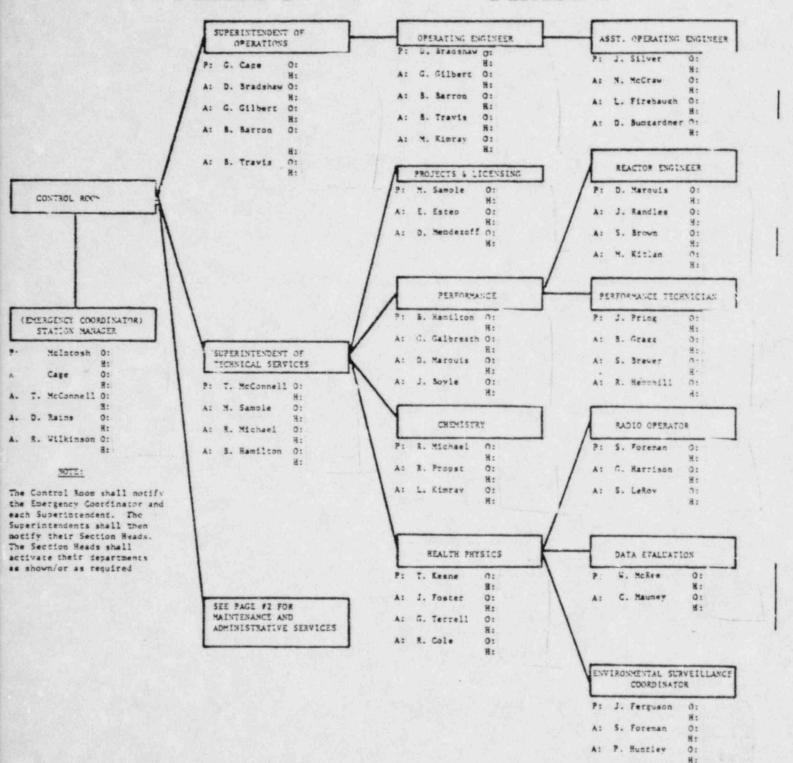
## McGUIRE NUCLEAR STATION OUT OF STATION DOCUMENT TRANSMITTAL

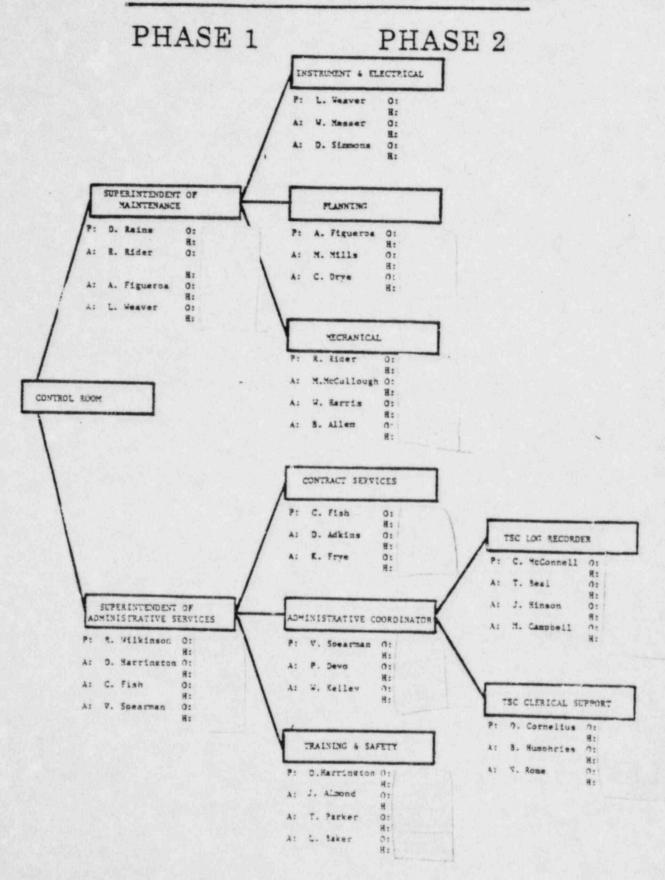
		Date:	8-24-82		
To:					
Document(s):	EMERGENCY PLAN IMPLEMENTING PROCED	OURES MANUAL		Rev	
	Station Directive 3.8.2			Rev	
	Enclosure 1 (1 page)			Rev.	6
	Enclosure 4 (2 pages)			Rev	7
				Rev.	
				Rev.	
				Rev.	
Control No.:_					
	and return this transmittal to Maste		n thirty (30)	working	
Received by:					
Date					

#### ENCLOSURE 4

# TECHNICAL SUPPORT CENTER PHASE 1 PHASE 2



## TECHNICAL SUPPORT CENTER



Form 34731 (10-81) (Formerty SPO-1002-1)

# DUKE POWER COMPANY PROCEDURE PREPARATION PROCESS RECORD

(1) ID No: AP/O/A/5500/27 Change(s) 0 to 1 Incorporated

) STATION: McGuire Nuclear Station	
) PROCEDURE TITLE: Care and Transportation	of Contaminated Injured
Individual(s) From Site to Offsite Medical	Facility
PREPARED BY: M. S. GLOVET	DATE: 8/16/82
REVIEWED BY: GF TIRRE	DATE: 8/17/82
Cross-Disciplinary Review By:	N/R: GET
TEMPORARY APPROVAL (IF NECESSARY):	
By:(SRO)	Date:
Ву:	Date:
APPROVED BY: Jour M 22	Date: Fing
MISCELLANEOUS:	
Reviewed/Approved By:	Date:
Reviewed/Approved By:	Date:

# DUKE FOWER COMPANY McGUIRE NUCLEAR STATION CARE AND TRANSPORTATION OF CONTAMINATED INJURED INDIVIDUAL(S) FROM SITE TO OFF-SITE MEDICAL FACILITY

#### 1.0 Symptoms

1.1 Individual contaminated to levels >1000 dpm/100cm<sup>2</sup> Beta-Gamma (loose), or 5000 dpm/100cm<sup>2</sup> Beta-Gamma (fixed and loose total) or >50 dpm/100cm<sup>2</sup> Alpha and in need of offsite medical attention.

#### 2.0 Immediate Actions

2.1 Automatic

N/A

- 2.2 Manual
  - 2.2.1 Perform any life saving first aid if necessary.
  - 2.2.2 Notify Shift Supervisor.
  - 2.2.3 Notify Health Physics.

#### 3.0 Subsequent Actions

- 3.1 The Shift Supervisor shall contact any outside services neried:
  - 3.1.1 North Mecklenburg Ambulance Service (See Enclosure 4.3)
  - 3.1.2 North Mecklenburg Rescue Squad (See Enclosura 4.3)
- 3.2 Health Physics shall accompany the contaminated injured individual(s) to the doctor or hospital.
  - 3.2.1 Health Physics shall minimize the spread of contamination during transportation by covering the individual(s) with sheets or blankets and lining the stretcher with poly. This is not to interfere with life saving first aid.
  - 3.2.2 Health Physics shall ensure that the Medical Decontamination Kit and an RM-14 with HP-210 probe, accompany contaminated injured individuals(s) to the hospital. (Kit is stored in the Auxiliary Building First Aid Room.)
- 3.3 In case of contamination not involving severe injury, decontamination shall be performed in the first aid room in the Radiation Control Area of the station, prior to transportation to a medical facility. However, decontamination shall not interfere with or take precedence over proper medical or surgical care as determined by the Station Nurse or First Aid personnel.

- 3.3.1 Decontamination shall be performed by Health Physics with assistance from the Station Nurse or First Aid Personnel.
- 3.3.2 Enclosure 4.2, "Contaminated Victim Checklist" shall be completed for all contaminated injured persons. A copy of the completed checklist will be filed with appropriate Health Physics and Medical records.
- 3.3.3 The requirements of Station Directive 2.10.2, Reporting
  "On-The-Job" Injuries, shall also be utilized when providing
  for occupational injury and/or illness at McGuire Nuclear
  Station.
- 3.4 Commence "Notification of Unusual Event" as per EP/0/A/5000/05.
- 3.5 Medical Assistance for Contaminated and Injured persons is provided by Charlotte Memorial Hospital.
  - 3.5.1 The Shift Supervisor shall contact the Emergency Room at Charlotte Memorial Hospital, and shall provide them with information concerning the contaminated injured individual(s) ie: burns, fractures head injuries, levels of contamination, He shall also inform the emergency room as to the mode of emergency transportation utilized. (See Enclosure 4.3).
  - 3.5.2 Charlotte Memorial Hospital may call back to the station for verification.
- 3.6 Back-up Medical Facility
  - 3.6.1 In the event that Charlotte Memorial Hospital cannot provide complete assistance or in the event they may request additional expertise in the management of a radiation accident victim(s), the Shift Supervisor/Emergency Coordinator shall contact the Department of Energy, Radiation Emergency Assistance Center Training Site (REACTS), in Oak Ridge Tennessee for assistance. (See Enclosure 4.3).
- 3.7 Personnel taken to Charlotte Memorial Hospital will be delivered to the Emergency Room except in the case of extreme contamination in which case personnel will be delivered as directed by the hospital. NOTE: The Ambulance Service or Rescue Squad will maintain radio communications with the medical facility while enroute.

3.8 Upon completion of transportation, McGuire Health Physics personnel will survey the ambulance/rescue vehicle(s), all involved personnel and equipment, and shall assist in any necessary decontamination of vehicles, personnel and equipment. McGuire Health Physics personnel will also assist the hospital in survey and decontamination of hospital equipment, spaces or personnel as may be requested by hospital Radiation Safety personnel.

#### 4.0 Enclosures

- 4.1 Map to Charlotte Memorial Rospital
- 4.2 Contaminated Victim Checklist
- 4.3 Telephone List

AP/0/A/5500/27 Enclosure 4.1

## McGUIRE NUCLEAR STATION CONTAMINATED VICTIM CHECKLIST

VICTIM'S NAM	Œ		WORK GROUP	
DATE	Tempero	TIME	ANY ALLERGIES	
LOCATION OF	ACCIDENT		RADIATION LEV	EL
	ON: YES			
INHALED:	YES	NO	NGESTED: YES NO	
PART OF BODY	Y CONTAMINAT	ED	TAMINATION LEVELS ON P	10F 2 -4 2 1
		(RECORD CO	TAMINATION LEVELS ON P	AGE 2 of 2.)
TYPE OF CON	TAMINANT			
DECONTAMINA'	TION PROCEDU	IRES:		
17	NDRESS	WOUND IRRI	GATION SWA	as, erc.
	SHOWER			
ADDITIONAL	INFORMATION:		nt type and number util	REQUIRED
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ADDITIONAL performed b	INFORMATION: y:, TLD Badg	(i.e., Instrume	nt type and number util	ized for survey, surve

#### TELEPHONE LIST

4.3.1	Health Physics - (Plant Phone)
4.3.2	Charlotte Memorial Hospital E.R
4.3.4	Radiation Emergency Assistance Center Training Site (REACTS)
4.3.5	North Mecklenburg Ambulance Service -
4.3.6	North Mecklenburg Rescue Squad -

Form 34731 (10-81) (Formerly SPD-1002-1)

## DUKE POWER COMPANY PROCEDURE PREPARATION PROCESS RECORD

(2)	STATION: McGuire Nuclear Station	
(3)	PROCEDURE TITLE: General Emergency	
	- mchl	
	PREPARED BY: M. S. Glover	DATE: 8/18/82
(5)	REVIEWED BY: AD Hillest	DATE: 8-25-82
	Cross-Disciplinary Review By:	N/R: 5474
(6)	TEMPORARY APPROVAL (IF NECESSARY):	
	By:(SRO)	Date:
	Ву:	Date:
(7)	APPROVED BY: Survey	Date: 8-30-82
(8)	MISCELLANEOUS:	
	Reviewed/Approved By:	Date:
	Reviewed/Approved By:	Date

# DUKE POWER COMPANY McGUIRE NUCLEAR STATION GENERAL EMERGENCY

#### 1.0 Symptoms

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

#### 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 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 15 minutes of declaring the emergency for State and Local authorities) notification of those personnel and Warning Points and shall activate those Emergency Certers indicated on Enclosure 4.3 for the appropriate Initiating Condition/Emergency Procedure listed in Enclosure 4.2.

#### NOTE 1

Activation of the Technical Support Center (ISC) 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 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, HF/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 esult 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 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.
1	2 0	The Passwary Manager at the Crisis Management Center will

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 Crisis Management Center Activation Format.

EP/0/A/5000/08 Enclosure 4.1 Page 1. of 1

# EMERGENCY CLASSIFICATION GUIDE FLOWCHART

ABNORMAL CORE CONDITIONS FUEL AND FUEL DAMAGE PRESS STEAM LINE EREAK OR MS NV/SV VALV VALVE PAILUNE FEATH FAILUNE FEATH FAILUNE FEATH FEAT	SECONDARY LEAR MATE TECHNICAL RECIFICATION ON PRIMARY SYSTEM	GREATER THAN SO OPEN		
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EP/0/A/5000/08 Enclosure 4.2 Page 1 of 6

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

Emergency Procedure/Document Emergency Action Level (EAL) Initiating Conditions HP/0/B/1009/05 As observed by control room personnel. 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. 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 distances. 1. Loss of coolant accident as HP/0/B/1009/05, AP/1/A/5500/05 Loss of 2 of 3 fission pro-4.2.2 identified in Site Area Emergency duct barriers with a poten-4.2.1, and incomplete containtial loss of 3rd barrier, ment isolation. (e.g., loss of primary coolant boundary, clad-2. Loss of coolant accident as idenfailure, and high poten-

tified in Site Area Emergency 4.2.1,

for at least 2 minutes.

and Containment Monitor alarms (EMF51A

and/or B) greater than 10 R/hr and containment pressure greater than 14.8 psig

tial for loss of contain-

ment integrity).

Initiat	ing Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4.2.3	Lose of physical control of the facility.  NOTE: Consider 2 mile precautionary evacuation.	Physical attack of the facility has resulted in occupation of the control room and auxiliary shutdown facility.	Station Security Plan.
4.2.4	Other plant conditions exist, from whatever source, that in the judgement of the shift supervisor, 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).	As determined by the Shift Supervisor/ Emergency Coordinator and verified by EAL's defined in Implementing Procedures utilized up to this point.	As dictated by plant conditions.
	a. 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.

EP/0/A/5000/08 Enclosure 4.2 Page 3 of 6

Initiating Conditions

Emergency Action Level (EAL)

Emergency Procedure/Document

- For core melt sequences where significant tasses from containment are not yet taking place and containment failure leading to a direct atmospheric release is likely in the sequence but not imminent and large amounts of fission 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.

EP/0/A/5000/08 Enclosure 4.2 Page 4 of 6

Initiating Conditions

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 1.0CA'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.

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, EP/1/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

EP/0/A/500	00/08	
Enclosure	4.2	
Page 6	of	6

CONTRACTOR OF THE PARTY OF THE	min complex con-	CONTRACT VARIABLE DE	Market Street	combains brimsers
Initiati	ing	Cond	it	ions

Emergency Action Level (EAL)

Emergency Procedure/Document

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

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 to function.

EP/1/A/5000/02, AP/1/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.

#### 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 4.4, Enclosure 4.6)	

#### TELEPHONE LISTING

4.4.1	Operations Duty Engineer (PA System P&T Pager -	em)		
4.4.2	Charles Wassess			
4.4.2	Station Manager - System	. Canad		
		Speed -		
	Home System	a speed -		
4.4.3	Superintendent of Operations -			
	Home System	Speed		
4.4.4	Superintendent of Technical Service	es -		
	Home - System			
4.4.5	Projects and Licensing Engineer -			
	Home - System			
4.4.6	Station Health Physicist -			
	Home - System S	peed -		
	P&T Pager			
4.4.7	NC State Warning Point, Raleigh -		- 500	tem Speed -
	no sease warning rozue, watergir		- sys	cem Speed -
4.4.8	Mecklenburg County Warning Point -	Primary:	Ring Down	Phone
		Back-up:		- System Speed
		Back-up:		Radio, Code:
4.4.9	Lincoln County Warning Point -	Primary:	Ring Down	Phone
		Sack-up:		- System Speed
		Back-up:	Emergency	Radio, Code: _
4.4.10	Catawba County Warning Point -	Primary:	Ring Down	Phone
		Back-up:		- System Speed
		Back-up:	Emergency	Radio, Code:
4.4.11	Iredell County Warning Point -	Primary:	Ring Down	Phone
		Back-up:		- System Speed
		Back-up:	Emergency	Radio, Code:
4.4.12	Gaston County Warning Point -	Primary:	Ring Down	Phone
		Back-up:		- System Spead
		Back-up:	Emergency	Radio, Code:
4.4.13	Cabarrus County Warning Point -	Primary:	Ring Down	Phone
		Back-up:		- System Speed
		Back-up:	Emergency	Radio, Code:

#### NOTE

Radio Code will activate all county radio units.

#### 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 Re	presentative	
		Office	
		Home -	- System Speed -
		Wife work	- System Speed ·
		P&T Pager	
4.4.17	Construction Proj	ect Manager Const	ruction , Ext.
		Home : 1	System Speed
			System Speed -
4.4.18	Superintendent of	Maintenance -	
		Home -	- System Speed -
.4.19	Superintendent of	Administration -	
		Home -	- System Speed
4.4.20	CRISIS MANAGEMENT	CENTER ACTIVATION	
	Hal B. Tucker	Office:	
	or	Home:	- System Speed -
	J. Ed. Smith	Office:	Extension
	or	Home:	- System Speed
	J. W. Hampton	Office:	Extension
	or	Home:	- System Speed
	R. W. Bostian	Office:	
	or	Home:	System Speed -
	Steam Production	Duty Man -	- System Speed -
4.4.21	Radiation Protect	ion Section. Depar	rtment of Muman Resources-
			- System Speed -

EP/O/A	1/50	00/08		
Enclos				
Page	1	of	5	

#### MCGUIRE NUCLEAR STATION NOTIFICATION OF EMERGENCY CONDITIONS

4.5.1	Include as a minimum, 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 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					
	"This is,						
	(Name) (Title)	Mecklenburg					
	at McGuire Nuclear Station. I am notifying you of an	Gaston					
	incident at McGuire, Unit # Please acknowledge	Iredell					
	when you are ready to copy emergency information."						
	1. This is McGuire Nuclear Station.	Cabarrus					
	2. My name is	Catawba					
	3. This message (Number)						
	a. Reports a real emergency.						
	b. Is an exercise message.						
	4. My telephone number 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:	on					
		A.M./P.M.)					
	(Date)						

	The Emergency Condition (Select one of the below options):
	a. Does not involve the release of radioactive materials
	from the plant.
	b. Involves the POTENTIAL for a release of but NO release is occurring.
	c. Involves a release of radioactive material.
	We recommend the following protective action: (select one of the
	below options)
	a. No protective action is recommended at this time.
	b. People living in zones remai
	indoors with doors and windows closed.
	c. People in zones EVACUATI
	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:
	There will be:
þ	a. A followup message
	b. No further communications
	I repeat, this message:
	a. Reports an actual emergency.
	b. Is an exercise message.
	Relay this information to the persons indicated in your alert pro-

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PART	II: Followup Eme	rgency Message Inf	ormation
1.	The type of actua	l or projected rel	ease is:
	a. Airborn	•	
	b. Waterbo	rne	
	c. Surface	spill	
	d. Other		
2.	The source and de	scription of the r	elease is:
3.	a. Release	began/will begin	ata.m./p.m.; time since
	reactor	trip is	_ hours.
	b. The est	imated duration of	the release is hours.
4.	Dose projection b	ase data:	
	Radiological rele	ase:cur	ies, orcuries/sec.
	Wind speed:	mph	
	Wind direction:	From •	
	Stability class:		(A,B,C,D,E,F, or G)
	Release height:		Ft.
	Dose conversion	actor:	R/hr/Ci/M³ (whole body)
			R/hr/Ci/M3 (Child Thyroid)
	Precipitation		
	Temperature at th	ne site:	• F
5.	Dose projections		
		*Dose Commitme	nt*
	Distance	Whole Body	(Child Thyroid)
		Rem/hour	Rem/hour of inhalation
	Site boundary		

2 miles 5 miles 10 miles

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Child Thyroid

#### \*Projected Integrated Dose In Rem\*

Whole Body

Distance

Site	Boun	dary							
2 m	lles					The s		W	
5 mi	lles								
10 5	niles								
Fiel	ld mea	surement	of dose	rate o	or conta	mination	(if avai	lable):	
Emer	gency	actions	underwa	y at th	ne facil	ity incl	ude:		
Onsi	Lte su	pport ne	eeded fro	m offsi	te orga	nization	s:		
Plan	it sta	tus:				+ 5			
a.	Read	tor is:	not tri	pped/tr	ripped				
ъ.	Plan	t is at	% po	wer/hot	shutdo	wn/cold	shutdown/	cooling down	
c.	Prog	nosis is	s: stabl	e/impro	oving/de	grading/	unknown.		
I re	epeat,	this me	essage:						
	a.	Reports	s an actu	al emer	gency.				
	b.	Is an	exercise	message	١.				

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

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

		Communicator
(N	ame)	(Title)
		Mecklenburg
(D	ate) (Time)	(Warning Point)
		Communicator
()	ame)	(Title)
		Gaston
(1)	ate) (Time)	(Warning Point)
(N	ame)	Communicator (Title)
(1)	ame,	(11116)
		Ire ell
(1	ate) (Time)	(Warning Point)
		Communicator
(N	ame)	(Title)
	(=:	Catawba
(1	ate) (Time)	(Warning Point)
		Communicator
(N	ame)	(Title)
(1	ate) (Time)	Lincoln (Warning Point)
(*	acc) (IIIIc)	(waturing rount)
100		Communicator
()	ame)	(Title)
		Cabarrus
(1	ate) (Time)	
/>	ame)	Communicator
(1	ame)	(Title)
		North Carolina
(1	ate) (Time)	(Warning Point
		C
(1	ame)	Communicator (Title)
		South Carolina
(1	ate) (Time)	(Warning Point

#### CRISIS MANAGEMENT CENTER ACTIVATION FORMAT

This is	at McGuire Nuclea	ar Station. This
	Open your Crisis Management Plan to	
following message.	Do you have that Figure?	
My name is	. I am the	(title)
	Station and am notifying you of an i	
Nuclear Station, Un	nit No	
The incident occurr	red at(Hours) on/_/	(Date).
The class of emerge	ency is:	
The initiating cond	dition causing the emergency is as fo	ollows:
Wind direction (blo	tivity:is taking placeis not owing from)degrees. s being taken at present are as follow	
It is recommended	that you activate the Crisis Manageme	ent Center in
accordance with the	e Crisis Management Plan.	
Do you have any que	estions?	
I repeat, this is/	is not a drill.	
Record name of per	son notified, title, and time notified	ed.
(Name)	(Title)	(Time)

Form 34731 (10-81) (Formerly SPD-1002-1)

## DUKE POWER COMPANY PROCEDURE PKIPARATION PROCESS RECORD

STATION: McGuire Nuclear Station	
PROCEDURE TITLE: Site Area Emergency	
PREPARED BY: MS Glover	DATE: 8/18/82
1 2 21 1	DATE: 8-25-82
Cross-Disciplinary Review By:	
TEMPORARY APPROVAL (IF NECESSARY):	
By:(SRO)	Date:
Ву:	Date:
APPROVED BY: Swlage	Date: 8-30-82
MISCET LANEOUS:	
Reviewed/Approved By:	Date:
Reviewed/Approved By:	Dare:

# DUKE POWER COMPANY MCGUIRE NUCLEAR STATION SITE AREA EMERGENCY

1.	0	Sy	TED	to	DES

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

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	
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 15 minutes of declaring the emergency for State and Local authorities) notification of those personnel and Warning Points and shall activate those Emergency Centers indicated on Enclosure 4.3 for the appropriate Initiating Condition/Emergency Procedure listed in Enclosure 4.2.

#### 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 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 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 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 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 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.

7 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 Crisis Management Center Activation Format.

EP/0/A/5000/07 Enclosure 4.1 Page 1 of 1

# EMERGENCY CLASSIFICATION GUIDE FLOWCHART

ALERT AND LEAR HATE CAPACITY TO SHE AND AND THE AND AND THE AND AND THE AND TH	8 X1ST COL. D BHUT DOWN ANY NA RANNING ACTIVATION O RANNING ACTIVATION OF REALITY RECALITYONING TEAMS ON RESUL
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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, (INSP5040, 5050, 5060, 5070) and high containment liding sump level, (INIP5260, 5270) high containment humidity, high containment humidity, 228P5400, 5410) and EMF 38, 39, and 48 plarm.	EP/1/A/5000/02	
4.2.2	Degraded core with possible loss of coolable geometry (indicators should include instrumentation to detect inadequate fore cooling, coolant activity and/or containment radioactivity levels).	Valid readings on incore thermocouples above 700°F and $\Delta T$ rapidly increasing or no $\Delta T$ across core.	AP/1/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, (INCP5151, 5160, 5172) and possible lifting of steam generator PRV's and/or safety valves.	EP/1/A/5000/04, AP/1/A/5500/07	

EP/0/A/5000/07 Enclosure 4.2 Page 2 of 6

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 (INSP5040, 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
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
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, AP/1/A/5500/17
4.2.8	Transient requiring operation of shutdown systems with failure to scram (continued power generation but no core damage immediately evident).	Reactor remains critical after all attempts to trip reactor have been completed.	EP/1/A/5000/01, AP/0/A/5500/34
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, or spent fuel pool water below fuel level, or EMF16, 17, 38, 39, 40, or 42 alarm.	AP/1/A/5500/25

EP/0/A/5000/07 Enclosure 4.2 Page 3 of 6

Initiati	ng Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document	
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	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 these levels to the thyroid) at the site boundary for adverse meteorology (See Note 2).	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)  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.	HP/0/B/1009/05, HP/0/B/1009/09	
		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 outside the site boundary).		

Initiati	ng Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document	
4.2.13	Imminent loss of physical control of plant.	Physical attack on the plant involving imminent occupancy of control room and auxiliary shutdown panels.	Station Security Plan	
4.2.14	Severe natural pheno- mena being experienced or projected with plant not in cold shutdown.		AP/0/A/5500/29, AP/0/A/5500/30	
	4.2.14.1			
	Earthquake greater than SSE (Safe Shutdown Earth- quake) levels.	(>.15gH, >.1gV) as determined by monitoring seismic instrumentation and recording devices. (SMP-1)		
	4.2.14.2			
	Flood, low water, hurri- cane surge, seiche greater than design levels (lake tidal waves) or failure of protection of vital equipment at lower levels.	As determined by Shift Supervisor/ Fmergency Coordinator.		
	4.2.14.3			
	Sustained winds or torna- does in excess of design levels.	(>95mph) as observed or documented by the National Weather Service Information.		
4.2.15	Other hazards being ex- perienced or projected with plant not in cold shutdown.		AP/0/A/5500/32, AP/0/A/5500/31	

(3)

Initiating Conditions

Emergency Action Level (EAL)

Emergency Procedure/Document

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.

4.2.16 Other plant conditions
exist that in the judgement of the Shift Supervisor, the Operations
Duty Engineer, the Superintendent of Operations,
or the Plant Manager warrant activation of emergency centers and monitoring teams and a
precautionary public
notification to the
public near the site.

As determined by Shift Supervisor/ Emergency Coordinator. As dictated by Plant Conditions.

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Enclo	su	re	4		2
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Initiati	ng Conditions	Emergency Action Level	(EAL)	Emergency Procedure/Document
4.2.17	Evacuation of control room and control of shut-down systems not established from local stations in 15 minutes.	As determined by Shift	Supervisor/	OP/O/A/6350/02, AP/1/A/5500/17

### 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 Realth 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 4.4, Enclosure 4.	6)

### TELEPHONE LISTING

		01110			
4.4.1	Operations Duty Engineer (PA System P&T Pager -	em)			
4.4.2	Station Manager				
		m Speed .			
		n Speed ·			
4.4.3	Superintendent of Operations -				
	Home System	n Speed			
4.4.4	Superintendent of Technical Service	ces -			
	Home System				
4.4.5	Projects and Licensing Engineer -				
	Home System	n Speed .			
4.4.6	Station Health Physicist -				
	Home - System S	Speed -			
	P&T Page1				
4.4.7	NC State Warning Point, Raleigh -		C		
7.7.7	no state warning rothe, watergn -		- sys	tem Speed -	
4.4.8	Mecklenburg County Warning Point	Deimares	Ring Down	Dhana	
	meeticabulg country warming rothe	Back-up:		System Speed	
		Back-up:		Radio, Code:	
4.4.9	Lincoln County Warning Point -	Primary:			
		Back-up:		- System Speed	
		Back-up:	Emergency	Radio, Code:	
4.4.10	Catawba County Warning Point -	Primary:	Ring Down	Phone	
		Back-up:		- System Speed	-
		Back-up:	Emergency	Radio, Code:	
4.4.11	Iredell County Warning Point -	Defeat	Dian Dam	Dt	
	reduct dodney warning rothe -	Primary: Back-up:	Ring Down	- System Speed	
			Fmergency	Radio, Code:	-
		Duck up.	Luci Beliey	Madio, Code.	
4.4.12	Gaston County Warning Point -	Primary:	Ring Down	Phone	
		Back-up:		- System Speed	-
		Back-up:	Emergency	Radio, Code:	
4.4.13	Cabarrus County Warning Point -	Primary:	Ring Down	Phone	
	and a second second	Back-up:	wing powil	System Speed	
		Back-up:	Emergency	Radio, Code:	
			- Some y	, oude.	-

### NOTE

Radio Code will activate all county radio units.

### TELEPHONE LIST

4.4.14	SC State Warning	Point -		
4.4.15	N.R.C. Operation	Center, Emergency	Notification System (L. > Pho	ne)
4.4.16	N.R.C. Station Re	Office - Home - Wife work P&T Pager	- System Speed - - System Speed	
4.4.17	Construction Proj	ect Manager Const	truction	
		Home :		or
4.4.18	Superintendent of	Maintenance Home -	System Speed -	
4.4.19	Superintendent of	Administration Home -	System Speed -	
4.4.20	CRISIS MANAGEMENT	CENTER ACTIVATION		
	Hal B. Tucker or	Office: Home:	- System Speed -	
	J. Ed Smith	Office: Home:	Extension - System Speed	-
	J. W. Hampton or	Office: Home:	Fytension - System Speed	1
	R. W. Bostian or	Office: Home:	System Speed -	
	Steam Production	Duty Man -	System Speed -	
4.4.21	Radiation Protect		tment of Human Resources- - System Speed -	

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## 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, (Meck	
	Iredell, Lincoln, Gaston, and Cabarrus) and the South Car	
	Point.	. viina marning
	NOTE 1: See Enclosure 4.4, Telephone Listing	
	내가 있는 것은 경우를 가지 않는 것들이 없어 하지 않는 것들이 가지 않는 것이 없다면 하는 것이 없다면 하는 것이 없다면 하는데 없다면 하는데 없다면 하는데 없다면 하는데 없다면 하는데 없다면 다른데 없다면 하는데 없다면 하	1 64
	NOTE 2: A. Complete Part I of this format as a minima	il lirst
	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
	"This is,	
	(Name) (Title)	Mecklenburg
	at McGuire Nuclear Station. I am notifying you of an	Gaston
	incident at McGuire, Unit # Please acknowledge	Iredel1
	when you are ready to copy emergency information."	Lincoln
	1. This is McGuire Nuclear Station.	Cabarrus
	2. My name is	Catawba
	3. This message (Number )	
	a. Reports a real emergency.	
	b. Is an exercise message.	
	4. My telephone number is	
	5. Message Authentication:	
	6. The class of emergency is:	
	a. Notification of an Unusual Event	
	b. Alert	
	[1] [2] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4	
	c. Site Area Emergency	
	d. General Emergency	
	7. The Classification of Emergency was declared at:	
		A.M./P.M.)
	(Date)	

The Emergency Condition (Select one of the below options):
a. Does not involve the release of radioactive materials
from the plant.
b. Involves the POTENTIAL for a release of but NO release is occurring.
c. Involves a release of radioactive material.
We recommend the following protective action: (select one of the
below options)
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:
There will be:
a. A followup message
b. No further communications
I repeat, this message:
a. Reports an actual emergency.
b. Is an exercise message.
Relay this information to the persons indicated in your alert pro-

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PART	II: Followup Emergency Message Information
1.	The type of actual or projected release is: a. Airborneb. Waterbornec. 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.
4.	Dose projection base data:
	Radiological release:curies, orcuries/sec.
	Wind speed: mph
	Wind direction: From
	Stability class: (A,B,C,D,E,F, or G)
-	Release height:Ft.
	Dose conversion factor:R/hr/Ci/M³ (whole body)
	R/hr/Ci/M³ (Child Thyroid)
	Precipitation
	Temperature at the site:*F
5.	Dose projections:
	*Dose Commitment*

Distance	Whole Body Rem/hour	(Child Thyroid) Rem/hour of inhalation
Site boundary		
2 miles	The state of the s	
5 miles		
10 miles		

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Child Thyroid

### \*Projected Integrated Dose In Rem\*

Whole Body

Distance

11. Do you have any questions?

Site Boundary

2 miles				-
5 miles				-
10 miles				
Field measurem	ent of dose rate o	r contamina	ation (if available):	
Emergency acti	ons underway at th	e facility	include:	=
Onsite support	needed from offsi	te organiza	ations:	
Plant status:				
a. Reactor i	s: not tripped/tr	ipped		
b. Plant is	at:% power/hot	shutdown/	cold shutdown/cooling	down
c. Prognosis	is: stable/impro	ving/degrad	ling/unknown.	
I repeat, this	message:			
a. Repo	rts an actual emer	CARCU		
a. mepo	its an actual emer	gency.		

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

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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)
_	7= \		Iredell
	(Date)	(Time)	(Warning Point)
(4) _	4:		Communicator
	(Name)		(Title)
	72	, <u> </u>	Catawba
	(Date)	(Time)	(Warning Point)
(5) _	7		Communicator
	(Name)		(Title)
		(a. )	Lincoln
	(Date)	(Time)	(Warning Point)
(6) _	/N X		Communicator
	(Name)		(Title)
17	/5	(T:	Cabarrus
	(Date)	(Time)	(Warning Point)
(7)	/37>		Communicator
	(Name)		(Title)
	(2	(2:>	North Carolina
	(Date)	(Time)	(Warning Point)
(8)	(N)		Communicator
	(Name)		(Title)
	/5	(m:)	South Carolina
	(Date)	(Time)	(Warning Point)

### CRISIS MANAGEMENT CENTER ACTIVATION FORMAT

This is	at McGuire Nuclear	Station. This
	Open your Crisis Management Plan to	
following message.	Do you have that Figure?	
My name is	. I am the	(title
at McGuire Nuclear S	tation and am notifying you of an in	cident at McGuire
Nuclear Station, Uni		
The incident occurre	d at(Hours) on//_	_ (Date).
The class of emergen	cy is:	
The initiating condi	tion causing the emergency is as fol	llows:
Wind direction (blow	vity:is taking placeis not ing from)degrees. being taken at present are as follows.	taking place.
It is recommended th	at you activate the Crisis Managemen	nt Center in
accordance with the	Crisis Management Plan.	
Do you have any ques	tions?	
I repeat, this is/is	not a drill.	
Record name of perso	n notified, title, and time notified	
(Name)	(Title)	(Time)

Form 34731 (10-81) (Formerly SPD-1002-1)

# PROCEDURE PREPARATION PROCESS RECORD

(1) ID No: EP/O/A/5000/06 Change(s) 0 to 0 Incorporated

(2)	STATION: McGuire Nuclear Station	
(3)	PROCEDURE TITLE: Alert	
	- Me lat	
(4)	PREPARED BY: M. Glover	DATE: 8/18/82
(5)	REVIEWED BY: A Milbert	DATE: 8-25-82
	Cross-Disciplinary Review By:	N/R: 04004
(6)	TEMPORARY APPROVAL (IF NECESSARY):	
	By:(SRO)	Date:
	Ву:	Date:
(7)	APPROVED BY: George W. Coge	Date: 8-30-82
(8)	MISCELLANEOUS:	
	Reviewed/Approved By:	Date:
	Reviewed/Approved By:	Date:

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# DUKE POWER COMPANY McGUIRE NUCLEAR STATION ALERT

4	0	e	
1.	U	2 Amb	toms

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

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 acutal plant condition with Enclosure 4.1, Emergency Classifi-
cation 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 15 minutes of declaring the emergency for State and Local authorities)
notification of those personnel, and Warning Points and shall activate those Emergency Centers indicated on Enclosure 4.3 for the appropriate Initiating Condition/Emergency Procedure listed in Enclosure 4.2.

### 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 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.

- 3.6 The Emergency Coordinator shall provide protactive 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.

1	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 Crisis Management Center Activation Format.

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# EMERGENCY CLASSIFICATION GUIDE FLOWCHART

	EVENT CATEGORY	VANDOAL SYSMI	CALLET	BITE AREA SMENGENCY	SEMEDAL EMERGENCY
	ABNORMAL FRIMARY LEAR RATE	SECONDA ETHER PRIMARY SECONDAY LER RATE TECHNICAL SPECIFICATION OR PRIMARY SYSTEM LEAK RATE TECHNICAL SPECIFICATION	ONEATER THAN SO OPLE	GAPAGITY CAPAGITY	SMALL OR LANGE BREAK LOCA OCCURS ARD CONTAINMENT FERFORMANCY IS UNSUCCESSED AFFECTING LONGEN TERM SUCCESS OF GRADATION OF MELT IN SEVERAL HOUNS WITHOUT CONTAINMENT
	ABRORMAL CORE CONDITIONS AND FUEL DAMAGE	PUBLICAMAGE INDICATION ABROMAL COOLANT TEMP AND/OR PRESSURE OR ABROMAL FUEL TEMPS WHICH EXCEED TECH SPEC. LIMITS	T. COOL ANY PIAM SEIZURE LEADING TO	OF COOL ABLE GEOMETRY	LOSS OF 2 OF 3 PISSION PRODUCT SARNENS WITH FOTENIAL LOSS OF THE THIRD BARNER
⣠5 * *	PALLURE ONE AND ME NVISV	TAKEUM OF ASSET OF MELLEY  VALVE IN ASSET MELLEY  TO ELOS P POLLOWING A REDUCTION  OF APPLICASE PRESSURE  OF APPLICASE PROGRESS  FECH SPEC.  ENTREM PROGRESSION  FEATURE OR FIRE PROFICTION  FEATURE OR FIRE PROFICTION  FECH SPEC.  ENTREM REQUIRING SHALLDOWN BY  ISCH. SPEC.	MALFUNCTION CAUGING LEAKAGE	CONTAINMENT WITHOUT BOLATION	SALLING OF ECES TO PERFORM LEADING OF COST ALEY TO THE LEADING OF COST ALEY TO THE DESTANDATION OF MALLY IN MINUTES TO HOURS, LOSS OF COST ALENGEN HITEGRIYY MAY BE IMMINERY
:	RFFLUENT OR AADIATION LEVELS	PEGIFICATION LIMITS EXCEOSED	CONTINUENTION LEVELS OR AIRSORNES CONTINUENTION WINCEL HONCATES BEVER DE DRADATION IN CONTINUE OF ACOLOGICAL STREAMS. THAN 10 TIMES TECH BYE. HISTANTANEOUS LIMITS	CONTRIBUTION TO STATE ST	CONTESTONE MONITONE DETECT LEVELS CONTESTONE TIVE NO. AT THE SITE OF SERVING TIVE NO. AT THE SITE OF SERVING TO TO TO THE SITE OF SERVING TO TO TO TO THE SITE OF SERVING TO
3	DECAY HEAT OR REACTIVITY		SYSTEM TO METACTON PROTECTION SYSTEM TO INITIATE AND COMPLETS ASSAM WHICH BRINGS THE MEACTON DUSCHIESEL LOSS OF WY FUNCTION NEEDED FOR PLANT COLD BHILD COMM	TOWERS THE BITTE BOUNDARY TOWARDENT REQUESTED CONTINUED TO BENEVICION BYSTEMS WITH PALLUNE TO BENEVICION BYSTEMS WITH PALLUNE TO BENEVICE AND STATE OF TOWER OF TOWER TO BE ONE OF TOWER TOWE	FOWER PATIONS OF OFFERE COME BUTTON OF SETTE COME BUTTON OF SETTE COME BUTTON OF SETTE SETTE COME BUTTON OF SETTE SET
3	ELECTRICAL ON TOWER FAILURES	CHAITE AC FOWER CAPABILITY	ALL CHEST OF COFFERE FOWER AND LOSS OF	PLANT HOT BHLTTDOWN 1.086 OF OFFITE FOWER AND LOSE OF ALL OMSITE AC FOWER FOR MORE THAN 18 MIN. FOR MORE 1.085 OF ALL VITAL OMSITE GC FOWER	CONSTQUENCES IF PLANT TRIP DOES  NOT PLANT TOWN OCCUME BUT REQUISITE  DECAY HAT REMOVAL SYSTEM IS C.
81 FIRE	FIRE CONTROL MODE BUACUATION	MORE THAN 19 MINUTES	BAPETY BYSTELLS	FOR MORE THAN 18 MAN FINE COMPANIENCE THE FUNCTIONS OF SAFETY BYSTEME	NEWOVAL MEANS ARE REMDERED UNAVAILABLE COME DEGRADATION ON MELL COME
	ONITO	MORE A YOUR OR ALL MARK ON	EVACUATION OF CONTROL ROOM ANTICIPATED ON REGLINED WITH CONTROL OF SHATDOWN EVITEMS (STALISHED FROM LOCAL STATIONS)	EVACUATION OF CONTROL ROOM AND CONTROL OF SHUTDOWN EVETURE NOT ESTABLISHED FROM LOCAL STATIONS IN 18 MIN.	HOUNE WITH BUSSEQUENT CONTAINMENT FAILUNG
		ON 6FFLUENT PARAMETERS NOT FUNCTIONING IN CONTAGE IN COME TO AN EXTENT AEGUMING PLANT ENODES TO OTHER SIGNIFICANT LOSS OF ASSESSMENT OR COMMUNICATION CARAGEL ITY	(AMHUNICATONS) LOST	MOST OR ALL ALAMAN [ANNINCIATORS] LOST AND PLANT TRANSIENT INITIATED OR IN PROGRESS	ANY MAJOR INTERNAL OR EXTERNAL BUSINESS OF THE STATISTICS OF THE S
	TOTAL MANGELING ACCIDENT		PUEL DAMAGE ACCIDENT WITH  RELEASE OF RADIOACTIVITY TO  CONTAINMENT OR FUEL HANDLING	CONTAINMENT ON FUEL NAME, ING	
2	HAZANDS TO PLANT OFERATIONS	PROJECTED THAT AFFECT PLANT OFERATIONS	BEVENE HE HAZANDS DEING EXPENIENCED ON PROJECTED POTENTIALLY AFFECTING BAFETY SYSTEMS	ON PROJECTED THAT COMPROMISE THE FUNCTIONS OF SAFETY SYSTEMS.	
	SECURITY IMPEATS  MATURAL EVENTS	ON ATTHURSTO SANDO ACE  ON ATTHURSTO SANDO ACE  NATURAL PHENDIEN SENDO  EXTENSENCIO ON PROJECTED SEVOND  USUAL LEVELS	BYENERS HATURAL PHENDMENA BEING EXPERIENCED ON PROJECTED	MAY ACTION TO THE CONTROL SHALL SHOW THE CONTROL OF 1.ATT 1.046 OF PT VIET CONTROL OF PT	PACINITY SECAL CONTROL OF THE PACINITY OF ENTERNAL OF
1		THE PART CONDITIONS SHEET THAT THAT THE PART OF THAT CHERNIS ON THE PART OF THE CHEATER OF THE PART OF	MARRANTING PACCUOTIONS EXIST NAMENATING PACCUOTIONARY ACTIVATION OF THE TSC	OTHER PLANT CONDITIONS SHEET  BARANAVINA ACTIVATION OF CAC,  BARANITORIAN TAINS AND OF CAC,  BARANITORIAN TAINS AND OF CAC,  PARCIAL FIGURE YEAR AND OF SHEET  TO THE PUBLIC MEAN THE BITE	COMMON DAMAGE TO PLANT STREAMS FROM WITTER OR BOUNGE HAS MAKE NATIONAL THREE AND MAKE THAT WAS BEINGE HAS MAKE RADIOACTIVITY IN A SHORT THE REPLANT TO PLANTE AND MAKE THE RESTURNITY OF A SHORT THE RESTURNITY OF A SHORT THE

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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	Severe loss of fuel cladding:	a. Very high coolant activity sample (e.g., 300 μCi/cc equivalent of I-131)	
		b. Failed fuel monitor (EMF-48) or lab analysis indicates increase greater than 1% fuel failures within 30 minutes or 5% 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/5000/04, AP/1/A/5500/07
4.2.3	Rapid failure of Steam Generator tubes.	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

			Page 2 of 5
Initiati	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/1/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>	
		<ol> <li>High steam flow and Lo Lo         Tavg or Low steam pressure         safety injection signal for         rupture downstream of MSIV's.     </li> </ol>	
4.2.5	Primary coolant leak rate greater than 50 gpm.	Leak >50gpm as indicated by calcu- lation or other indication. (i.e., sump levels)	EP/1/A/5000/02, AP/1/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.	нР/0/в/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 EP/0/A/5000/07, for extended loss).	Undervoltage alarm on 7KV buses, and blackout load sequencers actuated.	AP/1/A/5500/07
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
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/1/A/5500/08, OP/0/A/6150/14, AP/1/A/5500/05

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Initiati	ng Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
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, OP/1/A/6100/04
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. EMF-16 and 17 alarm.  2. EMF-38, 39, 40, or 42	AP/1/A/5500/25
4.2.13	Fire potentially affecting	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
4.2.15	Radiological effluents greater than 10 times Tech Specs instantaneous	For EMF35 - Low Range offscale High Range 1 x 10 cpm	
	limits (an instantaneous rate which, if continued over 2 hours, would result in about lmr at the site boundary under average meteorological conditions or whenever effluent monitors or radiological monitoring detect these levels).	For EMF36 - Low Range 2 x 10 <sup>6</sup> cpm High Range 5 x 10 <sup>2</sup> cpm	нР/0/В/1009/05
4.2.16	Ongoing security compromise.	As reported by Security force.	Station Security Plan

Initiati	ng Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4.2.17	Severe natural phenomena being experienced or projected:		AP/0/A/5500/30, AP/0/A/5500/29
	a. Earthquake greater than Operational Basis Earthquake Level	>0.08gH, >.053gV, Annunciator Alarm, (AD-13).	
	b. Flood, low water, hur- ricane surge, seiche near design levels. (Lake tidal wave)	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 experienced or projected.		AP/0/A/5500/32, AP/0/A/5500/31 AP/1/A/5500/23
	a. Aircraft crash on facility.	As observed.	
	b. Missile impacts from whatever source on facility.	As observed.	
	<ul> <li>Know explosion damage to facility affecting plant operation.</li> </ul>	As observed.	
	d. Entry into facility environs of toxic or flammable gases.	As observed.	
	e. Turbine failure causing casing pene-tration.	Turbine trip and observation of turbine malfunction or failure.	

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Initiati	ing Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4.2.19	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.
4.2.20	Evacuation of control room anticipated or required with control of shutdown systems established from local station.	As determined by Shift Supervisor/ Emergency Coordinator.	AP/1/A/5500/17, OP/1/A/6100/94

## 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 4.4, Enclosure 4.6)	

### TELEPHONE LISTING

4.4.1	Operations Duty Engineer (PA System P&T Pager -	em)	
4.4.2	Station Manager		
		Speed -	
		Speed -	
4.4.3	Superintendent of Operations		
	Home System	Speed	
4.4.4	Superintendent of Technical Service	99 -	
	Home System		
4.4.5	Projects and Licensing Engineer -		
	Home System	Speed ·	
4.4.6	Station Health Physicist Home System S		
	Home System S P&T Page:	peea -	
	rar rager		
4.4.7	NC State Warning Point, Raleigh -		- System Speed -
4.4.8	Mecklenburg County Warning Point -	Primary:	Ring Down Phone
	The state of the s	Back-up:	
			Emergency Radio, Code:
4.4.9	Lincoln County Warning Point -	Primary:	
		Back-up:	
		Back-up:	Emergency Radio, Code:
4.4.10	Catawba County Warning Point -	Primary:	Ring Down Phone
		Back-up:	
			Emergency Radio, Code:
4.4.11	Iredell County Warning Point -	Primary:	
		Back-up:	
		Back-up:	Emergency Radio, Code:
4.4.12	Gaston County Warning Point -	Primary:	Ring Down Phone
	dated vointy naturals torne	Back-up:	- System Speed
		Back-up:	
4.4.13	Cabarrus County Warning Point -	Primary:	Ring Down Phone
		Back-up:	- System Speed
		Back-up:	Emergency Radio, Code:

### NOTE

Radio Code . will activate all county radio units.

### TELEPHONE LIST

4.4.14	N.R.C. Operation	center, mergeno	y Notification System (ENS Phone
4.4.15	N.R.C. Station Re		
		Office -	
		Home -	System Speed
		Wife work P&T Pager	- System Speed
4.4.16	Construction Proj	ec Manager Con	struction
		Home :	- System Speed -
			- System Speed -
4.4.17	Superintendent of		
		Home -	- System Speed ·
4.4.18	Superintendent of	Administration	
		Home -	- System Speed ·
4.4.19	CRISIS MANAGEMENT	CENTER ACTIVATI	ON
	Hal B. Tucker	Office:	
	or	Home:	- System Speed -
	J. Ed Smith	Office:	Extension
	or	Home:	- System Speed
	J. W. Hampton	Office:	Extension
	or	Home:	- System Speed
	R. W. Bostian	Office:	
	or	Home:	- System Speed -
	Steam Production	Duty Man -	System Speed -
4.4.20	Radiation Protect	ion Cootion Don	eartment of Human Resources-

> System Speed .

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### MCGUIRE NUCLEAR STATION NOTIFICATION OF EMERGENCY CONDITIONS

4.5.1	Include as a minimum, the following information to the Nowarning Point, and to the six County Warning Points, (Me Iredell, Lincoln, Gaston, and Cabarrus).  NOTE 1: See Enclosure 4.4, Telephone Listing  NOTE 2: A. Complete Part I of this format as a minimum	cklenburg, Catawba,
	notification of a reportable incident.  B. Complete Part I and II of this format to minimal followup information.  PART I: Initial Emergency Message Information  "This is	provide  ACKNOWLEDGEMENT
	(Name) (Title)	Mecklenburg
	at McGuire Nuclear Station. I am notifying you of an	Gaston
	incident at McGuire, Unit # Please acknowledge	Iredell
	when you are ready to copy emergency information."	Lincoln
	1. This is McGuire Nuclear Station.	Cabarrus
	2. My name is	Catawba
	3. This message (Number)a. Reports a real emergencyb. Is an exercise message.  4. My telephone number is	
	5. Message Authentication:	
	6. The class of emergency is: a. Notification of an Unusual Eventb. Alertc. Site Area Emergencyd. General Emergency 7. The Classification of Emergency was declared at:	on
	(Dara)	A.M./P.M.)

The	Emergency Condition (Select one of the below options):
	_ a. Does not involve the release of radioactive materials
	from the plant.
_	_ b. Involves the POTENTIAL for a release of but NO release is occurring.
	c. Involves a release of radioactive material.
We	recommend the following protective action: (select one of the
bel	ow options)
	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:
The	re will be:
	a. A followup message
	b. No further communications
Ir	epeat, this message:
	a. Reports an actual emergency.
	b. Is an exercise message.
Rel	ay this information to the persons indicated in your elert pro-
	ures for an incident at McGuire Nuclear Station.
	ecord the Name, Title, Date, Time, and Warning Point at end of
	the state of the s

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Enclosu	re	4.5	
Page	3	of	5

	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.
4.	Dose projection base data:
	Radiological release:curies, orcuries/sec.
	Wind speed: mph
	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/M <sup>5</sup> (Child Thyroid)
	Precipitation
	Temperature at the site:°F
	Dose projections:
5.	F1

Distance	Whole Body Rem/hour	(Child Thyroid) Rem/hour of inhalation
Site boundary		
2 miles		
5 miles		
10 miles		

Child Thyroid

### \*Projected Integrated Dose In Rem\*

Whole Body

Distance

	V Land Street							
Site	Bound	ary						_
2 mi	les							_
5 mi	les							_
10 m	iles							
Fiel	d meas	urement	of dose	rate or	contaminati	on (if	available)	:
P		· cedona	underzen			-1-4		-
rmer	gency	ictions	underway	at the	facility in	clude:		_
_					organizati			
Onsi		port nee						
Onsi	te sup	port nee	ded from		organizati			
Onsi	te sup	port nee	not trip	offsite	organizati	ons: _		g
Onsi Plan	te sup	port needus: or is: is at:	not trip	oped/trip	organizati	ons: _	own/coolin	g
Plan a. b.	te sup	port needus: or is: is at:	not trip% pow	oped/trip	organizati ped hutdown/col	ons: _	own/coolin	g
Plan a. b.	te sup React Plant Progn	port needus: or is: is at: osis is: this mes	not trip% pow stable ssage:	oped/trip	organizati ped hutdown/col	ons: _	own/coolin	g
Plan a. b. c.	React Plant Progn	port need us: or is: is at: osis is: this mes Reports	not trip% pow stable ssage:	oped/trip	organizati ped hutdown/col	ons: _	own/coolin	g

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

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

(1)			Communicator
	(Name)		(Title)
			Mecklenburg
	(Data)	(Time)	(Warning Point
(2)			Communicator (Title)
	(Name)		(Title)
			Gaston
	(Data)	(Time)	(Warning Point
(3)			Communicator
	(Name)		(Title)
			Iredell
	(Date)	(Time)	(Warning Point
(4)			Communicator
	(Name)		(Title)
			Catawba
	(Date)	(Time)	(Warning Point
(5)			Communicator
	(Name)		(Title)
			Lincoln
	(Date)	(Time)	(Warning Point)
(6) _			Communicator
	(Name)		(Title)
			Cabarrus
	(Date)	(Time)	(Warning Point)
(7)			Communicator
	(Name)		(Title)
			North Carolina
	(Date)	(Time)	(Warning Point)

#### CRISIS MANAGEMENT CENTER ACTIVATION FORMAT

This is	at McGuire Nuclear Stat	ion. This
	en your Crisis Management Plan to Figur	
	you have that Figure?	
My name is	. I am the	(title)
	tion and am notifying you of an inciden	
Nuclear Station, Unit	No	
The incident occurred	at(Hours) on//_ (Da	te).
	is:	
The initiating conditi	on causing the emergency is as follows:	
Release of radioactivi	ty:is taking placeis not takin	g place.
	ng from)degrees.	
	eing taken at present are as follows:	
	you activate the Crisis Management Cen	ter in
accordance with the Cr	risis Management Plan.	
Do you have any questi	lons?	
I repeat, this is/is n	not a drill.	
Record name of person	notified, title, and time notified.	
(Name)	(Title) (Time)	

Form 34731 (10-81) (Formerly SPD-1002-1)

#### DUKE POWER COMPANY PROCEDURE PREPARATION PROCESS RECORD

(1) ID No: EP/O/A/5000/05 Change(s) 0 to 0 Incorporated

PROCEDURE TITLE: Notification of Unusual	
PREPARED BY: M. S. Glover	DATE: 8/18/82
REVIEWED BY: 19 19 19 19 19 19 19 19 19 19 19 19 19	DATE: 8-25-82
Cross-Disciplinary Review By:	N/R:
TEMPORARY APPROVAL (I7 NECESSARY):	
By:(SRO)	Date:
Ву:	Date:
APPROVED BY: Leage w. Case	Date: 8-30-82
MISCELLANEOUS:	
in social and social a	
Reviewed/Approved By:	Date:

EP/0/	A/500	00/05	
Page	1	of	3

# DUKE POWER COMPANY McGUIRE NUCLEAR STATION NOTIFICATION OF UNUSUAL EVENT

#### 1.0 Symptoms

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	Subseque	t Action
Init	ial/N/A	
	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 assure 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
		네 : (1) 10 HO (1) : (1)

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
Commission in 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 those personnel/Warning Points indicated on Enclosure 4.3 for the appropriate Initiating Condition/Emergency Procedure listed in Enclosure 4.2.

#### 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, Notification of Emergency Conditions for information to be provided to Steam Production Duty Engineer/Corporate Communications Department.

- 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 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 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).
  - 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.

3.1	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.
 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 Notification of Emergency Conditions (Steam Production Duty Engineer/Corporate Communication Department).

Enclosure 4.1 Page 1 of 1

# EMERGEMCY CLASSIFICATION GUIDE FLOWCHART

EVENT CATEGORY	WHISTON SYEM	CAME	SHE AREA SHERGENCY	SENSONS SAS DERKET
ABROTHAL PRIMARY LEAR RATE	SECRETAIN STREET PRIMARY SECRETAINESS SECONDAINESS	GREATER THAN SO GPM	ENOWN 1 055 OF COOLANT ACCIDENT ILOCAL GREATER THAN MAKELIF CAFACITY	SHALL OR LANGE BREAK LOCA OCCURS AND CORTAINMENT FOR RE ORMANNETE IS UNSECTESS. AP ILLTING LONGER TENN SUCCESS OF RECT. COULD LE AD TO COME DEGRADATION OR MELT IN SEVERAL HOUNS WITHOUT CONTAINMENT
STEAM LINE BREAK OR MS NVAV	TOTAL DAMAGE INDOCATION  FRESSLORE ON ASSOCIATE TELE AND/OR  FRESSLORE ON ASSOCIATE TELE TELES  WHICH SIZE ON ASSOCIATE TELES  FALLINES ON ASSOCIATE TELES  OCLOSE ON ASSOCIATE TRED STEEM  OF APPLICABLE PRESSLORE  FOR TECH SPEC.  END OF FOR WHOTECTION  FUNCTION ASSOCIATED SHOUTED  FUNCTION ASSOCIATED	SEVER LOSS OF FULL CLADONG TO COOL AND THAN THAN THE PERSONS LEADING TO COOL AND THAN THE PERSONS LEAKAGE WALFUNGTION CAUSING LEAKAGE	OF COOL ABLE OROMETRY  OF COOL ABLE OROMETRY  STRAM LINE BRIAN DUTSION  CONTAINABLE INTHOUT SOLATION	LOSS OF 30 2 PASSION PRODUCE AND STATEMENT OF STATEMENT O
EFFLUENT OR AADIATION LEVELS	Bricipication Limits ancients	RADIATION LEVEL OR AIRCORNE CONTAMINATION BRICH HOLD ATER BEVER DE CRADATION IN CONTAMINA RADIOLOGICAL EPI USETS OR ATER THAN 10 TIMES FICK BYE.	CONNEGROUS MOUSTONS DESCRIPENTANTS OF CONNEGROUS MOUSTON TO READ MOUSTON TO MENTER THAN SO BEATING WE A FOR TWO FOR A COUNTY OF THE BITE SOUND ANY THE BITE SOUND AND A COUNTY AND A COU	CONTREPONDENCE OF TRAVEN WE.  CONTREPONDENCE OF THE SITE BOUNDARY UNDER ACTIVACH BOUNDARY UNDER ACTIVACH METERORIC GONCAL CONCITACH METERORIC GONCAL CONCITACH THE BOOK GONCAL CONCITACH METERORIC GONCAL CONCITACH ANTER BOOK GONCAL CONCITACH ANTER BOOK GONCAL CONCITACH ON ANTER MEASURED IN THE ENVIRONS
DECAY MAN ON REACTIVITY		CALLURE OF MEACTON PROTECTION  OF STATEM TO INITIATE AND COMPLETE  A SCAM WHICH BAINGE THE NEACTON  COMPLETE LOSS OF ANY PUNCTION  NEEDE D'ON FLANT COLD SHUTDOWN	OUTSIDE THE BITE BOUNDARY OF ALTION OF HALL DAY OF SHALL	FOWERITES C. LOSS OF DEFENTE COME BILLTONN STEELS & C. COME SECRETS GCAMBICOLIC EAD TO COME SHELL F
ELECTRICAL ON TOWER FAILURES	ONSITE AC POWER CAFABILITY	ALL CHAFFE AC FOWER AND LOSS OF THE LOSS OF ALL CHAFFE DC FOWER	ALL MARIE AC FOWER AND LOSS OF ALL MRITE AC FOWER FOR MORE THA 15 MIN.	CONSTQUENCES IF TOMP THE DOES MOT FUNCTION BHUTDOWN OCCURS BUT REQUISITE OF CAY HEAT BROUND SYSTEM IS COMES OF MARION HONDERS OF THE THE PROPERTY.
CONTROL ROOM EVACUATION	MORE THAN 18 MINUTES	SATITY STREAM SALITY BYSELMS SALITY STREAM SALITY STREAM SALITY STREAM ANTICIPATED ON REQUINE WITH CONTROL OF SHUTDON STREAM STR	O MORE THAN 18 MIN.  19.1 COMP ROLLIGHED THE UNCTIONS  CASETY SYSTEMS  CASETY SYSTEMS  COSTROL OF SHAFFOOWN VITEMS WOT  SSTAMLISHED FROM LOCAL STATIONS	NEMBYAL MEANS ARE RENDERED UNAVALABLE CONE DEGNADATION ON MELT COULD OCCUR IN A ABOUT TEN CONTAINMENT FAILURE
1055 OF MONITORS, ALARINS, ETC.	THE STATE OF THE STATE OF THE STATE OF THE STATE OF STATE OF STATE OF THE STATE OF	MOST OR ALL ALARMS	LANGUNCIA ALARMA (ANNUNCIATORS) LOST AND PLANT TRANSIENT INITIATED ON IN PROGRESS	EVENTS IS OF PRINCE OF STREETH OF
FUEL MANOLING ACCIDENT		ALEASE OF ALCIDENT WITH CONTAINENT OR FUEL HANDLING BUILDING	CONTAINMENT OR FUEL HANDLING	
HAZANDS TO PLANT OF BRATIONS	PROBECTED THAT AFFECT PLANT OFFICE THAT	ON PROJECTED POTENTAL'S APPECTING BAPETY SYSTEMS	DE VERB HAZANDE BEING E KPERIENCEGO- ON FROJECTED TRAT COMPROMEE THE PUNCTIONS OF BAPETY SYSTEMS.	
NATURAL EVENTS	DR ATTANTED SABOTAGE DR ATTANTED SABOTAGE NATURAL PIGNOMENA SE INC EXTERNED ON PROJECTED SEYONO USUAL EVELS	BYERIENCED OR PROJECTO	OF PLANT LOSS OF PHY BICAL CONTROL  BY ART N. LURAL PHENOMERA BE INC  BY RE RILL COLOR OF THAT  COMP PORISE THE PUNCTIONS OF  COLOR PLANT COMP  COLOR PLANT COLOR PLANT COMP  COLOR PLANT COLOR PLANT COMP  COLOR PLANT COLOR PLANT COMP  COLOR PLANT COMP  COLOR PLANT COMP  COLOR PLANT	1.056 OF FRYBICAL CONTROL OF THE PAGILITY ANY MAJOR INTERNAL OR STIF BRANE EVERT BE OF PIETS, SARTHGLIARES BASEST ANT LALL Y BE YORD DEBIGED.
	Other P. A. TONDOITONE STREET THAT WAS PART OF THE STREET	MARANTING PACANY ONARY ACTIVATION OF THE TEC	OFFICE TO ANY COMMISSIONS ASSETTING THE COMMISSION OF CASE, MACHITORNO THE AND OF CASE, MACHITORNO THE AND OF SELLAND OF	OTHER PLANT CONDITIONS AND EVENT OF THE PROPERTY OF THE PROPER

EP/0/A/5000/05 Enclosure 4.2 Page 1 of 5

## 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/1/A/5000/02, EP/1/A/5000/03, EP/1/A/5000/04, AP/1/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, Environmenta 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
		NOTE: These calculations avail- able from counting faci- lity on request.	
b.	Failed fuel monitor indicates increase greater than 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 tempera- ture and/or pressure or abnormal fuel temperature outside of Technical Speci- fication 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

EP/0/A/5000/05 Enclosure 4.2 Page 2 of 5

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/1/A/5000/04, AP/1/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, AP/1/A/5500/11, EP/1/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
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/1/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/1/A/5500/21, AP/1/A/5500/20, Tech Specs 3/4.5, 3/4.7.10, 3/4.7.11

EP/0/A/5000/05 Enclosure 4.2 Page 3 of 5

Initiati	ng 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 Winds >73 mph/from National Weather Service information.	AP/0/A/5500/29, AP/0/A/5500/30

EP/0/A/5000/05 Enclosure 4.2 Page 4 of 5

Emergency Procedure/Document Emergency Action Level (EAL) Initiating Conditions 4.2.14 Other hazards being experienced or projected. As observed Aircraft crash onsite or unusual aircraft activity over facility. Train derailment on As observed site. Near site or onsite As observed explosion. AP/0/A/5500/31 Near site or onsite As observed texic or flammable gas release. e. Turbine rotating com-Turbine trip and observation of AP/0/A/5500/23, AP/0/A/5500/32, a turbine malfunction or failure. AP/0/A/5500/02 ponent failure causing rapid plant sintdown (Loss of Condenser Heat Sink). Other plant conditions As determined by the Shift Supervisor/ As directed by plant conditions. 4.2.15 exist that in the judge-Emergency Coordinator. ment of the Shift Supervisor, the Operations Duty Engineer, the Superintendent of Operations, or the Station Manager warrant increased awareness on the part of State and/or local offsite authorities or require plant shutdown under Tech Specs requirements or involve other than normal controlled shutdown (e.g., cooldown rate exceeding Tech Specs limits, pipe cracking found

during operation).

EP/0/A/5000/05 Enclosure 4.2 Page 5 of 5

Initiati	ng Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4.2.16	Transportation of contami- nated injured individual from site to offsite hospital.	As observed.	AP/0/A/5500/27
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

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# NOTIFICATION CHART NOTIFICATION OF UNUSUAL EVENT

INITIATING COMBITIONS (from ENCLOSURE 4.2)

Shift Supervisor	×	*	×	×	×	*	*	*	×	*	×	×	*	*	-	-	
OPS. Duty Engineer	×	×	*	×	*	*	*	*	*	*	*	×	×	×	×	*	*
Station Manager	*	×	×	×	*	*	*	*	×	*	*	×	**	×	×	*	*
Supt. of Operations	*	×	*	×	×	×	*	*	*	*	*	*	*	*	*	*	*
Sunt. of Tech. Services	*	*	×	×	×	>4	*	*	*	×	×	×	×	×	×	*	×
Project/Licen. Engineer	*	×	×	×	×	×	×	*	×	*	-	*	*	-	×	-	*
Steam Production Buty Man	×	×	×	×	*	*	*	*	*	*	*	*	*	×	*	*	*
Corporate Comminications	*	*	×	×	×	*	×	*	×	*	×	*	*	×	×	*	×
H.C. State Warning Point	*	×	×	*	×	*	×	*	×	*	×	×	×	×	×	*	14
Mecklerburg Warning Pt.	×	×	×	×	×	*	*	34	×	*	-	*	*	*	*	*	-
Catauba Co. Warning Pt.	×	×	×	*	*	*	*	×	×	*	*	*	*	*	×	*	*
Lincoln Co. Marning Pt.	×	*	*	*	*	*	*	-	*	*	×	×	×	*	*	*	×
Gaston Co. Warning Pt.	mi	×	×	*	*	*	*	*	*	×	×	×	×	*	*	*	×
Iredell Co. Warning Pt.	×	×	×	×	*	*	*	*	*	×	*	×	×	*	*	*	*
Cabarrus Co. Warning Pt.	×	×	*	×	*	*	*	*	*	*	×	×	×	*	*	*	×
NRC VIA ENS	×	×	×	×	*	*	×	*	*	*	*	*	*	*	*	×	×
NRC (Station Rep.)	×	×	×	×	*	*	*	*	*	*	×	×	*	*	*	*	×
Construction Proj. Magr.	×	*	×	×	×	*	×	*	*	*	*	×	*	*	×	*	*
Station Health Physicist	NO	*	×	NO	*	*	NO	*	9		*	NO	×	×	*	*	20
Station Safety Supervisor	ON	NO	Œ	98	NO	NO	ON	NO.	*	*	110	NO	×	×	980	×	æ
Supt. of Maintenance	OH	ON	NO	ON	NO	×	*	98	*	*	×	940	*	×	×	NO	. 01
	-	1000	000	1000	ON	MA	MA	VN	W	*	ON	*	ON	ON	08	980	ON

A - Micnever radiological hazards may be involved

X - To be notified

#### TELEPHONE LISTING

4.4.1	Operations Duty Engineer (PA Syst P&T Pager -	em)		
4.4.2	Station Manager			
		tem Speed		
	Home - System	m Speed -		
4.4.3	Superintendent of Operations -			
	Home Sys	tem Speed -		
4.4.4	Superintendent of Technical Service	ces -		
		em Speed -		
4.4.5	Projects & Licensing Engineer -			
	Home - Syst	tem Speed .		
4.4.6	Steam Production Duty Engineer - :	,	System Spe	
	beam froduction buty bugineer -		System Spe	
4.4.7	Duka Barra Carranta Carrata			
4.4./	Duke Power Corporate Communication (24 hour Answering Servi Ira Kaplan or Mary Boyd)	ice, ask fo	or Mary Car	System Speed
4.4.8	NC State Warning Point, Raleigh -		- Sys	tem Speed -
4.4.9	Mecklenburg County Warning Point -	- Primary:	Ring Down	Phone
		Back-up:	The first page of the first page.	- System Speed
		Back-up:		Radio, Code:
4.4.10	Lincoln County Warning Point -	Primary:	Ring Down	Phone
		Back-up:		- System Speed -
		Back-up:	Emergency	Radio, Code:
4.4.11	Catawba County Warning Point -	Primary:	Ring Down	Phone
		Back-up:		- System Speed
		Back-up:		Radio, Code:
4.4.12	Iredell County Warning Point -	Primary.	Ring Down	Phone
	, , , , , , , , , , , , , , , , , , , ,	Back-up:	MILIE DOWL	- System Speed
		Back-up:	Emergency	Radio, Code:
4.4.13	Gaston County Warning Point -	Defmanus	D4 D	Dh
	dascon douncy warning rounc -	Primary: Back-up:	Ring Down	
		Back-up:	Emergency	- System Speed Radio, Code:
4.4.14	Cabarras Causas W			
4.4.14	Cabarrus County Warning Point -	Primary:	Ring Down	
		Back-up:		- System Speed
		Back-up:	Emergency	Radio, Code:

#### NOTE

Radio Code will activate all county radio units.

4.4.15	N.R.C. Operation Center, Emergency Notification System (ENS phone)
4.4.16	N.R.C. Senior Station Representative Office System Speed -
	Wife work - System Speed P&T Pager
4.4.17	Construction Project Manager: Construction . Ext.
	Home - System Speed
	- System Speed
4.4.18	Station Health Physicist
	Home system Speed .
	P&T Pager
4.4.19	Station Safety Supervisor
	Home System Speed ·
4.4.20	Superintendent of Maintenance
	Home - System Speed -
4.4.21	Superintendent of Administration -
	Home System Speed -
4.4.22	Radiation Protection Section Department of Human Resources

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### MCGUIRE NUCLEAR STATION NOTIFICATION OF EMERGENCY CONDITIONS

4.5.1	Include as a minimum, the following information to the N	orth Carolina
4.5.1	State Warning Point, and to the six County Warning Point Catawba, 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  notification of a reportable incident.  B. Complete Part I and II of this format to  minimal followup information.  PART I: Initial Emergency Message Information	s (Mecklenburg,
	"This is,,	
	(Name) (Title)	Mecklenburg
	at McGuire Nuclear Station. I am notifying you of an	Gaston
	incident at McGuire, Unit # Please acknowledge	Iredel1
	when you are ready to copy emergency information."	Lincoln
	1. This is McGuire Nuclear Station.	Cabarrus
	2. My name is	Catawba
	3. This message (Number) a. Reports a real emergency. b. Is an exercise message.  4. My telephone number 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:	
	[2] 이 1일 [2] [2] [2] [2] [2] [2] [2] [3] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4	A.M./P.M.)
	(0)	

11	he Emergency Condition (Select one of the below options):
_	a. Does not involve the release of radioactive materials
	from the plant.
-	b. Involves the POTENTIAL for a release of but NO release is occurring.
_	c. Involves a release of radioactive material.
	e recommend the following protective action: (select one of the elow options)
	a. No protective action is recommended at this time.
-	b. People living in zones remai
_	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:
T	here will be:
_	a. A followup message
_	b. No further communications
I	repeat, this message:
_	a. Reports an actual emergency.
_	b. Is an exercise message.
R	elay this information to the persons indicated in your alert pro-

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	The type of actual or project	ed release is:
	a. Airborne	
	b. Waterborne	
	c. Surface spill	
	d. Other	
	The source and description of	the release is:
		begin ata.m./p.m.; time since
	reactor trip is	
	b. The estimated durat	ion of the release is hours.
	Dose projection base data:	
	Radiological release:	curies, orcuries/sec.
	Wind speed:	mph
	Wind direction: From	
	Stability class:	(A,B,C,D,E,F, or G)
	Release height:	Ft.
**	Dose conversion factor:	R/hr/Ci/M3 (whole body)
		R/hr/Ci/M3 (Child Thyroid)
	Precipitation	
	Temperature at the site:	• y
5.	Dose projections:	
		mmitment*

Distance	Whole Body Rem/hour	(Child Thyroid) Rem/hour of inhalation
Site boundary		
2 miles		
5 miles		
10 miles		

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Child Thyroid

#### \*Projected Integrated Dose In Rem\*

Whole Body

Distance

Site Boundary

5 miles		
10 miles		
Field measuremen	t of dose rate or co	ontamination (if available):
Emergency action	s underway at the fa	cility include:
Onsite support n	eeded from offsite o	organizations:
Plant status:		
Plant status: a. Reactor is:	not tripped/trippe	ed.
a. Reactor is:		ed atdown/cold shutdown/cooling down
<ul><li>a. Reactor is:</li><li>b. Plant is at</li></ul>		tdown/cold shutdown/cooling down
<ul><li>a. Reactor is:</li><li>b. Plant is at</li></ul>	:% power/hot shu .s: stable/improving	tdown/cold shutdown/cooling down
<ul><li>a. Reactor is:</li><li>b. Plant is at</li><li>c. Prognosis i</li><li>I repeat, this m</li></ul>	:% power/hot shu .s: stable/improving	atdown/cold shutdown/cooling down/coling down/cold shutdown/cooling down/colling down/cooling do
a. Reactor is: b. Plant is at c. Prognosis i I repeat, this ma. Report	: % power/hot shu is: stable/improving message:	atdown/cold shutdown/cooling down/coling down/cold shutdown/cooling down/colling down/cooling do

\*\*\*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)		and the second	Communicator
	(Name)		(Title)
			Catawba
	(Dace)	(Time)	(Warning Point)
(5)			Communicator
	(Name)		(Title)
		Tarrest St.	Lincoln
	(Date)	(Time)	(Warning Point)
(ú) _			Communicator (Title)
	(Name)		(Title)
			Cabarrus
	(Date)	(Time)	(Warning Point)
(7)			Communicator
	(Name)		(Title)
			North Carolina
	(Date)	(Time)	(Warning Point)

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# NOTIFICATION OF EMERGENCY CONDITIONS (Steam Production Duty Engineer/Corporate Communications Department)

	(Name)	(Title)
Manageme	nt Plan to Figure	This is/is not a drill. Open your Crisis E-4 for the following message. Do you have
that fig		
My name		. I am the
The init	ification of Unus	McGuire Nuclear Station and am notifying you had Event condition associated with Unit no
Correcti	ve measures being	taken at present are as follows:
		any injuries to plant personnel.
		any injuries to plant personnel.  Incident is as follows:
Other in	formation on the	Incident is as follows:
Other in	formation on the	Incident is as follows:
Other in	formation on the	(telephone number) for follow-u
I can be informat Do you h	reached ation. have any questions roduction/Corporat	(telephone number) for follow-u
I can be informate Do you h	reached at ion. ave any questions coduction/Corporat	(telephone number) for follow-up  Communication person notified was: