Duke Energy

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February 1, 2000

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Re: McGuire Nuclear Station
Docket Nos. 50-369 and 50-370
Emergency Plan Implementing Procedures

Enclosed for NRC staff use and review are the following Emergency Plan Implementing Procedures:

EPIP Index Page 1
EPIP Index Page 2
EPIP Index Page 3
HP/0/B/1009/010
RP/0/A/5700/010
RP/0/A/5700/015
SR/0/B/2000/002

No privacy information is contained in these procedures. This correspondence does not contain any regulatory commitments.

Two copies are also being forwarded to NRC Region II, Atlanta, Georgia.

Very truly yours,

H. B. Barron
Vice President
McGuire Site

HBB:jcm

Attachments

A045 1/1

xc: (w/attachment)
Mr. Luis Reyes,
Regional Administrator
U.S. Nuclear Regulatory Commission
Region II
61 Forsyth St., SW, Suite 23T85
Atlanta, Georgia 30303

(w/o attachment)
NRC Resident Inspector

Frank Rinaldi, USNRC

Lee Keller (EC05O)

Electronic Licensing Library (EC05O)

EP File 111

DUKE

McGUIRE NUCLEAR SITE

EMERGENCY PLAN IMPLEMENTING PROCEDURES

APPROVED: Bryan Dolan
SAFETY ASSURANCE MANAGER

DATE APPROVED 1/24/00

EPIP Index Page 1	Dated 01/24/2000
EPIP Index Page 2	Dated 01/24/2000
EPIP Index Page 3	Dated 01/24/2000
HP/0/B/1009/010	Dated 01/24/2000
RP/0/A/5700/010	Dated 01/24/2000
RP/0/A/5700/015	Dated 01/24/2000
SR/0/B/2000/002	Dated 01/24/2000

EMERGENCY PLAN IMPLEMENTING PROCEDURES INDEX

PROCEDURE #	TITLE	REVISION NUMBER
RP/0/A/5700/000	Classification of Emergency	Rev. 004
RP/0/A/5700/001	Notification of Unusual Event	Rev. 012
RP/0/A/5700/002	Alert	Rev. 012
RP/0/A/5700/003	Site Area Emergency	Rev. 012
RP/0/A/5700/004	General Emergency	Rev. 012
RP/0/A/5700/05	Care and Transportation of Contaminated Injured Individual(s) From Site to Offsite Medical Facility	DELETE
RP/0/A/5700/006	Natural Disasters	Rev. 005
RP/0/A/5700/007	Earthquake	Rev. 006
RP/0/A/5700/008	Release of Toxic or Flammable Gases	Rev. 003
RP/0/A/5700/09	Collisions/Explosions	Rev. 000
RP/0/A/5700/010	NRC Immediate Notification Requirements	Rev. 010
RP/0/A/5700/011	Conducting a Site Assembly, Site Evacuation or Containment Evacuation	Rev. 005
RP/0/A/5700/012	Activation of the Technical Support Center (TSC)	Rev. 016
RP/0/A/5700/013	Activation of the Emergency Operations Facility (EOF)	DELETE
RP/0/A/5700/14	Emergency Telephone Directory	DELETE
RP/0/A/5700/015	Notifications to the State and Counties from the EOF	Rev. 008
RP/0/A/5700/16	EOF Commodities and Facilities Procedure	DELETE
RP/0/A/5700/17	Emergency Data Transmittal System Access	DELETE
RP/0/A/5700/018	Notifications to the State and Counties from the TSC	Rev. 005
RP/0/A/5700/019	Core Damage Assessment	Rev. 003
RP/0/A/5700/020	Activation of the Operations Support Center (OSC)	Rev. 010
RP/0/A/5700/21	EOF Access Control	DELETE
RP/0/A/5700/022	Spill Response Procedure	Rev. 009
RP/0/A/5700/024	Recovery and Reentry Procedure	Rev. 001
RP/0/A/5700/026	Operations/Engineering Technical Evaluations in the Technical Support Center (TSC)	Rev. 000
RP/0/B/5700/023	Community Relations Emergency Response Plan	Rev. 000
OP/0/B/6200/090	PALSS Operation for Accident Sampling	Rev. 009

PROCEDURE #	TITLE	REVISION NUMBER
HP/0/B/1009/002	Alternative Method for Determining Dose Rate Within the Reactor Building	Rev. 002
HP/0/B/1009/003	Recovery Plan	Rev. 002
HP/0/B/1009/05	Initial Evaluation of Protective Action Guides Due to Abnormal Plant Conditions	DELETED
HP/0/B/1009/006	Procedure for Quantifying High Level Radioactivity Releases During Accident Conditions	Rev. 004
HP/0/B/1009/010	Releases of Radioactive Effluents Exceeding Selected Licensee Commitments	Rev. 005
HP/1/B/1009/015	Unit 1 Nuclear Post-Accident Containment Air Sampling System Operating Procedure	Rev. 003
HP/2/B/1009/015	Unit 2 Nuclear Post-Accident Containment Air Sampling System Operating Procedure	Rev. 003
HP/0/B/1009/016	Distribution of Potassium Iodide Tablets in the Event of a Radioiodine Release	Rev. 001
HP/0/B/1009/020	Manual Procedure for Offsite Dose Projections	DELETED
HP/0/B/1009/021	Estimating Food Chain Doses Under Post-Accident Conditions	Rev. 001
HP/0/B/1009/022	Accident and Emergency Response	Rev. 001
HP/0/B/1009/023	Environmental Monitoring for Emergency Conditions	Rev. 002
HP/0/B/1009/024	Personnel Monitoring for Emergency Conditions	Rev. 000
HP/0/B/1009/029	Initial Response On-Shift Dose Assessment	Rev. 004
SH/0/B/2005/001	Emergency Response Offsite Dose Projections	Rev. 000
SH/0/B/2005/002	Protocol for the Field Monitoring Coordinator During Emergency Conditions	Rev. 000
SR/0/B/2000/01	Standard Procedure for Public Affairs Response to the Emergency Operations Facility	Rev. 001
SR/0/B/2000/002	Standard Procedure for EOF Commodities and Facilities	Rev. 001
SR/0/B/2000/003	Activation of the Emergency Operations Facility	Rev. 003

EMERGENCY PLAN IMPLEMENTING PROCEDURES INDEX

PROCEDURE #	TITLE		REVISION NUMBER
McGuire Site Directive 280	Site Assembly/Accountability and Evacuation/Containment Evacuation		DELETED
EP Group Manual	Section 1.1	Emergency Organization	Rev. 017
MNS RP Manual:	Section 18.1	Accident and Emergency Response	DELETED
	Section 18.2	Environmental Monitoring for Emergency Conditions	DELETED
	Section 18.3	Personnel Monitoring for Emergency Conditions	DELETED
	Section 18.4	Planned Emergency Exposure	DELETED

(R06-97)

Duke Power Company
PROCEDURE PROCESS RECORD

(1) ID No. **HP/0/B/1009/010**
Revision No. **005**

PREPARATION

(2) Station **McGuire Nuclear Station**

(3) Procedure Title **Releases of Radioactive Effluents Exceeding Selected Licensee Commitments**

(4) Prepared By G F Terrell Date 1/10/00

(5) Requires 10CFR50.59 evaluation?

- ☑ Yes (New procedure or revision with major changes)
- ☐ No (Revision with minor changes)
- ☐ No (To incorporate previously approved changes)

(6) Reviewed By Donald R Miller (QR) Date 1-10-00

Cross-Disciplinary Review By _____ (QR) NA DRM Date 1-10-00

Reactivity Mgmt. Review By _____ (QR) NA DRM Date 1-10-00

(7) Additional Reviews

Reviewed By K. L. Murray Date 1-11-00

Reviewed By _____ Date 1/24/2000

(8) Temporary Approval (*if necessary*)

By _____ (SRO/QR) Date _____

By _____ (QR) Date _____

(9) Approved By _____ Date 1/24/00

PERFORMANCE (Compare with Control Copy every 14 calendar days while work is being performed.)

(10) Compared with Control Copy _____ Date _____

Compared with Control Copy _____ Date _____

Compared with Control Copy _____ Date _____

(11) Date(s) Performed _____

Work Order Number (WO#) _____

COMPLETION

(12) Procedure Completion Verification

- ☐ Yes ☐ NA Check lists and/or blanks initialed, signed, dated, or filled in NA, as appropriate?
- ☐ Yes ☐ NA Listed enclosures attached?
- ☐ Yes ☐ NA Data sheets attached, completed, dated, and signed?
- ☐ Yes ☐ NA Charts, graphs, etc. attached dated, identified, and marked?
- ☐ Yes ☐ NA Procedure requirements met?

Verified By _____ Date _____

(13) Procedure Completion Approved _____ Date _____

(14) Remarks (*Attach additional pages, if necessary*)

Duke Power Company McGuire Nuclear Station **Releases of Radioactive Effluents Exceeding Selected Licensee Commitments** **Reference Use**	Procedure No. HP/**0**/B/1009/010 Revision No. 005 Electronic Reference No. MC0045G3

Releases of Radioactive Effluents Exceeding Selected Licensee Commitments

1. Purpose

1.1 This procedure describes the method for determining if Environmental Protection Agency (EPA) Reportable Quantities have been exceeded when effluent liquid or gaseous release rate limits have been exceeded.

1.2 This procedure also provides direction for the sampling of affected waterways and local area water supply intakes following an accidental liquid release, and the subsequent actions to be taken if the concentration exceeds Selected Licensee Commitments (SLCS).

1.3 The level of use for this procedure is "Reference Use".

2. References

2.1 HP/0/B/1009/023, Environmental Monitoring for Emergency Conditions

2.2 10CFR20 Appendix B, Table 2, Column 2

2.3 40CFR302, EPA requirements for Reportable Quantities of Radionuclides

2.4 McGuire Nuclear Station, Selected Licensee Commitment Manual Section 16.11

3. Limits and Precautions

3.1 This procedure shall be used in an emergency situation which could result in shutdown of area water supply intakes.

3.2 The Radiation Protection Manager (RPM)/qualified designee shall authorize any offsite recommendations as a result of the use of this procedure.

3.3 This procedure should be used in conjunction with HP/0/B/1009/023, Environmental Monitoring for Emergency Conditions (Reference 2.1). Sampling of affected waterways and intakes should be requested through the Field Monitoring Coordinator

3.4 Verify counting equipment to be used has been calibrated and daily response checks have been performed.

3.5 This procedure is written for use under abnormal radiological conditions. Appropriate radiological controls shall be observed during sample collection.

4. Procedure

4.1 **Reportable Quantity Calculations** - This calculation is required only if the SLCS (Reference 2.4) release rate limits for liquid or gaseous releases are exceeded.

4.1.1 Obtain samples that are most representative of the release pathway of concern, i.e., Unit Vent, tank contents, sump contents, etc.

4.1.2 Based upon the event, determine total volume of liquid or gaseous effluent in gallons or ft^3.

4.1.3 Convert the activity concentration for each nuclide to Curies using the following conversion factors and list them on Enclosure 5.1.

a). Liquids µCi/ml x total Vol. (gal.) x $\left(3.785E-3 \ \frac{Ci \cdot ml}{\mu Ci \cdot gal}\right) = Ci$

b). Gaseous µCi/ml x total Vol. (ft^3) x $\left(2.832E-2 \ \frac{Ci \cdot ml}{\mu Ci \cdot ft^3}\right) = Ci$

4.1.4 Divide each nuclides activity in curies by its respective RQ value from Enclosure 5.2. Add the ratio values in column 5 (Enclosure 5.1) to determine the sum of the ratios, if < 1 the release is not reportable. If ≥ 1 the release is reportable per 40CFR302 (Reference 2.3).

4.1.5 If the release is reportable, contact the Radiation Protection Manager/qualified designee and Operations Shift Manager.

4.1.6 The release of a Reportable Quantity is reportable to the EPA as soon as possible. Environmental Management Personnel shall make this report. An Environmental Management reporting hotline is available 24 hours a day at extension 4232. Directions concerning contact of duty Environmental Management personnel, via offsite pager, will be given if the call is made after normal working hours.

4.2 Radionuclide Concentration at Area Water Supply Intakes

4.2.1 Radiation Protection shall collect and evaluate samples per Reference 2.1.

4.2.2 Radiation Protection shall determine the discharge point concentration from EMF data and/or environmental samples.

4.2.3 If sampling data indicates that a release through the RC System to Lake Norman is likely to exceed 10 times the limits specified in 10CFR20, Appendix B, Table 2, Column 2, (Reference 2.2) at affected area water intakes, the Emergency Coordinator shall:

4.2.3.1 Have the Control Room request maximum possible water flow at Cowans Ford Hydro Station from System Load Dispatcher.

4.2.3.2 Notify the area water supply pumping stations to cease pumping operations until the contamination levels have passed or have been diluted to within acceptable limits (Enclosure 5.3). For any unknown mixture in water, the limit is 1E-7 μCi/ml or 10 times the effluent concentrations specified in 10CFR20, Table 2, Column 2 for radionuclides other than dissolved or entrained noble gases.

4.2.4 If sampling data indicates that a release through the Conventional Waste Water Treatment (CWWT) to the Catawba River is likely to exceed 10 times the limits specified in 10CFR20, Appendix B, Table 2, Column 2 (Reference 2.2) limits at the Charlotte or Mt. Holly Water intakes, the Emergency Coordinator shall:

4.2.4.1 Have the Control Room request minimum water flow at Cowans Ford Hydro Station and Mountain Island Dam from System Load Dispatcher.

A. Transit time to Charlotte and Mt. Holly Water intakes is approximately 79 days with the minimum flow (80 cfs) through Cowans Ford.

4.2.4.2 Notify both the Charlotte and Mt. Holly Water Departments that a release of radioactive materials has occurred into the Catawba River and that sampling and evaluation of samples is being undertaken (Enclosure 5.3).

4.2.4.3 In the event that sampling confirms that contamination levels at the Charlotte or Mt. Holly intake will exceed 10 times the limits specified in 10CFR20, Appendix B, Table 2, Column 2, (Reference 2.2) recommend the Charlotte and Mt. Holly Water Departments cease pumping operations during the period of time contaminated water supplies are passing the respective pumping station intakes.

4.2.5 The people notified in the appropriate emergency procedures shall be responsible to decide what protective measure shall be taken in the interest of public health and safety. The state agency is responsible for appropriate long-term public health action (North Carolina Department of Crime Control and Public Safety).

4.2.6 Actual field measurements of exposure (TEDE) shall be compared to dose projections by the Radiation Protection Manager or the Radiological Assessment Manager.

5. Enclosures

5.1 EPA Reportable Quantity Worksheet

5.2 EPA RQ Values

5.3 Emergency Plan Implementing Procedures Telephone List.

Enclosure 5.1

EPA Reportable Quantity Worksheet

(1) Nuclide	(2) µCi/ml	(3) Ci		(4) RQ		(5) Ratio
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
				Sum of Ratios	=	

Reportable Yes ☐ No ☐

Total Volume Released ________________ gallons or ft³

Conversion Factors:

1) $$\textit{Liquids}\ \mu Ci/ml \times \textit{total Vol.(gal.)} \times 3.785E-3\ \frac{Ci \cdot ml}{\mu Ci \cdot gal} = Ci$$

2) $$\textit{Gaseous}\ \mu Ci/ml \times \textit{total Vol.}(ft^3) \times 2.832E-2\ \frac{Ci \cdot ml}{\mu Ci \cdot ft^3} = Ci$$

Enclosure 5.2
EPA RQ Values *

RQ = 1000 Curies	RQ - 100 Curies	RQ = 10 Curies	RQ = 1 Curie	RQ = 0.1 Curies	RQ = 0.01 Curies
F-18	H-3	Na-24	Ru-106	I-133	I-131
Cr-51	Be-7	Ar-41	Sn-126	Sr-90	
Cu-64	Cl-38	Mn-54	I-130		
Zn-69	Fe-55	Co-58	Cs-134		
Br-83	Mn-56	Fe-59	Cs-137		
Kr-83m	Co-57	Co-60	Ce-144		
Kr-85	Ni-63	Zn-65			
Rb-88	Ni-65	Se-75			
Rb-89	Zn-69m	Br-82			
Y-91m	Br-84	Rb-86			
Tc-101	Kr-85m	Ru-86			
In-113m	Sr-92	Kr-87			
Te-127	Y-92	Kr-88			
Te-129	Nb-95m	Sr-89			
Te-131	Nb-97	Y-90			
Xe-131m	Mo-99	Y-91			
Xe-133	Tc-99m	Sr-91			
Xe-133m	Ru-105	Nb-95			
Te-134	Cd-115	Zr-95			
Ba-139	In-115m	Zr-97			
Ba-141	I-134	Ru-103			
Ba-142	Xe-135	Ag-108m			
Pr-144	Cs-138	Ag-110m			
	La-142	Sn-113			
	Ce-143	Cd-115m			
	W-187	Sb-122			
	Np-239	Sb-123			
		Sb-124			
		Sb-125			
		Te-125m			
		Sb-126			
		Te-127m			
		Te-129m			
		Te-131m			
		I-132			
		Te-132			
		Ba-133			
		I-135			
		Xe-135m			
		Cs-136			
		Xe-138			
		Ba-140			
		La-140			
		Ce-141			
		Pr-143			

* No values are listed for Kr-89, Kr-90, and Xe-137. For nuclides not listed above, refer to 40CFR302, Appendix B (Reference 2.3)

Emergency Plan Implementing Procedures
Telephone List

CHARLOTTE WATER	
River Pumping Station	399-2331
Administration Building	399-2221
Plant Supervision	399-2426 (Work)
Emergency Radio Call Sign	KVB 704

MT. HOLLY WATER	
Pumping Station	822-2928
Chief Operator	822-2928 822-1526 (Home)
City Manager	827-3931 (Office)

RADIATION PROTECTION	
Shift Technician	4282 / 2892
	Beeper #600

(R06-97)

Duke Power Company
PROCEDURE PROCESS RECORD

(1) ID No. **HP/0/B/1009/010**
Revision No. **005**

PREPARATION

(2) Station **McGuire Nuclear Station**

(3) Procedure Title **Releases of Radioactive Effluents Exceeding Selected Licensee Commitments**

(4) Prepared By G F Terrell Date 1/10/00

(5) Requires 10CFR50.59 evaluation?

- ☑ Yes (New procedure or revision with major changes)
- ☐ No (Revision with minor changes)
- ☐ No (To incorporate previously approved changes)

(6) Reviewed By Donald R Miller (QR) Date 1-10-00

Cross-Disciplinary Review By _____ (QR) NA DRM Date 1-10-00

Reactivity Mgmt. Review By _____ (QR) NA DRM Date 1-10-00

(7) Additional Reviews

Reviewed By K. L. Murray Date 1-11-00

Reviewed By _____ Date 1/24/2000

(8) Temporary Approval (*if necessary*)

By _____ (SRO/QR) Date _____

By _____ (QR) Date _____

(9) Approved By _____ Date 1/24/00

PERFORMANCE (Compare with Control Copy every 14 calendar days while work is being performed.)

(10) Compared with Control Copy _____ Date _____

Compared with Control Copy _____ Date _____

Compared with Control Copy _____ Date _____

(11) Date(s) Performed _____

Work Order Number (WO#) _____

COMPLETION

(12) Procedure Completion Verification

- ☐ Yes ☐ NA Check lists and/or blanks initialed, signed, dated, or filled in NA, as appropriate?
- ☐ Yes ☐ NA Listed enclosures attached?
- ☐ Yes ☐ NA Data sheets attached, completed, dated, and signed?
- ☐ Yes ☐ NA Charts, graphs, etc. attached dated, identified, and marked?
- ☐ Yes ☐ NA Procedure requirements met?

Verified By _____ Date _____

(13) Procedure Completion Approved _____ Date _____

(14) Remarks (*Attach additional pages, if necessary*)

Duke Power Company McGuire Nuclear Station **Releases of Radioactive Effluents Exceeding Selected Licensee Commitments** **Reference Use**	Procedure No. HP/**0**/B/1009/010 Revision No. 005 Electronic Reference No. MC0045G3

Releases of Radioactive Effluents Exceeding Selected Licensee Commitments

1. Purpose

1.1 This procedure describes the method for determining if Environmental Protection Agency (EPA) Reportable Quantities have been exceeded when effluent liquid or gaseous release rate limits have been exceeded.

1.2 This procedure also provides direction for the sampling of affected waterways and local area water supply intakes following an accidental liquid release, and the subsequent actions to be taken if the concentration exceeds Selected Licensee Commitments (SLCS).

1.3 The level of use for this procedure is "Reference Use".

2. References

2.1 HP/0/B/1009/023, Environmental Monitoring for Emergency Conditions

2.2 10CFR20 Appendix B, Table 2, Column 2

2.3 40CFR302, EPA requirements for Reportable Quantities of Radionuclides

2.4 McGuire Nuclear Station, Selected Licensee Commitment Manual Section 16.11

3. Limits and Precautions

3.1 This procedure shall be used in an emergency situation which could result in shutdown of area water supply intakes.

3.2 The Radiation Protection Manager (RPM)/qualified designee shall authorize any offsite recommendations as a result of the use of this procedure.

3.3 This procedure should be used in conjunction with HP/0/B/1009/023, Environmental Monitoring for Emergency Conditions (Reference 2.1). Sampling of affected waterways and intakes should be requested through the Field Monitoring Coordinator

3.4 Verify counting equipment to be used has been calibrated and daily response checks have been performed.

3.5 This procedure is written for use under abnormal radiological conditions. Appropriate radiological controls shall be observed during sample collection.

4. Procedure

4.1 **Reportable Quantity Calculations** - This calculation is required only if the SLCS (Reference 2.4) release rate limits for liquid or gaseous releases are exceeded.

4.1.1 Obtain samples that are most representative of the release pathway of concern, i.e., Unit Vent, tank contents, sump contents, etc.

4.1.2 Based upon the event, determine total volume of liquid or gaseous effluent in gallons or ft^3.

4.1.3 Convert the activity concentration for each nuclide to Curies using the following conversion factors and list them on Enclosure 5.1.

a). Liquids µCi/ml x total Vol. (gal.) x $\left(3.785E-3 \ \frac{Ci \cdot ml}{\mu Ci \cdot gal}\right) = Ci$

b). Gaseous µCi/ml x total Vol. (ft^3) x $\left(2.832E-2 \ \frac{Ci \cdot ml}{\mu Ci \cdot ft^3}\right) = Ci$

4.1.4 Divide each nuclides activity in curies by its respective RQ value from Enclosure 5.2. Add the ratio values in column 5 (Enclosure 5.1) to determine the sum of the ratios, if < 1 the release is not reportable. If ≥ 1 the release is reportable per 40CFR302 (Reference 2.3).

4.1.5 If the release is reportable, contact the Radiation Protection Manager/qualified designee and Operations Shift Manager.

4.1.6 The release of a Reportable Quantity is reportable to the EPA as soon as possible. Environmental Management Personnel shall make this report. An Environmental Management reporting hotline is available 24 hours a day at extension 4232. Directions concerning contact of duty Environmental Management personnel, via offsite pager, will be given if the call is made after normal working hours.

4.2 Radionuclide Concentration at Area Water Supply Intakes

4.2.1 Radiation Protection shall collect and evaluate samples per Reference 2.1.

4.2.2 Radiation Protection shall determine the discharge point concentration from EMF data and/or environmental samples.

4.2.3 If sampling data indicates that a release through the RC System to Lake Norman is likely to exceed 10 times the limits specified in 10CFR20, Appendix B, Table 2, Column 2, (Reference 2.2) at affected area water intakes, the Emergency Coordinator shall:

4.2.3.1 Have the Control Room request maximum possible water flow at Cowans Ford Hydro Station from System Load Dispatcher.

4.2.3.2 Notify the area water supply pumping stations to cease pumping operations until the contamination levels have passed or have been diluted to within acceptable limits (Enclosure 5.3). For any unknown mixture in water, the limit is 1E-7 μCi/ml or 10 times the effluent concentrations specified in 10CFR20, Table 2, Column 2 for radionuclides other than dissolved or entrained noble gases.

4.2.4 If sampling data indicates that a release through the Conventional Waste Water Treatment (CWWT) to the Catawba River is likely to exceed 10 times the limits specified in 10CFR20, Appendix B, Table 2, Column 2 (Reference 2.2) limits at the Charlotte or Mt. Holly Water intakes, the Emergency Coordinator shall:

4.2.4.1 Have the Control Room request minimum water flow at Cowans Ford Hydro Station and Mountain Island Dam from System Load Dispatcher.

A. Transit time to Charlotte and Mt. Holly Water intakes is approximately 79 days with the minimum flow (80 cfs) through Cowans Ford.

4.2.4.2 Notify both the Charlotte and Mt. Holly Water Departments that a release of radioactive materials has occurred into the Catawba River and that sampling and evaluation of samples is being undertaken (Enclosure 5.3).

4.2.4.3 In the event that sampling confirms that contamination levels at the Charlotte or Mt. Holly intake will exceed 10 times the limits specified in 10CFR20, Appendix B, Table 2, Column 2, (Reference 2.2) recommend the Charlotte and Mt. Holly Water Departments cease pumping operations during the period of time contaminated water supplies are passing the respective pumping station intakes.

4.2.5 The people notified in the appropriate emergency procedures shall be responsible to decide what protective measure shall be taken in the interest of public health and safety. The state agency is responsible for appropriate long-term public health action (North Carolina Department of Crime Control and Public Safety).

4.2.6 Actual field measurements of exposure (TEDE) shall be compared to dose projections by the Radiation Protection Manager or the Radiological Assessment Manager.

5. Enclosures

5.1 EPA Reportable Quantity Worksheet

5.2 EPA RQ Values

5.3 Emergency Plan Implementing Procedures Telephone List.

Enclosure 5.1

EPA Reportable Quantity Worksheet

(1) Nuclide	(2) µCi/ml	(3) Ci		(4) RQ		(5) Ratio
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
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			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
			÷		=	
				Sum of Ratios	=	

Reportable Yes ☐ No ☐

Total Volume Released ________________ gallons or ft³

Conversion Factors:

1) $Liquids\ \mu Ci/ml \times total\ Vol.(gal.) \times 3.785E-3\ \frac{Ci \cdot ml}{\mu Ci \cdot gal} = Ci$

2) $Gaseous\ \mu Ci/ml \times total\ Vol.(ft^3) \times 2.832E-2\ \frac{Ci \cdot ml}{\mu Ci \cdot ft^3} = Ci$

Enclosure 5.2

EPA RQ Values *

RQ = 1000 Curies	RQ - 100 Curies	RQ = 10 Curies	RQ = 1 Curie	RQ = 0.1 Curies	RQ = 0.01 Curies
F-18	H-3	Na-24	Ru-106	I-133	I-131
Cr-51	Be-7	Ar-41	Sn-126	Sr-90	
Cu-64	Cl-38	Mn-54	I-130		
Zn-69	Fe-55	Co-58	Cs-134		
Br-83	Mn-56	Fe-59	Cs-137		
Kr-83m	Co-57	Co-60	Ce-144		
Kr-85	Ni-63	Zn-65			
Rb-88	Ni-65	Se-75			
Rb-89	Zn-69m	Br-82			
Y-91m	Br-84	Rb-86			
Tc-101	Kr-85m	Ru-86			
In-113m	Sr-92	Kr-87			
Te-127	Y-92	Kr-88			
Te-129	Nb-95m	Sr-89			
Te-131	Nb-97	Y-90			
Xe-131m	Mo-99	Y-91			
Xe-133	Tc-99m	Sr-91			
Xe-133m	Ru-105	Nb-95			
Te-134	Cd-115	Zr-95			
Ba-139	In-115m	Zr-97			
Ba-141	I-134	Ru-103			
Ba-142	Xe-135	Ag-108m			
Pr-144	Cs-138	Ag-110m			
	La-142	Sn-113			
	Ce-143	Cd-115m			
	W-187	Sb-122			
	Np-239	Sb-123			
		Sb-124			
		Sb-125			
		Te-125m			
		Sb-126			
		Te-127m			
		Te-129m			
		Te-131m			
		I-132			
		Te-132			
		Ba-133			
		I-135			
		Xe-135m			
		Cs-136			
		Xe-138			
		Ba-140			
		La-140			
		Ce-141			
		Pr-143			

* No values are listed for Kr-89, Kr-90, and Xe-137. For nuclides not listed above, refer to 40CFR302, Appendix B (Reference 2.3)

Emergency Plan Implementing Procedures
Telephone List

CHARLOTTE WATER	
River Pumping Station	399-2331
Administration Building	399-2221
Plant Supervision	399-2426 (Work)
Emergency Radio Call Sign	KVB 704

MT. HOLLY WATER	
Pumping Station	822-2928
Chief Operator	822-2928 822-1526 (Home)
City Manager	827-3931 (Office)

RADIATION PROTECTION	
Shift Technician	4282 / 2892
	Beeper #600

(R06-97)

Duke Power Company
PROCEDURE PROCESS RECORD

(1) ID No. RP/0/A/5700/010
Revision No. 010

PREPARATION

(2) Station **McGuire Nuclear Station**

(3) Procedure Title NRC Immediate Notification Requirements

(4) Prepared By _____ Date 12/1/99

(5) Requires 10CFR50.59 evaluation?

- [x] Yes (New procedure or revision with major changes)
- [ ] No (Revision with minor changes)
- [ ] No (To incorporate previously approved changes)

(6) Reviewed By _____ (QR) Date 12/1/99

Cross-Disciplinary Review By _____ (QR) NA _____ Date 12-2-99

Reactivity Mgmt. Review By _____ (QR) NA _____ Date 12-2-99

(7) Additional Reviews

Reviewed By _____ Date _____

Reviewed By _____ Date _____

(8) Temporary Approval *(if necessary)*

By _____ (SRO/QR) Date _____

By _____ (QR) Date _____

(9) Approved By _____ Date 1/24/2000

PERFORMANCE (Compare with Control Copy every 14 calendar days while work is being performed.)

(10) Compared with Control Copy _____ Date _____

Compared with Control Copy _____ Date _____

Compared with Control Copy _____ Date _____

(11) Date(s) Performed _____

Work Order Number (WO#) _____

COMPLETION

(12) Procedure Completion Verification

- [ ] Yes [ ] N/A Check lists and/or blanks initialed, signed, dated or filled in NA, as appropriate?
- [ ] Yes [ ] N/A Listed enclosures attached?
- [ ] Yes [ ] N/A Data sheets attached, completed, dated and signed?
- [ ] Yes [ ] N/A Charts, graphs, etc. attached, dated, identified, and marked?
- [ ] Yes [ ] N/A Procedure requirements met?

Verified By _____ Date _____

(13) Procedure Completion Approved _____ Date _____

(14) Remarks *(attach additional pages, if necessary)*

Duke Power Company McGuire Nuclear Station **NRC Immediate Notification Requirements** **Multiple Use**	Procedure No. RP/**0**/A/5700/010
	Revision No. 010
	Electronic Reference No. MC0048MD

NRC Immediate Notification Requirements

1. Symptoms

1.1 Plant conditions requiring immediate1 hour, 4 hour, or 24 hour NRC notification in accordance with 10CFR20.1906, 10CFR20.2201, 10CFR20.2201, 10CFR20.2202, 10CFR26.73, 10CFR50.36, 10CFR50.72, 10CFR70.52, 10CFR73.71, 10CFR73 Appendix G, and McGuire Facility Operating License Conditions (NPF-9 Unit 1, NPF-17 Unit 2).

1.2 **IF** a notification is being made to the NRC due to an emergency classification (e.g., NOUE, Alert, SAE, General Emergency), **THEN** RP/0/A/5700/010 does not have to be completed

2. Immediate Actions

2.1 Automatic

None

2.2 Manual

Notify the NRC Operations Center in accordance with this procedure.

3. Subsequent Actions

Initials

_____ 3.1 Ensure Shift Work Manager is aware of the pending NRC notification.

_____ 3.2 The Operations Shift Manager shall assure the Notification requirements of this procedure are met for the reportable events provided in Enclosure 4.

_____ 3.3 Determine the appropriate notification requirement and the reporting time requirement using Enclosure 4.1, Events Requiring NRC Notification.

NOTE:
- Security Reports should be reported using Procedure EXAC 15, Reporting of Safeguard Events. The Security Shift Supervisor will provide all information to the Operations Shift Manager for the NRC Notification.
- Sections of Enclosure 4.2 that are not applicable should be marked (N/A).

_____ 3.4 Complete the applicable portions of Enclosure 4.2 as identified by Enclosure 4.1 and transmit to the NRC Operations Center using RP/0/A/5700/014, Tab 2.

NOTE: Use the RED NRC OPS Center button on the Operations Shift Support Technician's Fax machine for hard copy transmittal. Use of this button also copies the Site NRC Resident's office.

—— 3.5 Provide Follow up Notification to the NRC Operations Center in 3.4 above in accordance with Enclosure 4.1, Paragraph 4.1.5.

—— 3.6 Maintain an "OPEN", continuous, communication channel with the NRC Operations Center upon request by the NRC.

—— 3.7 Notify the Station Manager using RP/0/A/5700/014, Tab 3.

—— 3.8 Notify the General Office Nuclear Generation Operations Duty Engineer using RP/0/A/5700/014, Tab 3.

—— 3.9 Notify one of the NRC Resident Inspectors using RP/0/A/5700/014, Tab 2.

—— 3.10 Upon completion of this procedure the Operations Shift Manager will fill out the completion portion of the Process Record Form and forward the approved/completed procedure to Document Control for retention. A copy of the completed procedure shall be routed to the Manager, Regulatory Compliance.

4. Enclosures

4.1 Events Requiring NRC Notification

4.2 NRC Event Notification Worksheet

4.3 Actuation of an Engineered Safety Feature or the Reactor Protection System

Enclosure 4.1

Events Requiring NRC Notification

4.1.1	Events Requiring IMMEDIATE NOTIFICATIONS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
4.1.1.1 [50.72a(1)(i)]	The declaration of any of the Emergency Classes specified in the McGuire Emergency Plan	4.1.1.1	Immediately after notification to state(s) and local government (counties) and not later than one hour after the time the Emergency Class was declared. Immediately report any change from one Emergency Class to another or a termination of the Emergency Class (Use Enclosure 4.2)
	and		
[50.72c(1)(ii)]	any change from one Emergency Class to another		
	or		
[50.72c(1)(iii)]	a termination of the Emergency Class		
4.1.1.2 [20.1906]	Events involving receiving and opening packages containing quantities of radioactive material in excess of a Type A quantity as defined in section 71.4 and Appendix A to part 71 of this chapter when;	4.1.1.2	**NOTE:** Reporting under 10CFR20.1906 should be made as follows: the licensee shall immediately notify the final delivery carrier and by telephone and telegram, mailgram, or facsimile, the Region II Administrator at (404) 562-4400 and FTS 841-4503.
[20.1906]	Removable radioactive surface contamination exceeds the limits of section 71.87(I) of this chapter;		
	or		
[20.1906]	External radiation levels exceed the limits of section 71.47 of this chapter.		
4.1.1.3 [20.2201a(i)]	Any lost, stolen, or missing licensed material in an aggregate quantity equal to or greater than 1,000 times the quantity specified in appendix C to section 20.1001-20.2401 under such circumstance that it appears to the licensee that an exposure could result to persons in unrestricted areas.	4.1.1.3	Immediately after its occurrence becomes known to the licensee.
	or		
[20.2201a(ii)]	Within 30 days after the occurrence of any lost, stolen, or missing licensed material becomes known to the licensee, all licensed material in a quantity greater than 10 times the quantity specified in appendix C of section 20.1001-20.2401 that is still missing at this time.		

4.1.1	Events Requiring IMMEDIATE NOTIFICATIONS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
4.1.1.3	Any event involving by-product, source, or special nuclear material possessed by the licensee that may have caused or threatens to cause any of the following conditions: An individual to receive:	4.1.1.3	Immediately after its occurrence becomes known to the licensee
[20.2202a1(i)]	A total effective dose equivalent of 25 rems (0.25 Sv) or more;		
	or		
[20.2202a1(ii)]	An eye dose equivalent of 75 rems (0.75 Sv) or more.		
	or		
[20.2202a1(iii)]	A shallow dose equivalent to the skin or extremities of 250 rads (2.5 Gy) or more.		
	or		
[20.2202a2]	The release of radioactive material, inside or outside of a restricted area, so that, had an individual been present for 24 hours, the individual could have received an intake five times the annual limit on intake (the provisions of this paragraph do not apply to locations where personnel are not normally stationed during routine operations, such as hot-cells or process enclosures).		

4.1.2	Events Requiring ONE-HOUR REPORTS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
4.1.2.1 [50.72b1(i)(A)]	The initiation of any nuclear plant shutdown required by Technical Specifications	4.1.2.1	As soon as practical and within 1 hour of the occurrence (Use Enclosure 4.2)
4.1.2.2 [50.72b1(i)(B)]	Any deviation from a plant License Condition or Technical Specification authorized in 10CFR50.54(x). (Licensee may take reasonable action that departs from a license condition or technical specification in an emergency when this action is immediately needed to protect the health and safety of the public).	4.1.2.2	As soon as practical and within 1 hour of the occurrence (Use Enclosure 4.2)
4.1.2.3 [50.72b1(ii)]	Any event or condition during operation that results in the condition of the plant, including the principle safety barriers, being seriously degraded, or results in the plant being;	4.1.2.3	As soon as practical and within 1 hour of the occurrence (Use Enclosure 4.2)
[50.72b1(ii)(A)]	In an unanalyzed condition that significantly compromises plant safety.		
[50.72b1(ii)(B)]	In a condition that is outside the design basis of the plant.		
[50.72b1(ii)(C)	In a condition not covered by the plant's operating and emergency procedures		
4.1.2.4 [50.72b1(iv)]	Any event that results or should have resulted in Emergency Core Cooling System (ECCS) discharge into the reactor coolant system as a result of a valid signal.	4.1.2.4	As soon as practical and within 1 hour of occurrence. (Use Enclosure 4.2)
4.1.2.5 [50.72b1(v)]	Any event that results in a major loss of emergency assessment capability, offsite response capability, or communications capability (e.g. significant portion of control room indication, Emergency Notification System (ENS)* or Offsite Notification System**	4.1.2.5	As soon as practical and within 1 hour of occurrence (Use Enclosure 4.2)

4.1.2	Events Requiring ONE-HOUR REPORTS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
	** **NOTE:** Failure of >14 sirens requires ENS notification. For repair after normal hours Telecommunications 382-7762.		
	* A report by the NRC Operations Center that ENS communications is not available from Rockville, Md. to the Control Room does not require a "return" 1 hour call. Document conversation in the SRO log , no further action is necessary. If the Control Room ENS is NOT operable, a 1 hour notification shall be made to the NRC Operations Center using Enclosure 4.2 via commercial telephone service or other dedicated telephone system or any other method which will ensure that a report is made as soon as practical.		
4.1.2.6 [50.72b1(iii)]	Any natural phenomenon or other external condition that poses an actual threat to the safety of the nuclear power plant or significantly hampers site personnel in the performance of duties necessary for the safe operation of the plant.	4.1.2.6	As soon as practical and within 1 hour of occurrence. (Use Enclosure 4.2)
4.1.2.7 [50.72b1(vi)]	Any event that poses an actual threat to the safety of the nuclear power plant or significantly hampers site personnel in the performance of duties necessary for the safe operation of the nuclear power plant including fires, toxic gas releases, or radioactive releases.	4.1.2.7	As soon as practical and within 1 hour of occurrence. (Use Enclosure 4.2)
4.1.2.8 [70.52]	Events involving accidental criticality or loss or theft or attempted theft of special nuclear material.	4.1.2.8	Within 1 hour after discovery (Use Enclosure 4.2)
[70.52]	Any case of accidental criticality or any loss, other than normal operating loss, of special nuclear material.		
	or		
[70.52]	Any loss or theft or unlawful diversion of special nuclear material or any incident in which an attempt has been made or is believed to have been made to commit a theft or unlawful diversion of such material.		

4.1.2	Events Requiring ONE-HOUR REPORTS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
4.1.2.9 [73.71]	Safeguards events	4.1.2.9	Within one hour after discovery (Use Enclosure 4.2)
[73.71]	The loss of any shipment of SNM or spent fuel, and within one hour after recovery of or accounting for such lost shipment.		
[73.71] [73 Appendix G]	Any event in which there is reason to believe that a person has committed or caused, or attempted to commit or cause, or has made a credible threat to commit or cause:		
[73.71] [73 Appendix G]	A theft or unlawful diversion of special nuclear material;		
	or		
[73.71] [73 Appendix G]	Significant physical damage to a power reactor or any facility possessing **SSNM** or its equipment or carrier equipment transporting nuclear fuel or spent nuclear fuel a facility or carrier possesses;		
	or		
[73.71] [73 Appendix G]	Interruption of normal operation of a licensed nuclear power reactor through the unauthorized use of or tampering with its machinery, components, or controls including the security system.		
[73.71] [73 Appendix G]	An actual entry of an unauthorized person into a protected area, material access area, controlled access area, vital area, or transport.		
[73.71] [73 Appendix G]	Any failure, degradation, or the discovered vulnerability in a safeguard system that could allow unauthorized or undetected access to a protected area, material access area controlled access area, vital area, or transport for which compensatory measures have not been employed.		

Enclosure 4.1

Events Requiring NRC Notification

4.1.2	Events Requiring ONE-HOUR REPORTS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
[73.71] [73 Appendix G]	The actual or attempted introduction of contraband into a protected area, material access area, vital area, or transport.		
4.1.2.10 [50.36] T.S.6.7	Violation of a safety limit.	4.1.2.10	As soon as practical and within 1 hour of occurrence. (Use Enclosure 4.2)
4.1.2.11 [McGuire Facility Operating License Conditions] NPF-9 NPF-17	Any accident at this facility which could result in an unplanned release of quantities of fission products in excess of allowable limits for normal operation established by the Commission.	4.1.2.11	As soon as practical and within 1 hour of occurrence. (Use Enclosure 4.2)

4.1.3	Events Requiring FOUR HOUR REPORTS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
4.1.3.1 [50.72b2(i)]	Any event found while the reactor(s) is/are shutdown, that had it been found while the reactor(s) was/were in operation would have resulted in the plant including its principle safety barriers, being seriously degraded or being in an unanalyzed condition that significantly compromises plant safety.	4.1.3.1	As soon as practical and within 4 hours of the occurrence. (Use Enclosure 4.2)
4.1.3.2 [50.72b2(ii)]	Any event or condition that results in manual or automatic actuation of any Engineered Safety Feature (ESF), including the Reactor Protection system (RPS), except when:	4.1.3.2	As soon as practical and within 4 hours of the occurrence. (Use Enclosure 4.2)
[50.72b2(ii)(A)]	The actuation results from and is part of a pre-planned sequence during testing or reactor operation;		
[50.72b2(ii)(B)]	The actuation is invalid and:		
[50.72b2(ii)(B)(1)]	Occurs while the system is properly removed from service;		
[50.72b2(ii)(B)(2)]	Occurs after the safety function has been already completed;		
	or		
[50.72b2(ii)(B)(3)]	The invalid actuation involves only the following specific ESFs or their equivalent systems;		
[50.72b2(ii)(B)(3)(i)]	Reactor water clean up system;		
[50.72b2(ii)(B)(3)(ii)]	Control Room emergency ventilation system;		
[50.72b2(ii)(B)(3)(iii)]	Reactor building ventilation system;		
[50.72b2(ii)(B)(3)(iv)]	Fuel building ventilation system;		
	or		
[50.72b2(ii)(B)(3)(v)	Auxiliary building ventilation system.		
	ESF ACTUATIONS		
	(1) Refer to Enclosure 4.3, Actuation of an Engineered Safety Feature or the Reactor Protection System for definition and examples.		
	(2) Any ESF Actuation listed in Technical Specification 3.3.2, Table 3.3-3		

Enclosure 4.1

Events Requiring NRC Notification

4.1.3	Events Requiring FOUR HOUR REPORTS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
	RPS ACTUATIONS		
	(1) Any RPS Actuation listed in Technical Specification 3.3.1, Table 3.3-1		
4.1.3.3 [50.72b2(iii)]	Any event or condition that alone could have prevented the fulfillment of the safety function of structures or systems that are needed to:	4.1.3.3	As soon as practical and within 4 hours of the occurrence. (Use Enclosure 4.2)
[50.72b2(iii)(A)]	Shutdown the reactor and maintain it in a safe shutdown condition.		
[50.72b(iii)(B)]	Remove residual heat		
[50.72b2(iii)(C)]	Control the release of radioactive material		
	or		
[50.72b2(iii)(D)]	Mitigate the consequences of an accident.		
4.1.3.4 [50.72b2(iv)(A)]	Any airborne radioactive release that, when averaged over a time period of 1 hour, results in concentrations in unrestricted area that exceed 20 times the applicable concentration specified in appendix B to section 20.1001-20.2401, table 2, column 1, of part 20 of this chapter. (Immediate Notifications made under this paragraph also satisfy the requirements of section 20.2202 of this chapter.)	4.1.3.4	As soon as practical and within 4 hours of the occurrence. (Use Enclosure 4.2)
4.1.3.5 [50.72b2(iv)(B)]	Any liquid effluent release that, when averaged over a time period of 1 hour, exceeds 20 times the applicable concentration specified in appendix B to section 20.1001-20.2401, table 2 column 2 of part 20 of this chapter, at the point of entry into the receiving waters (i.e. unrestricted area) for all radionuclides except tritium and dissolved noble gases. (Immediate notifications made under this paragraph also satisfy the requirements of section 20.2202 of this chapter).	4.1.3.5	As soon as practical and within 4 hours of the occurrence. (Use Enclosure 4.2)

4.1.3	Events Requiring FOUR HOUR REPORTS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]		REPORTING TIME REQUIREMENTS
{50.72b2(v)}	**NOTE:** NRC notification should NOT be made related to offsite notification for exceeding environmental permit limits or for other events with no environmental impact unless recommended by Environmental Management personnel. For environmental events, determination of reportability on a case-by-case basis has been authorized by NRC/ONRR letter of interpretation dated May 17,1996. Any event requiring the transport of a radioactively contaminated person to an offsite medical facility for treatment. (Notify NRC per RP/0/A/5700/010, contact Carolinas Medical Center per RP/0/A/5700/005).		As soon as practical and within 4 hours of the occurrence (Use Enclosure 4.2)

4.1.3	Events Requiring FOUR HOUR REPORTS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
4.1.3.6 [50.72b2(vi)]	Any event or situation, related to the health and safety of the public or onsite personnel, or protection of the environment, for which a news release is planned or notification to other government agencies has been or will be made. Such an event may include an onsite fatality or inadvertent release of radioactively contaminated materials.	4.1.3.6	As soon as practical and within 4 hours of the occurrence. (Use Enclosure 4.2)
[50.72b2(vii)]	Any instance of:		
[50.72b(vii)(A)]	A defect in any spent fuel storage cask structure, system, or component which is important to safety;		
	or		
[50.72b2(vii)(B)]	A significant reduction in the effectiveness of any spent fuel storage cask confinement system during use of the storage cask under a general license issued under section 72.210 of this chapter.		

4.1.4	Events Requiring TWENTY-FOUR HOUR REPORTS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
4.1.4.1 [20.2202b]	Any event involving loss of control of licensed material possessed by the licensee that may have caused, or threatens to cause any of the following conditions:	4.1.4.1	Within 24 hours of discovery of the event. (Use Enclosure 4.2)
[20.2202b1]	An individual to receive in a period of 24 hours-		
[20.2202b1(i)]	A total effective dose equivalent exceeding 5 rems (0.05 Sv);		
	or		
[20.2202b1(ii)]	An eye dose equivalent exceeding 15 rems (0.15 Sv);		
	or		
[20.2202b1(iii)]	A shallow dose equivalent to the skin or extremities exceeding 50 rems (0.5 Sv);		
	or		
[20.2202b2]	The release of radioactive material inside or outside of a restricted area, so that, had an individual been present for 24 hours, the individual could have received an intake in excess of one occupational annual limit on intake (the provisions of this paragraph do not apply to locations where personnel are not normally stationed during routine operation, such as hot-cells or process enclosures).		
4.1.4.2 [26.73]	Significant events involving fitness for duty including;	4.1.4.2	
[26.73]	Sale, use, or possession of illegal drugs within the protected area		
	and		
	Any acts by any person licensed under 10CFR part 55 to operate a power reactor or by any supervisory personnel assigned to perform duties with the scope of this part		
	Involving the sale, use or possession of a controlled substance,		

Enclosure 4.1

Events Requiring NRC Notification

4.1.4	Events Requiring TWENTY-FOUR HOUR REPORTS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
	Resulting in confirmed positive tests on such persons,		
	Involving use of alcohol with the protected area,		
	or		
	Resulting in a determination of unfitness for scheduled work due to the consumption of alcohol.		
4.1.4.3 McGuire Facility Operating License Conditions	Unit operation exceeding 3411 mw thermal *(see note) {PIP-0-M-99-0874}	4.1.4.3	The licensee shall report any violations of these requirements within 24 hours by telephone and confirm by telegram, mailgram, or facsimile transmission to the NRC Regional Administrator, Reg. II, or his designate, no later than the first working day following the violation, with a written follow-up report within 14 days.
	Failure to implement effect all provisions of the approved fire protection program.		
	Failure to fully implement and maintain in effect all provisions of the Commission-approved physical security, guard training and qualification, and safeguards contingency plans including amendments.		

NOTE:

1. Technical Specification defines Rated Thermal Power as the total core heat transfer rate of 3411 MWT. It is desirable to operate as near this point as practical in order to maximize utilization of available capacity. This provides specific guidelines for "maximizing capacity available" while still operating within technical specification and license limits.
2. The following does not imply that unit power may be intentionally increased above 100% Full Power (F.P.). This does permit slight variations above 100% F. P. as a result of instrument variations, control instabilities, etc.
3. The average power level as indicated by computer heat balance calculations over any twelve-hour shift should not exceed the "full steady state power level" of 3411 MWT. It is permissible to briefly exceed the "full steady state licensed power level" by as much as 2% for as long as 15 minutes. In no case should 102% full power be exceeded.
4. Lesser variations for longer periods are permitted within the above guidelines. For example:

Power level (Maximum)	Time interval Permitted
102.0%	15 Minutes
101.0%	30 Minutes
100.5%	60 Minutes

There are no limits on the times these variations may occur, or the time intervals that may separate such variations other than the limit regarding the twelve hour average power.

4.1.5	"FOLLOWUP NOTIFICATION" REQUIREMENTS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
4.1.5.1 [50.72c]	During the course of the event, report:	4.1.5.1	Immediately (Use Enclosure 4.2)
[50.72c1(i)]	Any further degradation in the level of safety of the plant or other worsening plant conditions, including those that require the declaration of any of the Emergency Classes, if such a declaration has not been previously made,		
	or		
[50.72c1(ii)]	Any change from one Emergency Class to another		
	or		
[50.72c1(iii)]	Termination of an Emergency Class		
[50.72c2(i)]	The results of ensuing evaluations or assessments of plant conditions,		
[50.72c2(ii)]	The effectiveness of response or protective measures taken		
	and		
[50.72c2(iii)]	Information related to plant behavior that is not understood.		

Enclosure 4.2

NRC Event Notification Worksheet

STATE: "THIS IS THE McGUIRE NUCLEAR SITE IN NRC REGION 2 MAKING AN EVENT NOTIFICATION REPORT"

NOTIFICATION TIME/DATE	UNIT	CALLER'S NAME	CALLBACK TELEPHONE #: ENS 256-9003 or (704) - 875-6044	NRC OPERATIONS OFFICER CONTACTED

EVENT TIME & ZONE	EVENT DATE	POWER/MODE BEFORE	POWER/MODE AFTER
_____ Region II (time) (zone)			

EVENT CLASSIFICATIONS
☐ GENERAL EMERGENCY
☐ SITE AREA EMERGENCY
☐ ALERT
☐ UNUSUAL EVENT
☐ 50.72 NON-EMERGENCY
☐ PHYSICAL SECURITY (73.71)
☐ TRANSPORTATION (10 CFR 20)
☐ MATERIAL/EXPOSURE (10 CFR 20)
☐ OTHER

1-Hr Non-Emergency 10 CFR 50.72(b)(1)	
☐ (50.72 b1 (I)(A))	TS Required S/D
☐ (50.72 b1 (I)(B))	TS Deviation
☐ (50.72 b1 (II))	Degraded Condition
☐ (50.72 b1 (II)(A))	Unanalyzed Condition
☐ (50.72 b1 (II)(B))	Outside Design Basis
☐ (50.72 b1 (II)(C))	Not Covered by OPs/EPs
☐ (50.72 b1 (III))	Earthquake
☐ (50.72 b1 (III))	Flood
☐ (50.72 b1 (III))	Hurricane
☐ (50.72 b1 (III))	Ice/Hail
☐ (50.72 b1 (III))	Lightning
☐ (50.72 b1 (III))	Tornado
☐ (50.72 b1 (III))	Other Natural Phenomenon
☐ (50.72 b1 (IV))	ECCS Discharge to RCS
☐ (50.72 b1 (V))	Lost ENS
☐ (50.72 b1 (V))	Lost Other Assess./Comms.
☐ (50.72 b1 (V))	Emergency Siren INOP
☐ (50.72 b1 (VI))	Fire
☐ (50.72 b1 (VI))	Toxic Gas
☐ (50.72 b1 (VI))	Rad Releases
☐ (50.72 b1 (VI))	Other Hampering Safe Op.

1 Hr Non-Emergency	
☐ (70.52) (a) and (b)	Accidental Criticality or loss or theft of SNM
☐ (50.36) (T.S.6.7)	Violation of a safety limit
☐ MNS Facility Operating License Conditions	

4-Hr Non-Emergency 10 CFR 50.72(b)(2)	
☐ (50.72 b2 (I))	Degraded While S/D
☐ (50.72 b2 (II))	RPS Actuation (scram)
☐ (50.72 b2 (II))	ESF Actuation
☐ (50.72 b2 (III)(A))	Safe S/D Capability
☐ (50.72 b2 (III)(B))	RHR Capability
☐ (50.72 b2 (III)(C))	Control of Rad Release
☐ (50.72 b2 (III)(D))	Accident Mitigation
☐ (50.72 b2 (IV)(A))	Air Release > 20X App B
☐ (50.72 b2 (IV)(B))	Liq Release > 20X App B
☐ (50.72 b2 (V))	Offsite Medical
☐ (50.72 b2 (VI))	Offsite Notification

24-Hr. Non-Emergency
☐ McGuire Facility Operating License Conditions
☐ Material/Exposure (10CFR20)
☐ 26.73 Significant events involving fitness for duty.

EVENT DESCRIPTION

Include: Systems affected, actuation's & their initiating signals, causes, effect of event on plant, actions taken or planned, etc.

Continue on Enclosure 4.2 page 2 of 2 if necessary.

NOTIFICATIONS	YES	NO	WILL BE
NRC RESIDENT			
STATE(s)			
LOCAL			
OTHER GOV AGENCIES			
MEDIA/PRESS RELEASE			

ANYTHING UNUSUAL OR NOT UNDERSTOOD? ☐ YES ☐ NO

(Explain above)

DID ALL SYSTEMS FUNCTION AS REQUIRED ☐ YES ☐ NO

(Explain above)

MODE OF OPERATION UNTIL CORRECTED	EST. RESTART DATE:	ADDITIONAL INFOR ON BACK ☐ YES ☐ NO

APPROVED BY: _____ TIME/DATE: _____ _____/_____/_____

Operations Shift Manager/Emergency Coordinator (eastern) mm dd yy

Enclosure 4.2
NRC Event Notification Worksheet

RADIOLOGICAL RELEASES: CHECK OR FILL IN APPLICABLE ITEMS (specific details/explanations should be covered in event description)

LIQUID RELEASE	GASEOUS RELEASE	UNPLANNED RELEASE	PLANNED RELEASE	ONGOING	TERMINATED
MONITORED	UNMONITORED	OFFSITE RELEASE	T.S. EXCEEDED	RM ALARMS	AREAS EVACUATED
PERSONNEL EXPOSED OR CONTAMINATED		OFFSITE PROTECTIVE ACTIONS RECOMMENDED		State release path in description	

NOTE: Contact Radiation Protection Shift to obtain the following information.

IF the notification is due and the information is not available,
THEN mark "Not Available" and complete the notification.

	Release Rate (Ci/sec)	% T.S. LIMIT	HOO GUIDE	Total Activity (Ci)	% T.S. LIMIT	HOO GUIDE
Noble Gas			0.1 Ci/sec			1000 Ci
Iodine			10 uCi/sec			0.01 Ci
Particulate			1 uCi/sec			1 mCi
Liquid (excluding tritium & dissolved noble gases)			10 uCi/min			0.1 Ci
Liquid (tritium)			0.2 Ci/min			5 Ci
Total Activity						

RECORD MONITORS IN ALARM	PLANT STACK (EMF 35, 36, 37)	CONDENSER/ AIR EJECTOR (EMF 33)	MAIN STEAM LINE (UNIT 1-EMF 24,25,26,27 UNIT 2-EMF 10, 11, 12,13)	SG BLOWDOWN (EMF 34)	OTHER
RAD MONITOR READINGS:					
ALARM SETPOINTS: TRIP II					
% T.S. LIMIT (If applicable)		NOT APPLICABLE		NOT APPLICABLE	

RCS OR SG TUBE LEAKS: CHECK OR FILL IN APPLICABLE ITEMS (specific details/explanations should be covered in event description)

LOCATION OF THE LEAK (e.g. SG#, valve, pipe, etc.):

LEAK RATE: gpm/gpd	T.S. LIMITS EXCEEDED:	SUDDEN OR LONG TERM DEVELOPMENT:

LEAK START DATE: TIME:

COOLANT ACTIVITY: (Last Sample)
PRIMARY: Xe eq_____mCi/ml; Iodine eq. _____mCi/ml
SECONDARY: Xe eq_____mCi/ml; Iodine eq. _____mCi/ml

LIST OF SAFETY RELATED EQUIPMENT NOT OPERATIONAL:

EVENT DESCRIPTION (Continued from Enclosure 4.2 page 1 of 2)

Enclosure 4.3

Actuation of An Engineered Safety Feature or the Reactor Protection System

§50.72(b)(2)(ii)	§50.73(a)(2)(iv)
Licensees shall report "any event or condition that results in manual or automatic actuation of any Engineered Safety Feature (ESF), including the Reactor Protection System (RPS). However, actuation of an ESF, including the RPS, that results from and is part of the preplanned sequence during testing or reactor operation need not be reported."	Licensees shall report "any event or condition that resulted in a manual or automatic actuation of any Engineered Safety Feature (ESF), including the Reactor Protection System (RPS). However, actuation of an ESF, including the RPS, that resulted from and was part of the preplanned sequence during testing or reactor operation need not be reported."

1. Definitions

   a. Engineered Safety Feature (ESF): Engineered Safety Features are the provision in the plant which serve to: (1) control reactor fission products which may leak from the fuel by assuring their retention in the Reactor Coolant System (RCS), (2) control and limit the consequences of energy and radioactivity within the containment, and (3) provide adequate cooling of the core under all circumstances. Those ESF systems specific to each station are listed in Enclosure 4.3, page 4 of 4.

   b. ESF/RPS Actuation: (1) Receipt of a Solid State Protection System (SSPS) signal(s) necessary to activate the ESF/RPS system, or (2) manual or automatic actions that activate the ESF/RPS system without the presence of an SSPS signal(s).

   c. Preplanned Actuation: A preplanned ESF actuation is the initiation of a particular ESF as called for by an approved operating or testing procedure.

   d. Properly Removed From Service: The component or system is intentionally mechanically or electrically disabled such that is not capable of performing its intended safety function, and all requirements of station procedures for removing equipment from service has been met (e.g., required clearance documentation, equipment and control board tagging, etc.).

2. Reportability

All ESF actuations, including actuations of the RPS, are reportable regardless of the plant operating mode or the significance of the structure, system, or component that initiated the event or whether initiated manually or automatically. The fact that the safety analysis assumes that an ESF system will actuate automatically under certain plant conditions does not preclude the need to report such actuations.

3. Reporting Exceptions

Actuations that need not be reported are those initiated for reasons other than to mitigate the consequences of an event (e.g., preplanned actuations and ESFs that have been properly removed from service and not required to be operable. However, if the ESF actuates during the planned operation or test in a way that is not part of the planned procedure, such as at the wrong step, that event is reportable).

EXAMPLES

{For the reportable examples provided, assume the actuation is not part of a pre-planned sequence in a procedure and the system has not been removed from service}.

a. Any manual or automatic actuation of the reactor trip switchgear is reportable.

b. Initiation of a containment isolation signal constitutes an ESF actuation whether or not the containment isolation valve actually repositions.

c. The opening of a Hydrogen Skimmer fan header isolation valve and the subsequent starting of a Hydrogen Skimmer fan is an ESF actuation.

d. The starting of any of the ECCS pumps to mitigate the consequences of a significant event is an ESF actuation.

e. The automatic start of a standby train of Control Room Ventilation constitutes an ESF actuation. (MNS and CNS)

f. Any manual or automatic actuation of the Auxiliary Feedwater (CA) system is reportable (MNS and CNS)

g. Unplanned Diesel Generator starts resulting from ES Channel 1 or 2 signals, are reportable.

h. The operation of Auxiliary Building ventilation in the filtered mode is an ESF function.

i. During a significant operational transient, an "ice condenser door open" alarm was received in the Control Room. This is a reportable event because some condition existed during the transient that caused the alarm to be received. Generally, if the Ice Condenser doors are off their seals, the equipment is considered actuated.

Non-Reportable

a. Swaps of Nuclear Service Water pump's suction from the lake to the Standby Nuclear Service Water pond is not reportable.

b. No equipment actuation because of a signal generated by EMF's (radiation monitors) is considered to be an ESF actuation.

Enclosure 4.3

Actuation of An Engineered Safety Feature or the Reactor Protection System

ENGINEERING SAFETY FEATURES

1. Containment Isolation Systems
   a. Phase A
   b. Phase B
2. Containment Heat Removal
   a. Ice Condenser
   b. Air Return Fans
   c. Containment/Reactor Building Spray
3. Secondary Containment
   a. Annulus Ventilation
4. Combustible Gas Control in Containment
   a. Hydrogen Recombiners
   b. Air Return and Skimmer Fans
   c. Hydrogen Purge
   d. Hydrogen Igniters
5. Emergency Core Cooling System
   a. NV
   b. NI
   c. ND
   d. CLA/CFT
   e. FWST/BWST
      1) Containment Sump Swapover
6. Habitability Systems
   a. Control Room Ventilation or Blackout Signal
7. ESF Filter Systems
   a. Auxiliary Building Filtered Exhaust or Blackout Signal
8. Auxiliary Feedwater System
9. Diesel Generator Starts
10. Reactor Protection System
11. Turbine Trip per T.S. Table 3.3.1-1
12. Steam Line Isolation
13. Feedwater Isolation
14. 4KV Undervoltage

(R06-97)

Duke Power Company
PROCEDURE PROCESS RECORD

(1) ID No. RP/0/A/5700/010
Revision No. 010

PREPARATION

(2) Station **McGuire Nuclear Station**

(3) Procedure Title NRC Immediate Notification Requirements

(4) Prepared By _____ Date 12/1/99

(5) Requires 10CFR50.59 evaluation?

- [x] Yes (New procedure or revision with major changes)
- [ ] No (Revision with minor changes)
- [ ] No (To incorporate previously approved changes)

(6) Reviewed By _____ (QR) Date 12/1/99

Cross-Disciplinary Review By _____ (QR) NA _____ Date 12-2-99

Reactivity Mgmt. Review By _____ (QR) NA _____ Date 12-2-99

(7) Additional Reviews

Reviewed By _____ Date _____

Reviewed By _____ Date _____

(8) Temporary Approval *(if necessary)*

By _____ (SRO/QR) Date _____

By _____ (QR) Date _____

(9) Approved By _____ Date 1/24/2000

PERFORMANCE (Compare with Control Copy every 14 calendar days while work is being performed.)

(10) Compared with Control Copy _____ Date _____

Compared with Control Copy _____ Date _____

Compared with Control Copy _____ Date _____

(11) Date(s) Performed _____

Work Order Number (WO#) _____

COMPLETION

(12) Procedure Completion Verification

- [ ] Yes [ ] N/A Check lists and/or blanks initialed, signed, dated or filled in NA, as appropriate?
- [ ] Yes [ ] N/A Listed enclosures attached?
- [ ] Yes [ ] N/A Data sheets attached, completed, dated and signed?
- [ ] Yes [ ] N/A Charts, graphs, etc. attached, dated, identified, and marked?
- [ ] Yes [ ] N/A Procedure requirements met?

Verified By _____ Date _____

(13) Procedure Completion Approved _____ Date _____

(14) Remarks *(attach additional pages, if necessary)*

Duke Power Company McGuire Nuclear Station **NRC Immediate Notification Requirements** **Multiple Use**	Procedure No. RP/0/A/5700/010 Revision No. 010 Electronic Reference No. MC0048MD

NRC Immediate Notification Requirements

1. Symptoms

1.1 Plant conditions requiring immediate1 hour, 4 hour, or 24 hour NRC notification in accordance with 10CFR20.1906, 10CFR20.2201, 10CFR20.2201, 10CFR20.2202, 10CFR26.73, 10CFR50.36, 10CFR50.72, 10CFR70.52, 10CFR73.71, 10CFR73 Appendix G, and McGuire Facility Operating License Conditions (NPF-9 Unit 1, NPF-17 Unit 2).

1.2 **IF** a notification is being made to the NRC due to an emergency classification (e.g., NOUE, Alert, SAE, General Emergency), **THEN** RP/0/A/5700/010 does not have to be completed

2. Immediate Actions

2.1 Automatic

None

2.2 Manual

Notify the NRC Operations Center in accordance with this procedure.

3. Subsequent Actions

Initials

_____ 3.1 Ensure Shift Work Manager is aware of the pending NRC notification.

_____ 3.2 The Operations Shift Manager shall assure the Notification requirements of this procedure are met for the reportable events provided in Enclosure 4.

_____ 3.3 Determine the appropriate notification requirement and the reporting time requirement using Enclosure 4.1, Events Requiring NRC Notification.

NOTE:
- Security Reports should be reported using Procedure EXAC 15, Reporting of Safeguard Events. The Security Shift Supervisor will provide all information to the Operations Shift Manager for the NRC Notification.
- Sections of Enclosure 4.2 that are not applicable should be marked (N/A).

_____ 3.4 Complete the applicable portions of Enclosure 4.2 as identified by Enclosure 4.1 and transmit to the NRC Operations Center using RP/0/A/5700/014, Tab 2.

NOTE: Use the RED NRC OPS Center button on the Operations Shift Support Technician's Fax machine for hard copy transmittal. Use of this button also copies the Site NRC Resident's office.

—— 3.5 Provide Follow up Notification to the NRC Operations Center in 3.4 above in accordance with Enclosure 4.1, Paragraph 4.1.5.

—— 3.6 Maintain an "OPEN", continuous, communication channel with the NRC Operations Center upon request by the NRC.

—— 3.7 Notify the Station Manager using RP/0/A/5700/014, Tab 3.

—— 3.8 Notify the General Office Nuclear Generation Operations Duty Engineer using RP/0/A/5700/014, Tab 3.

—— 3.9 Notify one of the NRC Resident Inspectors using RP/0/A/5700/014, Tab 2.

—— 3.10 Upon completion of this procedure the Operations Shift Manager will fill out the completion portion of the Process Record Form and forward the approved/completed procedure to Document Control for retention. A copy of the completed procedure shall be routed to the Manager, Regulatory Compliance.

4. Enclosures

4.1 Events Requiring NRC Notification

4.2 NRC Event Notification Worksheet

4.3 Actuation of an Engineered Safety Feature or the Reactor Protection System

Enclosure 4.1

Events Requiring NRC Notification

4.1.1	Events Requiring IMMEDIATE NOTIFICATIONS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
4.1.1.1 [50.72a(1)(i)]	The declaration of any of the Emergency Classes specified in the McGuire Emergency Plan	4.1.1.1	Immediately after notification to state(s) and local government (counties) and not later than one hour after the time the Emergency Class was declared. Immediately report any change from one Emergency Class to another or a termination of the Emergency Class (Use Enclosure 4.2)
	and		
[50.72c(1)(ii)]	any change from one Emergency Class to another		
	or		
[50.72c(1)(iii)]	a termination of the Emergency Class		
4.1.1.2 [20.1906]	Events involving receiving and opening packages containing quantities of radioactive material in excess of a Type A quantity as defined in section 71.4 and Appendix A to part 71 of this chapter when;	4.1.1.2	**NOTE:** Reporting under 10CFR20.1906 should be made as follows: the licensee shall immediately notify the final delivery carrier and by telephone and telegram, mailgram, or facsimile, the Region II Administrator at (404) 562-4400 and FTS 841-4503.
[20.1906]	Removable radioactive surface contamination exceeds the limits of section 71.87(I) of this chapter;		
	or		
[20.1906]	External radiation levels exceed the limits of section 71.47 of this chapter.		
4.1.1.3 [20.2201a(i)]	Any lost, stolen, or missing licensed material in an aggregate quantity equal to or greater than 1,000 times the quantity specified in appendix C to section 20.1001-20.2401 under such circumstance that it appears to the licensee that an exposure could result to persons in unrestricted areas.	4.1.1.3	Immediately after its occurrence becomes known to the licensee.
	or		
[20.2201a(ii)]	Within 30 days after the occurrence of any lost, stolen, or missing licensed material becomes known to the licensee, all licensed material in a quantity greater than 10 times the quantity specified in appendix C of section 20.1001-20.2401 that is still missing at this time.		

4.1.1	Events Requiring IMMEDIATE NOTIFICATIONS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
4.1.1.3	Any event involving by-product, source, or special nuclear material possessed by the licensee that may have caused or threatens to cause any of the following conditions: An individual to receive:	4.1.1.3	Immediately after its occurrence becomes known to the licensee
[20.2202a1(i)]	A total effective dose equivalent of 25 rems (0.25 Sv) or more;		
	or		
[20.2202a1(ii)]	An eye dose equivalent of 75 rems (0.75 Sv) or more.		
	or		
[20.2202a1(iii)]	A shallow dose equivalent to the skin or extremities of 250 rads (2.5 Gy) or more.		
	or		
[20.2202a2]	The release of radioactive material, inside or outside of a restricted area, so that, had an individual been present for 24 hours, the individual could have received an intake five times the annual limit on intake (the provisions of this paragraph do not apply to locations where personnel are not normally stationed during routine operations, such as hot-cells or process enclosures).		

4.1.2	Events Requiring ONE-HOUR REPORTS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
4.1.2.1 [50.72b1(i)(A)]	The initiation of any nuclear plant shutdown required by Technical Specifications	4.1.2.1	As soon as practical and within 1 hour of the occurrence (Use Enclosure 4.2)
4.1.2.2 [50.72b1(i)(B)]	Any deviation from a plant License Condition or Technical Specification authorized in 10CFR50.54(x). (Licensee may take reasonable action that departs from a license condition or technical specification in an emergency when this action is immediately needed to protect the health and safety of the public).	4.1.2.2	As soon as practical and within 1 hour of the occurrence (Use Enclosure 4.2)
4.1.2.3 [50.72b1(ii)]	Any event or condition during operation that results in the condition of the plant, including the principle safety barriers, being seriously degraded, or results in the plant being;	4.1.2.3	As soon as practical and within 1 hour of the occurrence (Use Enclosure 4.2)
[50.72b1(ii)(A)]	In an unanalyzed condition that significantly compromises plant safety.		
[50.72b1(ii)(B)]	In a condition that is outside the design basis of the plant.		
[50.72b1(ii)(C)	In a condition not covered by the plant's operating and emergency procedures		
4.1.2.4 [50.72b1(iv)]	Any event that results or should have resulted in Emergency Core Cooling System (ECCS) discharge into the reactor coolant system as a result of a valid signal.	4.1.2.4	As soon as practical and within 1 hour of occurrence. (Use Enclosure 4.2)
4.1.2.5 [50.72b1(v)]	Any event that results in a major loss of emergency assessment capability, offsite response capability, or communications capability (e.g. significant portion of control room indication, Emergency Notification System (ENS)* or Offsite Notification System**	4.1.2.5	As soon as practical and within 1 hour of occurrence (Use Enclosure 4.2)

4.1.2	Events Requiring ONE-HOUR REPORTS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
	** **NOTE:** Failure of >14 sirens requires ENS notification. For repair after normal hours Telecommunications 382-7762.		
	* A report by the NRC Operations Center that ENS communications is not available from Rockville, Md. to the Control Room does not require a "return" 1 hour call. Document conversation in the SRO log , no further action is necessary. If the Control Room ENS is NOT operable, a 1 hour notification shall be made to the NRC Operations Center using Enclosure 4.2 via commercial telephone service or other dedicated telephone system or any other method which will ensure that a report is made as soon as practical.		
4.1.2.6 [50.72b1(iii)]	Any natural phenomenon or other external condition that poses an actual threat to the safety of the nuclear power plant or significantly hampers site personnel in the performance of duties necessary for the safe operation of the plant.	4.1.2.6	As soon as practical and within 1 hour of occurrence. (Use Enclosure 4.2)
4.1.2.7 [50.72b1(vi)]	Any event that poses an actual threat to the safety of the nuclear power plant or significantly hampers site personnel in the performance of duties necessary for the safe operation of the nuclear power plant including fires, toxic gas releases, or radioactive releases.	4.1.2.7	As soon as practical and within 1 hour of occurrence. (Use Enclosure 4.2)
4.1.2.8 [70.52]	Events involving accidental criticality or loss or theft or attempted theft of special nuclear material.	4.1.2.8	Within 1 hour after discovery (Use Enclosure 4.2)
[70.52]	Any case of accidental criticality or any loss, other than normal operating loss, of special nuclear material.		
	or		
[70.52]	Any loss or theft or unlawful diversion of special nuclear material or any incident in which an attempt has been made or is believed to have been made to commit a theft or unlawful diversion of such material.		

4.1.2	Events Requiring ONE-HOUR REPORTS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
4.1.2.9 [73.71]	Safeguards events	4.1.2.9	Within one hour after discovery (Use Enclosure 4.2)
[73.71]	The loss of any shipment of SNM or spent fuel, and within one hour after recovery of or accounting for such lost shipment.		
[73.71] [73 Appendix G]	Any event in which there is reason to believe that a person has committed or caused, or attempted to commit or cause, or has made a credible threat to commit or cause:		
[73.71] [73 Appendix G]	A theft or unlawful diversion of special nuclear material;		
	or		
[73.71] [73 Appendix G]	Significant physical damage to a power reactor or any facility possessing **SSNM** or its equipment or carrier equipment transporting nuclear fuel or spent nuclear fuel a facility or carrier possesses;		
	or		
[73.71] [73 Appendix G]	Interruption of normal operation of a licensed nuclear power reactor through the unauthorized use of or tampering with its machinery, components, or controls including the security system.		
[73.71] [73 Appendix G]	An actual entry of an unauthorized person into a protected area, material access area, controlled access area, vital area, or transport.		
[73.71] [73 Appendix G]	Any failure, degradation, or the discovered vulnerability in a safeguard system that could allow unauthorized or undetected access to a protected area, material access area controlled access area, vital area, or transport for which compensatory measures have not been employed.		

Enclosure 4.1

Events Requiring NRC Notification

4.1.2	Events Requiring ONE-HOUR REPORTS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
[73.71] [73 Appendix G]	The actual or attempted introduction of contraband into a protected area, material access area, vital area, or transport.		
4.1.2.10 [50.36] T.S.6.7	Violation of a safety limit.	4.1.2.10	As soon as practical and within 1 hour of occurrence. (Use Enclosure 4.2)
4.1.2.11 [McGuire Facility Operating License Conditions] NPF-9 NPF-17	Any accident at this facility which could result in an unplanned release of quantities of fission products in excess of allowable limits for normal operation established by the Commission.	4.1.2.11	As soon as practical and within 1 hour of occurrence. (Use Enclosure 4.2)

4.1.3	Events Requiring FOUR HOUR REPORTS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
4.1.3.1 [50.72b2(i)]	Any event found while the reactor(s) is/are shutdown, that had it been found while the reactor(s) was/were in operation would have resulted in the plant including its principle safety barriers, being seriously degraded or being in an unanalyzed condition that significantly compromises plant safety.	4.1.3.1	As soon as practical and within 4 hours of the occurrence. (Use Enclosure 4.2)
4.1.3.2 [50.72b2(ii)]	Any event or condition that results in manual or automatic actuation of any Engineered Safety Feature (ESF), including the Reactor Protection system (RPS), except when:	4.1.3.2	As soon as practical and within 4 hours of the occurrence. (Use Enclosure 4.2)
[50.72b2(ii)(A)]	The actuation results from and is part of a pre-planned sequence during testing or reactor operation;		
[50.72b2(ii)(B)]	The actuation is invalid and:		
[50.72b2(ii)(B)(1)]	Occurs while the system is properly removed from service;		
[50.72b2(ii)(B)(2)]	Occurs after the safety function has been already completed;		
	or		
[50.72b2(ii)(B)(3)]	The invalid actuation involves only the following specific ESFs or their equivalent systems;		
[50.72b2(ii)(B)(3)(i)]	Reactor water clean up system;		
[50.72b2(ii)(B)(3)(ii)]	Control Room emergency ventilation system;		
[50.72b2(ii)(B)(3)(iii)]	Reactor building ventilation system;		
[50.72b2(ii)(B)(3)(iv)]	Fuel building ventilation system;		
	or		
[50.72b2(ii)(B)(3)(v)	Auxiliary building ventilation system.		
	ESF ACTUATIONS		
	(1) Refer to Enclosure 4.3, Actuation of an Engineered Safety Feature or the Reactor Protection System for definition and examples.		
	(2) Any ESF Actuation listed in Technical Specification 3.3.2, Table 3.3-3		

Enclosure 4.1

Events Requiring NRC Notification

4.1.3	Events Requiring FOUR HOUR REPORTS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
	RPS ACTUATIONS		
	(1) Any RPS Actuation listed in Technical Specification 3.3.1, Table 3.3-1		
4.1.3.3 [50.72b2(iii)]	Any event or condition that alone could have prevented the fulfillment of the safety function of structures or systems that are needed to:	4.1.3.3	As soon as practical and within 4 hours of the occurrence. (Use Enclosure 4.2)
[50.72b2(iii)(A)]	Shutdown the reactor and maintain it in a safe shutdown condition.		
[50.72b(iii)(B)]	Remove residual heat		
[50.72b2(iii)(C)]	Control the release of radioactive material		
	or		
[50.72b2(iii)(D)]	Mitigate the consequences of an accident.		
4.1.3.4 [50.72b2(iv)(A)]	Any airborne radioactive release that, when averaged over a time period of 1 hour, results in concentrations in unrestricted area that exceed 20 times the applicable concentration specified in appendix B to section 20.1001-20.2401, table 2, column 1, of part 20 of this chapter. (Immediate Notifications made under this paragraph also satisfy the requirements of section 20.2202 of this chapter.)	4.1.3.4	As soon as practical and within 4 hours of the occurrence. (Use Enclosure 4.2)
4.1.3.5 [50.72b2(iv)(B)]	Any liquid effluent release that, when averaged over a time period of 1 hour, exceeds 20 times the applicable concentration specified in appendix B to section 20.1001-20.2401, table 2 column 2 of part 20 of this chapter, at the point of entry into the receiving waters (i.e. unrestricted area) for all radionuclides except tritium and dissolved noble gases. (Immediate notifications made under this paragraph also satisfy the requirements of section 20.2202 of this chapter).	4.1.3.5	As soon as practical and within 4 hours of the occurrence. (Use Enclosure 4.2)

4.1.3	Events Requiring FOUR HOUR REPORTS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
{50.72b2(v)}	**NOTE:** NRC notification should NOT be made related to offsite notification for exceeding environmental permit limits or for other events with no environmental impact unless recommended by Environmental Management personnel. For environmental events, determination of reportability on a case-by-case basis has been authorized by NRC/ONRR letter of interpretation dated May 17,1996. Any event requiring the transport of a radioactively contaminated person to an offsite medical facility for treatment. (Notify NRC per RP/0/A/5700/010, contact Carolinas Medical Center per RP/0/A/5700/005).		As soon as practical and within 4 hours of the occurrence (Use Enclosure 4.2)

4.1.3	Events Requiring FOUR HOUR REPORTS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
4.1.3.6 [50.72b2(vi)]	Any event or situation, related to the health and safety of the public or onsite personnel, or protection of the environment, for which a news release is planned or notification to other government agencies has been or will be made. Such an event may include an onsite fatality or inadvertent release of radioactively contaminated materials.	4.1.3.6	As soon as practical and within 4 hours of the occurrence. (Use Enclosure 4.2)
[50.72b2(vii)]	Any instance of:		
[50.72b(vii)(A)]	A defect in any spent fuel storage cask structure, system, or component which is important to safety;		
	or		
[50.72b2(vii)(B)]	A significant reduction in the effectiveness of any spent fuel storage cask confinement system during use of the storage cask under a general license issued under section 72.210 of this chapter.		

4.1.4	Events Requiring TWENTY-FOUR HOUR REPORTS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
4.1.4.1 [20.2202b]	Any event involving loss of control of licensed material possessed by the licensee that may have caused, or threatens to cause any of the following conditions:	4.1.4.1	Within 24 hours of discovery of the event. (Use Enclosure 4.2)
[20.2202b1]	An individual to receive in a period of 24 hours-		
[20.2202b1(i)]	A total effective dose equivalent exceeding 5 rems (0.05 Sv);		
	or		
[20.2202b1(ii)]	An eye dose equivalent exceeding 15 rems (0.15 Sv);		
	or		
[20.2202b1(iii)]	A shallow dose equivalent to the skin or extremities exceeding 50 rems (0.5 Sv);		
	or		
[20.2202b2]	The release of radioactive material inside or outside of a restricted area, so that, had an individual been present for 24 hours, the individual could have received an intake in excess of one occupational annual limit on intake (the provisions of this paragraph do not apply to locations where personnel are not normally stationed during routine operation, such as hot-cells or process enclosures).		
4.1.4.2 [26.73]	Significant events involving fitness for duty including;	4.1.4.2	
[26.73]	Sale, use, or possession of illegal drugs within the protected area		
	and		
	Any acts by any person licensed under 10CFR part 55 to operate a power reactor or by any supervisory personnel assigned to perform duties with the scope of this part		
	Involving the sale, use or possession of a controlled substance,		

Enclosure 4.1

Events Requiring NRC Notification

4.1.4	Events Requiring TWENTY-FOUR HOUR REPORTS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
	Resulting in confirmed positive tests on such persons,		
	Involving use of alcohol with the protected area,		
	or		
	Resulting in a determination of unfitness for scheduled work due to the consumption of alcohol.		
4.1.4.3 McGuire Facility Operating License Conditions	Unit operation exceeding 3411 mw thermal *(see note) {PIP-0-M-99-0874}	4.1.4.3	The licensee shall report any violations of these requirements within 24 hours by telephone and confirm by telegram, mailgram, or facsimile transmission to the NRC Regional Administrator, Reg. II, or his designate, no later than the first working day following the violation, with a written follow-up report within 14 days.
	Failure to implement effect all provisions of the approved fire protection program.		
	Failure to fully implement and maintain in effect all provisions of the Commission-approved physical security, guard training and qualification, and safeguards contingency plans including amendments.		

NOTE:

1. Technical Specification defines Rated Thermal Power as the total core heat transfer rate of 3411 MWT. It is desirable to operate as near this point as practical in order to maximize utilization of available capacity. This provides specific guidelines for "maximizing capacity available" while still operating within technical specification and license limits.
2. The following does not imply that unit power may be intentionally increased above 100% Full Power (F.P.). This does permit slight variations above 100% F. P. as a result of instrument variations, control instabilities, etc.
3. The average power level as indicated by computer heat balance calculations over any twelve-hour shift should not exceed the "full steady state power level" of 3411 MWT. It is permissible to briefly exceed the "full steady state licensed power level" by as much as 2% for as long as 15 minutes. In no case should 102% full power be exceeded.
4. Lesser variations for longer periods are permitted within the above guidelines. For example:

Power level (Maximum)	Time interval Permitted
102.0%	15 Minutes
101.0%	30 Minutes
100.5%	60 Minutes

There are no limits on the times these variations may occur, or the time intervals that may separate such variations other than the limit regarding the twelve hour average power.

4.1.5	"FOLLOWUP NOTIFICATION" REQUIREMENTS: REPORTABLE EVENTS Corresponding 10CFR Section in Brackets [ ]	REPORTING TIME REQUIREMENTS	
4.1.5.1 [50.72c]	During the course of the event, report:	4.1.5.1	Immediately (Use Enclosure 4.2)
[50.72c1(i)]	Any further degradation in the level of safety of the plant or other worsening plant conditions, including those that require the declaration of any of the Emergency Classes, if such a declaration has not been previously made,		
	or		
[50.72c1(ii)]	Any change from one Emergency Class to another		
	or		
[50.72c1(iii)]	Termination of an Emergency Class		
[50.72c2(i)]	The results of ensuing evaluations or assessments of plant conditions,		
[50.72c2(ii)]	The effectiveness of response or protective measures taken		
	and		
[50.72c2(iii)]	Information related to plant behavior that is not understood.		

Enclosure 4.2

NRC Event Notification Worksheet

STATE: "THIS IS THE McGUIRE NUCLEAR SITE IN NRC REGION 2 MAKING AN EVENT NOTIFICATION REPORT"

NOTIFICATION TIME/DATE	UNIT	CALLER'S NAME	CALLBACK TELEPHONE #: ENS 256-9003 or (704) - 875-6044	NRC OPERATIONS OFFICER CONTACTED

EVENT TIME & ZONE	EVENT DATE	POWER/MODE BEFORE	POWER/MODE AFTER
_____ Region II (time) (zone)			

EVENT CLASSIFICATIONS
☐ GENERAL EMERGENCY
☐ SITE AREA EMERGENCY
☐ ALERT
☐ UNUSUAL EVENT
☐ 50.72 NON-EMERGENCY
☐ PHYSICAL SECURITY (73.71)
☐ TRANSPORTATION (10 CFR 20)
☐ MATERIAL/EXPOSURE (10 CFR 20)
☐ OTHER

1-Hr Non-Emergency 10 CFR 50.72(b)(1)	
☐ (50.72 b1 (I)(A))	TS Required S/D
☐ (50.72 b1 (I)(B))	TS Deviation
☐ (50.72 b1 (II))	Degraded Condition
☐ (50.72 b1 (II)(A))	Unanalyzed Condition
☐ (50.72 b1 (II)(B))	Outside Design Basis
☐ (50.72 b1 (II)(C))	Not Covered by OPs/EPs
☐ (50.72 b1 (III))	Earthquake
☐ (50.72 b1 (III))	Flood
☐ (50.72 b1 (III))	Hurricane
☐ (50.72 b1 (III))	Ice/Hail
☐ (50.72 b1 (III))	Lightning
☐ (50.72 b1 (III))	Tornado
☐ (50.72 b1 (III))	Other Natural Phenomenon
☐ (50.72 b1 (IV))	ECCS Discharge to RCS
☐ (50.72 b1 (V))	Lost ENS
☐ (50.72 b1 (V))	Lost Other Assess./Comms.
☐ (50.72 b1 (V))	Emergency Siren INOP
☐ (50.72 b1 (VI))	Fire
☐ (50.72 b1 (VI))	Toxic Gas
☐ (50.72 b1 (VI))	Rad Releases
☐ (50.72 b1 (VI))	Other Hampering Safe Op.

4-Hr Non-Emergency 10 CFR 50.72(b)(2)	
☐ (50.72 b2 (I))	Degraded While S/D
☐ (50.72 b2 (II))	RPS Actuation (scram)
☐ (50.72 b2 (II))	ESF Actuation
☐ (50.72 b2 (III)(A))	Safe S/D Capability
☐ (50.72 b2 (III)(B))	RHR Capability
☐ (50.72 b2 (III)(C))	Control of Rad Release
☐ (50.72 b2 (III)(D))	Accident Mitigation
☐ (50.72 b2 (IV)(A))	Air Release > 20X App B
☐ (50.72 b2 (IV)(B))	Liq Release > 20X App B
☐ (50.72 b2 (V))	Offsite Medical
☐ (50.72 b2 (VI))	Offsite Notification

24-Hr. Non-Emergency
☐ McGuire Facility Operating License Conditions
☐ Material/Exposure (10CFR20)
☐ 26.73 Significant events involving fitness for duty.

1 Hr Non-Emergency	
☐ (70.52) (a) and (b)	Accidental Criticality or loss or theft of SNM
☐ (50.36) (T.S.6.7)	Violation of a safety limit
☐ MNS Facility Operating License Conditions	

EVENT DESCRIPTION

Include: Systems affected, actuation's & their initiating signals, causes, effect of event on plant, actions taken or planned, etc.

Continue on Enclosure 4.2 page 2 of 2 if necessary.

NOTIFICATIONS	YES	NO	WILL BE
NRC RESIDENT			
STATE(s)			
LOCAL			
OTHER GOV AGENCIES			
MEDIA/PRESS RELEASE			

ANYTHING UNUSUAL OR NOT UNDERSTOOD? ☐ YES ☐ NO

(Explain above)

DID ALL SYSTEMS FUNCTION AS REQUIRED YES ☐ ☐ NO

(Explain above)

MODE OF OPERATION UNTIL CORRECTED	EST. RESTART DATE:	ADDITIONAL INFOR ON BACK ☐ YES ☐ NO

APPROVED BY: _____ TIME/DATE: _____ ____/____/____

Operations Shift Manager/Emergency Coordinator (eastern) mm dd yy

Enclosure 4.2

NRC Event Notification Worksheet

RADIOLOGICAL RELEASES: CHECK OR FILL IN APPLICABLE ITEMS (specific details/explanations should be covered in event description)

LIQUID RELEASE	GASEOUS RELEASE	UNPLANNED RELEASE	PLANNED RELEASE	ONGOING	TERMINATED
MONITORED	UNMONITORED	OFFSITE RELEASE	T.S. EXCEEDED	RM ALARMS	AREAS EVACUATED
PERSONNEL EXPOSED OR CONTAMINATED		OFFSITE PROTECTIVE ACTIONS RECOMMENDED		State release path in description	

NOTE: Contact Radiation Protection Shift to obtain the following information.

IF the notification is due and the information is not available,
THEN mark "Not Available" and complete the notification.

	Release Rate (Ci/sec)	% T.S. LIMIT	HOO GUIDE	Total Activity (Ci)	% T.S. LIMIT	HOO GUIDE
Noble Gas			0.1 Ci/sec			1000 Ci
Iodine			10 uCi/sec			0.01 Ci
Particulate			1 uCi/sec			1 mCi
Liquid (excluding tritium & dissolved noble gases)			10 uCi/min			0.1 Ci
Liquid (tritium)			0.2 Ci/min			5 Ci
Total Activity						

RECORD MONITORS IN ALARM	PLANT STACK (EMF 35, 36, 37)	CONDENSER/ AIR EJECTOR (EMF 33)	MAIN STEAM LINE (UNIT 1-EMF 24,25,26,27 UNIT 2-EMF 10, 11, 12,13)	SG BLOWDOWN (EMF 34)	OTHER
RAD MONITOR READINGS:					
ALARM SETPOINTS: TRIP II					
% T.S. LIMIT (If applicable)		NOT APPLICABLE		NOT APPLICABLE	

RCS OR SG TUBE LEAKS: CHECK OR FILL IN APPLICABLE ITEMS (specific details/explanations should be covered in event description)

LOCATION OF THE LEAK (e.g. SG#, valve, pipe, etc.):

LEAK RATE: gpm/gpd	T.S. LIMITS EXCEEDED:	SUDDEN OR LONG TERM DEVELOPMENT:
LEAK START DATE: TIME:	COOLANT ACTIVITY: (Last Sample)	PRIMARY / SECONDARY
	Xe eq_____mCi/ml	Xe eq_____mCi/ml
	Iodine eq. _____mCi/ml	Iodine eq. _____mCi/ml

LIST OF SAFETY RELATED EQUIPMENT NOT OPERATIONAL:

EVENT DESCRIPTION (Continued from Enclosure 4.2 page 1 of 2)

Actuation of An Engineered Safety Feature or the Reactor Protection System

§50.72(b)(2)(ii)	§50.73(a)(2)(iv)
Licensees shall report "any event or condition that results in manual or automatic actuation of any Engineered Safety Feature (ESF), including the Reactor Protection System (RPS). However, actuation of an ESF, including the RPS, that results from and is part of the preplanned sequence during testing or reactor operation need not be reported."	Licensees shall report "any event or condition that resulted in a manual or automatic actuation of any Engineered Safety Feature (ESF), including the Reactor Protection System (RPS). However, actuation of an ESF, including the RPS, that resulted from and was part of the preplanned sequence during testing or reactor operation need not be reported."

1. Definitions

   a. Engineered Safety Feature (ESF): Engineered Safety Features are the provision in the plant which serve to: (1) control reactor fission products which may leak from the fuel by assuring their retention in the Reactor Coolant System (RCS), (2) control and limit the consequences of energy and radioactivity within the containment, and (3) provide adequate cooling of the core under all circumstances. Those ESF systems specific to each station are listed in Enclosure 4.3, page 4 of 4.

   b. ESF/RPS Actuation: (1) Receipt of a Solid State Protection System (SSPS) signal(s) necessary to activate the ESF/RPS system, or (2) manual or automatic actions that activate the ESF/RPS system without the presence of an SSPS signal(s).

   c. Preplanned Actuation: A preplanned ESF actuation is the initiation of a particular ESF as called for by an approved operating or testing procedure.

   d. Properly Removed From Service: The component or system is intentionally mechanically or electrically disabled such that is not capable of performing its intended safety function, and all requirements of station procedures for removing equipment from service has been met (e.g., required clearance documentation, equipment and control board tagging, etc.).

2. Reportability

All ESF actuations, including actuations of the RPS, are reportable regardless of the plant operating mode or the significance of the structure, system, or component that initiated the event or whether initiated manually or automatically. The fact that the safety analysis assumes that an ESF system will actuate automatically under certain plant conditions does not preclude the need to report such actuations.

3. Reporting Exceptions

Actuations that need not be reported are those initiated for reasons other than to mitigate the consequences of an event (e.g., preplanned actuations and ESFs that have been properly removed from service and not required to be operable. However, if the ESF actuates during the planned operation or test in a way that is not part of the planned procedure, such as at the wrong step, that event is reportable).

EXAMPLES

{For the reportable examples provided, assume the actuation is not part of a pre-planned sequence in a procedure and the system has not been removed from service}.

a. Any manual or automatic actuation of the reactor trip switchgear is reportable.

b. Initiation of a containment isolation signal constitutes an ESF actuation whether or not the containment isolation valve actually repositions.

c. The opening of a Hydrogen Skimmer fan header isolation valve and the subsequent starting of a Hydrogen Skimmer fan is an ESF actuation.

d. The starting of any of the ECCS pumps to mitigate the consequences of a significant event is an ESF actuation.

e. The automatic start of a standby train of Control Room Ventilation constitutes an ESF actuation. (MNS and CNS)

f. Any manual or automatic actuation of the Auxiliary Feedwater (CA) system is reportable (MNS and CNS)

g. Unplanned Diesel Generator starts resulting from ES Channel 1 or 2 signals, are reportable.

h. The operation of Auxiliary Building ventilation in the filtered mode is an ESF function.

i. During a significant operational transient, an "ice condenser door open" alarm was received in the Control Room. This is a reportable event because some condition existed during the transient that caused the alarm to be received. Generally, if the Ice Condenser doors are off their seals, the equipment is considered actuated.

Non-Reportable

a. Swaps of Nuclear Service Water pump's suction from the lake to the Standby Nuclear Service Water pond is not reportable.

b. No equipment actuation because of a signal generated by EMF's (radiation monitors) is considered to be an ESF actuation.

Enclosure 4.3

Actuation of An Engineered Safety Feature or the Reactor Protection System

ENGINEERING SAFETY FEATURES

1. Containment Isolation Systems
   a. Phase A
   b. Phase B
2. Containment Heat Removal
   a. Ice Condenser
   b. Air Return Fans
   c. Containment/Reactor Building Spray
3. Secondary Containment
   a. Annulus Ventilation
4. Combustible Gas Control in Containment
   a. Hydrogen Recombiners
   b. Air Return and Skimmer Fans
   c. Hydrogen Purge
   d. Hydrogen Igniters
5. Emergency Core Cooling System
   a. NV
   b. NI
   c. ND
   d. CLA/CFT
   e. FWST/BWST
      1) Containment Sump Swapover
6. Habitability Systems
   a. Control Room Ventilation or Blackout Signal
7. ESF Filter Systems
   a. Auxiliary Building Filtered Exhaust or Blackout Signal
8. Auxiliary Feedwater System
9. Diesel Generator Starts
10. Reactor Protection System
11. Turbine Trip per T.S. Table 3.3.1-1
12. Steam Line Isolation
13. Feedwater Isolation
14. 4KV Undervoltage

(R06-97)

Duke Power Company
PROCEDURE PROCESS RECORD

(1) ID No. RP/0/A/5700/015
Revision No. 008

PREPARATION

(2) Station **McGuire Nuclear Station**

(3) Procedure Title Notifications to the State and Counties from the Emergency Operations Facility

(4) Prepared By _____ Date 7/20/99

(5) Requires 10CFR50.59 evaluation?

- [x] Yes (New procedure or revision with major changes)
- [ ] No (Revision with minor changes)
- [ ] No (To incorporate previously approved changes)

(6) Reviewed By _____ (QR) Date 9/29/99

Cross-Disciplinary Review By _____ (QR) NA AHB Date 9/29/99

Reactivity Mgmt. Review By _____ (QR) NA AHB Date 9/29/99

(7) Additional Reviews

Reviewed By _____ Date 9/30/99

Reviewed By _____ Date _____

(8) Temporary Approval *(if necessary)*

By _____ (SRO/QR) Date _____

By _____ (QR) Date _____

(9) Approved By _____ Date 1/24/2000

PERFORMANCE (Compare with Control Copy every 14 calendar days while work is being performed.)

(10) Compared with Control Copy _____ Date _____

Compared with Control Copy _____ Date _____

Compared with Control Copy _____ Date _____

(11) Date(s) Performed _____

Work Order Number (WO#) _____

COMPLETION

(12) Procedure Completion Verification

- ☐ Yes ☐ N/A Check lists and/or blanks initialed, signed, dated or filled in NA, as appropriate?
- ☐ Yes ☐ N/A Listed enclosures attached?
- ☐ Yes ☐ N/A Data sheets attached, completed, dated and signed?
- ☐ Yes ☐ N/A Charts, graphs, etc. attached, dated, identified, and marked?
- ☐ Yes ☐ N/A Procedure requirements met?

Verified By _____ Date _____

(13) Procedure Completion Approved _____ Date _____

(14) Remarks *(attach additional pages, if necessary)*

Duke Power Company McGuire Nuclear Station **Notifications to the State and Counties from the Emergency Operations Facility** **Multiple Use**	Procedure No. RP/**0**/A/5700/015 Revision No. 008 Electronic Reference No. MC0048MI

Notifications to the State and Counties from the Emergency Operations Facility

1. Symptoms

An emergency has been declared and an Off-site Agency notification is required.

2. Immediate Actions

_____ 2.1 Contact the TSC Off-site Agency Communicators (via Selective Signaling if not in use) to inform them that you will be checking communications with the Off-site Agencies.

NOTE: Go to RP/0/A/5700/014, Tab 1 for Emergency Response Numbers.

2.1.1 Verify communications with off-site agencies.

2.1.2 Determine when the next notification is due: _____ (Time). Next message number: _____.

2.1.3 Update "Next Message Due" on the following "White Boards":

- EOF Director's Area
- Offsite Agency Communicator Area.

2.1.4 Power up/check printers, fax machines, copiers, etc.

2.1.5 Obtain a copy of the Authentication code word list from the McGuire procedure cabinet in the EOF Director's area.

_____ 2.2 Provide copies of previously transmitted message forms to:

- EOF Director
- Emergency Planner
- Accident Assessment Manager
- Radiological Assessment Manager
- News Group
- NC State Liaison
- Off-site Agency Communicator (lead)
- Off-site Agency Communicator (ENF writer)
- Log Recorder
- Staff Support (Status Board Personnel)
- Accident Assessment Group
- Dose Assessment Group
- Wall Folder (2 copies)
- Field Monitoring Coordinator {PIP-0-M-99-5381}.

_____ 2.3 Have one of the EOAC's arrange for 24 hour EOAC coverage.

_____ 2.4 Power up and log on to the Off-site Communicator computer by using the following:

- Log on ID - EOFWS
- Password - Depress Enter.

_____ 2.5 **WHEN** logged on the computer, **THEN** open new ENF form per Enclosure 4.1, Step 1. {PIP-0-M-99-2301}

_____ 2.6 Verify that the electronic ENF can also be accessed by:

_____ Off-site Agency Communicator _____ Accident Assessment

_____ Radiological Assessment _____ EOF Director.

NOTE: Certain events could occur at the plant site such that both units are affected. These may include: #4.1.1 - High Radiation / Radiological Effluents, #4.1.7 - Fires and Security Actions, #4.1.9 - Natural Disasters and Other Hazards, and #4.1.10 - Other Abnormal Plant Conditions from RP/0/A/5700/000, (Classification of Emergency). Consider this when completing the "unit designation" on line 2 of the Emergency Notification Form. {PIP 0-M97-4638}

_____ 2.7 **IF** the Electronic ENF program is **NOT** operational, **THEN** go to Enclosure 4.2 for manual completion and Enclosure 4.5 for standard transmission of the ENF.

_____ 2.8 Inform the EOF Director, Accident Assessment Manager and Radiological Assessment Manager when next notification is due.

_____ 2.9 Notify the EOF Director as soon as EOF Communicators are ready to take over communications to the Off-site Agencies.

2.10 After the EOF Director declares the EOF activated, contact the TSC to:

_____ 2.10.1 Verify EOF has responsibility for communication and will transmit next message.

_____ 2.10.2 Verify which agencies are participating.

_____ 2.10.3 Synchronize Off-site Agency Communicator computer clock with TSC.

_____ 2.11 Go to Enclosure 4.4 for suggested individual communicator duties.

3. Subsequent Actions

NOTE: Follow-up messages of a lesser classification should never be approved after an upgrade to a new classification is declared. Emphasis should be placed on providing current information and **not** on providing a follow-up just to meet follow-up deadline. **IF** a follow up is due and an upgrade in classification is declared, **THEN** the Off -Site Agency Communicators should contact the agencies that the pending follow-up is being superseded by an upgrade in classification and information will be provided within 15 minutes.

——— 3.1 Immediately following EOF activation, go to Enclosure 4.1 to prepare for next ENF transmission.

——— 3.2 **IF** notified by any agency EOC that they are now active, and in charge, **THEN** contact the agency Warning Point (WP), **AND** determine if they desire to be maintained in the communication loop.

4. Enclosures

4.1 Electronic Emergency Notification Form (ENF) Logon/Completion/Transmission.

4.2 Emergency Notification Form (ENF) Manual Completion.

4.3 Communications Systems.

4.4 Off-site Agency Communicator Duties

4.5 Fax Operations (Manual).

4.6 Emergency Notification Form.

Enclosure 4.1

Electronic Emergency Notification Form (ENF) Logon/Completion/Transmission

1. Electronic Emergency Notification Form Logon

1.1 Log on to the Electronic Notification Form by performing the following:

_____ 1.1.1 Double click the Notification Form Icon found under the Notification Form Program Group.

_____ 1.1.2 Enter user ID (LAN ID) and password ("PASSWORD").

2. Electronic Emergency Notification Form Completion

_____ 2.1 Initiate a new Notification Form by choosing the "**New Emergency Notification**" button and then press **ENTER**. If one has already been initiated by one of the other editing groups, choose the "**Edit the current Emergency Notification**" and then press **ENTER**. In this case, confirm who initiated and verify it is a valid form.

_____ 2.2 When the Emergency Notification Form is displayed, reduce the page screen size by selecting "**View**" and then "**75%**".

NOTE:	The green triangle on the section numbers indicate the section has not been completed. When the section is complete, the triangle will turn red.

_____ 2.3 Click on Section 1.

_____ 2.4 Complete the applicable portion (Lines 1 and 2) of the Off-site Communicator section (Section 1). Lines 3 and 4 will be completed during Notification Form transmission. This data can be edited later if necessary.

2.5 Inform the following EOF staff of the next message due time:

_____ Accident Assessment _____ Rad Assessment _____ EOF Director.

_____ 2.6 Monitor completion of the other sections to ensure Notification Form is being completed. Refer to Enclosure 4.2 (Emergency Notification Form Completion) if needed.

_____ 2.7 When all appropriate sections have been completed, prompt the EOF Director to review entire Notification Form and complete Line 16.

3. Electronic Emergency Notification Form Transmission

_____ 3.1 Once the EOF Director has approved the ENF, re-access the Off-site Communicator section (Section 1). Proceed through the Section to the Transmittal Time window.

NOTE: Refer to Enclosure 4.3 for Selective Signaling Alternate Communications instructions.

_____ 3.2 **IF** initial notification, **THEN** establish communications with Off-site Agencies via the Selective Signaling phone.

_____ 3.3 **IF** follow-up notification, **THEN** enter current date and time on line 3 (transmitted time) and go to step 3.8.

NOTE: All initial notifications are verbal. Avoid using abbreviations or jargon likely to be unfamiliar to the state and counties. If any information is not available or not applicable, write out "Not Available" or "No Applicable" in margin or other space as appropriate. Do not abbreviate "N.A.".

_____ 3.4 As the State and Counties answer check them off on the back of notification form. At least one attempt using the individual selective signaling code must be made for missing agencies. **Proceed with the notification promptly following an attempt to get missing agencies on the line.**

NOTE: If you click the exclamation mark button to the right, the current time and date will be entered.

_____ 3.5 Enter the Transmittal date and time. Click "NEXT" to continue to the next window of this section.

_____ 3.6 Ask one of the agencies to authenticate the call. Have the agency provide a number from the Authentication Code Word List and then provide the corresponding word.

_____ 3.7 Enter the Authentication number and code word and then click the Finish button or press Enter.

_____ 3.8 Immediately print out a copy by clicking the print button at the top of the page.

3.9 FAX the Electronic Notification Form to the off-site agencies as follows:

_____ 3.9.1 Click on the FAX button.

3.9.2 When the LanFax Phone Book comes up:

_____ A. Click on TO.

_____ B. FOR DRILLS, click on McGuire Drill.

_____ C. For ACTUAL EMERGENCY, click on McGuire Emergency.

_____ D. Click on Add.

_____ E. Click on OK.

_____ 3.9.3 Click on Send Button .

_____ 3.10 Read the message beginning with item #1 allowing time to copy.

_____ 3.11 Call the off-site agencies to verify they received the fax.

_____ 3.12 As the State and Counties answer check them off on the back of notification form. At least one attempt using the individual selective signaling code must be made for missing agencies. **Proceed with the notification promptly following an attempt to get missing agencies on the line.**

_____ 3.13 Upon completion of initial notification of the message transmission, obtain the names of the Off-site Agency representatives. Record the names on the back of the hard copy of the electronic ENF **OR** on Enclosure 4.6, page 2 of 2. (Additional copies of Enclosure 4.6, page 2 of 2 are located in the Off-site Agency Communicator's Notebook.).

_____ 3.14 Upon completion of follow-up notification, call the off-site agencies and record the names on the back of the hard copy of the ENF **OR** on Enclosure 4.6, page 2 of 2. (Additional copies of Enclosure 4.6, page 2 of 2 are located in the Off-site Agency Communicator's Notebook.).

NOTE: If a question is outside of ENF information, do not answer the question.

_____ 3.15 Inform the agencies that "This concludes message #_____. Are there any questions?"

- Authenticate the request (if question is a return call)
- Have the request evaluated by the EOF Director
- Document the question and answer, and the time the answer was transmitted on the log sheet in the Off-site Agency Communicator's Notebook.

_____ 3.16 Continuous attempts to contact missing agencies must be made if unable to complete the notification per step 3.1.2. Document the time these agencies were contacted on the back of the notification form.

_____ 3.17 Repeat the above steps beginning with step 2.1 as necessary to communicate other initial and follow-up messages.

——— 3.18 Direct the EOF Director to sign the hard copy for documentation purposes. Retain this hard copy to include names of the agency representatives when message transmission is complete.

——— 3.19 Provide hard copies of the Emergency Notification Form to the groups listed in step 2.2, page 2 of 4, in body of this procedure.

——— 3.20 Update next message due on the following white boards:

- Offsite Agency Communicators Area
- EOF Director's Area.

4. Termination Message

NOTE:
1. When terminating from a General Emergency, "No Recommended Protective Action" HAS to be selected in the Electronic Notification Form program.
2. Termination notifications are communicated **verbally**.
3. Termination notification is marked as a Follow-up.

——— 4.1 Click on Section 1 button and complete the first two screens of the Off-Site Communicator section (Lines 1 and 2). (The last two screens [Lines 3 and 4] will be completed during Notification Form transmission). Data can be edited later if necessary.

4.2 Click on Section 2 and enter the appropriate information.

_____ 4.2.1 Classification being terminated.

_____ 4.2.2 Time and date of termination.

_____ 4.2.3 Enter that "The event (or Drill) has been terminated.

_____ 4.2.4 Mark 'Improving" for Plant Condition.

_____ 4.2.5 Enter the Reactor Status.

_____ 4.2.6 Mark "No Recommended Protective Actions".

4.3 Click on Section 3 and enter the appropriate information.

_____ 4.3.1 Mark "None" for Emergency Releases.

_____ 4.3.2 Enter Meteorological information.

Electronic Emergency Notification Form (ENF) Logon/Completion/Transmission

_____ 4.4 After Sections 2 and 3 are complete, have the EOF Director review the form and complete Section 4.

_____ 4.5 As the State and Counties answer check them off on the back of the notification form. At least one attempt using the individual selective signaling code must be made for the missing agencies. **Proceed with the notification promptly following and attempt to get missing agencies on the line.**

_____ 4.6 When all available parties are verified on the line, read the following statement: "This is McGuire Nuclear Site EOF, this is a drill or actual emergency" (whichever applies).{PIP-0M-99- 0911}

_____ 4.7 Enter the Transmittal date and time. Click "NEXT" to continue to the next window of this section. {PIP-0M-99-0911}

_____ 4.8 Ask one of the agencies to authenticate the call. Have the agency provide a number from the Authentication Code Work List and then provide the corresponding word. {PIP 0-M98-3946}

_____ 4.9 Enter the Authentication number and code word and then click the Finish button or press Enter. {PIP 0-M98-3946}

_____ 4.10 Immediately print out a copy by clicking the print button at the top of the page. {PIP 0-M98-3946}

_____ 4.11 Read the termination message to the Off-site Agencies, **THEN** record the individuals' names and time on the back of the ENF **OR** on Enclosure 4.6, page 2 of 2.

4.12 FAX the Electronic Notification Form to the off-site agencies as follows:

_____ 4.12.1 Click on FAX button.

4.12.2 When the LanFax Phone Book comes up:

_____ 4.12.2.1 Click on TO.

_____ 4.12.2.2 FOR DRILLS, click on McGuire Drill.

_____ 4.12.2.3 For ACTUAL EMERGENCY, click on McGuire Emergency.

_____ 4.12.2.4 Click on Add.

_____ 4.12.2.5 Click on OK.

_____ 4.12.3 Click on Send Button .

_____ 4.13 Call the off-site agencies to verify they received the fax.

_____ 4.14 Continuous attempts to contact missing agencies must be made if unable to complete the notification per step 3.12. Document the time there agencies were contacted on the back of the notification form.

4.15 Immediately perform the following: {PIP-0-M-99-2301}

_____ 4.15.1 Initiate a new ENF Form.

_____ 4.15.2 Notify the following a new form is available:

- Dose Assessors
- EOF Director
- Accident Assessment Manager.

Emergency Notification Form (ENF)
Manual Completion

1. Initial and Follow-up Completion

NOTE: For Initial Notification, only items 1-10, 15 and 16 are required. Items 11-14 may be skipped.

ENF Item #	Communicator Action	Info Source/EOF
1.	Check the appropriate blocks. Message #'s are sequentially numbered throughout the drill/emergency starting with the Control Room.	
2.	Write in the unit or units affected and the phone communicator's name (Reported By).	
3.	Write in the transmittal time, date, confirmation phone number. For Initial: when all agencies are on line. For Follow-up: when ENF is faxed.	
4.	Document Authentication while transmitting notification.	
5.	Check appropriate classification.	Accident Assess. Mgr.
6.	Mark appropriate box and write time and date current classification was declared.	Accident Assess. Mgr.

7.	**FOR INITIAL AND FOLLOW-UP NOTIFICATIONS:** Enter a brief description of the reason for declaring the emergency classification (in layman's terms, if possible). **DO NOT** use system abbreviations, acronyms or jargon which may cause confusion. Instead, write out the description in long hand. Be sensitive to the fact that certain descriptive technical terms may elicit unanticipated reactions from others. {PIP 0-M98-2065} **AND** **FOR FOLLOW-UP NOTIFICATIONS:** In addition, provide a description of changes in plant conditions since the last notification. Items to be considered for inclusion are as follows: {PIP 0-M98-2065} • Other unrelated classifiable events (for example, during an Alert, an event which, by itself would meet the conditions for an Unusual Event) • Major/Key Equipment Out of Service • Emergency response actions underway • Fire(s) onsite • Flooding related to the emergency • Explosions • Loss of Offsite Power • Core Uncovery • Core Damage • Medical Emergency Response Team activation related to the emergency • Personnel injury related to the emergency or death • Transport of injured individuals offsite - specify whether contaminated or not • Site Evacuation/relocation of site personnel • Saboteurs/Intruders/Suspicious devices/Threats • Chemical or Hazardous Material Spills or Releases • Extraordinary noises audible offsite • Any event causing/requiring offsite agency response • Any event causing increased media attention • Remember to "close the loop" on items from previous notifications.	Accident Assess. Mgr.

8.	Mark appropriate plant condition. {PIP 0-M97-4210 NRC-1} • **Improving**: Emergency conditions are improving in the direction of a lower classification or termination of the event. • **Stable:** The emergency situation is under control. Emergency core cooling systems, equipment, plans, etc., are operating as designed. • **Degrading**: Given current and projected plant conditions / equipment status, recovery efforts are not expected to prevent entry into a higher emergency classification or the need to upgrade offsite Protective Action Recommendations.	
9.	Write time and date of Reactor Shutdown or Reactor Power level as applicable.	Accident Assess. Mgr.

10.	**NOTE:** **An emergency release is any unplanned, quantifiable discharge to the environment associated with a declared emergency event.** (This definition is based on an NRC commitment made on 11/30/90 following McGuire's Steam Generator Tube Rupture.) PIP 0-M97-4256} Check the appropriate box for emergency release. • **A** **NONE:** clearly no emergency release is occurring or has occurred. • **B** **POTENTIAL:** discretionary option for the EC or EOFD. • **C** **IS OCCURRING:** meets the specified conditions. • **D** **HAS OCCURRED:** previously met the specified conditions. Base the determination of emergency release on: • EMF readings, • Containment pressure and other indications, • Field monitoring results, • Knowledge of the event and its impact on systems operation and resultant release paths. **An emergency release is occurring if any one or more of the following bulleted conditions are met associated with a declared emergency:** • Either containment particulate, gaseous, iodine monitor (EMFs 38, 39 and/or 40) readings indicate an increase in activity, **OR** Containment monitor (EMFs 51A and/or 51B) readings indicate greater than 1.5R/hr, **AND** Either containment pressure is greater than 0.3 psig, **OR** An actual containment breach is known to exist. • Unit vent particulate, gaseous, iodine monitor (EMFs 35, 36, and/or 37) readings indicate an increase in activity. • Condenser air ejector exhaust monitor (EMF 33) or other alternate means indicate Steam Generator tube leakage. • Confirmed activity in the environment reported by Field Monitoring Team(s). • Knowledge of the event and its impact on systems operation and resultant release paths.	Rad. Assess. Mgr.

11.	Indicate type of release and time/date. Mark Ground Level for any airborne releases.	Rad. Assess. Mgr.
12.	Indicate release magnitude and whether release is above or below normal operating limits.	Rad. Assess. Mgr.
13.	Write estimate of projected off-site dose and estimated duration. Check new or unchanged. If unchanged from a previous notification, the information does not have to be repeated.	Rad. Assess. Mgr.
14.	Provide meteorological data.	Rad. Assess. Mgr.
15.	Indicate appropriate recommended protective actions as recommended by Duke Power and EOF Director.	Rad. Assess. Mgr.
16.	Have EOF Director approve message.	EOF Director

2. Termination Notification Completion

2.1. When the emergency/drill has been terminated, complete the ENF as described below.

NOTE: Termination Notifications are to be indicated as a follow-up message.

Line Item #	Action	Source of Information EOF
1.	Check appropriate block. Message #s are sequentially numbered throughout the drill/emergency starting with the Control Room.	
2.	Write in unit or units affected and the communicator's name (Reported By).	
3.	Write in the transmittal time. This is the time you verify all agencies are on the line. Write in the date.	
4.	Authentication will be completed while transmitting the notification to Off-site Agencies.	
5.	Check appropriate classification that is being terminated.	Acc. Assess. Mgr.
6.	Mark box "B" and write time and date of termination.	Acc. Assess. Mgr.
16.	Have EOF Director approve message.	EOF Director

The following is the suggested priority for the communications systems used to notify the Off-site Agencies.

NOTE: For 1-5, go to RP/A/5700/014, Tab 1 for emergency response numbers.

1. Selective Signaling System.
2. Commercial Telephone .
3. Programmable Conference telephones (for operating instructions, page 1 of 4).
4. County Emergency Response Radio (for operating instructions, page 2 of 4).
5. North Carolina Emergency Management Radio (for operating instructions, page 3 of 4).
6. Cellular Telephones (for operating instructions, page 4 of 4).

Programmable Conference Telephones

NOTE: These phones are located on the table with the Off-site Agency Communicator's computer.

The programmed conference telephone numbers are: 382-0723

382-0724

How to Program the Conference Telephone

1. Pick up the receiver, **PRESS** ABRV DIAL *, **PRESS** the storage number (Dial any digit 0-9), the ABREV. DIAL LAMP will light up and you will here a confirmation tone.
2. **DIAL** (the telephone number you want to store).
   Example: NC EOF 1-919-733-3943.
3. **HANG UP** (This stores the number).

How to Conference

NOTE: Go to RP/0/A/5700/014, Tab 1 for Emergency Response Numbers.

1. Pick up the receiver **PRESS** ABRV DIAL, **PRESS** the button (Agency), when they pick up tell them to hold, **PRESS** CONF.
2. Repeat step 1 until you have conferenced all of the appropriate agencies.

County Emergency Response Radio

NOTES: 1. This radio will only contact the county warning points. Contact the state on the North Carolina Emergency Management Radio.

2. Go to RP/0/A/5700/014, Tab 1 for Emergency Response Numbers.

Group Call

1. Turn the Power Switch **"ON".**

2. Turn the selector switch on the "Black Box" to - Position "A" McGuire.

3. Push **CLEAR** on the encoder.

4. Press **20** (Group Call). The encoder should automatically begin transmitting the tones on the radio as evidenced by the "PAGE" light. If it does not do this automatically, press the PAGE button. {PIP-0-M-99-2593}

5. When the talk light comes on, press the **bar** on the transmitter microphone and say

   "This is McGuire EOF to all counties, do you copy?"

   Once all available counties respond, begin transmitting the message.

   At least one attempt using the individual radio code must be made for the missing agencies.

   Proceed with the notification promptly following an attempt to get missing agencies on the air.

6. If a county fails to respond on the group call, press their individual code on the encoder and say

   'This is McGuire EOF to (Agency you are calling), do you copy?"

   Once the county responds, begin transmitting the message.

7. After you have finished transmitting the message, conclude the message by saying

   "This is WQC700 base clear."

8. Continuous attempts to contact missing agencies must be made if unable to complete the notification per step 5. Document the time these agencies were contacted on the back of the notification form.

NORTH CAROLINA EMERGENCY MANAGEMENT RADIO

NOTE: This radio will only contact the state.

To operate the radio:

1. Turn the Power Switch to "**ON**".
2. Select the appropriate frequency:
   a. Frequency 1 is the Emergency Management Frequency.
   b. Frequency 2 is the State Radiation Protection Frequency.
3. Turn the Frequency Switch to Frequency **1**.
4. Depress the bar labeled "**TRANSMIT**" on the microphone and say "WPDW704, this is WNLK241 Duke Power Emergency Operations Facility, Over" to initiate a call. Release the bar.
5. The state should respond "WNLK241, this is WPDW704, Over".
6. Once contact has been made with the state, depress the "**TRANSMIT**" bar again and send the message.
7. When the conversation is complete, conclude the call by saying 'WNLK241 Out" and release the bar.

CELLULAR TELEPHONES

Cellular Telephones are located in the chargers located on the table in the Communicator's Area.

Cellular Phone Numbers

(704) 572-3259

(704) 572-3261

A. To Place Calls

1. Press the **PWR** button.
2. Enter the telephone number, press **SND**.
3. To terminate the call, press and hold **END**.

B. Three Party Conference

1. Place the first call as in Step A.
2. Dial the second number and press **SND**.
3. If there is no answer or the number is busy, press **SND**.
4. To terminate the call, press **END**.

Enclosure 4.4

Off-site Agency Communicator Duties

Lead Person:

- Sign in on the white board in the EOF Director's area as the "Off-site Agency Communicator". Also sign in and ensure that the other EOF off-site agency communicators have signed in on the white board in the off-site agency communicator's area.
- Ensure adequate staffing of Emergency Off-site Agency Communicators (EOACs).
- Ensure all the EOACs have a copy of and understand the correct procedure and that they know their duties.
- Ensure that the EOACs are fit for duty prior to taking turnover from the site.
- Keep the EOF Director informed of progress in preparing to take turnover from the site. Ensure that the EOF promptly get copies of each site-issued Emergency Notification Form.
- Be the chief interface with the EOF Director.
- Have one of the EOACs arrange for 24 hour EOAC coverage.
- Check with dose assessment early and often to ensure that they don't delay an ENF. (It can take them 10 minutes to calculate doses so be sure that they have a 15 minute warning before we need their data. If they aren't comfortable with their data or if they run low on time, get the Radiological Assessment Manager involved at once -- **do not delay!)**
- Check with the News Group to coordinate ENF transmittals with their press conference schedule. Information should always be issued on an ENF before the News Group releases it. If requested, review and approve (signature required) news releases.
- Resolve any questions concerning procedure or actions (the Emergency Planner can help).
- Ensure that all messages (ENFs) are accurate, complete, and issued on time.
- Decide when to omit dose data on the ENF (in the interest of timeliness).
- Keep up with events as they unfold for potential inclusion on the ENF. Ensure that events (e.g. injuries, fires, intruders, etc.) are reported and that later ENF's follow-up on those events and report their resolution ("close the loop").
- Proofread the ENF prior to giving it to the EOF Director for approval. Give the EOF Director sufficient time to review/change the ENF.
- Work with the Commodities and Facilities group to fix any problems with the FAX machines, selective signaling, etc. Advise the EOF Director of these problems.
- Decide which ENFs will be FAXed only (vs read and FAXed).
- Take notes during the drill/event for topics that should be discussed in the critique. Participate in the critique.
- After the drill/event tell the primary EOAC what role was filled by each communicator and of any comments/questions concerning their action in the drill/event.

Enclosure 4.4
Off-site Agency Communicator Duties

ENF Person:

- Start EOAC computer and log in to electronic ENF.
- Verify that all users can access electronic ENF.
- Synchronize the EOAC computer clock with the TSC time.
- Complete ENF section 1 either electronically or on paper (NOTE: ENF section 1, lines 3 and 4 are entered by the phone person).
- Work with Accident Assessment and Rad Assessment to complete their sections of the ENF.
- Have the lead EOAC and the EOF Director review the ENF when it is ready.
- Ensure SR/0/B/2000/003 (Activation of the Emergency Operations Facility), Enclosure 4.9 (EOF Off-Site Agency Communicator Checklist) is completed.
- Collect and turn in all appropriate documentation to Emergency Planning at the end of the drill/event.
- Use ENF software to FAX ENF to JIC.
- Ensure all ENF software users are working on the current ENF message.

Phone Person

- Get current authentication code word list.
- Call the TSC to advise them of the start of communications checks.
- Perform communications checks with all participating off-site agencies.
- Call all participating off-site agencies to begin process of communicating each ENF.
- Have this communication authenticated by one of the off-site agencies.
- Complete ENF section 1, lines 3 and 4, and then print the ENF.
- Communicate ENF contents to off-site agencies (by FAX and/or voice).
- Verify that all off-site agencies received each ENF (and get name of individual recipient).
- Handle all questions from the off-site agencies.
- Sign off completed task of procedure.

Floater

- Assist and provide brief relief to Phone, Lead and ENF persons as needed.
- Copy and distribute each ENF promptly.
- Use FAX machine to transmit ENFs.
- Get EOF Director to sign the hard copy of each ENF that the EOF prepared using the electronic ENF.
- Update the EOF Director's Area and the EOAC status boards with the next message due number and time each time an ENF is completed. (This applies to all ENFs regardless of site or origination - Control Room, TSC, and EOF).

The first EOACs to arrive at the EOF should promptly perform each of the "Immediate Actions" listed in RP/0/A/5700/015 regardless of which role they expect to perform.

NOTE: If programmed functions fail, go to RP/0/A/5700/014, Tab 1 for manual FAX numbers.

A. TO SEND A FAX TO A SINGLE LOCATION USING ONE-TOUCH DIALING

1. Insert the document face down into the FAX.
2. Press the one-touch speed dial key that corresponds to the desired FAX number.

B. TO SEND A FAX TO A SINGLE LOCATION DIALING MANUALLY

1. Insert the document face down into the FAX.
2. Using the keypad, dial the number that you wish to call.
3. Press "Start" button.

C. TO MAKE A COPY OF A DOCUMENT

1. Insert the document face down into the FAX.
2. Press "Start" button.

Enclosure 4.6
EMERGENCY NOTIFICATION

1. [A] THIS IS A DRILL [B] ACTUAL EMERGENCY [ ] INITIAL [ ] FOLLOW-UP MESSAGE NUMBER_____

2. SITE: McGuire Nuclear Site UNIT:_____ REPORTED BY:_____

3: TRANSMITTAL TIME/DATE:_____ (Eastern) ____/____/____ (mm/dd/yy) CONFIRMATION PHONE NUMBER: (704) 382-0724

4. AUTHENTICATION (If Required):_____ (Number) _____ (Codeword)

5. EMERGENCY CLASSIFICATION:
[A] NOTIFICATION OF UNUSUAL EVENT [B] ALERT [C] SITE AREA EMERGENCY [D] GENERAL EMERGENCY

6. [A] Emergency Declaration At: [B] Termination At: TIME/DATE:_____ (Eastern) ____/____/____ (mm/dd/yy) (If B, go to item 16.)

7. EMERGENCY DESCRIPTION/REMARKS: _____

8. PLANT CONDITION [A] IMPROVING [B] STABLE [C] DEGRADING

9. REACTOR STATUS: [A] SHUTDOWN: TIME/DATE:_____ (Eastern) ____/____/____ (mm/dd/yy) [B] _____% POWER

10. EMERGENCY RELEASE(S):
[A] NONE (Go to item 14.) [B] POTENTIAL (Go to item 14.) [C] IS OCCURRING [D] HAS OCCURRED

**11. TYPE OF RELEASE: [ ] ELEVATED [ ] GROUND LEVEL
[A] AIRBORNE: Started:_____ Time(Eastern) ____/____/____ Date Stopped:_____ Time(Eastern) ____/____/____ Date
[B] LIQUID: Started:_____ Time(Eastern) ____/____/____ Date Stopped:_____ Time(Eastern) ____/____/____ Date

**12. RELEASE MAGNITUDE: [ ] CURIES PER SEC. [ ] CURIES NORMAL OPERATING LIMITS: [ ] BELOW [ ] ABOVE
[A] NOBLE GASES _____ [B] IODINES _____
[C] PARTICULATES _____ [D] OTHER _____

**13. ESTIMATE OF PROJECTED OFFSITE DOSE:. [ ] NEW [ ] UNCHANGED PROJECTION TIME:_____ (Eastern)

	TEDE mrem	Thyroid CDE mrem
SITE BOUNDARY	_____	_____
2 MILES	_____	_____
5 MILES	_____	_____
10 MILES	_____	_____

ESTIMATED DURATION:_____ HRS.

**14 METEOROLOGICAL DATA: [A] WIND DIRECTION (from) _____ ° [C] SPEED (MPH) _____
[B] STABILITY CLASS _____ [D] PRECIPITATION (type) _____

15. RECOMMENDED PROTECTIVE ACTIONS
[A] NO RECOMMENDED PROTECTIVE ACTIONS
[B] EVACUATE _____
[C] SHELTER IN-PLACE _____
[D] OTHER _____

16. APPROVED BY:_____ (Name) EOF Director (Title) TIME/DATE:_____ (Eastern) ____/____/____ (mm/dd/yy)

* If items 8 - 14 have not changed, only items 1 - 7 and 15 - 16 are required to be completed.
** Information may not be available on Initial Notifications.

GOVERNMENT AGENCIES NOTIFIED

Record the name, date, time and agencies notified:

1. (name)

(date) (time) NC State (agency)
EOC Sel. Sig. 314
EOC Bell Line (919) 733-394

2. (name)

(date) (time) Mecklenburg County (agency)
WP Sel. Sig. 116
WP Bell line 943-6200

3. (name)

(date) (time) Gaston County (agency)
WP Sel. Sig. 112
WP Bell Line (704) 866-3300

4. (name)

(date) (time) Lincoln County (agency)
WP Sel. Sig. 113
WP Bell line (704) 735-8202

5. (name)

(date) (time) Iredell County (agency)
WP Sel. Sig. 114
WP Bell line (704) 878-303

6. (name)

(date) (time) Catawba County (agency)
WP Sel. Sig. 118
WP Bell line (828) 464-3112

7. (name)

(date) (time) Cabarrus County (agency)
WP Sel. Sig. 119
WP Bell line (704) 788-3108

(R06-97)

Duke Power Company
PROCEDURE PROCESS RECORD

(1) ID No. RP/0/A/5700/015
Revision No. 008

PREPARATION

(2) Station **McGuire Nuclear Station**

(3) Procedure Title Notifications to the State and Counties from the Emergency Operations Facility

(4) Prepared By _____ Date 7/20/99

(5) Requires 10CFR50.59 evaluation?

- [x] Yes (New procedure or revision with major changes)
- [ ] No (Revision with minor changes)
- [ ] No (To incorporate previously approved changes)

(6) Reviewed By Alan F. Beaver (QR) Date 9/29/99

Cross-Disciplinary Review By _____ (QR) NA ACB Date 9/29/99

Reactivity Mgmt. Review By _____ (QR) NA ACB Date 9/29/99

(7) Additional Reviews

Reviewed By _____ Date 9/30/99

Reviewed By _____ Date _____

(8) Temporary Approval *(if necessary)*

By _____ (SRO/QR) Date _____

By _____ (QR) Date _____

(9) Approved By _____ Date 1/24/2000

PERFORMANCE (Compare with Control Copy every 14 calendar days while work is being performed.)

(10) Compared with Control Copy _____ Date _____

Compared with Control Copy _____ Date _____

Compared with Control Copy _____ Date _____

(11) Date(s) Performed _____

Work Order Number (WO#) _____

COMPLETION

(12) Procedure Completion Verification

- [ ] Yes [ ] N/A Check lists and/or blanks initialed, signed, dated or filled in NA, as appropriate?
- [ ] Yes [ ] N/A Listed enclosures attached?
- [ ] Yes [ ] N/A Data sheets attached, completed, dated and signed?
- [ ] Yes [ ] N/A Charts, graphs, etc. attached, dated, identified, and marked?
- [ ] Yes [ ] N/A Procedure requirements met?

Verified By _____ Date _____

(13) Procedure Completion Approved _____ Date _____

(14) Remarks *(attach additional pages, if necessary)*

Duke Power Company McGuire Nuclear Station **Notifications to the State and Counties from the Emergency Operations Facility** **Multiple Use**	Procedure No. RP/**0**/A/5700/015 Revision No. 008 Electronic Reference No. MC0048MI

Notifications to the State and Counties from the Emergency Operations Facility

1. Symptoms

An emergency has been declared and an Off-site Agency notification is required.

2. Immediate Actions

_____ 2.1 Contact the TSC Off-site Agency Communicators (via Selective Signaling if not in use) to inform them that you will be checking communications with the Off-site Agencies.

NOTE: Go to RP/0/A/5700/014, Tab 1 for Emergency Response Numbers.

2.1.1 Verify communications with off-site agencies.

2.1.2 Determine when the next notification is due: _____ (Time). Next message number: _____.

2.1.3 Update "Next Message Due" on the following "White Boards":

- EOF Director's Area
- Offsite Agency Communicator Area.

2.1.4 Power up/check printers, fax machines, copiers, etc.

2.1.5 Obtain a copy of the Authentication code word list from the McGuire procedure cabinet in the EOF Director's area.

_____ 2.2 Provide copies of previously transmitted message forms to:

- EOF Director
- Emergency Planner
- Accident Assessment Manager
- Radiological Assessment Manager
- News Group
- NC State Liaison
- Off-site Agency Communicator (lead)
- Off-site Agency Communicator (ENF writer)
- Log Recorder
- Staff Support (Status Board Personnel)
- Accident Assessment Group
- Dose Assessment Group
- Wall Folder (2 copies)
- Field Monitoring Coordinator {PIP-0-M-99-5381}.

_____ 2.3 Have one of the EOAC's arrange for 24 hour EOAC coverage.

_____ 2.4 Power up and log on to the Off-site Communicator computer by using the following:

- Log on ID - EOFWS
- Password - Depress Enter.

_____ 2.5 **WHEN** logged on the computer, **THEN** open new ENF form per Enclosure 4.1, Step 1. {PIP-0-M-99-2301}

_____ 2.6 Verify that the electronic ENF can also be accessed by:

_____ Off-site Agency Communicator _____ Accident Assessment

_____ Radiological Assessment _____ EOF Director.

NOTE: Certain events could occur at the plant site such that both units are affected. These may include: #4.1.1 - High Radiation / Radiological Effluents, #4.1.7 - Fires and Security Actions, #4.1.9 - Natural Disasters and Other Hazards, and #4.1.10 - Other Abnormal Plant Conditions from RP/0/A/5700/000, (Classification of Emergency). Consider this when completing the "unit designation" on line 2 of the Emergency Notification Form. {PIP 0-M97-4638}

_____ 2.7 **IF** the Electronic ENF program is **NOT** operational, **THEN** go to Enclosure 4.2 for manual completion and Enclosure 4.5 for standard transmission of the ENF.

_____ 2.8 Inform the EOF Director, Accident Assessment Manager and Radiological Assessment Manager when next notification is due.

_____ 2.9 Notify the EOF Director as soon as EOF Communicators are ready to take over communications to the Off-site Agencies.

2.10 After the EOF Director declares the EOF activated, contact the TSC to:

_____ 2.10.1 Verify EOF has responsibility for communication and will transmit next message.

_____ 2.10.2 Verify which agencies are participating.

_____ 2.10.3 Synchronize Off-site Agency Communicator computer clock with TSC.

_____ 2.11 Go to Enclosure 4.4 for suggested individual communicator duties.

3. Subsequent Actions

NOTE: Follow-up messages of a lesser classification should never be approved after an upgrade to a new classification is declared. Emphasis should be placed on providing current information and **not** on providing a follow-up just to meet follow-up deadline. **IF** a follow up is due and an upgrade in classification is declared, **THEN** the Off -Site Agency Communicators should contact the agencies that the pending follow-up is being superseded by an upgrade in classification and information will be provided within 15 minutes.

——— 3.1 Immediately following EOF activation, go to Enclosure 4.1 to prepare for next ENF transmission.

——— 3.2 **IF** notified by any agency EOC that they are now active, and in charge, **THEN** contact the agency Warning Point (WP), **AND** determine if they desire to be maintained in the communication loop.

4. Enclosures

4.1 Electronic Emergency Notification Form (ENF) Logon/Completion/Transmission.

4.2 Emergency Notification Form (ENF) Manual Completion.

4.3 Communications Systems.

4.4 Off-site Agency Communicator Duties

4.5 Fax Operations (Manual).

4.6 Emergency Notification Form.

Enclosure 4.1

Electronic Emergency Notification Form (ENF) Logon/Completion/Transmission

1. Electronic Emergency Notification Form Logon

1.1 Log on to the Electronic Notification Form by performing the following:

_____ 1.1.1 Double click the Notification Form Icon found under the Notification Form Program Group.

_____ 1.1.2 Enter user ID (LAN ID) and password ("PASSWORD").

2. Electronic Emergency Notification Form Completion

_____ 2.1 Initiate a new Notification Form by choosing the "**New Emergency Notification**" button and then press **ENTER**. If one has already been initiated by one of the other editing groups, choose the "**Edit the current Emergency Notification**" and then press **ENTER**. In this case, confirm who initiated and verify it is a valid form.

_____ 2.2 When the Emergency Notification Form is displayed, reduce the page screen size by selecting "**View**" and then "**75%**".

NOTE: The green triangle on the section numbers indicate the section has not been completed. When the section is complete, the triangle will turn red.

_____ 2.3 Click on Section 1.

_____ 2.4 Complete the applicable portion (Lines 1 and 2) of the Off-site Communicator section (Section 1). Lines 3 and 4 will be completed during Notification Form transmission. This data can be edited later if necessary.

2.5 Inform the following EOF staff of the next message due time:

_____ Accident Assessment _____ Rad Assessment _____ EOF Director.

_____ 2.6 Monitor completion of the other sections to ensure Notification Form is being completed. Refer to Enclosure 4.2 (Emergency Notification Form Completion) if needed.

_____ 2.7 When all appropriate sections have been completed, prompt the EOF Director to review entire Notification Form and complete Line 16.

3. Electronic Emergency Notification Form Transmission

_____ 3.1 Once the EOF Director has approved the ENF, re-access the Off-site Communicator section (Section 1). Proceed through the Section to the Transmittal Time window.

NOTE: Refer to Enclosure 4.3 for Selective Signaling Alternate Communications instructions.

_____ 3.2 **IF** initial notification, **THEN** establish communications with Off-site Agencies via the Selective Signaling phone.

_____ 3.3 **IF** follow-up notification, **THEN** enter current date and time on line 3 (transmitted time) and go to step 3.8.

NOTE: All initial notifications are verbal. Avoid using abbreviations or jargon likely to be unfamiliar to the state and counties. If any information is not available or not applicable, write out "Not Available" or "No Applicable" in margin or other space as appropriate. Do not abbreviate "N.A.".

_____ 3.4 As the State and Counties answer check them off on the back of notification form. At least one attempt using the individual selective signaling code must be made for missing agencies. **Proceed with the notification promptly following an attempt to get missing agencies on the line.**

NOTE: If you click the exclamation mark button to the right, the current time and date will be entered.

_____ 3.5 Enter the Transmittal date and time. Click "NEXT" to continue to the next window of this section.

_____ 3.6 Ask one of the agencies to authenticate the call. Have the agency provide a number from the Authentication Code Word List and then provide the corresponding word.

_____ 3.7 Enter the Authentication number and code word and then click the Finish button or press Enter.

_____ 3.8 Immediately print out a copy by clicking the print button at the top of the page.

3.9 FAX the Electronic Notification Form to the off-site agencies as follows:

_____ 3.9.1 Click on the FAX button.

3.9.2 When the LanFax Phone Book comes up:

_____ A. Click on TO.

_____ B. FOR DRILLS, click on McGuire Drill.

_____ C. For ACTUAL EMERGENCY, click on McGuire Emergency.

_____ D. Click on Add.

_____ E. Click on OK.

_____ 3.9.3 Click on Send Button .

_____ 3.10 Read the message beginning with item #1 allowing time to copy.

_____ 3.11 Call the off-site agencies to verify they received the fax.

_____ 3.12 As the State and Counties answer check them off on the back of notification form. At least one attempt using the individual selective signaling code must be made for missing agencies. **Proceed with the notification promptly following an attempt to get missing agencies on the line.**

_____ 3.13 Upon completion of initial notification of the message transmission, obtain the names of the Off-site Agency representatives. Record the names on the back of the hard copy of the electronic ENF **OR** on Enclosure 4.6, page 2 of 2. (Additional copies of Enclosure 4.6, page 2 of 2 are located in the Off-site Agency Communicator's Notebook.).

_____ 3.14 Upon completion of follow-up notification, call the off-site agencies and record the names on the back of the hard copy of the ENF **OR** on Enclosure 4.6, page 2 of 2. (Additional copies of Enclosure 4.6, page 2 of 2 are located in the Off-site Agency Communicator's Notebook.).

NOTE: If a question is outside of ENF information, do not answer the question.

_____ 3.15 Inform the agencies that "This concludes message #_____. Are there any questions?"

- Authenticate the request (if question is a return call)
- Have the request evaluated by the EOF Director
- Document the question and answer, and the time the answer was transmitted on the log sheet in the Off-site Agency Communicator's Notebook.

_____ 3.16 Continuous attempts to contact missing agencies must be made if unable to complete the notification per step 3.1.2. Document the time these agencies were contacted on the back of the notification form.

_____ 3.17 Repeat the above steps beginning with step 2.1 as necessary to communicate other initial and follow-up messages.

——— 3.18 Direct the EOF Director to sign the hard copy for documentation purposes. Retain this hard copy to include names of the agency representatives when message transmission is complete.

——— 3.19 Provide hard copies of the Emergency Notification Form to the groups listed in step 2.2, page 2 of 4, in body of this procedure.

——— 3.20 Update next message due on the following white boards:

- Offsite Agency Communicators Area
- EOF Director's Area.

4. Termination Message

NOTE: 1. When terminating from a General Emergency, "No Recommended Protective Action" HAS to be selected in the Electronic Notification Form program.

2. Termination notifications are communicated **verbally**.

3. Termination notification is marked as a Follow-up.

——— 4.1 Click on Section 1 button and complete the first two screens of the Off-Site Communicator section (Lines 1 and 2). (The last two screens [Lines 3 and 4] will be completed during Notification Form transmission). Data can be edited later if necessary.

4.2 Click on Section 2 and enter the appropriate information.

_____ 4.2.1 Classification being terminated.

_____ 4.2.2 Time and date of termination.

_____ 4.2.3 Enter that "The event (or Drill) has been terminated.

_____ 4.2.4 Mark 'Improving" for Plant Condition.

_____ 4.2.5 Enter the Reactor Status.

_____ 4.2.6 Mark "No Recommended Protective Actions".

4.3 Click on Section 3 and enter the appropriate information.

_____ 4.3.1 Mark "None" for Emergency Releases.

_____ 4.3.2 Enter Meteorological information.

_____ 4.4 After Sections 2 and 3 are complete, have the EOF Director review the form and complete Section 4.

_____ 4.5 As the State and Counties answer check them off on the back of the notification form. At least one attempt using the individual selective signaling code must be made for the missing agencies. **Proceed with the notification promptly following and attempt to get missing agencies on the line.**

_____ 4.6 When all available parties are verified on the line, read the following statement: "This is McGuire Nuclear Site EOF, this is a drill or actual emergency" (whichever applies).{PIP-0M-99- 0911}

_____ 4.7 Enter the Transmittal date and time. Click "NEXT" to continue to the next window of this section. {PIP-0M-99-0911}

_____ 4.8 Ask one of the agencies to authenticate the call. Have the agency provide a number from the Authentication Code Work List and then provide the corresponding word. {PIP 0-M98-3946}

_____ 4.9 Enter the Authentication number and code word and then click the Finish button or press Enter. {PIP 0-M98-3946}

_____ 4.10 Immediately print out a copy by clicking the print button at the top of the page. {PIP 0-M98-3946}

_____ 4.11 Read the termination message to the Off-site Agencies, **THEN** record the individuals' names and time on the back of the ENF **OR** on Enclosure 4.6, page 2 of 2.

4.12 FAX the Electronic Notification Form to the off-site agencies as follows:

_____ 4.12.1 Click on FAX button.

4.12.2 When the LanFax Phone Book comes up:

_____ 4.12.2.1 Click on TO.

_____ 4.12.2.2 FOR DRILLS, click on McGuire Drill.

_____ 4.12.2.3 For ACTUAL EMERGENCY, click on McGuire Emergency.

_____ 4.12.2.4 Click on Add.

_____ 4.12.2.5 Click on OK.

_____ 4.12.3 Click on Send Button .

_____ 4.13 Call the off-site agencies to verify they received the fax.

_____ 4.14 Continuous attempts to contact missing agencies must be made if unable to complete the notification per step 3.12. Document the time there agencies were contacted on the back of the notification form.

4.15 Immediately perform the following: {PIP-0-M-99-2301}

_____ 4.15.1 Initiate a new ENF Form.

_____ 4.15.2 Notify the following a new form is available:

- Dose Assessors
- EOF Director
- Accident Assessment Manager.

Emergency Notification Form (ENF)
Manual Completion

1. Initial and Follow-up Completion

NOTE: For Initial Notification, only items 1-10, 15 and 16 are required. Items 11-14 may be skipped.

ENF Item #	Communicator Action	Info Source/EOF
1.	Check the appropriate blocks. Message #'s are sequentially numbered throughout the drill/emergency starting with the Control Room.	
2.	Write in the unit or units affected and the phone communicator's name (Reported By).	
3.	Write in the transmittal time, date, confirmation phone number. For Initial: when all agencies are on line. For Follow-up: when ENF is faxed.	
4.	Document Authentication while transmitting notification.	
5.	Check appropriate classification.	Accident Assess. Mgr.
6.	Mark appropriate box and write time and date current classification was declared.	Accident Assess. Mgr.

7.	**FOR INITIAL AND FOLLOW-UP NOTIFICATIONS:** Enter a brief description of the reason for declaring the emergency classification (in layman's terms, if possible). **DO NOT** use system abbreviations, acronyms or jargon which may cause confusion. Instead, write out the description in long hand. Be sensitive to the fact that certain descriptive technical terms may elicit unanticipated reactions from others. {PIP 0-M98-2065} **AND** **FOR FOLLOW-UP NOTIFICATIONS:** In addition, provide a description of changes in plant conditions since the last notification. Items to be considered for inclusion are as follows: {PIP 0-M98-2065} • Other unrelated classifiable events (for example, during an Alert, an event which, by itself would meet the conditions for an Unusual Event) • Major/Key Equipment Out of Service • Emergency response actions underway • Fire(s) onsite • Flooding related to the emergency • Explosions • Loss of Offsite Power • Core Uncovery • Core Damage • Medical Emergency Response Team activation related to the emergency • Personnel injury related to the emergency or death • Transport of injured individuals offsite - specify whether contaminated or not • Site Evacuation/relocation of site personnel • Saboteurs/Intruders/Suspicious devices/Threats • Chemical or Hazardous Material Spills or Releases • Extraordinary noises audible offsite • Any event causing/requiring offsite agency response • Any event causing increased media attention • Remember to "close the loop" on items from previous notifications.	Accident Assess. Mgr.

8.	Mark appropriate plant condition. {PIP 0-M97-4210 NRC-1} • **Improving**: Emergency conditions are improving in the direction of a lower classification or termination of the event. • **Stable:** The emergency situation is under control. Emergency core cooling systems, equipment, plans, etc., are operating as designed. • **Degrading**: Given current and projected plant conditions / equipment status, recovery efforts are not expected to prevent entry into a higher emergency classification or the need to upgrade offsite Protective Action Recommendations.	
9.	Write time and date of Reactor Shutdown or Reactor Power level as applicable.	Accident Assess. Mgr.

10.	**NOTE:** **An emergency release is any unplanned, quantifiable discharge to the environment associated with a declared emergency event.** (This definition is based on an NRC commitment made on 11/30/90 following McGuire's Steam Generator Tube Rupture.) PIP 0-M97-4256} Check the appropriate box for emergency release. • **A** **NONE:** clearly no emergency release is occurring or has occurred. • **B** **POTENTIAL:** discretionary option for the EC or EOFD. • **C** **IS OCCURRING:** meets the specified conditions. • **D** **HAS OCCURRED:** previously met the specified conditions. Base the determination of emergency release on: • EMF readings, • Containment pressure and other indications, • Field monitoring results, • Knowledge of the event and its impact on systems operation and resultant release paths. **An emergency release is occurring if any one or more of the following bulleted conditions are met associated with a declared emergency:** • Either containment particulate, gaseous, iodine monitor (EMFs 38, 39 and/or 40) readings indicate an increase in activity, **OR** Containment monitor (EMFs 51A and/or 51B) readings indicate greater than 1.5R/hr, **AND** Either containment pressure is greater than 0.3 psig, **OR** An actual containment breach is known to exist. • Unit vent particulate, gaseous, iodine monitor (EMFs 35, 36, and/or 37) readings indicate an increase in activity. • Condenser air ejector exhaust monitor (EMF 33) or other alternate means indicate Steam Generator tube leakage. • Confirmed activity in the environment reported by Field Monitoring Team(s). • Knowledge of the event and its impact on systems operation and resultant release paths.	Rad. Assess. Mgr.

11.	Indicate type of release and time/date. Mark Ground Level for any airborne releases.	Rad. Assess. Mgr.
12.	Indicate release magnitude and whether release is above or below normal operating limits.	Rad. Assess. Mgr.
13.	Write estimate of projected off-site dose and estimated duration. Check new or unchanged. If unchanged from a previous notification, the information does not have to be repeated.	Rad. Assess. Mgr.
14.	Provide meteorological data.	Rad. Assess. Mgr.
15.	Indicate appropriate recommended protective actions as recommended by Duke Power and EOF Director.	Rad. Assess. Mgr.
16.	Have EOF Director approve message.	EOF Director

2. Termination Notification Completion

2.1. When the emergency/drill has been terminated, complete the ENF as described below.

NOTE: Termination Notifications are to be indicated as a follow-up message.

Line Item #	Action	Source of Information EOF
1.	Check appropriate block. Message #s are sequentially numbered throughout the drill/emergency starting with the Control Room.	
2.	Write in unit or units affected and the communicator's name (Reported By).	
3.	Write in the transmittal time. This is the time you verify all agencies are on the line. Write in the date.	
4.	Authentication will be completed while transmitting the notification to Off-site Agencies.	
5.	Check appropriate classification that is being terminated.	Acc. Assess. Mgr.
6.	Mark box "B" and write time and date of termination.	Acc. Assess. Mgr.
16.	Have EOF Director approve message.	EOF Director

The following is the suggested priority for the communications systems used to notify the Off-site Agencies.

NOTE: For 1-5, go to RP/A/5700/014, Tab 1 for emergency response numbers.

1. Selective Signaling System.
2. Commercial Telephone .
3. Programmable Conference telephones (for operating instructions, page 1 of 4).
4. County Emergency Response Radio (for operating instructions, page 2 of 4).
5. North Carolina Emergency Management Radio (for operating instructions, page 3 of 4).
6. Cellular Telephones (for operating instructions, page 4 of 4).

Programmable Conference Telephones

NOTE: These phones are located on the table with the Off-site Agency Communicator's computer.

The programmed conference telephone numbers are: 382-0723

382-0724

How to Program the Conference Telephone

1. Pick up the receiver, **PRESS** ABRV DIAL *, **PRESS** the storage number (Dial any digit 0-9), the ABREV. DIAL LAMP will light up and you will here a confirmation tone.
2. **DIAL** (the telephone number you want to store).
   Example: NC EOF 1-919-733-3943.
3. **HANG UP** (This stores the number).

How to Conference

NOTE: Go to RP/0/A/5700/014, Tab 1 for Emergency Response Numbers.

1. Pick up the receiver **PRESS** ABRV DIAL, **PRESS** the button (Agency), when they pick up tell them to hold, **PRESS** CONF.
2. Repeat step 1 until you have conferenced all of the appropriate agencies.

County Emergency Response Radio

NOTES: 1. This radio will only contact the county warning points. Contact the state on the North Carolina Emergency Management Radio.

2. Go to RP/0/A/5700/014, Tab 1 for Emergency Response Numbers.

Group Call

1. Turn the Power Switch "**ON**".
2. Turn the selector switch on the "Black Box" to - Position "A" McGuire.
3. Push **CLEAR** on the encoder.
4. Press **20** (Group Call). The encoder should automatically begin transmitting the tones on the radio as evidenced by the "PAGE" light. If it does not do this automatically, press the PAGE button. {PIP-0-M-99-2593}
5. When the talk light comes on, press the **bar** on the transmitter microphone and say

   "This is McGuire EOF to all counties, do you copy?"

   Once all available counties respond, begin transmitting the message.

   At least one attempt using the individual radio code must be made for the missing agencies.

   Proceed with the notification promptly following an attempt to get missing agencies on the air.
6. If a county fails to respond on the group call, press their individual code on the encoder and say

   'This is McGuire EOF to (Agency you are calling), do you copy?"

   Once the county responds, begin transmitting the message.
7. After you have finished transmitting the message, conclude the message by saying

   "This is WQC700 base clear."
8. Continuous attempts to contact missing agencies must be made if unable to complete the notification per step 5. Document the time these agencies were contacted on the back of the notification form.

NORTH CAROLINA EMERGENCY MANAGEMENT RADIO

NOTE: This radio will only contact the state.

To operate the radio:

1. Turn the Power Switch to "**ON**".
2. Select the appropriate frequency:
   a. Frequency 1 is the Emergency Management Frequency.
   b. Frequency 2 is the State Radiation Protection Frequency.
3. Turn the Frequency Switch to Frequency **1**.
4. Depress the bar labeled "**TRANSMIT**" on the microphone and say "WPDW704, this is WNLK241 Duke Power Emergency Operations Facility, Over" to initiate a call. Release the bar.
5. The state should respond "WNLK241, this is WPDW704, Over".
6. Once contact has been made with the state, depress the "**TRANSMIT**" bar again and send the message.
7. When the conversation is complete, conclude the call by saying 'WNLK241 Out" and release the bar.

CELLULAR TELEPHONES

Cellular Telephones are located in the chargers located on the table in the Communicator's Area.

Cellular Phone Numbers

(704) 572-3259

(704) 572-3261

A. To Place Calls

1. Press the **PWR** button.
2. Enter the telephone number, press **SND**.
3. To terminate the call, press and hold **END**.

B. Three Party Conference

1. Place the first call as in Step A.
2. Dial the second number and press **SND**.
3. If there is no answer or the number is busy, press **SND**.
4. To terminate the call, press **END**.

Enclosure 4.4

Off-site Agency Communicator Duties

Lead Person:

- Sign in on the white board in the EOF Director's area as the "Off-site Agency Communicator". Also sign in and ensure that the other EOF off-site agency communicators have signed in on the white board in the off-site agency communicator's area.
- Ensure adequate staffing of Emergency Off-site Agency Communicators (EOACs).
- Ensure all the EOACs have a copy of and understand the correct procedure and that they know their duties.
- Ensure that the EOACs are fit for duty prior to taking turnover from the site.
- Keep the EOF Director informed of progress in preparing to take turnover from the site. Ensure that the EOF promptly get copies of each site-issued Emergency Notification Form.
- Be the chief interface with the EOF Director.
- Have one of the EOACs arrange for 24 hour EOAC coverage.
- Check with dose assessment early and often to ensure that they don't delay an ENF. (It can take them 10 minutes to calculate doses so be sure that they have a 15 minute warning before we need their data. If they aren't comfortable with their data or if they run low on time, get the Radiological Assessment Manager involved at once -- **do not delay!**)
- Check with the News Group to coordinate ENF transmittals with their press conference schedule. Information should always be issued on an ENF before the News Group releases it. If requested, review and approve (signature required) news releases.
- Resolve any questions concerning procedure or actions (the Emergency Planner can help).
- Ensure that all messages (ENFs) are accurate, complete, and issued on time.
- Decide when to omit dose data on the ENF (in the interest of timeliness).
- Keep up with events as they unfold for potential inclusion on the ENF. Ensure that events (e.g. injuries, fires, intruders, etc.) are reported and that later ENF's follow-up on those events and report their resolution ("close the loop").
- Proofread the ENF prior to giving it to the EOF Director for approval. Give the EOF Director sufficient time to review/change the ENF.
- Work with the Commodities and Facilities group to fix any problems with the FAX machines, selective signaling, etc. Advise the EOF Director of these problems.
- Decide which ENFs will be FAXed only (vs read and FAXed).
- Take notes during the drill/event for topics that should be discussed in the critique. Participate in the critique.
- After the drill/event tell the primary EOAC what role was filled by each communicator and of any comments/questions concerning their action in the drill/event.

Enclosure 4.4
Off-site Agency Communicator Duties

ENF Person:

- Start EOAC computer and log in to electronic ENF.
- Verify that all users can access electronic ENF.
- Synchronize the EOAC computer clock with the TSC time.
- Complete ENF section 1 either electronically or on paper (NOTE: ENF section 1, lines 3 and 4 are entered by the phone person).
- Work with Accident Assessment and Rad Assessment to complete their sections of the ENF.
- Have the lead EOAC and the EOF Director review the ENF when it is ready.
- Ensure SR/0/B/2000/003 (Activation of the Emergency Operations Facility), Enclosure 4.9 (EOF Off-Site Agency Communicator Checklist) is completed.
- Collect and turn in all appropriate documentation to Emergency Planning at the end of the drill/event.
- Use ENF software to FAX ENF to JIC.
- Ensure all ENF software users are working on the current ENF message.

Phone Person

- Get current authentication code word list.
- Call the TSC to advise them of the start of communications checks.
- Perform communications checks with all participating off-site agencies.
- Call all participating off-site agencies to begin process of communicating each ENF.
- Have this communication authenticated by one of the off-site agencies.
- Complete ENF section 1, lines 3 and 4, and then print the ENF.
- Communicate ENF contents to off-site agencies (by FAX and/or voice).
- Verify that all off-site agencies received each ENF (and get name of individual recipient).
- Handle all questions from the off-site agencies.
- Sign off completed task of procedure.

Floater

- Assist and provide brief relief to Phone, Lead and ENF persons as needed.
- Copy and distribute each ENF promptly.
- Use FAX machine to transmit ENFs.
- Get EOF Director to sign the hard copy of each ENF that the EOF prepared using the electronic ENF.
- Update the EOF Director's Area and the EOAC status boards with the next message due number and time each time an ENF is completed. (This applies to all ENFs regardless of site or origination - Control Room, TSC, and EOF).

The first EOACs to arrive at the EOF should promptly perform each of the "Immediate Actions" listed in RP/0/A/5700/015 regardless of which role they expect to perform.

NOTE: If programmed functions fail, go to RP/0/A/5700/014, Tab 1 for manual FAX numbers.

A. TO SEND A FAX TO A SINGLE LOCATION USING ONE-TOUCH DIALING

1. Insert the document face down into the FAX.
2. Press the one-touch speed dial key that corresponds to the desired FAX number.

B. TO SEND A FAX TO A SINGLE LOCATION DIALING MANUALLY

1. Insert the document face down into the FAX.
2. Using the keypad, dial the number that you wish to call.
3. Press "Start" button.

C. TO MAKE A COPY OF A DOCUMENT

1. Insert the document face down into the FAX.
2. Press "Start" button.

Enclosure 4.6
EMERGENCY NOTIFICATION

1. [A] THIS IS A DRILL [B] ACTUAL EMERGENCY [ ] INITIAL [ ] FOLLOW-UP MESSAGE NUMBER_____

2. SITE: McGuire Nuclear Site UNIT:_____ REPORTED BY:_____

3: TRANSMITTAL TIME/DATE:_____ (Eastern) ____/____/____ mm dd yy CONFIRMATION PHONE NUMBER: (704) 382-0724

4. AUTHENTICATION (If Required):_____ (Number) _____ (Codeword)

5. EMERGENCY CLASSIFICATION:
[A] NOTIFICATION OF UNUSUAL EVENT [B] ALERT [C] SITE AREA EMERGENCY [D] GENERAL EMERGENCY

6. [A] Emergency Declaration At: [B] Termination At: TIME/DATE:_____ (Eastern) ____/____/____ mm dd yy (If B, go to item 16.)

7. EMERGENCY DESCRIPTION/REMARKS: _____

8. PLANT CONDITION [A] IMPROVING [B] STABLE [C] DEGRADING

9. REACTOR STATUS: [A] SHUTDOWN: TIME/DATE:_____ (Eastern) ____/____/____ [B] _____% POWER

10. EMERGENCY RELEASE(S):
[A] NONE (Go to item 14.) [B] POTENTIAL (Go to item 14.) [C] IS OCCURRING [D] HAS OCCURRED

**11. TYPE OF RELEASE: [ ] ELEVATED [ ] GROUND LEVEL
[A] AIRBORNE: Started:_____ Time(Eastern) ____/____/____ Date Stopped:_____ Time(Eastern) ____/____/____ Date
[B] LIQUID: Started:_____ Time(Eastern) ____/____/____ Date Stopped:_____ Time(Eastern) ____/____/____ Date

**12. RELEASE MAGNITUDE: [ ] CURIES PER SEC. [ ] CURIES NORMAL OPERATING LIMITS: [ ] BELOW [ ] ABOVE
[A] NOBLE GASES _____ [B] IODINES _____
[C] PARTICULATES _____ [D] OTHER _____

**13. ESTIMATE OF PROJECTED OFFSITE DOSE:. [ ] NEW [ ] UNCHANGED PROJECTION TIME:_____ (Eastern)

	TEDE mrem	Thyroid CDE mrem
SITE BOUNDARY	_____	_____
2 MILES	_____	_____
5 MILES	_____	_____
10 MILES	_____	_____

ESTIMATED DURATION:_____ HRS.

**14 METEOROLOGICAL DATA: [A] WIND DIRECTION (from) _____ ° [C] SPEED (MPH) _____
[B] STABILITY CLASS _____ [D] PRECIPITATION (type) _____

15. RECOMMENDED PROTECTIVE ACTIONS
[A] NO RECOMMENDED PROTECTIVE ACTIONS
[B] EVACUATE _____
[C] SHELTER IN-PLACE _____
[D] OTHER _____

16. APPROVED BY:_____ (Name) EOF Director (Title) TIME/DATE:_____ (Eastern) ____/____/____ mm dd yy

* If items 8 - 14 have not changed, only items 1 - 7 and 15 - 16 are required to be completed.
** Information may not be available on Initial Notifications.

GOVERNMENT AGENCIES NOTIFIED

Record the name, date, time and agencies notified:

1. (name)

(date) (time)

NC State (agency)
EOC Sel. Sig. 314
EOC Bell Line (919) 733-394

2. (name)

(date) (time)

Mecklenburg County (agency)
WP Sel. Sig. 116
WP Bell line 943-6200

3. (name)

(date) (time)

Gaston County (agency)
WP Sel. Sig. 112
WP Bell Line (704) 866-3300

4. (name)

(date) (time)

Lincoln County (agency)
WP Sel. Sig. 113
WP Bell line (704) 735-8202

5. (name)

(date) (time)

Iredell County (agency)
WP Sel. Sig. 114
WP Bell line (704) 878-303

6. (name)

(date) (time)

Catawba County (agency)
WP Sel. Sig. 118
WP Bell line (828) 464-3112

7. (name)

(date) (time)

Cabarrus County (agency)
WP Sel. Sig. 119
WP Bell line (704) 788-3108

(R06-97)

Duke Power Company
PROCEDURE PROCESS RECORD
FOR STANDARD PROCEDURES

(1) ID No. SR/0/B/2000/002
Revision No. 001

PREPARATION ☒

(2) Procedure Title: Standard Procedure for EOF Commodities and Facilities

(3) Prepared By B. R. Lutz Date 12/29/99

(4)	Applicable To:	☐ ONS	☒ MNS	☒ CNS
(5)	Technical Advisor		[signature]	B.R. Lutz
(6)	Requires 10CFR50.59 Evaluation?	☐ Yes ☐ No YES = New procedure or revision with major changes at applicable site	☑ Yes ☐ No NO = Revision with minor changes NO = To incorporate previously approved changes	☒ Yes ☐ No
(7)	Review (QR)	By _____ Date _____	By Alan L. Beaver Date 1/19/2000	By Gary L Mitchell Date 12/29/99.
	Cross-Disciplinary Review (QR)	By _____ NA ____ Date _____	By _____ NA AHB Date 1/19/2000	By _____ NA GLM Date 12/29/99
	Reactivity Mgmt. Review (QR)	By _____ NA ____ Date _____	By _____ NA AHB Date 1/19/2000	By _____ NA GLM Date 12/29/99.
(8)	Additional Reviews	By _____ Date _____ By _____ Date _____	By Libby Applegate Date 12-30-99 By _____ Date _____	By _____ Date _____ By _____ Date _____
(9)	Approved	By _____ Date _____	By [signature] Date 1/24/2000	By Richard L Swingart Date 12/29/99
(10)	Use Level	**Multiple Use**		

PERFORMANCE (Compare with Control Copy every 14 calendar days while work is being performed.)

(11) Compared with Control Copy _____ Date _____
Compared with Control Copy _____ Date _____
Compared with Control Copy _____ Date _____

(12) Date(s) Performed _____
Work Order Number (WO#) _____

COMPLETION

(13) Procedure Completion Verification

☐ Yes ☐ NA Check lists and/or blanks initialed, signed, dated, or filled in NA, as appropriate?
☐ Yes ☐ NA Listed enclosures attached?
☐ Yes ☐ NA Data sheets attached, completed, dated, and signed?
☐ Yes ☐ NA Charts, graphs, etc. attached, dated, identified, and marked?
☐ Yes ☐ NA Procedure requirements met?

Verified By _____ Date _____

(14) Procedure Completion Approved _____ Date _____

(15) Remarks (*Attach additional pages, if necessary.*)

Duke Power Company McGuire/Catawba Nuclear Station **Standard Procedure for EOF Commodities and Facilities** **Multiple Use**	Procedure No. **SR/0/B/2000/002** Revision No. 001 Electronic Reference No. CP0094AZ

Standard Procedure for EOF Commodities and Facilities

1. Symptoms

An emergency condition exists requiring EOF activation.

2. Immediate Actions

Activate the EOF C&F Telephone Call-up list utilizing the EOF Commodities and Facilities Reference Guide. (Section 4.1)

The following commodities and facilities functions are established or made available:

- Communication Systems (Enclosure 4.1)
- Fleet Services (Enclosure 4.2)
- Administration (Enclosure 4.3)
- Commissary (Enclosure 4.4)
- Risk Management (Enclosure 4.5)
- Purchasing (Enclosure 4.6)

3. Subsequent Actions

Shutdown EOF per Enclosure 4.7.

4. Enclosures

4.1 Communications

4.2 Fleet Services

4.3 Administration

4.4 Commissary

4.5 Risk Management

4.6 Purchasing

4.7 EOF Shutdown Checklist

NOTE:	**Refer to the EOF Commodities and Facilities Reference Guide for specific information regarding contacts, phone numbers, and available equipment/services.**

1. Purpose

Provides the telephone and radio requirements of the overall recovery organization as well as electrical needs.

2. Major Functions

2.1 Install and maintain telephone system.

2.2 Supply mobile radios and radio pagers.

2.3 Install additional electrical hookups as needed.

NOTE:	Telecommunications Operations Center is staffed 7 days a week, 24 hours a day.

2.4 Notify Telecommunications Operations Center should any additional problem solving be necessary and/or additional personnel be required.

3. Communications Systems

Telephone System

The system consists of independent lines for use by Emergency Response personnel and provisions are made for phones for NRC use and special off-site agency coordination use.

Radio Systems

These systems consist of 3 independent systems for use by the Offsite Communicators, NC, and SC (State Radios and Low Band system), and Duke Dose Assessment (800 Mhz system).

4. Equipment

Communications: All communication equipment for the MNS/CNS EOF is in each individual room and location.

NOTE:	**Refer to the EOF Commodities and Facilities Reference Guide for specific information regarding contacts, phone numbers, and available equipment/services.**

1. Purpose

Provides necessary equipment for movement of material and personnel.

2. Major Functions

2.1 Furnish vehicles and operators for personnel and equipment movement.

2.2 Provide common carrier and specialized carrier service for specific material and personnel needs.

2.3 Coordinate, trace, and expedite material deliveries and shipments in and out of recovery site.

2.4 Provide fuel for on-site recovery vehicles.

2.5 Transport environmental samples for analysis upon request by the Radiological Assessment Group.

3. Additional Personnel Required

Additional personnel may be required to handle functions such as shuttle service, garbage pickup, environmental sample transport. Immediate needs are to be assessed upon arrival at the site.

4. First Call-Out

4.1 On the first call-out, the director or designee will organize and transport the equipment and operating personnel needed initially.

4.2 The first contingency will begin with establishment of base operations. This will include personnel establishment and transport equipment assessment.

4.3 Equipment presently harbored at the General Office, Toddville, McGuire and Catawba sites, depending on the magnitude and need, is available for use at the onset. An assessment of availability will be made on arrival of the first transportation contingency.

4.4 Environmental samples transport requests will be initiated by the Radiological Assessment Group. The time and location of sample pick-up will be determined by the Transportation Director and Field Monitoring Coordinator. Sample destination will be the Applied Science Center (ASC) or unaffected station, as specified by the Radiological Assessment Group.

NOTE:	**Refer to the EOF Commodities and Facilities Reference Guide for specific information regarding contacts, phone numbers, and available equipment/services.**

1. Purpose

To provide general administrative office support and supplies.

2. Major Functions

2.1 Provide office supplies and equipment.

2.2 Provide photography services and cameras.

2.3 Provide secretarial/clerical services.

2.4 Provide telephone call-out list for Commodities & Facilities team.

2.5 Provide copy services.

2.6 Provide air travel, hotel, and car rental arrangements.

2.7 Contact Payroll to get checks for individuals upon request.

2.8 Provide assistance for Petty Cash activities.

2.9 Provide in-house craft resources as requested.

2.10 Verify from the EOF Off-Site Agency Communicators that the EOF clocks have the correct time and have been synchronized.

3. Action List Upon Arrival at EOF

3.1 Upon arrival at EOF, members of the Administration staff will be responsible for the following:

3.1.1 Ensure that Commodities and Facilities area is set up.

3.1.1.1 Supply cabinet unlocked and open.

3.1.1.2 Get pads, pencils, etc., out of cabinet.

NOTE:	The correct time can be obtained from the EOF Off-Site Agency Communicators

3.1.1.3 Verify facility clocks have been synchronized.

3.1.2 Furnish additional personnel if needed.

3.1.3 Copy Center / Fax services.

3.1.4 Main Frame Computers and VMS Servers.

3.1.5 Upon EOF activation, contact the College Street Center to inform them of the need to keep mainframe computers and VMS servers available.

NOTE:	Network Operations is available 7 days a week, 24 hours a day.

3.1.6 Contact the lead operator at Network Operations (College Street).

A. Request they contact Duke Shift Supervisor and VMS Support on call personnel.

B. Advise Network Operations to alert Duke Shift Supervisor and VMS Support of the drill/emergency and the necessity to keep mainframe computer and VMS servers available.

4. Action List for Changing from Emergency to Recovery Mode

4.1 Replenish supplies.

4.2 Determine additional space requirements.

4.3 Prepare weekly work schedules.

4.4 Determine hotel/motel accommodations and travel requirements; contact Corporate Travel Center for securing these requirements.

NOTE:	**Refer to the EOF Commodities and Facilities Reference Guide for specific information regarding contacts, phone numbers, and available equipment/services.**

1. Purpose

Meet basic nutritional and personal needs of the recovery organization.

2. Major Functions

2.1 Furnish food and beverage.

2.2 Provide tables and chairs.

2.3 Provide tents.

2.4 Furnish portable toilets.

2.5 Furnish trash receptacles.

3. Tasks Upon Arrival

3.1 Public Address system switched on. (P.A. amplifier is in Janitor Storage Room).

3.2 Copiers in the Copy Room and Offsite Agency Communications area turned on.

4. Recovery Mode (Perform the following if necessary)

4.1 Notify Food Vendors - Set up shift operations to support recovery efforts for meals and breaks (snacks) with times and locations for serving.

4.2 Notify chairs and table suppliers/vendors for appropriate needs and quantities.

4.3 Notify tent suppliers for appropriate needs and quantities.

4.4 Notify portable toilet suppliers for appropriate needs and quantities.

4.5 Notify trash receptacles suppliers for appropriate needs and quantities.

4.6 Establish shift coverage of commissary personnel to support total recovery efforts.

NOTE:	**Refer to the EOF Commodities and Facilities Reference Guide for specific information regarding contacts, phone numbers, and available equipment/services.**

1. Purpose

1.1 Serve as liaison between Duke and insurance companies.

1.2 Interface with other EOF groups to provide assistance needed by insurance companies.

2. Major Functions

2.1 Provide contact with insurance companies.

2.2 Assist insurance companies in data gathering.

2.3 Assist insurance companies in establishing claims offices to disburse emergency assistance funds to evacuees.

3. Interfacing with Other Groups

3.1 Interface with appropriate technical support groups to obtain the necessary technical information sufficient to satisfy the needs of the insurance companies.

3.2 Work with Administrative Group to provide assistance in securing motel reservations if insurance companies should dispatch an investigative team.

3.3 Claims Office

3.3.1 In the event it becomes necessary to evacuate members of the general public, the insurance company would set up claims offices to disburse emergency assistance funds.

3.3.2 The Risk Management Group would provide as much assistance as possible in expediting the setting up of this claims office.

3.3.3 The Risk Management Group would also communicate with Public Affairs about its location and operation. Claims would be handled by insurance company personnel.

NOTE:	**Refer to the EOF Commodities and Facilities Reference Guide for specific information regarding contacts, phone numbers, and available equipment/services.**

1. Purpose

Coordinate all activities with the Recovery Organization relating to procurement of materials, equipment and services.

NOTE:	The EOF Director and Commodities and Facilities Manager are authorized to approve expenses incurred in the performance of the duties described in this procedure.

2. Major Functions

2.1 Issue requisitions.

2.2 Negotiate contracts.

2.3 Issue purchase orders.

2.4 Expedite hardware and software.

2.5 Coordinate receipt of material.

2.6 Coordinate distribution of material.

3. Additional Personnel Required

3.1 Since most of the purchasing function will be handled in either the General Office or the Site Purchasing Groups, the entire Purchasing Department will be at the Purchasing Director's disposal. The General Office and Site Purchasing Groups will deploy and staff back-up teams per the Purchasing Director's instructions.

3.2 The EOF Purchasing team will utilize the clerical support provided by the Administration Director for necessary support functions in the EOF.

4. Arrival at EOF

4.1 The Purchasing Director will assess the situation and activate the GO Purchasing team, if necessary.

4.2 Immediate work will begin on procurement of equipment, material and services as may be required.

5. Interface with Other Groups

5.1 Work with Transportation Director to ensure expeditious delivery of equipment to the site and with the Administration Director to obtain required funds from petty cash for small purchases.

5.2 Work with Nuclear Generation Department concerning the receipt and distribution of equipment and materials.

6. Crisis Stage to Recovery Stage

NOTE: The following is a checklist of things to do and/or consider when moving from the CRISIS STAGE to the RECOVERY STAGE of an event.

6.1 Activate Purchasing back-up teams.

6.2 Prepare work schedule for Purchasing team.

6.3 Assess need for additional personnel support.

6.4 Assess need to activate Field Commodity contacts.

6.5 Establish expediting level at Level One.

7. Procedures

7.1 Requisitioning Equipment

7.1.1 When it has been determined that material, equipment, or services are needed, Purchasing Coordinators at the EOF will convey that need as rapidly as possible to the Purchasing Department utilizing telephones and/or fax machines.

7.1.2 Requisitions for the recovery effort will be expedited through the Purchasing Department system for immediate order processing.

7.2 Expediting

Expediting Level One or higher will apply to all purchases for the recovery operation unless determined otherwise.

7.3 Receiving

7.3.1 Receipt of material and equipment will be handled by the Nuclear Site Commodities & Facilities Group.

7.3.2 A member of the Emergency Operations Purchasing Team will coordinate with Receiving to assure that the material gets to the appropriate destination at the site.

NOTE:	**Refer to the EOF Commodities and Facilities Reference Guide for specific information regarding contacts, phone numbers, and available equipment/services.**

1. Administration

INITIALS

____ 1.1 Secure Commodities & Facilities area.

____ 1.2 Restock office supplies as necessary.

____ 1.3 Arrange for return of relocated office equipment.

____ 1.4 Notify Hotels/Motels of release of rooms.

____ 1.5 Assist personnel needing airline transportation home.

2. Communications

____ 2.1 Secure radio base stations.

____ 2.2 Contact Computer Support to release computers from emergency status.

____ 2.3 Return portable communications equipment to storage location (if applicable).

3. Purchasing

____ Transfer information on outstanding requisitions to normal Purchasing contacts.

4. Commissary

____ 4.1 Notify vendors to discontinue food service to Emergency Operations Facility.

____ 4.2 Notify vendors to pick up furniture and equipment not required for Recovery.

____ 4.3 Make arrangements for trash removal.

____ 4.4 Copy machines cut off.

____ 4.5 Public address system off.

5. Fleet Services

_____ 5.1 Arrange for transport of relocated equipment to original location, if applicable.

_____ 5.2 Arrange for transportation home for personnel (as needed).

6. Risk Management

_____ Notify insurance companies of change in status.

(R06-97)

Duke Power Company
PROCEDURE PROCESS RECORD FOR STANDARD PROCEDURES

(1) ID No. SR/0/B/2000/002

Revision No. 001

PREPARATION ☒

(2) Procedure Title: **Standard Procedure for EOF Commodities and Facilities**

(3) Prepared By B. R. Smith Date 12/29/99

(4)	Applicable To:	☐ ONS	☒ MNS	☒ CNS
(5)	Technical Advisor		[signature]	B.R. Smith
(6)	Requires 10CFR50.59 Evaluation?	☐ Yes ☐ No	☑ Yes ☐ No	☒ Yes ☐ No
		YES = New procedure or revision with major changes at applicable site		NO = Revision with minor changes NO = To incorporate previously approved changes
(7)	Review (QR)	By ___ Date ___	By Alan L. Beaver Date 1/14/2000	By Gary L Mitchell Date 12/29/99
	Cross-Disciplinary Review (QR)	By ___ NA ___ Date ___	By ___ NA ALB Date 1/14/2000	By ___ NA GLM Date 12/29/99
	Reactivity Mgmt. Review (QR)	By ___ NA ___ Date ___	By ___ NA ALB Date 1/14/2000	By ___ NA GLM Date 12/29/99
(8)	Additional Reviews	By ___ Date ___ By ___ Date ___	By Libby Applegate Date 12-30-99 By ___ Date ___	By ___ Date ___ By ___ Date ___
(9)	Approved	By ___ Date ___	By [signature] Date 1/24/2000	By Richard R. Swaggert Date 12/29/99
(10)	Use Level	**Multiple Use**		

PERFORMANCE (Compare with Control Copy every 14 calendar days while work is being performed.)

(11) Compared with Control Copy ______________ Date ______

Compared with Control Copy ______________ Date ______

Compared with Control Copy ______________ Date ______

(12) Date(s) Performed ______________

Work Order Number (WO#) ______________

COMPLETION

(13) Procedure Completion Verification

☐ Yes ☐ NA Check lists and/or blanks initialed, signed, dated, or filled in NA, as appropriate?

☐ Yes ☐ NA Listed enclosures attached?

☐ Yes ☐ NA Data sheets attached, completed, dated, and signed?

☐ Yes ☐ NA Charts, graphs, etc. attached, dated, identified, and marked?

☐ Yes ☐ NA Procedure requirements met?

Verified By ______________ Date ______

(14) Procedure Completion Approved ______________ Date ______

(15) Remarks (*Attach additional pages, if necessary.*)

Duke Power Company McGuire/Catawba Nuclear Station **Standard Procedure for EOF Commodities and Facilities** **Multiple Use**	Procedure No. **SR/0/B/2000/002** Revision No. 001 Electronic Reference No. CP0094AZ

Standard Procedure for EOF Commodities and Facilities

1. Symptoms

An emergency condition exists requiring EOF activation.

2. Immediate Actions

Activate the EOF C&F Telephone Call-up list utilizing the EOF Commodities and Facilities Reference Guide. (Section 4.1)

The following commodities and facilities functions are established or made available:

- Communication Systems (Enclosure 4.1)
- Fleet Services (Enclosure 4.2)
- Administration (Enclosure 4.3)
- Commissary (Enclosure 4.4)
- Risk Management (Enclosure 4.5)
- Purchasing (Enclosure 4.6)

3. Subsequent Actions

Shutdown EOF per Enclosure 4.7.

4. Enclosures

4.1 Communications

4.2 Fleet Services

4.3 Administration

4.4 Commissary

4.5 Risk Management

4.6 Purchasing

4.7 EOF Shutdown Checklist

NOTE:	**Refer to the EOF Commodities and Facilities Reference Guide for specific information regarding contacts, phone numbers, and available equipment/services.**

1. Purpose

Provides the telephone and radio requirements of the overall recovery organization as well as electrical needs.

2. Major Functions

2.1 Install and maintain telephone system.

2.2 Supply mobile radios and radio pagers.

2.3 Install additional electrical hookups as needed.

NOTE:	Telecommunications Operations Center is staffed 7 days a week, 24 hours a day.

2.4 Notify Telecommunications Operations Center should any additional problem solving be necessary and/or additional personnel be required.

3. Communications Systems

Telephone System

The system consists of independent lines for use by Emergency Response personnel and provisions are made for phones for NRC use and special off-site agency coordination use.

Radio Systems

These systems consist of 3 independent systems for use by the Offsite Communicators, NC, and SC (State Radios and Low Band system), and Duke Dose Assessment (800 Mhz system).

4. Equipment

Communications: All communication equipment for the MNS/CNS EOF is in each individual room and location.

NOTE:	**Refer to the EOF Commodities and Facilities Reference Guide for specific information regarding contacts, phone numbers, and available equipment/services.**

1. Purpose

Provides necessary equipment for movement of material and personnel.

2. Major Functions

2.1 Furnish vehicles and operators for personnel and equipment movement.

2.2 Provide common carrier and specialized carrier service for specific material and personnel needs.

2.3 Coordinate, trace, and expedite material deliveries and shipments in and out of recovery site.

2.4 Provide fuel for on-site recovery vehicles.

2.5 Transport environmental samples for analysis upon request by the Radiological Assessment Group.

3. Additional Personnel Required

Additional personnel may be required to handle functions such as shuttle service, garbage pickup, environmental sample transport. Immediate needs are to be assessed upon arrival at the site.

4. First Call-Out

4.1 On the first call-out, the director or designee will organize and transport the equipment and operating personnel needed initially.

4.2 The first contingency will begin with establishment of base operations. This will include personnel establishment and transport equipment assessment.

4.3 Equipment presently harbored at the General Office, Toddville, McGuire and Catawba sites, depending on the magnitude and need, is available for use at the onset. An assessment of availability will be made on arrival of the first transportation contingency.

4.4 Environmental samples transport requests will be initiated by the Radiological Assessment Group. The time and location of sample pick-up will be determined by the Transportation Director and Field Monitoring Coordinator. Sample destination will be the Applied Science Center (ASC) or unaffected station, as specified by the Radiological Assessment Group.

NOTE:	**Refer to the EOF Commodities and Facilities Reference Guide for specific information regarding contacts, phone numbers, and available equipment/services.**

1. Purpose

To provide general administrative office support and supplies.

2. Major Functions

2.1 Provide office supplies and equipment.

2.2 Provide photography services and cameras.

2.3 Provide secretarial/clerical services.

2.4 Provide telephone call-out list for Commodities & Facilities team.

2.5 Provide copy services.

2.6 Provide air travel, hotel, and car rental arrangements.

2.7 Contact Payroll to get checks for individuals upon request.

2.8 Provide assistance for Petty Cash activities.

2.9 Provide in-house craft resources as requested.

2.10 Verify from the EOF Off-Site Agency Communicators that the EOF clocks have the correct time and have been synchronized.

3. Action List Upon Arrival at EOF

3.1 Upon arrival at EOF, members of the Administration staff will be responsible for the following:

3.1.1 Ensure that Commodities and Facilities area is set up.

3.1.1.1 Supply cabinet unlocked and open.

3.1.1.2 Get pads, pencils, etc., out of cabinet.

NOTE:	The correct time can be obtained from the EOF Off-Site Agency Communicators

3.1.1.3 Verify facility clocks have been synchronized.

3.1.2 Furnish additional personnel if needed.

3.1.3 Copy Center / Fax services.

3.1.4 Main Frame Computers and VMS Servers.

3.1.5 Upon EOF activation, contact the College Street Center to inform them of the need to keep mainframe computers and VMS servers available.

NOTE:	Network Operations is available 7 days a week, 24 hours a day.

3.1.6 Contact the lead operator at Network Operations (College Street).

A. Request they contact Duke Shift Supervisor and VMS Support on call personnel.

B. Advise Network Operations to alert Duke Shift Supervisor and VMS Support of the drill/emergency and the necessity to keep mainframe computer and VMS servers available.

4. Action List for Changing from Emergency to Recovery Mode

4.1 Replenish supplies.

4.2 Determine additional space requirements.

4.3 Prepare weekly work schedules.

4.4 Determine hotel/motel accommodations and travel requirements; contact Corporate Travel Center for securing these requirements.

NOTE:	**Refer to the EOF Commodities and Facilities Reference Guide for specific information regarding contacts, phone numbers, and available equipment/services.**

1. Purpose

Meet basic nutritional and personal needs of the recovery organization.

2. Major Functions

2.1 Furnish food and beverage.

2.2 Provide tables and chairs.

2.3 Provide tents.

2.4 Furnish portable toilets.

2.5 Furnish trash receptacles.

3. Tasks Upon Arrival

3.1 Public Address system switched on. (P.A. amplifier is in Janitor Storage Room).

3.2 Copiers in the Copy Room and Offsite Agency Communications area turned on.

4. Recovery Mode (Perform the following if necessary)

4.1 Notify Food Vendors - Set up shift operations to support recovery efforts for meals and breaks (snacks) with times and locations for serving.

4.2 Notify chairs and table suppliers/vendors for appropriate needs and quantities.

4.3 Notify tent suppliers for appropriate needs and quantities.

4.4 Notify portable toilet suppliers for appropriate needs and quantities.

4.5 Notify trash receptacles suppliers for appropriate needs and quantities.

4.6 Establish shift coverage of commissary personnel to support total recovery efforts.

NOTE:	**Refer to the EOF Commodities and Facilities Reference Guide for specific information regarding contacts, phone numbers, and available equipment/services.**

1. Purpose

1.1 Serve as liaison between Duke and insurance companies.

1.2 Interface with other EOF groups to provide assistance needed by insurance companies.

2. Major Functions

2.1 Provide contact with insurance companies.

2.2 Assist insurance companies in data gathering.

2.3 Assist insurance companies in establishing claims offices to disburse emergency assistance funds to evacuees.

3. Interfacing with Other Groups

3.1 Interface with appropriate technical support groups to obtain the necessary technical information sufficient to satisfy the needs of the insurance companies.

3.2 Work with Administrative Group to provide assistance in securing motel reservations if insurance companies should dispatch an investigative team.

3.3 Claims Office

3.3.1 In the event it becomes necessary to evacuate members of the general public, the insurance company would set up claims offices to disburse emergency assistance funds.

3.3.2 The Risk Management Group would provide as much assistance as possible in expediting the setting up of this claims office.

3.3.3 The Risk Management Group would also communicate with Public Affairs about its location and operation. Claims would be handled by insurance company personnel.

NOTE:	**Refer to the EOF Commodities and Facilities Reference Guide for specific information regarding contacts, phone numbers, and available equipment/services.**

1. Purpose

Coordinate all activities with the Recovery Organization relating to procurement of materials, equipment and services.

NOTE:	The EOF Director and Commodities and Facilities Manager are authorized to approve expenses incurred in the performance of the duties described in this procedure.

2. Major Functions

2.1 Issue requisitions.

2.2 Negotiate contracts.

2.3 Issue purchase orders.

2.4 Expedite hardware and software.

2.5 Coordinate receipt of material.

2.6 Coordinate distribution of material.

3. Additional Personnel Required

3.1 Since most of the purchasing function will be handled in either the General Office or the Site Purchasing Groups, the entire Purchasing Department will be at the Purchasing Director's disposal. The General Office and Site Purchasing Groups will deploy and staff back-up teams per the Purchasing Director's instructions.

3.2 The EOF Purchasing team will utilize the clerical support provided by the Administration Director for necessary support functions in the EOF.

4. Arrival at EOF

4.1 The Purchasing Director will assess the situation and activate the GO Purchasing team, if necessary.

4.2 Immediate work will begin on procurement of equipment, material and services as may be required.

5. Interface with Other Groups

5.1 Work with Transportation Director to ensure expeditious delivery of equipment to the site and with the Administration Director to obtain required funds from petty cash for small purchases.

5.2 Work with Nuclear Generation Department concerning the receipt and distribution of equipment and materials.

6. Crisis Stage to Recovery Stage

NOTE: The following is a checklist of things to do and/or consider when moving from the CRISIS STAGE to the RECOVERY STAGE of an event.

6.1 Activate Purchasing back-up teams.

6.2 Prepare work schedule for Purchasing team.

6.3 Assess need for additional personnel support.

6.4 Assess need to activate Field Commodity contacts.

6.5 Establish expediting level at Level One.

7. Procedures

7.1 Requisitioning Equipment

7.1.1 When it has been determined that material, equipment, or services are needed, Purchasing Coordinators at the EOF will convey that need as rapidly as possible to the Purchasing Department utilizing telephones and/or fax machines.

7.1.2 Requisitions for the recovery effort will be expedited through the Purchasing Department system for immediate order processing.

7.2 Expediting

Expediting Level One or higher will apply to all purchases for the recovery operation unless determined otherwise.

7.3 Receiving

7.3.1 Receipt of material and equipment will be handled by the Nuclear Site Commodities & Facilities Group.

7.3.2 A member of the Emergency Operations Purchasing Team will coordinate with Receiving to assure that the material gets to the appropriate destination at the site.

NOTE:	**Refer to the EOF Commodities and Facilities Reference Guide for specific information regarding contacts, phone numbers, and available equipment/services.**

1. Administration

INITIALS

____ 1.1 Secure Commodities & Facilities area.

____ 1.2 Restock office supplies as necessary.

____ 1.3 Arrange for return of relocated office equipment.

____ 1.4 Notify Hotels/Motels of release of rooms.

____ 1.5 Assist personnel needing airline transportation home.

2. Communications

____ 2.1 Secure radio base stations.

____ 2.2 Contact Computer Support to release computers from emergency status.

____ 2.3 Return portable communications equipment to storage location (if applicable).

3. Purchasing

____ Transfer information on outstanding requisitions to normal Purchasing contacts.

4. Commissary

____ 4.1 Notify vendors to discontinue food service to Emergency Operations Facility.

____ 4.2 Notify vendors to pick up furniture and equipment not required for Recovery.

____ 4.3 Make arrangements for trash removal.

____ 4.4 Copy machines cut off.

____ 4.5 Public address system off.

5. Fleet Services

_____ 5.1 Arrange for transport of relocated equipment to original location, if applicable.

_____ 5.2 Arrange for transportation home for personnel (as needed).

6. Risk Management

_____ Notify insurance companies of change in status.