EMERGENCY PLAN CLASSIFICATIONS

SAFETY SYSTEM FUNCTION

TIME TO REACH MODE 3 EXCEEDED FOR ANY LCO LISTED TABLE I? — NO → IS SUPT DETERMINES SRV STUCK OPEN IN MODE 1, 2, OR 3? — NO → EAL NOT MET

YES → UNUSUAL EVENT

YES → UNUSUAL EVENT

TABLE I

344	SRVS
351	ECCS OPERATING
3611	PRIMARY CTMT
3612	CTMT AIRLOCKS
3613	CTMT ISOL VLVS
3616	LO LO SET SRVS
3617	CTMT SPRAY
3621	SUPP POOL TEMP
3622	SUPP POOL LEVEL
3624	SPMU
3641	SEC CTMT
3642	SEC CTMT ISOL VLVS
3643	STANDBY GAS TREATMENT
3651	DRYWELL INTEGRITY
3652	DRYWELL AIRLOCKS
3653	DRYWELL ISOL VLVS

ABNORMAL PRIMARY LEAKAGE / LOW REACTOR WATER LEVEL

RPV WATER LEVEL BELOW -167 INCHES? — NO → PLANT IN MODE 1, 2, OR 3? — NO → EAL NOT MET

YES → MAKEUP SYSTEMS ABLE TO INCREASE REACTOR VESSEL WATER LEVEL? — YES → EAL NOT MET

NO → SITE AREA EMERGENCY

YES → LEAKAGE RATE > 50 GPM? — NO → UNIDENTIFIED LEAKAGE > 5 GPM? — NO → TOTAL LEAKAGE AVG FOR 24 HR PERIOD > 30 GPM? — NO → EAL NOT MET

YES → ALERT

YES → UNUSUAL EVENT

YES → UNUSUAL EVENT

CORE FUEL DAMAGE

2 OF 3 FISSION BARRIERS LOST WITH POTENTIAL LOSS OF THIRD TABLE II? — NO → RPV LEVEL (-167 IN OR UNDETERMINED)? — NO → DFGAS MEILER MONITOR > 14,000 MR/HR? — NO → COOLANT SAMPLE INDICATES > 300 UCI/ML DOSE EQUIVALENT IODINE? — NO → MSL RAD EXCEEDS RAD TRIP SETPOINT? — NO → DFGAS OR COOLANT ACTIVITY LIMIT EXCEEDED TABLE III? — NO → EAL NOT MET

YES → GENERAL EMERGENCY

YES → COOLANT ACTIVITY SAMPLE > 300 UCI/ML DOSE EQUIVALENT IODINE? — NO → CTMT OR DRYWELL H2 CONC > 05% — NO → EAL NOT MET

YES → SITE AREA EMERGENCY

YES → SITE AREA EMERGENCY

YES → ALERT

YES → UNUSUAL EVENT

TABLE II - FISSION PRODUCT BOUNDARIES

FUEL CLADDING	REACTOR PRESSURE BOUNDARY	PRIMARY CONTAINMENT
LOSS	LOSS	LOSS
COOLANT SAMPLE >300 uCI/ML DOSE EQUIVALENT I-131 OR >1000 R/HR IN DRYWELL	BV PRESS >123 PSIG AND BV STEAM LEAK OR MSL NOT ISOLATED OR RCIC STEM LINE BREAK OUTSIDE CTMT THAT CANNOT BE ISOLATED	CTMT PRESS > 56 PSIG OR UNABLE TO ISOLATE CTMT OR BV LEAKAGE INTO AREAS OUTSIDE CTMT
POTENTIAL LOSS	POTENTIAL LOSS	POTENTIAL LOSS
RPV LEVEL CANNOT BE RESTORED AND MAINTAINED > -167 IN OR RPV PRESS CANNOT BE RESTORED AND MAINTAINED > 57 PSIG DURING RPV FLOODING OR > 100 R/HR IN DRYWELL	TOTAL RPV COOLANT LEAKAGE > 50 GPM OR > 10 R/HR IN CTMT	CTMT PRESS > 22 PSIG OR IN THE UNSAFE REGION OF HCTL OR PSP CURVES OR IN THE UNSAFE REGION OF HBOL WITH H2 IGNITERS RE-ENERGIZED

TABLE III - FUEL DAMAGE INDICATION

DFGAS PRETREAT INCREASE OF 265 MR/HR IN 30 MINUTES
OR
DFGAS PRETREAT ABOVE 1400 MR/HR
OR
COOLANT SAMPLE INDICATES > 02 UCI/ML DOSE EQUIVALENT I-131 FOR MORE THAN 48 HOURS
OR
COOLANT SAMPLE INDICATES > 10 UCI/ML DOSE EQUIVALENT I-131

STEAM LEAKS

MSL OR RCIC ISOL RCVD DUE TO CONFIRMED STM LN BREAK OUTSIDE CTMT? — NO → MSL OR RCIC ISOLATION INITIATED? — NO → EAL NOT MET

YES → RCIC OR ONE OR MORE STM LINES FAIL TO ISOLATE? — NO → ISOLATION VLV LEAKAGE > 10 GPM OR 5000 LBM/HR? — NO → EAL NOT MET

YES → SITE AREA EMERGENCY

YES → ALERT

ABNORMAL GASEOUS EFFLUENT

OFFSITE RELEASE EXCEEDS GENERAL EMERG LIMITS TABLE IV? — NO → OFFSITE RELEASE EXCEEDS SITE AREA EMERG LIMITS TABLE V? — NO → HIGH HIGH RAD ALARMS ON RV, FHA, CTMT, OR TURB BLDG VENTS? — NO → ACTION STATEMENT OF TRM 6.11.4, 6.11.5, AND 6.11.6 ENTERED? — NO → EAL NOT MET

YES → GENERAL EMERGENCY

YES → SITE AREA EMERGENCY

YES → SUM OF EFFL MONITORS EXCEED 10 TIMES TRM 6.11.4 LIMIT? — NO → ALERT

YES → ALERT

YES → UNUSUAL EVENT

YES → UNUSUAL EVENT

TABLE IV

1. EFFLUENT MONITORS UNDER ACTUAL MET CONDITIONS CONFIRMS RELEASE RATE CORRESPONDING TO SITE BOUNDARY EXPOSURE OF:
   - A. 1000 MREM TEDE
   - OR
   - B. 5000 MREM THYROID CDE

OR

2. RAD MONITORING TEAMS REPORT RAD AND/OR IODINE READINGS AT THE SITE BOUNDARY CORRESPONDING TO:
   - A. 1000 MREM TEDE
   - OR
   - B. 1.2 E-3 uCI/CC IODINE

TABLE V

1. ANY POST ACCIDENT ACCIDENT EFFLUENT RELEASE RATES OF:		2. RAB MONITORING TEAMS REPORT SITE BOUNDARY RAD/IODINE OF:		3. CTMT POST ACCIDENT RAD MONITOR READING OF:
0.5 CI/SEC NOBLE GAS FOR 30 MIN		50 MR/HR FOR 30 MINUTES		> 330 R/HR FOR 30 MINUTES
OR		OR		OR
6.0E-4 CI/SEC IODINE FOR 30 MIN	OR	500 MR/HR FOR 2 MINUTES	OR	> 3300 R/HR FOR 2 MINUTES
OR		OR		
5.0 CI/SEC NOBLE GAS FOR 2 MIN		6.0E-6 uCI/CC IODINE		
OR		OR		
6.0E-3 CI/SEC IODINE FOR 2 MIN				

ABNORMAL LIQUID EFFLUENT

LIQUID RELEASE > 10 TIMES TRM SPEC 6.11.1 LIMIT? — NO → ACTION STATEMENT OF TRM 6.11.1 ENTERED? — NO → EAL NOT MET

YES → ALERT

YES → UNUSUAL EVENT

ELECTRICAL FAILURES (AC)

OFFSITE POWER TO ALL THREE ESF BUSSES LOST? — NO → ALL THREE E-D/G DIESEL GEN LOST WHILE IN MODE 1, 2 OR 3? — NO → EAL NOT MET

YES → ALL THREE EMER DIESEL GEN LOST? — NO → UNUSUAL EVENT

YES → GREATER THAN 15 MINUTES? — NO → ALERT

YES → SITE AREA EMERGENCY

ELECTRICAL FAILURES (DC)

BUS 1, 2, AND 3 125 VDC POWER LOST? — NO → EAL NOT MET

YES → GREATER THAN 15 MINUTES? — NO → ALERT

YES → SITE AREA EMERGENCY

HAZARDS TO PLANT OPERATIONS

ONSITE HAZARD MEETS SITE AREA EMER LIMITS TABLE VI? — NO → ONSITE HAZARD MEETS ALERT LIMITS TABLE VII? — NO → ONSITE HAZARD MEETS UNUSUAL EVENT LIMITS TABLE VIII? — NO → EAL NOT MET

YES → SITE AREA EMERGENCY

YES → ALERT

YES → UNUSUAL EVENT

TABLE VI

1. NOTIFICATION OF AIRCRAFT CRASH INTO PLANT VITAL AREA
2. NOTIFICATION OF SEVERE DAMAGE TO SAFE SHUTDOWN EQUIP FROM MISSILES OR EXPLOSION
3. DETERMINATION OF ENTRY OF TOXIC OR FLAMMABLE GASES INTO VITAL AREAS OF THE PLANT CONSTITUTES A PLANT SAFETY PROBLEM

TABLE VII

1. NOTIFICATION OF AIRCRAFT CRASH ONSITE INSIDE PROTECTED AREA, NO DAMAGE TO PLANT VITAL AREAS
2. NOTIFICATION OF MISSILE IMPACT TO PLANT NON VITAL STRUCTURES
3. NOTIFICATION OF ONSITE EXPLOSION AFFECTING PLANT OPERATION
4. NOTIFICATION OF TURBINE FAILURE RESULTING IN CASING PENETRATION
5. DETERMINATION OF TOXIC OR FLAMMABLE GAS IN THE PLANT WHICH THREATENS OPERABILITY OF SAFETY RELATED LOOP

TABLE VIII

1. NOTIFICATION OF AIRCRAFT CRASH ONSITE OUTSIDE PROTECTED AREA
2. NOTIFICATION OF UNUSUAL AIRCRAFT ACTIVITY OVER THE FACILITY
3. NOTIFICATION OF ONSITE EXPLOSION NOT AFFECTING PLANT OPERATIONS
4. MANUAL OR AUTO SCRAM INITIATED DUE TO TURBINE BLADE FAILURE WITHOUT CASING PENETRATION
5. DETERMINATION THAT A RELEASE OF TOXIC, OXYGEN DISPLACING, OR FLAMMABLE GAS SIGNIFICANTLY HAMPERS THE ABILITY TO PERFORM ACTIVITIES AFFECTING PLANT SAFETY

DISCRETIONARY

LARGE RELEASE OF RAD MATERIAL LIKELY IN A SHORT PERIOD OF TIME? — NO → PLANT CONDITIONS WARRANT EOF ACTIVATION? — NO → PLANT CONDITIONS WARRANT NEAR SITE PUBLIC NOTIFICATION? — NO → PRECAUTIONARY ISC ACTIVATION AND EOF PERSONNEL PLACED ON STANDBY? — NO → PLANT CONDITIONS WARRANT PRECAUTIONARY STATE AND LOCAL NOTIFICATION? — NO → EAL NOT MET

YES → GENERAL EMERGENCY

YES → SITE AREA EMERGENCY

YES → ALERT

YES → UNUSUAL EVENT

GGNS
Document Control
CONTROLLED COPY
COPY # 57

EAL CLASSIFICATION SUBJECT TO CHANGE - MONITOR EALS FOR CHANGING CONDITIONS

EMERGENCY CLASSIFICATION FLOWCHART	
10-S-01-1	EPP 01-02 (FLOWCHART)
DATE: 5/17/00	
PAGE: 1 OF 2	

D-1