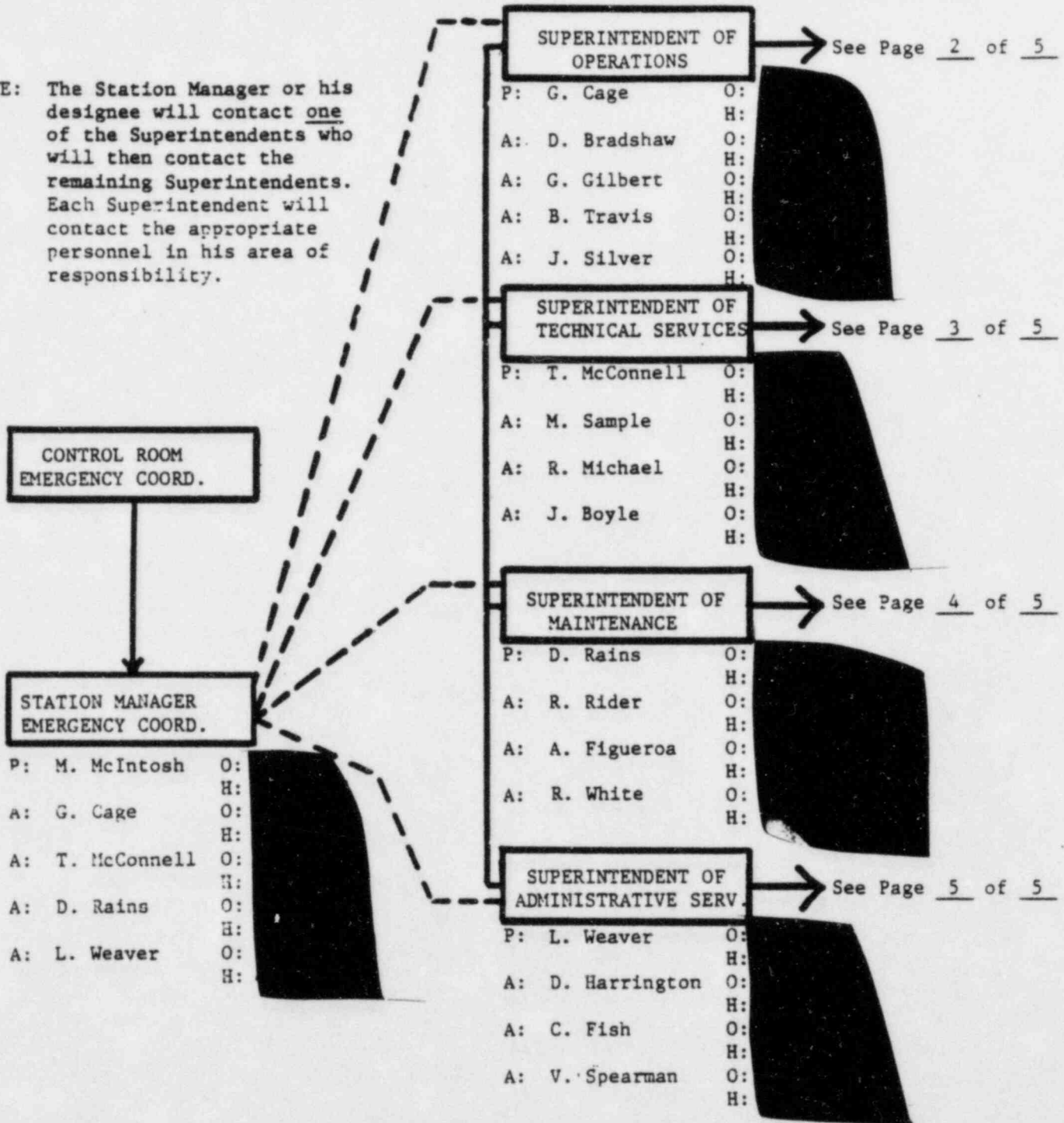


ENCLOSURE 2
 PAGE 1 OF 5

TECHNICAL SUPPORT CENTER

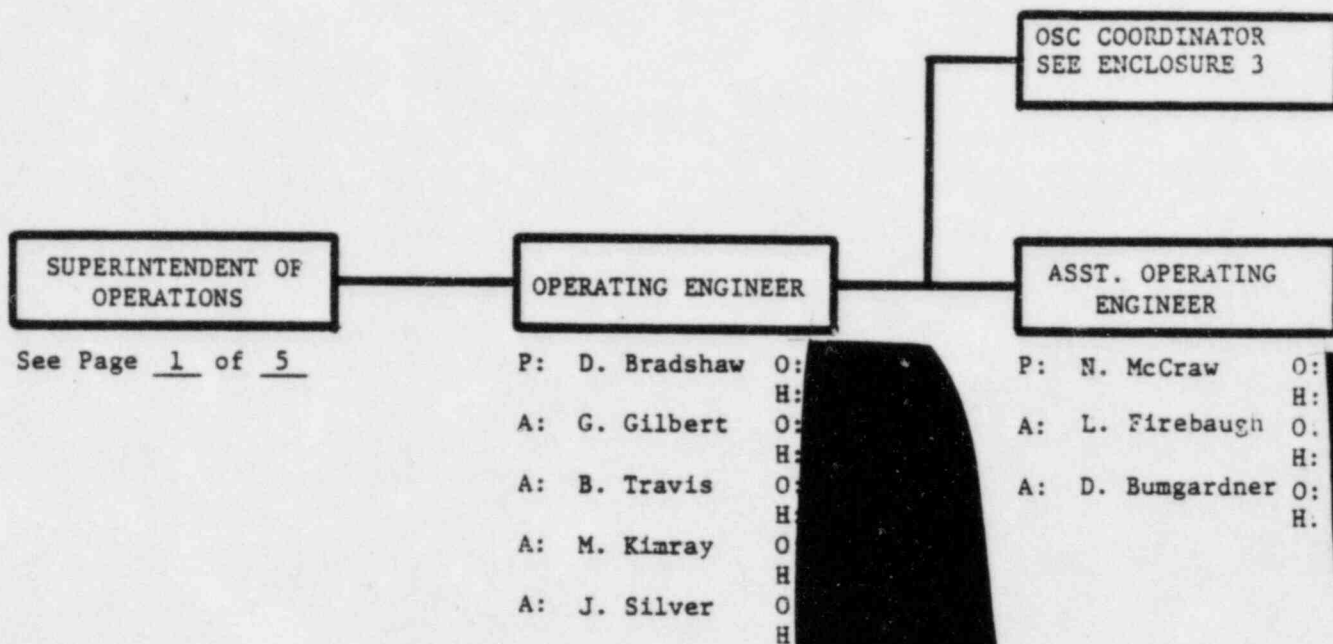
NOTE: The Station Manager or his designee will contact one of the Superintendents who will then contact the remaining Superintendents. Each Superintendent will contact the appropriate personnel in his area of responsibility.



O: Office
 H: Home

TECHNICAL SUPPORT CENTER

OPERATIONS



O: Office
H: Home

TECHNICAL SUPPORT CENTER

TECHNICAL SERVICES

SPECIAL ASSISTANT

P: M. Clover O:
H:
A: R. Ruth O:
H:
A: M. Pacetti O:
H:
A: P. Deyo O:
H:

PROJECTS & LICENSING

P: M. Sample O:
H:
A: E. Estep O:
H:
A: D. Mendezoff O:
H:

OFFSITE COMMUNICATIONS

P: T. Deese O:
H:
A: S. McInnis O:
H:
A: M. Clayton O:
H:
A: M. Nazar O:
H:

NRC RESIDENT NOTIFICATION ONLY

B. Orders O:
H:
P&T Pager
Onsite Pager

HEALTH PHYSICS

P: T. Keane O:
H:
A: J. Foster O:
H:
A: G. Terrell O:
H:
A: P. Huntley O:
H:

CHEMISTRY

P: R. Michael C:
H:
A: T. Wall O:
H:
A: L. Kimray O:
H:

REACTOR ENGINEER

P: D. Marquis O:
H:
A: M. Kitlan O:
H:
A: S. Brown O:
H:

PERFORMANCE

P: J. Boyle O:
H:
A: G. Calbreath C:
H:
A: D. Marquis O:
H:

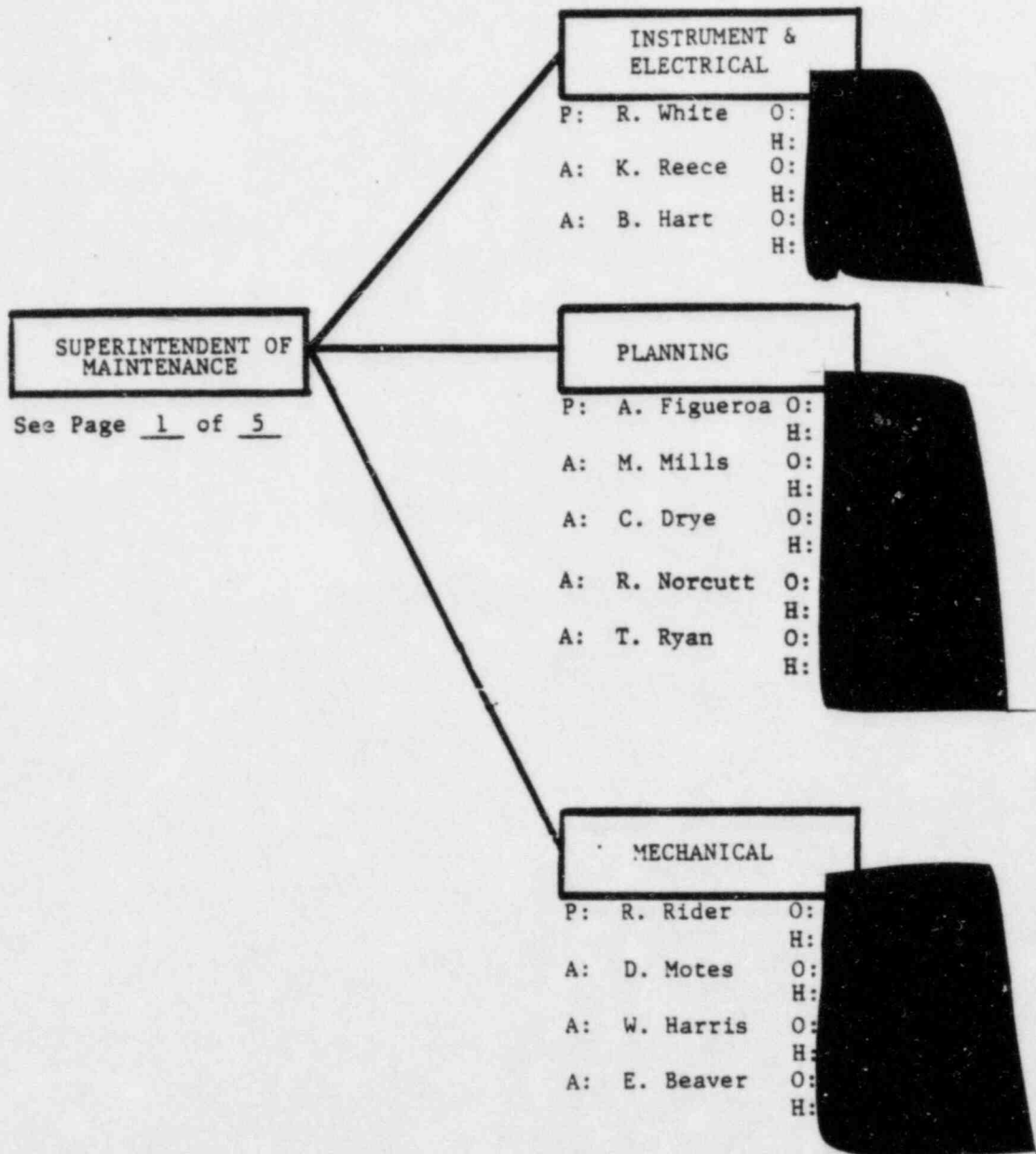
PERFORMANCE TECHNICIAN

P: E. Gragg O:
H:
A: S. Brewer O:
H:
A: R. Hemphill O:
H:
A: J. Arends O:
H:

SUPERINTENDENT OF TECHNICAL SERVICES

TECHNICAL SUPPORT CENTER

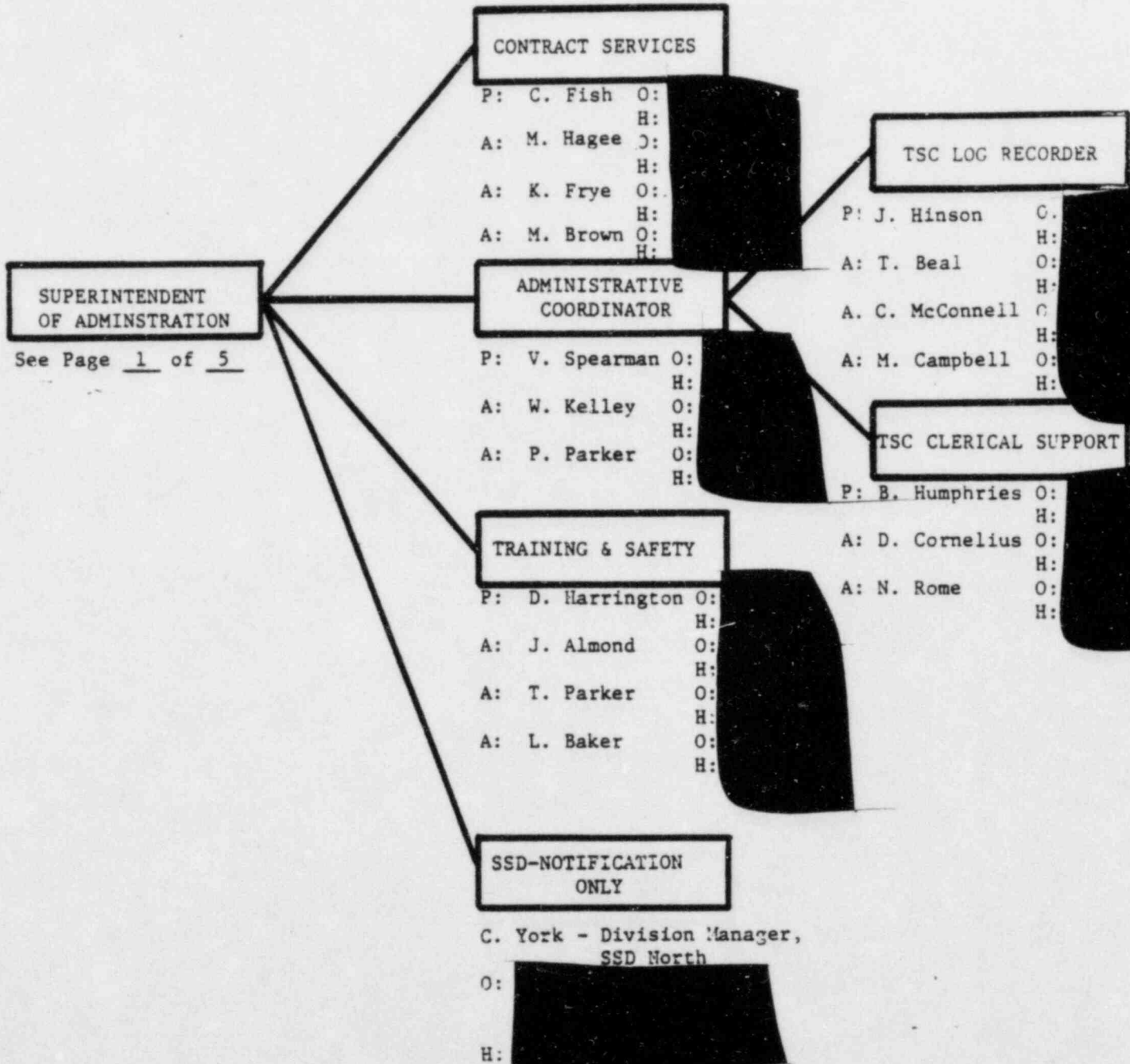
MAINTENANCE



O: Office
H: Home

TECHNICAL SUPPORT CENTER

ADMINISTRATION



O: Office
H: Home

DUKE POWER COMPANY
PROCEDURE PREPARATION
PROCESS RECORD

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

(2) STATION: McGuire Nuclear Station

(3) PROCEDURE TITLE: Notification of Unusual Event

(4) PREPARED BY: M. S. Glover

DATE: 3/1/84

(5) REVIEWED BY: CD Gilbert

DATE: 3-2-84

Cross-Disciplinary Review By: _____

N/R: 3/2/84

(6) TEMPORARY APPROVAL (IF NECESSARY):

By: _____ (SRO)

Date: _____

By: _____

Date: _____

(7) APPROVED BY: George W. Coyle

Date: 3/2/84

(8) MISCELLANEOUS:

Reviewed/Approved By: _____

Date: _____

Reviewed/Approved By: _____

Date: _____

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 Subsequent Actions

Initial/N/A

- ____/____ 3.1 The Shift Supervisor/Emergency Coordinator 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 Guide Flowchart and Enclosure 4.2, List of Initiating Conditions, Emergency Action Levels, and Associated Emergency Procedures/Document.

NOTE

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.

- / 3.2 The Emergency Coordinator shall assure that all actions required by the initiating Emergency Procedure(s) 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 assembly/accountability and/or evacuation of all non-essential onsite personnel appears necessary, refer to Station Directive 3.8.1.

- / 3.3 The Emergency Coordinator shall assure prompt (within about 15 minutes of declaring the emergency) notification of the North Carolina State and Local County Warning Points indicated on Enclosure 4.3. He shall also assure notification of all other personnel listed in Enclosure 4.3. (Notifications to other appropriate personnel not listed in this procedure are provided by Enclosure 4.8, Notification Tree).

NOTE 1

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

NOTE 2

See Enclosure 4.5, Warning Message: Nuclear Facility to State/Local Government, for information to be provided to State/County Warning Points.

NOTE 3

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

/ 3.4 In the event a release or potential release of radioactive materials is a threat to plant personnel or members of the general public the Emergency Coordinator shall utilize the Operator Aid Computer (OAC) "Nuclear-23" program to assess the offsite consequences. In the event the (OAC) is not operational the Emergency Coordinator shall request Health Physics personnel to evaluate the consequences utilizing the appropriate Health Physics Procedure, HP/0/B/1009/05, HP/0/B/1009/06, HP/0/B/1009/08, HP/0/B/1009/09, or HP/0/B/1009/10.

 / 3.5 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 Operating Centers, if established) or the State Radiological Protection Section, Department of Human Resources (see Enclosure 4.7, Protective Action Recommendation Flow Chart) as directed by the state, in accordance with the North Carolina 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).

- 3.5.1 Whole body <1, thyroid <5, NO protective action is required. Monitor environmental radiation levels to verify.
- 3.5.2 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.

NOTE

If this is the projected dose evaluate Site Area Emergency and General Emergency Initiating Conditions and Emergency Action Levels.

3.5.3 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

If this is the projected dose, see General Emergency Procedure.

NOTE

See Enclosure 4.4, Telephone Listing for notification.

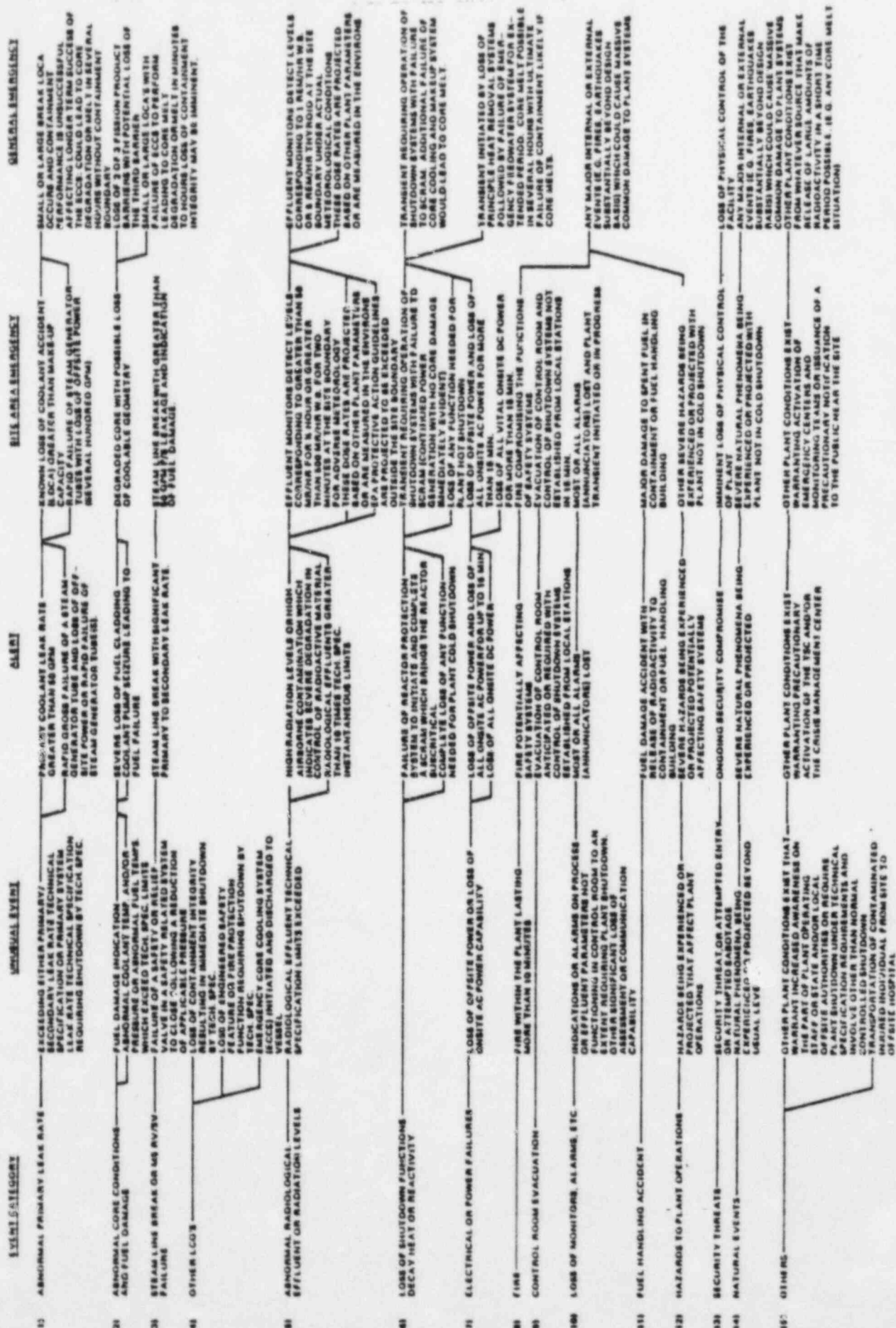
- / 3.6 The Emergency Coordinator shall augment on shift resources to assess and respond to the emergency situation as needed to ensure the protection of persons and property.

- / 3.7 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.

- / 3.8 Notify the Projects and Licensing Engineer or his designee who will be responsible for closing out the Emergency with verbal summary to those personnel and county and state authorities notified in Step 3.3. The Projects and Licensing Engineer will provide a written summary to county and state authorities 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 Warning Message: Nuclear Facility to State/Local Government
- 4.6 Emergency Plan Message Format
- 4.7 Protective Action Recommendation Flow Chart.
- 4.8 Notification Tree



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

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

Initiating 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, all S/G's >500 GPD from any S/G >1GPM Unidentified Leakage >10GPM Identified Primary Leakage Verified by EMF readings, level control, make-up rate, and or chemical/radiological analysis exceeding Tech. Spec. 3.4.6.2 limiting condition for operation.	EP/1/A/5000/02, EP/2/A/5000/02, EP/1/A/5000/04, EP/2/A/5000/04, AP/1/A/5500/10, AP/2/A/5500/10
4.2.6 Failure of a safety or relief valve in a safety related system to close, following reduction of applicable pressure. (Primary System (NC) or Main Steam (SM).	Valid accoustical monitor indication of valve failure.	EP/1/A/5000/02, EP/2/A/5000/02, AP/1/A/5500/11, AP/2/A/5500/11, EP/1/A/5000/03, EP/2/A/5000/03
4.2.7 Loss of offsite power or loss of onsite AC power capability.	Undervoltage alarms on 7KV buses or blackout load sequencers actuated.	AP/1/A/5500/07, AP/2/A/5500/07
4.2.8 Loss of containment integrity requiring shutdown by Tech Specs (3/4.6.1).	Any automatic containment isolation valve found to be open and inoperable and unisolable or both air lock doors on a lock inoperable, or penetration(s) fail leak test per Tech Specs when containment integrity required.	AP/0/A/5500/24
4.2.9 Loss of engineered safety feature or fire protection system function requiring shutdown by Tech Specs (e.g., malfunction, personnel error, or procedural inadequacy).	ESF actuation system found inoperable or Fire Suppression Water System found inoperable per Tech Specs.	AP/1/A/5500/19, AP/2/A/5500/19, AP/1/A/5500/21, AP/2/A/5500/21, AP/1/A/5500/20, AP/2/A/5500/20, Tech Specs 3/4.5, 3/4.7.10, 3/4.7.11

Initiating 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 instrumentation. ($<.08gH$, $<.053gV$), Annunciator Alarm, (AD-13) b. 50-year flood or low water, hurricane surge, seiche (lake tidal wave) As observed c. Any tornado on site As observed d. Any hurricane Winds >73 mph/from National Weather Service information.	RP/O/A/5700/06, RP/O/A/5700/07
a. Any earthquake felt in plant or detected on station seismic instrumentation.		
b. 50-year flood or low water, hurricane surge, seiche (lake tidal wave)		
c. Any tornado on site		
d. Any hurricane		

Initiating Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4.2.14 Other hazards being experienced or projected.		
a. Aircraft crash onsite or unusual aircraft activity over facility.	As observed	
b. Train derailment on site.	As observed	
c. Near site or onsite explosion.	As observed	
d. Near site or onsite toxic or flammable gas release.	As observed	RP/0/A/5700/08
e. Turbine rotating component failure causing rapid plant shutdown (Loss of Condenser Heat Sink).	Turbine trip and observation of a turbine malfunction or failure.	AP/1/A/5500/23, AP/2/A/5500/23, AP/1/A/5500/02, AP/2/A/5500/02, RP/0/A/5700/09
4.2.15 Other plant conditions exist that in the judgment 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 and involve other than normal controlled shutdown (e.g. cool-down rate exceeding Tech Specs limits, pipe cracking found during operation).	As determined by the Shift Supervisor/ Emergency Coordinator.	As directed by plant conditions.

RP/0/A/5700/01

ENCLOSURE 4.2

PAGE 5 OF 5

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

NOTIFICATION CHART
NOTIFICATION OF UNUSUAL EVENT

Notify the following personnel for all Initiating Conditions listed in
Enclosure 4.2. (See Enclosure 4.4 for Telephone Listing)

NOTIFY	NOTIFICATION COMPLETE-INITIAL
Shift Supervisor	
Operations Duty Engineer	
Station Manager	
Nuclear Production Duty Engineer (Enclosure 4.6)	
North Carolina State Warning Point	
Mecklenburg County Warning Point	
Lincoln County Warning Point	
Catawba County Warning Point (Enclosure 4.5)	
Iredell County Warning Point	
Gaston County Warning Point	
Cabarrus County Warning Point	
N.R.C. via ENS (Red Phone) (See RP/0/A/5700/10)	

TELEPHONE LISTING

- 4.4.1 Operations Duty Engineer (PA System if onsite)
P&T Pager [REDACTED] home telephone if offsite.
- 4.4.2 Station Manager - M. D. McIntosh
Office [REDACTED]
Home [REDACTED] - System Speed - [REDACTED]
- 1st. Alternate - G. Cage
Office [REDACTED]
Home [REDACTED] - System Speed - [REDACTED]
- 2nd. Alternate - T. L. McConnell
Office [REDACTED]
Home [REDACTED] - System Speed - [REDACTED]
- 3rd. Alternate - D. J. Rains
Office [REDACTED]
Home [REDACTED] - System Speed - [REDACTED]
- 4th Alternate - L. E. Weaver
Office [REDACTED]
Home [REDACTED] - System Speed - [REDACTED]
- 4.4.3 Nuclear Production Duty Engineer [REDACTED] System Speed -
P&T Pager [REDACTED]
- 4.4.4 NC State Warning Point, Raleigh [REDACTED] System Speed -
- 4.4.5 Mecklenburg County Warning Point - Primary: Ring Down Phone
Back-up: [REDACTED] System Speed
Back-up: Emergency Radio, Code: [REDACTED]
- 4.4.6 Lincoln County Warning Point - Primary: Ring Down Phone
Back-up: [REDACTED] System Speed
Back-up: Emergency Radio, Code: [REDACTED]
- 4.4.7 Catawba County Warning Point - Primary: Ring Down Phone
Back-up: [REDACTED] System Speed
Back-up: Emergency Radio, Code: [REDACTED]
- 4.4.8 Iredell County Warning Point - Primary: Ring Down Phone
Back-up: [REDACTED] System Speed
Back-up: Emergency Radio, Code: [REDACTED]
- 4.4.9 Gaston County Warning Point - Primary: Ring Down Phone
Back-up: [REDACTED] System Speed
Back-up: Emergency Radio, Code: [REDACTED]

4.4.10 Cabarrus County Warning Point - Primary: Ring Down Phone
Back-up: [REDACTED] System Speed
Back-up: Emergency Radio, Code: [REDACTED]

NOTE

1. Radio Code [REDACTED] will activate all county radio units.
2. P&T Pager, Central Division (Charlotte Area) Dial [REDACTED]

4.4.11 N.R.C. Operation Center, Emergency Notification System (ENS phone)

4.4.12 Radiation Protection Section Department of Human Resources
[REDACTED] System Speed [REDACTED]

4.4.13 Projects and Licensing Engineer - W. M. Sample
Office [REDACTED]
Home [REDACTED] System Speed [REDACTED]

WARNING MESSAGE: NUCLEAR FACILITY TO STATE/LOCAL GOVERNMENT

Instructions:

RP/0/A/5700/01

ENCLOSURE 4.5

PAGE 1 OF 4

A. For Sender:

1. Complete Part I for the Initial Warning Message.
2. Complete Parts I & II for followup messages.

B. For Receiver:

1. Record the date, time and your name in the area below.
2. Authenticate this message by verifying the code word or by calling back to the facility. (See Part I .5)

Time: _____ Date: _____

Message Received By: _____

PART I

1. This is: McGuire Nuclear Station
(Insert name of facility)
2. My name is: _____
3. This message (number _____):
_____(a) Reports a real emergency.
_____(b) Is an exercise message.
4. My telephone number/extension is: _____
5. Message authentication: _____
(Verify code word or call back to the facility)
6. The class of the emergency is: _____(a) Notification of Unusual Event
_____(b) Alert
_____(c) Site Emergency
_____(d) General Emergency
7. This classification of emergency was declared at: _____ (a.m./p.m.) on _____ (date).
8. The initiating event causing the emergency classification is: Unit affected: 1,2,Both

9. The emergency condition: _____(a) Does not involve the release of radioactive materials from the plant.
_____(b) Involves the potential for a release, but no release is occurring.
_____(c) Involves a release of radioactive material.

10. We recommend the following protective action:

- _____ (a) No protective action is recommended at this time.
- _____ (b) People living in zones _____ remain indoors with the doors and windows closed.
- _____ (c) People in zones _____ evacuate their homes and businesses.
- _____ (d) Pregnant women and children in zones _____ remain indoors with the doors and windows closed.
- _____ (e) Pregnant women and children in zones _____ evacuate to the nearest shelter/reception center.
- _____ (f) Other recommendations: _____

11. There will be:

- _____ (a) A followup message
- _____ (b) No further communications

12. I repeat, this message:

PART I APPROVED FOR RELEASE

- _____ (a) Reports an actual emergency
- _____ (b) Is an exercise message

Signature (Emergency Coordinator)

13. RELAY THIS INFORMATION TO THE PERSONS INDICATED ON YOUR ALERT PROCEDURE FOR AN INCIDENT AT A NUCLEAR FACILITY.

END OF INITIAL WARNING MESSAGE

*Record the Name, Date, Title and the Warning Point notified on Page 4 of 4.

PART II

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 at _____ a.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, or _____ curies/sec.

Windspeed: _____ 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		
5 miles		
10 miles		

Projected Integrated Dose In Rem

Distance	Whole Body	Child Thyroid
Site Boundary		
2 miles		
5 miles		
10 miles		

6. Field measurement of dose rate or contamination (if available): _____

7. Emergency actions underway at the facility include: _____

8. Onsite support needed from offsite organizations: _____

9. Plant status:

(a) Reactor is: not tripped/tripped

(b) Plant is at: _____ % power/hot shutdown/cold shutdown/cooling down

(c) Prognosis is: stable/improving/degrading/unknown.

10. I repeat, this message:

- _____ (a) Reports an actual emergency.
_____ (b) Is an exercise message.

PART I and II APPROVED FOR RELEASE

11. Do you have any questions?

Signature (Emergency Coordinator)

END OF FOLLOW-UP MESSAGE

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

Record the name title, date, time, and persons notified per alert procedure. (Receivers)

1.	_____	Communicator
	(name)	(title)
	_____	Mecklenburg County
	(date) (time)	(warning point)
2.	_____	Communicator
	(name)	(title)
	_____	Cabarrus County
	(date) (time)	(warning point)
3.	_____	Communicator
	(name)	(title)
	_____	Lincoln County
	(date) (time)	(warning point)
4.	_____	Communicator
	(name)	(title)
	_____	Gaston County
	(date) (time)	(warning point)
5.	_____	Communicator
	(name)	(title)
	_____	Iredell County
	(date) (time)	(warning point)
6.	_____	Communicator
	(name)	(title)
	_____	Catawba County
	(date) (time)	(warning point)
7.	_____	Communicator
	(name)	(title)
	_____	North Carolina
	(date) (time)	(warning point)
8.	_____	Communicator
	(name)	(title)
	_____	South Carolina
	(date) (time)	(warning point)

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

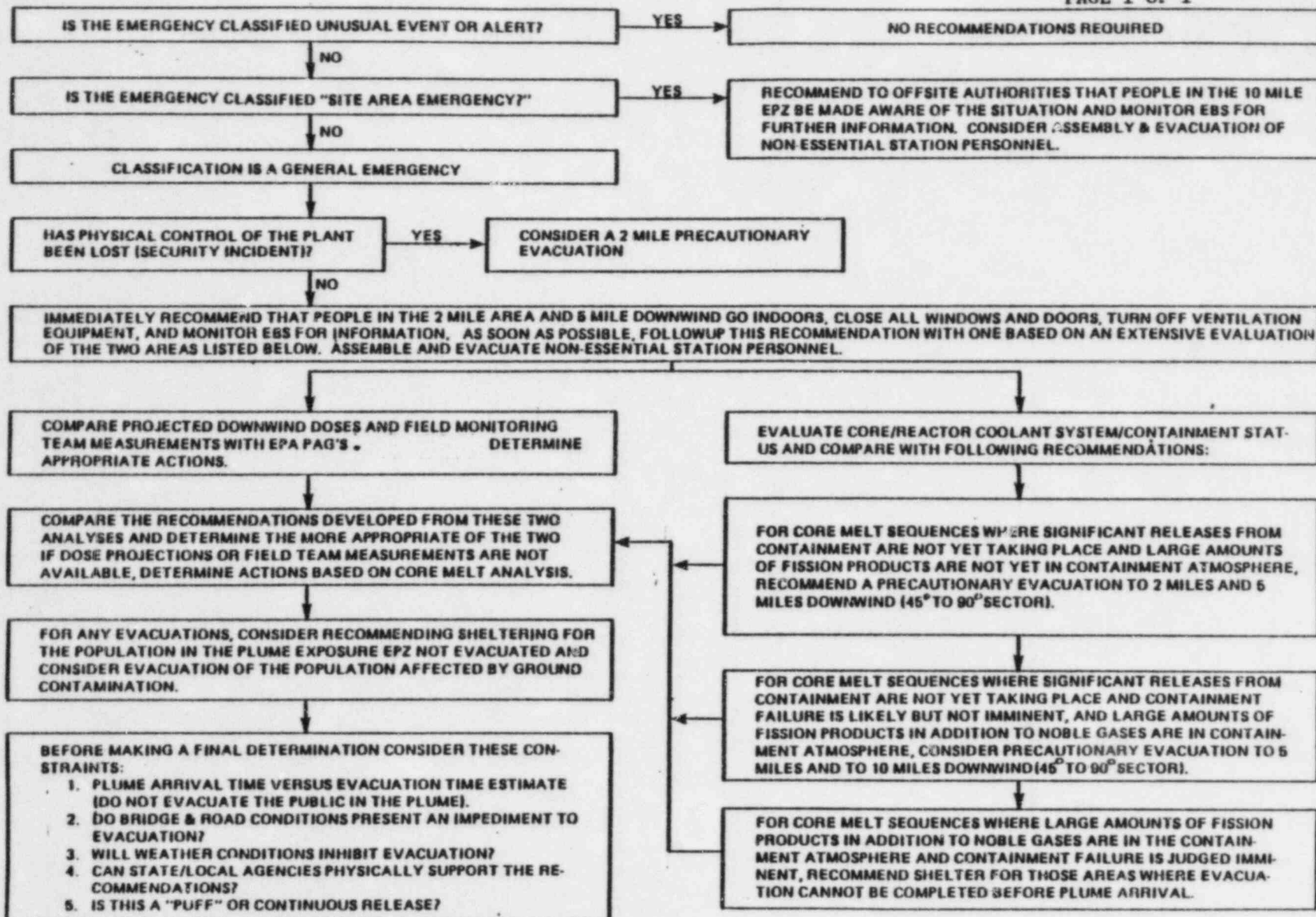
1. This is _____ at McGuire Nuclear Station.
(Name and Title)
2. This is/is not a Drill. An ☐ Unusual Event
☐ Alert
☐ Site Area Emergency
☐ General Emergency
was declared by the Emergency Coordinator at _____ on Unit Number _____.
(Time)
3. Initiating Condition: (Give as close to the emergency procedure description as possible together with station parameters used to determine emergency status)

4. Corrective Measures Being Taken: _____

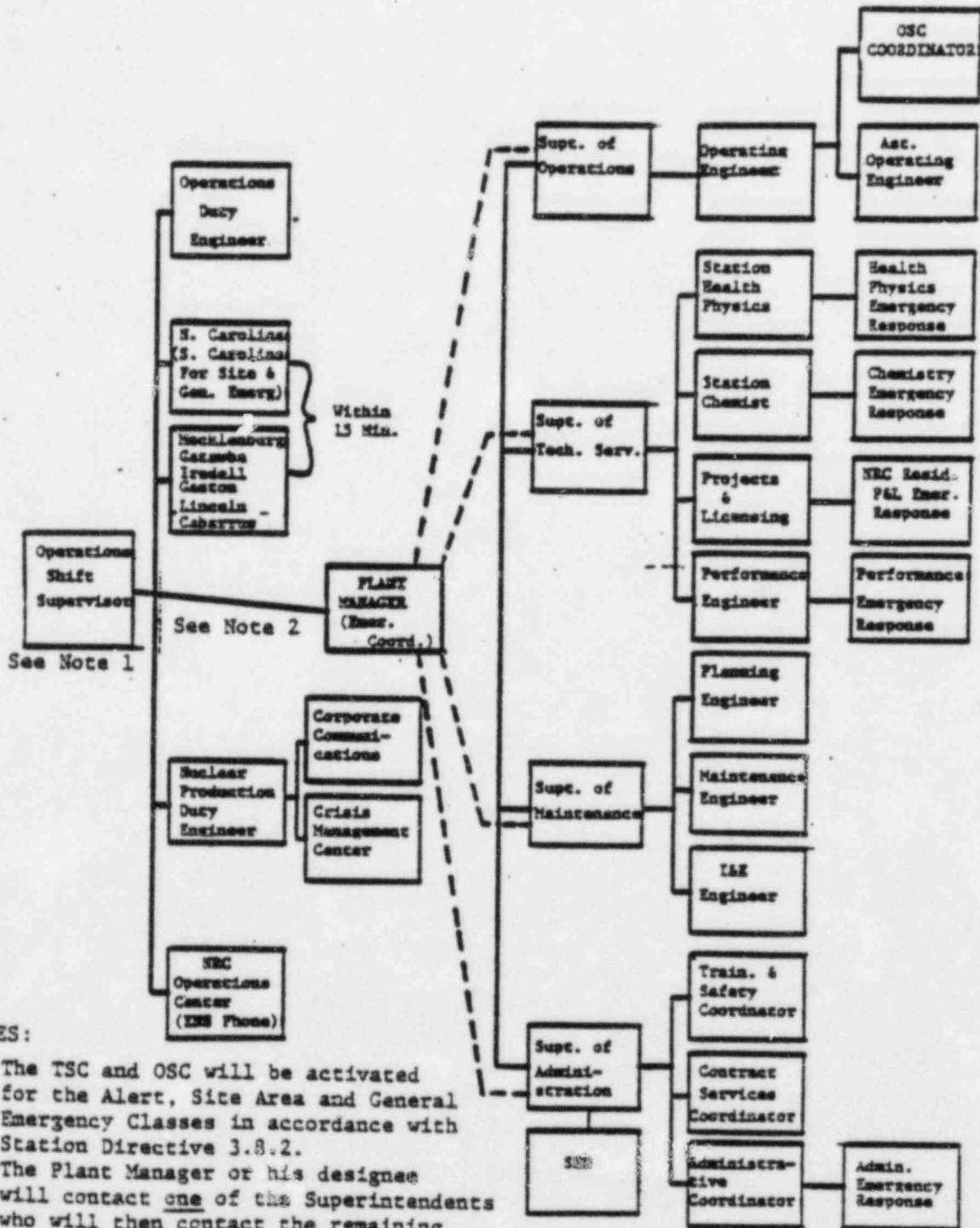
5. There Have/Have Not been any injuries to plant personnel.
6. Release of radioactivity: Is/Is not taking place
7. NRC ☐ Yes ☐ No, State ☐ Yes ☐ No, Counties ☐ Yes ☐ No,
have been notified.
8. The Crisis Management Team should not be activated. Corporate Communications and Company Management should be notified.
9. I can be reached at _____ for follow-up information.
(Telephone Number)
10. Additional Comments: _____

PROTECTIVE ACTION RECOMMENDATION FLOW CHART

RP/0/A/5700/01
ENCLOSURE 4.7
PAGE 1 OF 1



NOTIFICATION TREE
(All Plant Emergencies)



NOTES:

1. The TSC and OSC will be activated for the Alert, Site Area and General Emergency Classes in accordance with Station Directive 3.8.2.
2. The Plant Manager or his designee will contact one of the Superintendents who will then contact the remaining Superintendents. Each Superintendent will contact the appropriate personnel in his area of responsibility.

DUKE POWER COMPANY
PROCEDURE PREPARATION
PROCESS RECORD

(1) ID No: RP/0/A/5700/02
Change(s) 0 to
0 Incorporated

(2) STATION: McGuire Nuclear Station

(3) PROCEDURE TITLE: Alert

(4) PREPARED BY: M. S. Glover

DATE: 3/1/84

(5) REVIEWED BY: [Signature]

DATE: 3-2-84

Cross-Disciplinary Review By: _____

N/R: [Signature]

(6) TEMPORARY APPROVAL (IF NECESSARY):

By: _____ (SRO)

Date: _____

By: _____

Date: _____

(7) APPROVED BY: George W. Cox

Date: 3/2/84

(8) MISCELLANEOUS:

Reviewed/Approved By: _____

Date: _____

Reviewed/Approved By: _____

Date: _____

DUKE POWER COMPANY
McGUIRE NUCLEAR STATION
ALERT

1.0 Symptoms

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

2.0 Immediate Actions

2.1 Automatic

None

2.2 Manual

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

3.0 Subsequent Actions

Initial/N/A

- / 3.1 The Shift Supervisor/Emergency Coordinator 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 Guide Flowchart and Enclosure 4.2, List of Initiating Conditions, Emergency Action Levels, and Associated Emergency Procedure/Document.

NOTE

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.

- / 3.2 The Emergency Coordinator shall assure that all actions required by the initiating Emergency Procedure(s) 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 assembly/accountability and/or evacuation of all non-essential onsite personnel appears necessary, refer to Station Directive 3.8.1.

- / 3.3 The Emergency Coordinator shall assure prompt (within about 15 minutes of declaring the emergency) notification of the North Carolina State and Local County Warning Points indicated on Enclosure 4.3. He shall also assure notification of all other personnel listed in Enclosure 4.3. (Notifications to other appropriate personnel not listed in this procedure are provided by Enclosure 4.8).

NOTE 1

Activation of the Technical Support Center (TSC), and Operations Support Center (OSC) shall be in accordance with Station Directive 3.8.2. Recommend activation of the Crisis Management Center (CMC) 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, Warning Message: Nuclear Facility to State/Local Government, for information to be provided to State/County Warning Points.

3.4 The Emergency Coordinator in direct contact with the Technical Support Center and the Crisis Management Center when activated, will assess and respond to the emergency by:

3.4.1 Dispatching onsite monitoring teams with associated communications equipment.

3.4.2 Providing periodic plant status updates to offsite authorities (at least every 15 minutes).

3.4.3 Providing periodic meteorological assessments to offsite authorities and, if any releases are occurring, dose estimates for actual releases.

NOTE

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

/ 3.5 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 Operating Centers, if established) or the State Radiological Protection Section, Department of Human Resources (see Enclosure 4.7, Protective Action Recommendation Flow Chart) as directed by the state, in accordance with the North Carolina 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).

3.5.1 Whole body <1, thyroid <5, NO protective action is required. Monitor environmental radiation levels to verify.

3.5.2 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.

NOTE

If this is the projected dose evaluate Site Area Emergency and General Emergency Initiating Conditions and Emergency Action Levels.

3.5.3 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

If this is the projected dose, see General Emergency Procedure

NOTE

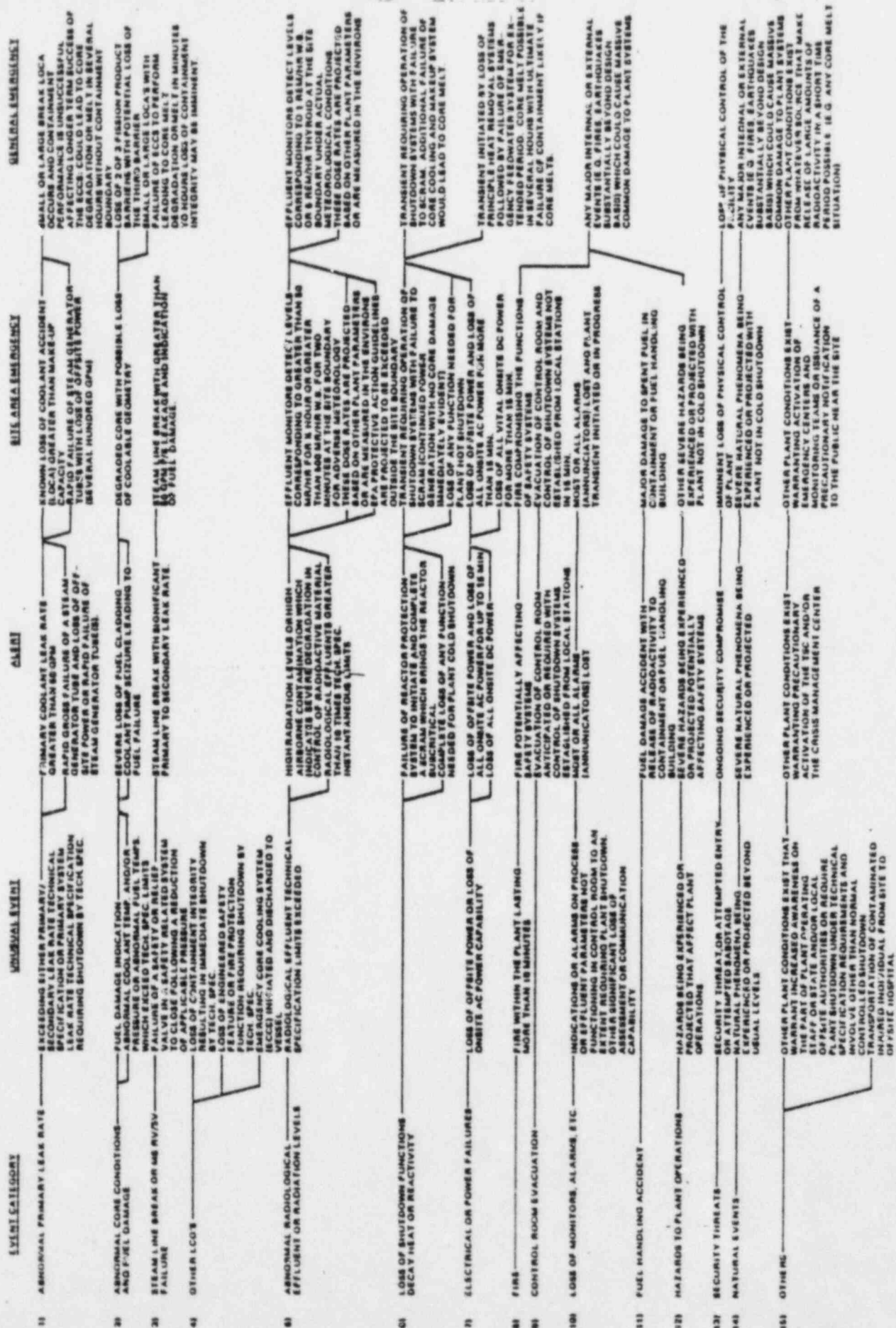
See Enclosure 4.4, Telephone Listing for notification.

- / 3.6 The Emergency Coordinator in coordination with the Recovery Manager at the Crisis Management Center, (if the CMC is activated) 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.
- / 3.7 The Station Manager or his designee will close out the Emergency with a verbal summary to those personnel and county and state authorities notified in Step 3.3, 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 Warning Message: Nuclear Facility to State/Local Government
- 4.6 Emergency Plan Message Format
- 4.7 Protective Action Recommendation Flow Chart
- 4.8 Notification Tree

EMERGENCY CLASSIFICATION GUIDE FLOWCHART



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

Initiating Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4.2.1 Severe loss of fuel cladding, Mechanical Clad Failure	a. Very high reactor coolant activity indicated by sample activity <u>or</u> failed fuel monitor (EMF-48) indicating an increase greater than 1% fuel failure within 30 minutes (increase of 70 μ Ci/ml in 30 minutes) or 5% to 25% total fuel failure indicated by 350 to 1,750 μ Ci/ml total I-131 coolant activity.	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 <u>and</u> , pressurizer low level alarm <u>and</u> , pressurizer low pressure safety injection signal <u>and</u> , undervoltage alarm on 7KV buses. EMF 32, 33, and 34 Alarm(s).	EP/1/A/5000/04, EP/2/A/5000/04, AP/1/A/5500/07, AP/2/A/5500/07
4.2.3 Rapid failure of Steam Generator tube(s).	Several hundred gpm primary to secondary leak rate indicated by: a. as above in 4.2.2 for pressurizer and EMF indicators. b. Steam generator level increasing in one or more generator(s) and falling in the others/due to reactor trip.	EP/1/A/5000/04, EP/2/A/5000/04

Initiating Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4.2.4 Steam line break with significant primary to secondary leak rate.	<p>Greater than 10gpm, rapidly decreasing reactor coolant Tavg, pressurizer pressure and level <u>and</u>,</p> <ol style="list-style-type: none"> 1. Steam line differential pressure safety injection signal and increased containment building pressure/ if break is in containment. 2. High steam flow and Lo Lo Tavg or Low steam pressure safety injection signal for rupture downstream of MSIV's. 	EP/1/A/5000/04, EP/2/A/5000/04, EP/1/A/5000/03, EP/2/A/5000/03
4.2.5 Primary coolant leak rate greater than 50 gpm.	Leak >50gpm as indicated by calculation or other indication. (i.e., sump levels)	EP/1/A/5000/02, EP/2/A/5000/02, AP/1/A/5500/10, AP/2/A/5500/10
4.2.6 High radiation levels or high airborne contamination which indicates a severe degradation in the control of radioactive materials.	Increase by a factor of 1,000 in radiation monitor reading within the station.	HP/0/B/1009/05
4.2.7 Loss of offsite power <u>and</u> loss of all onsite AC power for up to 15 minutes. (See Site Area Emergency RP/0/A/5700/03, for extended loss).	Undervoltage alarm on 7KV buses, <u>and</u> blackout load sequencers actuated.	EP/1/A/5000/09, EP/2/A/5000/09
4.2.8 Loss of all onsite DC power.	DC bus undervoltage alarms on all buses.	Tech Specs 3/4.8.2.3, Tech Specs 3/4.8.2.4

Initiating Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4.2.9 Coolant pump seizure leading to fuel failure.	Reactor coolant pump auto trip alarm, and reactor trip on low coolant flow, and failed fuel monitor alarm EMF48.	AP/1/A/5500/04, AP/2/A/5500/04, AP/1/A/5500/08, AP/2/A/5500/08, OP/0/A/6150/14, AP/1/A/5500/05, AP/2/A/5500/05
4.2.10 Complete loss of functions needed for plant cold shutdown.	RHR not functional and inability to sustain natural or forced circulation.	AP/1/A/5500/17, AP/2/A/5500/17, OP/1/A/6100/04, OP/2/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 activation of the Reactor Protection System.	AP/0/A/5500/34
4.2.12 Fuel damage accident with release of radioactivity to containment or fuel handling building.	Observation of damage to spent fuel assembly, and 1. 1EMF-16 or 17 alarm or 2EMF-3 or 4 alarm. 2. EMF-38, 39, 40, or 42 alarm.	AP/1/A/5500/25, AP/2/A/5500/25
4.2.13 Fire potentially affecting safety systems.	Observation of a fire that could affect safety systems.	Station Directive 2.11 Series, Tech Specs 3/4.5
4.2.14 Most or all alarms (annunciators) lost.	As observed.	OP/0/A/6350/01A

Initiating Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4.2.15 Airborne Radiological effluents >10 times Tech Specs instantaneous limits (an instantaneous rate which, if continued over 2 hours, would result in about 1mR at the site boundary under average meteorological conditions or whenever effluent monitors or radiological monitoring detect these levels).	For EMF35 - Low Range offscale High Range 1×10^4 cpm For EMF36 - Low Range 2×10^6 cpm High Range 5×10^2 cpm	HP/0/B/1009/05
4.2.16 Ongoing security compromise.	As reported by Security force.	Station Security Plan
4.2.17 Severe natural phenomena being experienced or projected:		RP/0/A/5700/06, RP/0/A/5700/07
a. Earthquake greater than Operational Basis Earthquake Levels	>0.08gH, >.053gV, Annunciator Alarm, (AD-13).	
b. Flood, low water, hurricane 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.		RP/0/A/5700/08, RP/0/A/5700/09, AP/1/A/5500/23, AP/2/A/5500/23
a. Aircraft crash on facility.	As observed.	

Initiating Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
b. Missile impacts from whatever source on facility.	As observed.	
c. Know explosion damage to facility affecting plant operation.	As observed.	
d. Entry into facility environs of toxic or flammable gases.	As observed.	
e. Turbine failure causing casing penetration.	Turbine trip and observation of turbine malfunction or failure.	
4.2.19 Other plant conditions exist that in the judgment of the Shift Supervisor, the Operations Duty Engineer, the Superintendent of Operations, or the Plant Manager warrant precautionary 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, AP/2/A/5500/17, OP/1/A/6100/04, OP/2/A/6100/04

NOTIFICATION CHART
ALERT

Notify the following personnel for all Initiating Conditions listed in
Enclosure 4.2. (See Enclosure 4.4 for Telephone Listing)

NOTIFY	NOTIFICATION COMPLETE-INITIAL
Shift Supervisor	
Operations Duty Engineer	
Station Manager	
Nuclear Production Duty Engineer (Enclosure 4.6)	
North Carolina State Warning Point	
Mecklenburg County Warning Point	
Lincoln County Warning Point	
Catawba County Warning Point	(Enclosure 4.5)
Iredell County Warning Point	
Gaston County Warning Point	
Cabarrus County Warning Point	
N.R.C. via ENS (Red Phone) (See RP/0/A/5700/10)	

TELEPHONE LISTING

- 4.4.1 Operations Duty Engineer (PA System if onsite)
P&T Pager [REDACTED] home telephone if offsite.
- 4.4.2 Station Manager - M. D. McIntosh
Office [REDACTED]
Home [REDACTED] System Speed - [REDACTED]
- 1st. Alternate - G. Cage
Office [REDACTED]
Home [REDACTED] System Speed - [REDACTED]
- 2nd. Alternate - T. L. McConnell
Office [REDACTED]
Home [REDACTED] System Speed - [REDACTED]
- 3rd. Alternate - D. J. Rains
Office [REDACTED]
Home [REDACTED] System Speed - [REDACTED]
- 4th Alternate - L. E. Weaver
Office [REDACTED]
Home [REDACTED] System Speed - [REDACTED]
- 4.4.3 Nuclear Production Duty Engineer [REDACTED] System Speed - [REDACTED]
P&T Pager [REDACTED]
- 4.4.4 NC State Warning Point, Raleigh [REDACTED] System Speed [REDACTED]
- 4.4.5 Mecklenburg County Warning Point - Primary: Ring Down Phone
Back-up: [REDACTED] System Speed
Back-up: Emergency Radio, Code: [REDACTED]
- 4.4.6 Lincoln County Warning Point - Primary: Ring Down Phone
Back-up: [REDACTED] System Speed
Back-up: Emergency Radio, Code: [REDACTED]
- 4.4.7 Catawba County Warning Point - Primary: Ring Down Phone
Back-up: [REDACTED] System Speed
Back-up: Emergency Radio, Code: [REDACTED]
- 4.4.8 Iredell County Warning Point - Primary: Ring Down Phone
Back-up: [REDACTED] System Speed
Back-up: Emergency Radio, Code: [REDACTED]
- 4.4.9 Gaston County Warning Point - Primary: Ring Down Phone
Back-up: [REDACTED] System Speed
Back-up: Emergency Radio, Code: [REDACTED]

4.4.10 Cabarrus County Warning Point - Primary: Ring Down Phone
Back-up: [REDACTED] System Speed
Back-up: Emergency Radio, Code: [REDACTED]

NOTE

1. Radio Code [REDACTED] will activate all county radio units.
2. P&T Pager, Central Division (Charlotte Area) Dial [REDACTED]

4.4.11 N.R.C. Operation Center, Emergency Notification System (ENS phone)

4.4.12 Radiation Protection Section Department of Human Resources
[REDACTED] System Speed [REDACTED]

WARNING MESSAGE: NUCLEAR FACILITY TO STATE/LOCAL GOVERNMENT

Instructions:

RP/O/A/5700/02

ENCLOSURE 4.5

PAGE 1 OF 4

A. For Sender:

1. Complete Part I for the Initial Warning Message.
2. Complete Parts I & II for followup messages.

B. For Receiver:

1. Record the date, time and your name in the area below.
2. Authenticate this message by verifying the code word or by calling back to the facility. (See Part I .5)

Time: _____ Date: _____

Message Received By: _____

PART I

1. This is: McGuire Nuclear Station
(Insert name of facility)
2. My name is: _____
3. This message (number___):
_____(a) Reports a real emergency.
_____(b) Is an exercise message.
4. My telephone number/extension is _____
5. Message authentication: _____
(Verify code word or call back to the facility)
6. The class of the emergency is: _____(a) Notification of Unusual Event
_____(b) Alert
_____(c) Site Emergency
_____(d) General Emergency
7. This classification of emergency was declared at: _____ (a.m./p.m.) on _____ (date).
8. The initiating event causing the emergency classification is: Unit affected: 1,2, Both

9. The emergency condition: _____(a) Does not involve the release of radioactive materials from the plant.
_____(b) Involves the potential for a release, but no release is occurring.
_____(c) Involves a release of radioactive material.

10. We recommend the following protective action:

- _____ (a) No protective action is recommended at this time.
- _____ (b) People living in zones _____ remain indoors with the doors and windows closed.
- _____ (c) People in zones _____ evacuate their homes and businesses.
- _____ (d) Pregnant women and children in zones _____ remain indoors with the doors and windows closed.
- _____ (e) Pregnant women and children in zones _____ evacuate to the nearest shelter/reception center.
- _____ (f) Other recommendations: _____

11. There will be:

- _____ (a) A followup message
- _____ (b) No further communications

12. I repeat, this message:

PART I APPROVED FOR RELEASE

- _____ (a) Reports an actual emergency
- _____ (b) Is an exercise message

Signature (Emergency Coordinator)

13. RELAY THIS INFORMATION TO THE PERSONS INDICATED ON YOUR ALERT PROCEDURE FOR AN INCIDENT AT A NUCLEAR FACILITY.

END OF INITIAL WARNING MESSAGE

* Record the Name, Date, Title, and the Warning Point notified on Page 4 of 4.

PART II

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 at _____ a.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, or _____ curies/sec.

Windspeed: _____ 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		
5 miles		
10 miles		

Projected Integrated Dose In Rem

Distance	Whole Body	Child Thyroid
Site Boundary		
2 miles		
5 miles		
10 miles		

6. Field measurement of dose rate or contamination (if available): _____

7. Emergency actions underway at the facility include: _____

8. Onsite support needed from offsite organizations: _____

9. Plant status:

(a) Reactor is: not tripped/tripped

(b) Plant is at: _____ % power/hot shutdown/cold shutdown/cooling down

(c) Prognosis is: stable/improving/degrading/unknown.

10. I repeat, this message:

- _____ (a) Reports an actual emergency.
_____ (b) Is an exercise message.

PART I and II APPROVED FOR RELEASE

11. Do you have any questions?

Signature (Emergency Coordinator)

END OF FOLLOW-UP MESSAGE

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

Record the name title, date, time, and persons notified per alert procedure. (Receivers)

1.	_____	Communicator
	(name)	(title)
	_____	Mecklenburg County
	(date) (time)	(warning point)
2.	_____	Communicator
	(name)	(title)
	_____	Cabarrus County
	(date) (time)	(warning point)
3.	_____	Communicator
	(name)	(title)
	_____	Lincoln County
	(date) (time)	(warning point)
4.	_____	Communicator
	(name)	(title)
	_____	Gaston County
	(date) (time)	(warning point)
5.	_____	Communicator
	(name)	(title)
	_____	Iredell County
	(date) (time)	(warning point)
6.	_____	Communicator
	(name)	(title)
	_____	Catawba County
	(date) (time)	(warning point)
7.	_____	Communicator
	(name)	(title)
	_____	North Carolina
	(date) (time)	(warning point)
8.	_____	Communicator
	(name)	(title)
	_____	South Carolina
	(date) (time)	(warning point)

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

1. This is _____ at McGuire Nuclear Station.
(Name and Title)
2. This is/is not a Drill. An ☐ Unusual Event
☐ Alert
☐ Site Area Emergency
☐ General Emergency
was declared by the Emergency Coordinator at _____ on Unit Number ____.
(Time)
3. Initiating Condition: (Give as close to the emergency procedure description as possible together with station parameters used to determine emergency status)

4. Corrective Measures Being Taken: _____

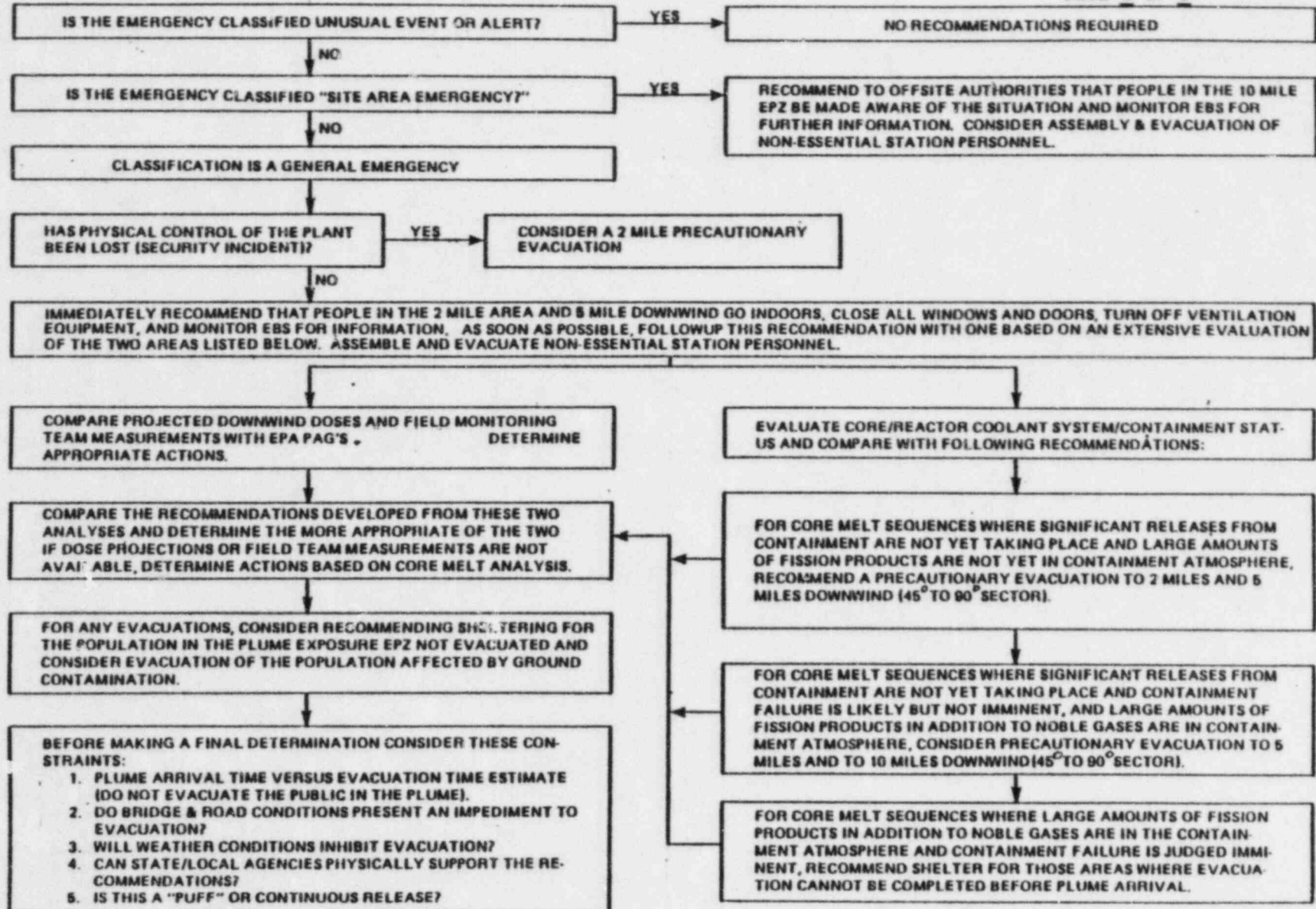
5. There Have/Have Not been any injuries to plant personnel.
6. Release of radioactivity: Is/Is not taking place
7. NRC ☐ Yes ☐ No, State ☐ Yes ☐ No, Counties ☐ Yes ☐ No,
have been notified.
8. The Crisis Management Team should be activated.
9. I can be reached at _____ for follow-up information.
(Telephone Number)
10. Additional Comments: _____

PROTECTIVE ACTION RECOMMENDATION FLOW CHART

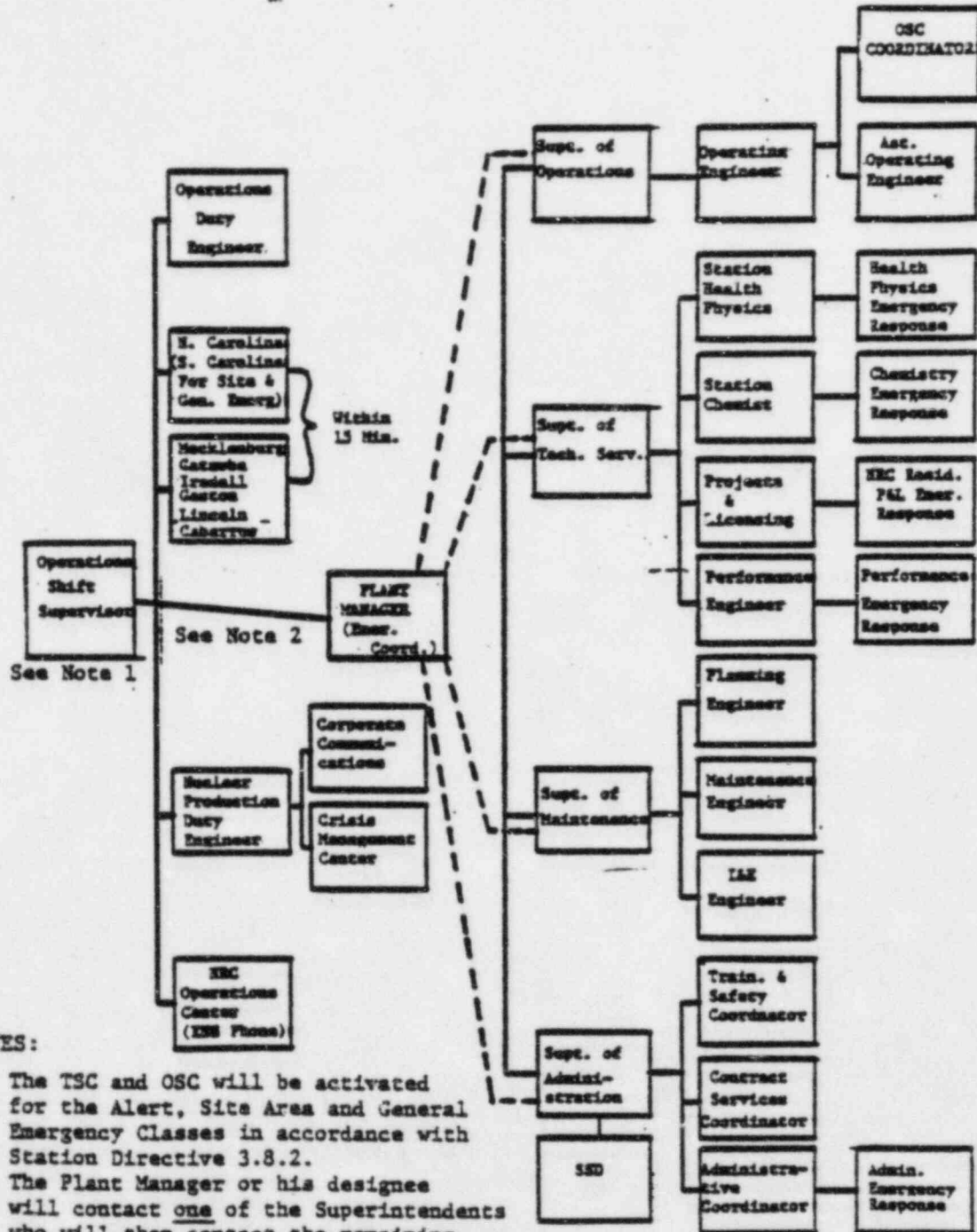
RP/0/A/5700/02

ENCLOSURE 4.7

PAGE 1 OF 1



NOTIFICATION TREE
(All Plant Emergencies)



NOTES:

1. The TSC and OSC will be activated for the Alert, Site Area and General Emergency Classes in accordance with Station Directive 3.8.2.
2. The Plant Manager or his designee will contact one of the Superintendents who will then contact the remaining Superintendents. Each Superintendent will contact the appropriate personnel in his area of responsibility.

DUKE POWER COMPANY
PROCEDURE PREPARATION
PROCESS RECORD

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

(2) STATION: McGuire Nuclear Station

(3) PROCEDURE TITLE: Site Area Emergency

(4) PREPARED BY: M. S. Glover

DATE: 3/1/84

(5) REVIEWED BY: [Signature]

DATE: 3-2-84

Cross-Disciplinary Review By: _____

N/R: [Signature]

(6) TEMPORARY APPROVAL (IF NECESSARY):

By: _____ (SRO) Date: _____

By: _____ Date: _____

(7) APPROVED BY: [Signature]

Date: 3/2/84

(8) MISCELLANEOUS:

Reviewed/Approved By: _____ Date: _____

Reviewed/Approved By: _____ Date: _____

DUKE POWER COMPANY
McGUIRE NUCLEAR STATION
SITE AREA EMERGENCY

1.0 Symptoms

- 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 Actions

2.1 Automatic

None

2.2 Manual

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

3.0 Subsequent Actions

Initial/N/A

- / 3.1 The Shift Supervisor/Emergency Coordinator 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 Guide Flowchart and Enclosure 4.2, List of Initiating Conditions, Emergency Action Levels, and Associated Emergency Procedure/Document.

NOTE

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.

- / 3.2 The Emergency Coordinator shall assure that all actions required by the initiating Emergency Procedure(s) will be performed and that all actions necessary for the protection of persons and property are being taken.

NOTE

The Emergency Coordinator shall consider the need for site assembly/accountability and/or evacuation of all non-essential onsite personnel. See Station Directive 3.8.1.

- / 3.3 The Emergency Coordinator shall recommend to offsite authorities that the following actions take place:

3.3.1 Activate the Alert & Notification System, Sirens and the Emergency Broadcast System (EBS). Recommend to offsite authorities that people living in the 10 mile radius of McGuire be made aware of the plant condition and that they monitor EBS for further information.

- / 3.4 The Emergency Coordinator shall assure prompt (within about 15 minutes of declaring the emergency) notification of the North Carolina State and Local County Warning Points indicated on Enclosure 4.3. He shall also assure notification of all other personnel listed in Enclosure 4.3. (Notifications to other appropriate personnel not listed in this procedure are provided by Enclosure 4.8).

NOTE 1

Activation of the Technical Support Center (TSC), and Operations Support Center (OSC) shall be in accordance with Station Directive 3.8.2. Recommend activation of the Crisis Management Center (CMC) 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, Warning Message: Nuclear Facility to State/Local Government, 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 the Onsite and Offsite monitoring teams with associated communications equipment.

3.5.2 Providing meteorological and dose estimates to offsite authorities for actual releases via a dedicated individual or automated data transmission.

- 3.5.3 Providing release and dose projections based on available plant condition information and foreseeable contingencies to offsite authorities.

NOTE

In the event a release or potential release of radioactive materials is a threat to plant personnel or members of the general public, the Emergency Coordinator shall utilize the Operator Aid Computer (OAC) "NUCLEAR-23" program to assess the offsite consequences. In the event the (OAC) is not operational the Emergency 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 protective action recommendations as necessary to the affected county warning point(s) and to the North Carolina Warning Point (Emergency Operating Centers, if established) or the State Radiological Protection Section, Department of Human Resources (see Enclosure 4.7, Protective Action Recommendation Flow Chart) as directed by the state, in accordance with the North Carolina 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, Telephone Listing for notification.

 / 3.7 The Emergency Coordinator in coordination with the Recovery Manager, at the Crisis Management Center, will:

3.7.1 Provide a dedicated individual for plant status updates to offsite authorities and periodic press briefings.

3.7.2 Make available senior technical and management staff onsite for consultation with the NRC and State on a periodic basis.

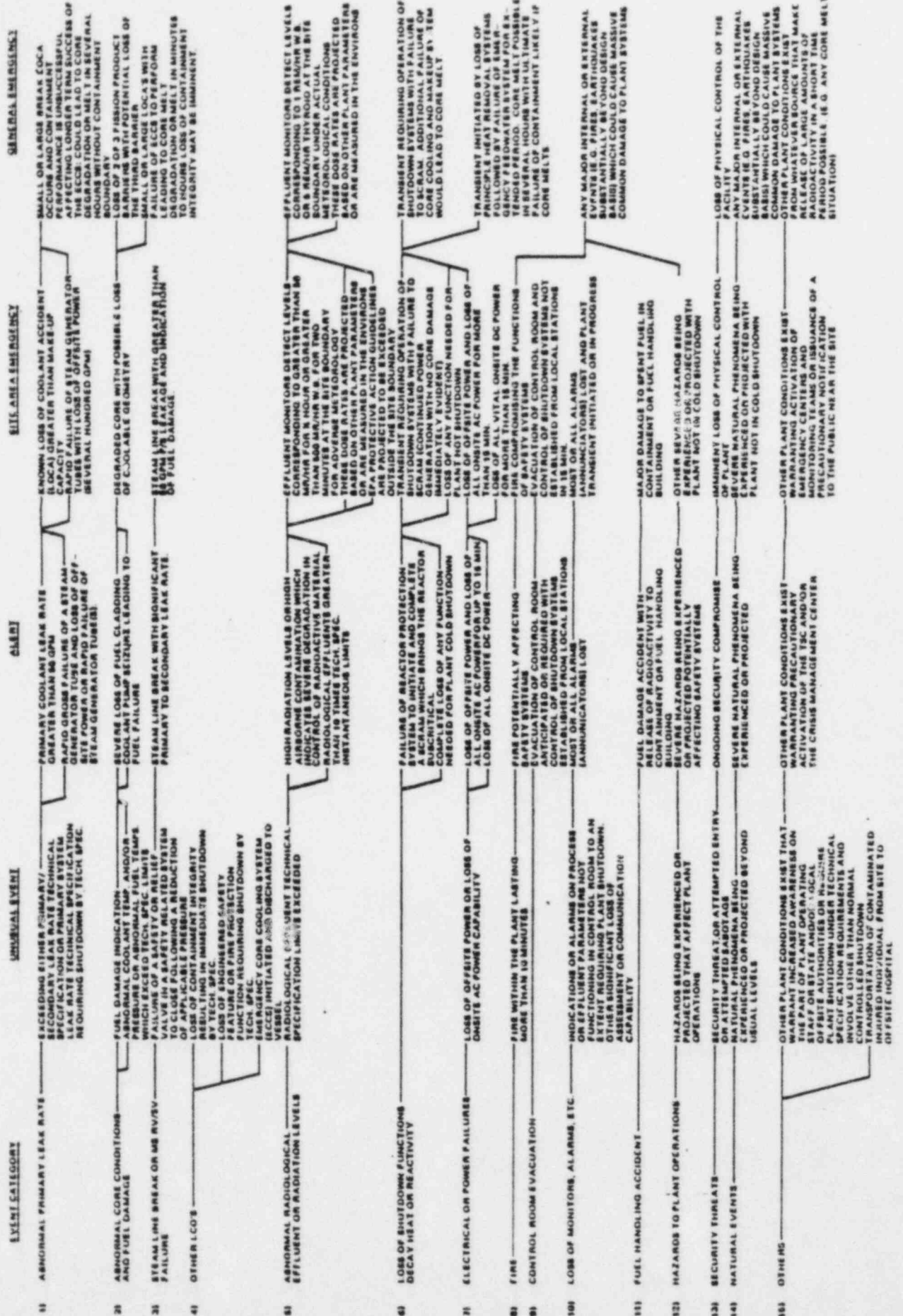
3.7.3 Assess the emergency condition and determine the need to remain in a Site Area Emergency, escalate to a more severe class, reduce the emergency class, or close out the emergency.

 / 3.8 The Recovery Manager at the Crisis Management Center will close out or recommend reduction of the emergency class, by briefing of those personnel and offsite authorities notified in Step 3.4 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 Warning Message: Nuclear Facility to State/Local Government
- 4.6 Emergency Plan Message Format
- 4.7 Protective Action Recommendation Flow Chart
- 4.8. Notification Tree

EMERGENCY CLASSIFICATION GUIDE FLOWCHART



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

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

Initiating 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, <u>and</u> High containment building pressure, if steamline break is in containment (NSP5040, 5050, 5060, 5070) <u>and</u> EMF 51A and/or B alarm, <u>or</u> high steam flow and Lo Lo Tavg or low steam pressure safety injection signal, <u>and</u> EMF 48 alarm.	EP/1/A/5000/03, EP/2/A/5000/03
4.2.5 Loss of offsite power <u>and</u> loss of onsite AC power for more than 15 minutes.	No voltage on ETA and ETB <u>and</u> No voltage on ATA and ATB	EP/1/A/5000/09, EP/2/A/5000/09
4.2.6 Loss of all vital onsite DC power for more than 15 minutes	DC bus undervoltage all buses <u>and</u> 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, <u>and</u> Inability to establish emergency feedwater flow, <u>or</u> Inability to establish service water flow, <u>and</u> Inability to establish component cooling water flow.	OP/1/A/6100/04, OP/2/A/6100/04, AP/1/A/5500/17, AP/2/A/5500/17
4.2.8 Transient requiring 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, EP/2/A/5000/01, AP/0/A/5500/34

Initiating Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4.2.9 Major damage to spent fuel in containment or fuel handling building (e.g., large object damages fuel or water loss below fuel level).	Observation of major damage to one or more spent fuel assemblies, and/or spent fuel pool water below fuel level and 1EMF-16 & 17, 2 EMF-3 or 4 or EMF -38, 39, 40 or 42 alarms.	AP/1/A/5500/25, AP/2/A/5500/25
4.2.10 Fire compromising the function of safety systems.	Observation of a major fire that defeats redundant safety system or function.	Tech Specs 3/4.5, Station Directive 2.11 Series
4.2.11 Most or all alarms (annunciators) lost and plant transient initiated or in progress.	As determined by the Shift Supervisor/ Emergency Coordinator.	OP/0/A/6350/01A
4.2.12 Airborne radiological effluent monitors detect levels corresponding to greater than 50 mr/hr for 1/2 hour or greater than 500 mr/hr W.B. for two minutes (or five times these levels to the thyroid) at the site boundary for adverse meteorology (See Note 2).	<p>For EMF35 Low Range, offscale High Range 8×10^3 cpm. (See Note 1)₅</p> <p>For EMF36 Low Range 3×10^5 cpm High Range 7×10^1 cpm (See Note 1)</p> <p>For EMF37 Change of 143 cpm/minute for 30 minutes or a change of 1430 cpm/minute for 2 minutes (See Note 1).</p>	HP/0/B/1009/05, HP/0/B/1009/09

NOTE 1: These values are worst case calculations and may not reflect more favorable weather conditions.

Initiating Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
	<p>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).</p>	
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 phenomena being experienced or projected with plant not in cold shutdown.		RP/0/A/5700/06, RP/0/A/5700/07
4.2.14.1		
Earthquake greater than SSE (Safe Shutdown Earthquake) levels.	(>.15gH, >.1gV) as determined by monitoring seismic instrumentation and recording devices. (SMP-1)	
4.2.14.2		
Flood, low water, hurricane surge, seiche greater than design levels (lake tidal waves) or failure of protection of vital equipment at lower levels.	As determined by Shift Supervisor/Emergency Coordinator.	
4.2.14.3		
Sustained winds or tornadoes in excess of design levels.	(>95mph) as observed or documented by the National Weather Service Information.	

Initiating Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4.2.15 Other hazards being experienced or projected with plant not in cold shutdown.		RP/O/A/5700/08, RP/O/A/5700/09
4.2.15.1		
Aircraft crash affecting vital structures by impact or fire.	Aircraft crash causing damage or fire to: Containment Building, Control Room, Auxiliary Building, Fuel Building, or Intake Structure.	
4.2.15.2		
Severe damage to safe shutdown equipment from missiles or explosion.	Loss of functions needed for hot shutdown as in 4.2.7.	
4.2.15.3		
Entry of uncontrolled flammable gases into vital areas. Entry of uncontrolled toxic gases into vital areas where lack of access to the area constitutes a safety problem.	Entry of uncontrolled or toxic or flammable gases into: Control Room, Cable Spreading Room, Containment Building, Switchgear Room, Safe Shutdown Panels or Diesel Rooms.	

Initiating Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
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.
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/ Emergency Coordinator.	OP/0/A/6350/02, AP/1/A/5500/17, AP/2/A/5500/17

NOTIFICATION CHART
SITE AREA EMERGENCY

Notify the following personnel for all Initiating Conditions listed in Enclosure 4.2. (See Enclosure 4.4 for Telephone Listing)

NOTIFY	NOTIFICATION COMPLETE-INITIAL
Shift Supervisor	
Operations Duty Engineer	
Station Manager	
Nuclear Production Duty Engineer (ENCLOSURE 4.6)	
North Carolina State Warning Point	
Mecklenburg County Warning Point	
Lincoln County Warning Point	
Catawba County Warning Point (ENCLOSURE 4.5)	
Iredell County Warning Point	
Gaston County Warning Point	
Cabarrus County Warning Point	
South Carolina State Warning Point	
N.E.C. via ENS (Red Phone) (See RP/0/A/5700/10)	

TELEPHONE LISTING

- 4.4.1 Operations Duty Engineer (PA System if onsite)
P&T Pager [REDACTED] home telephone if offsite.
- 4.4.2 Station Manager - M. D. McIntosh
Office [REDACTED]
Home [REDACTED] System Speed
- 1st. Alternate - G. Cage
Office [REDACTED]
Home [REDACTED] System Speed
- 2nd. Alternate - T. L. McConnell
Office [REDACTED]
Home [REDACTED] System Speed
- 3rd. Alternate - D. J. Rains
Office [REDACTED]
Home [REDACTED] - System Speed -
- 4th Alternate - L. E. Weaver
Office [REDACTED]
Home [REDACTED] System Speed -
- 4.4.3 Nuclear Production Duty Engineer [REDACTED] System Speed
P&T Pager [REDACTED]
- 4.4.4 NC State Warning Point, Raleigh [REDACTED] System Speed -
- 4.4.5 Mecklenburg County Warning Point - Primary: Ring Down Phone
Back-up: [REDACTED] System Speed
Back-up: Emergency Radio, Code: [REDACTED]
- 4.4.6 Lincoln County Warning Point - Primary: Ring Down Phone
Back-up: [REDACTED] System Speed
Back-up: Emergency Radio, Code: [REDACTED]
- 4.4.7 Catawba County Warning Point - Primary: Ring Down Phone
Back-up: [REDACTED] System Speed
Back-up: Emergency Radio, Code: [REDACTED]
- 4.4.8 Iredell County Warning Point - Primary: Ring Down Phone
Back-up: [REDACTED] System Speed
Back-up: Emergency Radio, Code: [REDACTED]
- 4.4.9 Gaston County Warning Point - Primary: Ring Down Phone
Back-up: [REDACTED] System Speed
Back-up: Emergency Radio, Code: [REDACTED]

4.4.10 Cabarrus County Warning Point - Primary: Ring Down Phone
Back-up: [REDACTED] System Speed
Back-up: Emergency Radio, Code: [REDACTED]

4.4.11 South Carolina State Warning Point [REDACTED]

NOTE

1. Radio Code [REDACTED] will activate all county radio units.
2. P&T Pager, Central Division (Charlotte Area) Dial [REDACTED]

4.4.11 N.R.C. Operation Center, Emergency Notification System (ENS phone)

4.4.12 Radiation Protection Section Department of Human Resources
[REDACTED] System Speed [REDACTED]

WARNING MESSAGE: NUCLEAR FACILITY TO STATE/LOCAL GOVERNMENT

Instructions:

A. For Sender:

1. Complete Part I for the Initial Warning Message.
2. Complete Parts I & II for followup messages.

B. For Receiver:

1. Record the date, time and your name in the area below.
2. Authenticate this message by verifying the code word or by calling back to the facility. (See Part I .5)

RP/O/A/5700/03

ENCLOSURE 4.5

PAGE 1 OF 4

Time: _____ Date: _____

Message Received By: _____

PART I

1. This is: McGuire Nuclear Station
(Insert name of facility)
2. My name is: _____
3. This message (number _____):
_____(a) Reports a real emergency.
_____(b) Is an exercise message.
4. My telephone number/extension is: _____
5. Message authentication: _____
(Verify code word or call back to the facility)
6. The class of the emergency is: _____(a) Notification of Unusual Event
_____(b) Alert
_____(c) Site Emergency
_____(d) General Emergency
7. This classification of emergency was declared at: _____ (a.m./p.m.) on _____ (date).
8. The initiating event causing the emergency classification is: Unit affected: 1,2,Both

9. The emergency condition: _____(a) Does not involve the release of radioactive materials from the plant.
_____(b) Involves the potential for a release, but no release is occurring.
_____(c) Involves a release of radioactive material.

10. We recommend the following protective action:

- _____ (a) No protective action is recommended at this time.
- _____ (b) People living in zones _____ remain indoors with the doors and windows closed.
- _____ (c) People in zones _____ evacuate their homes and businesses.
- _____ (d) Pregnant women and children in zones _____ remain indoors with the doors and windows closed.
- _____ (e) Pregnant women and children in zones _____ evacuate to the nearest shelter/reception center.
- _____ (f) Other recommendations: _____

11. There will be:

- _____ (a) A followup message
- _____ (b) No further communications

12. I repeat, this message:

PART I APPROVED FOR RELEASE

- _____ (a) Reports an actual emergency
- _____ (b) Is an exercise message

Signature (Emergency Coordinator)

13. RELAY THIS INFORMATION TO THE PERSONS INDICATED ON YOUR ALERT PROCEDURE FOR AN INCIDENT AT A NUCLEAR FACILITY.

END OF INITIAL WARNING MESSAGE

* Record the Name, Date, Title and the Warning Point notified on Page 4 of 4.

PART II

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 at ____ a.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, or _____ curies/sec.

Windspeed: _____ 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		
5 miles		
10 miles		

Projected Integrated Dose In Rem

Distance	Whole Body	Child Thyroid
Site Boundary		
2 miles		
5 miles		
10 miles		

6. Field measurement of dose rate or contamination (if available): _____

7. Emergency actions underway at the facility include: _____

8. Onsite support needed from offsite organizations: _____

9. Plant status:

(a) Reactor is: not tripped/tripped

(b) Plant is at: _____ % power/hot shutdown/cold shutdown/cooling down

(c) Prognosis is: stable/improving/degrading/unknown.

10. I repeat, this message:

- _____ (a) Reports an actual emergency.
_____ (b) Is an exercise message.

PART I and II APPROVED FOR RELEASE

11. Do you have any questions?

Signature (Emergency Coordinator)

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

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

Record the name title, date, time, and persons notified per alert procedure. (Receivers)

1.	_____	Communicator
	(name)	(title)
	_____	Mecklenburg County
	(date) (time)	(warning point)
2.	_____	Communicator
	(name)	(title)
	_____	Cabarrus County
	(date) (time)	(warning point)
3.	_____	Communicator
	(name)	(title)
	_____	Lincoln County
	(date) (time)	(warning point)
4.	_____	Communicator
	(name)	(title)
	_____	Gaston County
	(date) (time)	(warning point)
5.	_____	Communicator
	(name)	(title)
	_____	Iredell County
	(date) (time)	(warning point)
6.	_____	Communicator
	(name)	(title)
	_____	Catawba County
	(date) (time)	(warning point)
7.	_____	Communicator
	(name)	(title)
	_____	North Carolina
	(date) (time)	(warning point)
8.	_____	Communicator
	(name)	(title)
	_____	South Carolina
	(date) (time)	(warning point)

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

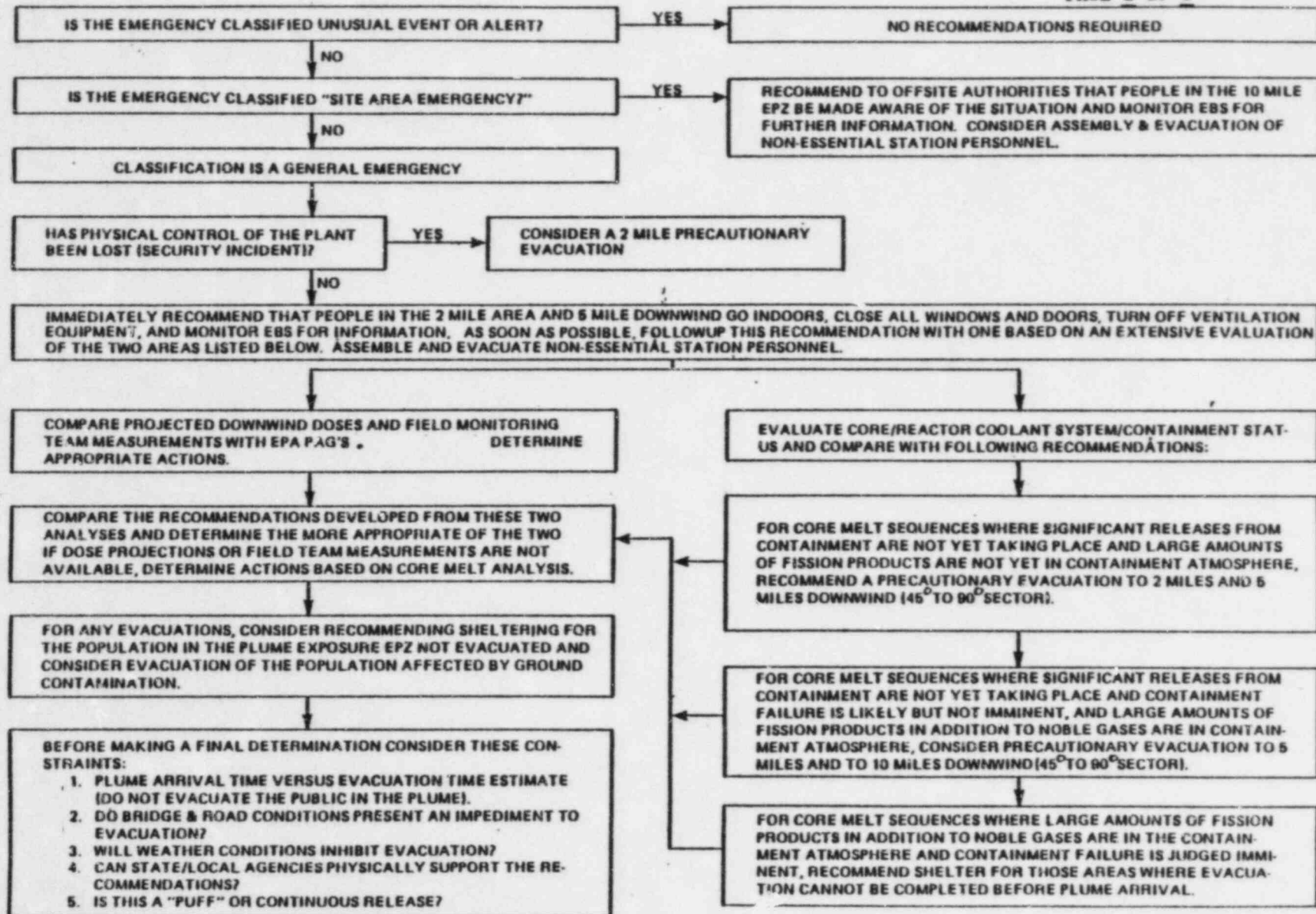
1. This is _____ at McGuire Nuclear Station.
(Name and Title)
2. This is/is not a Drill. An ___ Unusual Event
___ Alert
___ Site Area Emergency
___ General Emergency
was declared by the Emergency Coordinator at _____ on Unit Number _____.
(Time)
3. Initiating Condition: (Give as close to the emergency procedure description as possible together with station parameters used to determine emergency status)

4. Corrective Measures Being Taken: _____

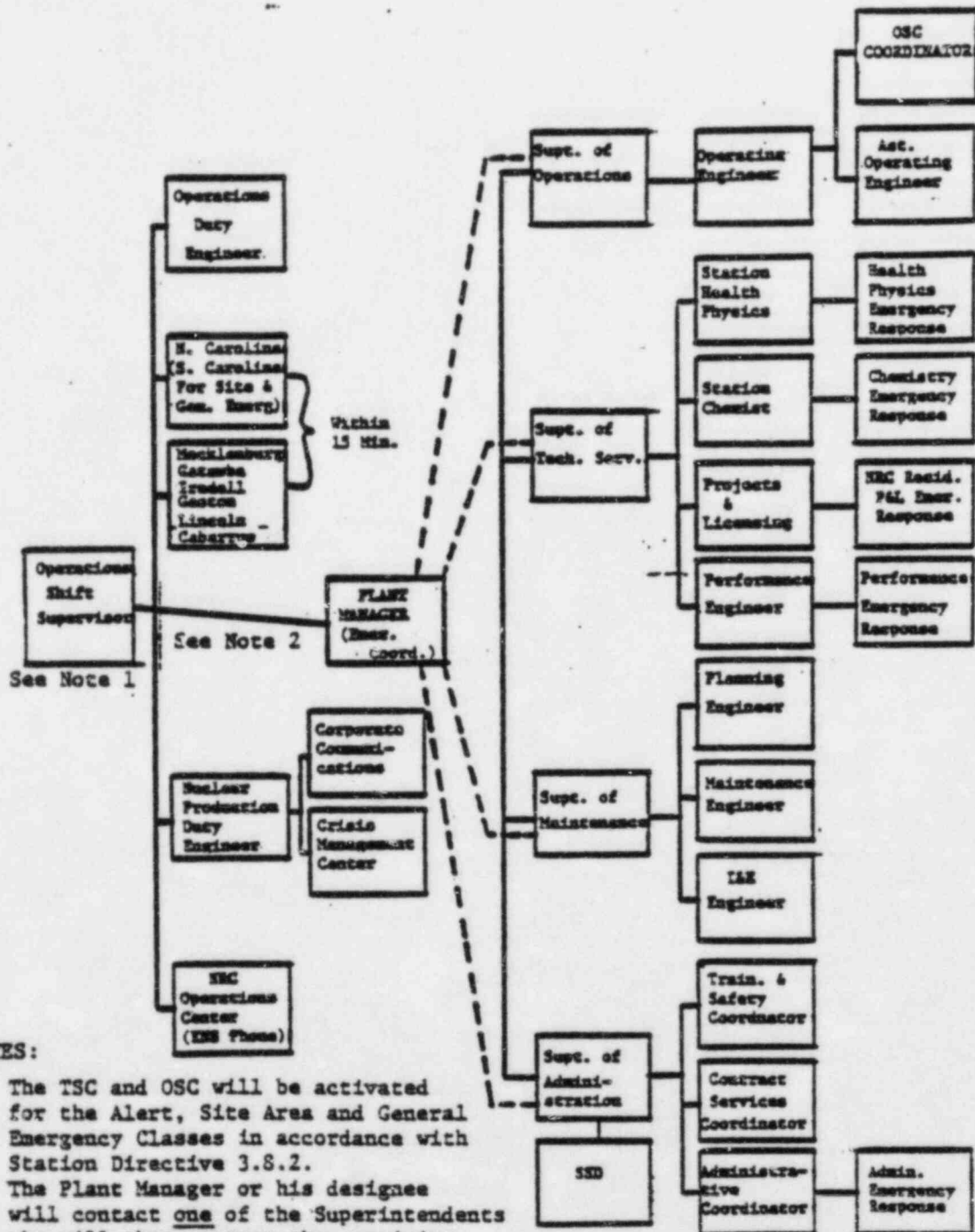
5. There Have/Have Not been any injuries to plant personnel.
6. Release of radioactivity: Is/Is not taking place
7. NRC ___Yes ___No, State ___Yes ___No, Counties ___Yes ___No, have been notified.
8. The Crisis Management Team should be activated.
9. I can be reached at _____ for follow-up information.
(Telephone Number)
10. Additional Comments: _____

PROTECTIVE ACTION RECOMMENDATION FLOW CHART

RP/0/A/5700/03
ENCLOSURE 4.7
PAGE 1 OF 1



NOTIFICATION TREE
(All Plant Emergencies)



NOTES:

1. The TSC and OSC will be activated for the Alert, Site Area and General Emergency Classes in accordance with Station Directive 3.8.2.
2. The Plant Manager or his designee will contact one of the Superintendents who will then contact the remaining Superintendents. Each Superintendent will contact the appropriate personnel in his area of responsibility.

DUKE POWER COMPANY
PROCEDURE PREPARATION
PROCESS RECORD

(1) ID No: RP/O/A/5700/04
Change(s) 0 to
0 Incorporated

(2) STATION: McGuire Nuclear Station

(3) PROCEDURE TITLE: General Emergency

(4) PREPARED BY: M. S. Glover

DATE: 3/1/84

(5) REVIEWED BY: AD Albert

DATE: 3-2-84

Cross-Disciplinary Review By: _____

N/R: AD

(6) TEMPORARY APPROVAL (IF NECESSARY):

By: _____ (SRO) Date: _____

By: _____ Date: _____

(7) APPROVED BY: George W. Cay

Date: 3/2/84

(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 Actions

2.1 Automatic

None

2.2 Manual

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

3.0 Subsequent Actions

Initial/N/A

- / 3.1 The Shift Supervisor/Emergency Coordinator 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 Guide Flowchart and Enclosure 4.2, List of Initiating Conditions, Emergency Action Levels, and Associated Emergency Procedure/Document.

NOTE

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.

/ 3.2 Upon declaration of a General Emergency, the Emergency Coordinator shall immediately recommend to offsite authorities, sheltering (remain indoors with the doors and windows closed, and ventilation equipment turned off, monitor Emergency Broadcast networks) of the general public within the 2 mile radius (Areas B, C, M, and L) and 5 miles downwind (90° Sector) of the station. (Utilize Enclosure 4.8, McGuire Protective Action Zones to determine those areas affected to 5 miles downwind). Provide a follow-up recommendation as soon as possible after evaluating the specific plant conditions, offsite dose projections and field monitoring team measurements as they become available. (See Enclosure 4.7, Protective Action Recommendation Flow Chart).

 / 3.3 The Emergency Coordinator shall assure that all actions required by the initiating Emergency Procedure(s) will be performed and that all actions necessary for the protection of persons and property are being taken.

NOTE

Immediately conduct a Site Assembly and subsequent evacuation off all non-essential onsite personnel in accordance with Station Directive 3.8.1.

- / 3.4 The Emergency Coordinator shall assure prompt (within about 15 minutes of declaring the emergency) notification of the North Carolina State and Local County Warning Points indicated on Enclosure 4.3. He shall also assure notification of all other personnel listed in Enclosure 4.3. (Notifications to other appropriate personnel not listed in this procedure are provided by Enclosure 4.9, Notification Tree.

NOTE 1

Activation of the Technical Support Center (TSC), and Operations Support Center (OSC) shall be in accordance with Station Directive 3.8.2. Recommend activation of the Crisis Management Center (CMC) 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, Warning Message: Nuclear Facility to State/Local Government, 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 the Onsite and Offsite monitoring teams with associated communications equipment.

- 3.5.2 Providing meteorological and dose estimates to offsite authorities for actual releases via a dedicated individual or automated data transmission.
- 3.5.3 Providing release and dose projections based on available plant condition information and foreseeable contingencies to offsite authorities.

NOTE

In the event a release or potential release of radioactive materials is a threat to plant personnel or members of the general public, the Emergency Coordinator shall utilize the Operator Aid Computer (OAC) "NUCLEAR-23" program to assess the offsite consequences. In the event the (OAC) is not operational the Emergency 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 Operating Centers, if established) or the State Radiological Protection Section, Department of Human Resources (see Enclosure 4.7, Protective Action Recommendation Flow Chart) as directed by the state, in accordance with the North Carolina 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, Telephone Listing for notification.

- / 3.7 The Emergency Coordinator in coordination with the Recovery Manager, at the Crisis Management Center, will:
- 3.7.1 Provide a dedicated individual for plant status updates to offsite authorities and periodic press briefings.
 - 3.7.2 Make available senior technical and management staff onsite for consultation with the NRC and State on a periodic basis.
 - 3.7.3 Determine the need to remain in a General Emergency, reduce the emergency class, or close out the emergency.
- / 3.8 The Recovery Manager at the Crisis Management Center will close out or recommend reduction of the emergency class, by briefing of those personnel and offsite authorities notified in Step 3.4 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 Warning Message: Nuclear Facility to State/Local Government
- 4.6 Emergency Plan Message Format
- 4.7 Protective Action Recommendation Flow Chart
- 4.8 McGuire Protective Action Zones
- 4.9 Notification Tree

EMERGENCY CLASSIFICATION GUIDE FLOWCHART



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

Initiating Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
<p>4.2.1 Effluent monitors detect levels corresponding to 1 rem/hr Whole Body or 5 rem/hr Thyroid at the site boundary under <u>actual meteorological conditions.</u></p> <p><u>NOTE 1:</u> These dose rates are projected based 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.</p> <p><u>NOTE 2:</u> 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.</p>	<p>As observed by control room personnel.</p>	<p>HP/0/B/1009/05</p>

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

Initiating Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
4.2.2 Loss of 2 of 3 fission product barriers with a potential loss of 3rd. barrier, (e.g., loss of primary coolant boundary, clad-failure, and high potential for loss of containment integrity).	1. Loss of coolant accident as identified in Site Area Emergency 4.2.1, <u>and</u> incomplete containment isolation. 2. Loss of coolant accident as identified in Site Area Emergency 4.2.1, and Containment Monitor alarms (EMF51A and/or B) greater than 10^4 R/hr and containment pressure greater than 14.8 psig for at least 2 minutes.	HP/0/B/1009/05, AP/1/A/5500/05, AP/2/A/5500/05
4.2.3 Loss 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.

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

Initiating Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
<p>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.</p> <p>Consider 5 mile downwind evacuation (45° to 90° sector) if large amounts of fission products (greater than Gap activity) are in the containment atmosphere.</p> <p>Recommend sheltering in other parts of the plume exposure Emergency Planning Zone under this circumstance.</p>		

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

Initiating Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
b. For core melt sequences where significant releases from containment are not yet taking place and containment failure leading to a direct atmospheric release is likely in the 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 miles downwind evacuation (45° and 90° sector).		
c. For core melt sequences where large amounts of fission products other than noble gases are in the containment atmosphere and the containment failure is judged imminent, recommend shelter for those areas where evacuation cannot be completed before transport of activity to that location.		

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

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 and estimated evacuation times given current conditions.		
e. Example Sequences:		
1. Small and large LOCA's with failure of ECCS to perform leading to severe core degradation or melt. Ultimate failure of containment likely for melt sequences. (Several hours likely to be available to complete protective actions unless containment is not isolated).	Safety injection signal plus reactor trip and: 1. Safety injection and RHR pumps not running. 2. Flow indications for safety injection read "0". 3. High containment sump level. <u>For Severe Fuel Over Temperature:</u> Greater than 10% failed fuel indicated by greater than 13,000 μ Ci/ml I-131 concentration. <u>For Fuel Melt Conditions:</u> Greater than 5% failed fuel indicated by greater than 11,800 μ Ci/ml I-131 concentration.	

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

Initiating Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
2. Transient initiated by loss of feedwater and condensate systems (principle heat removal system) followed by failure of emergency feedwater system for extended period. (Core melting is possible in several hours with ultimate failure of containment likely if the core melts).	Reactor trip on Lo Lo Steam Generator level and wide range generator levels toward offscale low on all steam generators and emergency feedwater flow indicators indicate "0" flow or emergency feedwater pumps not running and cannot be restored within 30 minutes or >3% reactor power and loss of both main feedwater pumps, manually trip reactor.	AP/1/A/5500/06, AP/2/A/5500/06, EP/1/A/5000/04, EP/2/A/5000/04
3. Transient requiring operation of shutdown systems with failure to scram. Core damage is likely. Additional failure of the core cooling and makeup system would lead to core melt.	Reactor remains critical after all attempts to trip the reactor are complete and flow indicators on safety injection and RHR show "0" flow after initiation (NVP5440, NDP5190, 5191, 5180, 5181, NIP5120, 5450) or safety injection and RHR pumps not running with safety injection initiated.	AP/0/A/5500/34
4. Failure of offsite and onsite power along with total loss of emergency feedwater makeup capability for several hours. Would lead to eventual core melt and likely failure of containment.	Undervoltage alarms on 7KV buses and blackout load sequencers actuated and auxiliary feedwater pump(s) fail to start.	AP/1/A/5500/07, AP/2/A/5500/07

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

Initiating Conditions	Emergency Action Level (EAL)	Emergency Procedure/Document
5. Small LOCA and initially successful ECCS. Subsequent failure of containment heat removal system over several hours could lead to core melt and likely failure of containment.	Pressurizer low pressure reactor trip and pressurizer low pressure safety injection signal and RHR flow indicators show "0" flow after shift to RHR is attempted and for greater than 2 hours (NDP5190, 5191, 5180, 5181) and Reactor Coolant (NC) T ^a is rising, and containment air handling system fails to function.	EP/1/A/5000/02, EP/2/A/5000/02, AP/1/A/5500/05, AP/2/A/5500/05
NOTE: For melt sequences or for failure of containment isolation systems, the likely failure mode is melt through with release of gases.		
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.	As determined by the Shift Supervisor/ Emergency Coordinator	As dictated by plant conditions.

NOTIFICATION CHART
GENERAL EMERGENCY

Notify the following personnel for all Initiating Conditions listed in
Enclosure 4.2. (See Enclosure 4.4 for Telephone Listing)

NOTIFY	NOTIFICATION COMPLETE-INITIAL
Shift Supervisor	
Operations Duty Engineer	
Station Manager	
Nuclear Production Duty Engineer (ENCLOSURE 4.6)	
North Carolina State Warning Point	
Mecklenburg County Warning Point	
Lincoln County Warning Point	
Catawba County Warning Point	
Iredell County Warning Point (ENCLOSURE 4.5)	
Gaston County Warning Point	
Cabarrus County Warning Point	
South Carolina State Warning Point	
N.R.C. via ENS (Red Phone) (See RP/0/A/5700/10)	

TELEPHONE LISTING

- 4.4.1 Operations Duty Engineer (PA System if onsite)
P&T Pager [REDACTED] or home telephone if offsite.
- 4.4.2 Station Manager - M. D. McIntosh
Office - [REDACTED]
Home - [REDACTED] System Speed - [REDACTED]
- 1st. Alternate - G. Cage
Office - [REDACTED]
Home - [REDACTED] System Speed - [REDACTED]
- 2nd. Alternate - T. L. McConnell
Office - [REDACTED]
Home - [REDACTED] System Speed - [REDACTED]
- 3rd. Alternate - D. J. Rains
Office - [REDACTED]
Home - [REDACTED] System Speed - [REDACTED]
- 4th Alternate - L. E. Weaver
Office - [REDACTED]
Home - [REDACTED] System Speed - [REDACTED]
- 4.4.3 Nuclear Production Duty Engineer - [REDACTED] System Speed
P&T Pager [REDACTED]
- 4.4.4 NC State Warning Point, Raleigh - [REDACTED] System Speed
- 4.4.5 Mecklenburg County Warning Point - Primary: Ring Down Phone
Back-up: [REDACTED] System Speed
Back-up: Emergency Radio, Code: [REDACTED]
- 4.4.6 Lincoln County Warning Point - Primary: Ring Down Phone
Back-up: [REDACTED] System Speed
Back-up: Emergency Radio, Code: [REDACTED]
- 4.4.7 Catawba County Warning Point - Primary: Ring Down Phone
Back-up: [REDACTED] System Speed
Back-up: Emergency Radio, Code: [REDACTED]
- 4.4.8 Iredell County Warning Point - Primary: Ring Down Phone
Back-up: [REDACTED] System Speed
Back-up: Emergency Radio, Code: [REDACTED]
- 4.4.9 Gaston County Warning Point - Primary: Ring Down Phone
Back-up: [REDACTED] System Speed
Back-up: Emergency Radio, Code: [REDACTED]

4.4.10 Cabarrus County Warning Point - Primary: Ring Down Phone
Back-up: System Speed
Back-up: Emergency Radio, Code:

4.4.11 South Carolina State Warning Point

NOTE

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

4.4.11 N.R.C. Operation Center, Emergency Notification System (ENS phone)

4.4.12 Radiation Protection Section Department of Human Resources
System Speed

WARNING MESSAGE: NUCLEAR FACILITY TO STATE/LOCAL GOVERNMENT

Instructions:

RP/0/A/5700/04

ENCLOSURE 4.5

PAGE 1 OF 4

A. For Sender:

1. Complete Part I for the Initial Warning Message.
2. Complete Parts I & II for followup messages.

B. For Receiver:

1. Record the date, time and your name in the area below.
2. Authenticate this message by verifying the code word or by calling back to the facility. (See Part I .5)

Time: _____ Date: _____

Message Received By: _____

PART I

1. This is: McGuire Nuclear Station
(Insert name of facility)
2. My name is: _____
3. This message (number):
_____(a) Reports a real emergency.
_____(b) Is an exercise message.
4. My telephone number/extension is: _____
5. Message authentication: _____
(Verify code word or call back to the facility)
6. The class of the emergency is: _____(a) Notification of Unusual Event
_____(b) Alert
_____(c) Site Emergency
_____(d) General Emergency
7. This classification of emergency was declared at: _____ (a.m./p.m.) on _____ (date).
8. The initiating event causing the emergency classification is: Unit affected: 1,2,Both

9. The emergency condition: _____(a) Does not involve the release of radioactive materials from the plant.
_____(b) Involves the potential for a release, but no release is occurring.
_____(c) Involves a release of radioactive material.

10. We recommend the following protective action:

- _____ (a) No protective action is recommended at this time.
- _____ (b) People living in zones _____ remain indoors with the doors and windows closed.
- _____ (c) People in zones _____ evacuate their homes and businesses.
- _____ (d) Pregnant women and children in zones _____ remain indoors with the doors and windows closed.
- _____ (e) Pregnant women and children in zones _____ evacuate to the nearest shelter/reception center.
- _____ (f) Other recommendations: _____

11. There will be:

- _____ (a) A followup message
- _____ (b) No further communications

12. I repeat, this message:

- _____ (a) Reports an actual emergency
- _____ (b) Is an exercise message

PART I APPROVED FOR RELEASE

Signature (Emergency Coordinator)

13. RELAY THIS INFORMATION TO THE PERSONS INDICATED ON YOUR ALERT PROCEDURE FOR AN INCIDENT AT A NUCLEAR FACILITY.

END OF INITIAL WARNING MESSAGE

* Record the Name, Date, Title and the Warning Point notified on Page 4 of 4.

PART II

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 at _____ a.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, or _____ curies/sec.

Windspeed: _____ 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		
5 miles		
10 miles		

Projected Integrated Dose In Rem

Distance	Whole Body	Child Thyroid
Site Boundary		
2 miles		
5 miles		
10 miles		

6. Field measurement of dose rate or contamination (if available): _____

7. Emergency actions underway at the facility include: _____

8. Onsite support needed from offsite organizations: _____

9. Plant status:

(a) Reactor is: not tripped/tripped

(b) Plant is at: _____ % power/hot shutdown/cold shutdown/cooling down

(c) Prognosis is: stable/improving/degrading/unknown.

10. I repeat, this message:

_____ (a) Reports an actual emergency.

_____ (b) Is an exercise message.

PART I and II Approved for Release

Signature (Emergency Coordinator)

11. Do you have any questions?

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

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

Record the name title, date, time, and persons notified per alert procedure. (Receivers)

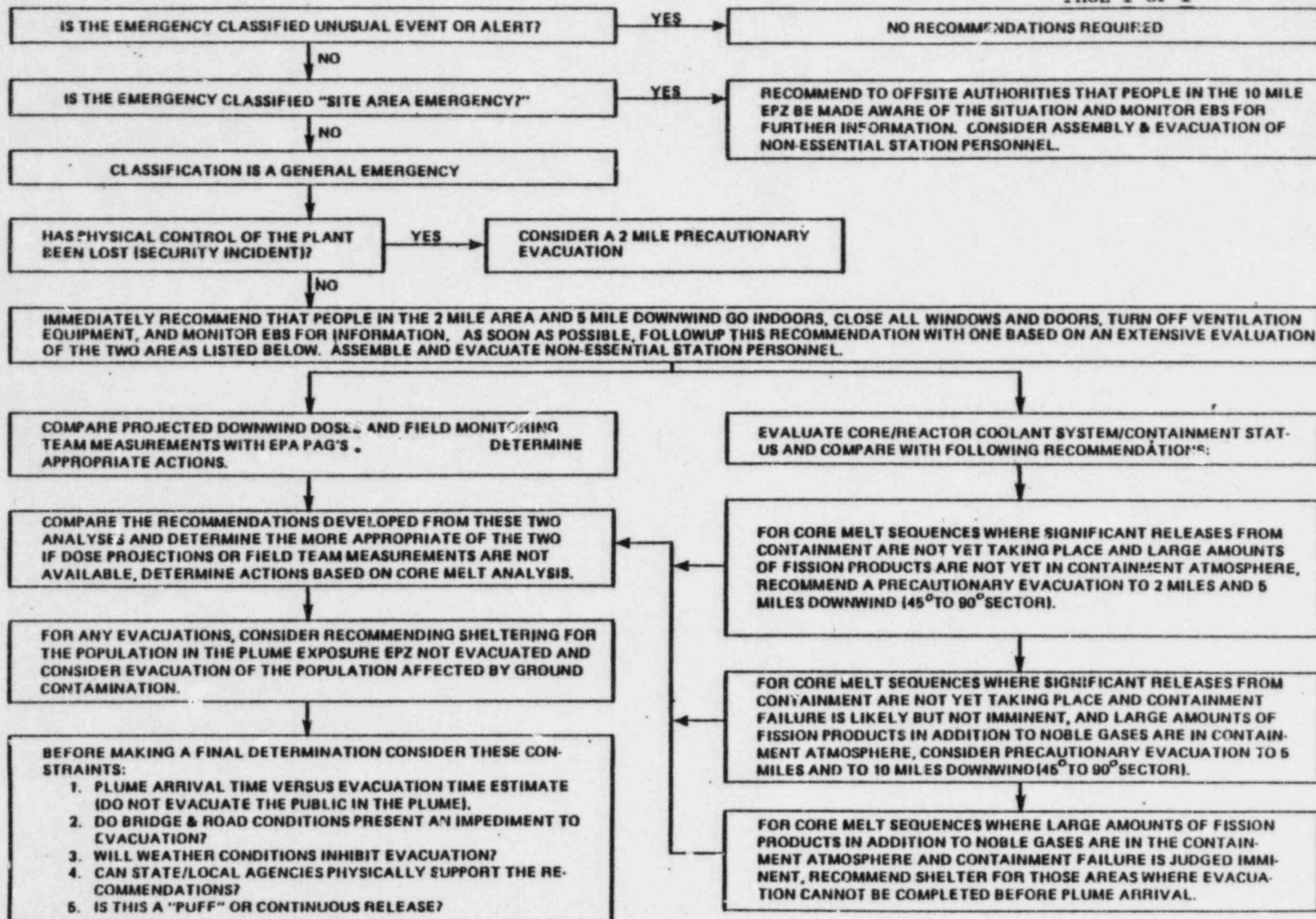
1.	_____	Communicator
	(name)	(title)
	_____	Mecklenburg County
	(date) (time)	(warning point)
2.	_____	Communicator
	(name)	(title)
	_____	Cabarrus County
	(date) (time)	(warning point)
3.	_____	Communicator
	(name)	(title)
	_____	Lincoln County
	(date) (time)	(warning point)
4.	_____	Communicator
	(name)	(title)
	_____	Gaston County
	(date) (time)	(warning point)
5.	_____	Communicator
	(name)	(title)
	_____	Iredell County
	(date) (time)	(warning point)
6.	_____	Communicator
	(name)	(title)
	_____	Catawba County
	(date) (time)	(warning point)
7.	_____	Communicator
	(name)	(title)
	_____	North Carolina
	(date) (time)	(warning point)
8.	_____	Communicator
	(name)	(title)
	_____	South Carolina
	(date) (time)	(warning point)

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

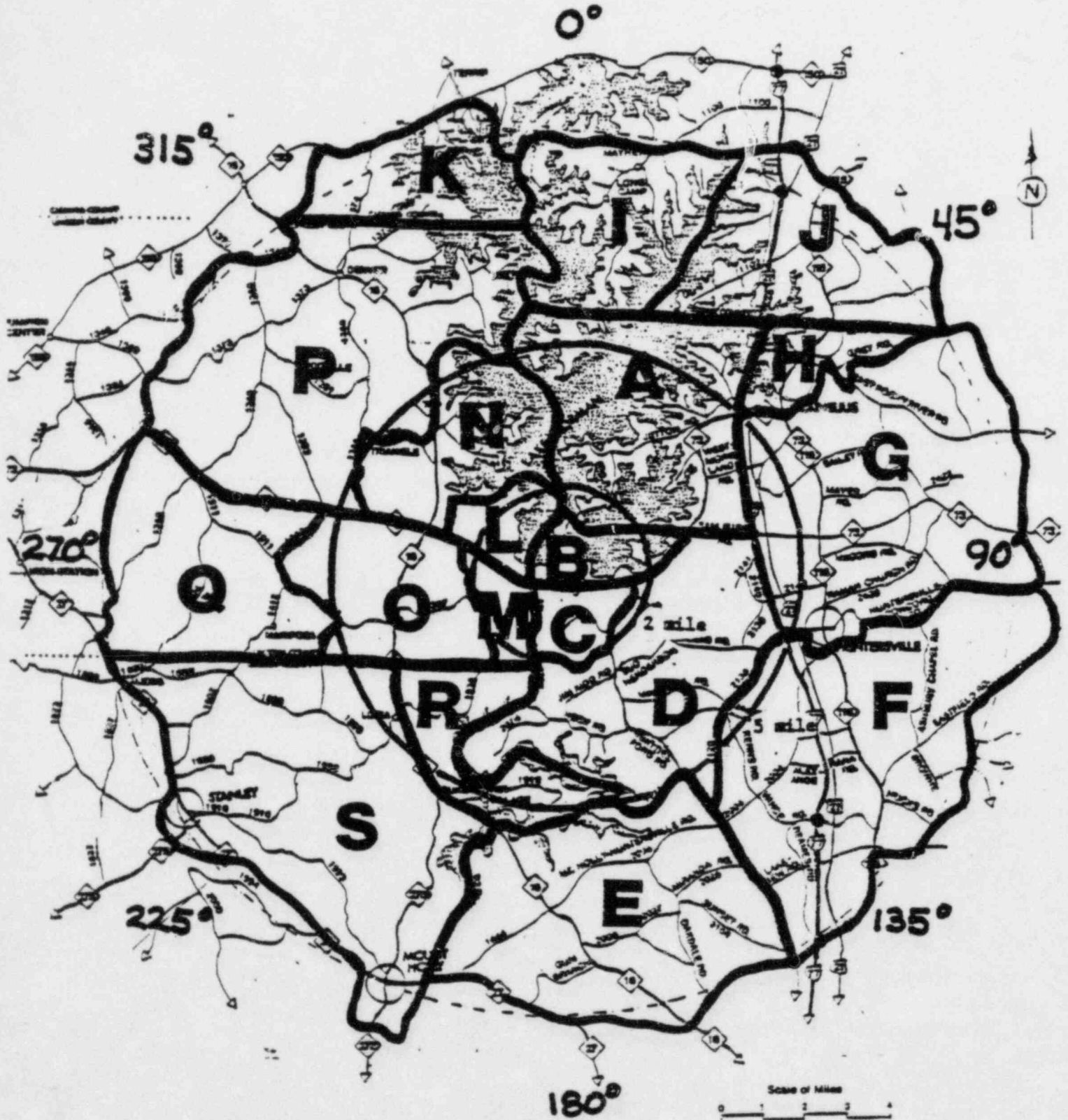
1. This is _____ at McGuire Nuclear Station.
(Name and Title)
2. This is/is not a Drill. An ☐ Unusual Event
☐ Alert
☐ Site Area Emergency
☐ General Emergency
was declared by the Emergency Coordinator at _____ on Unit Number _____.
(Time)
3. Initiating Condition: (Give as close to the emergency procedure description as possible together with station parameters used to determine emergency status)

4. Corrective Measures Being Taken: _____

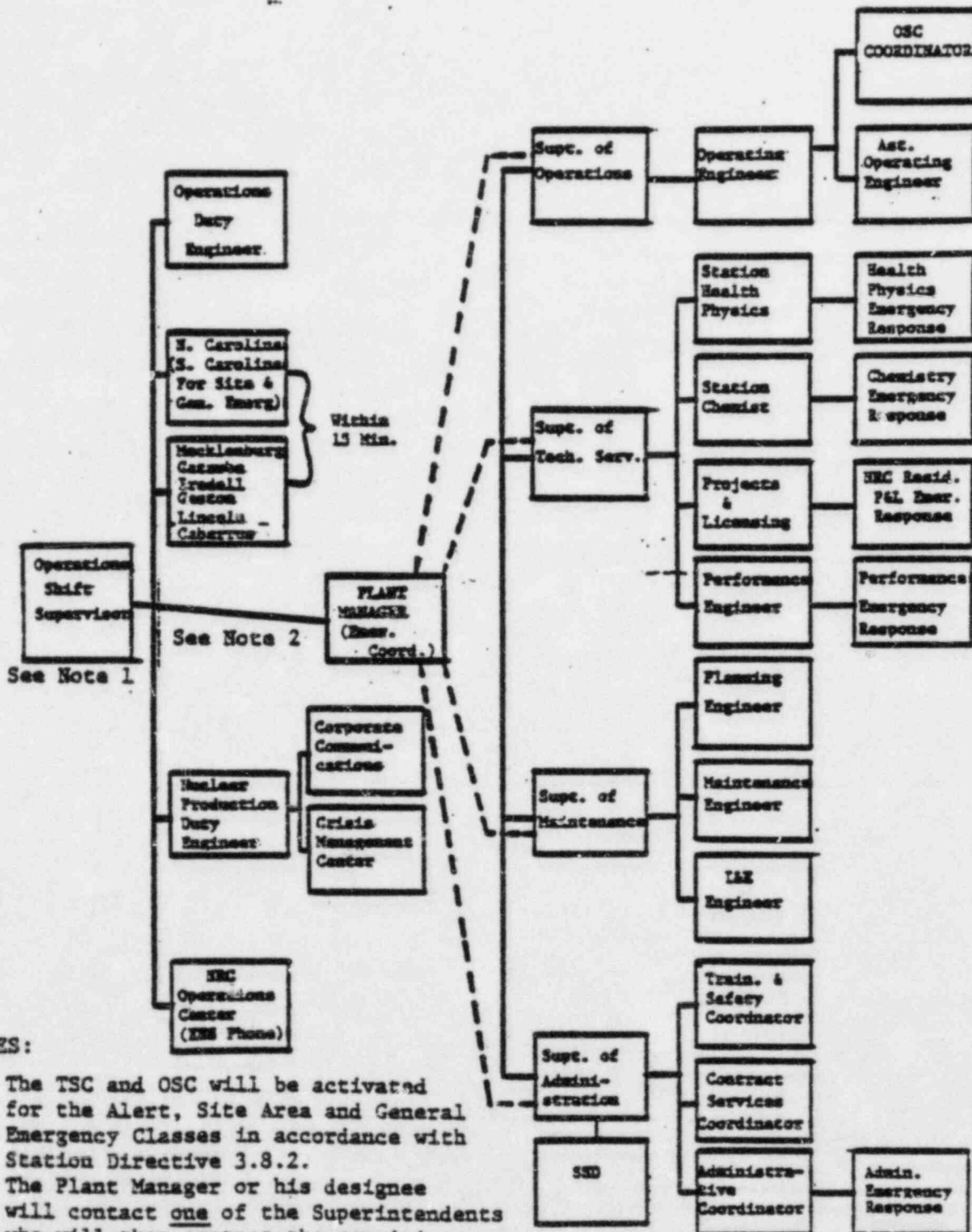
5. There Have/Have Not been any injuries to plant personnel.
6. Release of radioactivity: Is/Is not taking place
7. NRC ☐ Yes ☐ No, State ☐ Yes ☐ No, Counties ☐ Yes ☐ No,
have been notified.
8. The Crisis Management Team should be activated.
9. I can be reached at _____ for follow-up information.
(Telephone Number)
10. Additional Comments: _____



McGUIRE PROTECTIVE ACTION ZONES
(2 and 5 mile radius, inner circles)



NOTIFICATION TREE
(All Plant Emergencies)



NOTES:

1. The TSC and OSC will be activated for the Alert, Site Area and General Emergency Classes in accordance with Station Directive 3.8.2.
2. The Plant Manager or his designee will contact one of the Superintendents who will then contact the remaining Superintendents. Each Superintendent will contact the appropriate personnel in his area of responsibility.

DUKE POWER COMPANY
PROCEDURE PREPARATION
PROCESS RECORD

(1) ID No: RP/0/A/5700/05
Change(s) 0 to
0 Incorporated

(2) STATION: McGuire Nuclear Station

(3) PROCEDURE TITLE: Care and Transportation of Contaminated Injured

Individual(s) From Site to Offsite Medical Facility

(4) PREPARED BY: M. S. Glover DATE: 2/24/84

(5) REVIEWED BY: J. P. Lane DATE: 2/24/84

Cross-Disciplinary Review By: _____ N/R: L

(6) TEMPORARY APPROVAL (IF NECESSARY):

By: _____ (SRO) Date: _____

By: _____ Date: _____

(7) APPROVED BY: Tony L. McConnell Date: 3/1/84

(8) MISCELLANEOUS:

Reviewed/Approved By: _____ Date: _____

Reviewed/Approved By: _____ Date: _____

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

1.0 Symptoms

- 1.1 An individual in need of offsite medical attention and contaminated to levels greater than 5,000 dpm/100cm² Beta-Gamma (150cpm above background using a thin window "pancake" detector and a count rate meter).

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 needed:

- 3.1.1 North Mecklenburg Ambulance Service (See Enclosure 4.3)
3.1.2 North Mecklenburg Rescue Squad (See Enclosure 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 a count rate meter with a thin window probe (RM-14 with HP-210 probe or equivalent) accompany the contaminated injured individual(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, in accordance with Station HP Manual 11.3, 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 RP/0/A/5700/01.
- 3.5 Request the Health Physics Shift person to ensure Health Physics Management is aware of the emergency and to dispatch appropriate Senior Health Physics personnel to Charlotte Memorial Hospital.
- 3.6 Notify the Corporate Communications Department about the emergency and request them to dispatch a representative to Charlotte Memorial Hospital. (See Enclosure 4.3)
- 3.7 Medical Assistance for contaminated and injured persons is provided by Charlotte Memorial Hospital.
 - 3.7.1 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).
 - 3.7.2 Charlotte Memorial Hospital may call back to the station for verification.
- 3.8 Back-up Medical Facility
 - 3.8.1 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).

- 3.9 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.

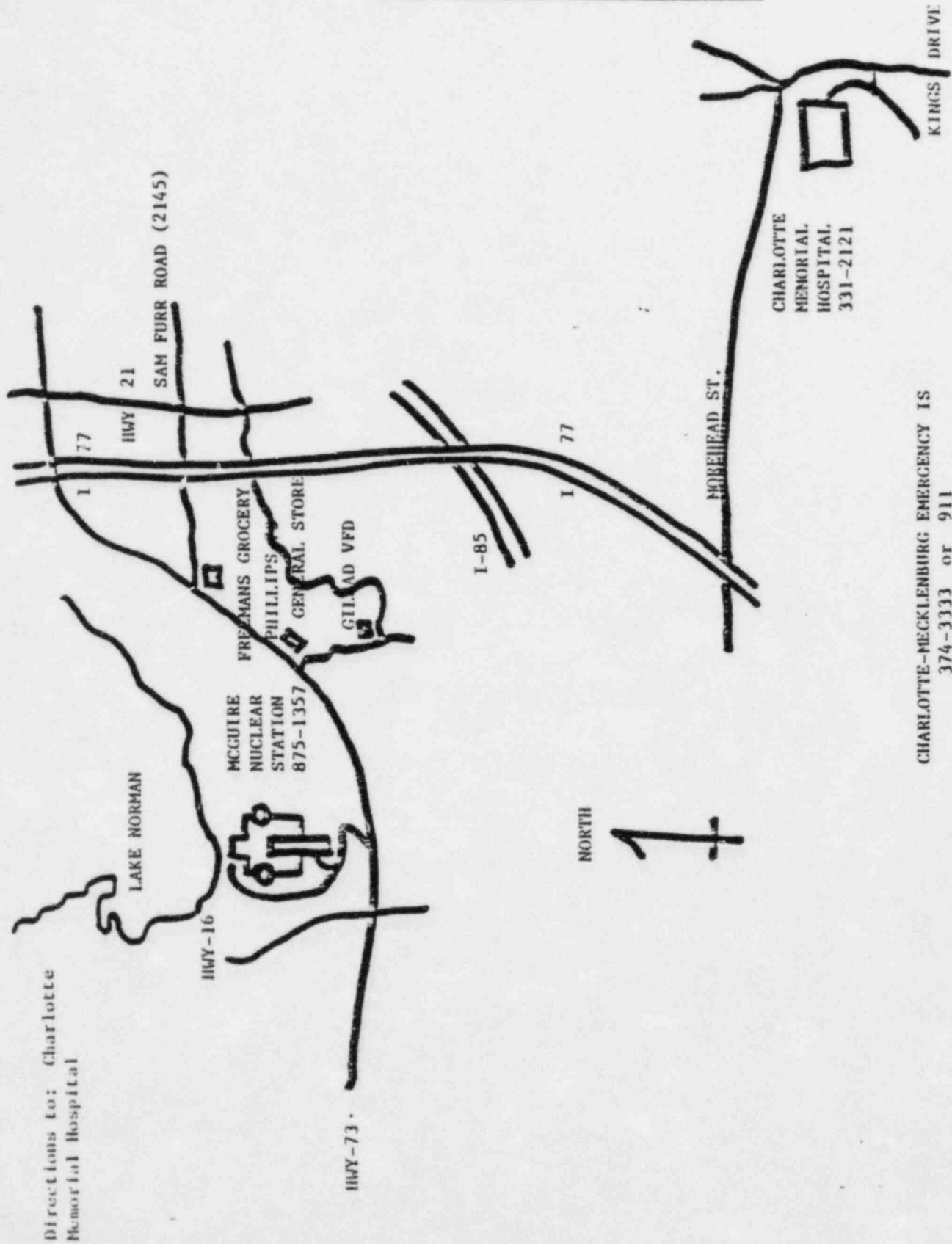
NOTE: The Ambulance Service or Rescue Squad will maintain radio communications with the medical facility while enroute.

- 3.10 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.

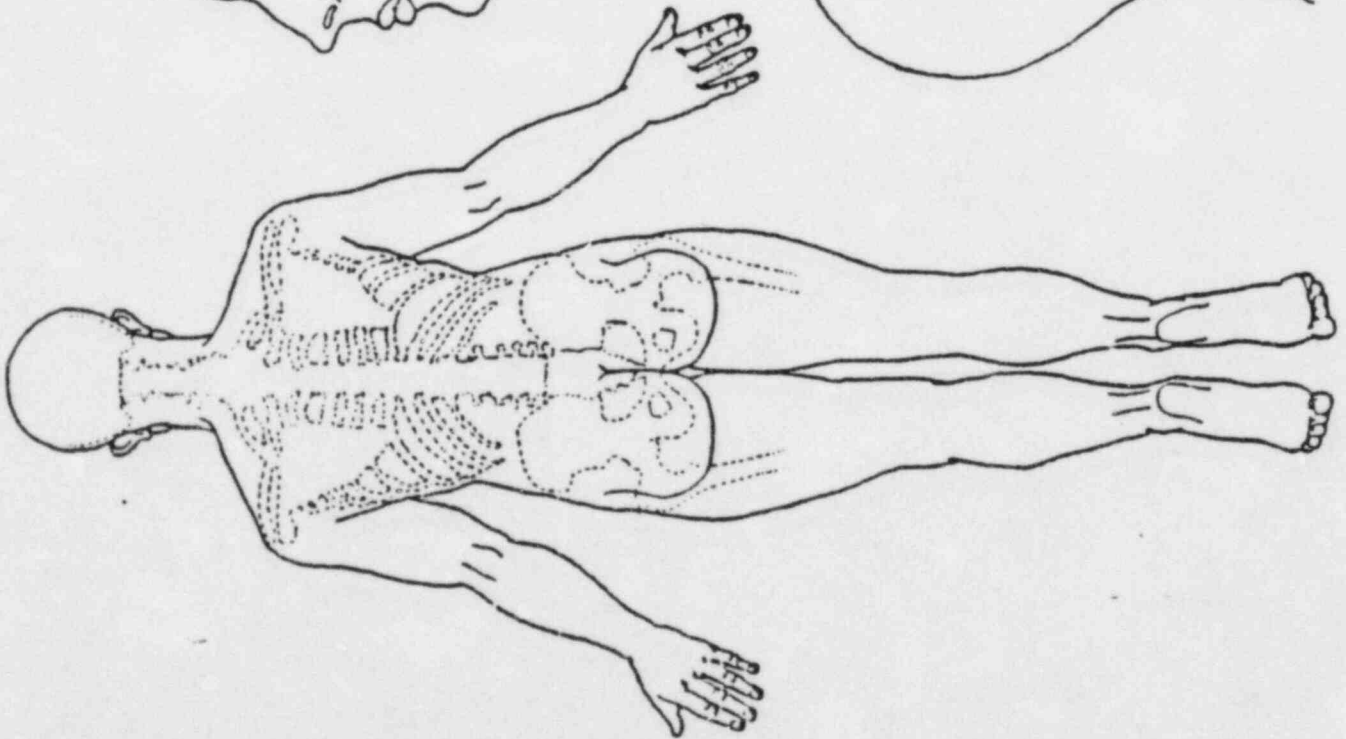
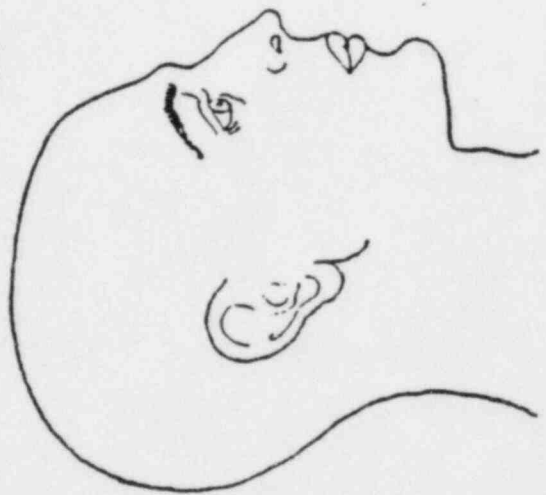
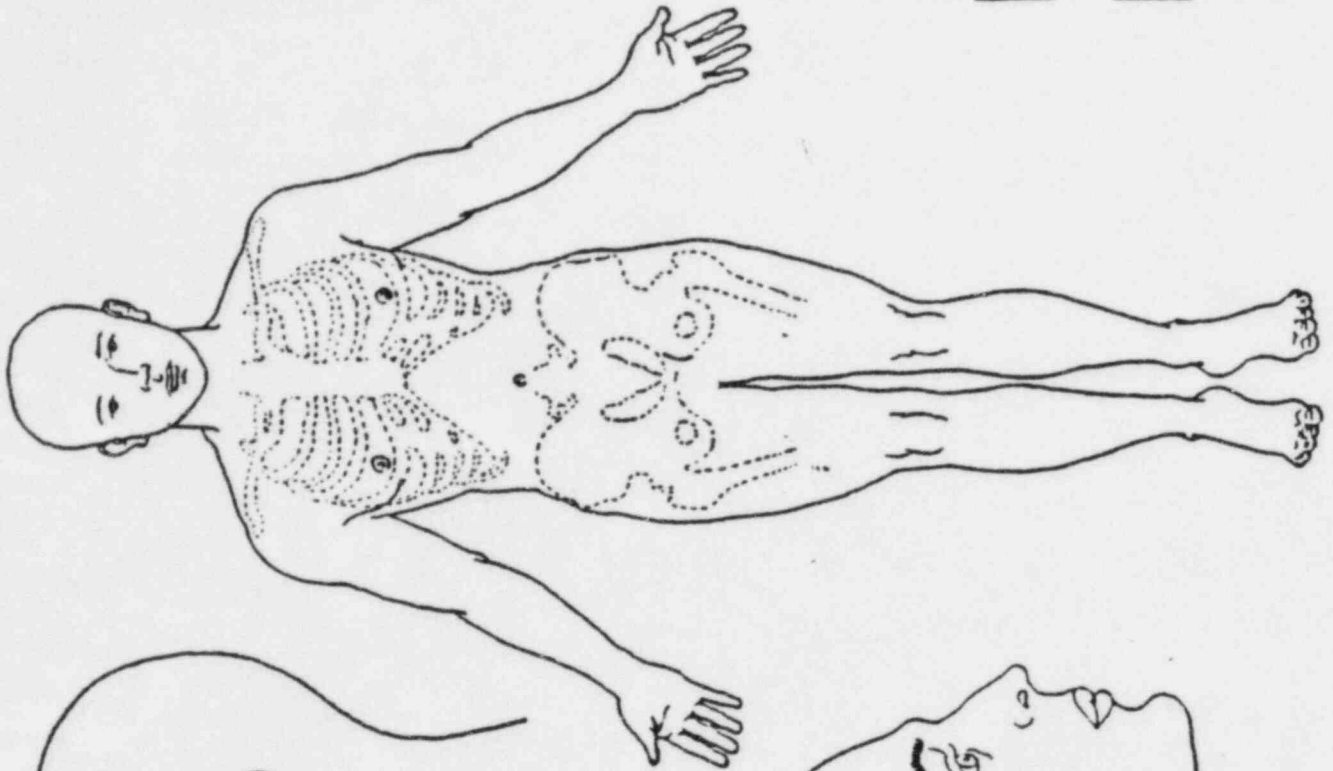
4.0 Enclosures

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

MAP TO CHARLOTTE MEMORIAL HOSPITAL



CHARLOTTE-MECKLENBURG EMERGENCY IS
374-3333 or 911



TELEPHONE LIST

- 4.3.1 Health Physics (Plant Phone) (Plant Page)
- 4.3.2 Charlotte Memorial Hospital E.R.
- 4.3.3 Radiation Emergency Assistance Center Training Site (REACTS)
- 4.3.4 North Mecklenburg Ambulance Service
- 4.3.5 North Mecklenburg Rescue Squad
- 4.3.6 Corporate Communications (24 hour answering service)

DUKE POWER COMPANY

P.O. BOX 33189
CHARLOTTE, N.C. 28242

HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

TELEPHONE
(704) 373-4531

March 14, 1984

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Ms. E. G. Adensam, Chief
Licensing Branch No. 4

Re: McGuire Nuclear Station
Docket Nos. 50-369, 50-370

Dear Sir:

Enclosed for NRC Staff use and review are two copies of the latest revision to the following McGuire Nuclear Station Emergency Plan Implementing Procedures:

- 1) RP/O/A/5700/01 - Notification of Unusual Event (Changes 0-0, March 2, 1984)
- 2) RP/O/A/5700/02 - Alert (Changes 0-0, March 2, 1984)
- 3) RP/O/A/5700/03 - Site Area Emergency (Changes 0-0, March 2, 1984)
- 4) RP/O/A/5700/04 - General Emergency (Changes 0-0, March 2, 1984)
- 5) RP/O/A/5700/05 - Core and Transportation of Contaminated Injured Individual(s) from Site to Offsite Medical Facility (Changes 0-0, March 1, 1984)
- 6) Station Directive 3.8.2 - Enclosure 2 (Revision 8, February 24, 1984)

Please delete privacy material in the form of personal telephone numbers prior to placing any material in the public document room, specifically:

- 1) Enclosure - 4.4, pages 1 of 2, 2 of 2
- 2) Enclosure - 4.4, pages 1 of 2, 2 of 2
- 3) Enclosure - 4.4, pages 1 of 2, 2 of 2
- 4) Enclosure - 4.4, pages 1 of 2, 2 of 2
- 6) Enclosure - 2, pages 1 of 5 to 5 of 5

These revisions are being submitted in accordance with 10 CFR 50.54(q) and do not decrease the effectiveness of the Emergency Plan Implementing Procedures.

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CF ADDCK 05000329
-6F

[Handwritten signature]
Xmas '11

Mr. Harold R. Denton
Attention: Ms. E. G. Adensam
March 14. 1984
Page 2

By copy of this letter, one copy of each of the above documents is being provided to the NRC, Region II.

Very truly yours,

H.B. Tucker
Hal B. Tucker

WHM:glb

Enclosures

cc: (w/encls.)
Mr. James P. O'Reilly, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

(w/o encls.)
Mr. W. T. Orders
NRC Resident Inspector
McGuire Nuclear Station



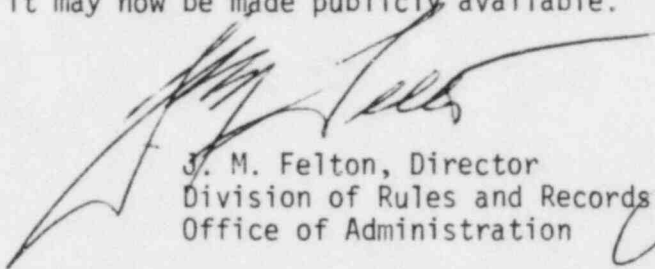
UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

April 3, 1984

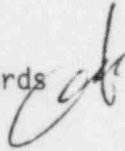
50-369/370 McGuire

MEMORANDUM FOR: Chief, Document Management Branch, TIDC
FROM: Director, Division of Rules and Records, ADM
SUBJECT: REVIEW OF UTILITY EMERGENCY PLAN DOCUMENTATION

The Division of Rules and Records has reviewed the attached document and has determined that it may now be made publicly available.



J. M. Felton, Director
Division of Rules and Records
Office of Administration



Attachment: As stated