manager (w/o Enclosure)
U.S. Nuclear Regulatory Commission
One White Flint, North
(MS 08G9)
Office of Nuclear Reactor Regulation
11555 Rockville Pike
Rockville, Maryland 20852-2738

ENCLOSURE
TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3

EMERGENCY PLAN IMPLEMENTING PROCEDURES (EPIP)
EPIP-1, EPIP-2, EPIP-3, EPIP-4, EPIP-5, AND EPIP-8

SEE ATTACHED

GENERAL REVISIONS

GENERIC FILING INSTRUCTIONS

FILE DOCUMENTS AS FOLLOWS:

PAGES TO BE REMOVED

EPIP-1 REVISION 32 (AFFECTED
PAGES)
EPIP-2 Revision 22
EPIP-3 Revision 25
EPIP-4 Revision 24
EPIP-5 Revision 29
EPIP-8 Revision 14

PAGES TO BE INSERTED

EPIP-1 REVISION 33 (SUPPLIED
PAGES)
EPIP-2 Revision 23
EPIP-3 Revision 26
EPIP-4 Revision 25
EPIP-5 Revision 30
EPIP-8 Revision 15

TENNESSEE VALLEY AUTHORITY

BROWNS FERRY NUCLEAR PLANT

EMERGENCY PLAN IMPLEMENTING PROCEDURE

EPIP-1

EMERGENCY CLASSIFICATION PROCEDURE

REVISION 33

PREPARED BY: T. W. CORNELIUS

PHONE: 2038

RESPONSIBLE ORGANIZATION: EMERGENCY PREPAREDNESS

APPROVED BY: GILBERT LITTLE

DATE: 07/22/2002

EFFECTIVE DATE: 07/30/2002

LEVEL OF USE: REFERENCE USE

QUALITY-RELATED

REVISION LOG

Procedure Number: EPIP-1

Revision Number 33

Pages Affected: 1,57,177

Description of Change:

- IC - 42 EPIP 1, rev. 31 revision is being conducted to change the Site Boundary Radiation Reading from a beta-gamma value to gamma only value. This change does not involve the numerical value. This revision is in compliance with the REP and doesn't affect the BFN EP standard emergency classification and action level scheme. This revision is being conducted to ensure consistency with NUMARC/NESP-007, Reg Guide 1.101, and NEI 99-01 (Rev. 4).
- IC - 43 EPIP 1, rev. 32 is being conducted to modify information that support EAL 1.1-G1, 1.1-G2, and 1.2-G. The revision incorporates changes resulting from modifications to calculations that support Minimum Alternate RPV Flooding Pressures (MARFP) and Minimum Steam Cooling Reactor Water Level (MSCRWL). Revisions to these calculations were conducted in support of the EOI Program Manual Revision 21 (U3C11).
- IC-44 EPIP 1, rev. 33 is being issued to modify EAL 6.7-U. The revision incorporates changes resulting from the letter from NEI to NRC (to Mr. Bruce A. Boger) dated December 18, 2001 requesting confirmation for EAL basis change to include response to a Site -Specific Credible Threat. This was developed in response to NRC's October 6, 2001 Safeguards Advisor. This is additional information and does not change existing criteria in the EAL Basis.

EPIP-1
EMERGENCY CLASSIFICATION PROCEDURE

TABLE OF CONTENTS

	<u>PAGE NUMBER</u>	<u>REVISION</u>
TABLE OF CONTENTS	1	33
SECTION I		
INTRODUCTION		
CLASSIFICATION INSTRUCTIONS.....	3	29
GLOSSARY	5	29
EVENT CLASSIFICATION INDEX.....	11	29
SECTION II		
EVENT CLASSIFICATION MATRIX		
1.0 REACTOR.....	13	30
2.0 PRIMARY CONTAINMENT	21	28
3.0 SECONDARY CONTAINMENT	29	29
4.0 RADIOACTIVITY RELEASES.....	33	30
5.0 LOSS OF POWER.....	39	29
6.0 HAZARDS.....	45	30
7.0 NATURAL EVENTS.....	61	28
8.0 EMERGENCY DIRECTOR JUDGEMENT.....	67	29
SECTION III		
BASIS		
1.0 REACTOR.....	75	30
2.0 PRIMARY CONTAINMENT	97	28
3.0 SECONDARY CONTAINMENT	116	29
4.0 RADIOACTIVITY RELEASE.....	126	30
5.0 LOSS OF POWER.....	139	29
6.0 HAZARDS.....	155	30
7.0 NATURAL EVENTS.....	183	28
8.0 EMERGENCY DIRECTOR JUDGEMENT.....	190	29

EPIP-1
EMERGENCY CLASSIFICATION PROCEDURE

THIS PAGE INTENTIONALLY BLANK

HAZARDS

6.0

NOTES:

CURVES/TABLES:

RADIOLOGICAL		
	DESCRIPTION	DESCRIPTION
6 1-U	Valid, unexpected increase of ANY in plant ARM reading to 1000 mrem/hr (except TIP Room) OPERATING CONDITION: -All	UNUSUAL EVENT
6 1-A1	Valid, unexpected increase of ANY in plant ARM reading to 1000 mrem/hr (except TIP Room) AND Personnel actions required in the affected area(s) OPERATING CONDITION: -All	ALERT
		SITE EMERGENCY
		GENERAL EMERGENCY

NOTES:

CURVES/TABLES:

CONTROL ROOM EVACUATION		TURBINE FAILURE		
DESCRIPTION		DESCRIPTION		
		6.3-U	Turbine failure resulting in casing penetration OR Significant damage to turbine or generator seals during operation OPERATING CONDITION: -Mode 1 -Mode 2	UNUSUAL EVENT
6.2-A	Control Room Abandonment from entry into AOI-100-2 or SSI-16 for ANY Unit Control Room. OPERATING CONDITION -All	6.3-A	Turbine failure resulting in visible structural damage to or penetration of ANY of the following structures from missiles <ul style="list-style-type: none"> • Reactor Building • Diesel Generator Building • Intake Structures • Control Bay OPERATING CONDITION -Mode 1 -Mode 2	ALERT
6.2-S	Control Room Abandonment from entry into AOI-100-2 or SSI-16 for ANY Unit Control Room. AND Control of Reactor water level, Reactor pressure, and Reactor power (for Modes 1, 2, & 3) or decay heat removal (for Modes 4 & 5) per AOI-100-2 or SSI-16 as applicable CANNOT be established within 20 minutes after evacuation is initiated. OPERATING CONDITION. -All			SITE EMERGENCY
				GENERAL EMERGENCY

NOTES:

CURVES/TABLES:

TABLE 6.4-U1 APPLICABLE PLANT AREA
REACTOR BUILDING
REFUEL FLOOR
4KV SHUTDOWN BOARD ROOMS
4KV SHUTDOWN BOARD BATTERY ROOMS
480V SHUTDOWN BOARD ROOMS
3A and 3B RMOV BOARD ROOMS
4KV BUS TIE BOARD ROOM
CONTROL BAY ELEVATION 593', 606' and 617'
DIESEL GENERATOR BUILDINGS (ALL ELEVATIONS)
TURBINE BUILDING (ALL ELEVATIONS IN OR ADJACENT TO AREAS CONTAINING SAFE SHUTDOWN EQUIPMENT)
INTAKE PUMPING STATION (ALL ELEVATIONS)
RADWASTE BUILDING (ALL ELEVATIONS)
CABLE TUNNEL (INTAKE TO TURBINE BUILDING)
STANDBY GAS TREATMENT BUILDING

TABLE 6.4-A APPLICABLE PLANT AREA
REACTOR BUILDING
REFUEL FLOOR
4KV SHUTDOWN BOARD ROOMS
4KV SHUTDOWN BOARD BATTERY ROOMS
480V SHUTDOWN BOARD ROOMS
3A and 3B RMOV BOARD ROOMS
4KV BUS TIE BOARD ROOM
CONTROL BAY ELEVATION 593', 606' and 617'
DIESEL GENERATOR BUILDINGS (ALL ELEVATIONS)
INTAKE PUMPING STATION (ALL ELEVATIONS)
CABLE TUNNEL (INTAKE TO TURBINE BUILDING)
STANDBY GAS TREATMENT BUILDING

FIRE/EXPLOSION		
DESCRIPTION	DESCRIPTION	
<p>6.4-U1 </p> <p>Confirmed fire in ANY plant area listed in Table 6 4-U1 AND NOT extinguished within 15 minutes</p> <p>OPERATING CONDITION -All</p>	<p>6.4-U2</p> <p>Unanticipated explosion within the protected area resulting in visible damage to ANY permanent structure or equipment</p> <p>OPERATING CONDITION. -All</p>	UNUSUAL EVENT
<p>6.4-A </p> <p>Fire or explosion in ANY plant area listed in Table 6 4-A affecting safety system performance OR Fire or explosion causing visible damage to permanent structures or safety systems in ANY area listed in Table 6 4-A</p> <p>OPERATING CONDITION -All</p>		ALERT
		SITE EMERGENCY
		GENERAL EMERGENCY

NOTES:

CURVES/TABLES:

TABLE 6.5/6.6 APPLICABLE PLANT AREA	
REACTOR BUILDINGS	
REFUEL FLOOR	
CONTROL BAY	
DIESEL GENERATOR BUILDINGS	
TURBINE BUILDING	
INTAKE PUMPING STATION	
RADWASTE BUILDING	
CABLE TUNNEL (INTAKE TO TURBINE BUILDING)	
STANDBY GAS TREATMENT BUILDING	

TOXIC GASES	
DESCRIPTION	DESCRIPTION
<p>6.5-U </p> <p>EITHER of the following conditions exists</p> <ul style="list-style-type: none"> • Normal operations impeded due to access restrictions caused by toxic gas concentrations within any building or structure listed in Table 6 5/6 6. • Confirmed report by Local, County, or State Officials that a large offsite toxic gas release has occurred within one mile of the site with potential to enter the site boundary in concentrations at or above the Permissible Exposure Limit (PEL) causing an evacuation of any site personnel <p>OPERATING CONDITION: -All</p>	UNUSUAL EVENT
<p>6.5-A </p> <p>ALL of the following conditions exists</p> <ul style="list-style-type: none"> • Plant personnel report toxic gas within any building or structure listed in Table 6 5/6 6 • Plant personnel report severe adverse health reactions due to toxic gas (i e , burning eyes, throat, or dizziness) <p style="text-align: center;">or</p> <p>Sampling results by Fire Protection or Industrial Safety personnel indicate levels above the Permissible Exposure Limit (PEL)</p> <ul style="list-style-type: none"> • Determination by the Site Emergency Director that plant personnel would be unable to perform actions necessary to establish and maintain cold shutdown conditions while utilizing appropriate personnel protective equipment. <p>OPERATING CONDITION -ALL</p>	ALERT
	SITE EMERGENCY
	GENERAL EMERGENCY

NOTES:

CURVES/TABLES:

TABLE 6.5/6.6 APPLICABLE PLANT AREA
REACTOR BUILDINGS
REFUEL FLOOR
CONTROL BAY
DIESEL GENERATOR BUILDINGS
TURBINE BUILDING
INTAKE PUMPING STATION
RADWASTE BUILDING
CABLE TUNNEL (INTAKE TO TURBINE BUILDING)
STANDBY GAS TREATMENT BUILDING

FLAMMABLE GASES	
DESCRIPTION	DESCRIPTION
<p>6.6-U </p> <p>EITHER of the following conditions exists</p> <ul style="list-style-type: none"> • Release of flammable gas within the site boundary in concentrations at or above 25% of the Lower Explosive Limit (LEL) for any three readings obtained in a 10 ft triangular area as indicated by Fire Protection or Industrial Safety personnel using appropriate monitoring instrumentation • Confirmed report by Local, County, or State Officials that a large offsite flammable gas release has occurred within one mile of the site with potential to enter the site boundary in concentrations at or above 25% of the Lower Explosive Limit (LEL) <p>OPERATING CONDITION -All</p>	UNUSUAL EVENT
<p>6.6-A </p> <p>Release of flammable gases within any building or structure listed in Table 6 5/6.6 in concentrations at or above 25% of the Lower Explosive Limit (LEL) for any three readings obtained in a 10 ft triangular area as indicated by Fire Protection or Industrial Safety personnel using appropriate monitoring instrumentation</p> <p>OPERATING CONDITION -All</p>	ALERT
	SITE EMERGENCY
	GENERAL EMERGENCY

NOTES:

CURVES/TABLES:

SECURITY	
	DESCRIPTION
6.7-U	<p>ANY of the following conditions exist:</p> <ul style="list-style-type: none"> • Bomb device discovered within the plant protected area but NOT within a vital area • Attempted or imminent attempt by a hostile force to penetrate the plant protected area barrier • Civil disturbance ongoing on the owner controlled property outside the protected area that threatens to interrupt plant operations • Hostage/Extortion situation that threatens to interrupt plant operations • A credible site-specific security threat notification <p>OPERATING CONDITION -All</p>
6.7-A	<p>Bomb device discovered within ANY plant vital area OR Actual intrusion into the plant protected area by a hostile force.</p> <p>OPERATING CONDITION -All</p>
6.7-S	<p>Intrusion into ANY plant vital area by a hostile force.</p> <p>OPERATING CONDITION -All</p>
6.7-G	<p>Intrusion by a hostile force into Control Rooms, backup control areas, or plant vital areas which results in a loss of physical control of equipment or functions required to reach and maintain safe shutdown or remove decay heat from any unit.</p> <p>OPERATING CONDITION: -All</p>
UNUSUAL EVENT	
ALERT	
SITE EMERGENCY	
GENERAL EMERGENCY	

NOTES:

CURVES/TABLES:

VEHICLE CRASH		
DESCRIPTION	DESCRIPTION	
<p>6.8-U</p> <p>Vehicle crash (for example; aircraft or barge) into plant structures or systems within the protected area boundary.</p> <p>OPERATING CONDITION -All</p>		UNUSUAL EVENT
<p>6.8-A</p> <p>Vehicle crash (for example, aircraft or barge) into ANY Plant vital area.</p> <p>OPERATING CONDITION -All</p>		ALERT
		SITE EMERGENCY
		GENERAL EMERGENCY

THIS PAGE INTENTIONALLY BLANK

HAZARDS

6.0

RADIOLOGICAL

6.1-U

UNUSUAL EVENT

Valid, unexpected increase of ANY in plant Area Radiation Monitor (ARM) reading to 1000 mrem/hr (except TIP Room).

OPERATING - All
CONDITION

BASIS This event classification addresses unexpected increases in plant radiation levels that represent a degradation in the control of radioactive material, and constitute a potential degradation in the level of safety of the plant.

The term valid means that the instrument reading can be confirmed by other plant instrumentation indications, is consistent with an on-going transient or unplanned event, or that the condition is verified by RADCON. The term unexpected implies an increase not attributable to an anticipated transient such as a radwaste resin transfer, radiography, calibration activity, etc.

The Control Room is not included because it is an area which requires continuous occupancy and is covered under event classification 6.1-A 2. The TIP Room is not included because high ARM readings may not necessarily indicate a degradation in the control of radioactive materials and no personnel actions are required in the TIP area to safely shutdown the plant or maintain safe shutdown

Escalation to Alert is based on operations required in the affected area(s) to safely shutdown the plant or maintain safe shutdown.

REFERENCES - Reg Guide 1.101 Rev. 3, (NUMARC-AU2 EXAMPLE 4)
- RIMS R38 940916 970
- EOI Program Manual, Section V-E

RADIOLOGICAL

6.1-A1

ALERT

Valid, unexpected increase of ANY in plant Area Radiation Monitor (ARM) reading to 1000 mrem/hr (except TIP Room)

AND

Personnel actions required in the affected area(s).

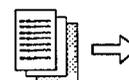
OPERATING - All
CONDITION

BASIS This event classification addresses increased radiation levels that may impede necessary access to critical operating areas when conditions necessitate equipment operation or maintenance in those areas in order to maintain safe operation or achieve safe shutdown. The impaired ability to perform inplant operations represents an actual or potential degradation in the level of safety of the plant. It is appropriate to ensure that additional personnel are onsite to perform necessary operations and maintenance and provide proper approvals, surveys, and radiation protection; therefore, the alert classification is justified.

The term valid means that the instrument reading can be confirmed by other plant instrumentation indications or is verified by RADCON. The term unexpected implies an increase not attributable to an anticipated transient such as a radwaste resin transfer, radiography, calibration activity, etc.

The Control Room is not included because it is an area which requires continuous occupancy and is covered under event classification 6.1-A.2. The TIP Room is not included because no personnel actions are required in the area to safely shutdown the plant or maintain safe shutdown.

Escalation to Site Area Emergency or General Emergency is based on Secondary Containment radiation, radiological release, or fission product barrier event classifications.



RADIOLOGICAL

6.1-A1

ALERT
(CONTINUED)

- REFERENCES - Reg Guide 1.101 Rev. 3, (NUMARC-AA3 EXAMPLE 2)
- RIMS R38 940916 970
- EOI Program Manual, Section V-E

RADIOLOGICAL

6.1-A2

ALERT

Control Room radiation levels >15 mrem/hr.

OPERATING - All
CONDITION

BASIS This event classification applies to areas requiring continuous occupancy to maintain safe operation or safely shutdown the plant. At Browns Ferry the Control Room is the only area within the plant that should require continuous manning under these conditions. Other areas (e.g , TSC, OSC) can be relocated to an area of lower dose. Radwaste operations can be suspended and the Radwaste Control Room can be evacuated. The Central Alarm Station (CAS) is not included because of the location at the plant entrance away from the main building. It would not be possible to achieve these levels at the CAS without already reaching alert classification through radiological release.

This event classification may be redundant to fission product barrier and radiological release event classifications; however the cause of the event is not a concern. This event classification is only intended to address exposures to personnel who must be present at required operating stations for long term operation.

Escalation to Site Area Emergency or General Emergency is based on Secondary Containment radiation, radiological release, or fission product barrier event classifications.

REFERENCES - Reg Guide 1.101 Rev. 3, (NUMARC-AA3 EXAMPLE 1)

CONTROL ROOM EVACUATION 6.2-A

ALERT

Control Room Abandonment from entry into AOI-100-2 or
SSI-16 for ANY Unit Control Room.

OPERATING - All
CONDITION

BASIS With the control room evacuated, additional support, monitoring, and direction through the Technical Support Center and/or other Emergency Operations Centers may be necessary. The Alert declaration ensures centers are manned to provide the necessary additional support.

Escalation to Site Area Emergency is based on inability to establish plant control from outside the control room within 20 minutes.

REFERENCES - Reg Guide 1.101 Rev. 3, (NUMARC-HA5)

CONTROL ROOM EVACUATION 6.2-S

SITE AREA EMERGENCY

Control Room Abandonment from entry into AOI-100-2 or SSI-16 for ANY Unit Control Room.

AND

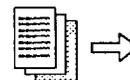
Control of Reactor water level, Reactor pressure, and Reactor power (for Modes 1,2, & 3) or decay heat removal (for Modes 4 & 5) per AOI-100-2 or SSI-16, as applicable, CANNOT be established within 20 minutes after evacuation is initiated.

OPERATING - All
CONDITION

BASIS This event classification is intended to recognize loss of control of critical parameters either by failure of equipment designed to automatically initiate for control of the parameter or failure to expeditiously transfer safety system control to the backup controls. Fission product barrier damage may not yet be indicated but should be considered by assessing available parameters versus the status of safety systems and the ability to control critical parameters. In Mode 4 and Mode 5 operator concern should be directed towards maintaining core cooling using decay heat removal systems. In power operation, hot standby, and hot shutdown operator concern is primarily directed toward maintaining critical parameters, (i.e., level, pressure, power, and heat sink) and thereby assuring fission product barrier integrity.

The 20 minute time period is based on time required for personnel to leave the control room, arrive at the appropriate backup control station, and take control of critical parameters before core uncover or core damage has occurred. This timeframe has been projected within the Tennessee Valley Authority, Browns Ferry Nuclear Plant, Fire Protection Report - Unit 2 and 3. During execution of procedures and transfer of equipment control, the listed critical parameters may be considered as being controlled if the parameters can be verified as being maintained within safe value ranges by appropriate equipment and automatic initiation functions designed to control the parameter (example: HPCI auto initiated and raised RPV level to a value above the initiation setpoint.).

Escalation to General Emergency is by fission product barrier degradation radioactivity release, or Emergency Director Judgement event classification



CONTROL ROOM EVACUATION 6.2-S

SITE AREA EMERGENCY
(CONTINUED)

REFERENCES - Reg Guide 1.101 Rev. 3, (NUMARC-HS2)
Fire Protection Report Units 2 and 3

TURBINE FAILURE

6.3-U

UNUSUAL EVENT

Turbine failure resulting in casing penetration

OR

Significant damage to Turbine or Generator seals during operation.

OPERATING - Mode 1
CONDITION - Mode 2

BASIS This event classification is intended to address Main Turbine rotating component failures of sufficient magnitude to cause observable damages to the Turbine casing or to the seals of the Turbine or Generator. Of major concern is the potential for leakage of combustible fluids (lubricating oil) and gases (hydrogen) into the plant and environs. Actual fires and flammable gas buildup are classified under other event classification. This event classification is consistent with unusual event while maintaining the anticipatory nature desired and recognizing the risk to nonsafety related equipment.

Escalation to higher event classification is based on potential damage to safety related equipment from missiles generated by the failure or by radioactivity release.

REFERENCES - Reg Guide 1.101 Rev. 3, (NUMARC-HU1 EXAMPLE 6)

TURBINE FAILURE

6.3-A

ALERT

Turbine failure resulting in visible structural damage to or penetration of ANY of the following structures from missiles:

- **Reactor Building**
- **Diesel Generator Building**
- **Intake Structures**
- **Control Bay**

OPERATING - Mode 1
CONDITION - Mode 2

BASIS This event classification is intended to address the threat to safety-related equipment imposed by missiles generated by Main Turbine rotating component failures. Areas included are plant areas containing safety related equipment required to safely operate or safely shutdown the plant. The Alert classification assures adequate personnel are available to perform thorough assessment of damage to structures and equipment in the affected areas.

Escalation to higher event classification is based on system malfunction, fission product barrier degradation, radioactivity release, or Emergency Director Judgement event classifications.

REFERENCES - Reg Guide 1.101 Rev. 3, (NUMARC-HA 1 EXAMPLE 6)

FIRE/EXPLOSION

6.4-U1

UNUSUAL EVENT

Confirmed fire in ANY plant area listed in Table 6.4-U1

AND

NOT extinguished within 15 minutes.

OPERATING - All
CONDITION

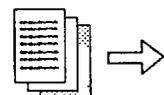
BASIS The purpose of this event classification is to address the magnitude and extent of fires that may be potentially significant precursors to damage to safety systems. This excludes such items as fires within administration buildings, waste basket fires, and other small fires with no safety significance. This event classification applies to plant vital areas, buildings and areas contiguous to plant vital areas, or areas which have the potential to cause significant release of radioactive material such as Radwaste. These areas are included in Table 6.4-U1.

Confirmation of fire includes those actions listed in the appropriate Alarm Response Procedure (ARP) to verify the alarm is not spurious or by visual observation by personnel in the field. If confirmation cannot be positively ascertained within 15 minutes and symptoms indicative of a fire persists then confirmation should be assumed and this event classification declared

Allowance of fifteen minutes for extinguishment is provided to exclude small fires, easily extinguishable, with no significant safety consequence.

Escalation to Alert is based on fire affecting the operability of plant safety systems required for the current operating condition.

REFERENCES - Reg Guide 1.101 Rev. 3, (NUMARC-HU2)
- Browns Ferry Nuclear Plant Safe Shutdown Program



FIRE/EXPLOSION

6.4-U1

UNUSUAL EVENT
(CONTINUED)

CURVES/TABLES

TABLE 6.4-U1 APPLICABLE PLANT AREA
REACTOR BUILDING
REFUEL FLOOR
4KV SHUTDOWN BOARD ROOMS
4KV SHUTDOWN BOARD BATTERY ROOMS
480V SHUTDOWN BOARD ROOMS
3A and 3B RMOV BOARD ROOMS
4KV BUS TIE BOARD ROOM
CONTROL BAY ELEVATION 593', 606' and 617'
DIESEL GENERATOR BUILDINGS (ALL ELEVATIONS)
TURBINE BUILDING (ALL ELEVATIONS IN OR ADJACENT TO AREAS CONTAINING SAFE SHUTDOWN EQUIPMENT)
INTAKE PUMPING STATION (ALL ELEVATIONS)
RADWASTE BUILDING (ALL ELEVATIONS)
CABLE TUNNEL (INTAKE TO TURBINE BUILDING)
STANDBY GAS TREATMENT BUILDING

FIRE/EXPLOSION

6.4-U2

UNUSUAL EVENT

Unanticipated explosion within the protected area resulting in visible damage to ANY permanent structure or equipment.

OPERATING - All
CONDITION

BASIS The purpose of this event classification is to recognize only those explosions of sufficient force to damage permanent structures or equipment within the protected area. An explosion is defined as rapid, violent, unconfined combustion, or a catastrophic failure of pressurized equipment that potentially imparts significant energy to nearby structures and materials. This event classification makes no attempt to assess the actual magnitude of the damage. The occurrence of the explosion with reports of evidence of damage (e.g., deformation and scorching) is sufficient for declaration. The Site Emergency Director also needs to consider any security aspects of the explosion if applicable.

Escalation to Alert is based on explosion affecting safety system performance or causing visible damage to structures or equipment required for safe shutdown.

REFERENCES - Reg Guide 1.101 Rev. 3, (NUMARC-HU1 EXAMPLE 5)

FIRE/EXPLOSION

6.4-A

ALERT

**Fire or explosion in ANY plant area listed in Table 6.4-A
affecting safety system performance**

OR

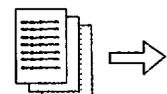
**Fire or explosion causing visible damage to permanent structures
or safety systems in ANY area listed in Table 6.4-A.**

OPERATING - All
CONDITION

BASIS This event classification is intended to address the magnitude and extent of fires that potentially or actually affect one or more redundant trains of safety systems or structures containing safety systems. Areas listed in Table 6.4-A are those plant areas that contain systems or functions required for the safe shutdown of the plant.

With regard to explosions, only those explosions of sufficient force to damage permanent structures or equipment required for safe operation within the identified plant area should be considered. An explosion is defined as a rapid, violent, unconfined combustion, or a catastrophic failure of pressurized equipment that potentially imparts significant energy to nearby structures and materials. The occurrence of an explosion with reports of visible damage is sufficient evidence for determination of this event. No attempt should be made to perform a detailed assessment before declaration is considered. Declaration of Alert with subsequent manning of support personnel will provide adequate personnel to make a detailed assessment. The Site Emergency Director should also consider any security aspects of the explosion.

Escalation to Site Area Emergency is based on system malfunction, fission product barrier degradation, radioactivity release, or Emergency Director Judgement .



FIRE/EXPLOSION

6.4-A

ALERT
(CONTINUED)

- REFERENCES - Reg Guide 1.101 Rev. 3, (NUMARC-HA2)
- Browns Ferry Nuclear Plant Safe Shutdown Program

CURVES/TABLES

TABLE 6.4-A APPLICABLE PLANT AREA
REACTOR BUILDING
REFUEL FLOOR
4KV SHUTDOWN BOARD ROOMS
4KV SHUTDOWN BOARD BATTERY ROOMS
480V SHUTDOWN BOARD ROOMS
3A and 3B RMOV BOARD ROOMS
4KV BUS TIE BOARD ROOM
CONTROL BAY ELEVATION 593', 606' and 617'
DIESEL GENERATOR BUILDINGS (ALL ELEVATIONS)
INTAKE PUMPING STATION (ALL ELEVATIONS)
CABLE TUNNEL (INTAKE TO TURBINE BUILDING)
STANDBY GAS TREATMENT BUILDING

TOXIC GASES

6.5-U

UNUSUAL EVENT

EITHER of the following conditions exists:

- Normal operations impeded due to access restrictions caused by toxic gas concentrations within any building or structure listed in Table 6.5/6.6.
- Confirmed report by Local, County, or State Officials that a large offsite toxic gas release has occurred within one mile of the site with potential to enter the site boundary in concentrations at or above the Permissible Exposure Limit (PEL) causing an evacuation of any site personnel.

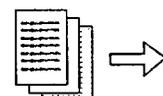
OPERATING - All
CONDITION

BASIS This event classification is based on significant releases of toxic gases that could affect the health and safety of plant personnel or affect the safe operation of the plant with the plant being within the evacuation area of an offsite event (i.e., tanker truck or barge accident releasing toxic or flammable gas, etc.). The evacuation area is determined from the Department of Transportation (DOT) Evacuation Tables for selected hazardous materials, in the DOT Emergency Response Guide for hazardous materials.

Table 6.5/6.6 contains plant vital areas, buildings and areas contiguous to plant vital areas, and other significant plant buildings or structures where operations may be required to assure safe operation of the plant.

Escalation to Alert is based on gases entering plant structures and affecting safe operation of the plant

REFERENCES - Reg Guide 1.101 Rev. 3, (NUMARC-HU3)



TOXIC GASES

6.5-U

UNUSUAL EVENT
(CONTINUED)

CURVES/TABLES

TABLE 6.5/6.6 APPLICABLE PLANT AREA
REACTOR BUILDINGS
REFUEL FLOOR
CONTROL BAY
DIESEL GENERATOR BUILDINGS
TURBINE BUILDING
INTAKE PUMPING STATION
RADWASTE BUILDING
CABLE TUNNEL (INTAKE TO TURBINE BUILDING)
STANDBY GAS TREATMENT BUILDING

TOXIC GASES

6.5-A

ALERT

ALL of the following conditions exists:

- Plant personnel report toxic gas within any building or structure listed in Table 6.5/6.6.
- Plant personnel report severe adverse health reactions due to toxic gas (i.e., burning eyes, throat, or dizziness)

OR

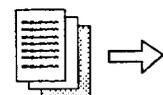
Sampling results by Fire Protection or Industrial Safety personnel indicate levels above the Permissible Exposure Limit (PEL).

- Determination by the Site Emergency Director that plant personnel would be unable to perform actions necessary to establish and maintain Mode 4 conditions while utilizing appropriate personnel protective equipment.

OPERATING - All
CONDITION

BASIS This event classification is based on toxic gases that have entered a plant structure affecting safe operation of the plant. This event classification applies to buildings and areas contiguous to plant vital areas or other significant buildings or areas (i.e., intake and Standby Gas Treatment buildings) The intent of this event classification is not to include buildings (i.e., warehouses and administration buildings) or other areas that are not contiguous or immediately adjacent to plant vital areas. It is appropriate that increased monitoring be performed to ascertain whether consequential damage has occurred.

Escalation to higher emergency class is based on system malfunction, fission product barrier degradation, radioactivity release, or Emergency Director Judgement event classification.



TOXIC GASES

6.5-A

ALERT
(CONTINUED)

REFERENCES - Reg Guide 1.101 Rev. 3, (NUMARC-HA3)

CURVES/TABLES

TABLE 6.5/6.6 APPLICABLE PLANT AREA
REACTOR BUILDINGS
REFUEL FLOOR
CONTROL BAY
DIESEL GENERATOR BUILDINGS
TURBINE BUILDING
INTAKE PUMPING STATION
RADWASTE BUILDING
CABLE TUNNEL (INTAKE TO TURBINE BUILDING)
STANDBY GAS TREATMENT BUILDING

FLAMMABLE GASES

6.6-U

UNUSUAL EVENT

EITHER of the following conditions exists:

- Release of flammable gas within the site boundary in concentrations at or above 25% of the Lower Explosive Limit (LEL) for any three readings obtained in a 10 ft. triangular area as indicated by Fire Protection or Industrial Safety personnel using appropriate monitoring instrumentation.
- Confirmed report by Local, County, or State Officials that a large offsite flammable gas release has occurred within one mile of the site with potential to enter the site boundary in concentrations at or above 25% of the Lower Explosive Limit (LEL).

OPERATING - All
CONDITION

BASIS This event classification is based on significant releases of flammable gases that could affect the safe operation of the plant with the plant being within the evacuation area of an offsite event (i.e., tanker truck or barge accident releasing toxic or flammable gas, etc.). The evacuation area is determined from the Department of Transportation (DOT) Evacuation Tables for selected hazardous materials, in the DOT Emergency Response Guide for hazardous materials.

Escalation to Alert is based on flammable gases entering plant structures and affecting safe operation of the plant.

REFERENCES - Reg Guide 1.101 Rev. 3, (NUMARC-HU3)

FLAMMABLE GASES

6.6-A

ALERT

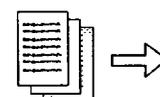
Release of flammable gases within any building or structure listed in Table 6.5/6.6 in concentrations at or above 25% of the Lower Explosive Limit (LEL) for any three readings obtained in a 10 ft. triangular area as indicated by Fire Protection of Industrial Safety personnel using appropriate monitoring instrumentation.

OPERATING - All
CONDITION

BASIS This event classification is based on flammable gases that have entered a plant structure with potential to affect safe operation of the plant. This event classification applies to buildings and areas contiguous to plant vital areas or other significant buildings or areas (i.e., intake and Standby Gas Treatment buildings). The intent of this event classification is not to include buildings (i.e., warehouses and administration buildings) or other areas that are not contiguous or immediately adjacent to plant vital areas. It is appropriate that increased monitoring be performed to ascertain whether consequential damage has occurred.

Escalation to higher emergency class is based on system malfunction, fission product barrier degradation, radioactivity release, or Emergency Director Judgement event classification

REFERENCES - Reg Guide 1.101 Rev. 3, (NUMARC-HA3
EXAMPLE 1&2)



FLAMMABLE GASES

6.6-A

ALERT
(CONTINUED)

CURVES/TABLES

TABLE 6.5/6.6 APPLICABLE PLANT AREA
REACTOR BUILDINGS
REFUEL FLOOR
CONTROL BAY
DIESEL GENERATOR BUILDINGS
TURBINE BUILDING
INTAKE PUMPING STATION
RADWASTE BUILDING
CABLE TUNNEL (INTAKE TO TURBINE BUILDING)
STANDBY GAS TREATMENT BUILDING

SECURITY

6.7-U

UNUSUAL EVENT

ANY of the following conditions exists:

- Bomb device discovered within the plant protected area but NOT within a vital area.
- Attempted or imminent attempt by a hostile force to penetrate the plant protected area barrier.
- Civil disturbance ongoing on the owner controlled property outside the protected area that threatens to interrupt plant operations.
- Hostage/Extortion situation that threatens to interrupt plant operations.
- A credible site-specific security threat notification

OPERATING - All
CONDITION

BASIS This event classification represents a potential degradation in the level of safety of the plant due to potential damage to permanent plant structures, intrusion or attempted intrusion of the protected area or disturbance that may affect plant operations; therefore, the Unusual Event classification is appropriate

For the purposes of this event classification the following definitions apply:

Civil Disturbance - A group of 20 or more persons violently protesting station operations or activities at the site;

Extortion - An attempt to cause an action at the station by threat or force;

Hostage - Person(s) held as leverage against the station to ensure that demands will be met by the station.

A credible site-specific security information has been received.

The intent of "a credible site-specific security notification" is to ensure that appropriate notifications are made on a timely manner. Only the plant to which the specific threat is made need declare the Notification of Unusual Event.

The determination of "credible" is made by senior plant management through use of information found in the Safeguards Contingency Plan

Escalation to Alert is based on bomb device being discovered within a plant vital area or actual intrusion into the plant protected area by a hostile force.

REFERENCES - Reg Guide 1.101 Rev. 3, (NUMARC-HU4 EXAMPLE 1 & 2)
- Browns Ferry Physical Security/Contingency Plan

SECURITY

6.7-A

ALERT

Bomb device discovered within ANY plant vital area

OR

Actual intrusion into the plant protected area by a hostile force.

**OPERATING - All
CONDITION**

BASIS The first part of this event classification represents a potential substantial degradation in the level of safety of the plant due to the threat to vital safety systems. Actual discovery of the device is required to meet this classification. Any detonation of an explosive device could result in declaration under Fire/Explosion event classifications.

The second part of this event classification represents a substantial degradation in the level of safety of the plant due to the extreme measures that must be taken by an intruder to enter the protected area. Hostile intent must be suspected to meet this classification. A civil disturbance which penetrates the protected area boundary can be considered a hostile force.

Escalation is by actual intrusion into a vital area by a hostile force.

REFERENCES - Reg Guide 1.101 Rev. 3, (NUMARC-HA4 EXAMPLE 1 & 2)
- Browns Ferry Physical Security/Contingency Plan

SECURITY

6.7-S

SITE AREA EMERGENCY

Intrusion into ANY plant vital area by a hostile force.

OPERATING - All
CONDITION

BASIS This event represents a substantial degradation in the level of safety of the plant due to the extreme measures that must be taken by an intruder to enter a vital area. Hostile intent must be suspected to meet this classification. This event represents a possible threat to the public and an escalated threat to plant safety above that contained in the Alert event classification in that a hostile force has progressed from the protected area to the vital area.

Escalation is by actions occurring involving a hostile force which results in a loss of physical control of equipment or functions required to reach and maintain safe shutdown or remove decay heat from any unit.

REFERENCES - Reg Guide 1.101 Rev. 3, (NUMARC-HS1 EXAMPLE 1)

SECURITY

6.7-G

GENERAL EMERGENCY

Intrusion by a hostile force into Control Rooms, backup control areas, or plant vital areas which results in a loss of physical control of equipment or functions required to reach and maintain safe shutdown or remove decay heat from any unit.

**OPERATING - All
CONDITION**

BASIS This event represents an extreme threat to the safety of the plant and possible substantial threat to the public. This event encompasses conditions under which a hostile force has taken physical control of vital areas required to reach and maintain safe shutdown.

REFERENCES - Reg Guide 1.101 Rev. 3, (NUMARC-HG1 EXAMPLE 1 & 2)

VEHICLE CRASH

6.8-U

UNUSUAL EVENT

Vehicle crash (for example; aircraft or barge) into plant structures or systems within the protected area boundary.

OPERATING - All
CONDITION

BASIS This event classification is intended to address such items as plane, helicopter, or barge crash that may potentially damage plant structures containing functions and systems required for safe shutdown of the plant

The crash should be of sufficient impact to cause structural damage to a plant system or structure. Visual observation of structural damage is sufficient to trigger this event classification.

Escalation to higher emergency class is based on crash into any plant area affecting equipment required for safe shutdown or by system malfunction event classifications.

REFERENCES - Reg Guide 1.101 Rev. 3, (NUMARC-HU1 EXAMPLE 4)

VEHICLE CRASH

6.8-A

ALERT

Vehicle crash (for example; aircraft or barge) into ANY Plant vital area.

OPERATING - All
CONDITION

BASIS This event classification is intended to address such items as plane, helicopter, or barge crash into a plant vital area. In cases where structural damage has occurred it may be assumed that the area and associated equipment has been subjected to forces beyond design limits and thus damage may be assumed to have occurred to plant safety systems.

It should not be interpreted that a lengthy damage assessment is necessary prior to classification. Declaration of Alert with subsequent manning of support personnel will provide adequate personnel to make a detailed assessment. The Site Emergency Director should also consider any security aspects of the crash.

Escalation to higher emergency classification is based on system malfunction, fission product barrier degradation, radioactivity release, or Emergency Director Judgement event classification.

REFERENCES - Reg Guide 1.101 Rev. 3, (NUMARC-HA1 EXAMPLE 5)

TENNESSEE VALLEY AUTHORITY

BROWNS FERRY NUCLEAR PLANT

EMERGENCY PLAN IMPLEMENTING PROCEDURE

EPIP- 2

NOTIFICATION OF UNUSUAL EVENT

REVISION 23

PREPARED BY: T. W. CORNELIUS

PHONE: 2038

RESPONSIBLE ORGANIZATION: EMERGENCY PREPAREDNESS

APPROVED BY: GILBERT LITTLE

DATE: 07/22/2002

EFFECTIVE DATE: 07/30/2002

LEVEL OF USE: REFERENCE USE

QUALITY-RELATED

1.0 PURPOSE

1.1 Provide for timely notification of appropriate individuals or organizations when the Shift Manager has determined by EPIP-1 that an incident has occurred which is classified as a NOTIFICATION OF UNUSUAL EVENT.

1.2 Provide for periodic analysis of the current situation by the Shift Manger/Site Emergency Director (SED) to determine whether the NOTIFICATION OF UNUSUAL EVENT should be terminated, continued, or upgraded to a more serious classification

2.0 SCOPE

This procedure applies to emergency events that are classified as a Notification of Unusual Event by EPIP-1, Emergency Classification Procedure

3.0 INSTRUCTIONS

3.1 Notification of the Operations Duty Specialist (ODS)

Note: The ODS should be notified within 5 minutes after the emergency event is declared

Date: ___/___/___

3.1.1 Complete Attachment A (Initial Notification Form)

INITIALS TIME

3.1.2 If the NOUE has been declared due to the Security Emergency Action Level (EAL) 6 7-U, "A credible site-specific security threat notification", Then direct the Unit 1, Unit Operator to implement Attachment D, "Activation of the Emergency Paging System/Staffing of Emergency Responders".

INITIALS TIME

3.1.3 Notify the ODS and Provide the information from Attachment A

INITIALS TIME

Note: Utilize the direct ring-down ODS phone when making this notification or as applicable dial direct.

ODS Telephone Numbers
5-751-1700
5-751-2495

If the ODS cannot be reached within 10 minutes, Then contact the State of Alabama directly by requesting the Rad Health Duty Officer at:

Day Shift 8 a.m. - 5 p.m.
9-1-334-206-5391

Holidays-Weekends-Offshifts
9-1-334-242-4378

3.1.4 Fax a copy of Attachment A to the ODS for confirmation of information or state if contacted directly

INITIALS TIME

ODS Fax AL Rad Health
5-751-8620 9-1-334-206-5387

3.0 INSTRUCTIONS (CONTINUED)

3.1.5 **Receive** confirmation call from the ODS (to verify notification of the State of Alabama) (NA this step if the State was contacted directly). INITIALS TIME

3.2 NOTIFICATION OF SITE PERSONNEL

3.2.1 **Provide** the Unit 1, Unit Operator with a completed copy of Attachment A. INITIALS TIME

3.2.2 **Direct** the Unit 1, Unit Operator to make notifications from Attachment B (Unit 1, Unit Operator Notifications), utilizing information from Attachment A. INITIALS TIME

3.2.3 **Make** the following plant P.A. announcement: INITIALS TIME

THIS IS (NAME), SHIFT MANAGER. A NOTIFICATION OF UNUSUAL EVENT HAS BEEN DECLARED ON UNIT ____ I HAVE ASSUMED THE DUTIES OF SITE EMERGENCY DIRECTOR.

3.2.4 **Notify** the Plant Manager or alternate: INITIALS TIME

CAUTION: Do not initiate Assembly and Accountability if:
1. A severe weather condition exist or projected on-site, such as a Tornado.
2. A on-site security risk condition exists (Consult with Nuclear Security).

3.3 ACCOUNTABILITY

3.3.1 **If** the NOUE has been declared due to Security EAL, 6.7-U, and Nuclear Security recommends Accountability to establish the "Two Person (Line of Sight) Rule", **Then** implement EPIP-8, Appendix C, for Assembly and Accountability only. INITIALS TIME

3.0 INSTRUCTIONS (CONTINUED)

3.4 OFFSITE DOSE ASSESSMENT

3.4.1 Evaluate the need for offsite dose assessment.
(N/A STEP IF NOT APPLICABLE)

INITIALS

TIME

3.4.1.1 When offsite dose assessment is required obtain the information from the CECC when operational.

3.4.1.2 If the CECC is not operational, contact the TSC, when staffed or the RADCON Shift Supervisor and request the implementation of EGIP 14, for dose assessment

3.5 NOTIFICATION OF THE NRC

3.5.1 Notify the NRC immediately or within 1 hour and if requested by the NRC maintain an open and continuous communications channel.

INITIALS

TIME

Note. Utilize the Emergency Notification System (ENS) when making this notification. Dial the first number listed on the sticker affixed to the ENS telephone, by dialing 9-1-"The Ten Digit Number Listed on the ENS Telephones". If the number is busy, Then select in order, the alternate numbers until a connection is achieved. No access codes are required.

3.0 INSTRUCTIONS (CONTINUED)

3.6 PERIODIC EVALUATION OF THE EVENT

- 3.6.1 Continue to Evaluate the event by using EPIP-1 as conditions warrant.
- 3.6.2 If other EAL conditions exist indicating the current emergency classification or significant changes in plant conditions have occurred since the last update to the ODS, and the CECC is not staffed, Then, Complete the "Follow-Up" Notification Form (Attachment C), notify the ODS and provide the new information. Utilize the direct ring-down ODS phone when making this notification or as applicable dial direct.

ODS - 5-751-1700
5-751-2495

Note: If the ODS cannot be reached, Then contact the State of Alabama directly by requesting the Rad Health Duty Officer at:

Day Shift 8 a.m. - 5 p.m.
9-1-334-206-5391

Holidays-Weekends-Offshifts
9-1-334-242-4378

- 3.6.3 If the conditions warrant upgrading to a higher classification, Then initiate the appropriate EPIP.
- 3.6.4 If the conditions warrant termination of the classification, Then enter the Termination section of this procedure at step 3.7.
- 3.6.5 Re-enter this procedural section as conditions warrant at step 3.6.1 or until directed to exit this procedure by steps 3.6.3 or 3.6.4.

3.0 INSTRUCTIONS (CONTINUED)

3.7 TERMINATION OF THE EVENT

If the situation no longer exists terminate the event and notify the following:

Date: ___/___/___

3.7.1 Notify the ODS of the termination of the emergency or the state directly if the ODS cannot be contacted.

INITIALS TIME

3.7.2 Notify the NRC of the termination of the emergency.

INITIALS TIME

3.7.3 Notify the Plant Manager or Alternate of the termination of the emergency.

INITIALS TIME

3.7.4 Complete Attachment A by providing the time and date of termination.

INITIALS TIME

3.7.4 Notify the Unit 1, Unit Operator. Provide the Unit 1, Unit Operator with the termination time and date and direct the Unit 1, Unit Operator to notify the individuals contacted on Attachment B of the termination of the emergency.

INITIALS TIME

3.0 INSTRUCTIONS (CONTINUED)

3.8 CLOSURE OF THE NOTIFICATION OF UNUSUAL EVENT

3.8.1 Upon termination of the Notification of Unusual Event, the Shift Manager shall send the completed EPIP-2 and all attachments to Emergency Preparedness (EP).

INITIALS TIME

3.8.2 Upon receipt of completed EPIP-2 and all attachments, Emergency Preparedness shall forward documents for the purpose of documentation storage.

INITIALS TIME

4.0 ATTACHMENTS

Attachment A - Initial Notification Form Notification of Unusual Event

Attachment B - Unit 1, Unit Operator Notifications

Attachment C - Follow Up Information Form Notification of Unusual Event

Attachment D - Activation of the Emergency Paging System (EPS)/Staffing of Emergency Responders

ATTACHMENT A (Page 1 of 1)
INITIAL NOTIFICATION FORM
NOTIFICATION OF UNUSUAL EVENT

THIS IS AN ACTUAL EVENT

THIS IS AN EXERCISE

This is _____
NAME

A NOTIFICATION OF UNUSUAL EVENT has been declared at Browns Ferry affecting:

Unit 1

Unit 2

Unit 3

Common

Event Declared: _____ Time: _____ Date _____

EAL Designator: _____

Brief Description of the Event:

Radiological Conditions:

- No Abnormal Releases Offsite
- Airborne Release Offsite
- Liquid Release Offsite
- Release Information Not Known at this time

There is no Protective Action Recommendation at this time.

Ask, "Please repeat the information you have received to ensure accuracy."

ATTACHMENT B (Page 1 of 1)
UNIT 1; UNIT OPERATOR NOTIFICATIONS

Date: ___/___/___

Note: All notifications should be made utilizing the information located on EPIP 2, Attachment A

Received a completed copy of EPIP 2, Attachment A from the Site
Emergency Director.

INITIALS TIME

Personnel Notifications	Initial Notifications	Termination Notifications
Notify the Operations Manager (from the weekly duty list)	Initials Time	Initials Time
Notify the Vice President (from the weekly duty list)	Initials Time	Initials Time
Notify the REP manager (from the weekly duty list)	Initials Time	Initials Time
Notify the Nuclear Security Shift Supervisor Ext. 3150 or 2219	Initials Time	Initials Time
Notify the NRC Resident Ext. 2573, or 2572 or from the weekly duty list	Initials Time	Initials Time

ATTACHMENT C (Page 1 of 1) FOLLOW-UP INFORMATION FORM NOTIFICATION OF UNUSUAL EVENT

THIS IS A REAL EVENT THIS IS A DRILL

Note: This form is for conducting Follow-up Information only.

This is _____ at Browns Ferry Name

There has been a NOTIFICATION OF UNUSUAL EVENT declared at Browns Ferry affecting:

Unit 1 Unit 2 Unit 3 Common

The Reactor is Shutdown At Power

Plant Conditions are Stable Deteriorating

Follow-Up Information e.g., Key Events, Status Changes

Current Radiological Conditions are:

- No Abnormal Releases Offsite Airborne Release Offsite Liquid Release Offsite Release Information Not Known

Additional Rad information: e.g., release duration

There is no Protective Action Recommendation at this time.

Please repeat the information you have received to ensure accuracy

The time for this follow up is: Time: Date:

SIGNATURE:

ATTACHMENT D (Page 1 of 2)

ACTIVATION OF THE EMERGENCY PAGING SYSTEM (EPS) / STAFFING OF EMERGENCY RESPONDERS

- NOTES:** (1) The Emergency Paging System consists of a dedicated touch screen CRT. Activation of any screen feature requires the user place their fingertip within the boundary of the select button and leave it there for at least 1 second. The CRT Screen will normally display a large rectangle that indicates that the paging system is available but currently inactive.
- (2) If the EPS fails to operate, contact the SM/SED immediately. Request that the ODS be contacted to initiate the system from his location. If the system fails to operate from the ODS area, then utilize the Weekly Duty List and Call-Out List to manually staff the Emergency Responders, implementing this attachment at step 5.

1. **PRESS** the EPS CRT Screen once to activate the paging options

INITIALS	TIME
----------	------

2. **PRESS** the appropriate option

- PAGER TEST
- DRILL
- EMERGENCY
- ABORT

INITIALS	TIME
----------	------

3. **PRESS** the START Button to initiate the option or **ABORT** to deny the option request.

INITIALS	TIME
----------	------

4. **Monitor** the Paging System Terminal Display

INITIALS	TIME
----------	------

A. **IF...** A "NO" response is observed
 OR
 The position being paged has not responded within approximately 20 minutes

THEN... Utilize the Weekly Duty List and attempt to contact the position representative with available information. (No Fitness for Duty Question Required)

B. **IF...** The individual cannot be reached utilizing the Weekly Duty List

THEN .. Utilize the Call-Out List and attempt to contact an alternate position representative. (Fitness for Duty Question Required)

ATTACHMENT D (Page 2 of 2)
**ACTIVATION OF THE EMERGENCY PAGING SYSTEM (EPS) / STAFFING OF
EMERGENCY RESPONDERS**

- | | | | |
|----|---|-------------------|-------------------|
| 5. | Manual Call-Out (N/A step if EPS operates normally) | | |
| | | <u> </u> | <u> </u> |
| | | INITIALS | TIME |
| A. | Utilize the current Weekly Duty List and contact positions as listed. | | |
| B. | If a position can not be reached from the current Weekly Duty List, then refer to the Call-Out List as applicable to fill all vacant positions. | | |
| 6. | CONTINUE until all positions have been filled | | |
| | | <u> </u> | <u> </u> |
| | | INITIALS | TIME |

TENNESSEE VALLEY AUTHORITY

BROWNS FERRY NUCLEAR PLANT

EMERGENCY PLAN IMPLEMENTING PROCEDURE

EPIP-3

ALERT

REVISION 26

PREPARED BY: T. W. CORNELIUS

PHONE: 2038

RESPONSIBLE ORGANIZATION: EMERGENCY PREPAREDNESS

APPROVED BY: GILBERT LITTLE

DATE: 07/22/2002

EFFECTIVE DATE: 07/30/2002

LEVEL OF USE: REFERENCE USE

QUALITY-RELATED

REVISION LOG

Procedure Number: EPIP-3

Revision Number: 26

Pages Affected: 3,6,8,9

Description of Change:

- IC-30 This change is being conducted to incorporate the management of NRC Commitment changes as prescribed in the correspondence from site licensing RIMS R08000217713, and to human factor the notification and follow-up notification forms.
- Page 2 - change to step 3.2.1 involves human factoring the Notification Form Title.
 - Page 6 - changes involves removing the "NRC Commitment Brackets to step requiring the review of PORC and the human factoring of applicable steps.
 - Page 7 - change involves human factoring attachment title and modifying information to ensure consistency with NRC guidance.
 - Page 8 - change involves adding information regarding the support of the Unit 1 Operator in staffing the ERO.
 - Page 9 - Updated information for the Unit Operator to use during the ERO staffing process.
 - Page 10 - change involved adding a clarify statement concerning the appropriate use of the Follow-up Notification Form.
- IC-31 EPIP-3, revision 26 is being issued to incorporate changes regarding assembly and accountability actions. All actions to initiate the accountability and evacuation processes are now located in EPIP-8. The revision additionally standardizes telephone numbers, and PORC reviews. This revision also adds clarification for the actions taken by the Unit 1 Unit Operator during their staffing of the ERO process.
- Page 3 - added a statement to the caution information regarding security threat. Clarified steps 3.4.1 and 3.4.2 to implement EPIP-8 regarding actions to be taken for assembly/accountability and evacuation.
 - Page 6 - standardize Alert procedure closure information.
 - Page 8,9 - Clarify actions taken by the Unit 1 Unit Operator during the notification attachment.

1.0 PURPOSE

1.1 Provide for timely notification of appropriate individuals or organizations when the Shift Manager/Site Emergency Director (SED) has determined by EPIP-1 that an incident has occurred which is classified as an ALERT.

1.2 Provide for periodic evaluation of the current situation by the Shift Manager/SED to determine whether the ALERT should be terminated, continued, or upgraded to a more serious classification

2.0 SCOPE

This procedure applies to emergency events that are classified as Alert by EPIP-1, Emergency Classification Procedure.

3.0 INSTRUCTIONS

Date: ___/___/___

3.1 If all Emergency Centers **ARE STAFFED**, Then notify the following that an **ALERT** Emergency Classification has been issued and EPIP 3 is being implemented, and continue in this procedure at Step 3.4. If all Emergency Centers **ARE NOT STAFFED**, Then N/A this step and continue in this procedure.

CECC
TSC
OSC

Control Rooms
Plant PA Announcement

INITIALS TIME

This is NAME, Site Emergency Director, an Alert has been declared at BFN, we are currently implementing EPIP-3 Standby for further updates.

3.2 Notification of the Operations Duty Specialist (ODS) & Emergency Responders

Note: The ODS should be notified within 5 minutes after the emergency event is declared.

3.2.1 Complete Attachment A (Initial Notification Form).

INITIALS TIME

3.2.2 Direct the Unit 1, Unit Operator to make notifications from Attachment B (Unit 1, Unit Operator Notifications)

INITIALS TIME

3.2.3 Notify the ODS and Provide the information from Attachment A.

INITIALS TIME

Note: Utilize the direct ring-down ODS phone when making this notification or as applicable dial direct.

ODS Telephone Numbers - 5-751-1700, or 2495

If the ODS cannot be reached within 10 minutes, Then contact the State of Alabama directly by requesting the Rad Health Duty Officer at:

Day Shift 8 a.m. - 5 p.m. - Holidays-Weekends-Off-Shifts
9-1-334-206-5391 9-1-334-242-4378

3.2.4 Fax a copy of Attachment A to the ODS for confirmation of information or state if the state was contacted directly.

INITIALS TIME

ODS Fax AL Rad Health Fax
5-751-8620 9-1-334-206-5387

3.2.5 Receive confirmation call from the ODS (to verify notification of the State of Alabama)(NA this step, if the state was contacted directly).

INITIALS TIME

3.0 INSTRUCTIONS (CONTINUED)

3.3 NOTIFICATION OF SITE PERSONNEL

3.3.1 Make the following plant P.A. announcement:

INITIALS

TIME

THIS IS (NAME), SHIFT MANAGER. A ALERT
HAS BEEN DECLARED ON UNIT ____ . I HAVE
ASSUMED THE DUTIES OF SITE EMERGENCY
DIRECTOR. REPORT TO YOUR ASSIGNED
EMERGENCY RESPONSE FACILITY AT THIS
TIME.

CAUTION: Do not initiate Assembly and Accountability if.

1. A severe weather condition exist or projected on-site, such as a Tornado
2. An on-site security risk condition exists (Consult with Nuclear Security)

3.4 ACCOUNTABILITY

3.4.1 If the emergency situation warrants an Assembly,
Accountability, Then implement EPIP-8, Appendix C,
concurrently with this procedure.
(N/A STEP IF NOT APPLICABLE)

INITIALS

TIME

3.4.2 If the emergency situation does not warrant an Assembly,
Accountability at this time, Continue to assess the
situation, implementing EPIP-8 when necessary.

3.5 OFFSITE DOSE ASSESSMENT

3.5.1 Evaluate the need for offsite dose assessment.
(N/A STEP IF NOT APPLICABLE)

INITIALS

TIME

3.5.1.1 When offsite dose assessment is required obtain
the information from the CECC when
operational.

3.5.1.2 If the CECC is not operational, contact the TSC,
when staffed or the RADCON Shift Supervisor
and request the implementation of EPIP 14, for
dose assessment.

3.0 INSTRUCTIONS (CONTINUED)

3.6 NOTIFICATION OF THE NRC

3.6.1 **Notify** the NRC immediately or within 1 hour and if requested by the NRC maintain an open and continuous communications channel.

INITIALS	TIME

Note: Utilize the Emergency Notification System (ENS) when making this notification. Dial the first number listed on the sticker affixed to the ENS telephone, by dialing 9-1-"The Ten Digit Number Listed on the ENS Telephones". **If** the number is busy, **Then** select in order, the alternate numbers until a connection is achieved. No access codes are required.

3.0 INSTRUCTIONS (CONTINUED)**3.7 PERIODIC EVALUATION OF THE EVENT**

3.7.1 Continue to **Evaluate** the event using EPIP-1 as conditions warrant.

3.7.2 **If** plant conditions warrant the need for follow up information, **Complete** the Follow Up Notification Form, Attachment C.

Note: Conditions that warrant this evaluation are as a minimum when other EAL conditions exist indicating the current emergency classification or significant changes in plant conditions have occurred.

3.7.3 **If** the CECC is not staffed, **Then** notify the ODS and provide follow up information from the completed Attachment C form. Utilize the direct ring-down ODS phone when making this notification or as applicable dial direct.

ODS - 5-751-2495, 1700

Note: **If** the ODS cannot be reached, **Then** contact the State of Alabama directly by requesting the Rad Health Duty Officer at:

Day Shift 8 a.m. - 5 p.m.
9-1-334-206-5391

Holidays-Weekends-Offshifts
9-1-334-242-4378

3.7.4 **If** the conditions warrant upgrading to a higher classification, **Then** initiate the appropriate EPIP.

3.7.5 **If** the conditions warrants termination of the classifications, **Then** enter EPIP-16, Termination and Recovery Procedure.

3.7.6 **After** the evaluation has been completed, **if staffed**, **Notify** the following of the status:

- CECC
- NRC (ENS)
- TSC
- OSC
- CONTROL ROOMS
- PLANT PA ANNOUNCEMENT

3.7.7 **Re-enter** this procedural section as conditions warrant at step 3.7.1 or until directed to exit this procedure by steps 3.7.4 or 3.7.5.

3.0 INSTRUCTIONS (CONTINUED)

3.8 CLOSURE OF THE ALERT

3.8.1 Upon termination of the Notification of Alert, the Shift Manager shall send the completed EPIP-3 and all attachments to Emergency Preparedness (EP).

INITIALS

TIME

3.8.2 Upon receipt of completed EPIP-3 and all attachments, Emergency Preparedness shall forward documents for the purpose of documentation storage.

INITIALS

TIME

4.0 ATTACHMENTS

Attachment A - Initial Notification Form Alert

Attachment B - Unit 1, Unit Operator Notifications

Attachment C - Follow Up Information Form Alert

ATTACHMENT A (Page 1 of 1)
INITIAL NOTIFICATION FORM
ALERT

THIS IS A REAL EVENT

THIS IS A DRILL

This is _____

NAME

An **ALERT** has been declared at Browns Ferry affecting:

Unit 1

Unit 2

Unit 3

Common

Event Declared: _____

Time: _____

Date: _____

EAL Designator: _____

Brief Description of the Event:

Radiological Conditions:

No Abnormal Releases Offsite

Airborne Release Offsite

Liquid Release Offsite

Release Information Not Known at this time

There is no Protective Action Recommendation at this time.

Ask "Please repeat the information you have received to ensure accuracy."

ATTACHMENT B (Page 1 of 2)
UNIT 1, UNIT OPERATOR NOTIFICATIONS

Date: ___/___/___

- NOTES:** (1) The Emergency Paging System (EPS) consists of a dedicated touch screen CRT. Activation of any screen feature requires the user place their fingertip within the boundary of the select button and leave it there for at least 1 second. The CRT Screen will normally display a large rectangle that indicates that the paging system is available but currently inactive.
- (2) If the EPS fails to operate, contact the SM/SED immediately. Request that the ODS be contacted to initiate the system from his location. If the system fails to operate from the ODS area, then utilize the Weekly Duty List and Call-Out List to manually staff the Emergency Responders, implementing this attachment at step E.

1. Activation of the Emergency Paging System (EPS).

- | | | | |
|----|---|-------------------|---------------|
| A. | PRESS the EPS CRT Screen once to activate the paging options. | _____
INITIALS | _____
TIME |
| B. | PRESS the appropriate option | _____
INITIALS | _____
TIME |
| | <ul style="list-style-type: none"> • PAGER TEST • DRILL • EMERGENCY • ABORT | | |
| C. | PRESS the START Button to initiate the option or ABORT to deny the option request. | _____
INITIALS | _____
TIME |
| D. | MONITOR the Paging System Terminal Display | _____
INITIALS | _____
TIME |
| | 1. IF... A "NO" response is observed
OR
The position being paged has not responded within approximately 20 minutes

THEN... Utilize the Weekly Duty List and attempt to contact the position representative with available information. (No Fitness for Duty Question Required) | | |
| | 2. IF... The individual cannot be reached utilizing the Weekly Duty List

THEN... Utilize the Call-Out List and attempt to contact an alternate position representative: (Fitness for Duty Question Required) | | |

ATTACHMENT B (Page 2 of 2)
UNIT 1, UNIT OPERATOR NOTIFICATIONS

Date: ___/___/___

E. Manual Call-Out (N/A step if EPS operates normally)

- | | INITIALS | TIME |
|--|----------|------|
| 1. Utilize the current Weekly Duty List and contact positions as listed. | | |
| 2. If a position can not be reached from the current Weekly Duty list, then refer to the Call-out List as applicable to fill all vacant positions. | | |

F. CONTINUE until all positions have been filled.

2. Notify the Unit Supervisors on shift.

INITIALS	TIME
INITIALS	TIME

3. Notify Nuclear Security Shift Supervisor and state "AN ALERT HAS BEEN DECLARED" and direct to activate EPIP-11, Security and Access Control.

INITIALS	TIME

- Plant Extension 3150 or 2219

4. Notify the Chemistry Lab Supervisor and state "AN ALERT HAS BEEN DECLARED" and direct to implement 2/3-TI-331, Post Accident Sampling Procedure and CI-900 series, Analysis Procedures.

INITIALS	TIME

- Plant Extension 2367 or 2368

5. Notify the RADCON Shift Supervisor and state "AN ALERT HAS BEEN DECLARED" and direct to activate EPIP-14, Radiological Control Procedure.

INITIALS	TIME

- Plant Extension 7865 or 3104

6. Notify the "On-Call" NRC Resident and state "AN ALERT HAS BEEN DECLARED," per BFN-EPIP-03.

INITIALS	TIME

- Plant Extension 2572 [Secretary] or from weekly duty list

ATTACHMENT C (Page 1 of 1)
FOLLOW-UP INFORMATION FORM
ALERT

THIS IS A REAL EVENT THIS IS A DRILL

Note: This form is for conducting Follow-up Information only.

This is _____ at Browns Ferry
Name

There has been a Alert declared at Browns Ferry affecting:

Unit 1 Unit 2 Unit 3 Common

The Reactor is Shutdown At Power

Plant Conditions are Stable Deteriorating

“Follow-Up” Information (e.g., Key Events, Status Changes)

Current Radiological Conditions are:

- No Abnormal Releases Offsite
- Airborne Release Offsite
- Liquid Release Offsite
- Release Information Not Known

Additional Rad information: (e.g., release duration)

There is no Protective Action Recommendation at this time.

Please repeat the information you have received to ensure accuracy.

The time for this follow up is: Time: _____ Date: _____

SIGNATURE: _____

TENNESSEE VALLEY AUTHORITY

BROWNS FERRY NUCLEAR PLANT

EMERGENCY PLAN IMPLEMENTING PROCEDURE

EPIP-4

SITE AREA EMERGENCY

REVISION 25

PREPARED BY: T. W. CORNELIUS

PHONE: 2038

RESPONSIBLE ORGANIZATION: EMERGENCY PREPAREDNESS

APPROVED BY: GILBERT LITTLE

DATE: 07/22/2002

EFFECTIVE DATE: 07/30/2002

LEVEL OF USE: REFERENCE USE

QUALITY-RELATED

REVISION LOG

Procedure Number: EPIP-4

Revision Number: 25

Pages Affected: ALL

Description of Change:

- IC-31 This change is being conducted to incorporate a manual method of evacuating on-site, non-emergency response personnel during emergency situations. In addition changes to the procedure are being conducted to incorporate the management of NRC Commitment changes as prescribed in the correspondence from site licensing RIMS R08000217713, and to human factor the notification and follow-up notification forms.
- Page 2 - change to step 3.2.1 involves human factoring the Notification Form Title
 - Page 3 - changes to steps 3.4.1 - 3.4.5 involves information regarding steps for the SED to take when conducting an Accountably/Assembly and Evacuation
 - Page 6 - changes involves removing the "NRC Commitment Brackets to step requiring the review of PORC and the human factoring of applicable steps.
 - Page 7 - change involves human factoring attachment title.
 - Page 8 - change involves human factoring attachment title and modifying information to ensure consistency with NRC guidance.
 - Page 9 - change involves adding information for Unit 1 Operator regarding ERO staffing support.
 - Page 10 - updated information for the Unit Operator to use during the ERO staffing process.
 - Page 11 - change involved adding a clarify statement concerning the appropriate use of the Follow-up Notification Form.
- IC-32 EPIP-4, revision 25 is being issued to incorporate changes regarding assembly and accountability actions. All actions to initiate the accountability and evacuation processes are now located in EPIP-8. The revision additionally standardizes telephone numbers, and PORC reviews. This revision also adds clarification for the actions taken by the Unit 1 Unit Operator during their staffing of the ERO process.
- Page 3 - added a statement to the caution information regarding security threat. Clarified steps 3.4.1 and 3.4.2 to implement EPIP-8 regarding actions to be taken for assembly/accountability and evacuation.
 - Page 6 - standardize Site Area Emergency procedure closure information
 - Page 8,9 - Clarify actions taken by the Unit 1 Unit Operator during the notification attachment.

1.0 PURPOSE

- 1.1 Provide for timely notification of appropriate individuals or organizations when the Shift Manager/Site Emergency Director (SED) has determined by EPIP-1 that an incident has occurred which is classified as a SITE AREA EMERGENCY (SAE).
- 1.2 Provide for periodic evaluation of the current situation by the Shift Manager/SED to determine whether the SAE should be terminated, continued, or upgraded to a more serious classification.

2.0 SCOPE

This procedure applies to emergency events that are classified as Site Area Emergency by EPIP-1, Emergency Classification Procedure.

3.0 INSTRUCTIONS

Date: ___/___/___

3.1 If all Emergency Centers **ARE STAFFED**, Then notify the following that a **SITE AREA EMERGENCY** Emergency Classification has been issued and EPIP 4 is being implemented, and continue in this procedure at Step 3.4. If all Emergency Centers **ARE NOT STAFFED**, Then N/A this step and continue in this procedure.

CECC
TSC
OSC

Control Rooms
Plant PA Announcement

INITIALS TIME

This is NAME, Site Emergency Director, an SAE has been declared at BFN, we are currently implementing EPIP-4. Standby for further updates.

3.2 Notification of the Operations Duty Specialist (ODS) & Emergency Responders

Note: The ODS should be notified within 5 minutes after the emergency event is declared.

3.2.1 Complete Attachment A (Initial Notification Form).

INITIALS TIME

3.2.2 Direct the Unit 1, Unit Operator to make notifications from Attachment B (Unit 1, Unit Operator Notification)

INITIALS TIME

3.2.3 Notify the ODS and Provide the information from Attachment A.

INITIALS TIME

Note: Utilize the direct ring-down ODS phone when making this notification or as applicable dial direct.

ODS Telephone Numbers
5-751-1700, 2495

If the ODS cannot be reached within 10 minutes, Then contact the State of Alabama directly by requesting the Rad Health Duty Officer at:

Day Shift 8 a.m. - 5 p.m. - Holidays-Weekends-Offshifts
9-1-334-206-5391 9-1-334-242-4378

3.2.4 Fax a copy of Attachment A to the ODS for confirmation of information or if the state is contacted directly.

INITIALS TIME

ODS Fax AL Rad Health Fax
5-751-8620 9-1-334-206-5387

3.2.5 Receive confirmation call from the ODS (to verify notification of the State of Alabama)(NA this step, if the state was contacted directly).

INITIALS TIME

3.0 INSTRUCTIONS (CONTINUED)

3.3 NOTIFICATION OF SITE PERSONNEL

3.3.1 Make the following plant P.A. announcement:

INITIALS TIME

THIS IS (*NAME*), SHIFT MANAGER. A SITE AREA EMERGENCY HAS BEEN DECLARED ON UNIT _____. I HAVE ASSUMED THE DUTIES OF SITE EMERGENCY DIRECTOR. REPORT TO YOUR ASSIGNED EMERGENCY RESPONSE FACILITY AT THIS TIME.

CAUTION: Do not initiate Assembly and Accountability if:

1. A severe weather condition exist or projected on-site, such as a Tornado.
2. A on-site security risk condition exists (Consult with Nuclear Security).

3.4 ACCOUNTABILITY AND EVACUATION OF NON-EMERGENCY

RESPONDERS

3.4.1 If Assembly and Accountability has not been conducted,

INITIALS TIME

Then, implement EPIP-8, Appendix C concurrently with this procedure. If Accountability has been conducted, Then N/A this step and continue in this procedure at step 3.4.2.

3.4.2 If an order to evacuate non-emergency responders has not be issued, Then upon completion of Assembly and Accountability, initiate the order to evacuate non-emergency responders, through the implementation of EPIP-8, Appendix F, concurrently with this procedure. If the order to evacuate non-emergency responders has been conducted, Then continue in this procedure at step 3.5.1.

INITIALS TIME

3.0 INSTRUCTIONS (CONTINUED)

3.5 DOSE ASSESSMENT

3.5.1 Evaluate the need for offsite dose assessment.
(N/A STEP IF NOT APPLICABLE)

INITIALS TIME

3.5.1.1 **When** offsite dose assessment is required, obtain the information from the CECC when operational.

3.5.1.2 **If** the CECC is not operational, contact the TSC, when staffed, or the RADCON Shift Supervisor and request the implementation of EPIP 14, for dose assessment.

3.6 NOTIFICATION OF THE NRC

3.6.1 **Notify** the NRC immediately or within 1 hour, and if requested by the NRC maintain an open and continuous communications channel.

INITIALS TIME

Note: **Utilize** the Emergency Notification System (ENS) when making this notification. Dial the first number listed on the sticker affixed to the ENS telephone, by dialing 9-1-**"The Ten Digit Number Listed on the ENS Telephones"**. **If** the number is busy, **Then** select in order, the alternate numbers until a connection is achieved. No access codes are required.

3.0 INSTRUCTIONS (CONTINUED)

3.7 PERIODIC EVALUATION OF THE EVENT

3.7.1 Continue to Evaluate the event using EPIP-1 as conditions warrant.

3.7.2 If plant conditions warrant the need for follow up information, Complete the Follow Up Notification Form, Attachment C.

Note: Conditions that warrant this evaluation are as a minimum when other EAL conditions exist indicating the current emergency classification or significant changes in plant conditions have occurred.

3.7.3 If the CECC is not staffed, Then notify the ODS and provide follow up information from the completed Attachment C form. Utilize the direct ring-down ODS phone when making this notification or as applicable dial direct.

ODS - 5-751-2495, 1700

Note: If the ODS cannot be reached, Then contact the State of Alabama directly by requesting the Rad Health Duty Officer at:

Day Shift 8 a.m. - 5 p.m.
9-1-334-206-5391

Holidays-Weekends-Offshifts
9-1-334-242-4378

3.7.4 If the conditions warrants upgrading to a higher classification, Then initiate EPIP-5, General Emergency.

3.7.5 If the conditions warrant termination of the classification, Then enter EPIP-16, Termination and Recovery Procedure.

3.0 INSTRUCTIONS (CONTINUED)

3.7 PERIODIC EVALUATION OF THE EVENT (CONTINUED)

3.7.6 After the evaluation has been completed, if staffed, Notify the following of the status:

- CECC
- NRC (ENS)
- TSC
- OSC
- CONTROL ROOMS
- PLANT PA ANNOUNCEMENT

3.7.7 Re-enter this procedural section as conditions warrant at step 3.7.1 or until directed to exit this procedure by steps 3.7.4 or 3.7.5.

3.8 CLOSURE OF THE SITE AREA EMERGENCY

3.8.1 Upon termination of the Notification of Site Area Emergency, the Shift Manager shall send the completed EPIP-4 and all attachments to Emergency Preparedness (EP).

INITIALS	TIME
----------	------

3.8.2 Upon receipt of completed EPIP-4 and all attachments, Emergency Preparedness shall forward documents for the purpose of documentation storage.

INITIALS	TIME
----------	------

4.0 ATTACHMENTS

Attachment A - Initial Notification Form Site Area Emergency

Attachment B - Unit 1, Unit Operator Notifications

Attachment C - Follow Up Information Form Site Area Emergency

ATTACHMENT A (Page 1 of 1)

INITIAL NOTIFICATION FORM SITE AREA EMERGENCY

THIS IS A REAL EVENT

THIS IS A DRILL

This is _____

NAME

A SITE AREA EMERGENCY has been declared at Browns Ferry affecting:

Unit 1

Unit 2

Unit 3

Common

Event Declared: Time: _____ Date: _____

EAL Designator: _____

Brief Description of the Event:

Radiological Conditions:

No Abnormal Releases Offsite

Airborne Release Offsite

Liquid Release Offsite

Release Information Not Known at this time

There is no Protective Action Recommendation at this time.

Meteorological conditions are:

Wind Speed: _____ m.p.h

Wind Direction From: _____ degrees

Ask "Please repeat the information you have received to ensure accuracy."

ATTACHMENT B (Page 1 of 2)
UNIT 1, UNIT OPERATOR NOTIFICATIONS

Date: ___/___/___

- NOTES:** (1) The Emergency Paging System consists of a dedicated touch screen CRT. Activation of any screen feature requires the user place their fingertip within the boundary of the select button and leave it there for at least 1 second. The CRT Screen will normally display a large rectangle that indicates that the paging system is available but currently inactive.
- (2) If the EPS fails to operate, contact the SM/SED immediately. Request that the ODS be contacted to initiate the system from his location. If the system fails to operate from the ODS area, then utilize the Weekly Duty List and Call-Out List to manually staff the Emergency Responders, implementing this attachment at step E.

1. Activation of the Emergency Paging System (EPS).

A. **PRESS** the EPS CRT Screen once to activate the paging options. _____
INITIALS TIME

B. **PRESS** the appropriate option _____
INITIALS TIME

- PAGER TEST
- DRILL
- EMERGENCY
- ABORT

C. **PRESS** the START Button to initiate the option or **ABORT** to deny the option request. _____
INITIALS TIME

D. **MONITOR** the Paging System Terminal Display _____
INITIALS TIME

1. **IF...** A "NO" response is observed
OR
The position being paged has not responded within approximately 20 minutes.

THEN... Utilize the Weekly Duty List and attempt to contact the position representative with available information. (No Fitness for Duty Question Required)

2. **IF...** The individual cannot be reached utilizing the Weekly Duty List

THEN... Utilize the Call-Out List and attempt to contact an alternate position representative. (Fitness for Duty Question Required)

ATTACHMENT B (Page 2 of 2)
UNIT 1, UNIT OPERATOR NOTIFICATIONS

Date: ___/___/___

E. Manual Call-Out (N/A step if EPS operates normally)

- | | INITIALS | TIME |
|--|----------|------|
| 1. Utilize the current Weekly Duty List and contact positions as listed. | | |
| 2. If a position can not be reached from the current Weekly Duty list, then refer to the Call-out List as applicable to fill all vacant positions. | | |

F. CONTINUE until all positions have been filled.

- | | INITIALS | TIME |
|--|----------|------|
| 2. <u>Notify</u> the Unit Supervisors on shift. | | |
| 3. <u>Notify</u> Nuclear Security Shift Supervisor and state "AN SITE AREA EMERGENCY HAS BEEN DECLARED" and direct to activate EPIP-11, Security and Access Control. | | |

- Plant Extension 3150 or 2219

- | | INITIALS | TIME |
|--|----------|------|
| 4. <u>Notify</u> the Chemistry Lab Supervisor and state "AN SITE AREA EMERGENCY HAS BEEN DECLARED" and direct to implement 2/3-TI-331, Post Accident Sampling Procedure and CI-900 series, Analysis Procedures | | |

- Plant Extension 2367 or 2368

- | | INITIALS | TIME |
|---|----------|------|
| 5. <u>Notify</u> the RADCON Shift Supervisor and state "AN SITE AREA EMERGENCY HAS BEEN DECLARED" and direct to activate EPIP-14, Radiological Control Procedure. | | |

- Plant Extension 7865 or 3104

- | | INITIALS | TIME |
|--|----------|------|
| 6. <u>Notify</u> the "On-Call" NRC Resident and state "AN SITE AREA EMERGENCY HAS BEEN DECLARED" | | |

- Plant Extension 2572 [Secretary] or from weekly duty list

ATTACHMENT C (Page 1 of 1)
FOLLOW-UP INFORMATION FORM
SITE AREA EMERGENCY

THIS IS A REAL EVENT THIS IS A DRILL

Note: This form is for conducting Follow-up Information only.

This is _____ at Browns Ferry.
Name

There has been a Site Area Emergency declared at Browns Ferry affecting:

Unit 1 Unit 2 Unit 3 Common

The Reactor is Shutdown At Power

Plant Conditions are Stable Deteriorating

“Follow-Up” Information (e.g., Key Events, Status Changes)

Current Radiological Conditions are:

- No Abnormal Releases Offsite
- Airborne Release Offsite
- Liquid Release Offsite
- Release Information Not Known

Additional Rad information: (e.g., release duration)

There is no Protective Action Recommendation at this time.

Please repeat the information you have received to ensure accuracy.

The time for this follow up is: Time: _____ Date: _____

SIGNATURE: _____

TENNESSEE VALLEY AUTHORITY

BROWNS FERRY NUCLEAR PLANT

EMERGENCY PLAN IMPLEMENTING PROCEDURE

EPIP-5

GENERAL EMERGENCY

REVISION 30

PREPARED BY: T. W. CORNELIUS PHONE: 2038

RESPONSIBLE ORGANIZATION: EMERGENCY PREPAREDNESS

APPROVED BY: GILBERT LITTLE

DATE: 07/22/2002

EFFECTIVE DATE: 07/30/2002

LEVEL OF USE: REFERENCE USE

QUALITY-RELATED

REVISION LOG

Procedure Number: EPIP-5

Revision Number: 30

Pages Affected: All

Description of Change:

- IC-37 This change is being conducted to incorporate a manual method of evacuating on-site, non-emergency response personnel during emergency situations. In addition changes to the procedure are being conducted to incorporate the management of NRC Commitment changes as prescribed in the correspondence from site licensing RIMS R08000217713, and to human factor the notification and follow-up notification forms.
- Page 2 - change to step 3.2.1 involves human factoring the Notification Form Title and revised telephone for Morgan County.
 - Page 3/4 - changes to steps 3.4.1 - 3.4.5 involves information regarding steps for the SED to take when conducting an Accountably/Assembly and Evacuation.
 - Page 6 - changes involves removing the "NRC Commitment Brackets to step requiring the review of PORC and the human factoring of applicable steps.
 - Page 7 - change involves human factoring attachment title.
 - Page 8 - change involves human factoring attachment title.
 - Page 9 - change involves adding information for Unit 1 Operator regarding ERO staffing support.
 - Page 10 - revised to update information supporting Unit 1 Operator actions regarding ERO staffing support.
 - Page 11 - revised Protective Action Recommendation Flowchart.
 - Page 12 - change involved adding a clarify statement concerning the appropriate use of the Follow-up Notification Form.
- IC-38 EPIP-4, revision 25 is being issued to incorporate changes regarding assembly and accountability actions. All actions to initiate the accountability and evacuation processes are now located in EPIP-8. The revision additionally standardizes telephone numbers, and PORC reviews. This revision also adds clarification for the actions taken by the Unit 1 Unit Operator during their staffing of the ERO process.
- Page 3 - added a statement to the caution information regarding security threat. Clarified steps 3.4.1 and 3.4.2 to implement EPIP-8 regarding actions to be taken for assembly/accountability and evacuation.
 - Page 6 - standardize Site Area Emergency procedure closure information.
 - Page 8,9 - Clarify actions taken by the Unit 1 Unit Operator during the notification attachment.

1.0 PURPOSE

- 1.1 Provide for timely notification of appropriate individuals or organizations when the Shift Manager/Site Emergency Director (SED) has determined by EPIP-1 that an incident has occurred which is classified as a GENERAL EMERGENCY (GE).
- 1.2 Provide for periodic evaluation of the current situation by the Shift Manager/SED to determine whether the GE should be terminated, or continued.

2.0 SCOPE

This procedure applies to emergency events that are classified as General Emergency by EPIP-1, Emergency Classification Procedure.

3.0 INSTRUCTIONS

Date: ___/___/___

3.1 If all Emergency Centers **ARE STAFFED**, Then notify the following that a **GENERAL EMERGENCY** Emergency Classification has been issued and EPIP-5 is being implemented, and continue in this procedure at Step 3.4. If all Emergency Centers **ARE NOT STAFFED**, Then N/A this step and continue in this procedure.

CECC
TSC
OSC

Control Rooms
Plant PA Announcement

INITIALS TIME

This is NAME, Site Emergency Director, an GE has been declared at BFN, we are currently implementing EPIP-5. Standby for further updates.

3.2 Notification of the Operations Duty Specialist (ODS) & Emergency Responders

Note: The ODS **should** be notified within 5 minutes after the emergency event is declared.

3.2.1 **Complete** Attachment A (Initial Notification Form).

INITIALS TIME

3.2.2 Direct the Unit 1, Unit Operator to make notifications from Attachment B (Unit 1, Unit Operator Notifications)

INITIALS TIME

3.2.3 **Notify** the ODS and **Provide** the information from Attachment A.

INITIALS TIME

Note: Utilize the direct ring-down ODS phone when making this notification or as applicable dial direct.

ODS Telephone Numbers
5-751-1700, 2495

If the ODS cannot be reached within 10 minutes, **Then** contact the following and Provide the information from Attachment A:

1. Limestone County: 9-232-0111

INITIALS TIME

2. Morgan County: 9-1-256-432-2143

INITIALS TIME

3. Lawrence County: 9-1-256-974-7641

INITIALS TIME

4. Lauderdale County: 9-1-256-760-9117

INITIALS TIME

5. State of Alabama Rad Health Duty Officer:

INITIALS TIME

Day Shift 8 a.m. - 5 p.m.

9-1-334-206-5391

Holidays-Weekends-Offshifts

9-1-334-242-4378

3.0 INSTRUCTIONS (CONTINUED)

3.2.4 Fax a copy of Attachment A to the ODS for confirmation of information or the state if contacted directly. INITIALS TIME

ODS Fax
5-751-8620

AL Rad Health
9-1-334-206-5387

3.2.5 Receive confirmation call from the ODS (to verify notification of the State of Alabama), (N/A this step if the State was contacted directly). INITIALS TIME

3.3 NOTIFICATION OF SITE PERSONNEL

3.3.1 Make the following plant P.A. announcement: INITIALS TIME

THIS IS (NAME), SHIFT MANAGER. A GENERAL EMERGENCY HAS BEEN DECLARED ON UNIT ____ . I HAVE ASSUMED THE DUTIES OF SITE EMERGENCY DIRECTOR. REPORT TO YOUR ASSIGNED EMERGENCY RESPONSE FACILITY AT THIS TIME.

CAUTION: Do not initiate Assembly and Accountability if:

1. A severe weather condition exist or projected on-site, such as a Tornado.
2. An on-site security risk condition exists (Consult with Nuclear Security)

3.4 ACCOUNTABILITY AND EVACUATION OF NON-EMERGENCY RESPONDERS

3.4.1 If Assembly and Accountability has not been conducted, Then, implement EPIP-8, Appendix C concurrently with this procedure. If Accountability has been conducted, Then, continue in this procedure at step 3.4.2. INITIALS TIME

3.4.2 If an order to evacuate non-emergency responders has not be issued, Then upon completion of Assembly and Accountability, Initiate the order to evacuate non-emergency responders, through the implementation of EPIP-8, Appendix F, concurrently with this procedure. If the order to evacuate non-emergency responders has been conducted, Then continue in this procedure at step 3.5.1. INITIALS TIME

3.0 INSTRUCTIONS (CONTINUED)

3.5 DOSE ASSESSMENT

3.5.1 Evaluate the need for offsite dose assessment.
(N/A STEP IF NOT APPLICABLE)

INITIALS TIME

3.5.1.1 When offsite dose assessment is required Obtain the information from the CECC when operational.

3.5.1.2 If the CECC is not operational, Contact the TSC, when staffed or the RADCON Shift Supervisor and Request the implementation of EPIP 14, for dose assessment.

3.6 NOTIFICATION OF THE NRC

3.6.1 Notify the NRC immediately or within 1 hour and if requested by the NRC maintain an open and continuous communications channel.

INITIALS TIME

Note: Utilize the Emergency Notification System (ENS) when making this notification. Dial the first number listed on the sticker affixed to the ENS telephone, by dialing 9-1-
"The Ten Digit Number Listed on the ENS Telephones".
If the number is busy, Then select in order, the alternate numbers until a connection is achieved. No access codes are required.

3.7 PROTECTIVE ACTION RECOMMENDATION

3.7.1 If the CECC is not staffed, Then make a Protective Action Recommendation (PAR) using Attachment C.
(This PAR shall be made only by the SED.)
(N/A STEP IF NOT APPLICABLE)

INITIALS TIME

3.0 INSTRUCTIONS (CONTINUED)

3.8 PERIODIC EVALUATION OF THE EVENT

3.8.1 Continue to Evaluate the event using EPIP-1 as conditions warrant.

3.8.2 If plant conditions warrant the need for follow-up information, Complete the Follow-Up Notification Form, Attachment D.

Note: Conditions that warrant this evaluation are as a minimum when other EAL conditions exist indicating the current emergency classification or significant changes in plant conditions have occurred.

3.8.3 If the CECC is not staffed, Then notify the ODS and provide follow up information from the completed Attachment D form. Utilize the direct ring-down ODS phone when making this notification or as applicable dial direct.

ODS - 5-751-2495, 1700

Note: If the ODS cannot be reached, Then contact the State of Alabama directly by requesting the Rad Health Duty Officer at:

Day Shift 8 a.m. - 5 p.m. Holidays-Weekends-Offshifts
9-1-334-206-5391 9-1-334-242-4378

3.8.4 If the conditions warrant termination of the classification, Then enter EPIP-16, Termination and Recovery Procedure.

3.8.5 After the evaluation has been completed, if staffed, Notify the following of the status:

- CECC
- NRC (ENS)
- TSC
- OSC
- CONTROL ROOMS
- PLANT PA ANNOUNCEMENT

3.8.6 Re-enter this procedural section as conditions warrant at step 3.8.1 or until directed to exit this procedure by steps 3.8.4.

3.0 INSTRUCTIONS (CONTINUED)

3.9 CLOSURE OF THE GENERAL EMERGENCY

3.9.1 Upon termination of the Notification of General Emergency, the Shift Manager shall send the completed EPIP-5 and all attachments to Emergency Preparedness (EP).

INITIALS TIME

3.9.2 Upon receipt of completed EPIP-5 and all attachments, Emergency Preparedness shall forward documents for the purpose of documentation storage.

INITIALS TIME

4.0 ATTACHMENTS

Attachment A - Initial Notification Form General Emergency

Attachment B - Unit 1, Unit Operator Notifications

Attachment C - Protective Action Recommendations

Attachment D - Follow Up Information Form General Emergency

ATTACHMENT A (Page 1 of 1)
INITIAL NOTIFICATION FORM
GENERAL EMERGENCY

THIS IS A REAL EVENT THIS IS A DRILL

This is _____
NAME

There has been a **GENERAL EMERGENCY** declared at Browns Ferry affecting:

Unit 1 Unit 2 Unit 3 Common

Event Declared: Time: _____ Date: _____

EAL Designator: _____

Brief Description of the Event:

Radiological Conditions:

- No Abnormal Releases Offsite
- Airborne Release Offsite
- Liquid Release Offsite
- Release Information Not Known at this time

The following Protective Action Recommendation is provided:

- Recommendation 1 - Evacuate 2 mile radius and 10 miles downwind and shelter remainder of 10 mile EPZ.
- Recommendation 2 - Evacuate 2 mile radius and 15 miles downwind and shelter remainder of 10 mile EPZ.

Meteorological Conditions are:

Wind Speed: _____ m.p.h.
Wind Direction From: _____ degrees

Ask, "Please repeat the information you have received to ensure accuracy."

ATTACHMENT B (Page 1 of 2)
UNIT 1, UNIT OPERATOR NOTIFICATIONS

Date: ___/___/___

- NOTES:** (1) The Emergency Paging System consists of a dedicated touch screen CRT. Activation of any screen feature requires the user place their fingertip within the boundary of the select button and leave it there for at least 1 second. The CRT Screen will normally display a large rectangle that indicates that the paging system is available but currently inactive.
- (2) If the EPS fails to operate, contact the SM/SED immediately. Request that the ODS be contacted to initiate the system from his location. If the system fails to operate from the ODS area, then utilize the Weekly Duty List and Call-Out List to manually staff the Emergency Responders, implementing this attachment at step E.

1. Activation of the Emergency Paging System (EPS).

- | | | | |
|----|--|-------------------------------|---------------------------|
| A | PRESS the EPS CRT Screen once to activate the paging options. | <u> </u>
INITIALS | <u> </u>
TIME |
| B. | PRESS the appropriate option | <u> </u>
INITIALS | <u> </u>
TIME |
| | <ul style="list-style-type: none"> • PAGER TEST • DRILL • EMERGENCY • ABORT | | |
| C | PRESS the START Button to initiate the option or ABORT to deny the option request. | <u> </u>
INITIALS | <u> </u>
TIME |
| D. | MONITOR the Paging System Terminal Display | <u> </u>
INITIALS | <u> </u>
TIME |
| | <p>1. IF... A "NO" response is observed
OR
The position being paged has not responded within approximately 20 minutes</p> <p>THEN... Utilize the Weekly Duty List and attempt to contact the position representative with available information. (No Fitness for Duty Question Required)</p> | | |
| | <p>2. IF... The individual cannot be reached utilizing the Weekly Duty List</p> <p>THEN... Utilize the Call-Out List and attempt to contact an alternate position representative. (Fitness for Duty Question Required)</p> | | |

ATTACHMENT B (Page 2 of 2)
UNIT 1, UNIT OPERATOR NOTIFICATIONS

Date: ___/___/___

E. Manual Call-Out (N/A step if EPS operates normally)

1. Utilize the current Weekly Duty List and contact positions as listed.
2. If a position can not be reached from the current Weekly Duty list, then refer to the Call-out List as applicable to fill all vacant positions.

INITIALS TIME

F. CONTINUE until all positions have been filled.

INITIALS TIME

2. Notify the Unit Supervisors on shift.

INITIALS TIME

3. Notify Nuclear Security Shift Supervisor and state "A GENERAL EMERGENCY HAS BEEN DECLARED" and direct to activate EPIP-11, Security and Access Control.

INITIALS TIME

- Plant Extension 3150 or 2219

4. Notify the Chemistry Lab Supervisor and state "A GENERAL EMERGENCY HAS BEEN DECLARED" and direct to implement 2/3-TI-331, Post Accident Sampling Procedure and CI-900 series, Analysis Procedures.

INITIALS TIME

- Plant Extension 2367 or 2368

5. Notify the RADCON Shift Supervisor and state "A GENERAL EMERGENCY HAS BEEN DECLARED" and direct to activate EPIP-14, Radiological Control Procedure.

INITIALS TIME

- Plant Extension 7865 or 3104

6. Notify the "On-Call" NRC Resident and state "A GENERAL EMERGENCY HAS BEEN DECLARED"

INITIALS TIME

- Plant Extension 2572 [Secretary] or from weekly duty list

ATTACHMENT C (Page 1 of 1)
PROTECTIVE ACTION RECOMMENDATIONS

Note 1: If conditions are unknown utilizing the flowchart, then answer NO.

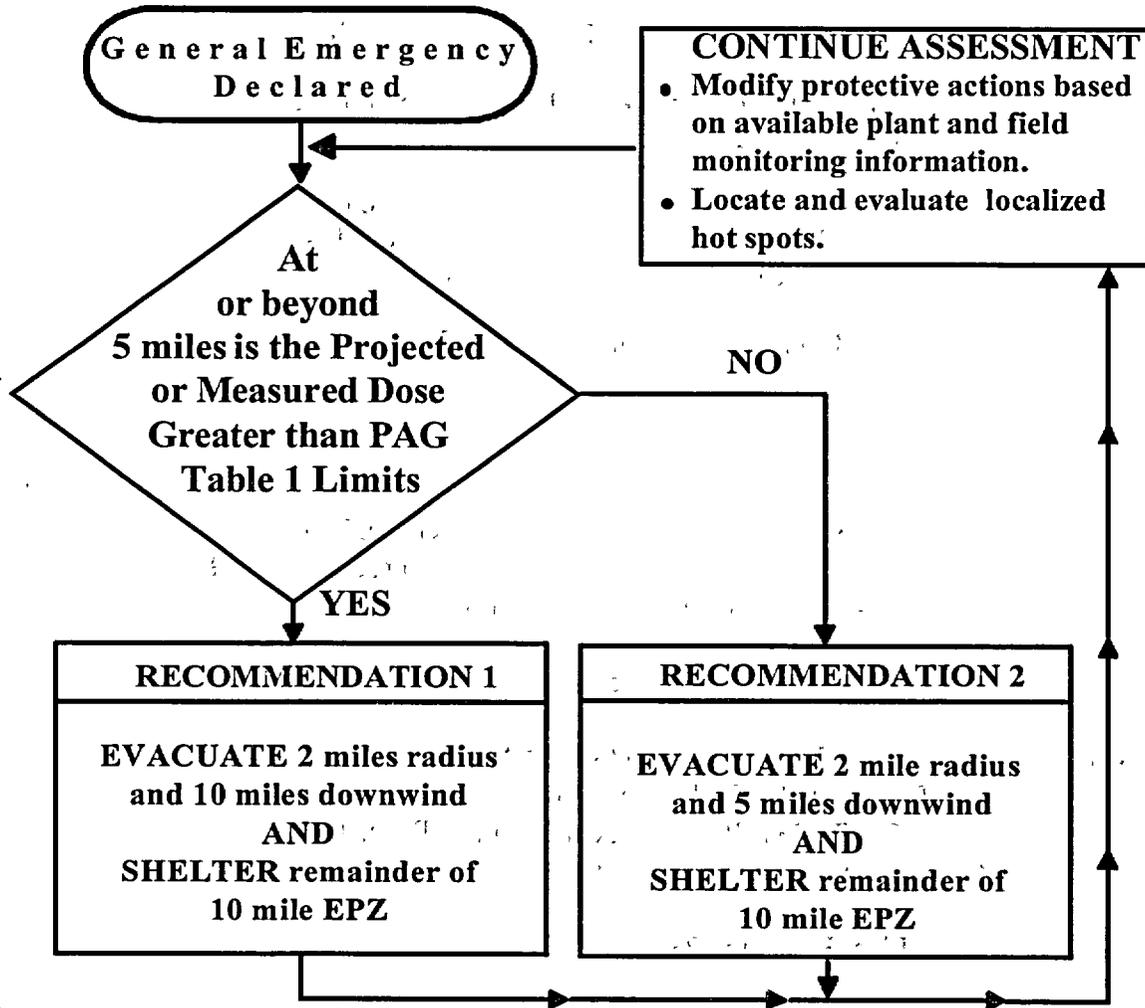


TABLE 1 Protective Action Guides	
TYPE	LIMIT
Measured	3.9E-6 micro Ci/cc of Iodine 131 or 1 REM/hr External Dose
Projected	1 REM TEDE or 5 REM Thyroid CDE

ATTACHMENT D (Page 1 of 1)
FOLLOW-UP INFORMATION FORM
GENERAL EMERGENCY

THIS IS A REAL EVENT THIS IS A DRILL

Note: This form is for conducting Follow-up Information only.

This is _____ at Browns Ferry.
Name

There has been a General Emergency declared at Browns Ferry affecting.

Unit 1 Unit 2 Unit 3 Common

The Reactor is Shutdown At Power

Plant Conditions are Stable Deteriorating

“Follow-Up” Information (e.g., Key Events, Status Changes, Status of any Plant Evacuations)

Current Radiological Conditions are:

No Abnormal Releases Offsite Airborne Release Offsite
 Liquid Release Offsite Release Information Not Known

Additional Rad information: (e.g., release duration)

The current meteorological conditions from the site are:

Wind Speed _____, Wind Direction from _____

The following Protective Action Recommendation is provided:

Recommendation 1
 Recommendation 2

Please repeat the information you have received to ensure accuracy.

The time for this follow up is: Time: _____ Date: _____

SIGNATURE: _____

LAST PAGE

TENNESSEE VALLEY AUTHORITY

BROWNS FERRY NUCLEAR PLANT

EMERGENCY PLAN IMPLEMENTING PROCEDURE

EPIP-8

PERSONNEL ACCOUNTABILITY AND EVACUATION

REVISION 15

PREPARED BY: T. W. CORNELIUS

PHONE: 2038

RESPONSIBLE ORGANIZATION: EMERGENCY PREPAREDNESS

APPROVED BY: GILBERT LITTLE

DATE: 07/22/2002

EFFECTIVE DATE: 07/30/2002

LEVEL OF USE: REFERENCE USE

QUALITY-RELATED

HISTORY OF REVISION/REVIEW

<u>REV. NO.</u>	<u>DATE:</u>	<u>REVISED PAGES</u>		<u>REASON FOR CURRENT REVISION</u>
14	3/20/02	6, 10	IC-17	<p>This revision is being conducted to add the Contractor Facility Complex (CFC) to the list of buildings located outside the protected area for the assembly of organizations not reporting to a assembly area inside the protected area.</p> <p>Page 6 - Revise the "Note" to include the Contractor Facility Complex in the list of reporting areas for assembly outside the protected area.</p> <p>Page 10 - Revise the evacuation checklist for "Outside the Protected Area" assembly areas to include the Contractor Facility Complex (CFC)</p>
15	6/8/02	All	IC-18	<p>Format EPIP to EPIP Writers Guide specifications and place the Security Advisory information in procedure. EPIP-8, revision 15 is being issued to incorporate changes resulting from the letter, NEI to NRC (to Mr. Bruce A. Boger) dated December 18, 2001 requesting confirmation for EAL basis change to include response to a Site-Specific Credible Threat. This letter was developed in response to the NRC's October 6, 2001 Safeguards Advisor. The change to this EPIP is a consequence to the EAL change and other information contained in the order. This revision more effectively provides actions and guidance for all personnel within the BFN Owner Controlled Area.</p>

TABLE OF CONTENTS

1.0 INTRODUCTION	1
1.1 Purpose	1
2.0 REFERENCES	1
2.1 INDUSTRY DOCUMENTS.....	1
A. NUREG-0654, Criteria for Preparation and Evaluation of Radiological Emergency.....	1
Response Plans and Preparedness in Support of Nuclear Power Plants	
B. 10 CFR 50.47, Code of Federal Regulations.....	1
C. NRC Information Notice 2002-14, Ensuring a Capability to Evacuate Individuals, Including	1
Members of the Public, from the Owner-Controlled Area	
2.2 Plant Instructions	1
A. TVA Radiological Emergency Plan.....	1
B. Emergency Plan Implementing Procedure - 2.....	1
C. Emergency Plan Implementing Procedure - 3	1
D. Emergency Plan Implementing Procedure - 4	1
E. Emergency Plan Implementing Procedure - 5.....	1
F. Emergency Plan Implementing Procedure - 14.....	1
3.0 INSTRUCTIONS.....	1
3.1 Activation of the Assembly and Accountability Process	1
A. Shift Manager/Site Emergency Director.....	1
3.2 General Personnel Information.....	1
A. Entering and Exiting the Plant Protected Area	1
3.3 Particular Area Evacuation.....	2
3.4 Site Assembly and Accountability.....	2
A. Non-Emergency Responders With Assigned Assembly Area	2
B. Non-Emergency Responders With No Assigned Assembly Area.....	3
C. Emergency Responders	3
D. Emergency Responders with Escort Responsibilities	3
E. Visitors	3
F. Special Conditions concerning Assembly and Accountability	3
G. Shift Manager/Site Emergency Director	3
H. Nuclear Security.....	4
I. Radiological Control	4
3.5 Evacuation of Site Non-Emergency Response Personnel.....	4
A. Non-Emergency Response Personnel within the Plant Protected Area	4
B. Non-Emergency Response Personnel within the Owner Controlled Area excluding the Plant Protected Area.....	5
C. Emergency Response Personnel.....	5
D. Shift Manager/Site Emergency Director	5
E. Nuclear Security	5
F. Radiological Control	5
4.0 DOCUMENTATION	6

5.0 ILLUSTRATIONS/APPENDICES	6
Appendix A - Non-Emergency Responders Assembly Areas	7
Appendix B - Emergency Responders Emergency Facility/Assembly Areas.....	8
Appendix C - Shift Manager/Site Emergency Director-Assembly and Accountability Actions.....	9
Appendix D - Nuclear Security - Assembly and Accountability Actions.....	12
Appendix E - Radiological Control - Assembly and Accountability Actions	15
Appendix F - Shift Manager/Site Emergency Director - Evacuation Actions	16
Appendix G - Nuclear Security - Evacuation Actions.....	17
Appendix H - Radiological Control - Evacuation Actions	20
Appendix I - Accountability Roster	20

1.0 INTRODUCTION

1.1 Purpose

The purpose of this procedure is to provide a means for administering a protective action response such as the capability to account for all individuals within the Protected Area (PA), the evacuation of all non-emergency personnel within the Owner Controlled Area and PA, in addition to the evacuation of personnel in specific affected plant area(s). The scope of this procedure includes emergency and non-emergency response personnel, visitors, contractor/construction personnel and other persons who may be within the Owner Controlled Area during an emergency situation.

This procedure will be initiated ordinarily by way of an emergency classification procedure step (i.e., EPIP-2, -3, -4, and -5). If situations were to exist, where in the judgment of the Shift Manager/Site Emergency Director (SED), it become prudent to initiate the process of Assembly and accountability and/or evacuation, this procedure can be entered and initiated via that judgment.

2.0 REFERENCES

2.1 Industry Documents

- A. NUREG-0654, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants
- B. 10 CFR 50.47, Code of Federal Regulations
- C. NRC Information Notice 2002-14, Ensuring a Capability to Evacuate Individuals, Including Members of the Public, from the Owner-Controlled Area

2.2 Plant Instructions

- A. TVA Radiological Emergency Plan
- B. EPIP - 2, Notification of Unusual Event
- C. EPIP - 3, Alert
- D. EPIP - 4, Site Area Emergency
- E. EPIP - 5, General Emergency
- F. EPIP - 14, Radiological Control Procedures

3.0 INSTRUCTIONS

3.1 Activation of the Assembly and Accountability Process

A. Shift Manager/Site Emergency Director

1. The Shift Manager or Site Emergency Director shall initiate the activation of the assembly and accountability process.
 - a. The Shift Manager or Site Emergency Director can delegate a designee to carry out the actions of this process, but can not delegate the decision to activate the process.

2. Refer to Appendix C for activation.

3.2 General Personnel Information

A. Normal Entering and Exiting the plant Protected Area (PA)

1. Individuals entering the plant Protected Area shall:
 - Swipe their badge into the entry card reader,
 - Enter the Protected Area in accordance with security procedures.

2. Individuals exiting the Protected Area shall:
 - Swipe their badge into the exit card reader in the appropriate exit portals.
 - Exit the protected area in accordance with security procedures.
3. Entry and exit card readers function as accountability card readers for personnel exiting the PA.

3.3 Particular Area Evacuation

Plant conditions delegate operations to evacuate or request the evacuation of particular plant areas through the TSC.

- A. The Shift Manager/Site Emergency Director (SED) or designee shall make a public address (PA) announcement similar to;

"Attention all personnel. Conditions in the (area to be evacuated) require an evacuation of the area. Leave the (area to be evacuated) immediately."

- B. Personnel in the affected area(s), upon hearing the public address announcement or being notified of the particular area evacuation by any means shall do the following:

1. If working in a contaminated zone, exit the zone in accordance with Radiological Control (RADCON) procedures, unless instructed otherwise by RADCON.
2. Exit the affected area in an orderly manner.

- C. Personnel not in the affected area(s), should continue assigned tasks if not instructed otherwise and should not enter the affected area(s) until the "All Clear" has been announced or directed through emergency response processes.

3.4 Site Assembly and Accountability

A three-minute undulating siren (a siren that raises and lowers in volume and pitch), strobe lights, or public address announcements are the general methods for notifying personnel that emergency conditions exists requiring the assembly and accountability of site personnel. Upon recognition that the assembly and accountability process has been activated, all personnel shall begin immediately to take applicable actions.

- A. Non-Emergency Responders With Assigned Assembly Areas

1. Upon recognition of the assembly and accountability process, non-emergency responders with assigned assembly areas, shall proceed immediately to their designated assembly areas as listed on Appendix A.
2. Arriving at the assembly area, personnel shall:
 - a. Swipe their badge into the accountability card reader (applies only to those assembly areas within the protected area),
 - b. Remain in the designated assembly area until released by the Site Emergency Director (SED) or a plant evacuation is ordered, follow the instructions of Nuclear Security.

B. Non-Emergency Responders With No Assigned Assembly Area

1. Non-Emergency Responders with no assigned assembly area represent unescorted visitors; contractors/construction personnel, and others persons in public access areas on or passing within the Owner Controlled Area.
2. Upon recognition of the assembly and accountability process, non-emergency responders with no assigned assembly area, shall proceed immediately to their vehicle and exit the Owner Controlled Area.

C. Emergency Responders

1. Upon recognition of the Assembly and Accountability process, emergency responders, shall proceed immediately to their designated assembly area as listed on Appendix B.
2. Arriving at the designated assembly area, personnel shall:
 - a. Swipe their badge into the accountability card reader,
 - b. Sign the Accountability Roster Form, Appendix I,
 - c. Review their emergency responsibilities and begin work,
 - d. If a plant evacuation is ordered, all emergency responders will remain in their designated assembly area.

D. Emergency Responders Having Escort Responsibilities

Emergency Responders, will take the applicable steps to have their visitor transferred to a non-emergency responder for relocation to an appropriate assembly area.

E. Visitors

Visitors shall remain with escorts and swipe their badge into the appropriate accountability card reader.

F. Special Conditions Concerning Assembly and Accountability

1. If a person cannot reach his designated assembly area within 20 minutes, he should go to the nearest designated area and swipe his badge into the card reader. He should remain in that assembly area. Review Appendix A and B list assembly area locations.
2. If the accountability card reader will not accept a badge, Nuclear Security should be contacted immediately at extension 3238 or 2219.
3. If a card reader or assembly area cannot be accessed, Nuclear Security should be contacted immediately at extension 3238 or 2219.

G. Shift Manager/Site Emergency Director

When conditions have been met that require the activation of the assembly and accountability process, the Shift Manager/Site Emergency Director will implement Appendix C of this procedure.

- H. Nuclear Security
- When notified that conditions have been met that require the activation of the assembly and accountability process, or upon indications that assembly and accountability has been initiated, Nuclear Security will implement Appendix D of this procedure.
- I. Radiological Control (RADCON)
- When notified that conditions have been met that require the activation of the assembly and accountability process, or upon indication that assembly and accountability has been initiated, Radiological Control will implement Appendix E of this procedure.

3.5 Evacuation of Non-Emergency Response Personnel

A site evacuation will be conducted upon an order issued by the Shift Manager/Site Emergency Director. This Order will be issued to the TSC Nuclear Security Manager or the Nuclear Security Shift Supervisor or their designee, following the completion of assembly and accountability.

A. Non-Emergency Responders Within the Plant Protected Area.

1. All personnel assembled in designated assembly areas within the protected area shall remain in those areas until released for the purpose of evacuation. Visitors shall remain with escorts until visitors have exited the protected area.
2. Nuclear Security will by public address announcement or dispatching security personnel, brief and release persons in assembly areas.
3. Once released, personnel shall go immediately to their appropriate protected area exit portal. Personnel shall swipe their badge into the exit card reader or as instructed by Nuclear Security. The protected area shall be exited in accordance with security procedures unless otherwise instructed.
 - a. If for any reason personnel can not go directly to their designated Protected Area exit portal, Nuclear Security should be contacted immediately.
 - b. If for any reason the exit card reader will not properly acknowledge a badge, Nuclear Security should be contacted immediately.
4. Personnel shall proceed to their vehicle and evacuate from the site to their place of residence, following all briefing information provided to you by Nuclear Security. Exit routes leading away from the plant may be suggested by Nuclear Security.
5. All personnel evacuating should anticipate that Owner Controlled Area road blocks will be established and if conditions require, RADCON will be monitoring vehicles and personnel as they exit.
6. Upon exiting the Owner Controlled Area, personnel shall follow all guidance of state and local authorities.

- B. Non-Emergency Responders Within the Owner Controlled Area Excluding the Plant Protected Area.
1. All personnel assembled in designated assembly areas within Owner Controlled Area excluding the Protected Area shall remain in those areas until released for the purpose of evacuation.
 2. Nuclear Security will dispatch security personnel directly to Owner Controlled Area Assembly Areas, brief and release assembled personnel.
 3. Once released personnel shall proceed to their vehicle and evacuate from the site to their place of residence, following all briefing information provided to you by Nuclear Security. Exit routes leading away from the plant may be suggested by Nuclear Security.
If for any reason personnel can not proceed directly to their vehicle and evacuate, the site Nuclear Security shall be contacted immediately.
 4. All personnel exiting the site Protected Area should anticipate that Owner Controlled Area road blocks will be established and if conditions require, RADCON will be monitoring vehicles and personnel as they exit.
 5. Upon exiting the Owner Controlled Area, personnel shall follow all guidance of state and local authorities.
- C. Emergency Responders
- Emergency Responders shall remain in Emergency Centers and shall not evacuate from the site.
- D. Shift Manager/Site Emergency Director
- When conditions have been met that require an order to evacuate non-emergency response personnel, the Shift Manager/Site Emergency Director will implement Appendix F of this procedure.
- E. Nuclear Security
- When notified that an order to evacuate site non-emergency response personnel has been issued by the Shift Manager/Site Emergency Director, Nuclear Security will implement Appendix G of this procedure.
- F. Radiological Control
- When notified that an order to evacuate site non-emergency response personnel has been issued by the Shift Manager/Site Emergency Director, Radiological Control will implement Appendix H of this procedure.

4.0 DOCUMENTATION**5.0 ILLUSTRATIONS /APPENDICES**

- Appendix A - Non-Emergency Responders Assembly Areas
- Appendix B - Emergency Responders Emergency Facility/Assembly Areas
- Appendix C - Shift Manager/Site Emergency Director - Assembly and Accountability Actions
- Appendix D - Nuclear Security - Assembly and Accountability Actions
- Appendix E - Radiological Control - Assembly and Accountability Actions
- Appendix F - Shift Manager/Site Emergency Director - Evacuation Actions
- Appendix G - Nuclear Security - Evacuation Actions
- Appendix H - Radiological Control - Evacuation Actions
- Appendix I - Accountability Roster

LAST TEXT

APPENDIX A

Page 1 of 1

NON-EMERGENCY RESPONDERS ASSEMBLY AREAS

Designated Assembly Areas Within the Plant Protected Area	Reporting Organizations
Maintenance Shop(s)	Maintenance Production personnel (except for Instrument Mechanic Shop personnel) Maintenance Program Support personnel Work Control Center personnel
Plant Assembly Room	Work Control/Outage personnel
Maintenance Building	Instrument Mechanic (IM) Shop personnel Maintenance Support personnel
Plant Engineering Building	Site Engineering - System Engineering personnel Radwaste personnel, Rad-Chem Engineers
West Access Portal Exit	Personnel from all other organizations not listed who utilize the west portal as their regular entry point.
East Access Portal Exit	Personnel from all other organizations not listed who utilize the east portal as their regular entry point.
Plant Manager's Office Foyer Area	Plant Manager's office staff Operations office staff Maintenance office staff RADCON office staff Outage office staff

Designated Assembly Areas within Owner Controlled Area (Outside the Plant Protected Area)	Reporting Organizations
Administration Building Common Maintenance Building BFN Training and Visitor Center Materials Procurement Complex Modifications Fabrication Shop Modifications Administration Building Contractor Facility Complex (CFC)	All personnel exiting the east or west security portals All personnel within the Owner Controlled Area excluding the Protected Area

APPENDIX B

Page 1 of 1

EMERGENCY RESPONDERS EMERGENCY FACILITY/ASSEMBLY AREAS

Designated Assembly Area	Reporting Organizations
Unit 1 and 2 Control Rooms	All operations personnel in Control Bays, Unit 1/2
Unit 3 Control Room	All operations personnel in Control Bays, Unit 3
Technical Support Center	TSC staff
Operations Support Center	OSC staff Document Control and Records Management, personnel from plant office building information center.
OSC Staging Area	Maintenance personnel assigned to staging area Fire Protection personnel Tool Room personnel AUO Operations personnel assigned to Staging Area
Radiological Control (RADCON)	RADCON Field Operations personnel
Radiochemistry Laboratory	Chemistry Control personnel

SHIFT MANAGER/SITE EMERGENCY DIRECTOR - ASSEMBLY AND ACCOUNTABILITY ACTIONS

The following appendix shall be utilized by the Shift Manager/Site Emergency Director (SM/SED) or designee for the purpose of conducting site assembly and accountability actions.

1. The SM/SED has determined that conditions require the activation of the assembly and accountability siren system and process. _____ Initials _____ Time

2. **NOTIFY... Nuclear Security (NS) at extension 3238 or 2219 that:**

A. The assembly and accountability sirens will be activated immediately.

AND

B. NS should implement EPIP-8, Appendix D.

3. **NOTIFY... Radiological Control (RADCON) at extension 7865 that:**

A. The assembly and accountability sirens will be activated immediately.

AND

B. RADCON should implement EPIP-8, Appendix E.

4. **MAKE... a public address announcement similar to:**

"Attention all plant personnel, the site assembly and accountability process has been initiated. All personnel report immediately to your assigned assembly areas."

(REPEAT)

5. **ACTIVATE... the assembly and accountability sirens.** _____ Initials _____ Time

6. **WHEN... the Assembly and Accountability Sirens have completed the 3-minute cycle and silenced.**

MAKE... a PA announcement similar to:

"Attention all plant personnel, the site assembly and accountability process has been initiated. All personnel report immediately to your assigned assembly areas."

(REPEAT)

SHIFT MANAGER/SITE EMERGENCY DIRECTOR - ASSEMBLY AND ACCOUNTABILITY ACTIONS

NOTE

If at any time during the assembly and accountability process RADCON determines that radiation guidelines for an assembly area(s) have been exceeded, request NS to re-locate affected personnel to another assembly area or evacuate affected personnel off-site.

7. **NOTIFY...** Central Emergency Control Center (CECC) Director either by the direct ring-down telephone in the TSC or at extension 751-1614.

OR

If the CECC Director can not be reached, notify the Operations Duty Specialist (ODS) at extension 751-1700 that:

- A. The assembly and accountability sirens have been activated.

AND

- B. BFN EPIP-8 is currently being implemented for assembly and accountability.

8. **WHEN...** Notified by NS that the assembly and accountability process has been completed.

THEN... MAKE a public address announcement similar to:

"Attention all plant personnel, the site assembly and accountability process has been completed. All personnel remain in your assigned assembly areas."

(REPEAT)

9. **VERIFY** with the SM/SED, that conditions at this time require an order to evacuate all non-emergency response personnel from the Owner Controlled Area. _____
Initials Time

10. **IF...** Conditions at this time, DO require an order to evacuate all non-emergency response personnel from the Owner Controlled Area.

THEN... Initiate Appendix F of this procedure (EPIP-8).

APPENDIX C
Page 3 of 3

SHIFT MANAGER/SITE EMERGENCY DIRECTOR - ASSEMBLY AND ACCOUNTABILITY ACTIONS

11. IF... Conditions at this time, DO NOT require an order to evacuate all non-emergency response personnel from the Owner Controlled Area.

THEN... Exit this procedure. Re-enter this procedure at Appendix F when it has been determined by the SM/SED that conditions require an order to evacuate all non-emergency response personnel.

NUCLEAR SECURITY - ASSEMBLY AND ACCOUNTABILITY ACTIONS

The following appendix shall be utilized by the TSC Security Manager or if unavailable the Security Shift Supervisor or designee for the purpose of conducting a Site Assembly and Accountability actions.

- | | Initials | Time |
|---|--------------------------|------|
| 1. Notified that activation of the assembly and accountability process and actions has been initiated by the SM/SED or designee. | | |
| 2. CONTROL and RESTRICT access to the Protected Area, except for those individuals designated for emergency response, per the Emergency Access List or as authorized for emergency response by the Shift Manager/Site Emergency Director. | <input type="checkbox"/> | |
| 3. ESTABLISH Owner Controlled Area road blocks and on-site traffic controls. | <input type="checkbox"/> | |
| 4. NOTIFY... RADCON at extension 7865 that, Owner Controlled Area road blocks and on-site traffic control actions are in progress. | <input type="checkbox"/> | |

AND

REQUEST... RADCON dispatch personnel to the Owner Controlled Area road blocks if determined by RADCON that survey conditions requiring vehicle survey exist.

- | | | |
|--|--------------------------|--|
| 5. CONTROL and RESTRICT access to the Owner Controlled Area, except for those individuals designated for emergency response, per the Emergency Access List or as authorized for emergency response by the Shift Manager/Site Emergency Director. | <input type="checkbox"/> | |
| 6. DISPATCH officer(s) to search areas within the Owner Controlled Area outside the Protected Area. | <input type="checkbox"/> | |
| A. IF... Visitors, contractors/construction personnel, and other persons in public access areas on or passing within the Owner Controlled Area and not assigned a designated assembly areas are located; | <input type="checkbox"/> | |

THEN... NS will:

- Warn and advise individuals of current actions to conduct assembly and accountability.
- Advise individuals on exits routes and request that they immediately exit the Owner Controlled Area.

NUCLEAR SECURITY - ASSEMBLY AND ACCOUNTABILITY ACTIONS

- B. IF... Visitors, contractors/construction personnel; and other persons in public access areas on or passing within the Owner Controlled Area and assigned a designated assembly areas are located;

THEN... NS will:

- Warn and advise individuals of current actions to conduct assembly and accountability.
- Advise personnel to report immediately to their designated assembly area.

- C. IF... Employees having emergency response assignments are located

THEN... NS will:

- Warn and advise individuals of current actions to conduct assembly and accountability,
- Advise personnel to report immediately to their designated emergency response center.

- D. IF... Employees not having emergency response assignments are located

THEN... NS will:

- Warn and advise individuals of current actions to conduct assembly and accountability.
- Advise personnel to report immediately to the nearest designated assembly area. See Appendix A.

7. REPORT the results of accountability to the SM/SED within 30 minutes after the assembly and accountability sirens have sounded. _____
Initials Time

8. Unaccounted Individuals

IF... Individuals remain unaccounted, 45 minutes following the activation of the assembly and accountability sirens,

THEN...REQUEST permission from the SM/SED to form security search teams to locate the missing individual(s),

AND

NOTIFY RADCON and request that they accompany all security search teams

APPENDIX D

Page 3 of 3

NUCLEAR SECURITY - ASSEMBLY AND ACCOUNTABILITY ACTIONS

9. Two Person (Line of Sight) Rule, Public Address Announcement.

A. WHEN...Assembly and Accountability have been completed,

AND

Nuclear Security has determined that the Two Person (Line of Sight) Rule is required.

THEN...REQUEST permission from the SM/SED to make the following Public Address Announcement:

Initials Time

"Attention all personnel. A credible insider threat exists. Effective immediately, all personnel entering the Vital Areas must observe the 2-person rule. This rule requires that all persons in a vital area must remain in visual contact (i.e. line of sight) with one another unless personnel or plant safety would be adversely impacted. This does not require that the two persons possess similar skills or knowledge. I repeat. The 2-person rule is being implemented immediately."

(REPEAT)

APPENDIX E
Page 1 of 1

RADIOLOGICAL CONTROL - ASSEMBLY AND ACCOUNTABILITY ACTIONS

The following Appendix shall be utilized by the TSC Radiological Control Manager or if he is unavailable the Radiological Control Shift Supervisor or designee, for the purpose of conducting a site assembly and accountability actions.

- | | | | Initials | Time |
|----|--|--------------------------|----------|------|
| 1. | Notified that activation of the assembly and accountability process and actions has been initiated by the SM/SED or designee. | | | |
| 2. | IF... Radiological conditions require, | <input type="checkbox"/> | | |
| | THEN... ESTABLISH a survey routine for all assembly areas, including the Emergency Centers. | | | |
| 3. | IF... Radiological conditions in any assembly area(s) meet or exceed the listed guidelines: | <input type="checkbox"/> | | |
| | <ul style="list-style-type: none"> • Radiation levels that would result in a radiation dose of 100 mrem in one hour, or • airborne radioactivity above 10CFR 20.1201 DAC limits. | | | |
| | THEN... NOTIFY the SM/SED and recommend that the personnel within the affected area be re-located to another assembly area or evacuated from the site. | | | |
| 4. | WHEN... Notified by Nuclear Security that Owner Controlled Area Roadblocks have been established, | | Initials | Time |
| | THEN... EVALUATE radiological conditions to determine if a RADCON survey checkpoint at the Owner Controlled Area road block should be established. | | | |
| 5. | IF... Radiological conditions require that a RADCON survey checkpoint be established, | <input type="checkbox"/> | | |
| | THEN... DISPATCH RADCON personnel to the Owner Controlled Area road block. | | | |
| | AND | | | |
| | ESTABLISH a RADCON survey checkpoint. | | | |
| 6. | WHEN... Notified by Nuclear Security that assembly and accountability search teams are required. | <input type="checkbox"/> | | |
| | THEN... DISPATCH RADCON personnel to assist security search teams. | | | |

APPENDIX F
Page 1 of 1

SHIFT MANAGER/SITE EMERGENCY DIRECTOR - EVACUATION ACTIONS

The following appendix shall be utilized by the Shift Manager/Site Emergency Director or designee for the purpose of conducting a evacuation of site non-emergency response personnel.

- | | Initials | Time |
|--|--------------------------|--------------------------|
| 1. Conditions have been met that require an order to evacuate site non-emergency response personnel. | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Assembly and accountability has been completed. | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. NOTIFY... Nuclear Security (NS) at extension 3238 or 2219 that: | <input type="checkbox"/> | <input type="checkbox"/> |
| A. An order to evacuate site non-emergency response personnel has been issued. | | |
| AND | | |
| B. NS Should implement EPIP-8, Appendix G. | | |
| 4. NOTIFY... Radiological Control at extension 7865 that: | <input type="checkbox"/> | <input type="checkbox"/> |
| A. An order to evacuate site non-emergency response personnel has been issued, | | |
| AND | | |
| B. RADCON should implement EPIP-8, Appendix H. | | |
| 5. NOTIFY... Central Emergency Control Center (CECC) Director either by the direct ring-down telephone in the TSC or at extension 751-1614, | <input type="checkbox"/> | <input type="checkbox"/> |
| OR | | |
| If the CECC Director can not be reached, Operations Duty Specialist (ODS) at extension 751-1700 that: | | |
| A. An order to evacuate site non-emergency response personnel has been issued, | | |
| AND | | |
| B. BFN EPIP-8 is currently being implemented for evacuation of site non-emergency response personnel. | | |

APPENDIX G
Page 1 of 3

NUCLEAR SECURITY - EVACUATION ACTIONS

The following appendix shall be utilized by the TSC Security Manager or if unavailable the Security Shift Supervisor or designee for the purpose of conducting a evacuation of site non-emergency response personnel.

- | | | Initials | Time |
|----|--|--------------------------|------|
| 1. | Notified that an order to evacuate site non-emergency response personnel has been initiated by the SM /SED. | | |
| 2. | CONTINUE to control and restrict access to the Plant Protected Area, except for those individuals designated for emergency response, per the Emergency Access List or as authorized for emergency response by the Shift Manager/Site Emergency Director. | <input type="checkbox"/> | |
| 3. | CONTINUE to maintain Owner Controlled Area road blocks and on-site traffic controls. | <input type="checkbox"/> | |
| 4. | CONTINUE to control and restrict access to the Owner Controlled Area, except for those individuals designated for emergency response, per the Emergency Access List or as authorized for emergency response by the Shift Manager/Site Emergency Director. | <input type="checkbox"/> | |
| 5. | NOTIFY... RADCON at extension 7865 that, Owner Controlled Area road blocks and on-site traffic control actions are in progress, | <input type="checkbox"/> | |

AND

REQUEST... RADCON dispatch personnel to the Owner Controlled Area road blocks if it is determined by RADCON that conditions requiring vehicle survey exist.

- | | | Initials | Time |
|----|--|----------|------|
| 6. | EVALUATE evacuation route: | | |
| A. | Consult with RADCON information concerning off-site environmental radiological hazards (potential plume pathways). | | |
| B. | Consider local weather information to determine if hazardous weather conditions exist. | | |
| C. | Consider, all information concerning terrorist activity within a 10 mile radius of the site. | | |

NUCLEAR SECURITY - EVACUATION ACTIONS

7. **DETERMINE** evacuation route based upon information obtained in step 6 of this appendix:
- Shaw Road (North) only,
 - Nuclear Plant Road (East) only,
 - Either Shaw Road or Nuclear Plant Road.

8. **VERIFY** that all prior listed items are complete before continuing in this action list.

NOTE

The order in which assembly areas are evacuated is at the discretion of Nuclear Security. The list of assembly areas is not intended to suggest a order for completion.

NOTE

Brief and advise all individuals in assembly areas of:

- Current actions to conduct an evacuation of all non-emergency response personnel,

AND

- Recommended exits routes, directing all personnel to follow the instructions of local law enforcement officers upon leaving the Owner Controlled Area.

9. **DISPATCH** Security personnel to evacuate the following assembly areas _____
Initials Time
- BFN Training and Visitor Center,
 - Administration Building,
 - Materials and Procurement Complex,
 - Common Maintenance Building,
 - Modifications Fabrication Shop,
 - Modification Administration Building,
 - Contractor Facility Complex (CFC).

APPENDIX G
Page 3 of 3

NUCLEAR SECURITY - EVACUATION ACTIONS

10. DISPATCH Security personnel or utilize the public address system to evacuate the following assembly areas: _____
Initials Time

- Maintenance Shop Area,
- Plant Assembly Room,
- Maintenance Building,
- Plant Engineering Building,
- Plant Manager's Office Foyer Area.

11. NOTIFY the Shift Manager/Site Emergency Director upon completion of evacuation site non-emergency response personnel. _____
Initials Time

APPENDIX H
Page 1 of 1

RADIOLOGICAL CONTROL - EVACUATION ACTIONS

The following appendix shall be utilized by the TSC Radiological Control Manager, or if he is unavailable the Radiological Control Shift Supervisor or designee, for the purpose of conducting a evacuation of site non-emergency response personnel.

1. Notified of order to evacuate site non-emergency response personnel has been initiated by the SM /SED. _____
Initials Time

2. IF... a radiological survey checkpoint has not been established at the Owner Controlled Area Roadblock, then:

THEN... DISPATCH RADCON personnel to the Owner Controlled Area road block .

AND

ESTABLISH a RADCON survey checkpoint.

3. IF... Radiological concerns merit the activation of the off-site decontamination facility, _____
Initials Time

THEN... Implement EPIP-14, Step 3.8, Activation of the Browns Ferry Alternate Personnel Decontamination Facility.

