



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

February 6, 2004

10 CFR Part 50, App E

U.S. Nuclear Regulatory Commission
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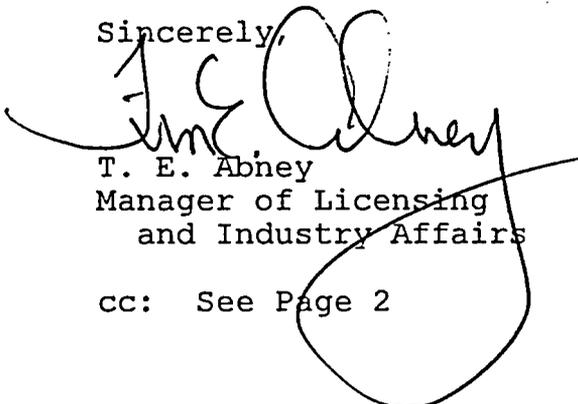
Gentlemen:

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, EIPs were revised, namely, EPIP-1, Table Of Contents, Revision 35; Section II- 6.0, Revision 31; and Section III-6.0, Revision 31; EPIP-12, Revision 1; and EPIP-17, Revision 28. The effective date for these revisions is January 22, 2004. If you have any questions, please telephone me at (256) 729-2636.

Sincerely,



T. E. Abney
Manager of Licensing
and Industry Affairs

cc: See Page 2

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U.S. Nuclear Regulatory Commission
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February 6, 2004

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

EMERGENCY PLAN IMPLEMENTING PROCEDURE (EPIP) REVISIONS
EPIP-1, EPIP-12 AND EPIP-17

SEE ATTACHED

GENERAL REVISIONS

FILING INSTRUCTIONS

FILE DOCUMENTS AS FOLLOWS:

PAGES TO BE REMOVED

EPIP-1, TOC Revision 34
SECTION II - 6.0 Revision 30
SECTION III - 6.0 Revision 30
EPIP-12 Revision 0
EPIP-17, Revision 27

PAGES TO BE INSERTED

EPIP-1, TOC Revision 35
SECTION II - 6.0 Revision 31
SECTION III - 6.0 Revision 31
EPIP-12 Revision 1
EPIP-17, Revision 28

TENNESSEE VALLEY AUTHORITY

BROWNS FERRY NUCLEAR PLANT

EMERGENCY PLAN IMPLEMENTING PROCEDURE

EPIP-1

EMERGENCY CLASSIFICATION PROCEDURE

REVISION 35

PREPARED BY: RANDY WALDREP

PHONE: 2038

RESPONSIBLE ORGANIZATION: EMERGENCY PREPAREDNESS

APPROVED BY: JEFF LEWIS

DATE: 12/17/2003

EFFECTIVE DATE: 01/22/2004

LEVEL OF USE: REFERENCE USE

QUALITY-RELATED

REVISION LOG

Procedure Number: EPIP-1

Revision Number 35

Pages Affected: 1,49, 164

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.
- IC-45 EPIP 1, rev. 34 is being conducted to modify information that support EAL 1.1-G1, 1.1-G2, and 3.1-S. The revision incorporates changes resulting from modifications to calculations that support Minimum Alternate RPV Flooding Pressures (MARFP), Minimum Steam Cooling Reactor Water Level (MSCRWL) and Maximum Safe Operating Area Temperature Limits. Revisions to these calculations were conducted in support of the EOI Program Manual Revision 22 (U2C13).
- IC-46 EPIP-1 rev. 35 is being conducted to more effectively clarify the Emergency Action Level, 6.3-A. This change was initiated through the BFN Drill and Exercise Program as an Improvement Item.

EPIP-1
EMERGENCY CLASSIFICATION PROCEDURE

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EPIP-1
EMERGENCY CLASSIFICATION PROCEDURE

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HAZARDS

6.0

NOTES:

CURVES/TABLES:

RADIOLOGICAL		
DESCRIPTION	DESCRIPTION	
<p>6.1-U</p> <p>Valid, unexpected increase of ANY in plant ARM reading to 1000 mrem/hr (except TIP Room).</p> <p>OPERATING CONDITION: - All</p>		UNUSUAL EVENT
<p>6.1-A1</p> <p>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).</p> <p>OPERATING CONDITION: - All</p>	<p>6.1-A2</p> <p>Control Room radiation levels >15 mrem/hr.</p> <p>OPERATING CONDITION: - All</p>	ALERT
		SITE EMERGENCY
		GENERAL EMERGENCY

NOTES:

CURVES/TABLES:

CONTROL ROOM EVACUATION		TURBINE FAILURE		
DESCRIPTION		DESCRIPTION		
		6.3-U	<p>Turbine failure resulting in casing penetration OR Significant damage to turbine or generator seals during operation.</p> <p>OPERATING CONDITION: - Mode 1 - Mode 2</p>	UNUSUAL EVENT
6.2-A	<p>Control Room Abandonment from entry into AOI-100-2 or SSI-16 for ANY Unit Control Room.</p> <p>OPERATING CONDITION: - All</p>	6.3-A	<p>Turbine failure resulting in visible structural damage to OR Visible penetration of ANY of the following structures from missiles:</p> <ul style="list-style-type: none"> • Reactor Building • Diesel Generator Building • Intake Structures • Control Bay <p>OPERATING CONDITION: - Mode 1 - Mode 2</p>	ALERT
6.2-S	<p>Control Room Abandonment from entry into AOI-100-2 or SSI-16 for ANY Unit Control Room.</p> <p>AND</p> <p>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.</p> <p>OPERATING CONDITION: - All</p>			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	DESCRIPTION
<p>6.7-U</p> <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>	UNUSUAL EVENT
<p>6.7-A</p> <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>	ALERT
<p>6.7-S</p> <p>Intrusion into ANY plant vital area by a hostile force.</p> <p>OPERATING CONDITION: - All</p>	SITE EMERGENCY
<p>6.7-G</p> <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>	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

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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

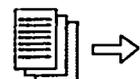
Control of Reactor water level, Reactor pressure, and Reactor power (for Modes 1,2, & 3) or decay heat removal (for Modes 4 & 5) per AOI-100-2 or SSI-16, as applicable, CANNOT be established within 20 minutes after evacuation is initiated.

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
Visible 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

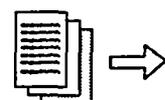
**Fire or explosion causing visible damage to permanent structures
or safety systems in ANY area listed in Table 6.4-A.**

**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**

BASISThis 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

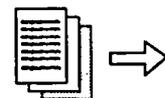
Release of flammable gases within any building or structure listed in Table 6.5/6.6 in concentrations at or above 25% of the Lower Explosive Limit (LEL) for any three readings obtained in a 10 ft. triangular area as indicated by Fire Protection of Industrial Safety personnel using appropriate monitoring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

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)

TECHNICAL SERVICES DIVISION
TENNESSEE VALLEY AUTHORITY

1347
BROWNS FERRY NUCLEAR PLANT

02/15/04

01/15/04

00

BROWNS FERRY NUCLEAR PLANT

1347
BROWNS FERRY NUCLEAR PLANT

02/15/04

01/15/04

01/15/04

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EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-12

EMERGENCY EQUIPMENT IMPLEMENTING PROCEDURE

REVISION 01

PREPARED BY: TONY FELTMAN

PHONE: 3666

RESPONSIBLE ORGANIZATION: EMERGENCY PREPAREDNESS

APPROVED BY: JEFF LEWIS

DATE: 01/15/2004

EFFECTIVE DATE: 01/22/2004

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>
00	10/29/02	ALL	IC-01	The revision is being conducted to renumber procedure which was EPIP-17 to EPIP-12 for standardization issues. Revised records section for standardization and removed FRED Manuals from the TSC inventories.
01	01/06/04	All	IC-02	Format EPIP to EPIP Writers Guide specifications and standardize the contents of the procedure according to the guidance provided by the EP Peer Team.

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1.0 INTRODUCTION

1.1 Purpose

The purpose of this instruction is to comply with the requirements of the Radiological Emergency Plan for periodic inspection and maintenance of equipment and supplies.

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, Code of Federal Regulations Appendix E, Emergency Planning and Preparedness for Production and Utilization Facilities Part IV.E.9.d
- C. NRC Regulatory Issue Summary 2000-11: NRC Emergency Telecommunications System
- D. NUREG-0696, Functional Criteria for Emergency Response Facilities

2.2 Plant Instructions

- A. TVA Radiological Emergency Plan
- B. CECC EPIP-9, Emergency Environmental Radiological Monitoring Procedures
- C. FP-0-000-INS005, Quarterly Inspection of Emergency Equipment

3.0 INSTRUCTIONS

3.1 Conduct of Inventories

A. General Information

1. Inventories and functional checks shall be conducted in accordance with the frequencies provided in paragraph 3.4, "Responsible Organizations".
2. A copy of the most current inventory of the equipment may be posted on the outside of the cabinet where a posting device has been provided or inside the cabinet when a posting device is not available.
3. The individuals performing the inventory shall complete the appendices as indicated and make arrangements to correct any items found unsatisfactory.
4. Completed appendices will be forwarded prior to the end of the quarter or inventory period in which they are due to the Emergency Preparedness Manager for review and record.
5. Personnel conducting the tasks will provide legible documentation of results.
6. Individuals conducting the inventory shall list any unsatisfactory condition and the disposition in the remarks section of the applicable Appendices. Deficient, outdated or missing items shall be replaced as soon as possible.
7. The Emergency Preparedness Manager is responsible for ensuring the overall state of readiness of supplies and equipment identified in this procedure.
8. The Emergency Preparedness Manager, or his designee, shall review all task forms and concur with results by signature.
9. Monthly or quarterly shall be defined as prescribed in the Radiological Emergency Plan. Terms such as once every calendar quarter or month invokes that the task should be conducted within the timeframe of a physical quarter or month

3.2.5 Completion of Appendices

A. Form Completion

1. A checkmark in the "SAT" column will represent that the item(s) being inventoried meets the operable condition and/or minimum quantities were observed.

2. If the "As Found" condition of items differ from the expected condition, comments in the "Remarks" column of the appendix should be recorded and in enough detail clearly communicate the conditions found and actions taken. Comments such as the following - "batteries missing" do not document the full action taken. Comments for this example should read: "Batteries missing, replaced on Feb 5, 04".

B. Unexpected Conditions

- 1. All unexpected "As Found" conditions shall be corrected as soon as possible. If circumstances do not allow prompt correction, the Emergency Preparedness Manager shall be notified. Once the condition(s) has been corrected, the applicable form shall be completed.
- 2. For instances where the "As Found" condition(s) results in the initiation of another accepted plant corrective action process such as a "Problem Evaluation Report" (PER), "Trouble Ticket", "Work Order", "Work Request", etc., the appendices may be closed following the documentation of the action taken. The unsatisfactory condition will be tracked by the corrective action process.
- 3. "As found" and quantities at less than minimum specified and/or functional testing issues generally do not rise to the levels described in SPP 3.1 if promptly corrected. However, any items deemed to meet the criteria of SPP 3.1 shall be documented under SPP 3.1.

C. Special Checks

- 1. Special checks of certain material in the cabinets shall be performed. The following checks shall be made where applicable:
 - 1. The protective clothing and heat/moisture sensitive materials shall be checked for deterioration.
 - 2. The smoke tubes and aspirator bulbs shall be checked for deterioration and that the tubes have not been broken or used.
 - 3. Replace all flashlight batteries at the end of shelf-life with fresh batteries. (Do not discard batteries. Return them to the tool room.)
 - 4. Check to determine that flashlights are operable.
- 2. The emergency equipment stored in cabinets may be provided with a lock or plastic seal as a means of controlling access or determining that the cabinet has not been opened.

3.3 Special Inventories

Special inventories and/or functional checks shall be conducted in addition to routine activities when items or equipment maintained by this procedure has been affected by a drill/exercise, training, or actual emergency. These special inventories shall be performed at a reasonable time following the activity. These special inventories may also be used as the routine inventory.

3.4 Responsible Organizations

Responsible Organizations (as designated below) shall conduct inventories at the specified frequencies.

Apdx	Frequency	Description	Responsible Org.
A	Calendar Quarter	Technical Support Center	EP
B	Calendar Quarter	Operations Support Center	EP
C	Calendar Quarter	Main Control Room	EP
D	Calendar Quarter	Local Recovery Center	EP
E	Calendar Quarter	RADCON Equipment	RadCon
F	Calendar Quarter	Onsite Decontamination	RadCon
G	Calendar Year	Protective Clothing	RadCon
H	Calendar Quarter	Agreement Hospital Cabinet Inventory	EP
I	Monthly (per REP)	Monthly Testing Of Communications Equipment	EP
J	Quarterly (per REP)	Quarterly Administrative Checks And Reviews (Quarterly per REP & Once per Calendar Quarter)	EP
K	Calendar Quarter	Review of Inventories Performed in other Procedures	EP
L	Calendar Quarter	Emergency Dosimetry	RadCon
M	Calendar Quarter	Maintenance Emergency Tool Box Inventory	Maintenance
N	Calendar Quarter	Alternate Decontamination Facility	EP
O	Calendar Quarter	Emergency Use SCBA Inventory	Fire Operations

4.0 RECORD RETENTION**4.1 Records of Classified Emergencies**

The materials generated in support of key actions during an actual emergency classified as a Notification of Unusual Event or higher are considered Lifetime retention Non-QA records. Materials shall be forwarded to the EP Manager who shall submit any records deemed necessary to demonstrate performance to the Corporate EP Manager for storage.

4.2 Drill and Exercise Records

The materials deemed necessary to demonstrate performance of key actions during drills are considered Non-QA records. These records shall be forwarded to the EP Manager who shall retain records deemed necessary to demonstrate six-year plan performance for six years. The EP Manager shall retain other records in this category for three years

4.3 Emergency Equipment and Supply Records

The Appendices/Checklists in this Instruction are NON-QA documents and will be retained by the BFN EP Manager for at least three years.

5.0 ILLUSTRATIONS / APPENDICES

- Appendix A - Technical Support Center
- Appendix B - Operations Support Center
- Appendix C - Main Control Room
- Appendix D - Local Recovery Center
- Appendix E - RADCON Equipment
- Appendix F - Onsite Decontamination
- Appendix G - Protective Clothing
- Appendix H - Agreement Hospital Cabinet Inventory
- Appendix I - Monthly Testing of Communications Equipment
- Appendix J - Quarterly Administrative Checks and Reviews
- Appendix K - Inventories Performed by other Procedures
- Appendix L - Emergency Dosimetry
- Appendix M - Maintenance Emergency Tool Box Inventory
- Appendix N - Alternate Decontamination Facility
- Appendix O - Emergency Use SCBA Inventory

LAST TEXT

APPENDIX A
Page 1 of 1

TECHNICAL SUPPORT CENTER

SUPPLIES

SAT	Min	Description	Remarks
	Asrtd	Office/Desktop Supplies	
	Asrtd	Dry board Supplies	
	6	Calculators, (Scientific)	
	12	Flashlights	
	24	Batteries (D-Cells) Best used by Date: ____ / ____	
	24	Batteries (AA) Best used by Date: ____ / ____	
	5	Telephone Headsets (in workspace)	
	3	Telephone Headsets (Spares)	
	12	Grease Pencils	
	4 pk	Copier Paper	
	1 Roll	Thermal Paper for Tracking Board	
	1	Accountability Roster (Current Rev)	
	1 ea	TSC Position Notebooks - Check for uncontrolled or out-of-date materials in notebooks or TSC area	
	2	ASME Steam Tables	

MAPS

SAT	Min	Description	Remarks
	1	2 Mile Map Latest Rev. _____	Verify wall maps are the latest revision (see EPIL-1)
	1	10 Mile Evac Sect. Map Latest Rev. _____	
	2	10 Mile Sample Point Map Latest Rev. _____	
	1	50 Mile Sample Point Map Latest Rev. _____	
	1 set	Radcon Survey Maps	

COMMUNICATIONS BRIDGES

SAT	Min	Description	Remarks
		Verify bridges are functional by calling numbers listed on two phones and ensuring clear communications.	
	√	# Bridge	
		101 Ops Bridge - Talk	
		102 Ops Bridge - Listen	
		103 RadCon Bridge	

TECHNICAL SUPPORT CENTER

FUNCTIONAL CHECKS

SAT	Description	Remarks																												
	Verify Key Phones for TSC are functional by calling numbers listed in the REND.																													
	Verify CECC ring-down is functional by calling CECC Director Position																													
	Verify Fixed Satellite Phone is functional by calling known good phone																													
	Verify CECC Terminal/Printer is functional by printing current Met Data																													
	Verify copier is functional by copying a page																													
	Verify Zetron Radio is functional using handheld radio																													
	Verify Incoming Fax is functional by faxing to Outgoing Fax																													
	Verify Outgoing Fax is functional by faxing to Incoming Fax																													
	Verify clocks are functional by checking current time																													
	Verify signs are functional by changing to one or more classifications and observing																													
	Verify TSC Printer is functional by printing test page																													
	Verify all ICS/Personnel Computers (PC) Terminals are functional																													
√	<table border="1"> <thead> <tr> <th>Position</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>Operations Mgr. ICS</td> <td></td> <td></td> <td></td> </tr> <tr> <td>RadCon Mgr. ICS</td> <td></td> <td></td> <td></td> </tr> <tr> <td>RadCon Area ICS</td> <td></td> <td></td> <td></td> </tr> <tr> <td>TSC Area ICS</td> <td></td> <td></td> <td></td> </tr> <tr> <td>TSC Clerical PC</td> <td></td> <td></td> <td></td> </tr> <tr> <td>SAMG Area PC</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Position				Operations Mgr. ICS				RadCon Mgr. ICS				RadCon Area ICS				TSC Area ICS				TSC Clerical PC				SAMG Area PC				
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RadCon Mgr. ICS																														
RadCon Area ICS																														
TSC Area ICS																														
TSC Clerical PC																														
SAMG Area PC																														

EMERGENCY CENTER PA SYSTEM

SAT	Description	Remarks
	VERIFY operability TSC/OSC Public Address System by:	
	ACTIVATE the system from the TSC	
	Stage someone in the TAT Area and OSC	
	BROADCAST "a test message". Confirm that message was heard.	
	OSC	
	TSC TAT Area	

APPENDIX A
Page 3 of 4

TECHNICAL SUPPORT CENTER

PROCEDURES

SAT	Min	Description	Remarks
	4	REP (Radiological Emergency Plan)	<i>Verify presence only (DCU controls contents)</i>
	2	REND	
	2	CECC EIPs	
	11	BFN EIPs	
	1 Set	Severe Accident Management Guidelines Flowcharts (SAMGs)	
	1 Set	Technical Support Guidelines	
	1 Set	Emergency Operating Instructions (EOI) Flowcharts	
	1 Set	EOI Program Manual	
	1 Set	Radiological Control Instructions	
	1 Set	Abnormal Operating Instructions	
	1	AL Radiological Response Plan	
	1	Multi-Jurisdictional Radiological Emergency Response Plan TEMA	
	1 Set	Alarm Response Procedures	
	1 Set	Operating Instructions	
	1 Set	Technical Specifications	
	1 Set	Technical Requirements	
	1 Set	Safe Shutdown Instructions	
	1 Set	Final Safety Analysis Report	
	1	Fire Protection Report	
	1	Users Manual - Emergency Paging System	
	1	Users Manuals - Meteorological Data Print Program	
	1	Users Manual - Meteorological Data Display	
	1	Operators Manual Zetron Radio Console	
	1 set	Plant Drawings	

APPENDIX B
Page 1 of 3

OPERATIONS SUPPORT CENTER

SUPPLIES (OSC)

SAT	Min	Description	Remarks
	Asrtd	Office/Desktop Supplies	
	Asrtd	Dry board Supplies	
	6	Calculators, (Scientific)	
	1	Camera	
	12	Flashlights	
	24	Batteries (D-Cells) Best used by Date: ____ / ____ / ____	
	24	Batteries (AA) Best used by Date: ____ / ____ / ____	
	4	Telephone Headsets (in workspace)	
	2	Telephone Headsets (Spares)	
	12	Grease Pencils	
	4 pk	Copier Paper	
	1 Roll	Thermal Paper for Tracking Board	
	1	Accountability Roster (Current Rev)	
	1 ea	OSC Position Notebooks - Check for uncontrolled or out-of-date materials in notebooks or OSC area	

FUNCTIONAL CHECKS (OSC)

SAT	Description	Remarks
	Verify Key Phones for TSC are functional by calling numbers listed in the REND	
	Verify copier is functional by copying a page	
	Verify OSC Zetron Radio is functional using handheld radio	
	Verify Radcon Zetron Radio is functional using handheld radio	
	Verify Fax is functional by sending and receiving a Fax	
	Verify clocks are functional by checking current time	
	Verify signs are functional by changing observing correct time	
	Verify TSC Printer is functional by printing test page	
	Verify all ICS/Personnel Computers (PC) Terminals are functional	
√	Position	
	Status Board ICS	
	RadCon Area ICS	
	Maint. Area PC	

OPERATIONS SUPPORT CENTER

EMERGENCY CENTER PA SYSTEM (OSC)

SAT	Description	Remarks
	VERIFY operability OSC/OSC Staging Area Public Address System by:	
	ACTIVATE the system from the OSC	
	Stage someone in the OSC Staging Area	
	BROADCAST "a test message". Confirm that message was heard.	
	OSC Staging Area	
	OSC	

RADIOS

SAT	Min	Description	Remarks
	10	Hand held radios	
	10	Radio batteries	
	10	Radio battery chargers	

APPENDIX B
Page 3 of 3

OPERATIONS SUPPORT CENTER

SUPPLIES (OSC Staging Area)

SAT	Min	Description	Remarks
	Asrtd	Office/Desktop Supplies	
	Asrtd	Dry board Supplies	
	1	Calculators, (Scientific)	
	12	Flashlights	
	24	Batteries (D-Cells) Best used by Date: ____/____/____	
	1	Accountability Roster (Current Rev)	
	1 ea	OSC Staging Area Position Notebooks - Check for uncontrolled or out-of-date materials in notebooks or OSC Staging Area	

FUNCTIONAL CHECKS (OSC Staging Area)

SAT	Description	Remarks
	Verify Key Phones for TSC are functional by calling numbers listed in the REND	

ICE VESTS (OSC Staging Area)

SAT	Min	Description	Remarks
	12	Ice Vests	
	72	Ice Packs for Vests	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

MAIN CONTROL ROOMS

FUNCTIONAL CHECKS (UNIT 1/2 MCR)

SAT	Description	Remarks
	Verify Key Phones for MCR are functional by calling numbers listed in the REND	
	Verify ODS ring-down is functional by calling ODS Position	
	Verify Fixed Satellite Phone is functional by calling known good phone	
	Verify the Emergency Paging System Terminal is functional by activating the "touch-screen" and receiving an anticipated response	
	Test the Control Room Communicator portable phone by dialing a known good number.	

FUNCTIONAL CHECKS (UNIT 3 MCR)

SAT	Description	Remarks
	Verify Key Phones for MCR are functional by calling numbers listed in the REND	
	Verify ODS ring-down is functional by calling ODS Position	
	Verify Fixed Satellite Phone is functional by calling known good phone	
	Test the Control Room Communicator portable phone by dialing a known good number.	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

LOCAL RECOVERY CENTER

SUPPLIES

SAT	Min	Description	Remarks
	Asrtd	Office/Desktop Supplies	
	Asrtd	Dry board Supplies	
	4	Calculators (Scientific)	
	12	Flashlights	
	24	Batteries (D-Cells) Expires /	

FUNCTIONAL CHECKS

SAT	Description	Remarks
	Verify Key Phones for LRC are functional by calling numbers listed in the REND	
	Verify CECC Terminal/Printer is functional by printing current Met Data	
	Verify the LRC ICS Terminal is functional	
	Verify that the Portable Satellite Telephone is functional	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX E
Page 1 of 2

RADCON EQUIPMENT

NOTE

Survey instrumentation, counting equipment, air samplers, dosimeters and other radiological control equipment is maintained in calibration by the Western Area Labs. Conduct of this inventory does include verification that instruments are within calibration dates.

RADIOLOGICAL CONTROL LABORATORY - SERVICE BUILDING

SAT	Min	Description	Remarks
	1	Alpha Survey Meter (500,000 cpm)	
	1	Neutron dose rate survey meter (5,000 mR/hr)	
	2	High Range Survey Instrument (1,000 R/hr with extendible probe)	
	2	ION Chamber Survey Meters (50 R/h)	
	2	Frisker Type Survey Meters (50,000 cpm)	
	1	Mini-Scaler	
	1	Shielded Detector (Located in Radcon Area, Service Building, el. 565')	
	2	High volume Air Samplers	
	1	Low-volume Air sampler	
	10	Silver Zeolite Cartridges NOTE: 10 year shelf life if packaging is unopened Date of Manufacture: ___/___/___	
	1 Bx	Smears	
	1	Calculator	
	8	Flashlights	
	16	Batteries (D-Cell) Expires: ___/___/___	
	2 Bx	Particulate Air Filters	
	12	Pens	
	2000	KI Tablets Expires: ___/___/___ (Location in Radcon Supply Cage)	

RADCON EQUIPMENT

NOTE

Survey instrumentation, counting equipment, air samplers, dosimeters and other radiological control equipment is maintained in calibration by the Western Area Labs. Conduct of this inventory does include verification that instruments are within calibration dates.

RADIOLOGICAL CONTROL LABORATORY – CONTROL BUILDING

SAT	Min	Description	Remarks
	1	Alpha Survey Meter (500,000 cpm)	
	1	Neutron dose rate survey meter (5,000 mR/hr)	
	2	High Range Survey Instrument (1,000 R/hr with extendible probe)	
	2	ION Chamber Survey Meters (50 R/h)	
	2	Frisker Type Survey Meters (50,000 cpm)	
	1	Mini-Scaler	
	1	Shielded Detector	
	2	High volume Air Samplers	
	1	Low-volume Air samplers	
	10	Silver Zeolite Cartridges NOTE: 10 year shelf life if packaging is unopened Date of Manufacture: ____ / ____ / ____	
	1 Bx	Smears	
	1	Calculators	
	8	Flashlights	
	16	Batteries (D-Cell) Expires: ____ / ____ / ____	
	2 Bx	Particulate Air Filters	
	12	Pens	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX F
Page 1 of 1

ONSITE DECONTAMINATION

DECONTAMINATION ROOM

SAT	Min	Description	Remarks
	2 bx	Disposable Gloves	
	2 bx	Gauze Pads	
	1 pkg	Cotton Swabs	
	2 btl	Saline Solution	
	12	Surgical Brushes	
	2 btl	Shampoo	
	5 bar	Soap	
	1 bx	Laundry detergent	
	1 btl	Soap (liquid abrasive)	
	2 can	Mechanic's Hand Cleaner	
	1 can	Shaving Cream	
	5	Razors	
	1 bx	Paper Bath Towels	
	25	Towels	
	1 pr	Scissors	
	5	Petri Dishes	
	2 roll	Duct Tape	
	10 pr	Paper Coveralls	
	1 pair each size	Shoes (Sizes 7-12) half sizes are OK	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX G
Page 1 of 1

PROTECTIVE CLOTHING

NOTE

Based upon size availability an alternate distribution may be acceptable at the discretion of the Radcon Supervisor and the EP Manager, noted by signature of the completed form.

STAGING AREA

SAT	Min	Description	Remarks
	40 Pr	Coveralls	
	10	Size 46	
	10	Size 48	
	5	Size 50	
	5	Size 52	
	5	Size 54	
	5	Size 58	
	25 pr	Rubber overshoes - Various sizes	
	25 pr	Rubber gloves - Various sizes	
	25	Surgeon caps	
	25	Hoods	
	25	Cotton Glove Inserts	
	25	Booties	
	8 roll	Duct tape and/or masking tape	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX H
Page 2 of 2

AGREEMENT HOSPITAL CABINET INVENTORY

NOTE

Survey instrumentation, counting equipment, air samplers, dosimeters and other radiological control equipment is maintained in calibration by the Western Area Radiological Labs. Conduct of this inventory verifies that instruments are within calibration dates.

SAT	Min	Description	Remarks
	2	Hospital specific booklet (1 at desk, 1 in cabinet) Last Update: ____/____/____	
	1	NCRP # 65 Reference Handbook	
	10	TLDs	
	1	Wound probe with cable	
	10	Electronic dosimeters and tray	
	200	Smears	
	12	Radioactive Material tags	
	1	Masslin mop and 20 cloths	

SAT	Min	Description	Serial Number	Calibration Due
	1	Bicron Surveyor 50		
	1	Bicron Surveyor 50		
	1	Bicron ISM (RSO-5 or 50)		

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

MONTHLY TESTING OF COMMUNICATIONS EQUIPMENT

NOTES

1. Obtain Shift Manager approval before conducting testing on Main Control Room telephones or equipment
2. Report failures immediately to (1) the Shift Manager and (2) the NRCOC at 9-1-301-951-0550.
3. Initial Trouble Ticket, Work Request, etc. for repairs.
4. Upon completion of repairs, repeat check on affected telephones. If test is satisfactory, inform the Shift Manager and the NRCOC.

TECHNICAL SUPPORT CENTER

SAT	Description	Remarks
	VERIFY operability of the NRC ENS System by contacting the NRC on the Emergency Notification System (ENS) line in the TSC TVA Area (2273) and confirming dial tone on others ENS Phones.	
	Dial the NRC utilizing the sticker on the ENS phone in the TVA Area. Ensure that communications are understandable.	
	Request that the NRC return your call. Supply appropriate telephone number	
	VERIFY return call received	
	VERIFY dial tones at the following TSC locations	
	TVA – Health Physics Network (HPN) (2212)	
	NRC - Reactor Safety Counterpart Link (RSCL) (3757)	
	NRC - Protective Measures Counterpart Link (PMCL) (3758)	
	NRC – Management Counterpart Link (MCL) (3759)	
	NRC – Emergency Notification System (ENS) (2273)	
	NRC - Health Physics Network (HPN) (2212)	
	NRC – Local Area Network (LAN) dial-up line (3760)	

MAIN CONTROL ROOM

SAT	Description	Remarks
	VERIFY operability by confirming dial tone on the two NRC ENS phones in the MCR upon the completion of the TSC test.	
	U1/U2 (2273)	
	U3 (2273)	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

**QUARTERLY ADMINISTRATIVE CHECKS AND REVIEWS
(REP Quarterly)**

NOTES

The "Call-Out List" contains active Emergency Responders by emergency response position. The list is utilized as a tool for the manual call-out of emergency responders. The list is a non-QA record.

CALL-OUT LIST

SAT	Description	Remarks
	Verify the phone numbers and pager numbers listed in the BFN REP Call List out list.	
	DISTRIBUTE corrected copies to the Unit 1 Main Control Room, and place one in the EP department files.	

NOTES

The "Emergency Access List" contains the names of individuals which are allowed access to the protected area, during radiological emergencies at BFNP for the purposes of serving in the emergency response organization. The list is a non-QA record.

EMERGENCY ACCESS LIST

SAT	Description	Remarks
	PRINT and PROVIDE five copies of the BFN Emergency Access List to Nuclear Security for distribution.	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX J
Page 2 of 2

QUARTERLY ADMINISTRATIVE CHECKS AND REVIEWS
(Once per Calendar Quarter)

EPIP TELEPHONE NUMBERS IN PROCEDURES

SAT	Description	Remarks
	REVIEW the phone numbers in the BFN EIPs once per calendar quarter for accuracy.	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX K
Page 1 of 1

REVIEW OF INVENTORIES PERFORMED BY OTHER PROCEDURES (QUARTERLY)

AMBULANCE MEDICAL SUPPLIES: (FIRE OPERATIONS)

FP-0-000-INS005 Once per Calendar Quarter review of inspection of emergency equipment performed Date: _____

EMERGENCY VAN SUPPLIES: (RADCON)

CECC-EPIP 9 Appendix H performed
Truck 4 Date: _____
Truck 5 Date: _____

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

EMERGENCY DOSIMETRY

PACKAGES FOR ACCESS CONTROL POINT

SAT	Min	Description	Remarks
	25	Packets each containing the following: <ul style="list-style-type: none"> • TLDs (Verify Current Quarter) • Self-Reading Dosimeter (Rezero) • Potassium Iodide Tablet (in Foil packet) • Emergency Worker Information Card 	

PACKAGES FOR PERIMETER SECURITY CHECKPOINT

SAT	Min	Description	Remarks
	50	Packets each containing the following: <ul style="list-style-type: none"> • TLDs (Verify Current Quarter) • Self-Reading Dosimeter (Rezero) • Potassium Iodide Tablet (in Foil packet) • Emergency Worker Information Card 	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX M
Page 1 of 5

MAINTENANCE EMERGENCY TOOL BOX INVENTORY

ELECTRICAL TOOL BOX (1 OF 1)

Tool Box T1616000001 SAT	Tool Box T1616000002 SAT	Min	Description	Remarks
		2	Pliers, Needle Nose, 6"	
		2	Pliers, Diagonal, 6"	
		2	Tester, Circuit, 24.0"	
		2	Rule, Folding, Carpenters, Outside Reading, 6'	
		2	Pliers, Tongue & Groove, 10", #430 Channel Locks	
		2	Screwdriver, STD Tip, .25" Tip, X 8.0" Long	
		2	Screwdriver, STD Tip, .313" Tip, X 4.0" Long	
		2	Screwdriver, STD Tip, .125" Tip, X 6.0" Long	
		2	Pliers, Lineman's, 9.0"	
		2	Screwdriver, STD Tip, .25" Tip, X 6.0" Long	
		2	Screwdriver, Phillips Tip, #2 Tip, 4" Blade	
		2	Screwdriver, Holding, .25" X 6" (Klein)	
		2	Wrench, Adjustable, 10.0"	
		1	Flashlight	
		1	500 Volt Megger	
		1	VOM	
		1	Amp Probe	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX M
Page 2 of 5

MAINTENANCE EMERGENCY TOOL BOX INVENTORY

MECHANICAL TOOL BOX (1 OF 1)

Tool Box T1633000001 SAT	Tool Box T1633000002 SAT	Min	Description	Remarks
		1	Flux, Soldering	
		1	Chisel, Cold, .4375" Cut	
		1	Wrench Set, Combo, 0.250"-1.250"	
		1	Wrench Set, Hex Key (Allen), 0.187"-0.375"	
		1	Wrench Set, Hex Key (Allen), Folding, 0.050"-0.187"	
		1	Socket Set, .375"	
		1	Hammer, Ball Pein, 12 oz	
		1	Punch, Pin, .188"	
		1	Punch, Pin, .125"	
		1	Pliers, Tongue & Groove, 9" #420 Channel Locks	
		1	Screwdriver, Phillips Tip, Round Shank, #2 Tip X 4.0" Blade	
		1	Screwdriver, Phillips Tip, Round Shank, #2 Tip X 1.50" Blade	
		1	Screwdriver, STD Tip, .25" Tip X 6.0" Long	
		1	Screwdriver, STD Tip, .25" Tip X 12.0" Long	
		1	Wrench, Pipe, 12"	
		1	Wrench, Adjustable, 12"	
		1	Pliers, Needle Nose, W/Side Cutter, 8"	
		1	Pliers, Slip Joint, 10"	
		1	Flashlight	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX M

Page 3 of 5

MAINTENANCE EMERGENCY TOOL BOX INVENTORY

I & C TOOL BOX (1 OF 3)

Tool Box T1617000001 SAT	Tool Box T1617000002 SAT	Min	Description	Remarks
		1	Pliers, Tongue & Groove, 9, #42 Channel Locks	
		1	Screwdriver, STD Tip, .25" Tip, X 6.0" Long	
		1	Screwdriver, Jewelers, Set of Six, .25"-1.00" Mfg. Starrett	
		1	Screwdriver, Holding, .25" X 6" (Klein)	
		1	Cord, Extension, 110 V 100'	
		1	Wrench Set, Hex Key (Allen), Folding, 0.050"-0.187"	
		1	Wrench, Ignition, Set	
		1	Wrench, Valve Wheel, Number 0, 8.0"X.50"X.656"	
		1	Socket, Set, 1/4" DR., SL/DW, 3/16" to 9/16"	
		1	Driver, Nut, Set, Fractional 1/4" to 1/2"	
		1	Wrench, Set, Hex key, .028" to 5/8"	
		1	Cutter, Tube, .125" to .625"	
		1	Cutter, Tube, .125" to 1.125"	
		1	Pliers, Diagonals, 6"	
		1	Pliers, Lineman, 7"	
		1	Pliers, Needle Nose, 7"	
		1	Pliers, Tongue & Groove, #430 CL	
		1	File, Half Round, 4" Smooth	
		1	File, Round, 6" Smooth	
		1	Puller, Fuse, Midget	
		1	Puller, Fuse, 100A-250V	
		1	Screwdriver, Phillips, #1x3"	
		1	Screwdriver, Phillips, #2x4"	
		1	Screwdriver, Flat, 1/8x2.25"	
		1	Screwdriver, Flat, 1/4x6"	

APPENDIX M

Page 4 of 5

MAINTENANCE EMERGENCY TOOL BOX INVENTORY

I & C TOOL BOX (2 OF 3)

Tool Box T1617000001 SAT	Tool Box T1617000002 SAT	Min	Description	Remarks
		1	Screwdriver, Flat, 1/4x4"	
		1	Screwdriver, Flat, 5/16x6"	
		1	Screwdriver, holding, SM/pocket Clip	
		1	Screwdriver, Holding, 3/16x6"	
		1	Screwdriver, holding, 1/4x8"	
		1	Wrench, Adjustable, 4"	
		1	Wrench, Adjustable, 6"	
		1	Wrench, Adjustable, 8"	
		1	Wrench, Combo, 3/8"	
		1	Wrench, Combo, 7/16"	
		1	Wrench, Combo 1/2"	
		1	Wrench, Combo, 9/16"	
		1	Wrench, Combo, 5/8"	
		1	Wrench, Combo, 11/16"	
		1	Wrench, Combo, 3/4"	
		1	Wrench, Flare Nut, 1/2"-9/16"	
		1	Wrench, Flare Nut, 5/8"-11/16"	
		1	Wrench, Flare Nut, 3/4"-1"	
		1	Wrench, Flare Nut, 7/8"-1 1/8"	
		1	Flashlight	

APPENDIX M
Page 5 of 5

MAINTENANCE EMERGENCY TOOL BOX INVENTORY

I & C TOOL BOX (3 OF 3)

NOTES

The following items are supplied by the I & C Shop, if restock is necessary.

Tool Box T1617000001 SAT	Tool Box T1617000002 SAT	Min	Description	Remarks
		2	* Tube Fitting, 1/4" M NPT to 3/8" tube comp	
		2	* Tube Fitting, 1/4" F NPT to 1/4" tube comp	
		2	* Tube Fitting, 3/8" comp to 3/8" comp	
		2	* Tube Fitting, 1/4" comp to 1/4" comp	
		2	* Tube Fitting, Tee, 1/4" comp	
		1	Tape, Electrical, Scotch 33 Black	
		2	Jumpers, Banana, 2' orange w/clips	
		1 Pk	Tywraps, 3/16" X 8"	
		1 Pk	Tywraps, 1/8" X 4"	
		1	Valve Wrench, Custom Made, I & C Specs.	
		1	Snoop, Bottle, 8 oz	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX N
Page 1 of 1

ALTERNATE DECONTAMINATION FACILITY

POWER SERVICE SHOP #4-TVA, MUSCLE SHOALS RESERVATION

SAT	Min	Description	Remarks
	2 Pkg	Cotton Tipped Swabs	
	1 Box	Square Gauze	
	1 Box	Detergent	
	12	Surgical Brushes	
	2 Can	Waterless Hand Cleaner	
	2 Btl	Shampoo	
	100	Paper Bath Towels	
	12	Small Coveralls	
	12	Medium Coveralls	
	12	Large Coveralls	
	12	Small Tennis Shoes	
	12	Large Tennis Shoes	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

APPENDIX O
Page 1 of 1

EMERGENCY USE SCBA INVENTORY

CAUTION

The 5 SCBA units located in the 4kV Shutdown Bd. Rm. "C" are required for 10 CFR 50 Appendix R Support.

SCBA

SAT	Min	Description	Remarks
	5	SCBA, Unit 1 Control Room	
	2	Large, SCBA face pieces (Gold Rim), Unit 1 Control Room	
	1	Small, SCBA face pieces (Gray Rim), Unit 1 Control Room	
	5	SCBA, Unit 2 Control Room	
	2	Large, SCBA face pieces (Gold Rim), Unit 2 Control Room	
	1	Small, SCBA face pieces (Gray Rim), Unit 2 Control Room	
	5	SCBA, Unit 3 Control Room	
	2	Large, SCBA face pieces (Gold Rim), Unit 3 Control Room	
	1	Small, SCBA face pieces (Gray Rim), Unit 3 Control Room	
	15	Air Cylinders, Service Building Elevation 565, Service Shop Hallway	
	10	SCBA, Fire Equipment Cabinet Turbine Building - 557'	
	10	Air Cylinders, Fire Equipment Cabinet Turbine Building - 557'	
	5	SCBA, 4kV Shutdown Bd Rm "C"	
	2	Large, SCBA face pieces (Gold Rim), 4kV Shutdown Bd Rm "C"	
	1	Small, SCBA face pieces (Gray Rim), 4kV Shutdown Bd Rm "C"	
	5	SCBA, 3A Electrical Board Room	
	2	Large, SCBA Face pieces (Gold Rim), 3A Electrical Board Room	
	1	Small, SCBA Face pieces (Gray Rim), 3A Electrical Board Room	
	4	SCBA, Fire Equipment Cabinet Stairwell - RB 1&2 El. 565'	
	4	SCBA, Fire Equipment Cabinet Stairwell - RB 2&3 El. 565'	
	2	SCBA, Radcon Emergency Cart	
	4	SCBA, Fire Apparatus	

Completed By _____ Date: _____

Review and Approval: EP Manager _____ Date _____

LAST PAGE

TENNESSEE VALLEY AUTHORITY

BROWNS FERRY NUCLEAR PLANT

EMERGENCY PLAN IMPLEMENTING PROCEDURE

EPIP-17

FIRE EMERGENCY PROCEDURE

REVISION-28

PREPARED BY: A. H. FELTMAN

PHONE: 3666

RESPONSIBLE ORGANIZATION: EMERGENCY PREPAREDNESS

APPROVED BY: JEFF LEWIS

DATE: 01/15/2004

EFFECTIVE DATE: 01/22/2004

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>
26	10/29/03	All	IC-30	This revision is being conducted to cancel EPIP-17. EPIP-17 is being renumbered for standardization issues. EPIP-12 will manage Emergency Equipment and Supplies (Inventory and Operability Procedure). The Cancellation of EPIP-17 and activation of EPIP-12 will be accomplished as a parallel change.
27	1/23/03	All	IC-31	This revision is being conducted as a recommendation of the EP Peer Team, standardization process. EPIP-21 "Fire Emergency Procedure" is being moved to EPIP-17. As noted in IC-30 EPIP-17 was canceled and the contents of EPIP-17 placed into EPIP-12. This revision reactivates EPIP-17 as the "Fire Emergency Procedure". There has been no material revision to the existing Fire Emergency Procedure, this revision only moves the content of the procedure to EPIP-17.
28	1/8/04	All	IC-32	This revision is being conducted to incorporate information provided by Fire/Medical Operations as a corrective action for PER 03-014380-000. During a Fire Protection Self Assessment it was identified that EPIP-17 should include a reference to 0-AOI-26-1. This procedure will also be re-formatted.

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1.0 INTRODUCTION

1.1 Purpose

The purpose of this procedure is to provide a means for administering a timely response to fire emergencies at Browns Ferry and a mechanism to notify additional emergency personnel or resources as needed. This procedure applies to all fire emergencies at Browns Ferry Nuclear Plant.

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

2.2 Plant Instructions

- A. TVA Radiological Emergency Plan

3.0 INSTRUCTIONS

3.1 General

- A. All members of the fire response team will proceed to the scene upon receiving notification.

3.2 Initial Notification by Unit Operator

- A. Upon receiving a fire emergency call, the Unit 1 Control Room Unit Operator will:
 - Obtain name of caller.
 - Obtain location of fire.
 - Obtain nature of fire.
 - Obtain telephone number from caller.
- B. Initiate the "Fire Alarm Bell".
- C. Announce fire location over the plant public address (PA) system, repeating at regular intervals until instructed otherwise by Shift Manager or Unit Supervisor.
- D. Notify the Fire Protection Personnel using the Operations/Fire Protection Radio.
- E. Notify the Shift Manager of the fire.

3.3 Shift Manger Responsibilities

- A. The Shift Manager will:
 - Dispatch Unit Supervisor or designee to the scene to act as Incident Commander.
 - Establish and maintain communications with the Incident Commander.
 - Refer to SSI-001 for applicability based on the severity of the fire.
- B. The Shift Manager will when requested by the Incident Commander notify the off-duty BFN fire protection personnel. Notify the off duty BFN fire protection personnel from a call list maintained in the Shift Manager office area. This list will be maintained by the Fire Protection Organization.

- C. When requested by the Incident Commander notify of the Clements Volunteer Fire Department. Notify the Clements Volunteer Fire Department by calling the Limestone County Sheriff's Dispatcher (233-3473).
- D. Following an "Appendix R Fire" - direct the Operations Support Center (OSC) to provide ventilation of Shutdown Board Rooms by MSI-0-000-PRO005, Electrical Equipment Room Emergency Ventilation.
- E. When requested, by the Incident Commander, to shut down ventilation during a fire, consider utilizing 0-AOI-26-1 for ventilation shut down to ensure that fire dampers close properly.

3.4 Incident Commander Responsibilities

- A. The Incident Commander will:
 - Establish radio communication with the Shift Manager.
 - Keep Shift Manager advised of situation.
 - Request Shift Manager to call in off-site support as needed.

3.5 RADCON Representative Responsibilities

- A. The RADCON Representative will:
 - Advise the Incident Commander of radiological hazards.
 - Ensure the Incident Commander is aware of areas of significant radiation exposure and airborne radioactivity that may affect stay time for team members.
 - Notify the Incident Commander of any team members limitations in regards to stay time.

4.0 DOCUMENTATION

4.1 Records of Classified Emergencies

The materials generated in support of key actions during an actual emergency classified as a Notification of Unusual Event or higher are considered Lifetime retention Non-QA records. Materials shall be forwarded to the EP Manager who shall submit any records deemed necessary to demonstrate performance to the Corporate EP Manager for storage.

4.2 Drill and Exercise Records

The materials deemed necessary to demonstrate performance of key actions during drills are considered Non-QA records. These records shall be forwarded to the EP Manager who shall retain records deemed necessary to demonstrate six-year plan performance for six years. The EP Manager shall retain other records in this category for three years

5.0 ILLUSTRATIONS/APPENDICES

NONE

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