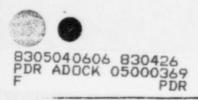
DUKE POWER CO.

## DUKE POWER COMPANY PROCEDURE PREPARATION PROCESS RECORD

(1) ID No: RP/0/A/5700/01 Change(s) 0 to 0 Incorporated

(2)	STATION: McGuire Nuclear Station		
(3)	PROCEDURE TITLE: Notification of Unusual	Event	
(4)	PREPARED BY: M. S. Glover	DATE:	2/22/83
(5)	REVIEWED BY THE THE	DATE:_	2-24-83
	Cross-Disciplinary Review By:		N/R: 0
(6)	TEMPORARY APPROVAL (IF NECESSARY):		
	By:(SRO)	Date:_	
	Ву:	Date:_	
(7)	APPROVED BY: Georgia. Engl	Date:_	2-24-83
(8)	MISCELLANEOUS:		
	Reviewed/Approved By:	Date:_	
	Reviewed/Approved By:	Date:	



RP/O/A	/570	00/01		
PAGE	1	OF	3	

# DUKE POWER COMPANY McGUIRE NUCLEAR STATION NOTIFICATION OF UNUSUAL EVENT

TO SAMPLOMS	1.0	Symp	toms
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1.1 This condition exists whenever unusual events are in process or have occurred which indicate a potential degradation of the level of safety of the plant.

#### 2.0 Immediate Actions

2.1 Automatic

None

- 2.2 Manual
  - 2.2.1 The Shift Supervisor shall be informed of all events initiating this procedure.

#### 3.0 Subsequent Action

SECURIOR CHARGE STATE OF THE PARTY.	STATE OF THE PERSON NAMED IN	
Initial/N/A		
	3.1	The Shift Supervisor shall assure that the appropriate emergency condition (Notification of Unusual Event, Alert, Site Area
		Emergency, or General Emergency) is declared by evaluating the actual plant condition with Enclosure 4.1, Emergency Classification
		Flowchart and Enclosure 4.2, List of Initiating Conditions,
		Emergency Action Levels, and Associated Emergency Procedure/
		Document.
	3.2	initiating Emergency Procedure will be performed and that all actions necessary for the protection of persons and property are
		being taken.
		NOTE
		The same than to the same of same to this same to

If at any time in the course of events in this procedure, site evacuation or personnel assembly/accountability appears necessary, refer to Station Directive 3.8.1.

7 3.3 The Shift Supervisor shall assume the function of the Emergency Coordinator until the arrival of the Station Manager or his designee at which time the Station Manager or his designee assumes the responsibility of the Emergency Coordinator. 3.4 The Emergency Coordinator shall assure prompt (within about 15 minutes of declaring the emergency) notification of the North Carolina State and Local County Warning Points indicated on Enclosure 4.3. He shall also assure notification of all other personnel listed in Enclosure 4.3.

#### NOTE 1.

See Enclosure 4.4, Telephone Listing, for notification, telephone numbers/radio codes/pager codes.

#### NOTE 2.

See Enclosure 4.5, Notification of Emergency Conditions, for information to be provided to State/County Warning Points.

#### NOTE 3.

See Enclosure 4.6, Emergency Plan Message Format for information to be provided to Nuclear Production Duty Engineer.

- 3.5 In the event a release or potential release of radioactive materials is a threat to plant personnel or members of the general public the Emergency Coordinator shall utilize the Operator Aid Computer (OAC) "NUCLEAR-23" program to assess the offsite consequences. In the event the (OAC) is not operational the Emergency Coordinator shall request Health Physics personnel to evaluate the consequences utilizing the appropriate Health Physics procedure, HP/O/B/1009/05, HP/O/B/1009/06, HP/O/B/1009/08, HP/O/B/1009/09 or HP/O/B/1009/10.
- The Emergency Coordinator shall provide protective action recommendations as necessary to the affected county warning point(s) and to the North Carolina warning point (Emergency Operations Centers if established) or the State Radiological Protection Section, Department of Human Resources (see Enclosure 4.4 Telephone Listing) as directed by the state in accordance with the North Carolina Radiological Emergency Response Plan. If actual release of radioactive materials will result in a projected dose (REM) to the population of: (EPA Protective Action Guidelines).

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- 3.6.1 Whole body <1, thyroid <5, NO protective action is required. Monitor environmental radiation levels to verify.
- 3.6.2 Whole body 1 to <5, thyroid 5 to <25, recommend seeking shelter and wait for further instructions. Consider evacuation particularly for children and pregnant women. Monitor environmental radiation levels. Control access to affected areas.
- 3.6.3 Whole body 5 and above, thyroid 25 and above, recommend mandatory evacuation of populations in the affected areas. Monitor environmental radiation levels and adjust area for mandatory evacuation based on these levels. Control access to affected areas.

#### NOTE

See Enclosure 4.4, Telephone Listing for notification.

	3.7	The Emergency Coordinator shall augment on shift resources to
		assess and respond to the emergency situation as needed to ensure
		the protection of persons and property.
	3.8	The Emergency Coordinator will assess the Emergency Condition and
		determine the need to remain in a Notification of Unusual Event,
		escalate to a more severe class or close out the emergency.
1.	3.9	The Projects and Licensing Engineer or his designee will close out
		the Emergency with verbal summary to county and State authorities,
		notified in Step 3.4, followed by written summary within 24 hours.

#### 4.0 Enclosures

- 4.1 Emergency Classification Guide Flowchart
- 4.2 List of Initiating Conditions, Emergency Action Levels, and Associated Emergency Procedure/Document.
- 4.3 Notification Chart
- 4.4 Telephone Listing
- 4.5 Notification of Emergency Conditions.
- 4.6 Emergency Plan Message Format

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#### EMERGENCY CLASSIFICATION GUIDE FLOWCHART

	EVENT CATEGORY	UNIVEVAL EVENT	CMENI	BITE AREA EMERGENCY	GENERAL EMERGENCY
"	ABNORMAL PRIMARY LEAK RATE	EXCEDING BITHER PRIMARY/ BECOMDARY LEAR RATE TECHNICAL SPECIFICATION OR PRIMARY SYSTEM LEAR RATE TECHNICAL BECCIFICATION REQUIRING SHUTDOWN BY TECH SPEC	PRIMARY COGLANT LEAK RATE GREATER THAN 50 GPM	ENOWN LOSS OF COOLANT ACCIDENT  IL DCA) GREATER THAN MAKE-UP  CAPACITY  RAPID FAILURE OF STEAM GENERATOR—  TUBES WITH LOSS OF OFFSITE POWER  ISEVERAL MUNDRED GPMI	
31	AND FUEL DAMAGE	PRESEURE DR ABNORMAL FUEL TEMPS. WHICH EXCEED TECH, SPEC, LIMITS	SEVERE LOSS OF FUEL CLADDING	OF COOLABLE GEOMETRY	LOSE OF 2 OF 3 FISSION PRODUCT BARRIERS WITH POTENTIAL LOSS OF THE THIRD BARRIER 
31	STEAM LINE BREAK OR MS RV/SV	PAILURE OF A SAFETY OR RELIEF VALVE IN A SAFETY RELATED SYSTEM TO CLOSE FOLLOWING A REDUCTION OF APPLICABLE PRESSURE	PRIMARY TO SECONDARY LEAK RATE.	STEAM LINE STEAK MITH GREATER THAN SO GAM PIE LEAKAGE AND INDICATION OF FUEL DAMAGE	FAILURE OF ECCS TO PERFORM LEADING TO CORE MELT DEGRADATION OR MELT IN MINUTES TO HOURS LOSS OF CONTAINMENT
41	OTHERICOR	- LOSE OF CONTAINMENT INTEGRITY RESULTING IN MAMEDIATE SHUTDOWN BY YECH SPEC. LOSE OF SINGINES RED SAFETY FEATURE OR FIRE PROTECTION FUNCTION REQUINING SHUTDOWN BY TECH SPEC. SUB ROSENCY CORE COOLING SYSTEM (ECCE) INITIATED AND DISCHARGED TO VESSEL.			INTEGRITY MAY SE IMMINENT
	ABNORMAL MADIOLOGICAL EFFLUENT OR RADIATION LEVELS	#ADDOLOGICAL EFFLUENT TECHNICAL SPECIFICATION LIMITE EXCEEDED	MIGH RADIATION LEVELS OR HIGH AIRSORNE CONTAMINATION WHICH INON-ATES SEVERS DEGRADATION IN COMPACT OF RADIOACTIVE MATERIAL PRAGIOLOGICAL SPELLENTS GREATER— THAN 16 TIMES TECH. SPEC. HISTANTANEOUS LIMITS	EFFLUERT MONITORS DETECT LEVELS CORRESPONDING TO GREATER THAN SO MANIA FOR K HOUSE OR GREATER THAN SOG MANIA W.S. FOR TWO MINUTES AT THE SITE BOUNDARY FOR ADVERSE METEOROLOGY THESE DOSE AN SES ARE PROJECTED— SASED ON OTHER PLANT PARAMETERS OR ARE MEASURED IN THE ENVIRONS EPA PROJECTED SOT SCHOOL GUIDELINES— ARE PROJECTED TO SE EXCELDED OUTSIDE THE SITE SOUNDARY	EFFLUENT MONITORS DETECT LEVELS CORRESPONDING TO 1 RELIVIR W.S. OR S REMINER THYROLD AT THE SITE SOUNDARY UNDER ACTUAL MITEOROLOGICAL CONDITIONS LODGE AS RES ARE PROJECTED SASED ON OTHER PLANT FRAMETERS OR ARE MEASURED IN THE ENVIRONS
•1	LOSS OF SHUTDOWN FUNCTIONS DECAY HEAT OR REACTIVITY		FAHURE OF REACTOR PROTECTION SYSTEM TO INITIATE AND COMPLETE A SCRAM WHICH BRINGS THE REACTOR AUSCRITICAL COMPLETE LOSS OF ANY FUNCTION MESDED FOR PLANT COLD SHUTDOWN	TRANSIENT REQUIRING OPERATION OF SHUTDOWN SYSTEMS WITH FAILURE TO SCRAM (CONTINUED FOWER GENERATION WITH HO CORE DAMAGE (MMEDIATELY EVIDENT)  LOSS OF ANY FUNCTION MEEDED FOR— PLANT HOT SHUTDOWN	TRANSIENT REQUIRING OPERATION OF SHUTDOWN BYSTEMS WITH FAIL URE TO SCRAM. ADDITIONAL FAILURE OF CORE COOLING AND MAKEUP SYSTEM WOULD LEAD TO CORE MELT.
21	ELECTRICAL OR POWER FAILURES	LOSS OF OFFSITE FOWER OR LOSS OF	LOSS OF OFFSITE POWER AND LOSS OF	-LOSS OF OFFSITE POWER AND LOSS OF- ALL ONSITE AC FOWER FOR MORE THAN 18 MINLOSS OF ALL VITAL ONSITE DC POWER	TRANSIENT INITIATED BY LOSS OF PRINCIPLE HEAT REMOVAL SYSTEMS POLLOWED BY PAILURE OF EMER-
81	FIRE-	FIRE WITHIN THE PLANT LASTING	FIRE POTENTIALLY APPECTING	FOR MORE THAT IS MIN.	GENCY PEEDWATER BYSTEM FOR EX- TENDED PERIOD. CORE MELT POSSIBLE
•1	LOSS OF MONITORS, ALARMS, ETC.	MORE THAN 10 MINUTES	BAP BTY BYBTEMS  BY ACUATION OF CONTINUE ROOM  ANTICIPATED OR REQUIRED WITH  CONTINUE OF SHUTDOWN BYSTEMS  BETABLISHED FROM LOCAL STATIONS	OF BAFETY EYSTEMS  EVACUATION OF CONTROL ROOM AND CONTROL OF SHUTDOWN SYSTEMS NOT ESTABLISHED FROM LOCAL STATIONS IN 15 MIN.	IN SEVERAL HOURS WITH UITIMATE FAILURE OF CONTAINMENT LIKELY IF CORE MELTS.
101	LUSS OF MUNITURE, ALARMS, \$16.	INCOCATIONS OR ALARMS ON PROCESS OR SPECIENT PARAMETERS NOT FUNCTIONING IN CONTROL ROOM TO AN EXTERT REQUIRING PLANT SHUTDOWN. OTHER SIGNIPLANT LOSS OF ASSESSMENT OR COMMUNICATION CAPABLITY	MOET OR ALL ALARMS  (ANNUNICATORS) LOET	MOST OR ALL ALARMS IANNUNCIATORS; LOST AND PLANT TRANSIENT INITIATED OR IN PROGRESS	ANY MAJOR INTERNAL OR EXTERNAL EVENTS IE G. FIRES, EARTHQUAKES SUBSTANTIALLY BEYOND DESIGN BABIS; WHICH COULD CAUSE MASSIVE COMMON DAMAGE TO PLANT SYSTEMS
"	FUEL HANDLING ACCIDENT		FUEL DAMAGE ACCIDENT WITH RELEASE OF RADIOACTIVITY TO CONTAINMENT OR FUEL HANDLING BUILDING	-MAJOR DAMAGE TO SPENT FUEL IN CONTAINMENT OR FUEL HANDLING BUILDING	
121	HAZARDS TO PLANT OPERATIONS	PROJECTED THAY APPECY PLANT OPERATIONS	SEVERE HAZARDS SEING EXPERISHCED OR PROJECTED POTENTIALLY APPECTING SAFETY SYSTEMS	- OTHER SEVERE HAZARDS BEING EXPERIENCED OR PROJECTED WITH PLANT NOT IN COLD SHUTDOWN	
131	SECURITY THREATS	SECURITY THREAT,OR ATTEMPTED ENTRY			- LOSS OF PHYSICAL CONTROL OF THE
14)	NATURAL EVENTS	OR ATTEMPTED BABOTAGE  NATIFIAL PHENDMENA BEING  EXPERIENCED OR PROJECTED BEYOND  WEUAL LEVELS  T	EXPERIENCED OR PROJECTED	OF PLANT  - SEVER BE NATURAL PHENOMENA SEING  - EXPERIENCED OR PROJECTED WITH  PLANT NOT IN COLD SHUTDOWN	FACILITY  ANY MAJOR INYERNAL OR EXTERNAL  FVENTS IE G FIRES, EARTHOUAKES  EUBSTANTIALLY SEYOND DESIGN  BASIS WHICH COULD FAIRE MACEUE
161	OTHERS	OTHER PLANT CONDITIONS EXIST THAT— WARRANT INCREASED AWARENESS ON THE PART OF PLANT OFERATING STAFF OR STATE AND/OR LOCAL OFFSITE AUTHORITIES OR REQUIRE PLANT SHUTDOWN UNDER TECHNICAL SPECIFICATION REQUIREMENTS AND INVOLVE DITHER THAN NORMAL CONTROLLED SHUTDOWN TRANSPORTATION OF CONTAMINATED INJURIED INDIVIDUAL FROM SITE TO OFFSITE HOSPITAL	OTHER PLANT CONDITIONS EXIST WARRANTING PRECAUTIONARY ACTIVATION OF THE TSC AND/OR THE CRIBIS MANAGEMENT CENTER	WARRANTING ACTIVATION OF WARRANTING ACTIVATION OF EMERGENCY CENTERS AND MONITORING TEAMS OR ISSUANCE OF A PRECAUTIONARY NOTIFICATION TO THE PUBLIC NEAR THE SITE	COMMON DAMAGE TO PLANT SYSTEMS  OTHER PLANT CONDITIONS ELLST FROM WHATEVER SOURCE THAT MAKE RELEASE OF LANGE AMOUNTS OF RADIOACTIVITY IN A SHORT TIME PERIOD POSEIBLE, IE.G. ANY CORE MELT SITUATION!

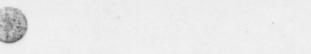


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## LIST OF INITIATING CONDITIONS, EMERGENCY ACTION LEVELS, AND ASSOCIATED EMERGENCY PROCEDURE/DOCUMENT

Initiati	ng Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4.2.1	Emergency Core Cooling Initiated (SI) and discharge to vessel has occurred.	Safety Injection signal verification by redundant indication and indication of discharge to vessel.	EP/1/A/5000/01, EP/2/A/5000/01 EP/1/A/5000/02, EP/2/A/5000/02, EP/1/A/5000/03, EP/2/A/5000/03, EP/1/A/5000/04, EP/2/A/5000/04, AP/1/A/5500/35, AP/2/A/5500/35
4.2.2	Radiological effluent Technical Specification limits exceeded.	EMF49, 50, 35, 36, 37 Alarm indicating Technical Specification Limits exceeded.	Tech Specs 3/4.11, Environmental Tech Specs, HP/0/B/1009/09, HP/0/B/1009/10, HP/0/B/1009/05
4.2.3	Fuel Damage Indication:		
а.	High coolant activity sample exceeding Tech. Specs.	a. >1 μCi/gram Dose Equivalent I-131 or >100 μCi/gram gross activity.	AP/1/A/5500/18, AP/2/A/5500/18,
ins		NOTE: These calculations avail- able from counting faci- lity on request.	
ь.	Failed fuel monitor indicates Mechanical Clad Failure greater than 1% to 5% or 0.1% equivalent fuel failures within 30 minutes.	b. Increase in I-131 concentration by 7μCi/ml over a 30 minute period, or, I-131 concentration is in the range of 70μCi/ml to 350 μCi/ml verified by increased EMF-48 readings and labora- tory analysis.	
4.2.4	Abnormal coolant temperature and/or pressure or abnormal fuel temperature outside of Technical Specification Limits.	Figure 2.1-1 Tech Specs exceeded and Core Subcooling Monitor less than acceptable. (Below Curve) Verified as necessary by redundant Instrumentation. (e.g., narrow and wide range pressure/temperature subcooling monitors)	AP/1/A/5500/05, AP/2/A/5500/05

Initiat	ing Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4.2.5	Exceeding either primary/ secondary leak rate requiring shutdown by Tech. Specs. or primary leak rate requiring shutdown by Tech. Specs.	>1GPM total P/S leakage >500 GPD from any S/G >10GPM Identified Primary Leakage Verified by EMF readings, level control, make-up rate, and or chemical/radiological analysis.	EP/1/A/5000/02, EP/2/A/5000/02, EP/1/A/5000/04, EP/2/A/5000/04, AP/1/A/5500/10, AP/2/A/5500/10
4.2.6	Failure of a safety or relief valve in a safety related system to close, following reduction of applicable pressure. (Primary System (NC) or Main Steam (SM).	Valid accoustical monitor indica- tion of valve failure.	EP/1/A/5000/02, EP/2/A/5000/02, AP/1/A/5500/11, AP/2/A/5500/11, EP/1/A/5000/03, EP/2/A/5000/03
4.2.7	Loss of offsite power or loss of onsite AC power capability.	Undervoltage alarms on 7KV buses or blackout load sequencers actuated.	AP/1/A/5500/07, AP/2/A/5500/07
4.2.8	Loss of containment integrity requiring shutdown by Tech Specs (3/4.6.1).	Any automatic containment isolation valve found to be open and inoperable and unisolable or both air lock doors on a lock inoperable, or penetration(s) fail leak test per Tech Specs when containment integrity required.	AP/0/A/5500/24
4.2.9	Loss of engineered safety feature or fire protection system function requiring shutdown by Tech Specs (e.g., malfunction, personnel error, or procedural inadequa		AP/1/A/5500/19, AP/2/A/5500/19, AP/1/A/5500/21, AP/2/A/5500/21, AP/1/A/5500/20, AP/2/A/5500/20, Tech Specs 3/4.5, 3/4.7.10, 3/4.7.11



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Initiati	ing Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4.2.10	Fire within the plant lasting more than 10 minutes.	Observation or fire detection alarm with confirming observation of a fire lasting more than 10 minutes.	Station Directive 2.11
4.2.11	Indications or alarms on process or effluent parameters not functional in Control Room to an extent requiring plant shutdown or other significant loss of assessment or communication capability (e.g., all meteorological instrumentation, or radio networks).	Loss of process or effluent radiation monitoring system or Loss of all meteorological instrumentation onsite or Loss of all radio/telephone communications capability offsite.	OP/O/A/6700/03, Tech Specs 3/4.3
4.2.12	Security threat or attempted entry or attempted sabotage.	As notified by Security Force.	Station Security Plan
4.2.13	Natural phenomenon being experienced or projected beyond usual levels.		
	a. Any earthquake felt in plant or detected on station seismic in- strumentation.	(<.08gH, <.053gV), Annunciator Alarm, (AD-13)	
	b. 50-year flood or low water, hurricane surge, seiche (lake tidal wave)	As observed	
	c. Any tornado on site d. Any hurricane	As observed	PR 10 14 15 700 104 PR 10 14 15 700 103
	d. Any nurricane	Winds >73 mph/from National Weather Service information.	RP/0/A/5700/06, RP/0/A/5700/07

Initiati	ng Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4.2.14	Other hazards being ex- perienced or projected.		
	a. Aircraft crash onsite or unusual aircraft activity over facility.	As observed	
	b. Train derailment on site.	As observed	
	c. Near site or onsite explosion.	As observed	
	d. Near site or onsite toxic or flammable gas release.	As observed	RP/0/A/5700/08
	e. Turbine rotating com- ponent failure causing rapid plant shutdown (Loss of Condenser Heat Sink).	Turbine trip and observation of a turbine malfunction or failure.	AP/1/A/5500/23, AP/2/A/5500/23, AP/1/A/5500/02, AP/2/A/5500/02, RP/0/A/5700/09
4.2.15	Other plant conditions exist that in the judge- ment of the Shift Supervisor, the Operations Duty Engineer, the Superintendent of Opera- tions, or the Station Manager warrant increased awareness on the part of State and/or local offsite authorities or		As directed by plant conditions
	require plant shutdown under Tech Specs requirements and involve other than normal con trolled shutdown (e.g., cool- down rate exceeding Tech Spec limits, pipe cracking found during operation).		

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Initiati	ing Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4.2.16	Transportation of contami- nated injured individual from site to offsite hospital.	As observed.	RP/0/A/5700/05
4.2.17	Rapid depressurization of secondary side.	As observed and actuation of 4.2.1 and 4.2.6 above.	AP/1/A/5500/06, AP/2/A/5500/06

NOTIFICATION CHART NOTIFICATION OF UNUSUAL EVENT INITIATING CONDITIONS (from ENCLOSURE 4.2)

ENCLOSURE 4.3 PAGE 1 OF 1

Shift Supervisor	×	×	*	×	×	×	*	×	×	×	×	×	×	×	×	×	×
OPS. Duty Engineer	*	*	*	*	*	*	*	×	×	×	*	*	×	×	×	×	×
Station Manager	*	*	*	×	*	*	×	×	*	*	*	×	×	×	×	×	×
Supt. of Operations	*	×	*	×	×	×	×	×	×	×	×	×	*	*	*	*	×
Supt. of Tech. Services	*	*	*	*	*	*	M	×	×	*	×	×	×	×	×	*	×
Project/Licen. Engineer	×	*	*		×	*	×	*	×	*	-	*	×	*	×	*	*
Nuclear Prod. Duty Eng.	×	*	*	*	×	*	×	×	*	*	×	×	×	×	×	×	
N.C. State Warning Point	×	×	*	*	×	*	*	*	×	*	*	*	×	×	×	*	*
Mecklenburg Warning Pt.	×	*	×	×	*	×	*	*	*	*	*	*	34	×	*		
Catawba Co. Warning Pt.	*	×	*	×	×	*	×	×	*	-	×	*	×	×	*	*	
Lincoln Co. Warning Pt.	*	*	*	*	×	×	*		*	×	*	×	*	×	×	×	
Gaston Co. Warning Pt.	*	*	×	*	*	×	*	×	*	*	*	×	*	×	×		×
Iredell Co. Warning Pt.	×	×	×	×	×	*	*	*	*	*	*	*	*	*	*		
Cabarrus Co. Warning Pt.	:4	×	*	×	×	×			*	*	×	*	*	×		×	
NRC VIA ENS	*	×	×	×	×	*	*	*	*	*	*	*	*	*			
NRC (Statton Rep.)	*	×	×	×	×	×	*	*	*	*	*	×	*				
Construction Proj. Magr.	×	*	×	×	×	*	*	*	*	*	*	*	*	×			
Station Health Physicist	NO	*	×	NO	×	ª×	NO	×	NO	**	*	NO	**	×	×		ON
Station Safety Supervisor NO	ON .	NO	NO	NO	NO	NO	NO	0M	×	×	NO	NO	×	×	NO		NO
Supt. of Maintenance	9	NO	NO	MO	NO	*	×	NO	×	×	×	NO	×	×	×	NO	NO NO
Supt. of Administration	NO	NO	NO	ON	NO	NO	NO	NO	NO	,	NO	,	1000	-			-

<sup>\* -</sup> Whenever radiological hazards may be involved

X - To be notified

#### TELEPHONE LISTING

	* ELLE HO!	TE LIBITING	
4.4.1	Operations Duty Engineer (PA System P&T Pager -	em)	
4.4.2		em Speed	
4.4.3	Superintendent of Operations - Home - Syst	em Speed .	
4.4.4	Superintendent of Technical Service Home - 3yste	es - m Speed -	
4.4.5	Projects & Licensing Engineer - Home - Syst	em Speed -	
4.4.6	Nuclear Production Duty Engineer -	P&T Pager	· System Speed
4.4.7	NC State Warning Point, Raleigh -		System Speed
4.4.8	Mecklenburg County Warning Point -	Back-up:	Rino Down Phone System Speed Emergency Radio, Code:
4.4.9	Lincoln County Warning Point -	Back-up:	Ring Down Phone - System Speed Emergency Radio, Code:
4.4.10	Catawba County Warning Point -	Back-up:	Ring Down Phone System Speed Emergency Radio, Code:
4.4.11	Iredell County Warning Point -	Back-up:	Ring Down Phone - System Speed Emergency Radio, Code:
4.4.12	Gaston County Warning Point -	Back-up:	Ring Down Phone - System Speed Emergency Radio, Code:
4.4.13	Cabarrus County Warning Point -	Back-up:	Ring Down Phone - System Speed Emergency Radio, Code: _
	NOTE		

#### NOTE

- Radio Code #111 activate 1.
- all county radio units.
  P&T Pager, Central Division (Charlotte Area) 2. Dial -

4.4.14	N.R.C. Operation Center, Emergency Notification System (ENS phone)
4.4.15	N.R.C. Station Representative (Bill Orders) Office Home - P&T Pager - For P&T Page from Central (MNS Area)
4.4.16	Construction Project Manager: Construction
	Home - System Speed
	System Speed
	System Speed
4.4.17	Station Health Physicist
4.4.1/	Home System Speed -
	P&T Pager
4.4.18	Station Safety Supervisor
	Bome - System Speed -
4.4.19	Superintendent of Maintenance
	Home System Speed -
4.4.20	Superintendent of Administration
4.4.20	
	Home System Speed -
4.4.21	Radiation Protection Section Department of Human Resources
4.4.21	
	- System Speed -

#### MCGUIRE NUCLEAR STATION NOTIFICATION OF EMERGENCY CONDITIONS

4.5.1	Incl	ude as a minimum, the following information to the N	North Carolina
	State	e Warning Point, and the six County Warning Points,	(Mecklenburg,
	Cata	wba, Iredell, Lincoln, Gaston, and Cabarrus).	
	NOTE	1: See Enclosure 4.4, Telephone Listing	
	NOTE	2: A. Complete Part I of this format as a minim	nal first
		notification of a reportable incident.	
		B. Complete Part I and II of this format to	provide
		minimal followup information.	
	PART	I: Initial Emergency Message Information	ACKNOWLEDGEMENT
		TELEPHONE RESPONSE:	Mecklenburg
		"This is McGuire Nuclear Station.	Iredell
		Please acknowledge when you are	Lincoln
		ready to copy Emergency Information	Cabarrus
			Gaston
	1.	This is McGuire Nuclear Station.	Catawba
	2.	My name is:	
	3.	This message (Number):	
		a. Reports a real emergency.	
		b. Is an exercise message.	
	4.	My telephone number/extension is:	·
	5.	Message Authentication:	
	6.	The class of emergency is:	
		a. Notification of an Unusual Event	
		b. Alere	
		c. Site Area Emergency	
		d. General Emergency	
	7.	This Classification of Emergency was declared at:	
		AM	I/PM DATE
	8.	The initiating event causing the Emergency Classifi	cation is:
	9.	The Emergency Condition:	
		a. Does not involve the release of radioacti	ve materials
		from the plant.	
		b. Involves the POTENTIAL for a release, but	NO release is
		occurring.	
		c. Involves a release of radioactive materia	1.

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ENCLOS	URE	4.5	
PAGE	2	OF	4

10. We recommend the following protective	action:
a. No protective action is rec	commended at this time.
b. People living in zones	remain
indoors with doors and wind	lows closed.
c. People in zones	EVACUATE
their homes and businesses.	
d. Pregnant women and children	in zones
remain indoors with the doo	ors and windows closed.
e. Pregnant women and children	in zones
evacuate to the nearest she	elter/reception center.
f. Other recommendations:	
11. There will be:	
a. A followup message	
b. No further communications	
12. I repeat, this message:	
a. Reports an actual emergency	
b. Is an exercise message.	
13. Relay this information to the persons	indicated in your alert pro-
cedures for an incident at McGuire Nu	clear Station.
NOTE: Record the Name, Title, Date, Time,	and Warning Point at end of
Part II.	
PART II: Followup Emergency Message Infor	mation
1. The type of actual or projected relea	se is:
a. Airborne	
b. Waterborne	
c. Surface spill	
d. Other	
2. The source and description of the rel	ease is:
	-
3a. Release began/will begin at	a.m./p.m.; time since
reactor trip is	
	he release is hours.

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Dose projection b		
Radiological rele	ease:curi	es, orcuries/se
Wind speed:	mph	
Wind direction:	From°	
Stability class:	(	A,B,C,D,E,F, or G)
Release height:	F	t.
Dose conversion f	actor:R	/hr/Ci/M3 (whole body)
	R	/hr/Ci/M3 (Child Thyroid)
Precipitation		
Temperature at th	ne site:	F
Dose projections:		
	*Dose Commitmen	t*
Distance	Whole Body	(Child Thyroid)
	Rem/hour	Rem/hour of inhalat
Site Boundary		
2 miles		
5 miles 10 miles	ected Integrated Do	en In Pent
10 miles	ected Integrated Dos	se In Rem*  Child Thyroid
10 miles *Proj		
10 miles *Proj Distance		
*Proj Distance		
*Proj Distance Site Boundary		
Distance  Site Boundary  miles  miles  miles  miles	Whole Body  of dose rate or cor	Child Thyroid
Distance  Site Boundary  miles  miles  miles  miles  miles  miles  mergency actions	Whole Body	Child Thyroid  ntamination (if available)
Distance  Site Boundary  miles  miles  miles  miles  miles  miles  mergency actions	of dose rate or con	Child Thyroid  ntamination (if available)
Distance  Site Boundary  miles  miles	of dose rate or con	Child Thyroid  ntamination (if available)  cility include:  ganizations:

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10. I repeat, this message	10.	I re	peat,	this	message
----------------------------	-----	------	-------	------	---------

\_\_\_ a. Reports an actual emergency.

\_\_\_\_ b. Is an exercise message.

11. Do you have any questions?

#### \*\*\*END OF FOLLOW-UP MESSAGE\*\*\*

NOTE: Record the name, title, date, time, and warning point notified.

			Communicator
	(Name)		(Title)
			Mecklenburg
	(Date)	(Time)	(Warning Foint
_			Communicator
	(Name)		(Title)
			Gaston
	(Date)	(Time)	(Warning Point)
		-	Communicator
	(Name)		(Title)
			Iredell
	(Date)	(Time)	(Warning Point)
			Communicator
	(Name)		(Title)
			Catawba
	(Date)	(Time)	(Warning Point)
			Communicator
	(Name)		(Title)
	-		Lincoln
	(Date)	(Time)	(Warning Point)
			Communicator
	(Name)		(Title)
			Cabarrus
	(Date)	(Time)	(Warning Point)
			Communicator
	(Name)		(Title)
			North Carolina
-	(Date)	(Time)	(Warning Point)

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## EMERGENCY PLAN MESSAGE FORMAT (Nuclear Station to Nuclear Production Duty Engineer)

1.	This is at McGuire Nuclear Station.
2.	This is/is not a Drill. AnUnusual EventAlert
	Site Area Emergency
	General Emergency
	was declared by the Emergency Coordinator at on Unit Number
3.	Initiating Condition: (Give as close to the emergency procedure description as possible together with station parameters used to determine emergency status)
4.	Corrective Measures Being Taken:
5.	There Have/Have Not been any injuries to plant personnel.
6.	Release of radioactivity: Is/Is not taking place, and is/is not affecting the
	Crisis Management Center.
7.	NRC Yes No, State Yes No, Counties Yes No, have been notified.
8.	The Crisis Management Team should/should not be activated. Corporate
	Communications and Company Management should be notified (Unusual Event Only).
9.	I can be reached at for follow-up information.  (Telephone Number)
	(rerebuone number)
10.	Additional Comments:
10.	



#### DUKE POWER COMPANY PROCEDURE PREPARATION PROCESS RECORD

) STATION: McGuire Nuclear Station	
) PROCEDURE TITLE:Alert	
- we to	
	DATE: 2/22/83
	DATE: Z-24-83
Cross-Disciplinary Review By:	N/R: 9404
TEMPORARY APPROVAL (IF NECESSARY):	
By:(SRO)	Date:
Ву:	Date:
APPROVED BY: Hear a ly	Date: 2-24-83
MISCELLANEOUS:	
Reviewed/Approved By:	_ Date:
Reviewed/Approved By:	Date:

## DUKE POWER COMPANY McGUIRE NUCLEAR STATION ALERT

#### 1.0 Symptoms

1.1 Events are in process or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant.

#### 2.0 Immediate Action

2.1 Automatic

None

- 2.2 Manual
  - 2.2.1 The Shift Supervisor shall be informed of all events initiating this procedure.

#### 3.0 Subsequent Actions

Initial / N/A
---------------

- j 3.1 The Shift Supervisor shall assure that the appropriate emergencycondition (Notification of Unusual Event, Alert, Site Area Emergency, or General Emergency) is declared by evaluating the acutal plant condition with Enclosure 4.1, Emergency Classification Flowchart and Enclosure 4.2, List of Initiating Conditions, Emergency Action Levels, and Associated Emergency Procedure/Document.
- 7 3.2 The Shift Supervisor shall ensure that all actions required by the initiating Emergency Procedure will be performed and that all actions necessary for the protection of persons and property are being taken.

#### NOTE

If at any time in the course of events in this procedure, site evacuation or personnel assembly/accountability appears necessary, refer to Station Directive 3.8.1.

/ 3.3 The Shift Supervisor shall assume the function of the Emergency
Coordinator until the arrival of the Station Manager or his

designee, at which time the Station Manager or his designee assumes the responsibility of the Emergency Coordinator.

3.4 The Emergency Coordinator shall assure prompt (within about 15 minutes of declaring the emergency) notification of the North Carolina State and Local County Warning Points indicated on Enclosure 4.3. He shall also assure notification of all other personnel listed in Enclosure 4.3.

#### NOTE 1

Activation of the Technical Support Center (TSC), and Operations Support Center (OSC) shall be in accordance with Station Directive 3.8.2. Activation of the Crisis Management Center (CMC) shall be in accordance with Enclosure 4.6.

#### NOTE 2

See Enclosure 4.4, Telephone Listing, for notification, telephone numbers/radio codes/pager codes.

#### NOTE 3

See Enclosure 4.5, Notification of Emergency Conditions, for information to be provided to State/County Warning Points.

- 3.5 The Emergency Coordinator in direct contact with the Technical Support Center and the Crisis Management Center will assess and respond to the emergency by:
  - 3.5.1 Dispatching onsite monitoring teams with associated communications equipment.
  - 3.5.2 Providing periodic plant status updates to offsite authorities (at least every 15 minutes).
  - 3.5.3 Providing periodic meteorological assessments to offsite authorities and, if any releases are occurring, dose estimates for actual releases.

#### NOTE

In the event a release or potential release of radioactive materials is a threat to plant personnel or members of the general public, the Emergency Coordinator shall utilize the Operator Aid Computer (OAC)

"NUCLEAR-23" program to assess the offsite consequences. In the event the (OAC) is not operational the Emergency Coordinator shall request Health Physics personnel to evaluate the consequences utilizing the appropriate Health Physics procedure, HP/0/B/1009/05, HP/0/B/1009/06, HP/0/B/1009/08, HP/0/B/1009/09, or HP/0/B/1009/10.

- 3.6 The Emergency Coordinator shall provide protective action recommendations as necessary to the affected county warning point(s) and to the North Carolina warning point (Emergency Operations Centers if established) or to the state Radiological Protection Section, Department of Human Resources (See Enclosure 4.4, Telephone Listing) as directed by the state in accordance with the North Carolina Radiological Emergency response plan. If evaluation indicates that a potential for or an actual release of radioactive materials will result in a projected dose (REM) to the population of: (EPA Protective Action Guidelines).
- 3.6.1 Whole body <1, thyroid <5, NO protective action is required. Monitor environmental radiation levels to verify.
- 3.6.2 Whole body 1 to <5, thyroid 5 to <25, recommend seeking shelter and wait for further instructions. Consider evacuation particularly for children and pregnant women. Monitor environmental radiation levels. Control access to affected areas.
- 3.6.3 Whole body 5 and above, thyroid 25 and above, recommend mandatory evacuation of populations in the affected areas.

  Monitor environmental radiation levels and adjust area for mandatory evacuation based on these levels. Control access to affected areas.

#### NOTE

See Enclosure 4.4 for Telephone Listing for - notification.

\_\_\_\_3.7 The Emergency Coordinator in coordination with the Recovery

Manager at the Crisis Management Center, will assess the emergency

condition and determine the need to remain in an Alert Status,

escalate to a more severe class, reduce the emergency class or close out the emergency.

/ 3.8 The Station Manager or his designee will close out the Emergency with a verbal summary to County and State authorities notified in Step 3.4, followed by a written summary within 8 hours.

#### 4.0 Enclosures

- 4.1 Emergency Classification Guide Flowchart
- 4.2 List of Initiating Conditions, Emergency Action Levels, and Associated Emergency Procedure/Document.
- 4.3 Notification Chart.
- 4.4 Telephone Listing.
- 4.5 Notification of Emergency Conditions.
- 4.6 Emergency Plan Message Format

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# EMERGENCY CLASSIFICATION GUIDE FLOWCHART

ASMERAL EMERGENCY	BMALL ON LANGE BREAK LOCA OCCUSS AND CONTAINER IN FERTONAMICS IS UNSUCCESS. AFERTING, LONGEN SENS SUCCESS OF THE SCCS. COULD LEAD TO CORE DEGRACATION ON MELT IN SEVERAL HOUNS WISHOUT CONTAINMENT	BOUNDARY  1.056 OF 2 OF 2 FISSION PRODUCT BARNIERS WITH POTENTIAL LOSS OF THE THIRD BARNIER	LEADING OF ECCE TO PERFORM LEADING TO COME MELT DEGRADATION OR MELT IN MINUTES	TO HOURS & OBS. OF CONTAINMENT. INTEGRITY MAY BE IMMINENT.	CONTISCOURT MONITORS DETECT LEVELS CONTISCOURT OF OF MAINTEN W. B. BOUNDES ACTUAL METECADOLOGICAL CONDITIONS THE STORD CAN TE ARE POSTETED PARED DOE NATES ARE POSTETED PARED CHO THER FLANT PARAMETERS OR ARE MEASURED IN THE ENVIRONG	TRANSIENT REQUIRING OPERATION OF	BHUTOOWN SYSTEMS WITH FALLURE TO BCRAM ADDITIONAL FAILURE OF CORE COOLING AND MAKEUP SYSTEM WOULD LEAD TO CORE MELT.	TRANSIENT INITIATED BY LOSS OF	GENCY FEEDWATER SYSTEM FOR EX-	IN SEVERAL HOURS WITH ULTIMATE FAILURE OF CONTAINMENT LIKELY IF CORE MELTS.	EVENTS IE G. FIRES BARLOR EXTENNAL EVENTS IE G. FIRES BARTHOLOGES BUSSTANTALLY BEYOND DESIGN BARSIS WHICH COLOG CANDES BARSISVE COMMON DAMAGE TO PLANT SYSTEMS			LOSS OF PHYSICAL CONTROL OF THE	ANY MAJOR INTERNAL OR EXTERNAL COREXTERNAL (VENTS) ELG PIRES, EARTHOUAKES BURSTANTIALLY BEYOND DESIGN BARSIVE COULD CAUSE BARSIVE	COMMON DAMAGE TO THAT EVERTENES FROM WHATEVER ROUNDES INTO THE RELEASE OF LANGE AMOUNTS OF AMOUNTS OF RESIDENCE THAT WE SHOW THE RESIDENCE THAT IN A SHOW THAT THE RESIDENCE THAT IN THE RESIDENCE THAT
Y2M DOS ME MAG NEW Y	ENOWN LOSS OF COOLANT ACCIDENT ILOCAL DESAFFER THAN MARKEUP CAPACITY AND TALUNE OF BEAM GENERATOR TOSES WITH LOSS OF OFFISE FOWER SEVERAL HUNDRED GFM	OF COOLABLE GEOMETRY	BOOM PILLE PREAK WITH GREATER THAN BOOM PILLEAK AGE AND INDICATION		COMMERCIAL MONITORN DETECT LEVELS COMMERCIALINO TO GREATER THAN BO MANUES AT THE SITE SOUNDARY FOR ACCUSTED HE FOR THAN FOR ACCUSTED HE FOR THAN FOR ACCUSTED HE FOR THAN FOR ACCUSTED HE FOR THE SITE SASED DAY OTHER THAN FOR THAN FOR ACCUSTING THAN FOR THE SITE OF A PROFECTIVE ACTION DUDGE HARS HERE PROVICETIVE ACTION DUDGE HARS	DUTSIDE THE SITE BOUNDARY -TRANSIENT REQUIRING OF ERATION OF	SCHOOL CONTINUED POWER WITH FAILUNG TO BEAUTH TO BE SCHOOL CONTINUED POWER IN IMMEDIATE, YE VIDENTIAL TO SO SO FANY FUNCTION NEEDED FOR	ALL CHRITE AC POWER AND LOSS OF— THAN 18 MIN 18 MIN 10 MIN DORSE OF THAN 19 MIN	FOR MONE THAN 18 MIN.	OF BAFETY SYSTEMS CVACUATION OF CONTROL ROOM AND CONTROL OF SHUTBOWN SYSTEMS NOT ESTABLISHED FROM LOCAL STATIONS	MOST ON ALL ALARMS [ANNINCIATORS] LOST AND PLANT [ANNINCIATORS] LOST AND PLANT [FANSIENT INTIATED ON IN PROGRESS	MAJOR DAMAGE TO SPENT FUEL IN CONTAINMENT OR FUEL HANDLING BUILDING	COTHER SEVERE HAZARDS BEING EXPERIENCED OR PROJECTED WITH PLANT NOT IN COLD SHUTDOWN	OF PLANT	SEVERE NATURAL PHENOMENA SCING- EXPERIENCED OR PROJECTÉD WITH PLANT NOT IN COLD SHUTDOWN	OTHER PLANT COMOTIONS EXIST WAS REALING ACTIVATION OF EMPICIAL TENTING AND OF EMPICIAL TENTING AND FINE CAUTIONARY NOTIFICATION TO THE PIBLIC MEAN THE SITE
CAME	GRADAR COOLANT LEAK MATE GRATER THAN BE GRAD GRADE THAN BE GRAD GRADA GRADE AND GRADA GRAD	COD ANT PLANS SEIZURE LEADING TO-	PRIMARY TO BECONDARY LEAK RATE.		HIGHER BADATION LEVELS ORHIGH AIREONE CONTAMINATION HIGH HIGHCATES BEVER GEGRADATION HIGH CONFROL OF ABDIOGRADATION HATSRIAL THAIR 19 THES TECH USETS THAIR 19 THES TECH USETS	FAILURE OF REACTON PROTECTION	A SCAND WHICH SHINDS THE REACTOR EVECATION OF ANY POWERTON OF	ALL ONGITE AC POWER AND LOSS OF ALL ONGITE AC POWER ON TO 10 MIN	PINE POTENTIALLY APPECTING	MATER SYSTEMS  ANTICIPATED ON REQUIRED WITH CONTROL OF SHUTDOWN BYSTEMS	INDET ON ALL ALANAS	PUEL DAMAGE ACCIDENT WITH MELERSE OF RADIOACTIVITY TO CONTAINMENT ON FUEL HANDLING BUILDING	BEVERE MAZANDS BEING EXPERIENCED———————————————————————————————————		EXPENSENCED ON PROJECTED	OTHER PLANT CONDITIONS SHEET— WARRANTHON PRESCRICTORANY WARRANTHON OF THE ISC ANDON THE CRISIS MARAGEMENT CENTER
INDAPAN IVENI	RECOMMENDATION OF THE PRINCE OF THE PROPERTY OF THE PRINCE	THE DAMAGE INDICATION	VALUE IN S SAFETY OR RELET VALUE IN S SAFETY BREATED SYSTEM TO CLOSE POLLOWING A RESALCTION OF APPLICABLE PRESELVE	LOSS OF CONTAMESSAT IN ESCANTY  RECLIFICATION OF MARGINATE SHUTGOWN  RY TECH, SPEC.  LOSS OF ENGINEERS BAPTECTION  FATURE RECLIFICATION  FUNCTION RECLIFIED SHUTDOWN SY  FECH. SPEC.  EMBRIGHEY CODE COOLING SYSTEM  VESSEL INTIATED AND DIRECHARGE TO	PRECIPICATION LIMITS SACEBOED			CHELTE AC POWER CAPABILITY	PIRE WITHIN THE PLANT LASTING		MINOLATIONS ON A LANGE ON PROCESS PUNCTIONING IN CANADA TERM HOT TO AN ENTENT REQUIRING IN CONTROL ROOM TO AN ENTENT REQUIRING AND TO AND TO AND OTHER REQUIRING AND TO AND TO AND ASSESSED TO CONSIDER TO CONSIDER TO AND CAPABILITY		PROJECTED THAT APPECT PLANT OPERATIONS	OR ATTEMPTED SABOTAGE	CAPENDAL PROMENA BEING LEUAL LEVELS OR PROMETED SEYOND	OTHER PLANT COMDITIONS EN MET THAT WARRINGS ON THE PART OF FLANT DOESN'THE GO ON THE PART OF FLANT DOESN'THE GO ON THE PART OF FLANT DOESN'THE ON RECURRED FOR THE ON RECURRED FOR THE ON THE O
EVENT CATEGORY	ABNOOMAL PRIMARY LEAK RATE	ABNORMAL CORE CONDITIONS AND FUEL DAMAGE	STEAM LINE BREAK OR ME NV/IV	TOTHER I COD	FFLUENT OR RADIATION LEVELS	LOSS OF SHUTDOWN FUNCTIONS		CLECTHICAL ON POWER PAILURES-	FIRE	CONTROL ROOM EVACUATION	LUSS OF MUNITORS, ALARMS, S.T.S.			RECORTY THREATS		
	2		a	:		•		=	•					2 3		

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### LIST OF INITIATING CONDITIONS, EMERGENCY ACTION LEVELS, AND ASSOCIATED EMERGENCY PROCEDURE/DOCUMENT

Initiati	ing Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4.2.1	Severe loss of fuel cladding, Mechanical Clad Failure.	a. Very high coolant activity sample indicating an increase of 70µCi/ml in 30 minutes or 350 to 1,750µCi/ml total I-131 Coolant Activity.	
		b. Failed fuel monitor (EMF-48) or leb analysis indicates increase greater than 1% fuel failures within 30 minutes or 5% to 25% total fuel failure.	Tech Specs 3/4.6.7
4.2.2	Rapid gross failure of one Steam Generator tube with loss of off- site power.	Pressurizer low pressure alarm and reactor trip and, pressurizer low level alarm and, pressurizer low pressure safety injection signal and, undervoltage alarm on 7KV buses. EMF 32, 33, and 34 Alarm(s).	EP/1/A/5000/G4, EP/2/A/5000/O4, AP/1/A/5500/O7, AP/2/A/5500/O7
4.2.3	Rapid failure of Steam Generator tube(a).	Several hundred gpm primary to secondary leak rate indicated by:  a. as above in 4.2.2 for pressurizer and EMF indicators.  b. Steam generator level increasing in one or more generator(s) and falling in the others/due to reactor trip.	EP/1/A/5000/04, EP/2/A/5000/04
	•		

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Initiat	ing Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4.2.4	Steam line break with significant primary to secondary leak rate.	Greater than 10gpm, rapidly decreasing reactor coolant Tavg, pressurizer pressure and level and,	EP/1/A/5000/04, EP/2/A/5000/04, EP/1/A/5000/03, EP/2/A/5000/03
		<ol> <li>Steam line differential pressure safety injection signal and increased con- tainment building pressure/ if break is in containment.</li> </ol>	
		2. High steam flow and Lo Lo Tavg or Low steam pressure safety injection signal for rupture downstream of MSIV's.	
4.2.5	Primary coolant leak rate greater than 50 gpm.	Leak >50gpm as indicated by calcu- iation or other indication. (i.e., sump levels)	EP/1/A/5000/02, EP/2/A/5000/02, AP/1/A/5500/10, AP/2/A/5500/10
4.2.6	high radiation levels or high airborne con- tamination which in- dicates a severe de- gradation in the control of radioactive materials.	increase by a factor of 1,000 in radiation monitor reading within the station.	HP/0/R/1009/05
4.2.7	Loss of offsite power and loss of all onsite AC power for up to 15 minutes. (See Site Area Emergency RP/0/A/5700/03, for extended loss).	Undervoltage alarm on 7KV buses, and bizckout load sequencers actuated.	EP/1/A/5000/09, EF/2/A/5000/09
4.2.8	Loss of all onsite DC power.	DC bus undervoltage alarms on all buses.	Tech Specs 3/4.8.2.3, Tech Specs 3/4.8.2.4

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Initiati	ing Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4.2.9	Coolant pump seizure leading to fuel failure.	Reactor coolant pump auto trip alarm, and reactor trip on low coolant flow, and failed fuel monitor alarm EMF48.	AP/1/A/5500/04, AP/2/A/5500/04, AP/1/A/5500/08, AP/2/A/5500/08, OP/0/A/6150/14, AP/1/A/5500/05 AP/2/A/5500/05
4.2.10	Complete loss of func- tions needed for plant cold shutdown.	RHR not functional and inability to sustain natural or forced cir- culation.	AP/1/A/5500/17, AP/2/A/5500/17, OP/1/A/61Q0/04, OP/2/A/61C0/04
4.2.11	Failure of the reactor protection system to initiate and complete a scram which brings the reactor subcritical.	Reactor remains critical after all attempts to trip reactor have been completed.	AP/0/A/5500/34
4.2.12	Fuel damage accident with release of radio-activity to containment or fuel handling building.	Observation of damage to spent fuel assembly, and  1. 1EMF-16 or 17 alarm or 2EMF-3 or 4 alarm.  2. EMF-38, 39, 40, or 42 alarm.	AP/1/A/5500/25, AP/2/A/5500/25
4.2.13	Fire potentially affecting safety systems.	Observation of a fire that could affect safety systems.	Station Directive 2.11 Series, Tech Specs 3/4.5
4.2.14	Most or all alarms (annun- ciators) lost.	As observed.	OP/O/A/6350/01A

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Initiati	ng Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4.2.15	Airborne Radiological effluents >10 times	For EMF35 - Low Range offscale	HP/0/B/1009/05
	Tech Specs instantaneous limits (an instantaneous	High Range 1 x 10 <sup>4</sup> cpm	
	rate which, if continued over 2 hours, would re-	For EMF36 - Low Range 2 x 10 cpm	
	sult in about lmr at the site boundary under average	High Range 5 x 10 <sup>2</sup> cpm	
	meteorological conditions or whomever effects moni-		
	tors radiologic coni- toring detect the als).		
4.2.16	Ongoing security	As reported by Security force.	Station Security Plan
4.2.17	Severe natural phenomens		RP/0/A/5700/06, RP/0/A/5700/07
	being experienced or projected:		
	a. Earthquake greater than Operational Basis Earthquake Levels	>0.08gH, >.053gV, Annunciator Alarm, (AD-13).	
	<ul> <li>Flood, low water, hur- ricane surge, seiche near design levels. (Lake tidal wave)</li> </ul>	As observed.	
	c. Any tornado striking facility.	As observed.	
	d. Hurricane winds near design basis level.	As observed (95 mph)/from National Weather Service information.	
4.2.18	Other hazards being ex- perienced or projected.		RP/0/A/5700/08, RP/0/A/5700/09 AP/1/A/5500/23, AP/2/A/5500/23
	a. Aircraft crash on facility.	As observed.	

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Initiati	ng Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
	b. Missile impacts from whatever source on facility.	As observed.	
	<ul> <li>Know explosion damage to facility affecting plant operation.</li> </ul>	As observed.	
/6/	<ul> <li>d. Entry into facility environs of toxic or flammable gases.</li> </ul>	As observed.	
/	e. Turbine failure causing casing pene-tration.	Turbine trip and observation of turbine malfunction or failure.	
.2.19	Other plant conditions exist that in the judge- ment of the Shift Super- visor, the Operations Duty Engineer, the Superintendent of Opera- tions, or the Plant Manager warrant pre- cautionary activation of the Technical Support Center and near site Crisis Management Center.	As determined by Shift Supervisor/ Emergency Coordinator.	As dictated by Plant Conditions
.2.20	Evacuation of control room anticipated or required with control of shutdown systems established from local	As determined by Shift Supervisor/ Emergency Coordinator.	AP/1/A/5500/17, AP/2/A/5500/17, OP/1/A/6100/04, OP/2/A/6100/04

station.

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## NOTIFICATION/ACTIVATION ALERT

Notify/Activate the following personnel/or Emergency Centers for all Initiating Conditions listed in Enclosure 4.2. (See Enclosure 4.4 for Telephone Listing)

NOTIFY/ACTIVATE	NOTIFICATION COMPLETE-INITIAL
Shift Supervisor	
Operations Duty Engineer	
Station Manager	
Superintendent of Operations	
Superintendent of Technical Services	,
Projects and Licensing Engineer	
Station Health Physicist	
North Carolina State Warning Point	
Mecklenburg County Warning Point	
Lincoln County Warning Point	
Catawba County Warning Point	
Iredell County Warning Point	
Gaston County Warning Point	
Cabarrus County Warning Point	
N.R.C. via ENS (Red Phone)	
N.R.C. Station Representative	
Construction Project Manager	
Superintendent of Maintenance	
Superintendent of Administration	
Activate T.S.C. (Station Directive 3.8.2)	
Activate O.S.C. (Station Directive 3.8.2)	
Activate C.M.C. (Enclosure 4.6)	

#### TELEPHONE LISTING

4.4.1	Operations Duty Engineer (PA Syste P&T Pager -	<b>a</b> )	
4.4.2	Station Manager - System	Speed -	
		Speed -	
4.4.3	Superintendent of Operations - 421 Home - System		
4.4.4	Superintendent of Technical Service Home - System		
4.4.5	Projects and Licensing Engineer - Home System	Speed	
4.4.6	Station Health *  Home - system S  P&T Paget	peed -	
4.4.7	NC State Warning Point, Raleigh -		- System Speed -
4.4.8	Mecklenburg County Warning Point -	Primary: Back-up: Back-up:	Ring Down Phone System Speed Emergency Radio, Code:
4.4.9	Lincoln County Warning Point -	Primary: Back-up: Back-up:	Ring Down Phone System Speed Emergency Radio, Code:
4.4.10	Catawba County Warning Point -	Primary: Back-up:	Ring Down Phone - System Speed
		Back-up:	
4.4.11	Iredell County Warning Point -	Primary: Back-up:	Ring Down Phone - System Speed
		Back-up:	Emergency Radio, Code:
4.4.12	Gaston County Warning Point -	Primary: Back-up: Back-up:	Ring Down Phone - System Speed Emergency Radio, Code:
4.4.13	Cabarrus County Warning Point -	Primary: Back-up:	Rine nem Phone - System Speed
		Back-up:	Emergency Radio, Code:

#### MOTE

- 1. Radio Code .ill activate
- all county radio units.

  2. P&T Pager, Central Division (Charlotte Area)
  Dial -

#### TELEPHONE LIST

4.4.14	N.R.C. Operation Center, Emergency Notification System (ENS Phone)
4.4.15	N.R.C. Station Representative (Bill Orders)  Office -  Home -  P&T Pager -  For P&T Page from Central (MNS Area)
4.4.16	Construction Project Manager Construction , Ext.  Home: - System Speed -
4.4.17	Superintendent of Maintenance  Home - System Speed -
4.4.18	Superintendent of Administration -  Home - System Speed -
4.4.19	Nuclear Production Duty Engineer - System Speed P&T Pager
	Radiation Protection Section. Department of Human Resources-

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#### MCGUIRE NUCLEAR STATION NOTIFICATION OF EMERGENCY CONDITIONS

4.5.1	Inclu	de as a minimum, the following information to the No	orth Carolina
	State	Warning Point, and the six County Warning Points,	(Mecklenburg,
	Cataw	ba, Iredell, Lincoln, Gaston, and Cabarrus).	
	NOTE	1: See Enclosure 4.4, Telephone Listing	
	NOTE	2: A. Complete Part I of this format as a minima	al first
		notification of a reportable incident.	
		B. Complete Part I and II of this format to	provi.de
		minimal followup information.	,
	PART	I: Initial Emergency Message Information	ACKNOWLEDGEMENT
		TELEPHONE RESPONSE:	Mecklenburg
		"This is McGuire Nuclear Station.	Iredell
		Please acknowledge when you are	Lincoln
		ready to copy Emergency Information."	Cabarrus
			Gaston
	1.	This is McGuire Nuclear Station.	Catawba
	2.	My name is:	
	3.	This message (Number):	
		a. Reports a real emergency.	
		b. Is an exercise message.	
	4.	My telephone number/extension is:	•
	5.	Message Authentication:	
	6.	The class of emergency is:	
		a. Notification of an Unusual Event	
		b. Alert	
		c. Site Area Emergency	
		d. General Emergency	
	7.	This Classification of Emergency was declared at:	
		AM	/PM DATE
	8.	The initiating event causing the Emergency Classifi	cation is:
			-
	9.	The Emergency Condition:	
		a. Does not involve the release of radioacti	ve materials
		from the plant.	
		b. Involves the POTENTIAL for a release, but	NO release is
		occurring.	
		c. Involves a release of radioactive materia	1.

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ENCLOS	SURE	4.5	
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10.	We recommend the following protective action:
	a. No protective action is recommended at this time.
	b. People living in zones remain
	indoors with doors and windows closed.
	c. People in zonesEVACUATE
	their homes and businesses.
	d. Pregnant women and children in zones
	remain indoors with the doors and windows closed.
	e. Pregnant women and children in zones
	evacuate to the nearest shelter/reception center.
	f. Other recommendations:
11.	There will be:
	a. A followup message
	b. No further communications
12	I repeat, this message:
	a. Reports an actual emergency.
	b. Is an exercise message.
12	
13.	Relay this information to the persons indicated in your alert pro-
***	cedures for an incident at McGuire Nuclear Station.
NOTE	: Record the Name, Title, Date, Time, and Warning Point at end of
	Part II.
	II: Followup Emergency Message Information
1.	The type of actual or projected release is:
	a. Airborne
	b. Waterborne
	c. Surface spill
	d. Other
2.	The source and description of the release is:
3.	a. Release began/will begin ata.m./p.m.; time since
	reactor trip is hours.
	b. The estimated duration of the release is hours.

.

Radiological relevant speed: Wind speed: Wind direction: Stability class: Release height: Dose conversion in the speed of	mph From(A	curies/sec.  A,B,C,D,E,F, or G)  (hr/Ci/M³ (whole body)
Wind direction: Stability class: Release height: Dose conversion in	From (A	
Stability class: Release height: Dose conversion in	(A 	
Release height: Dose conversion in	Factor: R/	
Precipitation	factor:R/	
Precipitation		hr/C1/M3 (whole hody)
	R,	mirotrin (whole body)
		hr/Ci/M3 (Child Thyroid)
Temperature at th		
	he site:°F	
Dose projections	:	
	*Dose Commitment	*
Distance	Whole Body	(Child Thyroid)
	Rem/hour	Rem/hour of inhalation
Site Boundary		
2 miles		
5 miles		
MARKET WATER TO SERVICE THE PARTY OF THE PAR		
10 miles	jected Integrated Dos	se In Rem*
10 miles	jected Integrated Dos	se In Rem*  Child Thyroid
10 miles *Pro		
10 miles  *Pro		
*Pro Distance Site Boundary		

10.	I repeat,	this message:
	a.	Reports an actual emergency
	b.	Is an exercise message.
11.	Do you has	we any questions?

#### \*\*\*END OF FOLLOW-UP MESSAGE\*\*\*

NOTE: Record the name, title, date, time, and warning point notified.

(1)			Communicator
	(Name)		(Title)
			Mecklenburg
	(Date)	(Time)	(Warning Point)
(2)			Communicator
	(Name)		(Title)
			Gaston
	(Date)	(Time)	(Warning Point)
(3)			Communicator
	(Name)		(Title)
			Iredell
	(Date)	(Time)	(Warning Point)
(4)			Communicator
	(Name)		(Title)
			Catavba
	(Date)	(Time)	(Warning Point)
(5) _			Communicator
	(Name)		(Title)
_			Lincoln
	(Date)	(Time)	(Warning Point)
(6)			Communicator
	(Name)		(Title)
_	/= \	<b>/5:</b>	Cabarrus
	(Date)	(Time)	(Warning Point)
(7)	/57		Communicator
	(Name)		(Title)
_		(7:	North Carolina
	(Date)	(Time)	(Warning Point)

RP/O/A	/570	00/02	
ENCLOS	URE	4.6	
PAGE	1	OF	1

# EMERGENCY PLAN MESSAGE FORMAT (Nuclear Station to Nuclear Production Duty Engineer)

	This is at McGuire Nuclear Station. (Name and Title)
	This is/is not a Drill. AnUnusual Event
	Alert
	Site Area Emergency
	General Emergency
,	was declared by the Emergency Coordinator at on Unit Number
	Initiating Condition: (Give as close to the emergency procedure description as
	possible together with station parameters used to determine emergency status)
	A Section Tolerand
	Corrective Measures Being Taken:
	Corrective Measures Being Taken:  There Have/Have Not been any injuries to plant personnel.
	There Have/Have Not been any injuries to plant personnel.
	There Have/Have Not been any injuries to plant personnel.  Release of radioactivity: Is/Is not taking place, and is/is not affecting the
	There Have/Have Not been any injuries to plant personnel.  Release of radioactivity: Is/Is not taking place, and is/is not affecting the Crisis Management Center.
	There Have/Have Not been any injuries to plant personnel.  Release of radioactivity: Is/Is not taking place, and is/is not affecting the Crisis Management Center.  NRC Yes No, State Yes No, Counties Yes No,
	There Have/Have Not been any injuries to plant personnel.  Release of radioactivity: Is/Is not taking place, and is/is not affecting the Crisis Management Center.  NRCYesNo, StateYesNo, CountiesYesNo, have been notified.
	There Have/Have Not been any injuries to plant personnel.  Release of radioactivity: Is/Is not taking place, and is/is not affecting the Crisis Management Center.  NRC Yes No, State Yes No, Counties Yes No,
	There Have/Have Not been any injuries to plant personnel.  Release of radioactivity: Is/Is not taking place, and is/is not affecting the Crisis Management Center.  NRCYesNo, StateYesNo, CountiesYesNo, have been notified.
	There Have/Have Not been any injuries to plant personnel.  Release of radioactivity: Is/Is not taking place, and is/is not affecting the Crisis Management Center.  NRCYesNo, StateYesNo, CountiesYesNo, have been notified.  The Crisis Management Team should/should not be activated. Corporate  Communications and Company Management should be notified (Unusual Event Only).  I can be reached at for follow-up information.
	There Have/Have Not been any injuries to plant personnel.  Release of radioactivity: Is/Is not taking place, and is/is not affecting the Crisis Management Center.  NRCYesNo, StateYesNo, CountiesYesNo, have been notified.  The Crisis Management Team should/should not be activated. Corporate Communications and Company Management should be notified (Unusual Event Only).
	There Have/Have Not been any injuries to plant personnel.  Release of radioactivity: Is/Is not taking place, and is/is not affecting the Crisis Management Center.  NRCYesNo, StateYesNo, CountiesYesNo, have been notified.  The Crisis Management Team should/should not be activated. Corporate  Communications and Company Management should be notified (Unusual Event Only).  I can be reached at for follow-up information.

# DUKE POWER COMPANY PROCEDURE PREPARATION PROCESS RECORD

(1) ID No: RP/O/A/5700/03
Change(s) 0 to
0 Incorporated

PREPARED BY: M. S. Glover	DATE: 2/22/83
1 /4/1/	DATE: 2-24-73
Cross-Disciplinary Review By:	N/R:
TEMPORARY APPROVAL (IF NECESSARY):	
	Date:
By:(SRO)	
By:(SRO)	Date:
By:(SRO)  By:(SRO)  APPROVED BY: Alega L. Con	Date:
By:(SRO)  By:(SRO)  By:	Date: 2-24-83

# DUKE POWER COMPANY MCGUIRE NUCLEAR STATION SITE AREA EMERGENCY

1.0	Comm	+
1.0	эушр	toms

1.1 Events are in process or have occurred which involve actual or likely major failures of plant functions needed for protection of the public.

# 2.0 Immediate Action

2.1 Automatic

Mone

- 2.2 Manual
  - 2.2.1 The Shift Supervisor shall be informed of all events initiating this procedure.

# 3.0 Subsequent Actions

1

- 3.1 The Shift Supervisor shall assure that the appropriate emergency condition (Notification of Unusual Event, Alert, Site Area Emergency, or General Emergency) is declared by evaluating the actual plant condition with Enclosure 4.1, Emergency Classification Flowchart and Enclosure 4.2, List of Initiating Conditions, Emergency Action Levels, and Associated Emergency Procedure/Document.
- 3.2 The Shift Supervisor shall ensure that all actions required by the initiating Emergency Procedure will be performed and that all actions necessary for the protection of persons and property are being taken.

# NOTE

If at any time in the course of events in this procedure, site evacuation or personnel assembly/accountability appears necessary, refer to Station Directive 3.8.1.

3.3 The Shift Supervisor shall assume the function of the Emergency

Coordinator until the arrival of the Station Manager or his designee at which time the Station Manager or his designee assumes the responsibility of the Emergency Coordinator.

3.4 The Emergency Coordinator shall assure prompt (within about 15 minutes of declaring the emergency) notification of the North Carolina State and Local County Warning Points indicated on Enclosure 4.3. He shall also assure notification of all other personnel listed in Enclosure 4.3.

# NOTE 1

Activation of the Technical Support Center (TSC), Operations Support Center (OSC), shall be in accordance with Station Directive 3.8.2. Activation of the Crisis Management Center (CMC) shall be in accordance with Enclosure 4.6.

# NOTE 2

See Enclosure 4.4, Telephone Listing, for notification, telephone numbers/radio codes/pager codes.

# NOTE 3

See Enclosure (%5, Notification of Emergency Conditions to be provided to State/County Warning Points.

- 3.5 The Emergency Coordinator in direct contact with the Technical Support Center and the Crisis Management Center will assess and respond to the emergency by:
  - 3.5.1 Dispatching the Onsite and Offsite Monitoring teams with associated communications.
  - 3.5.2 Providing meteorological and dose estimates to offsite authorities for actual releases via a dedicated individual or automated data transmission.
  - 3.5.3 Providing release and dose projections based on available plant condition information and foreseeable contingencies to offsite authorities.

# NOTE

In the event a release or potential release of radioactive materials is a threat to plant personnel or members of the general public, the Emergency Coordinator shall utilize the Operator Aid Computer (OAC)
"NUCLEAR-23" program to assess the offsite consequences.
In the event the (OAC) is not operational the Emergency
Coodinator shall request Health Physics personnel to
evaluate the consequences utilizing the appropriate
Health Physics procedure, HP/O/B/1009/05,
HP/O/B/1009/06, HP/O/B/1009/08, HP/O/B/1009/09,
HP/O/B/1009/10.

- 3.6 The Emergency Coordinator shall provide protective action recommendations as necessary to the affected county warning point(s) and to the North Carolina Warning Point (Emergency Operations Centers if established) or the Radiological Protection Section, Department of Human Resources (see Enclosure 4.4, Telephone Listing) as directed by the state in accordance with the North Carolina Radiological Emergency response plan. If evaluation indicates that a potential for or an actual release of radioactive materials will result in a projected dose (REM) to the population of: (EPA Protective Action Guidelines).
  - 3.6.1 Whole bod 1, thyroid <5, NO protective action is required. Monitor environmental radiation levels to verify.
  - 3.6.2 Whole body I to <5, thyroid 5 to <25, recommend seeking shelter and wait for further instructions, consider evacuation particularly for children and pregnant women. Monitor environmental radiation levels and adjust area for mandatory evacuation based on these levels. Control access to affected areas.
  - 3.6.3 Whole body 5 and above, thyroid 25 and above, recommend mandatory evacuation of populations in the affected areas. Monitor environmental radiation levels and adjust area for mandatory evacuation based on these levels. Control access to affected areas.

### NOTE

See Enclosure 4.4, Telephone Listing for notification.

3.7 The Emergency Coordinator in coordination with the Recovery

Manager, at the Crisis Management Center, will provide or make available:

- 3.7.1 A dedicated individual for plant status updates to offsite authorities and periodic press briefings.
- 3.7.2 Senior technical and management staff onsite available for consulation with the NRC and State on a periodic basis.
- 3.8 The Emergency Coordinator in coordination with Recovery Manager at the Crisis Management Center, will assess the emergency condition and determine the need to remain in a Site Area Emergency, escalate to a more severe class, reduce the emergency class, or close out the emergency.
- 3.9 The Recovery Manager at the Crisis Management Center will close out or recommend reduction of the emergency class, by briefing of offsite authorities at the Crisis Management Center or by phone if necessary, followed by written summary within 8 hours.

# 4.0 Enclosures

- 4.1 Emergency Classification Guide Flowchart
- 4.2 List of Initiating Conditions Emergency Action Levels, and Associated Emergency Procedure/Document.
- 4.3 Notification Chart.
- 4.4 Telephone Listing.
- 4.5 Notification of Emergency Conditions.
- 4.6 Emergency Plan Message Format

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# EMERGENCY CLASSIFICATION GUIDE FLOWCHART

SENEDO: EMEDIENEZ	BAVALL OR LANGE BREAK COCA OCCUMA AND COM LANNER WI PERFORMANCE IS UNSUCCESSOR THE ECCI: COULD LA DA D'O COME DEGRADATION OR SIELT IN BEVER HOUNDAR WITHOUT CONTAINMENT ACHIEVE	LOGIO OF 20 PO SIGNA PRODUCTY  ANGELLO OF LANGE LOGS OF  THE CANADAL OF LANGE LOGA WITH  EAMALL OF LANGE LOGA WITH  EADING TO CORE MELT IN MINUTES  TO HOUSE LOSS OF CONTAINES  INTEGRITY MAY 86 IMMINEST.	CORPESSONING TOR DESCRIPTION OF SECTION AND SECTION AN	TRANSIENT PROUINING OPERATION OF TO SCRAM ADDITIONAL FAILURE CORE COOLING AND MAKEUF SYSTEM WOULD LEAD TO CORE MELT.	PRINCIPLE HEAT REMOVAL BYSTEMS POLICIPLE HEAT REMOVAL BYSTEMS POLICIMED BY PAILURE OF BRIST-	GENTY FERONZIS SYSTEM FOR EX- TENDED FRIOD, CORE MELT FOSSIEL M BEVERAL HOURS WITH GLITHATE FAILURE OF CONTAINMENT LIKELY IF CORE MELTS.	ANY MAJOR INTERNAL OR EXTERNAL EVENTS (E. O. FIRES, EARTHGUARE BUSET ANT MALLY BE YOND DESIGN BASES OF COMMON DAMAGE TO PLANT SYSTEMS		PACLITY PACLIT	OTHER PLANT CONDITIONS EXENTED TO THE PROPERTY OF BOUNDS OF MAKE THEN BAKE THE THE PROPERTY THE PROPERTY THE BATE
EVE ABLA EMENGENCY	LOCATION LOSS OF COOLANT ACCIDENT LOCATION AND AND AND AND AND AND AND AND AND AN	OF FUEL DAMAGE AND INDICATION	EFFLUENT MONHTONE DITECT LEVELS CDRRESCONDING TO DREATER THAN BO MANAN FOR MINDLE OF DREATER THAN MAS MANHE WE. FOR TWO THAN MAS MANHE WE. FOR TWO THESE TOORS FATE BOUNDAN FOR ADVENCE MET FOR TWO ON AT MET THE MET TO THE TO ON AT MET THE TO THE TO AND THE TO THE TO THE TO AND THE TO THE TO THE TO ON THE TO ON THE TO ON THE TO ON THE TO THE	TRANSISKY REGUISING OFSEATION OF SHUTDOWN SYSTEMS WITH FAILURE TO BURAM (CONTINUED FOWER GEAM (CONTINUED FOWER BURAM CONTINUED FOWER MANG DAYER VENDENT) PLANT LOT SHUTTOWN	ALL ONSITE ACPORER AND LOSS OF ALL ONSITE AC POWER POR MORE THAN 15 MIN LOSS OF ALL VITAL CHRITE DC FOWER	FOR MODER THAN BE BAN.  FOR AGENT WINSTER THE FUNCTIONS  OF BARETY BYRSTER THE FUNCTIONS  CONTROL OF SHITTDOWN BYRSTERS NOT  BETABLISHED FROM LOCAL STATIONS  HE BE BAN.	- MOST OR ALL ALLSHING LANUNGLATORS LOST AND PLANT TRANSICIAT INITIATED OR IN PROGRESS	MAJOR DAMAGE TO BENT FUEL IN CONTAINMENT OR FUEL HANDLING BUILDING BUILDING GREENES OF STRUCK EARTHOLE OF THE PLANT WOYN FLANT NOT IN COLD BUILTDOWN	OF PLANT HOSE OF PHYSICAL CONTROL OF PLANT IN THE PRENOMEN A SEND SEVERIENCED ON PROJECTED WITH PLANT NOT IN COCD SHUTDOWN	- GTHER TANK CONDITIONS REST.  WARRANTING ACTIVATION OF  BASERGENCY CENTERS AND  MONITORING IT AMS ON ISSUANCE OF A  PRECAUTIONARY NOTITICATION  TO THE PUBLIC NEAR THE SITE
1346	PRIMARY COOLANT LEAK RATE  ORSATER TOAK 59 GPM SOF ASTE AND LOSE OF STRAW  GENERATOR TUSK AND LOSE OF OFF  STE FOWER OR RAPIE FAILURE OF  STEAM GENERATOR TUSK (8).	PRIMARY TO BECONDARY LEAK RATE.	HIGH RA DESTOR LEVENE OF WHICH HIGHENES BEVER BE OR DESCRIPTION IN CONTROL OF RADIOACTIVE MATERIA.  THAN 18 THES TECH. BFC. BFC. HIGHENES TECH. BFC.	PARLURG OF REACTOR PROTECTION  RATER TO WHITH IT AND COMPLETE  RECENTLE TO SO ANY PUNCTION  WISDED FOR PLANT COLD SHUTDOWN	ALL CHAPTE AC POWER AND LOSS OF	PIRE POTENTIALLY APPECTING  BARETY VENTEME  BARETY STREEM  CONTROL OF SHUTDOWN SVETTURE  ESTABLISHED FROM LOCAL STREEM	(AMHUMICATORS) LOST	PELE DAMAGE ACCIDENT WITH PELE ASE OF FACIOACTIVITY TO CONTAINED TO FUEL HANDLING BUILDING BU	EXPENSENCED ON PROJECTED	THE PLANT COMDITIONS EXIST  WANTED PRECAUTIONARY ACTIVATION OF THE TSC ANSION THE CRISIS MANAGEMENT CENTER
THE THE PERSON	BECOMBLY LAKE ANTE TOWNS OF THE TREATE THE THE THE TREATE	THE DAMAGE INDEADOAL TOWN  THE DAMAGE TO ABSOLDANT TELET. TELET  THE SALVER OR ASPONDANT FOR THE TELET.  THE SALVER OR ASPONDANT TELET.  THE SALVER OR ASPONDANT TELET.  THE SALVER OR ASPONDANT TELET.  THE SALVER OR THE SALVERT TOWN  THE SALVER OR THE SALVER TOWN  THE SALVER	Precipication Lants exceeded		ONSITS AC POWER CAPABILITY	More Than 18 MINUTES	INTELLATIONS ON ALCARDS ON TROCKS STATEMENT OF THE WORLD TO THE WORLD TO AN ALCARD TO THE WORLD TO AN ALCARD TO AN ALCARD TO AN ALCARD TO AN ALCARD OF THE WILLIAM TO COMMUNICATION OF THE WILLIAM TO THE COMMUNICATION OF COMMUNICATION OF COMMUNICATION	PROJECTED THAT APPECT PLANT OFFRATIONS	MITY THREAT TEMPTED BA THENCED OF I LEVELS	OTHER PART CADATIONS WERE THAT THE PART THE PART TO PER ATTENDED AND RESERVED ON THE PART TO PER ATTENDED ATTENDED ON THE PART THE PART THE PART THE PER AND PER ATTENDED ON THE PER ATTEN
INCRIT CATEGORY					2) ELECTRICAL ON POWER PAILURES	BI CONTROL ROOM SYACUATION		12) HAZANDŞ TO PLANT OPERATIONS		

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# LIST OF INITIATING CONDITIONS, EMERGENCY ACTION LEVELS, AND ASSOCIATED EMERGENCY PROCEDURE/DOCUMENT

Initiat	ing Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document	
4.2.1	Known loss of coolant accident greater than makeup pump capacity.	Pressurizer low pressure reactor trip and pressurizer low pressure safety injection signal and high containment building pressure, (NSP5040, 5050, 5060, 5070) and high containment building sump level, (NIP5260, 5270) and high containment humidity, (NSP5400, 5410) and EMF 38, 39, and 40 alarm.	EP/1/A/5000/02, EP/2/A/5000/02	
4.2,2	Degraded core with possible loss of coolable geometry (indicators should include instrumentation to detect inadequate core cooling, coclant activity and/or containment radioactivity levels).	Inadequate Core Cooling:  5 centrally located thermocouples indicate core exit temperature greater than 1200°F.  For Mechanical Clad Failure:  Greater than 25% failed fuel indicated by greater than 1,750μC1/ml I-131 concentration.  For Severe Fuel Over Temperature:  From 1% to 10% failed fuel indicated by 1,300 to 13,000μC1/ml I-131 concentration.  For Fuel Melt:  From .5% to 5% failed fuel indicated by 1,180 to 11,800μC1/ml I-131 concentration.	AP/1/A/5500/05, AP/2/A/5500/05	
4.2.3	Rapid failure of steam generator tubes with loss of offsite power (e.g., several hundred gpm pri- mary to secondary leak rate).	Pressurizer low pressure alarm and reactor trip, and pressurizer low level alarm, and EMF 32, 33, and 34 alarm, and undervoltage alarms on 7KV buses, and steam generator water level rapidly increasing in one or more steam generators falling in the others, and pressurizer level rapidly decreasing, (NCP5151, 5160, 5172) and possible lifting of steam generator PRV's and/or safety valves.	EP/1/A/5000/04, EP/2/A/5000/04 AP/1/A/5500/07, AP/2/A/5500/07	

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Initiat	ing Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4.2.4	Steam line break with greater than 50gpm primary to secondary leakage and indication of fuel damage,	Rapidly decreasing reactor coolant Tavg, pressurizer pressure and level. Steam line differential pressure safety injection signal, and High containment building pressure, if steamline break is in containment (NSP5040, 5050, 5060, 5070) and EMF 51A and/or B alarm, or high steam flow and Lo Lo Tavg or low steam pressure safety injection signal, and EMF 48 alarm.	EP/1/A/5000/03, EP/2/A/5000/03
4.2.5	Loss of offsite power and loss of onsite AC power for more than 15 minutes.	Undervoltage alarms on 7KV buses.	AP/1/A/5500/07, AP/2/A/5500/07
4.2.6	Loss of all vital onsite DC power for more than 15 minutes,	Blackout load sequencers actuated, DC bus undervoltage all buses and indications as in 4.2.5 above.	Tech Specs 3/8.2.3, 3/8.2.4
4.2.7	Complete loss of any function needed for plant hot shutdown.	Inability to establish charging pump injection, and Inability to establish emergency feedwater flow, or Inability to establish service water flow, and Inability to establish component cooling water flow.	OP/1/A/6100/04, OP/2/A/6100/04, AP/1/A/5500/17, AP/2/A/5500/17
4.2.8	Transient requiring opera- tion of shutdown systems with failure to scram (continued power genera- tion but no core damage immediately evident).	Reactor remains critical after all attempts to trip reactor have been completed.	EP/1/A/5000/01, EP/2/A/5000/01, AP/0/A/5500/34

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Initiatin	g Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4,2.9	Major damage to spent fuel in containment or fuel handling building (e.g., large object damages fuel or water loss below fuel level).	Observation of major damage to one or more spent fuel assemblies, and/or spent fuel pool water below fuel level and 1EMF-16 & 17, 2 EMF-3 or 4 or EMF -38, 39, 40 or 42 alarms.	AP/1/A/5500/25, AP/2/A/5500/25
4.2.10	Fire compromising the function of safety systems,	Observation of a major fire that defeats redundant safety system or function.	Tech Specs 3/4.5. Station Directive 2.11 Series
4.2.11	Most or all alarms (annunciators) lost and plant transient initiated or in progress.	As determined by the Shift Supervisor/ Emergency Coordinator.	OP/O/A/6350/01A
4.2,12	Airborne radiological effluent monitors detect levels corresponding to greater than 50 mr/hr for 1/2 hour or greater than 500 mr/hr W.B. for two minutes (or five times	For EMF35 Low Range, offscale  High Range 8 x 10 cpm.  (See Note 1)  For EMF36 Low Range 3 x 10 cpm  High Range 7 x 10 cpm  (See Note 1)	HP/0/B/1009/05, HP/0/B/1009/09
	these levels to the thy- roid) at the site boundary for adverse meteorology (See Note 2).	For EMF37 Change of 143 cpm/minute for 30 minutes or a change of 1430 cpm/minute for 2 minutes (See Note 1).	
		NOTE 1: These values are worst case calculations and may not reflect more favorable weather conditions.	

Initiating Conditions

Emergency Action Level (RAL)

side the site boundary).

Emergency Procedure/Document

4.2.13 Imminent Hose of physical control of plant.

Physical attack on the plant involving imminent occupancy of control room and auxiliary shutdown panels.

NOTE 2: These dose rates are projected based on other plant parameters (e.g., radiation level in containment with leak rate appropriate for existing containment pressure) or are measured in the environs. (EPA Protective Action Guidelines are projected to be exceeded out-

Station Security Plan

RP/0/A/5700/06, RP/0/A/5700/07

4.2.14 Severe natural phenomens being experienced or projected with plant not in cold shutdown.

(>.15gH, >.1gV) as determined by monitoring seismic instrumentation and recording devices. (SMP-1)

4.2.14.1

quake) levels.

As determined by Shift Supervisor/ Emergency Coordinator.

4.2.14.2

Flood, low water, hurricane surge, seiche greater than design levels (lake tidal waves) or failure of protection of vital equipment at lower levels.

Earthquake greater than

SSE (Safe Shutdown Earth-

4.2.14.3

Sustained winds or tornadoes in excess of design levels.

(>95mph) as observed or documented by the National Weather Service Information.

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Initiating Conditions		Emergency Action Level (EAL)	Emergency Procedure/Document		
4.2,15	Other hazards being ex- perienced or projected with plant not in cold shutdown.		RP/0/A/5700/08,	RP/0/A/5700/09	
	4.2.15.1			. '	
	Aircraft crash affecting vital structures by impact or fire.	Aircraft crash causing damage or fire to: Containment Building, Control Room, Auxiliary Building, Fuel Building, or Intake Structure,			
	4.2,15.2				
	Severe damage to safe shutdown equipment from missiles or explosion.	Loss of functions needed for hot shutdown as in 4.2.7.			
	4.2.15.3				
	Entry of uncontrolled flammable gases into vital areas. Entry of uncontrolled toxic gases into vital areas where lack of access to the area constitutes a safety problem.	Entry of uncontrolled or toxic or flammable gases into: Control Room, Cable Spreading Room, Containment Building, Switchgear Room, Safe Shutdown Panels or Diesel Rooms.			

RP/O/A/5700/03 ENCLOSURE 4.2 PAGE 6 OF 6

Initiati	ng Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4.2.16	Other plant conditions exist that in the judge- ment of the Shift Super- visor, the Operations Duty Engineer, the Super- intendent of Operations, or the Plant Manager war- rant activation of emer- gency centers and moni- toring teams and a precautionary public notification to the public near the site.	As determined by Shift Supervisor/ Emergency Coordinator,	As dictated by Plant Conditions.
4.2.17	Evacuation of control room and control of shut- down systems not established from local stations in	As determined by Shift Supervisor/ Emergency Coordinator.	OP/0/A/6350/02, AP/1/A/5500/17, AP/2/A/5500/17

15 minutes.

RP/0/1	A/570	00/03	
ENCLO:	SURE	4.3	
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# NOTIFICATION/ACTIVATION GENERAL EMERGENCY

Notify/Activate the following personnel/or Emergency Centers for all Initiating Conditions listed in Enclosure 4.2. (See Enclosure 4.4 for Telephone Listing)

NOTIFY/ACTIVATE	NOTIFICATION COMPLETE-INITIAL
Shift Supervisor	
Operations Duty Engineer	
Station Manager	
Superintendent of Operations	
Superintendent of Technical Services	
Projects and Licensing Engineer	
Station Health Physicist	
North Carolina State Warning Point	
Mecklenburg County Warning Point	
Lincoln County Warning Point	
Catawba County Warning Point	
Iredell County Warning Point	
Gaston County Warning Point	
Cabarrus County Warning Point	
South Carolina State Warning Point	
N.R.C. via ENS (Red Phone)	
N.R.C. Station Representative	
Superintendent of Maintenance	
Superintendent of Administration	
Construction Project Manager	
Activate T.S.C. (Station Directive 3.8.2)	
Activate O.S.C. (Station Directive 3.8.2)	
Activate C.M.C. (Enclosure 4.6)	

# TELEPHONE LISTING

4.4.1	Operations Duty Engineer (PA Syste P&T Pager -	m) .	
4.4.2	Station Manager Bome - System		
4.4.3	Home System  Superintendent of Operations -	Speed -	
	Home - System	Speed -	
4.4.4	Superintendent of Technical Servic		
4.4.5	Projects and Licensing Engineer - Home - System	Speed .	
4.4.6	Station Health Physicist - Home - System S P&T Pager	peed -	
4.4.7	NC State Warning Point, Raleigh -		- System Speed -
4.4.8	Mecklenburg County Warning Point -	Back-up:	
4.4.9	Lincoln County Warning Point -	Primary: Back-up: Back-up:	- System Speed
4.4.10	Catawba County Warning Point -	Primary: Back-up:	Ring Nown Phone System Speer
		Back-up:	
4.4.11	Iredell County Warning Point	Primary: Back-up: Back-up:	Ring Down Phone - System Speed Emergency Radio, Code:
4.4.12	Gaston County Warning Point -	Primary: Back-up: Back-up:	Ring Down Phone - System Speed Emergency Radio, Code:
4.4.13	Cabarrus County Warning Point -	Primary: Back-up:	Ring Down Phone
		Back-up:	- System Speed Emergency Radio, Code:-

# NOTE

- Badio Code sill activate
  all county radio units.
   P&T Pager, Central Division (Charlotte Area)
  Dial -

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# TELEPHONE LIST

4.4.14	SC State Warning Point -
4.4.15	N.R.C. Operation Center, Emergency Notification System (ENS Phone)
4.4.16	N.R.C. Station Representative (Bill Orders)  Office  Bome -  P&T Pager  For P&T Page from Central (MNS Area) .
4.4.17	Construction Project Manager Construction . Ext.  Home: System Speed - system Speed -
4.4.18	Superintendent of Maintenance  Home System Speed -
4.4.19	Superintendent of Administration  Home - System Speed -
4.4.20	Nuclear Production Pacy Engineer - System Speed P&T Pager
4.4.21	Radiation Protection Section, Mepartment of Human Resources-

# MCGUIRE NUCLEAR STATION NOTIFICATION OF EMERGENCY CONDITIONS

4.5.1	Include as a minimum, the following information to the No	orth Carolina
	State Warning Point, the six County Warning Points, (Mec	klenburg, Catawba,
	Iredell, Lincoln, Gaston, and Cabarrus) and the South Car	rolina Warning Point.
	NOTE 1: See Enclosure 4.4, Telephone Listing	
	NOTE 2: A. Complete Part I of this format as a minimum	al first
	notification of a reportable incident.	
	B. Complete Part I and II of this format to	provide
	minimal followup information.	
	PART I: Initial Emergency Message Information	ACKNOWLEDGEMENT
	TELEPHONE RESPONSE:	Mecklenburg
	"This is McGuire Nuclear Station.	Iredell
	Please acknowledge when you are	Lincoln
	ready to copy Emergency Information."	Cabarrus
		Gaston
	1. This is McGuire Nuclear Station.	Catawba
	2. My name is:	
	3. This message (Number):	
	a. Reports a realsemergency.	
	b. Is an exercise message.	
	4. My telephone number/extension is:	
	5. Message Authentication:	·
	6. The class of emergency is:	
	a. Notification of an Unusual Event	
	b. Alert	
	c. Site Area Emergency	
	d. General Emergency	. \
	7. The Classification of Emergency was declared at:	
	AM/	
	8. The initiating event causing the Emergency Classifi	cation is:
		-
	9. The Emergency Condition:	wa matawiala
	a. Does not involve the release of radioacti	ve materials
	b. Involves the POTENTIAL for a release, but	NO release to
		NO LETERDE TR
	c. Involves a release of radioactive materia	1.
	C. INVOIVES a release of radioactive materia	. ,

LU.	we recommend the following proceeding action.
	a. No protective action is recommended at this time.
	b. People living in zones remain
	indoors with doors and windows closed.
	c. People in zonesEVACUATE
	their homes and businesses.
	d. Pregnant women and children in zones
	remain indoors with the doors and windows closed.
	e. Pregnant women and children in zones
	evacuate to the nearest shelter/reception center.
	f. Other recommendations:
11.	There will be:
	a. A followup message
	b. No further communications
12.	I repeat, this message:
	a. Reports an actual emergency.
	b. Is an exercise message.
13.	Relay this information to the persons indicated in your alert pro-
	cedures for an incident at McGuire Nuclear Station.
NOTE	Record the Name, Title, Date, Time, and Warning Point at end of
	Part II.
PART	II: Followup Emergency Message Information
1.	The type of actual or projected release is:
	a. Airborne
	b. Waterborne
	c. Surface spill
	d. Other
2.	The source and description of the release is:
3.	a. Release began/will begin ata.m./p.m.; time since
	reactor crip is hours.
	b. The estimated duration of the release is hours.

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			3 OF 4
Dose projection	base data:		
Radiological rel	ease:cur	des, or	curies/sec
Wind speed:	mph	1	
Wind direction:	From		
Stability class:		(A,B,C,D,E,F	, or G)
Release height:		Ft.	
Dose conversion	factor:	R/hr/C1/M3 (	whole body)
		R/hr/Ci/M3 (	Child Thyroid)
Precipitation			
Temperature at t	he site:	°F	
Dose projections			
		ent*	
	*Dose Commitme	ent*	
Distance			hild Thyroid)
	*Dose Commitme	(0	
Distance	*Dose Commitme	(0	
Distance Site Doumdary	*Dose Commitme	(0	
Distance Site Doundary 2 miles	*Dose Commitme	(0	
	*Dose Commitme	(0	hild Thyroid) our of inhalatio
Distance Site Doundary 2 miles 5 miles	*Dose Commitme	(C) Rem/h	
Distance Site Doundary 2 miles 5 miles	*Dose Commitme Whole Body Rem/hour	Cose In Rem*	
Distance  Site Doundary  2 miles  5 miles  10 miles  *Pro	*Dose Commitme Whole Body Rem/hour	Cose In Rem*	our of inhalation
Distance Site Doundary 2 miles 5 miles 10 miles *Pro	*Dose Commitme Whole Body Rem/hour	Cose In Rem*	our of inhalation
Distance  Site Doundary  2 miles  5 miles  *Pro  Distance  Site Boundary	*Dose Commitme Whole Body Rem/hour	Cose In Rem*	our of inhalation

Fi	ald measurement of dose rate or contamination (if available)
East	ergency actions underway at the Eacility include:
One	site support needed from offsite organizations:
	Reactor is: not tripped/tripped

Prognosis is: stable/improving/degrading/unknown.

Plant is at: \_\_ % power/hot shutdown/cold shutdown/cooling down

	_			E 4 OF 4
10.	I repeat	t, this mes	isage:	
	a.	Reports	an actual emergency.	
	b.	Is an ex	cercise message.	
11.	Do you	have any qu	nestions?	
			IND OF FOLLOW-UP MESSAGE***	
NAME				
NOTE	: Kecor	d the name,	title, date, time, and warn	ing point notified
	(1)	/**		Communicator
		(Name)		(Title)
				Mecklenburg
		(Date)	(Time)	(Warning Point
	(2)			
	(2) _	(Name)		(Title)
		()	•	(11010)
	_			Gaston
		(Date)	(Time)	(Warning Point)
	(3)			Communicator
		(Name)		(Title)
	_	(Date)	(Time)	[Warning Point]
		(Date)	(1111)	(warming round)
	(4)			Communicator
		(Nama)		(Title)
				Catawba
		(Date)	(Time)	(Warning Point)
	/81			
	(5)	(Name)		(Title)
		()		(IIIIE)
	_			Lincoln
		(Date)	(Time)	(Warning Point)
	(6)	-		Communicator
	-	(Name)		(Title)
	_	(Date)	(Time)	(Warning Point)
		(2222)	(	(warming roine)
	(7)	(m)		Communicator
		(Name)		(Title)
				North Carolina
		(Date)	(Time)	(Warning Point)
	(9)			
	(8)	(Name)		(Title)
		()		(*****)
	_	75	/#:	South Carolina
		(Date)	(Time)	(Warning Point)

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ENCLOS			
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-	THE REAL PROPERTY.		-

# EMERGENCY PLAN MESSAGE FORMAT (Nuclear Station to Nuclear Production Duty Engineer)

This is(Name and Title	at McGuire Nuclear Station.
(Name and Title	•)
This is/is not a Drill. An _	Unusual Event
_	_Alert
_	Site Area Emergency
_	General Emergency
was declared by the Emergency	Coordinato at on Unit Number
Initiating Condition: (Give	as close to the emergency procedure description as
	n parameters used to determine emergency status)
	· · · · · · · · · · · · · · · · · · ·
Corrective Measures Being Tak	en:
Corrective Measures Being Tak	en:
Corrective Measures Being Tak	
Corrective Measures Being Tak	
	en:
There Have/Have Not been any	injuries to plant personnel.
There Have/Have Not been any Release of radioactivity: Is/	en:
There Have/Have Not been any Release of radioactivity: Is/ Crisis Management Center.	injuries to plant personnel.  Is not taking place, and is/is not affecting the
There Have/Have Not been any Release of radioactivity: Is/ Crisis Management Center. NRC Yes No, State	injuries to plant personnel.
There Have/Have Not been any Release of radioactivity: Is/ Crisis Management Center. NRC Yes No. State have been notified.	injuries to plant personnel.  Is not taking place, and is/is not affecting the  YesNo, CountiesYesNo,
There Have/Have Not been any Release of radioactivity: Is/ Crisis Management Center. NRC Yes No, State have been notified. The Crisis Management Team sh	injuries to plant personnel.  Is not taking place, and is/is not affecting the  YesNo, CountiesYesNo,  ould/should not be activated. Corporate
There Have/Have Not been any Release of radioactivity: Is/ Crisis Management Center. NRC Yes No, State have been notified. The Crisis Management Team sh Communications and Company Ma	injuries to plant personnel.  Is not taking place, and is/is not affecting the  YesNo, CountiesYesNo,  ould/should not be activated. Corporate nagement should be notified (Unusual Event Only).
There Have/Have Not been any Release of radioactivity: Is/ Crisis Management Center. NRC Yes No, State have been notified. The Crisis Management Team sh Communications and Company Ma	injuries to plant personnel.  Is not taking place, and is/is not affecting the  YesNo, CountiesYesNo,  ould/should not be activated. Corporate  nagement should be notified (Unusual Event Only).  for follow-up information.

# DUKE POWER COMPANY PROCEDURE PREPARATION PROCESS RECORD

(2)	STATION: McGuire Nuclear Station	
(3)	PROCEDURE TITLE: General Emergency	
	PREPARED BY: M. S. Glover	2/22/22
4)	PREPARED BY: M. S. Glover	DATE: 2/22/83
5)	REVIEWED BY: 15 Hillest	DATE: 2-24-83
	Cross-Disciplinary Review By:	N/R: ALDY
6)	TEMPORARY APPROVAL (IF NECESSARY):	
	By:(SRO)	Date:
	Ву:	Date:
7)	APPROVED BY: Segra Cy	
8)	MISCELLANEOUS:	
	Reviewed/Approved By:	Date:
	Reviewed/Approved By:	Date:

# DUKE POWER COMPANY McGUIRE NUCLEAR STATION GENERAL EMERGENCY

TOO CAMPEGMS	1.0	S	ymp	toms
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1.1 Events are in process or have occurred which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity.

# 2.0 Immediate Action

2.1 Automatic

None

- 2.2 Manual
  - 2.2.1 The Shift Supervisor shall be informed of all events initiating this procedure.

# 3.0 Subsequent Actions

Ini	t1.	21	/N/	A
		-	241	

- / 3.1 The Shift Supervisor shall assure that the appropriate emergency condition (Notification of Unusual Event, Alert, Site Area Emergency, or General Emergency) is declared by evaluating the actual plant condition with Enclosure 4.1, Emergency Classification Flowchart and Enclosure 4.2, List of Initiating Conditions, Emergency Action Levels, and Associated Emergency Procedure/Document.
  - 3.2 The Shift Supervisor shall ensure that all actions required by the initiating Emergency Procedure will be performed and that all actions necessary for the protection of persons and property are being taken.

## NOTE

If at any time in the course of events in this procedure, site evacuation or personnel assembly/ accountability appears necessary, refer to Station Directive 3.8.1.

7 3.3 The Shift Supervisor shall assume the function of the Emergency Coordinator until the arrival of the Station Manager or his designee, at which time the Station Manager or his designee assumes the responsibility of the Emergency Coordinator. 3.4 The Emergency Coordinator shall assure prompt (within about 15 minutes of declaring the emergency) notification of the North Carolina State and Local County Warning Points indicated on Enclosure 4.3. He shall also assure notification of all other personnel listed in Enclosure 4.3.

# NOTE 1

Activation of the Technical Support Center (TSC) and Operations Support Center (OSC) shall be in accordance with Station Directive 3.8.2. Activation of the Crisis Management Center (CMC) shall be in accordance with Enclosure 4.6.

# NOTE 2

See Enclosure 4.4, Telephone Listing, for notification, telephone numbers/radio codes/pager codes.

# NOTE 3

See Enclosure 4.5, Notification of Emergency Conditions to be provided to State/County Warning Points.

- 3.5 The Emergency Coordinator in direct contact with the Technical Support Center and the Crisis Management Center will assess and respond to the emergency by:
  - 3.5.1 Dispatching the onsite and offsite monitoring teams with associated communications.
  - 3.5.2 Provide meteorological and dose estimates to offsite authorities for actual releases via a dedicated individual or automated data transmission.
  - 3.5.3 Provide release and dose projections based on available plant condition information and foreseeable contingencies to offsite authorities.

## NOTE

In the event a release or potential release of radioactive materials is a threat to plant personnel or members of the general public, the Emergency Coordinator shall utilize the Operator Aid Computer (OAC) "NUCLEAR-23" program to assess the offsite consequences. In the event the (OAC) is not operational the Emergency Coodinator shall request Health Physics personnel to evaluate the consequences

utilizing the appropriate Health Physics procedure, HP/0/B/1009/05, HP/0/B/1009/06, HP/0/B/1009/08, HP/0/B/1009/09, or HP/0/B/1009/10.

- 3.6 The Emergency Coordinator shall provide protective action recommendations as necessary to the affected county warning point(s) and to the North Carolina Warning Point (Emergency Operations Centers if established) or to state Radiological Protection Section, Department of Human Resources (See Enclosure 4.4, Telephone Listing) as directed by the state in accordance with the North Carolina Radiological Emergency Response Plan. If evaluation indicates that a potential for an actual release of radioactive materials will result in a projected dose (REM) to the population of: (EPA Protective Action Guidelines)
  - 3.6.1 Whole body <1, Thyroid <5, No protective action is required. Monitor environmental radiation levels to verify.
  - 3.6.2 Whole body 1 to <5, Thyroid 5 to <25, recommend seeking shelter and wait for further instructions. Consider evacuation particularly for children and pregnant women. Monitor environmental radiation levels. Control access to affected areas.
  - 3.6.3 Whole body 5 and above, Thyroid 25 and above, recommend mandatory evacuation of populations in the affected areas. Monitor environmental radiation levels and adjust area for Mandatory evacuation based on these levels. Control access to affected areas.

### NOTE

See Enclosure 4.4 Telephone Listing for notification.

- 3.7 The Emergency Coordinator in coordination with the Recovery
  Manager, at the Crisis Management Center, will provide or
  make available:
  - 3.7.1 A dedicated individual for plant status updates to offsite authorities and periodic press briefings.
  - 3.7.2 Senior technical and management staff onsite

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available for consultation with the NRC and State on a periodic basis.

/	3.8	The Emergency Coordinator in coordination with the Recovery
		Manager at the Crisis Management Center will assess the
		emergency condition and determine the need to remain in a
		General Emergency, reduce the emergency class, or close out
		the emergency.

3.9 The Recovery Manager at the Crisis Management Center will close out the emergency or recommend reduction of the Emergency class by briefing the offsite authorities at the Crisis Management Center or by phone if necessary, followed by written summary within 8 hours.

# 4.0 Enclosures

- 4.1 Emergency Classification Guide Flowchart
- 4.2 List of Initiating Conditions, Emergency Action Levels, and Associated Emergency Procedure/Document.
- 4.3 Notification Chart.
- 4.4 Telephone listing.
- 4.5 Notification of Emergency Conditions.
- 4.6 Emergency Plan Message Format

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# EMERGENCY CLASSIFICATION GUIDE FLOWCHART

Y DAY BOOK BANK BANK BANK BANK BANK BANK BANK BAN	SMALL ON LANGE BREAK LOCA OCCURS AND CONTAINMENT PERFORMANCE B UNNUCCESSFUL APERTING LONDER TRANSUCCESS OF APERTING LONDER TRANSUCCESS OF DEGRADATION ON MELL IN SEVERAL DEGRADATION ON MELL IN SEVERAL	HOUNS WITHOUT CONTAINMENT BOUNDARY			CONTREPONDING TO 1 MEMINE WELLS CONTREPONDING TO 1 MEMINE WE B. BOUNDARY WHOSE ACTIVAL BOUNDARY WHOSE ACTIVAL MEYEROPOLOGICAL CONDITIONS THESE DOSE MAYES AND FONDER'S D. CARED DOSE THE PROPETED OR ARE MEASURED IN THE PROPERTY	-	TRANSEN FEGURING OFFRATION OF SHUTDOWN STORE ASSURED TO SCRAM. ADDITIONAL FAILURE OF CORE COOLING AND MAKEUP SYSTEM WIGHT OF SAILURE OF SYSTEM SHOTLY.	PRINCIPLE HEAT REMOVAL SYSTEMS FOLLOWED BY FAILURE OF SME.	GENCY FEEDWATER SYSTEM FOR EX- TENDED PERIOD. CORE MELT POSSIBLE IN SEVERAL HOURS WITH ULTIMATE	FAILURE OF CONTAINMENT LIKELY IF	EVENTS IE. O. PERSON AND MANAGE SATERNAL EVENTS IE. O. PERSON SATURAL V. BEYOND DESIGN BASSIVE COMMON DAMAGE TO PLANT SYSTEMS.			PACILITY PAYSICAL CONTROL OF THE	CVENTS IE G. PINES, EARTHQUAKES SUBSTANTIALLY BEYOND DESIGN BASIS WHICH COULD CAUSE MASSIVE	OTHER PLANT COURS! DOWN IN THE PROPERTY OF THE
EITE ARE A EME NGENCY	LI OCA) ORGANICAMI ACCIDENT  IL OCA) ORGANICAMI TRANSMENTE  CAACLIV  RAPID FAILURE OF SITE AN GENERATOR  THESE WITH LOSS OF PESTIT FOWER  REVERAL HUNGURED GPAIL	DEGRADED CORE WITH POSSIBLE LOSS	FORM LINE PREAK WITH GREATER THAM OF FUEL DAMAGE.		COMMESSORIDING TO GREATEN THAN 60 MANAN FON HOUSE OF GREATEN THAN 60 THAN 160 MANAN FON HOUSE OF GREATEN THAN 60 THAN 160 MANAN FON TWO PON ADDERSOR BY THE SITE BOUNDANY FOR ADDERSOR MAYER ARE FROM CETED  ARRED ON STHEM FAND FAND ARETERS	OR ARE MEASURED IN THE ENVIRONE LEPA PROTECTIVE ACTION QUIDELINES— ARE PROJECTED TO BE EXCEEDED OUTSIDE THE SITE BOUNDARY	TAMASSIGN TO REQUIRING OPERATION OF SHUT DOWN EYSTEMS WITH FAILURE TO SCRAM (CONTINUED POWER SAGRERATION WITH NO CORE DAMAGE IMMEDIATELY EVIDENTY LOSS OF ANY FUNCTION NEEDED FOR	ALL ONSITE AC FOWER AND LOSS OF— ALL ONSITE AC FOWER FOR MORE THAN 18 MIN. LOSS OF ALL VITAL ONSITE DC FOWER	FOR MORE THAN 18 MIN. —FIRE COMPROMISING THE FUNCTIONS OF BAFETY SYSTEMS	CONTROL OF SHLITDOWN SYSTEMS NOT 68TABLISHED FROM LOCAL STATIONS IN 18 MIN.	TRANSIENT INTIATED ON IN PROGRESS	CONTAINMENT OR FUEL HANDLING BUILDING	E APÉRIENCED OR PROJECTED WITH PLANT NOT IN COLD SHUTDOWN	OF FLANT	FLANT NOT IN COLD SHUTGOWN	WARRANTHO ACTIVATION EXIST— WARRANTHO ACTIVATION OF REASO MORE TORNES AND OF SELENCE OF A PRECAUTIONARY HORIZON TO THE FUBLIC NEAR THE SITE
ALT CLASSIFICATION GOIDS TOWN	GREATER THAN 60 OF OR STREAM CARTS CHANGE FOLLOWS OF A STREAM CARTS CONTRACTOR TUBE AND LOSS OF OFF-	- EEVERE LOSS OF FUEL CLADSING TO - FUEL PALLURE LEADING TO - FUEL PALLURE	PRIMARY TO SECONDARY LEAK RATE.		HAM RADIATION LY VERS OF HIGH ARREOTHE CONT AMINATION WHICH ARREOTHE CONT AMINATION WHICH CONTROL OF PADIOACTIVE MATERIA. THAN 18 TIMES FCH. 8P.6. MST ANT AME OLG. LIMITS		PAILURG OF REACTOR PROTECTION— 8 VETEM TO INTITATE AND COMPLETE A SCRAM SHICH SHINGS THE REACTOR BUSCHTICK	ALL ONGITS AC FOWER AND LOSS OF ALL ONGITS AC FOWERFOR UP TO 18 MIN —LOSS OF ALL ONSITE DC POWER	BAFETY BY BTEMS	EVACUATION OF CONTROL ROOM ANTICIPATED ON REQUIRED WITH CONTROL OF SHUIDOWN BYSTEMS EST ABLISHED FROM LOCAL STATIONS	IAMNUNICATORBI LOBT	PUEL DAMAGE ACCIDENT WITH MELESE OF RADIOACTIVITY TO CONTAINMENT OR FUEL HANDLING BUILDING	OR PROJECTED POTENTIALLY AFFECTING RAFETY BYSTEMS	- ONGOING SECURITY COMPROMISE	CAPENIGNCED ON PROJECTED	THE REAL COMDITIONS REST
THE PERSON NAMED IN COLUMN NAM	BY CEEDING BITHER PRIMARY/ BECONGARY LEAK BATE TECHNICAL BECUT CATINGAD ON PRIMARY BYSEL LEAK RATE TECHNICAL BRECTEATION REQUIRING BRUT DOWN BY TECH SPEC.	PUEL DAMAGE IMPREATION AND/OR A PRESUNE OR A SHADON OR A SHADON OR TEMPS.	MINICH EXCEND TREM, EFFC. LIMITS  VALUER OF A BARETY OF RELIEF  VALUE IN A BARETY BLATED SYSTEM  TO CLOSE FOLLOWING A REDUCTION  OF APPLICABLE PRESSURE	REBULTING IN MARKEDATE SHUTDOWN 1 YELL SHOP 1 YOUR ON PARE PROTECTION 1 UNIT OF SHUTDOWN BY 1 UNIT ON SHOUNDING SHUTDOWN BY 1 UNIT ON SHOUNDING SHUTDOWN BY 1 UNIT OF SHUTDOWN B	Greentation Limits Exceeded			OHEITE AC FOWER CAPABILITY	MORE THAN 10 MINUTES		OM ¿PFLUENT PARAMETERS NOT FUNCTIONING IN CONTRACT RODA TO AN EXTENT REQUISING PLANT SHUTDOWN. OTHER SIGNIFICANT LOSS OF ASSESSMENT OR COMMUNICATION		PROJECTED THAT APPECT PLANT OPERATIONS	DE ATTEMPTED BABOTAGE ON ATTEMPTED ENTRY  ON ATTEMPTED ATTEMPTED ENTRY	C RPERICNCED ON PROJECTED BEYOND UBUAL LEVELS	MARKHANT INCREAGED AWARTERS ON THE PART OF PLANT DEFAILED THE PART DEFAILED THE PART OF PLANT DEFAILED THE PART OF PLANT DEFAILED
AMOD JAY I WILL	ABNORMAL PRIMARY LEAK RAYS	ABNUMAL CORE CONDITIONS AND FUEL DAMAGE	DASAK OR MS RV/SV		ABNORAL RADIOLOGICAL		LOSS OF BRUTDOWN FUNCTIONS DECATHERY OR REACTIVITY	ELECTRICAL OR FOWER PAILURES-	CONTROL BOOM EVACUATION					BECCHITY THREATS		N 1000
	:	*	*		:		•	2	. :	3				2 3		3

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# LIST OF INITIATING CONDITIONS, EMERGENCY ACTION LEVELS, AND ASSOCIATED EMERGENCY PROCEDURE/DOCUMENT

Initiatin	Conditions	Emergency Action Level	(EAL)	Emergency Procedure/Document
4.2.1	Effluent monitors detect levels corresponding to 1 rem/hr Whole Body or 5 rem/hr Thyroid at the site boundary under actual meteorological conditions.	As observed by control	room personnel.	HP/0/B/1009/05
	NOTE 1: These dose rates are projected base on plant parameters (e.g., radiation levels in containment with leak rate appropriate for existing containment pressure with some confirmation from effluent monitors) or are measured in the environs.			
	NOTE 2: Consider evacuation only within about 2 miles of the site boundary unless these levels are exceeded by a factor of 10 or projected to continue for 10 hours or EPA Protective Action Guideline exposure levels are predicted to be exceeded at longer distant			
4.2.2	Loss of 2 of 3 fission pro- duct barriers with a poten- tial loss of 3rd barrier, (e.g., loss of primary coolant boundary, clad-	1. Loss of coolant accidentified in Site 4.2.1, and incomplement isolation.	Area Emergency	HP/0/B/1009/05, AP/1/A/5500/0 AP/2/A/5500/05

2. Loss of coolant accident as iden-

for at least 2 minutes.

tified in Site Area Emergency 4.2.1,

and Containment Monitor alarms (EMF51A and/or B) greater than 10 R/hr and containment pressure greater than 14.8 psig

failure, and high poten-

tial for loss of contain-

ment integrity).

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Emergency Action Level (EAL) Emergency Procedure/Document Initiating Conditions Station Security Plan. 4.2.3 Loss of physical con-Physical attack of the facility has trol of the facility. resulted in occupation of the control room and auxiliary shutdown NOTE: Consider 2 mile facility. precautionary evacuation. As determined by the Shift Supervisor/ As dictated by plant conditions. 4.2.4 Other plant conditions Emergency Coordinator and verified by exist, from whatever EAL's defined in Implementing Procedures source, that in the judgement of the shift superutilized up to this point. visor, the Operations Duty Engineer, the Superintendent of Operations, or the Plant Manager make release of large amounts of radioactivity in a short time period possible (e.g., any core melt situation). For core melt sequences where significant releases are not yet taking place and large amounts of fission products are not yet in

the containment atmosphere, consider 2 mile precautionary evacuation. Consider 5 mile downwind evacuation (45° to 90° sector) if large amounts of fission products

(greater than Gap activity), are in the containment atmosphere.
Recommend sheltering in other parts of the plume exposure Emergency Planning Zone under this circumstance.

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Initiating Conditions

Emergency Action Level (EAL)

Emergency Procedure/Document

- b. For core melt sequences where significant releases from containment are not yet taking place and containment failure leading to a direct atmospheric release is likely in the sequance but not imminent and large amounts of figaion products in addition to noble gases are in the containment atmosphere, consider precautionary evacuation to 5 miles and 10 mile downwind evacuation (45° and 90° sector).
- For core melt sequences where large amounts of fission products other than noble gases are in the containment atmosphere and containment failure is judged imminent, recommend shelter for those areas where evacuation cannot be completed before transport of activity to that location.

Emergency Action Level (EAL)

Emergency Procedure/Document

- d. As release information becomes available adjust these actions in accordance with dose projections, time available to evacuate and estimated evacuation times given current conditions.
- e. Example Sequences:
  - Small and large LOCA's with failure of ECCS to perform leading to severe core degradation or melt. Ultimate failure of containment likely for melt sequences. (Several hours likely to be available to complete protective actions unless containment is not isolated).

Safety injection signal plus reactor trip and;

- Safety injection and RHR pumps not running.
- Flow indications for safety injection read "0".
- High containment sump level.

For Severe Fuel Over Temperature:
Greater than 10% failed fuel
indicated by greater than
13,000µCi/ml-131 concentration.

For Fuel Melt Conditions:

Greater than 5% failed fuel indicated by greater than 11,800µC1/ml I-131 concentration.

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Initiating Conditions

Emergency Action Level (EAL)

Emergency Procedure/Document

Transient initiated by loss of feedwater and condensate systems (principle heat removal system) followed by failure of emergency feedwater system for extended period. (Core melting is possible in several hours with ultimate failure of containment likely if the core melts).

Reactor trip on Lo Lo Steam Generator level and wide range generator levels toward offscale low on all steam generators and emergency feedwater flow indicators indicate "0" flow or emergency feedwater pumps not running and cannot be restored within 30 minutes or >3% reactor power and loss of both main feedwater pumps, manually trip reactor.

AP/1/A/5500/06, AP/2/A/5500/06 EP/1/A/5000/04, EP/2/A/5000/04

3. Transient requiring operation of shutdown systems with failure to scram. Core damage is likely. Additional failure of the core cooling and makeup system would lead to core melt.

Reactor remains critical after all attempts to trip the reactor are complete and flow indicators on safety injection and RHR show "0" flow after initiation (NVP5440, NDP5190, 5191, 5180, 5181, NIP5120, 5450) or safety injection and RHR pumps not running with safety injection initiated.

AP/0/A/5500/34

Initiating Conditions

Emergency Action Level (EAL)

Emergency Procedure/Document

4. Failure of offsite and onsite power along with total loss of emergency feedwater makeup capability for several hours. Would lead to eventual core melt and likely failure of containment.

Undervoltage alarms on 7KV buses and blackout load sequencers actuated and auxiliary feedwater pump(s) fail to start.

AP/1/A/5500/07, AP/2/A/5500/07

5. Small LOCA and initially successful ECCS.
Subsequent failure of containment heat removal system over several hours could lead to core melt and likely failure of containment.

Pressurizer low pressure reactor trip and pressurizer low pressure safety injection signal and RHR flow indicators show "0" flow after shift to RHR is attempted and for greater than 2 hours (NDP5190, 5191, 5180, 5181) and Reactor Coolant (NC) To is rising, and containment air handling system fails so function.

EP/1/A/5000/02, EP/2/A/5000/02, AP/1/A/5500/05, AP/2/A/5500/05

NOTE: For melt sequences or for failure of containment isolation systems, the likely failure mode is melt through with release of gases.

As determined by the Shift Supervisor/ Emergency Coordinator.

As dictated by plant conditions.

4.2.5 Any major internal or external events (e.g., fires, earthquakes substantially beyond design levels) which could cause massive common damage to plant systems.

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# NOTIFICATION/ACTIVATION GENERAL EMERGENCY

Notify/Activate the following personnel/or Emergency Centers for all Initiating Conditions listed in Enclosure 4.2. (See Enclosure 4.4 for Telephone Listing)

NOTIFY/ACTIVATE	NOTIFICATION COMPLETE-INITIAL			
Shift Supervisor				
Operations Duty Engineer				
Station Manager				
Superintendent of Operations				
Superintendent of Technical Services				
Projects and Licensing Engineer				
Station Health Physicist				
North Carolina State Warning Point				
Mecklenburg County Warning Point				
Lincoln County Warning Point				
Catawba County Warning Point				
Iredell County Warning Point				
Gaston County Warning Point				
Cabarrus County Warning Point				
South Carolina State Warning Point				
N.R.C. via ENS (Red Phone)				
N.R.C. Station Representative				
Superintendent of Maintenance				
Superintendent of Administration				
Construction Project Manager				
Activate T.S.C. (Station Directive 3.8.2)				
Activate O.S.C. (Station Directive 3.8.2)				
Activate C.M.C. (Enclosure 4.6)				

# TELEPHONE LISTING

4.4.1	Operations Duty Engineer (PA System P&T Pager	)	
4.4.2	Station Manager Home System Bome System		
4.4.3	Superintendent of Omerations - Home System	Speed	
4.4.4	Superintendent of Technical Service Bome System		
4.4.5	Projects and Licensing Engineer - Home - System	Speed	
4.4.6	Station Health Physicis'  Home - system Sp P&T Paget	eed -	
4.4.7	NC State Warning Point, Raleigh -		
4.4.8	Mecklenburg County Warning Point -	Back-up:	
4.4.9	Lincoln County Warning Point -	Primary: Back-up: Back-up:	System Speed
4.4.10		Primary: Back-up: Back-up:	
4.4.11	Iredell County Warning Point -	Back-up:	Ring Down Phone - System Speed Emergency Radio, Code:
4.4.12	Gaston County Warning Point -	Primary: Back-up: Back-up:	Ring Down Phone System Speed Emergency Radio, Code:
4.4.13	Cabarrus County Warning Point -	Primary: Back-up: Back-up:	Ring Down Phone System Speed Emergency Radio, Code:

# NOTE

- Radio Code fill activate all county radio units.
- P&T Pager, Central Division (Charlotte Area)
   Dial -

# TELEPHONE LIST

4.4.14	SC State Warning Point -
4.4.15	N.R.C. Operation Center, Emergency Notification System (ENS Phone
4.4.16	N.R.C. Station Representative (Bill Orders)  Office  Home -  P&T Pager  For P&T Page from Central (MNS Area) -
4.4.17	Construction Project Manager Construction . Ext.  Home: System Speed -
4.4.18	Superintendent of Maintenance Home System Speed .
4.4.19	Superintendent of Administration - Home - System Speed -
4.4.20	Nuclear Production Duty Engineer - System Speed - P&T Pager
4.4.21	Radiation Protection Section, Department of Human Resources- - System Speed -

# MCGUIRE NUCLEAR STATION NOTIFICATION OF EMERGENCY CONDITIONS

4.5.1	Incl	ude as a m	initum, the following information to the	North Carolina				
	State Warning Point, the six County Warning Points, (Mecklenburg, Catawba,							
	Iredell, Lincoln, Gaston, and Cabarrus) and the South Carolina Warning Point							
	NOTE	1: See	Enclosure 4.4, Telephone Listing					
	NOTE	2: A.	Complete Part I of this format as a minim	mal first				
			notification of a reportable incident.					
		В.	Complete Part I and II of this format to	provide				
			minimal followup information.					
	PART	I: Init	ial Emergency Message Information	ACKNOWLEDGEMENT				
		TELE	PHONE RESPONSE:	Mecklenburg				
			"This is McGuire Nuclear Station.	Iredell				
			Please acknowledge when you are	Lincoln				
			ready to copy Emergency Information."	Cabarrus				
				Gaston				
	1.	This is M	cGuire Nuclear Station.	Catawba				
	2.	my name i	s:					
	3.	This mess	age (Number):					
		a.	Reports a real emergency.					
		b.	Is an exercise message.					
	4.	My teleph	one number/extension is:					
	5.	Message A	uthentication:					
	6.	The class	of emergency is:					
		a.	Notification of an Unusual Event					
		ь.	Alert					
		c.	Site Area Emergency					
		d.	General Emergency					
	7.	The Class	ification of Emergency was declared at:					
			AM.	/PM DATE				
	8.	The initi	ating event causing the Emergency Classif	ication is:				
	9.	The Emerg	ency Condition:					
		a.	Does not involve the release of radioact:	ive materials				
			from the plant.					
		b.		t NO release is				
			occurring.					
		c.	Involves a release of radioactive materia	al.				

10.	We recommend the following protective action:
	a. No protective action is recommended at this time.
	b. People living in zones remain
	indoors with doors and windows closed.
	c. People in zones EVACUATE
	their homes and businesses.
	d. Pregnant women and children in zones
	remain indoors with the doors and windows closed.
	e. Pregnant women and children in zones
	evacuate to the nearest shelter/reception center.
	f. Other recommendations:
11.	There will be:
	a. A followup message
	b. No further communications
12.	I repeat, this message:
	a. Reports an actual emergency.
	b. Is an exercise message.
13.	Relay this information to the persons indicated in your alert pro-
	cedures for an incident at McGuire Nuclear Station.
NOTE	: Record the Name, Title, Date, Time, and Warning Point at end of
	Part II.
PART	II: Followup Emergency Message Information
1.	The type of actual or projected release is:
	a. Airborne
	b. Waterborne
	c. Surface spill
	d. Other
2.	The source and description of the release is:
3.	a. Release began/will begin ata.m./p.m.; time since
	reactor trip is hours.
	b. The estimated duration of the release is hours.

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Radiological rel	ease: · · curi	es, orcuries/sec.			
Wind speed:	mph	carres/sec.			
Wind direction:	From				
Stability class:		A,B,C,D,E,F, or G)			
Release height:		t.			
		R/hr/C1/M³ (whole body)			
		/hr/Ci/M³ (Child Thyroid)			
Precipitation					
Temperature at the	he site:	P .			
Dose projections		•			
	*Dose Commitmen	t*			
Nessee	T				
Distance	Whole Body	(Child Thyroid)			
C/A- 2	Rem/hour	Rem/hour of inhalatio			
Site Boundary					
2 miles					
5 miles 10 miles					
*Proj					
Distance	Whole Body	Child Thyroid			
	Whole Body	Child Thyroid			
Distance	Whole Body	Child Thyroid			
Distance Site Boundary 2 miles 5 miles	Whole Body	Child Thyroid			
Distance Site Boundary 2 miles	Whole Body	Child Thyroid			
Distance Site Boundary 2 miles 5 miles 10 miles					
Distance Site Boundary 2 miles 5 miles 10 miles					
Distance Site Boundary 2 miles 5 miles 10 miles					
Distance Site Boundary 2 miles 5 miles 10 miles Field measurement	of dose rate or con	ntamination (if available):			
Distance Site Boundary 2 miles 5 miles 10 miles Field measurement		ntamination (if available):			
Distance  Site Boundary  2 miles  5 miles  10 miles  Field measurement	of dose rate or con	ntamination (if available):			
Distance  Site Boundary  2 miles  5 miles  10 miles  Field measurement	of dose rate or con	ntamination (if available):			
Distance  Site Boundary  2 miles  5 miles  10 miles  Field measurement  Emergency actions  Onsite support ne	of dose rate or con	ntamination (if available):			
Distance  Site Boundary  2 miles  5 miles  10 miles  Field measurement  Emergency actions  Onsite support ne	of dose rate or con underway at the fac	ntamination (if available): cility include:			
Distance  Site Boundary  2 miles  5 miles  10 miles  Field measurement  Emergency actions  Onsite support ne	of dose rate or con underway at the fac eded from offsite or not tripped/tripped	ntamination (if available): cility include:			
Distance  Site Boundary  2 miles  5 miles  10 miles  Field measurement  Emergency actions  Onsite support ne	of dose rate or con underway at the fac eded from offsite or not tripped/tripped	ntamination (if available): cility include:			

) =

Communicator (Title)

South Carolina (Warning Point)

10. I repea	t, this mes	sage:	
a.		an actual emergency.	
b.		ercise message.	
-			
11. Do you			
		ND OF FOLLOW-UP MESSA	
NOTE: Recor	d the name,	title, date, time, an	nd warning point notified
(1) _	(Name)		Communicator (Title)
	(Mame)		(11116)
_			Mecklenburg
	(Date)	(Time)	(Warning Point
(2)			Communicator
	(Name)		(Title)
			Caston
_	(Date)	(Time)	(Warning Point
(2)			
(3)	(Name)		Communicator (Title)
	()	-	(11016)
_	7= (		Iredell
	(Date)	(Time)	(Warning Point
(4)			Communicator
	(Name)		(Title)
			Catawba
_	(Date)	(Time)	(Warning Point
(5)			
(5) _	(Name)		Communicator (Title)
			(1111)
_	(Date)	(Time)	Lincoln (Variation Podes
	(Date)	(lime)	(Warning Point
(6)			Communicator
	(Name)		(Title)
			Cabarrus
	(Date)	(Time)	(Warning Point
(7)			Communicator
, _	(Name)		(Title)
			W 4
-	(Date)	(Time)	North Carolina (Warning Point
	(Dace)	(2200)	(warming round

(8)

(Name)

(Date)

(Time)

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# EMERGENCY PLAN MESSAGE FORMAT (Nuclear Station to Nuclear Production Duty Engineer)

This is at McGuire Nuclear Station. (Name and Title)
This is/is not a Drill. AnUnusual Event
Alert
Site Area Emergency
General Emergency
was declared by the Emergency Coordinator at on Unit Number
Initiating Condition: (Give as close to the emergency procedure description as
possible together with station parameters used to determine emergency status)
,
Corrective Measures Being Taken:
Corrective Measures Being Taken:
Corrective Measures Being Taken:  There Have/Have Not been any injuries to plant personnel.
There Have/Have Not been any injuries to plant personnel.  Release of radioactivity: Is/Is not taking place, and is/is not affecting the
There Have/Have Not been any injuries to plant personnel.  Release of radioactivity: Is/Is not taking place, and is/is not affecting the Crisis Management Center.  NRC Yes No, State Yes No, Counties Yes No, have been notified.
There Have/Have Not been any injuries to plant personnel.  Release of radioactivity: Is/Is not taking place, and is/is not affecting the Crisis Management Center.  NRCYesNo, StateYesNo, CountiesYesNo, have been notified.  The Crisis Management Team should/should not be activated. Corporate
There Have/Have Not been any injuries to plant personnel.  Release of radioactivity: Is/Is not taking place, and is/is not affecting the Crisis Management Center.  NRC Yes No, State Yes No, Counties Yes No, have been notified.
There Have/Have Not been any injuries to plant personnel.  Release of radioactivity: Is/Is not taking place, and is/is not affecting the Crisis Management Center.
There Have/Have Not been any injuries to plant personnel.  Release of radioactivity: Is/Is not taking place, and is/is not affecting the Crisis Management Center.  NRC Yes No, State Yes No, Counties Yes No,
There Have/Have Not been any injuries to plant personnel.  Release of radioactivity: Is/Is not taking place, and is/is not affecting the Crisis Management Center.  NRCYesNo, StateYesNo, CountiesYesNo, have been notified.
There Have/Have Not been any injuries to plant personnel.  Release of radioactivity: Is/Is not taking place, and is/is not affecting the Crisis Management Center.  NRCYesNo, StateYesNo, CountiesYesNo, have been notified.
There Have/Have Not been any injuries to plant personnel.  Release of radioactivity: Is/Is not taking place, and is/is not affecting the Crisis Management Center.  NRCYesNo, StateYesNo, CountiesYesNo, have been notified.  The Crisis Management Team should/should not be activated. Corporate
There Have/Have Not been any injuries to plant personnel.  Release of radioactivity: Is/Is not taking place, and is/is not affecting the Crisis Management Center.  NRCYesNo, StateYesNo, CountiesYesNo, have been notified.  The Crisis Management Team should/should not be activated. Corporate Communications and Company Management should be notified (Unusual Event Only).
There Have/Have Not been any injuries to plant personnel.  Release of radioactivity: Is/Is not taking place, and is/is not affecting the Crisis Management Center.  NRCYesNo, StateYesNo, CountiesYesNo, have been notified.  The Crisis Management Team should/should not be activated. Corporate Communications and Company Management should be notified (Unusual Event Only). I can be reached at for follow-up information.
There Have/Have Not been any injuries to plant personnel.  Release of radioactivity: Is/Is not taking place, and is/is not affecting the Crisis Management Center.  NRCYesNo, StateYesNo, CountiesYesNo, have been notified.  The Crisis Management Team should/should not be activated. Corporate Communications and Company Management should be notified (Unusual Event Only). I can be reached at for follow-up information.