PURPOSE

The purpose of this procedure is to describe the Accident Classification System and to delineate those actions necessary to properly identify an accident class by initiating conditions and associated observable plant parameters. Detailed emergency responses or "Action Statements" for each class of emergency are found in Procedures EP I-1, EP I-2, EP I-3 and EP I-4.

DESCRIPTION - ACCIDENT CLASSIFICATION GUIDE

The Classification Guide is separated into four (4) basic modules.

They are:

- RADIOLOGICAL An actual release of radioactive material, abnormal radiation level, or indicated failure of a fission product boundary.
- 2) OPERATIONAL Any plant conditions, equipment failure or combination of the two (2) which could result in a radiological incident.
- 3) FIRE/NATURAL/SECURITY Any fire, natural phenomena, or security event affecting the operability of structures or equipment which could lead to a radiological incident.
- 4) MISCELLANEOUS Any event not addressed in the Radiological, Operational, or Fire/Natural/Security modules which could lead to a radiological incident or require off-site notification.

Each basic module is broken down into major event categories as submodules, illustrated on the "Accident Classification Flowchart" (Attachment No. 1 of this procedure). Each submodule is then further divided. The specific indicating conditions comprise the left hand column of each page in the Classification Guide. The middle column in the Guide lists the observable plant parameters of "Emergency Action Levels" (EAL's), the recognition of which requires entry into the appropriate accident classification (listed by Emergency Procedure) required for specific initiating conditions.

DESCRIPTION - ACCIDENT CLASSIFICATION FLOWCHART

The Accident Classification Flowchart (Attachment No. 1 of this procedure) is a tool designed to assist the Senior Shift Supervisor/Shift Technical Advisor/EDO in selecting the appropriate portion of the Accident Classification Guide when certain combinations of plant conditions may dictate selection of, or escalation to, a higher order of emergency classification.

USE OF THE ACCIDENT CLASSIFICATION SYSTEM

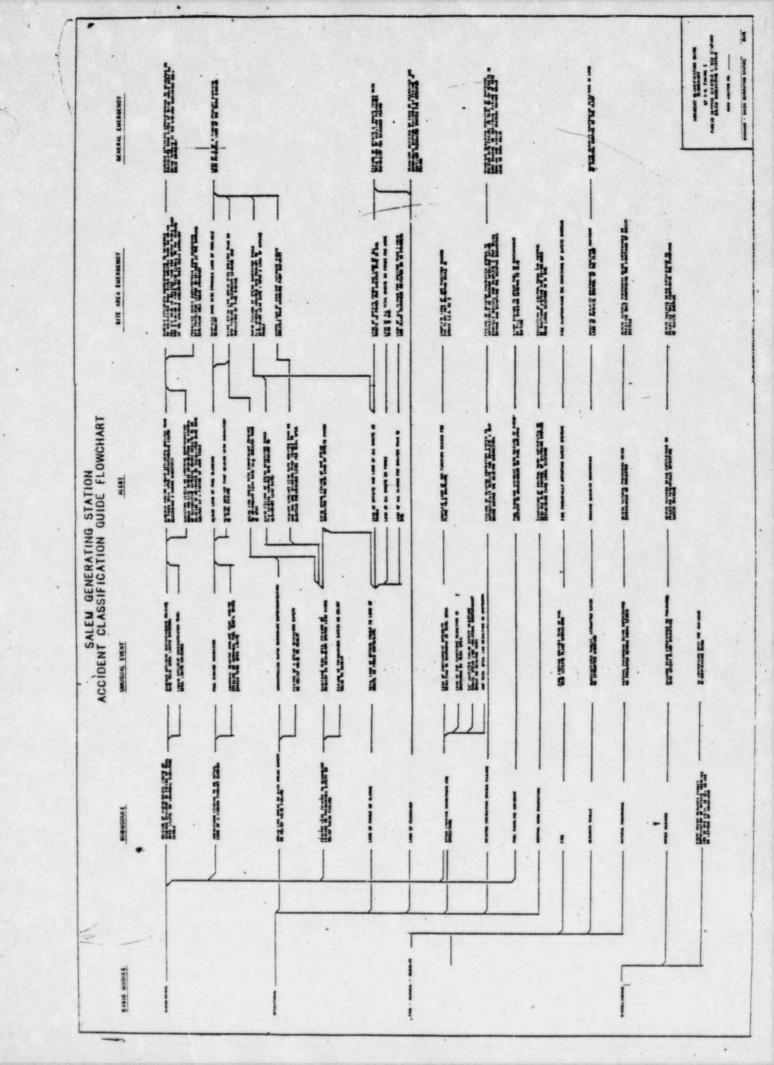
The mechanisms by which Emergency Procedures EP I-1 through EP I-4 are initially implemented are as follows:

- An event occurs which causes initiation of a Plant Emergency Instruction which in turn refers to a specific part within the Accident Classification Guide.
- 2) Plant parameters which reach an EAL for an accident class in the Accident Classification Guide are observed by plant operators.

Upon recognition of conditions which require implementation of the Emergency Plan, the Control Operators will notify the Senior Shift Supervisor/Shift Supervisor.

In the event that plant conditions degrade or additional abnormal plant conditions arise, the Senior Shift Supervisor/Shift Supervisor/EDO/STA may find additional assessment guidance by use of the Accident Classification Flowchart (although the Flowchart is not intended to replace the Accident Classification Guide). The Flowchart can indicate, for certain combinations of plant conditions, which basic module in the guide contains the Initiating Conditions, EAL's, and applicable Emergency Procedure for the conditions present.

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		Date
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	Manager - Nuclear Site Protection	Date



RADIOLOGICAL: An actual Release of Radioactive material, abnormal radiation levels or indicated failure of a fission product boundary.

INITIATING CONDITION	EMERGENCY ACTION LEVELS	ACCIDENT CLASS
1. Gaseous effluent instantaneous release rate Technical Specifi- cations limits exceeded for 1 hr. (Appendix B Technical Specification 2,3,3).	A. Any of the following valid process monitor readings for longer than 1 hr. which are greater than:	UE (EP I-1)
	1R-41C: 4.3E5 cpm 1R-41B: 8.3E4 cpm	
	2R-41C: 4.9E5 cpm 2R-41B: 8.3E4 cpm	
	Confirmation by grab sample and laboratory analysis shall be made as soon as possible.	
 Sustained liquid release (greater than 15 min.) of radiological effluents greater than 10 times Technical Specification instan- taneous limits and which is not immediately controllable. 	A. Any of the following valid RMS process monitor readings for longer than 15 min. which are greater than:	(EP Y-2)
	1R-41C: 4.3E6 cpm or high off-scale 1R-41B: 8.5E5 cpm	
	2R-41C: 4.9E6 cpm or high off-scale 2R-41B: 8.3E5 cpm	
 Dose rate at the minimum exclusion area equivalent to 500 mR/hr W.B. or 2500 mR/hr to the thyroid for 2 minutes. 	A. Any of the following valid RMS process monitor reading for longer than two minutes which are greater than:	SAE (EP I-3)
	1R-41C: 2.9E7 cpm	
A. Based upon Gaseous Effluent Monitors and site specific 5% worst case meteorology.	1R-41B; 5.8E6 cpm 1R-43; 5.0E0 mE/hr 2R-41C; 3.4E7 cpm 2R-41B; 5.8E6 cpm	
B. Based upon containment radiation levels, design basis, leak rate and site specific 5% worst case meteorology.	B. Valid radiation monitor reading as follows:	SAE (EP I-3)
	1R-21: Off-scale or 2R-21: 3.785 mR/hr.	
C. Based upon dose rate survey	C. 1) Pield team measures whole body dose rates greater than 50 mrem/hr for 0.5 or greater t'an 500 mrem/hr for 2 min. at the MEA.	SAE (EP I-3)
	<u>OR</u>	
	2) Field team measures Thyroid dose rates (equivalent I-131 concentrations) greater than:	
	250 mrem/hr (1.0E-7 uCi/cc) for 0.5 hr; or 2500 mrem/hr (1.0E-6 uCi/cc) for 3 min. at the HEA.	
D. Projected W.B./Thyroid dose using actual meteorology.	D. As indicated by dose calculation procedure EP IV-111, 112, or 113.	SAE (EP I-3)

INITIATING CONDITION	EMERGENCY ACTION LEVELS	ACCIDENT CLAS
N.B. or 5R/hr to the thyroid.		
A. Based upon Gaseous Effluent Monitors and site specific 54 worst case meteorology.	A. Any of the following valid Radiation Monitor readings as follows:	GE (EP I-4)
	1R-41C: Off-scale or	
	1R-41B; Off-scale or 1R-43: 10mR/hr or	
	2R-41C: Off-scale or	
	2R-41B: Off-scale	
B. Based upon containment radiation levels, design basis leak rate and site specific 5% worst case meteorology.	B. Valid Radiation Monitor reading as follows:	GE (EP I-4)
	1R-21: Off-scale or	
	2R-21: 7.5E5 mR/hr.	
C. Based upon dose rate survey.	C. Pield survey team measures 1 R/hr. W.B. at the HEA or 5 R/hr Thyroid (I-131 concentration of 2.0E-6 uCi/cc).	GE (EP I-4)
D. Projected W.B./Thyroid dose using actual meteorology.	D. As indicated by dose calculation procedure EP IV-111, 112, or 113.	GE (El I-4)
. Radiation levels or airborne contamination which indicate a severe degradation in the control of radioactive materials which results in an increase in measure or calculated dose rate	A. Increase in measured or calculated dose rates (mB/hr) either installed or portable monitoring equipment by a factor of 1000.	(EP I-2)
(mR/hr) by a factor of 1000 times.	<u>OR</u>	
	B. Unit 1 verification based on increase of analog strip chart reading over a 20 minute period.	
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	C. Unit 2 verification based on radiation monitoring computer trend.	
. Liquid effluent concentration specification limits exceed for 15 min.	A. Any of the following valid radiation monitoring readings for longer than 15 miniutes which are greater than:	(EP I-1)
	1R-18: 1.0E4 cpm or 2R-18: 4.08E4 cpm and	
	B. Isolation valve fails to close.	
	<u>op</u>	
	C. 1R19A, B, C, D: alarm and blowdown to 12 SGB tank in progress or 2R19A, B, C, D: alarm and blowdown to 22 SGB tank in progress or	

RADIOLOGICAL: An actual Release of Radioactive material, abnormal radiation levels or indicated failure of a fission product boundary.

INITIATING CONDITION

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GE GE

(EP 1-4)

11. (Continued) Loss of 2 or 3 fission product barriers with a potential loss of 3rd barrier, (e.g., loss of primary coolant boundary, clad failure and high potential for loss of containment).

B. Loss of Primary Coolant Inventory

1. Primary coolant leakage exceeds makeup capacity, low pressurizer level,
pressurizer level decreasing and Charging Pumps' flow at maximum.

OR 2. a) Valid containment presure greater than 4.9 peig.

AND
b) Accumulator(a) discharge (while in mode 1, 2, or 3).

 Inadequate sub-cooling, as indicated by P-250 strip chart recorder or manual calculation and the plant in modes 1, 2, or 3.

OR 4. The following radiation monitor readings:

a) 1(2) R21 indicating 20R/hr or greater.

b) Any 2 of 4 of the following RMS channels off-scale

1(2) R2 1(2) R7 1(2) R10A 1(2) R10B

OR 5. Bither one of the following:

a) 2 out of 5 Pan Coil Unit Drainage Alarms Actuate, or indication of Containment pressure greater than 4.0 psig, (2/4)

b) Containmen, sump level greater than 81'3". There is no indication of an in-containment steam line break.

C. Containment Failure (Actual or Likely)

1. Containment H2 concentration greater than 44.

OR
7. Indication of Containment pressure greater than 47 paig and increasing. (2/4)

3. Either of the following:

a) There are less than 5 Pan Coil Units available, with no

Containment Spray train capability, or
b) There are less than 3 Pan Coil Units available, with only
1 Containment Spray train capability.

c) Indication of Containment pressure greater than 23.5 paig and increasing. (2/4)

RADIOLOGICAL: An actual Release of Radioactive material, abnormal radiation levels or indicated failure of a fission product boundary.

	INITIATING CONDITION	EMERGENCY ACTION LEVELS	ACCIDENT CLASS
11	11. (Continued) Loss of 2 or 3 fission product barriers with a potential loss of 3rd barrier, (e.g., loss of primary coolant boundary, clad failure and high potential for loss of containment).	<u>OR</u>	GE (EP 1-4)
		4. Unisolatable steam line break outside containment with indications of a primary to secondary leak.	
		<u>OR</u>	
		 Containment penetration isolation valve(s) or hatch failure as determined by EDO/SSS (Visual observation or high airborne activities around penetration or hatches). 	
12.	Exceeding primary to secondary leak rate Technical Specification or primary system leak rate Technical Specification	A. Primary to secondary leakage exceeding either of the following:	UE
		1) 1 gpm total leakage through all steam generators, or 2) 500 gallons per day through any one steam generator	(EP I-1
		B. Reactor coolant system leakage exceeding any of the following:	
		1) No pressure boundary leakage, or 2) 1 gpm Unidentified Leakage, or	
		3) 10 gpm Identified Leakage, or 4) 40 gpm Controlled Leakage with RCS at Normal Operating Pressure	
13.	Pailure of a Pressurizer Safety or Relief Valve to Reseat	A. Pressurizer pressure less than 2200 psig with POPS not armed or	ue au
		B. Pressurizer pressure less than 375 paig with POPS armed.	(EP I-1)
		AND C. Relief/Safety valve tail pipe high temperature indication or	
		D. Pressurizer Relief Tank level increasing.	
14.	. Rapid gross failure of one Steam Generator tube with loss of offsite power.	A. Reactor Trip and Safety Injection initiates on decreasing Pressurizer Pressure.	(EP I-2)
		B. Valid Radiation Monitor Alarms are received on channels R15 or R19A, B, C, or D.	
		AND C, Pressurizer pressure (after initial decrease) recovers to a pressure greater than secondary (main steam) pressure and (if required) steam line atmospheric discharges to control steam pressure.	
		D. Offsite power loss is indicated by Overhead Annunciator or meters on panel RP6 or indication of the Control Console.	

EP I-0 Part 1

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INITIATING CONDITION	EMERGENCY ACTION LEVELS	ACCIDENT CLASS
15. Rapid failure of Steam Generator tubes (e.g., several hundred gpm primary to secondary leak rate).	A. Reactor Trip and Safety Injection initiate on decreasing Pressurizer Pressure.	UE (EP I-1)
	B. Valid Radiation Monitor Alarms are received on Channels R15 or R16A, B, C, or D.	
	AND C. Pressurizer Pressure fails to recover to a pressure greater than Steam Generator Pressure.	
 Steam line break with significant (e.g., greater than 10 gpm) primary to secondary leak rate. 	A. Steam Line Isolation and Safety Injection initiated on High Steam Line Plow with either Low Tavg or Low Steam Pressure and valid Radiation Monitoring Alarms on Channels R15 or R19A, B, C, or D.	(EP 1-2)
	B. Safety Injection initiated on Steam Line High Differential Pressure and valid Radiation Monitor Alarms on R15 or R19A, B, C, or D.	
7. Primary coolant leak rate greater than 50 gpm.	A. In accordance with Technical Specification Section 3.4.6.2 Unit 1 or 3.4.7.2 Unit 2 and one charging pump is unable to maintain pressurizer	(EP I-2)
8. Known Loss of Coolant Accident greater than makeup pump capacity.	A. Low pressurizer level with level decreasing and Charging Pumps' flow at maximum.	SAE (EP I-3)
9. Rapid failure of Steam Generator tubes (several hundred gpm leakage) with loss of offsite power.	A. Reactor Trip and Safety Injection initiate on decreasing Pressurizer Pressure.	SAE (EP I-3)
	B. Valid Radiation Monitor Alarms are received on Channels R15 or R19A, B, C, or 9.	
	AND C. Pressurizer Pressure fails to recover to a pressure greater than Steam Generator Pressure.	
	D, Offsite power loss is indicated by Overhead Annunciators and/or meters on Panel RP6 and on control console.	
 Steam Line break with greater than 50 gpm primary to secondary leakage and indication of fuel damage. 	A. Steam Line Isolation and Safety Injection initiated on High Steam Line Plow with either Low Tavg or Low Steam Pressure or	SAE (EP 1-3)
	B. Safety Injection initiated on Steam Line High Differential Pressure.	

RADIOLOGICAL: An actual Release of Radioactive material, abnormal radiation levels or indicated failure of a fission product boundary.

INITIATING CONDITION	ENERGENCY ACTION LEVELS ACC	IDENT CLASS
 Steam Line break with greater than 50 gpm primary to secondary leakage and indication of fuel damage (cont.). 	AND C. Valid Radiation Monitor Alarms on Channels R15 or R19A, B, C, or D.	
	D. Unit 1 letdown monitor 1R31A in high alarm (off-scale) Unit 2 letdown monitor 2R31A in high alarm (off-scale)	
	AND E. Laboratory analysis which indicates an increase in failed fuel of 1 percent in 30 min. or a total failed fuel rate of 5 percent, or	
	1) Primary coolant sample indicates I-131 concentration greater than 300 uCi/cc.	
21. Loss of Containment Integrity resulting in a unit shutdown by Technical Specifications.	A. In accordance with Technical Specification Section 3.6.1.	(EP I-1)
 Fuel damage accident with release of radioactivity to contain- ment or fuel handling building. 	A. A valid alarm on the following Radiation Monitor	A (EP 1-2)
	1) 1(2) R5: Alarm or 2) 1(2) R9: Alarm or 3) 1(2) R29: Alarm AND	
	4) 1R41B: Alarm or 5) 1R41C: Alarm	
	B, 2 of the 4 Containment MMS Monitor	
	1) 1(2)R2: Alarm 2) 1(2)R7: Alarm 3) 1(2)R10A; Alarm 4) 1(2)R10B; Alarm	
	AND 1 1(2) R21: 1R/hr C. Verify fuel handling problem where damage to fuel may have occurred.	
23. Major damage to spent fuel in containment or fuel handling building (e.g., object damages fuel or water loss below fuel	A. A valid alarm on the following Radiation Monitor	SAE (EP I-3)
level).	1) 1(2)R5: Alarm or 2) 1(2)R9: Alarm or 3) 1(2)R29: Alarm	
	B. 2 of the 4 Containment RMS Monitor	
	1) 1(2)R2: Alarm 2) 1(2)R7: Alarm 3) 1(2)R10A: Alarm 4) 1(2)R10B: Alarm AND	
	TV 1(2)R21: 1R/hr AND C. Confirmed fuel damage or loss of water level to below fuel level.	
	C. Continued that damage of toda of paret tover to below that tover	Part

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INITIATING CONDITION	EMERGENCY ACTION LEVELS	ACCIDENT CLAS
 Manual or automatic actuation of emergency core cooling systems with a discharge to the vessel. 	A. Any limit in Technical Specification Table 3.3-3 and 3.3-4 exceeded or manual initiation has been made or	UE (EP I-1
	B. Logic lights for any single or concidence initiation lit on RP-4, Safeguards Status Display.	
	C. ESF System Actuation is verified by control console indication (flow, valve positions, tank levels, etc.) for any of the following:	
	1) Safety Injection 2) Steam Line Isolation 3) Containment Spray	
2. Uncontrolled rapid secondary depresseurization (Steam or feedwater line rupture).	A. High Steam Flow or	OE (EP J-1
	B. Abnormal increase in feedwater flow to one or two Steam generators AND C. Any of the following:	
	C. Any of the following:	
	1) Low steam generator pressure 2) Low T (average) 3) Reduced RCS pressure	
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3. Failure of a Steam Generator Safety or Atmospheric Relief Nalve to reseat.	A. Visual and/or sudible indication at the vent stacks of the open valve after pressure restored to desired level.	(EP I-1)
	B. Excess feedwater flow or steamflow for the affected generator.	
 Loss of Engineered Safety Feature function requiring shutdown by Technical Specification (because of malfunction, personnel error or procedural inadequacy). 	A. In accordance with Technical Specification Section 3.5.2	(EP I-)

OPERATIONAL: Any abnormal plant conditions, equipment failures, or combination of the two which could result in a radiological incident.

INITIATING CONDITION	EMERGENCY ACTION LEVELS	ACCIDENT CLAS
5. An event which requires initiation of unit shutdown to comply with Technical Specification Limiting Conditions for Operation.	A. In accordance with Technical Specifications.	UE 4 (EP I-1
. Complete loss of any function needed for plant cold shutdown.	A. Pailure of the RHR system to attain or maintain the primary system temperature ? as than 200°F.	(EP 1-2
	<u>OR</u>	
	B. Entry into Action Statement a. of Technical Specification 3.5.3 (Emergency Core Cooling System).	
. Complete loss of any function needed for plant hot shutdown.	A. Loss of Main and Auxiliary Feedwater.	SAE (EP I-3
마이 이 이 사람들이 가장하게 되었다고 하는 것이 되는 나를 했다.	OR .	
	B. Loss of Steam Dump system and all Steam Generator Power Operated Relief Valves and Safety Valves.	
. Total loss of offsite power or loss of onsite AC power capability.	A. Shutdown required in accordance with Technical Specification Section 3.8.1.1.a.	(EP I-1
	<u>OR</u>	
	B. Indication of the loss of 500 KV, 13 KV and 4 KV group buses on the control console, RP06 electrical display and lit overhead annunciators (Section J and K).	
	OR	
	C. Reactor Trip on "Loss of 4 KV Group Buses" (overhead annunciator P-26).	
	<u>OR</u>	
	D. Shutdown required in accordance with Technical Specification Section 3.8.1.1.b.	
	<u>OR</u>	
	E. Indication of loss of 4 KV Vital Buses on the control console and on overhead annunciators (J-17, 18, 19) with inability to energize those buses from the emergency dissels.	

EP I-0

141

OPERATIONAL: Any abnormal plant conditions, equipment failures, or combination of the two which could result in a radiological incident.

EMERGENCY ACTION LEVELS . AC	CIDENT CLASS
A. Indication of the loss of 500 KV, 13 KV, and 4 KB Group Buses on the control console, RP-6 electrical display and lit overhead annunctators (Section J and K).	(EP 1-2)
AND	
B. Indication of loss of 4 KV Vital Buses on the control console and on the overhead annunciators (J-17, 18, 19) with inability to energize those buses from the emergency diesels.	
A. Indication of the loss of 500 KV, 13 KV and 4 KV Group Buses on the control console, RP-5 electrical display and lit overhead annunciators (Section J and K) for greater than 15 minutes.	SAE (EP I-3
AND	
B. Indication of loss of 4 KV Vital Buses on the control console and on overhead annunciators (J-17, 18, 19) with inability to energize those buses from the emergency diesels for greater than 15 minutes.	
A. Loss of 500 KV, 13 KV and 4 KV Group Buses, Vital Buses	GE
AND	(EP I-4
B. Inability to energize 4 KV Vital Buses from emergency diesel generators for greater than 2 hours.	
AND	
C. Flow indication for Auxiliary Feedwater System shows no flow for greater than 2 hours.	
A. Receipt of all the following valid overhead annunciator alarms; A23, A31, A39, A46 and A47.	(EP 1-2
A. Receipt of all of the following valid overhead annunciator alarme: A23, A31, A39, A46 and A47.	SAE (EP I-3
AND	
B. Inability to restore onsite DC power within 15 minutes of the occurrence.	
A. As Stated.	(EP 1-2
A. As Stated.	SAE (EP I-3
	(Section J and K). AND B. Indication of loss of 4 KV Vital Buses on the control console and on the overhead annunciators (J-17, 18, 19) with inability to energize those buses from the emergency diesels. A. Indication of the loss of 500 KV, 13 KV and 4 KV Group Buses on the control console, RP-5 electrical display and lit overhead annunciators (Section J and K) for greater than 15 minutes. AND B. Indication of loss of 4 KV Vital Buses on the control console and on overhead annunciators (J-17, 18, 19) with inability to energize those buses from the emergency diesels for greater than 15 minutes. A. Loss of 500 KV, 13 KV and 4 KV Group Buses, Vital Buses AND B. Inability to energize 4 KV Vital Buses from emergency diesel generators for greater than 2 hours. AND C. Flow indication for Auxiliary Feedwater System shows no flow for greater than 2 hours. A. Receipt of all the following valid overhead annunciator alarms: A23, A31, A39, A46 and A47. A. Receipt of all of the following valid overhead annunciator alarms: A23, A31, A39, A46 and A47. A. Receipt of all of the following valid overhead annunciator alarms: A23, A31, A39, A46 and A47. A. Receipt of all of the following valid overhead annunciator alarms: A23, A31, A39, A46 and A47. A. Receipt of all of the following valid overhead annunciator alarms: A23, A31, A39, A46 and A47. A. Receipt of all of the following valid overhead annunciator alarms: A23, A31, A39, A46 and A47. AND B. Inability to restore onsite DC power within 15 minutes of the occurrence. A. As Stated,

ACCIDENT CLASSIFICATION GUIDE				
OPERATIONAL: Any abnormal plant conditions, equipment failures, or combination of the two which could result in a radiological incident.				
	INITIATING CONDITION	EMERGENCY ACTION LEVELS	ACCIDENT CLASS	
16.	Failure of the Reactor Protection System to initiate and complete a trip which brings the reactor subcritical.	A. Receipt of Reactor Protection Logic input (see Technical Specification Table 2.2-1) as displayed on panel RP-4.	(EP 1-2)	
		AND		
		B. Not all Rod Bottom lights lit or Nuclear Instrumentation indicates reactor not subcritical.		
	Failure of the Reactor Protection System to automatically, or through control operation action, manually initiate and complete trip which brings and maintains the reactor subcritical.	A. Receipt of Reactor Protection Logic (see Technical Specification Table 2.2-1) as on panel RP-4.	SAR (EP 1-3)	
	tity which brings and maricalis the reactor aubtrities.	AND		
		B. All Rod Bottom lights not lit or Nuclear Instrumentation indicates reactor not subcritical.		
		AND		
		C. No boration capabilities.		
	Evacuation of Control Room anticipated or required with control of shutdown systems established from local stations.	A. As Stated.	(EP 1-2)	
9.	Evacuation of Control Room and control of shutdown systems not established from local stations in 15 minutes.	A. As Stated	SAE (EP I-3	
٥,	Transient initiated by loss of Feedwater and Condensate Systems	A. Reactor trip on low feedwater flow;		
	followed by failure of Auxiliary Feedwater Systems for extended period and core melting possible in several hours.	AND		
		B. Decreasing wide-range steam generators; toward off-scale low on all steam generators;		
		AND		
		C. 1) Auxiliary feedwater flow indicators indicate zero flow 2 minutes after required; or		
		2) Control Console indication of turbine and motor driven Auxiliary Peedwater pumps indicates pumps not running 2 minutes after required;		
		AND		
		D. Auxiliary Feedwater cannot be restored within 30 minutes.		
1.	Transient requiring operation of shutdown systems with failure	A. Reactor remains critical or returns to criticality after trip.	GE	
	to scram which results incore damage or additional failure of core cooling and makeup systems (which could lead to core melt).	AND E. 1) Flow indicators on safety injection systems and RHR systems show zero flow with safety injection initiated; or 2) Status lights show safety injection systems and RHR pumps not	(EP I-4	
		running with safety injection initiated.		

EP I-0

FIRE/NATURAL/SECURITY: Any fire, natural phenomena, or security event affecting the operability of structures or equipment which could leak to a radiological incident.

INITIATING CONDITION	EMERGENCY ACTION LEVELB	ACCIDENT CLAS
. Fire lasting greater than 10 minutes that affects plant operation (e.g., causes a reduction in power or a mode change).	A. Observation of a fire lasting greater than 10 minutes that affects plant operation.	UE (EP I-1
	<u>CR</u>	
	B. Fire alarm received and confirming observation of a fire lasting greater than 10 minutes that affects plant operation.	
. Fire potentially affecting safety systems.	A. Observations of a fire in one of the following areas potentially affecting a safety system:	(EP 1-2
	1) Containment or 2) Control Room or 3) Relay Room or 4) Protection Racks or 5) Auxiliary Building or 6) Service Water Structure or 7) Penetration Areas or 8) Fuel Handling BuildIng	
	<u>OR</u>	
	B. Observation of a fire that, in the judgment of the Senior Shift Suervisor/EDO, could affect a safety system.	
. Fire compromising the function of safety systems.	A. Observation of a fire in one of the following areas that has affected a safety system;	SAE (EP I-)
	1) Containment or 2) Control Room or 3) Relay Room or 4) Protection Racks or 5) Auxiliary Building or 6) Service Water Structure or 7) Penetration Areas or 8) Fuel Handling Building	
	<u>OR</u>	
	B. Observation of a fire than, in judgment of the Senior Shift Supervisor/ EDO has affected a safety system.	
. Security Incident		
A. Substantiated Security Threat, attempted entry or attempted sabotage.	A. Implementation of Security Procedures, Section 5.3, event (5), (6) or (8)	. (EP I-1
B. Ongoing Security Compromise.	B. Ongoing Security event, Security Procedure, Section 5.3, events (5), (6), or (8).	(EP 1-2

FIRE/NATURAL/SECURITY: Any fire, natural phenomena, or security event affecting the operability of structures or equipment which could leak to a radiological incident.

abhutdown panel or vital areas), Security Procedures, Section 5.3, evence (8) or (8). D. Ongoing Security Compromise resulting in the loss of physical control of the control of the plant. D. Ongoing Security event which results in loss of physical control of the plant (physical attack with occupancy of the Control Boom, hot shutdown panel or other vital areas of the plant), Security Procedures, Section 5.3, events (6) or (8). S. Natural phenomena being experienced or projected beyond usual events. A. Any earthquake felt in-plant or detected on station seismic instrumentation. A. Any earthquake felt in-plant or detected on station seismic instrumentation. A. Any earthquake felt in-plant or detected on station seismic instrumentation is activated (0,02g), as indicated by all of the following: I) Seismic Monitor Alarm (overhead annunciator 843) actuates in unit No. 1 Control Boom and 2) Observation that seismic monitoring is recording and 3) Verification of seismic distubance by calling the National Earthquake Information Center at (301) 24-3994. B. Unusual flood or low water levels. B. Tide level recorder indicates 97.5 ft. (PSE4G DATUM) for flood, or 83.1 ft. (FF I-1) (FF	INITIATING CONDITION	EMERGENCY ACTION LEVELS	ACCIDENT CLASS
the plant (physical control of the plant. the plant (physical attack with occupancy of the Control Boom, hot shuddown panel or vital areas). Security Procedures, Section 5.3, events (6) or (8). D. Ongoing Security Compromise resulting in the loss of physical Control of the plant. D. Ongoing Security event which results in loss of physical control of the plant (physical attack with occupancy of the Control Boom, hot shuddown panel or other vital areas of the plant). Security Procedures, Section 5.3, events (6) or (8). 5. Natural phenomena being experienced or projected beyond usual events. A. Any carthquake felt in-plant or detected on station seismic instrumentation. A. Any carthquake felt in-plant or detected on station seismic instrumentation. A. Seismic monitoring instrumentation is activated (0,02y), as indicated by ell of the following: (EP 1-1) 1) Seismic Monitor Alarm (overhead annunciator B43) actuates in unit Mo. 1 Control Boom and 2) Observation that seismic monitoring is recording and 3) Verification of seismic disturbance by calling the National Earthquake Information of the plant (page 4) and page 4 and page 5 and	4. Security Incident (continued)		
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A. Any earthquake felt in-plant or detected on station seismic instrumentation. A. Any earthquake felt in-plant or detected on station seismic instrumentation. 1) Seismic Monitor Alarm (overhead annunciator B43) actuates in Unit No. 1 Control Room and 2) Observation that seismic monitoring is recording and 3) Verification of seismic disturbance by calling the National Earthquake Information Center at (303) 234-3994. B. Unusual flood or low water levels. B. Unusual flood or low water levels. C. Any tornado on site. C. Tornado funnel observed within the minimum exclusion area. D. Any hurricane or unusual wind conditions. D. Sustained winds in excess of 90 mph, as indicated by any of the following Meteorological instrumentations 1) Nominal Elev. 13 ft. channel for wind speed or 2) Nominal Elev. 13 ft. channel for wind speed or 3) Nominal Elev. 150 ft. c		plant (physical attack with occupancy of the Control Room, hot shutdown panel or other vital areas of the plant), Security Procedures, Section 5.3	(EP I-4
all of the following: 1) Seismic Monitor Alarm (overhead annunciator B43) actuates in Unit No. 1 Control Room and 2) Observation that seismic monitoring is recording and 3) Verification of seismic distubance by calling the National Earthquake Information Center at (303) 234-3994. 3) Verification of seismic distubance by calling the National Earthquake Information Center at (303) 234-3994. 4) Possess of Seismic Monitoring and Seismic Monitoring and Seismic Monitoring and Seismic Monitoring Seismic Seismic Monitoring Seismic Monitoring Seismic Monitoring Seismic Seismic Monitoring Seismic Seismic Monitoring Seismic Seismic Seismic Monitoring Seismic Seis			
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3) Verification of seismic distubance by calling the National Parthquake Information Center at (303) 234-3994. B. Unusual flood or low water levels. B. Tide level recorder indicates 97.5 ft. (PSE4G DATUM) for flood, or 83.1 ft. (PSE4G DATUM) for low water. C. Any tornado on site. C. Tornado funnel observed within the minimum exclusion area. D. Any hurricane or unusual wind conditions. D. Sustained winds in excess of 90 mph, as indicated by any of the following (EP I-1) (10 multiple of the following (EP I-2) (10 mu	그리다 하는 그리는 그렇게 되었다면 하는데 하는데 하는데 하는데 하는데 하는데 되었다.		
B. Unusual flood or low water levels. B. Unusual flood or low water levels. B. Tide level recorder indicates 97.5 ft. (PSE4G DATUM) for flood, or 83.1 ft. (EP I-1) C. Any tornado on site. C. Tornado funnel observed within the minimum exclusion area. UE (EP I-1) D. Any hurricane or unusual wind conditions. D. Sustained winds in excess of 90 mph, as indicated by any of the following water or low water near design levels. A. Earthquake greater than OBE levels. A. Seismic Monitoring Equipment (strip-chart) indiated (0.1g) or greater and verification of a seismic disturbance by calling the Natural Parthquake Information Center at (303) 234-3994. B. Flood or low water near design levels. C. Any tornado striking facility. C. Tornado funnel observed within the Security Boundary. A A		2) Observation that seismic monitoring is recording and	
B. Unusual flood or low water levels. B. Tide level recorder indicates 97.5 ft. (PSELG DATUM) for flood, or 83.1 ft. (PSELG DATUM) for low water. C. Any tornado on site. C. Tornado funnel observed within the minimum exclusion area. UE (EP I-1) D. Any hurricane or unusual wind conditions. D. Sustained winds in excess of 90 mph, as indicated by any of the following Metéorological Instrumentation: 1) Nominal Elev. 33 ft. channel for wind speed or 2) Nominal Elev. 150 ft. channel for wind speed or 3) Nominal Elev. 300 ft. channel for wind speed 6. Severe natural phenomena being experienced or projected. A. Earthquake greater than OBE levels. A. Seismic Monitoring Equipment (strip-chart) indiated (0.1g) or greater and verification of a seismic disturbance by calling the Natural Earthquake Information Center at (103) 234-3994, B. Flood or low water near design levels. B. Tide level recorder indicates 99.0 ft. (PSELG DATUM) for floods, or A 1.0 ft. (PSELG DATUM) for low water. C. Any tornado striking facility. A A	· 경기 :	 Verification of seismic distubance by calling the National Earthquake Information Center at (303) 234-3994. 	
D. Any hurricane or unusual wind conditions. D. Sustained winds in excess of 90 mph, as indicated by any of the following (EP I-1) UE (EP I-1) Nominal Elev. 33 ft. channel for wind speed or 2) Nominal Elev. 150 ft. channel for wind speed or 3) Nominal Elev. 300 ft. channel for wind speed 6. Severe natural phenomena being experienced or projected. A. Earthquake greater than OBE levels. A. Seismic Monitoring Equipment (strip-chart) indiated (0.1g) or greater and verification of a seismic disturbance by calling the Natural (EP I-2) (EATTHQUAKE Information Center at (303) 234-3994. B. Flood or low water near design levels. B. Tide level recorder indicates 99.0 ft. (PSEEG DATUM) for floods, or 81.0 ft. (PSEEG DATUM) for low water. C. Any tornado striking facility. C. Tornado funnel observed within the Security Boundary. A	B. Unusual flood or low water levels.	B. Tide level recorder indicates 97.5 ft. (PSESG DATUM) for flood, or 83.1 f (PSESG DATUM) for low water.	t. UE (EP I-1)
D. Any hurricane or unusual wind conditions. D. Sustained winds in excess of 90 mph, as indicated by any of the following Metéorological Instrumentation: 1) Nominal Elev. 33 ft. channel for wind speed or 2) Nominal Elev. 150 ft. channel for wind speed or 3) Nominal Elev. 300 ft. channel for wind speed 6. Severe natural phenomena being experienced or projected. A. Earthquake greater than OBE levels. A. Seismic Monitoring Equipment (strip-chart) indiated (0.1g) or greater and verification of a seismic disturbance by calling the Natural (EP I-2) Earthquake Information Center at (303) 234-3994. B. Flood or low water near design levels. B. Tide level recorder indicates 99.0 ft. (PSE4G DATUM) for floods, or 81.0 ft. (PSE4G DATUM) for low water. C. Any tornado striking facility. C. Tornado funnel observed within the Security Boundary. A	C. Any tornado on site.	C. Tornado funnel observed within the minimum exclusion area.	The second secon
2) Nominal Elev. 150 ft. channel for wind speed or 3) Nominal Elev. 300 ft. channel for wind speed 6. Severe natural phenomena being experienced or projected. A. Earthquake greater than OBE levels. A. Seismic Monitoring Equipment (strip-chart) indiated (0.1g) or greater and verification of a seismic disturbance by calling the Natural Earthquake Information Center at (303) 234-3994. B. Flood or low water near design levels. B. Tide level recorder indicates 99.0 ft. (PSEEG DATUM) for floods, or 81.0 ft. (PSEEG DATUM) for low water. C. Any tornado striking facility. C. Tornado funnel observed within the Security Boundary. A	D. Any hurricane or unusual wind conditions.	D. Sustained winds in excess of 90 mph, as indicated by any of the following Meteorological Instrumentation:	(EP I-1) UÉ (EP I-1)
A. Earthquake greater than OBE levels. A. Seismic Monitoring Equipment (strip-chart) indiated (0.1g) or greater and verification of a seismic disturbance by calling the Natural Earthquake Information Center at (303) 234-3994. B. Flood or low water near design levels. B. Tide level recorder indicates 99.0 ft. (PSELG DATUM) for floods, or 81.0 ft. (PSELG DATUM) for low water. C. Any tornado striking facility. C. Tornado funnel observed within the Security Boundary.		2) Nominal Elev. 150 ft. channel for wind speed or	
B. Flood or low water near design levels. B. Tide level recorder indicates 99.0 ft. (PSELG DATUM) for floods, or 81.0 ft. (PSELG DATUM) for low water. C. Any tornado striking facility. (EP 1-2) A (EP 1-2) C. Tornado funnel observed within the Security Boundary.	6. Severe natural phenomena being experienced or projected.		
C. Any tornado striking facility. 81.0 ft, (PSESG DATUM) for low water. (EP I-2) C, Tornado funnel observed within the Security Boundary.	A. Earthquake greater than OBE levels.	and verification of a seismic disturbance by calling the Natural	(EP I-2)
of the formation with the formation in t	B. Flood or low water near design levels.	B. Tide level recorder indicates 99.0 ft. (PSELG DATUM) for floods, or 81.0 ft. (PSELG DATUM) for low water.	(EP 1-2)
	C. Any tornado striking facility.	C. Tornado funnel observed within the Security Boundary.	

SAE

(EP I-3)

SAE

(EP I-3)

- D. Any hurricane or unusual wind conditions.
- Severe natural phenomena being experienced or projected that complomises the functions of safety systems.
 - A. Earthquake greater than DBE levels.
 - C. Any tornado on site affecting safety structures.

D. Any hurricane or unusual wind conditions.

D. Sustained winds of 95 mph, as indicated by any of the following

Meteorological Instrumentation:

(EP I-2)

EMERGENCY ACTION LEVELS

- 1) Elev. 33 ft. channel for wind speed or
- 2) Elev. 150 ft. channel for wind speed or
- 3) Elev. 300 ft. channel for wind speed
- A. Seismic Monitoring Equipment (strip-chart) indicates (0.2g) or greater and verification of a Seismic Disturbance by calling the (EP I-3)

 National Earthquake Information Center at (303) 234-3994.
- B. Tide level recorder indicates 100.5 ft. (PSE&G DATUM) for flood, SAE or 78.4 ft. (PSE&G DATUM) for low water. (EP I-3)
- C. Tornado funnel on site impacting the following:
 - 1) Turbine Building or
 - 2) Service Building or
 - 3) Auxiliary Building or
 - 4) Containment Building or 5) Service Water Intake Structure or
 - 6) RWST or PWST or AFWST or 7) Fuel Handling Building
- D. Sustained winds in excess of 100 mph as indicated by the following Meteorological Instrumentation:
 - 1) Elevation 33 ft. wind speed or
 - 2) Elevation 150 ft. wind speed or 3) Elevation 300 ft. wind speed

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MISCELLANEOUS: Any event not addressed in the radiological, operational, or fire/security module which could lead to radiological incident or require offiste notification.

INITIATING CONDITION	EMERGENCY ACTION LEVELS	ACCIDENT CLASS
Aircraft Crash Occurrings		
A. Near Site	A. Aircraft crash within the minimum exclusion area or a crash affecting one of the 500 KV transmission lines.	UE (EP I-1
B. On Site	B. Aircraft crash within the security boundary.	
C. Onsite affecting plant structures	C. Aircraft crash causing damage or fire in:	(EP I-2 SAE (EP I-3
	1) Turbine Building or 2) Service Building or 3) Auxiliary Building or 4) Containment Building or 5) Service Water Intake Structure or 6) RWST or PWST or AFWST or 7) Fuel Handling Building	
Onsite Toxic Flammable Gases:		
A. A release which threatens onsite personnel.	A. Observation of a release or warning from offsite.	UE
B. A release which enters vital areas.	B. Observation or measurment of gases which exceed flammability or toxicity levels after entering the Control Room or Auxiliary Building ventilation system.	(EP I-1 A (EP I-2
C. A release which enters vital areas compromising the functions of safety systems.	C. Detonation or combustion of a flammable gas in one of the areas actually affecting a safety system.	SAE (EP I-3
	1) Containment or 2) Control Room or 3) Relay Poom or 4) Protection Racks or 5) Auxiliary Building or 6) Penetration Areas or 7) Service Water Intake Structure or	
	8) Fuel Handling Building	
Turbine generator failure causing an outer casing penetration.	A. Turbine trip and observation of penetrations through the outer casing.	OB
Missile impact onsite resulting in structural damage.	A. Observation of an impact causing severe structural damage to a building within the security boundary,	(EP I-1) A (EP I-2)

INITIATING CONDITION	EMERGENCY ACTION LEVELS	ACCIDENT CLASS
5. Hissile impact onsite resulting in damage to a vital structure.	A. Observation of an impact causing structural damage to the following:	SAE
	1) Turbine Building or	(EP I-3
	2) Service Building or	
	3) Auxiliary Building or	
	4) Containment Building or	
	5) Service Water Intake Structure or	
[1] 20 [18] [18] [18] [18] [19] [19] [19] [19] [19] [19] [19] [19	6) RWST OF PWST OF AFWST OF	
	7) Fuel Handling Building	
6. Explosion within the security boundary excluding planned activities.		
A. An explosion which affects plant operations (e.g., causes	A. Observation of an explosion or its consequences.	UE
a reduction in power or mode).		(EP I-1
B. An explosion which potentially affects a safety system,	B. An explosion in one of the following areas potentially affecting a	
	safety system.	(EP 1-2
	I) Containment or	
	2) Control Room or	
	3) relay Room or	
	4) Protection Racks or	
	5) Auxiliary Building or	
이 그들은 이 아이를 가지 않는데 나는 아이를 내려가 되었다. 그들은 사람들은 사람들은 사람들은 사람들은 사람들이 되었다.	6) Penetration Areas or	
	7) Service Water Intake Structure	
C. An explosion compromising the functions of safety systems.	C. An explosion in one of the following areas that has affected a safety	SAE
	system.	(EP I-3
	1) Containment or	
	2) Control Room or	
	3) Relay Room or	
	· 4) Protection Racks or	
	5) Auxiliary Building or	
	6) Penetration Areas or	
	7) Service Water Intake Structure or	
	8) Fuel Handling Building	
7. Other Plant conditions exist that warrant increased awareness on the part of State and local offsite authorities.	A. As judged by the Senior Shift Supervisor/EDG.	(EP I-1)
8. Other Plant conditions exist that warrant precautionary activation of Technical Support Center.	A. As judged by the Senior Shift Supervisor/EDO.	(EP I-2

MISCELLANEOUS: Any event not addressed in the radiological, operational, or fire/security module which could lead to radiological incident or require offiste notification.

	INITIATING CONDITION	EMERGENCY ACTION LEVELS	ACCIDENT CLASS
9.	Other Plant conditions exist that warrant precautionary activation of the Technical Support Center and the Emergency Operations Facility and/or notification to the general public.	A. As judged by the Senior Shift Supervisor/EDO.	SAE (EP I-3)
10.	Any seriously injured and contaminated person requiring off-site medical treatment and off-site decontamination.	A. As judged by the Senior Shift Supervisor/EDO.	UE (EP I-1)
11.	Any of the following items which require notification in accordance with letters of agreement.		
	A. Any unit startup or a unit trip (planned/unplanned) from greater than 20% turbine power.	A. As judged by the Senior Shift Supervisor/EDO.	(EP I-1)
	B. Any event requiring a press release be prepared.	B. As judged by the Public Affairs Manager - Nuclear/Designee	UE
	C. Unusually large fish kills, large movement of equipment or personnel which could significantly affect local traffic pattern.	C. As judged by the Senior Shift Supervisor/EDO.	(EP I-1)
	D. Significant increase in noise levels stream release on site alarm or sirens which might be heard off-site.	D. As judged by the Senior Shift Supervisor/EDO.	(EP I-1)
	E. Derating caused by a regulatory action.	E. As stated.	UE (EP 1-1)

Rev

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EMERGENCY PROCEDURE EP I-1 NOTIFICATION OF UNUSUAL EVENT/SIGNIFICANT EVENT

ACTION STATEMENTS - SECTION I - EMERGENCY COORDINATOR Initials

Initials		
		The Senior Shift Supervisor shall:
,	,	Determine classification of the event to be an Unusual
	1.	2015년 120 120 120 120 120 120 120 120 120 120
		Event as defined by EP I-0; or a Significant Event as
		defined by Attachment 4 of this procedure.
		그렇게 되었다. 내내 지내 사람들은 가장 하면 가면 하는 것 같아 된 동안 되었다. 나는 이 사람들이 되었다.
		EP I-0 Part, No
		and/or Significant Event No.
	2.	Assume the responsibilities of the Emergency Coordinator.
		(see page 4 for responsibilities)
		어느 사람들이 얼마나 살아 있는 것이 없었다. 그는 그 사람들은 사람들이 살아 있다면 가는 것이다.
	3.	Fill in data on the Initial Contact Message Form (Figure
		8) - Attachment 2 to this procedure.
	4.	Direct that the Station Status Check List (Figure 9) -
		Attachment 3 to this procedure be completed (to the
		extent possible at this time) and given to the Designated
		Communicator.
	5.	Direct the Designated Communicator to make notifications
		of Attachment 1 to this procedure within the time limits
		listed and maintain communications with the NRC Operations
		하면 하면 사람들은 사람들은 사람들은 아이들은 아이들이 아니는 아이들이 되었다면 하는데 하면 하는데 아니는데 아이들이 아니는데 아니는데 아니는데 아니는데 아니는데 아니는데 아니는데 아니는데
		Center when directed to do so by the NRC duty officer.
	6.	Direct the communicator to respond to calls from State or
		local officials by providing the information on the
		Station Status Check List or Press Release received from

Status Checklist.

the Public Affairs Manager - Nuclear and have the name and affiliation of the person calling recorded on the Station

ACTION STATEMENTS

- Direct the Communicator to refer requests for information from other agencies to the Public Affairs Manager -Nuclear.
- 8. Refer to EP I-7, "Station Fire," to conduct fire fighting actions. If outside assistance is required, have the Salem Fire Dispatcher called. Give the location, type of fire, and where vehicles will be met by Security personnel to communicator.
- 9. If this is a security event, coordinate with the Security Lieutenant to implement the Contingency Plan and Procedures.
- 10. Transfer the Emergency Coordinator responsibilities to the Emergency Duty Officer, when available.
- 11. Forward all completed forms to the Senior Operating Supervisor. Attach any other completed EP's or attachments used.

ACTION STATEMENTS - SECTION II - COMMUNICATOR

The Designated Communicator shall:

- 1. When directed by the Senior Shift Supervisor/EDO use the data provided on the Initial Contact Message Form to notify persons listed on the Communications Log within the time limits specified on Attachment 1.
- 2. Upon receipt of a phone call from the New Jersey Bureau of Radiation Protection (BRP) or Delaware Division of Emergency Planning and Operations (DEPO) do the following:
 - a) Provide the Station Status Checklist (Figure 9) -Attachment 2 to this procedure - at current level of completion.

- 3. When directed by the Senior Shift Supervisor/EDO contact the Salem Fire Dispatcher and provide the following message:
 - a) This is the Communicator at Salem Generating Station. This is a notification of a fire.
 - b) We request fire company support.
 - c) The type of fire is _____.
 - d) The location of the fire is_____
 - e) The fire truck(s) will be met at ______ and directed to the location of the fire by our security force.

Notify security (ext. of location where fire truck(s) should be met and type of fire.

ACTION LEVEL

Whenever an action level listed in EP I-O as an Unusual Event has been reached, notification of an Unusual Event will be made to offsite authorities and designated personnel within the time limits listed in Attachment 1.

Whenever an action level described as a Significant Event (Attachment 4) is reached, notification of a Significant Event will be made to offsite authorities and designated personnel within the time limits listed in Attachment 1.

NOTE

Notification shall be reperformed for additional events, as defined in EP I-O or Attachment 4 to this procedure.

An Event which satisfies both the definition of an Unusual Event and a Significant Event shall be classified as an Unusual Event.

LIMITS ON AUTHORITY

The person acting as the Emergency Coordinator (Senior Shift. Supervisor, Emergency Duty Officer, or Emergency Response Manager) has the authority and responsibility to immediately and unilaterally initiate any emergency action including the decision to notify and provide protective action recommendations to authorities responsible for implementing off site emergency measures.

ATTACHMENTS

Attachment 1 - Communications Log (Figure 7)

Attachment 2 - Initial Contact Message Form (Figure 8)

Attachment 3 - Station Status Checklist (Figure 9)

Attachment 4 - Significant Event Classification

Prepared By:	C. Burge	
Reviewed By:	Department/Head	12/6/82 Date
Reviewed By:	Nuclear Emergency Planning Engineer	12/16/92 Date
Reviewed By:	Station Quality Assurance Review	1/6/83 Date
	(if required see EP VI-2)	
SORC Meeting	Number: 83-03	1 13 83 Date
Approved By:	General Manager - Salem Operations	///4/83 Date
Approved By:	CITW!	1/11/83

TIME LIMIT IN		IRED T CL			PERSON TO BE CONTACTED	PERSON CONTACTED	DATE/ TIME	CONTACTED
MINUTES)	UE/SE	A	SAE	GE	CONTROLLO	CONTACTED	TIFE	B1
15	YES	YES	YES	YES	Primary: EDO (Contact One) L. Pry Office: Car: Beeper: Home: J. Gueller Office: Car: NA; Beeper: Home:			
15	YES	YES	YES	YES .	Secondary: TSS (Contact One) L. Miller Office: Car: Beeper: Home:, L. Catalfomo Office: Car: NA; Beeper: Home:			
15	YES	YES	YES	YES	NEW JERSEY Primary: Secondary:			
15	YES	YES	YES	YES	DELAWARE Primary: Secondary:			
15	NO	NO	NO	YES	Salem County Primary: (Direct Line) Secondary:			
15	МО	NO	NO	YES	Cumberland County Primary: (Direct Line) Secondary:		Ÿ	
15	NO	NO	NO	YES	New Castle County Primary: (Direct Line) Secondary:		.\.	
15	NO	NO	NO 1	YES	Kent County Primary: (Direct Line) Secondary:			
15	ио	NO	NO	YES	U. S. Coast Guard Primary:			

(Figure 7) 6 of 13

			COMMONIC	CALIONS	100			Attachm	ent 1
CONTACTED									
DATE/ TIME									
PERSON									
PERSON TO BE CONTACTED		General Manager - Salem Operations (Contact One) H. Midura Office: Beeper: J. Driscoll Office: (Asst. CM) Beeper: R. A. Uderitz Office: (VP - Nuclear) Beeper: N/A Home:	R. Silverio Office: Car: NA; R. Silverio Office: Home: W. Denman Office: Gar: NA, Beeper: NA: Home:	Security-Site (Shift Lieutenant) Primary: Secondary:	S Security-Hope Creek Hope Creek Project Union Security	Second Sun Visitor's Center Primary: Secondary:	S LAC Township Primary: (Direct Line) Secondary:	S NRC Primary: (ENS) Secondary: or	S NRC Resident (Contact One) L. Norrholm - Office: Home: B. Summer - Office: , Home:
REQUIRED FOR EVENT CLASS	GE	YES	YES	YES	YES	YES	YES	YES	YES
	SAE	YES	YES	YES	YES	YES	YES	YES	YES
	4	YES	YES	YES	YES	YES	YES	YES	YES
REQUI	UE/SE	YES	YES	NO	YES	NO	YES	YES	YES
TIME	TES)	30	30	30	09	09	09	09	0.9

AFTACHMENT 1
LOG

EP I-1 Attachment I

TIME \ LIMIT.	REQUIRED FOR EVENT CLASS			PERSON TO BE CONTACTED	PERSON	DATE/	CONTACTED	
(MINUTES)	UE/SE	A	SAE	GE	CONTACTED	CONTACTED	TIME	ВУ
90	YES	YES	YES	YES	New Jersey DOF Primary: Secondary: See Addendum 1			
90	YES	YES	YES	YES	New Jersey BPU Primary: Secondary:			
90	NO	YES	YES	YES	American Nuclear Insurers Primary:		V	

(Figure 7

ATTACHMENT 2 INITIAL CONTACT MESSAGE FORM

DIRECTIONS FOR COMMUNICATOR

NOTE: In the event of a test, drill or exercise, preface and conthe phrase "THIS IS A DRILL, THIS IS A DRILL".	mplete each message with
SECTION I (Provide to all)	
THIS IS,	
(NAME) (TITLE)	
SALEM NUCLEAR GENERATING STATION, UNIT NO.	
THIS IS A NOTIFICATION OF:	
a SIGNIFICANT EVENT	
an UNUSUAL EVENT a SITE AREA EMERGENCY	
an ALERT a GENERAL EMERGENCY	
THIS EVENT OCCURRED AT ON (DATE)	
THERE IS NO RELEASE IN PROGRESS.	
WE HAVE A NORMAL RELEASE IN PROGRESS.	
WE HAVE AN UNCONTROLLED RELEASE IN PROGRESS.	
SECTION II (Provide to New Jersey and Delaware Only)	
NO PROTECTIVE ACTIONS ARE RECOMMENDED AT THIS TIME	
WE RECOMMEND SHELTERING FOR THE FOLLOWING SECTOR(S)	(Distance-Miles)
WE RECOMMEND EVACUATION FOR THE FOLLOWING SECTOR(S)	,
and the order of the following shorok(s)	(Distance-Miles)
SECTION III (Provide to PSE&G personnel only)	
DESCRIPTION OF EVENT	

ATTACHMENT 3 STATION STATUS CHECK LIST

Salem Generating Station Unit No.	
Transmitted By: Name	Position:
 Date and Time of Incident: Date	gnificant Event Unusual Event
3. Cause of Incident:	
Primary Initiating Condition used EPI-0 Part , Number Significant Event No. Description of the incident	and/or .
	Tripped
5. Pressurizer Pressure psig	, Core Exit TC °F
6. Is offsite power available?	YES NO
7. Are two or more diesel generators	operable? YES NO
8. Did the emergency safeguards syst	tem activate? YES NO
.9. Has the containment been isolated	17 YES NO
10. Other pertinent information	

	Stat	tion Status Checklist - Radiological Information	on
11.	Gase	eous Release:	
	(A)	Release Terminated:	
	(B)	Anticipated or Known Duration of Release	Hours
	(C)	Type of Release: GROUND ELEVAN	red
	(D)	Wind Speed: MPH Wind Direction: (Toward) Divide by 2 to get M/Sec' (From) Delta Temp:	(Compass Points)
	(E)	Stability Class: Unstable Neutral	☐ Stable
	(F)	Release Rate Iodine Ci/S	Sec.
	(G)	Release Rate Noble Gas: Ci	L/Sec.
12.	Liqu	uid Release:	
	(A)	Release Terminated:	
	(B)	Anticipated or Known Duration of Release	Hours
	(C)	Estimated Concentration	pico Curies/Liter
	(D)	Release RateLi	ters/Hour
13.	Proj	jected Off-site Dose Rates (As Soon As Data Is	Available):
		Adult	
	Dist	tance (miles) Whole Body (mrem/hr) Child Th	yroid (mrem/hr)
	-		
	_		
	_		
14.	15 n	minute updates to States: Time	Initials
		State of New Jersey State of Delaware	
	1	State of Delaware	
		Others	
		Name	
		Agency	
		Name	
		Agency	

(Figure 9) 11 of 13

ATTACHMENT 4 SIGNIFICANT EVENT CLASSIFICATION

DIRECTIONS

The Emergency Coordinator shall review the initiating conditions listed below to determine if significant event notification is required. Notification shall be made as indicated in Attachment 1 to this procedure.

SIGNIFICANT EVENT INITIATING CONDITIONS

 Any event requiring initiating any section(s) of the Station Emergency Plan Procedures, except for EP I-5, for injuries requiring less than 48 hour hospital stay. As evaluated by the Emergency Coordinator

- Any accidental, unplanned, or uncontrolled radioactive release. (Normal or expected releases from maintenance or other operational activities are not included.)
 - As evaluated by the Emergency Coordinator and the Radiation Protection Engineer.
- Any serious personnel radioactive contamination requiring extensive onsite decontamination or outside assistance.
- As evaluated by the Emergency Coordinator and the Radiation Protection Engineer.
- 4. Any event that results in the plant not being in a controlled or expected condition (Mode 1-6).
- As evaluated by the Emergency Coordinator.
- Union strikes affecting the availability of operating personnel or the security personnel.
- As evaluated by the Emergency Coordinator.
- 6. Any serious or fatal injury occurring on site and requiring off-site medical assistance (hospital stay greater than 48 hours).
- As evaluated by the Emergency Coordinator.
- 7. Any event involving nuclear material which has or may have:
- As evaluated by the Emergency Coordinator and the Radiation Protection Engineer
 - a) Exposure of the whole body to 25 rems or more; exposure of the skin of the whole body of 150 rems or more; or exposure of the feet, ankles, hands or forearms to 375 rems or more.

ATTACHMENT 4 SIGNIFICANT EVENT CLASSIFICATION

- b) The release of radioactive material in concentrations which, if averaged over a period of 24 hours, would exceed 5,000 times the limits specified for such materials in Appendix B, Table II of 10CFR20.
- c) A loss of one working week or more of the operation of any facilities affected.
- d) Damage to property in excess of \$200,000.
- 8. Any event involving nuclear material which has or may have:
 - a) Exposure of the whole body to 5 rems or more; exposure of the skin of the whole body to 30 rems or more; or exposure of the feet, ankles, hands, or forearms to 75 rems or more.
 - b) The release of radioactive material in concentrations which, if averaged over a period of 24 hours, would exceed 500 times the limits specified for such materials in Appendix B, Table II of 10CFR20.

As evaluated by the Emergency Coordinator and the Radiation Protection Engineer.

TIME LIMIT		IRED IT CL			PERSON TO BE		PERSON	DATE/	CONTACTED
IN (MINUTES)	UE/SE	A	SAE	GE	CONTACTED		CONTACTED	TIME	ВУ
15	YES	YES	YES	YES	Primary: EDO (Contact One) L. Fry Office: Beeper: J. Gueller Office: Beeper:	Car: Home Car: Home			
15	YES	YES	YES	YES	Secondary: TSS (Contact One) L. Miller Office: Beeper: L. Catalfomo Office: Beeper:	Car: Home: Car: NA. Home:			
15	YES	YES	YES	YES	NEW JERSEY Primary: (Direct Line) Secondary:				
15	YES	YES	YES	YES	DELAWARE Primary: (NAWAS) Secondary: 5				
15	NO	NO	NO	YES	Salem County Primary: (Direct Line) Secondary:				
15	NO	NO	NO	YES	Cumberland County Primary: (Direct Line) Secondary:				
15	NO	NO	NO	YES	New Castle County Primary: (Direct Line) Secondary:				,
15	NO	NO	NO	YES .	Kent County Primary: (Direct Line) Secondary:				
15	NO	NO	NO	YES	U. S. Coast Guard Primary:	, , , , , , , , , , , , , , , , , , ,			

COMMUNICATIONS LOG

EP Figure 7

TIME LIMIT IN		REQUIRED FOR EVENT CLASS			PERSON CONTACTED	DATE/ TIME	CONTACTED BY	
	UE/SE	A	SAE	GE	CONTACTED		1.	
30	YES	YES	YES	YES	General Manager - Salem Operations (Contact One) H. Midura Office: Beeper: Home: J. Driscoll Office: (Asst. GM) Beeper: , Home: R. A. Uderitz Office: Car: (VP - Nuclear) Beeper: N/A Home:			
30	YES	YES	YES	YES	Public Affairs Manager-Nuclear (Contact One) R. Silverio Office: Car: NA: Beeper: Home: W. Denman Office: ; Car: NA: Beeper: NA: Home:		1	
30 ,	NO	YES	YES	YES	Security-Site (Shift Lieutenant) Primary: Secondary:			
60	YES	YES	YES	YES	Security-Hope Creek Hope Creek Project Union Security			
60	NO	YES	YES	YES	Second Sun Visitor's Center Primary: Secondary:			
60	YES	YES	YES	YES	LAC Township Primary: (Direct Line) Secondary:			
60	YES	YES	YES	YES	NRC Primary: (ENS) Secondary: or			
60	YES	YES	YE	YES	NRC Resident (Contact One) L. Norrholm - Office: Home: s. Summer - Office: 'ome:			j_1

COM UNICATIONS LOG

EP Figure 7

TIME LIMIT IN	REQUIRED FOR EVENT CLASS				PERSON TO BE CONTACTED	PERSON CONTACTED	DATE/	CONTACTED
(MINUTES)	UE/SE	A	SAE	GE	CONTACTED	CONTACTED	TIME	BY .
90	YES	YES	YES		New Jersey DOR Primary: Secondary: See Addendum 1			
90	YES	YES	YES		New Jersey BPU Primary: Secondary:			
90	NO	YES	YES	YES	American Nuclear Insurers Primary:			

141

Page

Off

Figure 7

INITIAL CONTACT MESSAGE FORM

PIRECTIONS FOR COMMUNICATOR

NOTE: In the event of a test, drill or exercise, preface and comp the phrase "THIS IS A DRILL, THIS IS A DRILL".	plete each message with
SECTION I (Provide to all)	
THIS IS,	
(NAME) (TITLE)	
SALEM NUCLEAR GENERATING STATION, UNIT NO.	
THIS IS A NOTIFICATION OF:	
a SIGNIFICANT EVENT	
an UNUSUAL EVENT a SITE AREA EMERGENCY	
an ALERT a GENERAL EMERGENCY	
HIS EVENT OCCURRED AT ON (TIME - 24 HOUR CLOCK) (DATE)	
THERE IS NO RELEASE IN PROGRESS.	
WE HAVE A NORMAL RELEASE IN PROGRESS.	
WE HAVE AN UNCONTROLLED RELEASE IN PROGRESS.	
SECTION II (Provide to New Jersey and Delaware Only)	
NO PROTECTIVE ACTIONS ARE RECOMMENDED AT THIS TIME	
WE RECOMMEND SHELTERING FOR THE FOLLOWING SECTOR(S)	
	(Distance-Miles)
WE RECOMMEND EVACUATION FOR THE FOLLOWING SECTOR(S)	(Distance-Miles)
SECTION III (Provide to PSE&G personnel only) DESCRIPTION OF EVENT	

STATION STATUS CHECK LIST

Salem Generating Station Unit No.	
Transmitted By: Name	Position:
1. Date and Time of Incident: Date 2. Accident Classification: Significant Alert Site Area Emergency	Time(24 hr clock) t Event Unusual Event
Primary Initiating Condition used for dec EPI-0 Part , Number Significant Event No	and/or
하는데 그림 그에 하게 되었다. 이 보호에는 사람들 때문에 모르는 그들은 사람들이 되었다. 얼마를 받았다면	ped
5. Pressurizer Pressure psig Core 6. Is offsite power available? \(\square \) YES \(\square \)	NO
7. Are two or more diesel generators operable 8. Did the emergency safeguards system active 9. Has the containment been isolated? Types	rate? YES NO NO
10. Other pertinent information	

Station Sta	tus Checkl	ist - Radi	ological	Informati	ion	
Gaseous Rel	ease:	☐ YES	I No			
(A) Release	Terminate	d:	☐ YES	□ NO		
(B) Anticip	ated or Kn	own Durati	on of Rel	Lease		Hours
(C) Type of	Release:	☐ GF	ROUND	□ ELEVA	ATED	
Divide	by 2 to ge	t	Direction M/Sec	(From)		
(E) Stabili	ty Class:	Unsta	ble \square	Neutral	☐ Stable	
(F) Release	Rate Iodi	ne		Ci/	Sec.	
(G) Release	Rate Nobl	e Gas:			Ci/Sec.	
Liquid Rele	ase:	☐ YES	no			
(A) Release	Terminate	d: [YE3	□ NO		
(B) Anticip	ated or Kn	own Durati	on of Rel	lease		Hours
(C) Estimat	ed Concent	ration			pico Curie	s/Liter
(D) Release	Rate			I	Liters/Hour	
Projected O	ff-site Do	se Rates (As Soon A	As Data Is	Available)	
Distance (m				Child T	Chyroid (mre	m/hr)
15 minute u	pdates to	States:		Time	Initials	
		У				
State of	Delaware				-	
Others						
	Nam	е				
		Agency				
	Nam	e				-
		Agency				
	Gaseous Rel (A) Release (B) Anticip (C) Type of (D) Wind Sp Divide Delta T (E) Stabili (F) Release (G) Release Liquid Rele (A) Release (B) Anticip (C) Estimat (D) Release Projected C Distance (m	Gaseous Release: (A) Release Terminate (B) Anticipated or Kn (C) Type of Release: (D) Wind Speed:	Gaseous Release: YES (A) Release Terminated: (B) Anticipated or Known Durati (C) Type of Release: GR (D) Wind Speed: MPH Wind Divide by 2 to get Delta Temp: (E) Stability Class: Unstated (F) Release Rate Iodine (G) Release Rate Noble Gas: YES (A) Release Terminated: GR (B) Anticipated or Known Durati (C) Estimated Concentration (D) Release Rate Projected Off-site Dose Rates (Mallt Distance (miles) Whole Body (Mallt Delta) 15 minute updates to States: State of New Jersey State of Delaware Others Name Agency	Gaseous Release: YES NO (A) Release Terminated: YES (B) Anticipated or Known Duration of Rel (C) Type of Release: GROUND (D) Wind Speed: MPH Wind Direction Divide by 2 to get M/Sec Delta Temp: (E) Stability Class: Unstable (F) Release Rate Iodine (G) Release Rate Noble Gas: Liquid Release: YES NO (A) Release Terminated: YES (B) Anticipated or Known Duration of Rel (C) Estimated Concentration (D) Release Rate Projected Off-site Dose Rates (As Soon & Adult Distance (miles) Whole Body (mrem/hr) 15 minute updates to States: State of New Jersey State of Delaware Others Name Agency Name	YES	(A) Release Terminated: ☐ YES ☐ NO (B) Anticipated or Known Duration of Release (C) Type of Release: ☐ GROUND ☐ ELEVATED (D) Wind Speed: MPH Divide by 2 to get Delta Temp: Wind Direction: (Toward) (Compass (From) (Compass (From) (Compass) (E) Stability Class: ☐ Unstable ☐ Neutral ☐ Stable (F) Release Rate Iodine Ci/Sec. (G) Release Rate Noble Gas: Ci/Sec. Liquid Release: ☐ YES ☐ NO (A) Release Terminated: ☐ YES ☐ NO (B) Anticipated or Known Duration of Release ☐ Distance (C) Estimated Concentration _ pico Curie (D) Release Rate _ Liters/Hour Projected Off-site Dose Rates (As Soon As Data Is Available) Adult Distance (miles) Whole Body (mrem/hr) Child Thyroid (mremover contents) 15 minute updates to States: Time Initials State of New Jersey State of Delaware _ Agency Name _ Agency

No. 101 U.S. NRC, Dir. of NRR Washington, D.C. 20555 Mr. S.A. Varga, Chief, Oper. Reactors BR#1, Div. of Licensing

SALEM GENERATING STATION EMERGENCY PLAN EMERGENCY PLAN PROCEDURES INDEX JANUARY 20, 1983

SECTION	I - ON-SITE PROCEDURES	REV. 1
EP 1-0	Accident Classification Guide	
	Part 1 Radiological	3
	Part 2 Operational	
	Part 3 Fire/Natural/Security	
	Part 4 Miscellaneous	
	Flow Chart	
EP I-1	Notification of Unusual Event/Significant Event	0
EP I-2	Alert	3
EP I-3	Site Area Emergency	2
EP I-4	General Emergency	2
EP I-5	Personnel Emergency	2
EP I-6	Radioactive Spill	1
EP 1-7	Station Fire	1
EP I-8	Personnel Accountability	1
EP I-9	Search and Rescue Operations	1
EP I-10	Conducting an Inventory of Emergency Equipment	1
EP I-11	Communications Equipment	1
EP I-12	Site Evacuation	1
EP I-13	Post Accident Low Pressure Injection Monitoring	. 1
EP 1-14	Initiation of Recovery Operations	1
EP I-15	Stable Iodine Thyroid Blocking	1
EP I-16	Recall of Evacuated Site Personnel	1
EP I-17	Radiation Protection - Emergency Action	1
EP I-18	Operations Support Center Activation	1
EP I-19	Activation/Evacuation of the Technical Support Center	1
SECTION	II - OFF-SITE PROCEDURES	
EP II-1	Emergency Response Manager Preparation to Assume Responsibilities	1
EP II-2	Site Support Manager Preparation to Assume Responsibilities	1
EP II-3	Radiological Support Manager Preparation to Assume Responsibilities	1
EP II-4	Notification of Corporate Emergency Response Personnel	1
EP II-5	Emergency Paging of Corporate Emergency Response Personnel	1
EP II-6	Off-Site Administrative Support	1
EP II-7	Testing of Emergency Procedure EP II-4	0

SECTION	III - SECURITY EMERGENCY PROCEDURES	REV.
- EP III-1	Opening of the Technical Support Center	1
EP III-2		. 2
EP III-3		1
EP III-4		1
EP III-5		1
SECTION	IV - RADIATION PROTECTION/CHEMISTRY EMERGENCY PROCEDURES	
EP IV-10	1 TSC Initial Response	1
	2 Control Room Initial Response	1
	3 Control Point Initial Response	1
	4 TSC Evacuation	1
	5 Control Point and Equipment Evacuation	1
	6 ALARA Task Review and Emergency Exposure Authorization	
	7 Radiation Monitor Evaluation	1
	8 Protective Action Recommendations	1
		2
	9 Plume Tracking by Helicopter	1
	OA Field Monitoring by TSC	2
	OB Field Monitoring by ECF	0
	l Effluent Dose Calculations	2
	2 Emergency Operations Facility - Radiological Assessment	0
	3 Computerized Dose Calculations	2
	4 Computerized Dose Calculations on Programmable Calculator	0
	5 Personnel and Vehicle Survey	. 1
	6 Fire Brigade Escort	. 1
	7 Re-Entry Team Radiation Protection	1
	8 High Activity Sample Analysis	2
	9 Personnel Decontamination	1
EP IV-12	O Equipment Decontamination	1
EP IV-12	Containment Atmosphere Remote Sampling	1
EP IV-12:	2 Emergency Staffing Guide	1
EP IV-20	Radiation Protection Senior Supervisor Response	1
	2 Chemistry Senior Supervisor Response	1
	3 Administrative Assistant Response	1
	4 Short Term Environmental Response	1
	5 Material and Instruments Supervisor Response	1
	6 Dosimetry-Counting Room Supervisor Response	1
	7 Rad Waste Supervisor Response	,
	8 Dose Assessment - ALARA Supervisor Response	,
	9 In-Plant Supervisor Response	
	O Procedures-Training Supervisor Response	
	1 Radiation Protection Communications Guide	
	2 Radiation Protection Emergency Inventory Control	
	1 Interim Post Accident Primary Coolant Sampling	1
		2
21 17-30	2 Emergency Sampling Procedure for the Plant Vent	1

SECTION	- ENGINEERING DEPARTMENT EMERGENCE PROCEDURES	REV. NO
EP V-1	Notification of Engineering and Construction Department	0
EP V-2	Corporate Engineering Support Manager Response (CHERC)	0
EP V-3	Site Engineering Support Manager Response (EOF)	0
EP V-4	Corporate Engineering Team Leader Response (CHERC)	0
EP V-5	Corporate Quality Assurance Department Response (CHERC)	0
EP V-6	Site Quality Assurance Department Response (EOF)	0
EP V-7	Site Engineering Team Leader Response (TSC)	0
EP V-8	Methods Department & Engineering Department Divisional Representatives	
	Response (CHERC)	0
SECTION	VI - PLAN ADMINISTRATION	
EP VI-1	Revision and Approval of Plans and Procedures	1
EP VI-2	Distribution of Plans and Procedures	0
EP VI-3	Review of Plans and Procedures	0
EP VI-4	Procedures Format	0
EP VI-5	Conduct of Drills and Exercises	1
SECTION	VII - PUBLIC INFORMATION	
EP VII-1	Public Information Notification	0
EP VII-2	General Manager - Information Services Response	0
EP VII-3	. Public Information Manager Response	0
EP VII-4	Public Information Technical Liaison Response	, 0
EP VII-5	Public Information Technical Assistant Response	. 0
EP VII-6	Internal Information	0
EP VII-7	Media Relations	0
EP VII-8	Emergency News Center Activation/Pulbic Information Coordinator	
	Response	. 0
ADDENDUM		
Addendum	1 Master Phone List	3
Addendum	2 Supplemental Station Status Checklist	1
FIGURES		
Figure 1	EDO Checklist	1
Figure 2		1
Figure 3		C
Figure 4	Post Accident RMS Assessment Data	1
Figure 5	Area/Process RMS Data	0
Figure 6	Offsite Dose Summary	0

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SALEM GENERATING STATION EMERGENCY PLAN EMERGENCY PLAN PROCEDURES INDEX JANUARY 20, 1983

EP I-0 Accident Classification Guide Part 1 Radiological Part 2 Operational Part 3 Fire/Natural/Security Part 4 Miscellaneous Flow Chart EP I-1 Notification of Unusual Event/Significant Event EP I-2 Alert EP I-3 Site Area Emergency EP I-4 General Emergency EP I-5 Personnel Emergency EP I-6 Radioactive Spill EP I-7 Station Fire EP I-8 Personnel Accountability EP I-9 Search and Rescue Operations EP I-10 Conducting an Inventory of Emergency Equipment EP I-11 Communications Equipment EP I-12 Site Evacuation EP I-13 Post Accident Low Pressure Injection Monitoring EP I-14 Initiation of Recovery Operations EP I-15 Stable Icdine Thyroid Blocking EP I-16 Recall of Evacuated Site Personnel EP I-17 Radiation Protection - Emergency Action EP I-18 Operations Support Center Activation EP I-19 Activation/Evacuation of the Technical Support Center SECTION II - OFF-SITE PROCEDURES EP II-1 Radiological Support Manager Preparation to Assume Responsibilities I EP II-2 Site Support Manager Preparation to Assume Responsibilities I EP II-3 Radiological Support Manager Preparation to Assume Responsibilities I EP II-1 Radiological Support Manager Preparation to Assume Responsibilities I EP II-1 Radiological Support Manager Preparation to Assume Responsibilities I EP II-1 Radiological Support Manager Preparation to Assume Responsibilities I EP II-5 Emergency Paging of Corporate Emergency Response Personnel EP II-5 Emergency Paging of Corporate Emergency Response Personnel EP II-5 Emergency Paging of Corporate Emergency Response Personnel EP II-5 Emergency Paging of Corporate Emergency Response Personnel	SI	ECTION	I - ON-SITE PROCEDURES	REV.
Part 1 Radiological Part 2 Operational Part 3 Fire/Natural/Security Part 4 Miscellaneous Flow Chart				
Part 2 Operational Part 3 Fire/Natural/Security Part 4 Miscellaneous Flow Chart. EP I-1 Notification of Unusual Event/Significant Event	-	1-0	네가 보다 되었다며 가는데 아무리	3
Part 4 Miscellaneous Flow Chart Plow Char				
Part 4 Miscellaneous Flow Chart EP I-1 Notification of Unusual Event/Significant Event EP I-2 Alert EP I-3 Site Area Emergency EP I-4 General Emergency EP I-5 Personnel Emergency EP I-6 Radioactive Spill EP I-7 Station Fire EP I-7 Station Fire EP I-8 Personnel Accountability EP I-9 Search and Rescue Operations EP I-10 Conducting an Inventory of Emergency Equipment EP I-11 Communications Equipment EP I-12 Site Evacuation EP I-13 Post Accident Low Pressure Injection Monitoring EP I-14 Initiation of Recovery Operations EP I-15 Stable Iddine Thyroid Blocking EP I-16 Recall of Evacuated Site Personnel EP I-17 Radiation Protection - Emergency Action EP I-18 Operations Support Center Activation EP I-19 Activation/Evacuation of the Technical Support Center SECTION II - OFF-SITE PROCEDURES EP II-1 Radiological Support Manager Preparation to Assume Responsibilities I Ref II-1 Radiological Support Manager Preparation to Assume Responsibilities I Ref II-1 Radiological Support Manager Preparation to Assume Responsibilities I Ref II-1 Emergency Response Manager Preparation to Assume Responsibilities I Ref II-1 Emergency Response Emergency Response Personnel EP II-1 Emergency Paging of Corporate Emergency Response Personnel EP II-1 Emergency Paging of Corporate Emergency Response Personnel EP II-5 Emergency Paging of Corporate Emergency Response Personnel EP II-6 Off-Site Administrative Support				
Flow Chart EP I-1 Notification of Unusual Event/Significant Event EP I-2 Alert EP I-3 Site Area Emergency EP I-4 General Emergency EP I-5 Personnel Emergency EP I-6 Radioactive Spill EP I-7 Station Fire EP I-8 Personnel Accountability EP I-9 Search and Rescue Operations EP I-10 Conducting an Inventory of Emergency Equipment EP I-11 Communications Equipment EP I-12 Site Evacuation EP I-13 Post Accident Low Pressure Injection Monitoring EP I-14 Initiation of Recovery Operations EP I-15 Stable Iodine Thyroid Blocking EP I-16 Recall of Evacuated Site Personnel EP I-17 Radiation Protection - Emergency Action EP I-18 Operations Support Center Activation EP I-19 Activation/Evacuation of the Technical Support Center SECTION II - OFF-SITE PROCEDURES EP II-1 Emergency Response Manager Preparation to Assume Responsibilities I Radiological Support Manager Preparation to Assume Responsibilities I Radiological Support Manager Preparation to Assume Responsibilities I Radiological Support Manager Preparation to Assume Responsibilities I Ref II-2 Emergency Response Emergency Response Personnel EP II-3 Emergency Paging of Corporate Emergency Response Personnel EP II-5 Emergency Paging of Corporate Emergency Response Personnel EP II-6 Off-Site Administrative Support				
EP I-1 Notification of Unusual Event/Significant Event 2 EP I-2 Alert				
EP I-2 Alert			Flow Chart	0
EP I-4 General Emergency	-108		Notification of Unusual Event/Significant Event	3
EP I-4 General Emergency			Alert	2
EP I-5 Personnel Emergency			Site Area Emergency	2
EP I-5 Personnel Emergency			General Emergency	2
EP I-6 Radioactive Spill			Personnel Emergency	
EP I-7 Station Fire	EP	I-6	Radioactive Spill	1
EP I-8 Personnel Accountability EP I-9 Search and Rescue Operations EP I-10 Conducting an Inventory of Emergency Equipment EP I-11 Communications Equipment I EP I-12 Site Evacuation I EP I-13 Post Accident Low Pressure Injection Monitoring I EP I-14 Initiation of Recovery Operations I EP I-15 Stable Iodine Thyroid Blocking EP I-16 Recall of Evacuated Site Personnel EP I-17 Radiation Protection - Emergency Action EP I-18 Operations Support Center Activation EP I-19 Activation/Evacuation of the Technical Support Center SECTION II - OFF-SITE PROCEDURES EP II-1 Emergency Response Manager Preparation to Assume Responsibilities I EP II-2 Site Support Manager Preparation to Assume Responsibilities I II-3 Radiological Support Manager Preparation to Assume Responsibilities I II-4 Notification of Corporate Emergency Response Personnel EP II-5 Emergency Paging of Corporate Emergency Response Personnel EP II-5 Emergency Paging of Corporate Emergency Response Personnel EP II-6 Off-Site Administrative Support			Station Fire	1
EP I-9 Search and Rescue Operations EP I-10 Conducting an Inventory of Emergency Equipment EP I-11 Communications Equipment EP I-12 Site Evacuation I EP I-13 Post Accident Low Pressure Injection Monitoring EP I-14 Initiation of Recovery Operations EP I-15 Stable Iodine Thyroid Blocking EP I-16 Recall of Evacuated Site Personnel EP I-17 Radiation Protection - Emergency Action EP I-18 Operations Support Center Activation EP I-19 Activation/Evacuation of the Technical Support Center SECTION II - OFF-SITE PROCEDURES EP II-1 Emergency Response Manager Preparation to Assume Responsibilities I EP II-2 Site Support Manager Preparation to Assume Responsibilities I EP II-3 Radiological Support Manager Preparation to Assume Responsibilities EP II-4 Notification of Corporate Emergency Response Personnel EP II-5 Emergency Paging of Corporate Emergency Response Personnel EP II-5 Emergency Paging of Corporate Emergency Response Personnel	EP	I-8	Personnel Accountability	
EP I-10 Conducting an Inventory of Emergency Equipment EP I-11 Communications Equipment EP I-12 Site Evacuation EP I-13 Post Accident Low Pressure Injection Monitoring EP I-14 Initiation of Recovery Operations EP I-15 Stable Iodine Thyroid Blocking EP I-16 Recall of Evacuated Site Personnel EP I-17 Radiation Protection - Emergency Action EP I-18 Operations Support Center Activation EP I-19 Activation/Evacuation of the Technical Support Center 1 SECTION II - OFF-SITE PROCEDURES EP II-1 Emergency Response Manager Preparation to Assume Responsibilities 1 EP II-2 Site Support Manager Preparation to Assume Responsibilities 1 EP II-3 Radiological Support Manager Preparation to Assume Responsibilities 1 EP II-4 Notification of Corporate Emergency Response Personnel EP II-5 Emergency Paging of Corporate Emergency Response Personnel EP II-6 Off-Site Administrative Support	EP	I-9	Search and Rescue Operations	,
EP I-11 Communications Equipment	EP	I-10	Conducting an Inventory of Emergency Equipment	1
EP I-12 Site Evacuation	EP	I-11	Communications Equipment	
EP I-13 Post Accident Low Pressure Injection Monitoring	EP	I-12	Site Evacuation	
EP I-14 Initiation of Recovery Operations	EP	I-13	Post Accident Low Pressure Injection Monitoring	
EP I-15 Stable Iodine Thyroid Blocking	EP	I-14.	Initiation of Recovery Operations	
EP I-16 Recall of Evacuated Site Personnel	EP	I-15	Stable Iodine Thyroid Blocking	
EP I-17 Radiation Protection - Emergency Action	EP	I-16	Recall of Evacuated Site Personnel	
EP I-18 Operations Support Center Activation	EP	1-17	Radiation Protection - Emergency Action	
EP I-19 Activation/Evacuation of the Technical Support Center	EP	I-18 .	Operations Support Center Activation	
EP II-1 Emergency Response Manager Preparation to Assume Responsibilities	EP	I-19	Activation/Evacuation of the Technical Support Center	
EP II-1 Emergency Response Manager Preparation to Assume Responsibilities				1
EP II-2 Site Support Manager Preparation to Assume Responsibilities	SEC	TION I	II - OFF-SITE PROCEDURES	
EP II-2 Site Support Manager Preparation to Assume Responsibilities	EP	11-1	Emergency Response Manager Preparation to Assume Responsibilities	1
EP II-3 Radiological Support Manager Preparation to Assume Responsibilities	EP	11-2	Site Support Manager Preparation to Assume Responsibilities	
EP II-4 Notification of Corporate Emergency Response Personnel	EP	11-3	Radiological Support Manager Preparation to Assume Responsibilities	
EP II-5 Emergency Paging of Corporate Emergency Response Personnel	EP	II-4	Notification of Corporate Emergency Response Personnel	
EP II-6 Off-Site Administrative Support	EP	11-5	Emergency Paging of Corporate Emergency Response Personnel	
EP II-7 Testing of Emergency Procedure EP II-4	EP	II-6	Off-Site Administrative Support	
	EP	II-7	Testing of Emergency Procedure EP II-4	

51	CTION	III - SECURITY EMERGENCY PROCEDURES	REV. NO.
· EI	III-1	Opening of the Technical Support Center	
EF	TII-2	Opening of the Emergency Operations Facility	1
EF	111-3	Personnel Accountability	2
EP	III-4	Site Evacuation - Security Support	1
EP	III-5	Emergency Vehicle Support	
SE	CTION	V - RADIATION PROTECTION/CHEMISTRY EMERGENCY PROCEDURES	
EP	IV-101	TSC Initial Response	
EP	IV-102	Control Room Initial Response	1
EP	IV-103	Control Point Initial Response	1
EP	IV-104	TSC Evacuation	1
EP	IV-105	Control Point and Equipment Evacuation	1
EP	IV-106	ALARA Task Review and Emergency Exposure Authorization	1
EP	IV-107	Radiation Monitor Evaluation	1
EP	IV-108	Protective Action Recommendations	1
EP	IV-109	Plume Tracking by Helicopter	2
EP	IV-110	A Field Monitoring by TSC	
EP	IV-110	B Field Monitoring by EOF	0
EP	IV-111	Effluent Dose Calculations	2
EP	IV-112	Emergency Operations Facility - Radiological Assessment	0
EP	IV-113	Computerized Dose Calculations	2
EP	IV-114	Computerized Dose Calculations on Programmable Calculator	0
EP	IV-115	Personnel and Vehicle Survey	. 1
EP	IV-116	Fire Brigade Escort	1
EP	IV-117	Re-Entry Team Radiation Protection	1
EP	IV-118	High Activity Sample Analysis	2
EP	IV-119	Personnel Decontamination	1
EP	IV-120	Equipment Decontamination	1
EP	IV-121	Containment Atmosphere Remote Sampling	1
EP	IV-122	Emergency Staffing Guide	1
EP	IV-201	Radiation Protection Senior Supervisor Response	1
EP	IV-202	Chemistry Senior Supervisor Response	1
EP	IV-203	Administrative Assistant Response	1
EP	IV-204	Short Term Environmental Response	1
EP	IV-205	Material and Instruments Supervisor Response	1
EP	IV-206	Dosimetry-Counting Room Supervisor Response	1
EP	IV-207	Rad Waste Supervisor Response	1
EP	IV-208	Dose Assessment - ALARA Supervisor Response	1
EP	IV-209	In-Plant Supervisor Response	1
EP	IV-210	Procedures-Training Supervisor Response	1
EP	IV-211	Radiation Protection Communications Guide	1
EP	IV-212	Radiation Protection Emergency Inventory Control	1
EP	IV-301	Interim Post Accident Primary Coolant Sampling	2
EP	IV-302	Emergency Sampling Procedure for the Plant Vent	1

	PHERGENCY PROCEDURES	REV.	NO.
SECTION V	- ENGINEERING DEPARTMENT EMERGENCY PROCEDURES	0	
		0	
EP V-1	Notification of Engineering and Construction Department Notification of Engineering Support Manager Response (CHERC)	(3
EP V-2	- engineering support		0
EP V-3			0
EP V-4	- maineering ream services (menc)		0
EP V-5	- Auglity Assurance and		0
EP V-6	rearing Team Leaves		0
EP V-7	Site Ouality About the Site Engineering Team Leader Response (TSC)		
EP V-8 -	Response (CHERC)		
	VI - PLAN ADMINISTRATION		,
SECTION			1
	Revision and Approval of Plans and Procedures Distribution of Plans and Procedures		0
EP VI-1			0
EP VI-2	and of Plans and Procedure		C
Eb AI-3	· Pormat · · · · · ·		1
EP VI-4	and Exercises		
EP VI-5	Conduct of		
	VII - PUBLIC INFORMATION		
SECTION			0
	Information Notification		0
Eb All-	- W Information		0
EP VII-	Commation Manager		C
EP VII-	ion Technical		0
EP VII	- ftion Technicas	/ -	0
EP VII	-5 Public Information		.0
EP VII	-5 Public Information -6 Internal Information -7 Media Relations		
EP VII	I-6 Internal III. I-7 Media Relations		0
EP VI	I-8 Emergency News Center Activation/Pulbic Information Response		
	[1] [1] [1] [1] [1] [1] [1] [1] [1] [1]		
ADDEN	ndum Master Phone List		3
			1
Adder	ndum 1 Master Phone Blad on Status Checklist		
Adder	ndum 1 Master Phone List		
FIGU	RES		1
-			1
Figu	re 1 EDO Checklist		0
	- interested Manning	-	1
			0
	tacident RMS Assessment	Cole	0
	ure 5 Area/Process RMS Data		
	ure 4 Post Accident ure 5 Area/Process RMS Data		

3 of 3