

**DUKE ENERGY**  
**McGUIRE NUCLEAR SITE**  
**EMERGENCY PLAN**

**APPROVED:** Thomas D. Ray  
**SITE VICE PRESIDENT**

**DATE APPROVED:** 11/9/2018

**REVISION 18-3: November, 2018**

**EFFECTIVE DATE: November, 2018**

**ORIGINAL DATE: August 25, 1980**

DUKE ENERGY COMPANY  
McGUIRE NUCLEAR SITE  
EMERGENCY PLAN  
REVISION LIST

August 25, 1980 Date Issued

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Change 2, February, 1981	Revision 92-1, August 1992
Change 3, June, 1981	Revision 92-2, October 1992
Change 4, August, 1981	Rev. 93-1, April 1993
Revision 1, November 16, 1981	Rev. 93-2, June, 1993
Revision 2, February, 1982	Rev. 93-3, December 1993
Revision 3, February, 1982	Rev. 94-1, January, 1994
Revision 4, April, 1982	Rev. 94-2, June, 1994
Revision 5, June, 1982	Rev. 94-3, August 1994
Revision 6, July, 1982	Rev. 94-4, October 1994
Revision 7, September, 1982	Rev. 95-1, February 1995
Revision 8, November, 1982	Rev. 95-2, April 1995
Revision 9, January, 1983	Rev. 96-1, April 1996
Revision 10, February, 1983	Rev. 96-2, July 1996
Revision 11, June, 1983	Rev. 97-1, April 1997
Revision 12, November, 1983	Rev. 97-2, May 1997
Revision 13, March, 1984	Rev. 97-3, July, 1997
Revision 14, August, 1984	Rev. 98-1, January, 1998
Revision 15, January, 1985	Rev. 98-2, February, 1998
Revision 16, March, 1985	Rev. 98-3, May, 1998
Revision 17, May, 1985	Rev. 98-4, July, 1998
Revision 18, November, 1985	Rev. 98-5, August, 1998
Revision 19, January, 1986	Rev. 98-6, November, 1998
Revision 20, July, 1986	Rev. 99-1, March, 1999
Revision 21, May, 1987	Rev. 99-2, July, 1999
Revision 22, June, 1987	Rev. 99-3 November, 1999
Revision 23, November, 1987	Rev. 00-1, April, 2000
Revision 24, March, 1988	Rev. 00-2, May, 2000
Revision 25, July, 1988	Rev. 00-3, November, 2000
Revision 26, July, 1989	Rev. 01-1, January, 2001
Revision 27, September, 1989	Rev. 01-2, June, 2001
Revision 28, October, 1989	Rev. 02-1, March, 2002
Revision 29, November, 1989	Rev. 02-2, August, 2002
Revision 30, March, 1990	Rev. 03-1, April, 2003
Revision 31, April, 1991	Rev. 03-2, June, 2003
Revision 32, July, 1991	Rev. 04-1, February, 2004
Revision 33, September, 1991	Rev. 04-2, July, 2004
Revision 34, October, 1991	Rev. 05-1, July, 2005
Revision 35, December, 1991	Rev. 06-1, January, 2006
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Rev. 07-2, December, 2007  
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Rev. 18-2, May, 2018  
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Coversheet                      Rev. 18-3                      November, 2018

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**C. Emergency Response Support & Resources**

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**D. Emergency Class System/EAL Basis Document**

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Rev. 15-3                                      October, 2015  
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Rev. 15-2                                      July, 2015  
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**Appendix 4 Evacuation Time Estimates**

Rev. 15-2                                      July, 2015  
Page 1

**Appendix 5 Agreement Letters**

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**Appendix 7 SPCC Plan**

Removed from EPLAN      Rev. 18-3      November, 2018      |

**Appendix 8 Hazardous Waste Contingency Plan**

Removed from EPLAN      Rev. 18-3      November, 2018      |

**Appendix 9 Hazardous Materials Response Plan**

Removed from EPLAN      Rev. 18-3      November, 2018      |

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EMERGENCY PLAN CHANGE SCREENING AND  
EFFECTIVENESS EVALUATIONS 10 CFR 50.54(Q)

AD-EP-ALL-0602

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ATTACHMENT 4

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<< 10 CFR 50.54(q) Screening Evaluation Form >>

Screening and Evaluation Number		Applicable Sites	
EREG #: 2238550		BNP	<input type="checkbox"/>
		CNS	<input type="checkbox"/>
		CR3	<input type="checkbox"/>
		HNP	<input type="checkbox"/>
5AD #: 2238549		MNS	<input checked="" type="checkbox"/>
		ONS	<input type="checkbox"/>
		RNP	<input type="checkbox"/>
		GO	<input type="checkbox"/>
Document and Revision MNS EPLAN Section Q, Rev. 18-3	Section Q, Appendices 7, 8 & 9		

<< 10 CFR 50.54(q) Screening Evaluation Form >>

Part I. Description of Activity Being Reviewed (event or action, or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):

#	E-Plan or Procedure Section Reference	Current (Existing) Text	Proposed (Change) Text	Supporting Rationale (Justification) for Change
1.	Section Q	<p>Appendix 7 SPCC</p> <p>Appendix 8 Hazardous Waste Contingency Plan</p> <p>Appendix 9 Hazardous Materials Response Plan</p>	<p>Appendix 7 SPCC (Deleted)</p> <p>Appendix 8 Hazardous Waste Contingency Plan (Deleted)</p> <p>Appendix 9 Hazardous Materials Response Plan (Deleted)</p>	<p>SPCC and Hazardous Materials Response Plan do not touch any 10CFR50.47(b) or Part 50 Appendix E planning standards and there are no requirements or commitments to locate these documents within the emergency plan. These documents are owned by Environmental Health and Safety, and Operations, respectively. Hazardous Waste Contingency Plan is no longer required/maintained at MNS as MNS is not considered a Large Waste Generator.</p>

Part II. Activity Previously Reviewed?

Yes

No

EMERGENCY PLAN CHANGE SCREENING AND EFFECTIVENESS EVALUATIONS 10 CFR 50.54(Q)	AD-EP-ALL-0602
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**ATTACHMENT 4**  
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**<< 10 CFR 50.54(q) Screening Evaluation Form >>**

<p>Is this activity Fully bounded by an NRC approved 10 CFR 50.90 submittal or Alert and Notification System Design Report?</p> <p>If yes, identify bounding source document number or approval reference and ensure the basis for concluding the source document fully bounds the proposed change is documented below:</p> <p>Justification:</p>	<p>10 CFR 50.54(q) Effectiveness Evaluation is not required. Enter justification below and complete Attachment 4, Part V.</p>	<p>Continue to Attachment 4, 10 CFR 50.54(q) Screening Evaluation Form, Part III</p>
<p>Bounding document attached (optional)</p>		<p><input type="checkbox"/></p>

<< 10 CFR 50.54(q) Screening Evaluation Form >>

Part III. Editorial Change Is this activity an editorial or typographical change only, such as formatting, paragraph numbering, spelling, or punctuation that does not change intent?  Justification:		Yes <input type="checkbox"/>	No <input type="checkbox"/>	X <input type="checkbox"/>
		10 CFR 50.54(q) Effectiveness Evaluation is not required. Enter justification and complete Attachment 4, Part V.	Continue to Attachment 4, Part IV and address non editorial changes	
Part IV. Emergency Planning Element and Function Screen (Reference Attachment 1, Considerations for Addressing Screening Criteria) Does this activity involve any of the following, including program elements from NUREG-0654/FEMA REP-1 Section II? If answer is yes, then check box.				
1	10 CFR 50.47(b)(1) Assignment of Responsibility (Organization Control)			
1a	Responsibility for emergency response is assigned.			<input type="checkbox"/>
1b	The response organization has the staff to respond and to augment staff on a continuing basis (24-7 staffing) in accordance with the emergency plan.			<input type="checkbox"/>
2	10 CFR 50.47(b)(2) Onsite Emergency Organization			
2a	Process ensures that onshift emergency response responsibilities are staffed and assigned			<input type="checkbox"/>
2b	The process for timely augmentation of onshift staff is established and maintained.			<input type="checkbox"/>
3	10 CFR 50.47(b)(3) Emergency Response Support and Resources			
3a	Arrangements for requesting and using off site assistance have been made.			<input type="checkbox"/>
3b	State and local staff can be accommodated at the EOF in accordance with the emergency plan. (NA for CR3)			<input type="checkbox"/>
4	10 CFR 50.47(b)(4) Emergency Classification System			
4a	A standard scheme of emergency classification and action levels is in use. (Requires final approval of Screen and Evaluation by EP CFAM.)			<input type="checkbox"/>
5	10 CFR 50.47(b)(5) Notification Methods and Procedures			
5a	Procedures for notification of State and local governmental agencies are capable of alerting them of the declared emergency within 15 minutes (60 minutes for CR3) after declaration of an emergency and providing follow-up notification.			<input type="checkbox"/>
5b	Administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway. (NA for CR3)			<input type="checkbox"/>
5c	The public ANS meets the design requirements of FEMA-REP-10, Guide for Evaluation of Alert and Notification Systems for Nuclear Power Plants, or complies with the licensee's FEMA-approved ANS design report and supporting FEMA approval letter. (NA for CR3)			<input type="checkbox"/>

## &lt;&lt; 10 CFR 50.54(q) Screening Evaluation Form &gt;&gt;

Part IV. Emergency Planning Element and Function Screen (cont.)		
6	10 CFR 50.47(b)(6) Emergency Communications	
6a	Systems are established for prompt communication among principal emergency response organizations.	<input type="checkbox"/>
6b	Systems are established for prompt communication to emergency response personnel.	<input type="checkbox"/>
7	10 CFR 50.47(b)(7) Public Education and Information	
7a	Emergency preparedness information is made available to the public on a periodic basis within the plume exposure pathway emergency planning zone (EPZ). (NA for CR3)	<input type="checkbox"/>
7b	Coordinated dissemination of public information during emergencies is established.	<input type="checkbox"/>
8	10 CFR 50.47(b)(8) Emergency Facilities and Equipment	
8a	Adequate facilities are maintained to support emergency response.	<input type="checkbox"/>
8b	Adequate equipment is maintained to support emergency response.	<input type="checkbox"/>
9	10 CFR 50.47(b)(9) Accident Assessment	
9a	Methods, systems, and equipment for assessment of radioactive releases are in use.	<input type="checkbox"/>
10	10 CFR 50.47(b)(10) Protective Response	
10a	A range of public PARs is available for implementation during emergencies. (NA for CR3)	<input type="checkbox"/>
10b	Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities. (NA for CR3)	<input type="checkbox"/>
10c	A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events.	<input type="checkbox"/>
10d	KI is available for implementation as a protective action recommendation in those jurisdictions that chose to provide KI to the public.	<input type="checkbox"/>
11	10 CFR 50.47(b)(11) Radiological Exposure Control	
11a	The resources for controlling radiological exposures for emergency workers are established.	<input type="checkbox"/>
12	10 CFR 50.47(b)(12) Medical and Public Health Support	
12a	Arrangements are made for medical services for contaminated, injured individuals.	<input type="checkbox"/>
13	10 CFR 50.47(b)(13) Recovery Planning and Post-accident Operations	
13a	Plans for recovery and reentry are developed.	<input type="checkbox"/>
14	10 CFR 50.47(b)(14) Drills and Exercises	
14a	A drill and exercise program (including radiological, medical, health physics and other program areas) is established.	<input type="checkbox"/>
14b	Drills, exercises, and training evolutions that provide performance opportunities to develop, maintain, and demonstrate key skills are assessed via a formal critique process in order to identify weaknesses.	<input type="checkbox"/>
14c	Identified weaknesses are corrected.	<input type="checkbox"/>
15	10 CFR 50.47(b)(15) Emergency Response Training	
15a	Training is provided to emergency responders.	<input type="checkbox"/>

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Part IV. Emergency Planning Element and Function Screen (cont.)		
16	10 CFR 50.47(b)(16) Emergency Plan Maintenance	
16a	Responsibility for emergency plan development and review is established.	<input type="checkbox"/>
16b	Planners responsible for emergency plan development and maintenance are properly trained.	<input type="checkbox"/>
PART IV. Conclusion		
If no Part IV criteria are checked, then provide Justification and complete Part V below.		
<p>Justification: The Hazardous Waste Contingency Plan, and Spill Prevention, Control and Countermeasures Plan (SPCC) are owned by Environmental Health and Safety (EH &amp;S). The Hazardous Materials Response Plan is owned by Operations. There are no commitments to maintain these documents as part of the McGuire Nuclear Station (MNS) Emergency Plan; no Part IV planning standards are affected by these documents; and, neither document implements the Emergency Plan. Additionally, the Hazardous Waste Contingency Plan is no longer maintained at MNS as MNS is no longer considered a Large Quantity Waste Generator. EH &amp;S is placing the SPCC into Fusion so that it will be easily retrievable for reference. Removal of these documents from the MNS Emergency Plan does not represent a reduction-in-effectiveness of the E-Plan as they are not related to any planning standard.</p>		X
<p>If any Attachment 4, 10 CFR 50.54(q) Screening Evaluation Form, Part IV criteria are checked, then complete Attachment 4, 10 CFR 50.54(q) Screening Evaluation Form, Part V and perform a 10 CFR 50.54(q) Effectiveness Evaluation. Program Element 4a requires final approval of Screen and Evaluation by EP CFAM.</p>		<input type="checkbox"/>

Part V. Signatures:		
EP CFAM Final Approval is required for changes affecting Program Element 4a. If CFAM approval is <b>NOT</b> required, then mark the EP CFAM signature block as not applicable (N/A) to indicate that signature is not required.		
Preparer Name (Print): Renard Burris	Preparer Signature: <i>CAS</i>	Date: 10/22/18
Reviewer Name (Print): <i>Matt Nelson</i>	Reviewer Signature: <i>CAS</i>	Date: <i>10-29-18</i>
Approver (EP Manager Name (Print): <i>Kevin Murray</i>	Approver Signature: <i>CAS</i>	Date: <i>10-31-18</i>
Approver (EP CFAM, as required) Name/(Print) <i>N/A</i>	Approver Signature: <i>N/A</i>	Date: <i>N/A</i>

EMERGENCY PLAN CHANGE SCREENING AND EFFECTIVENESS EVALUATIONS 10 CFR 50.54(Q)	AD-EP-ALL-0602
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