

EMERGENCY PLAN CHANGE SCREENING AND EFFECTIVENESS EVALUATIONS 10 CFR 50.54(Q)	AD-EP-ALL-0602
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Screening and Evaluation Number		Applicable Sites																					
EREG #: <u>02304323</u>		BNP	<input type="checkbox"/>																				
		CNS	<input type="checkbox"/>																				
		CR3	<input type="checkbox"/>																				
		HNP	<input type="checkbox"/>																				
5AD #: <u>02304265</u>		MNS	<input checked="" type="checkbox"/>																				
		ONS	<input type="checkbox"/>																				
		RNP	<input type="checkbox"/>																				
		GO	<input type="checkbox"/>																				
Document and Revision	McGuire Emergency Plan Section D (EMERGENCY ACTION LEVEL TECHNICAL BASES) Revision 19-2																						
<p>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):</p> <p>Under License Amendment Request (ML19058A632) and Amendment Nos. 315 and 294 to Renewed Facility Operating License Nos. NPF-9 and NPF-17 for the McGuire Nuclear Station, Units 1 and 2 (McGuire); McGuire Nuclear Station's Section D Revision 19-2 includes changes to EALs and the technical basis for the following:</p> <table border="1"> <thead> <tr> <th>Change #</th> <th>Section</th> <th>Current</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Page Headings</td> <td>NA</td> <td>Added as needed due addition and/or deletion of information</td> </tr> <tr> <td>2</td> <td>Footer</td> <td>Revision 19-1 July, 2019</td> <td>Revision 19-2 December, 2019</td> </tr> <tr> <td>3</td> <td>Footer</td> <td>NA</td> <td>Renumbered page numbers as needed due addition and/or deletion of information changing page numbers</td> </tr> <tr> <td>4</td> <td>5.1 Definitions (page D-19), CA6.1 Basis (old page D-105) and SA9.1 Basis (old page 192)</td> <td>           Visible Damage             Damage to a component or structure that is readily observable without measurements, testing, or analysis. The visual impact of the damage is sufficient to cause concern regarding the operability or reliability of the affected component or structure.         </td> <td>           Visible Damage             Damage to a SAFETY SYSTEM train that is readily observable without measurements, testing, or analysis. The visual impact of the damage is sufficient to cause concern regarding the operability or reliability of the affected SAFETY SYSTEM train.         </td> </tr> </tbody> </table>				Change #	Section	Current	Proposed	1	Page Headings	NA	Added as needed due addition and/or deletion of information	2	Footer	Revision 19-1 July, 2019	Revision 19-2 December, 2019	3	Footer	NA	Renumbered page numbers as needed due addition and/or deletion of information changing page numbers	4	5.1 Definitions (page D-19), CA6.1 Basis (old page D-105) and SA9.1 Basis (old page 192)	Visible Damage  Damage to a component or structure that is readily observable without measurements, testing, or analysis. The visual impact of the damage is sufficient to cause concern regarding the operability or reliability of the affected component or structure.	Visible Damage  Damage to a SAFETY SYSTEM train that is readily observable without measurements, testing, or analysis. The visual impact of the damage is sufficient to cause concern regarding the operability or reliability of the affected SAFETY SYSTEM train.
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5	6.0 MNS-TO-NEI 99-01 Rev. 6 EAL CROSS-REFERENCE (page D-25)	HG1.1 HG1 1	None	
6	EAL CA6.1 Alert (page D-104)	<p>The occurrence of <b>any</b> Table C-5 hazardous event</p> <p><b>AND EITHER:</b></p> <ul style="list-style-type: none"> <li>Event damage has caused indications of degraded performance in at least one train of a SAFETY SYSTEM needed for the current operating mode</li> <li>The event has caused <b>VISIBLE DAMAGE</b> to a SAFETY SYSTEM component or structure needed for the current operating mode</li> </ul>	<p>The occurrence of <b>any</b> Table C-5 hazardous event</p> <p><b>AND</b></p> <p>Event damage has caused indications of degraded performance on one train of a SAFETY SYSTEM needed for the current operating mode</p> <p><b>AND EITHER</b> of the following:</p> <ul style="list-style-type: none"> <li>Event damage has caused indications of degraded performance to a second train of the SAFETY SYSTEM needed for the current operating mode</li> <li>The event has resulted in <b>VISIBLE DAMAGE</b> to the second train of the SAFETY SYSTEM component or structure needed for the current operating mode</li> </ul> <p>(Note 11, 12)</p> <p>Note 11: If the affected SAFETY SYSTEM train was already inoperable or out of service before the hazardous event occurred, then this emergency classification is not warranted.</p> <p>Note 12: If the hazardous event only resulted in <b>VISIBLE DAMAGE</b>, with no indications of degraded performance to at least one train of a SAFETY SYSTEM, then this emergency classification is not warranted.</p>	

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7	EAL CA6.1 Basis 6 <sup>th</sup> Bullet (old page D-106)	An explosion that degrades the performance of a SAFETY SYSTEM train or visibly damages a SAFETY SYSTEM component or structure would be classified under this EAL.	None	
8	EAL CA6.1 Basis Four Paragraphs after Bullets (old page D-106)	<p>This IC addresses a hazardous event that causes damage to a SAFETY SYSTEM, or a structure containing SAFETY SYSTEM components, needed for the current operating mode. This condition significantly reduces the margin to a loss or potential loss of a fission product barrier, and therefore represents an actual or potential substantial degradation of the level of safety of the plant.</p> <p>The first conditional addresses damage to a SAFETY SYSTEM train that is in service/operation since indications for it will be readily available. The indications of degraded performance should be significant enough to cause concern regarding the operability or reliability of the SAFETY SYSTEM train.</p> <p>The second conditional addresses damage to a SAFETY SYSTEM component that is not in service/operation or readily apparent through indications alone, or to a structure containing SAFETY SYSTEM components. Operators will make this determination based on the totality of available event and damage report information. This is intended to be a brief assessment not requiring lengthy analysis or quantification of the damage.</p>	<p>This IC addresses a hazardous event that causes damage to SAFETY SYSTEMS needed for the current operating mode. In order to provide the appropriate context for consideration of an ALERT classification, the hazardous event must have caused indications of degraded SAFETY SYSTEM performance in one train, and there must be either indications of performance issues with the second SAFETY SYSTEM train or VISIBLE DAMAGE to the second train such that the potential exists for this second SAFETY SYSTEM train to have performance issues. In other words, in order for this EAL to be classified, the hazardous event must occur, at least one SAFETY SYSTEM train must have indications of degraded performance, and the second SAFETY SYSTEM train must have indications of degraded performance or VISIBLE DAMAGE such that the potential exists for performance issues. Note that this second SAFETY SYSTEM train is from the same SAFETY SYSTEM that has indications of degraded performance for criteria in the first condition of this EAL; commercial nuclear power plants are designed to be able to support single system issues without compromising public health and safety from radiological events.</p>	

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		Escalation of the emergency classification level would be via IC CS1 or RS1.	<p>Indications of degraded performance address damage to a SAFETY SYSTEM train that is in service/operation since indications for it will be readily available. The indications of degraded performance should be significant enough to cause concern regarding the operability or reliability of the SAFETY SYSTEM train.</p> <p>Operators will make a determination of VISIBLE DAMAGE based on the totality of available event and damage report information. This is intended to be a brief assessment not requiring lengthy analysis or quantification of the damage. This VISIBLE DAMAGE should be significant enough to cause concern regarding the operability or reliability of the SAFETY SYSTEM train.</p> <p>Escalation of the emergency classification level would be via IC RS1.</p>	
9	EAL HU1.1 Basis Second Paragraph (old page D-109)	<p>This IC addresses events that pose a threat to plant personnel or SAFETY SYSTEM equipment, and thus represent a potential degradation in the level of plant safety. Security events which do not meet one of these EALs are adequately addressed by the requirements of 10 CFR § 73.71 or 10 CFR § 50.72. Security events assessed as HOSTILE ACTIONS are classifiable under ICs HA1, HS1 and HG1.</p>	<p>This IC addresses events that pose a threat to plant personnel or SAFETY SYSTEM equipment, and thus represent a potential degradation in the level of plant safety. Security events which do not meet one of these EALs are adequately addressed by the requirements of 10 CFR § 73.71 or 10 CFR § 50.72. Security events assessed as HOSTILE ACTIONS are classifiable under ICs HA1 and HS1.</p>	

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10	EAL HU1.2 Basis Second Paragraph (old page D-111)	This IC addresses events that pose a threat to plant personnel or SAFETY SYSTEM equipment, and thus represent a potential degradation in the level of plant safety. Security events which do not meet one of these EALs are adequately addressed by the requirements of 10 CFR § 73.71 or 10 CFR § 50.72. Security events assessed as HOSTILE ACTIONS are classifiable under ICs HA1, HS1 and HG1.	This IC addresses events that pose a threat to plant personnel or SAFETY SYSTEM equipment, and thus represent a potential degradation in the level of plant safety. Security events which do not meet one of these EALs are adequately addressed by the requirements of 10 CFR § 73.71 or 10 CFR § 50.72. Security events assessed as HOSTILE ACTIONS are classifiable under ICs HA1 and HS1.	
11	EAL HU1.3 Basis Second Paragraph (old page D-111)	This IC addresses events that pose a threat to plant personnel or SAFETY SYSTEM equipment, and thus represent a potential degradation in the level of plant safety. Security events which do not meet one of these EALs are adequately addressed by the requirements of 10 CFR § 73.71 or 10 CFR § 50.72. Security events assessed as HOSTILE ACTIONS are classifiable under ICs HA1, HS1 and HG1.	This IC addresses events that pose a threat to plant personnel or SAFETY SYSTEM equipment, and thus represent a potential degradation in the level of plant safety. Security events which do not meet one of these EALs are adequately addressed by the requirements of 10 CFR § 73.71 or 10 CFR § 50.72. Security events assessed as HOSTILE ACTIONS are classifiable under ICs HA1 and HS1.	
12	EAL HS1.1 Basis Eight Paragraph (old page D-120)	Escalation of the emergency classification level would be via IC HG1.	None	
13	EAL HG1.1 General Emergency (page D-121)	<b>Category:</b> H – Hazards <b>Subcategory:</b> 1 – Security <b>Initiating Condition:</b> Hostile Action resulting in loss of physical control of the facility <b>EAL:</b> <b>HG1.1 General Emergency</b>	None	
14	EAL SA9.1 Alert (page D-191)	The occurrence of <b>any</b> Table S-5 hazardous event	The occurrence of <b>any</b> Table S-5 hazardous event	

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		<p><b>AND EITHER:</b></p> <ul style="list-style-type: none"> <li>● Event damage has caused indications of degraded performance in at least one train of a SAFETY SYSTEM needed for the current operating mode</li> <li>● The event has caused VISIBLE DAMAGE to a SAFETY SYSTEM component or structure needed for the current operating mode</li> </ul>	<p><b>AND</b></p> <p>Event damage has caused indications of degraded performance on one train of a SAFETY SYSTEM needed for the current operating mode</p> <p><b>AND EITHER</b> of the following:</p> <ul style="list-style-type: none"> <li>● Event damage has caused indications of degraded performance to a second train of the SAFETY SYSTEM needed for the current operating mode</li> <li>● The event has resulted in VISIBLE DAMAGE to the second train of the SAFETY SYSTEM component or structure needed for the current operating mode</li> </ul> <p>(Note 11, 12)</p> <p>Note 11: If the affected SAFETY SYSTEM train was already inoperable or out of service before the hazardous event occurred, then this emergency classification is not warranted.</p> <p>Note 12: If the hazardous event only resulted in VISIBLE DAMAGE, with no indications of degraded performance to at least one train of a SAFETY SYSTEM, then this emergency classification is not warranted.</p>	
15	EAL SA9.1 Basis 6 <sup>th</sup> Bullet (old page D-192)	An explosion that degrades the performance of a SAFETY SYSTEM train or visibly damages a SAFETY SYSTEM component or structure would be classified under this EAL.	None	

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16	EAL SA9.1 Basis Three Paragraphs after Bullets (old page D-192)	<p>This IC addresses a hazardous event that causes damage to a SAFETY SYSTEM, or a structure containing SAFETY SYSTEM components, needed for the current operating mode. This condition significantly reduces the margin to a loss or potential loss of a fission product barrier, and therefore represents an actual or potential substantial degradation of the level of safety of the plant.</p> <p>The first conditional addresses damage to a SAFETY SYSTEM train that is in service/operation since indications for it will be readily available. The indications of degraded performance should be significant enough to cause concern regarding the operability or reliability of the SAFETY SYSTEM train.</p> <p>The second conditional addresses damage to a SAFETY SYSTEM component that is not in service/operation or readily apparent through indications alone, or to a structure containing SAFETY SYSTEM components. Operators will make this determination based on the totality of available event and damage report information. This is intended to be a brief assessment not requiring lengthy analysis or quantification of the damage.</p>	<p>This IC addresses a hazardous event that causes damage to SAFETY SYSTEMS needed for the current operating mode. In order to provide the appropriate context for consideration of an ALERT classification, the hazardous event must have caused indications of degraded SAFETY SYSTEM performance in one train, and there must be either indications of performance issues with the second SAFETY SYSTEM train or VISIBLE DAMAGE to the second train such that the potential exists for this second SAFETY SYSTEM train to have performance issues. In other words, in order for this EAL to be classified, the hazardous event must occur, at least one SAFETY SYSTEM train must have indications of degraded performance, and the second SAFETY SYSTEM train must have indications of degraded performance or VISIBLE DAMAGE such that the potential exists for performance issues. Note that this second SAFETY SYSTEM train is from the same SAFETY SYSTEM that has indications of degraded performance for criteria in the first condition of this EAL; commercial nuclear power plants are designed to be able to support single system issues without compromising public health and safety from radiological events.</p>	
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<b>Part III. Editorial Change</b> Is this activity an editorial or typographical change only, such as formatting, paragraph numbering, spelling, or punctuation that does not change intent?  Justification: Changes 1 through 3 are editorial updates to headers and footers to implement the License Amendments.		Yes <input type="checkbox"/>	No or Partially <input type="checkbox"/>	Continue to Attachment 4, Part IV and address non editorial changes
<b>Part IV. Emergency Planning Element and Function Screen (Reference Attachment 1, Considerations for Addressing Screening Criteria)</b> 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"/>

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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"/>												
<p>PART IV. Conclusion</p> <p>If no Part IV criteria are checked, then provide Justification and complete Part V below.</p> <p>Justification:</p> <p>All changes are either editorial or bounded changes. Thus, no 10CFR50.54(q) evaluation is required.</p> <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>														
<p>Part V. Signatures:</p> <p>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.</p> <table border="1"> <tr> <td>Preparer Name (Print): Barry Kimray</td> <td>Preparer Signature: See CAS</td> <td>Date: See CAS</td> </tr> <tr> <td>Reviewer Name (Print): See CAS</td> <td>Reviewer Signature: See CAS</td> <td>Date: See CAS</td> </tr> <tr> <td>Approver (Manager, Nuclear Support Services) Name (Print): See CAS</td> <td>Approver Signature: See CAS</td> <td>Date: See CAS</td> </tr> <tr> <td>Approver (EP CFAM, as required) Name (Print) N/A</td> <td>Approver Signature: N/A</td> <td>Date: N/A</td> </tr> </table>			Preparer Name (Print): Barry Kimray	Preparer Signature: See CAS	Date: See CAS	Reviewer Name (Print): See CAS	Reviewer Signature: See CAS	Date: See CAS	Approver (Manager, Nuclear Support Services) Name (Print): See CAS	Approver Signature: See CAS	Date: See CAS	Approver (EP CFAM, as required) Name (Print) N/A	Approver Signature: N/A	Date: N/A
Preparer Name (Print): Barry Kimray	Preparer Signature: See CAS	Date: See CAS												
Reviewer Name (Print): See CAS	Reviewer Signature: See CAS	Date: See CAS												
Approver (Manager, Nuclear Support Services) Name (Print): See CAS	Approver Signature: See CAS	Date: See CAS												
Approver (EP CFAM, as required) Name (Print) N/A	Approver Signature: N/A	Date: N/A												
<p>If the proposed activity is a change to the E-Plan, then initiate PRRs.</p> <p>If the proposed activity is a change to the E-Plan, then create two EREG General assignments</p> <p>If required by Section 5.6, Submitting Reports of Changes to the NRC, then create two EREG General Assignments.</p> <ul style="list-style-type: none"> <li>One for EP to provide the 10 CFR 50.54(q) summary of the analysis, or the completed 10 CFR 50.54(q), to Licensing.</li> <li>One for Licensing to submit the 10 CFR 50.54(q) information to the NRC within 30 days after the change is put in effect.</li> </ul>														

QA RECORD