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<< 10 CFR 50.54(q) Initiating Condition (IC) and Emergency Action Level (EAL) and EAL Bases Validation and Verification (V&V) Form >>

Screening or Evaluation Number: MNS Emergency Plan Section D - EAL Bases - Revision 19-1

Part I. Identification of ICs and EALs Affected by Proposed Change and the applicable NEI Generic ICs and EALs:

Document and Revision - Emergency Plan Section D 19-01 (EREG 02279019.

Change bases are -

- Change s1, 3 through 8, 14 through 16, 18, 20 through 22, 24 through 34, 36, 47 (period added at end of EAL), 54, and 56 through 58 -
 - Editorial changes correcting typos and formatting throughout.
- Change 51
 - o Deleted 'Operations' before Shift Manager to reflect correct position title in Section D Attachment 1, EAL Bases, EAL: HU7.1, HA7.1, HS7.1, HG7.1 Basis second sentence. Editorial.
- Changes 2, 9 through 13, 17, 35, 37 through 46, 47 (non-editorial), 48 through 50, 52, 53 and 55 -
 - The changes reflect that the EOF Director no longer maintains the function of Emergency Classification. Procedure SR/0/A/2000/003 (Activation of the Emergency Operations Facility Revision 010 implemented this change in the EOF for McGuire and was evaluated as meeting licensing and regulatory bases per EREG 02056256. Emergency Classification functions continue to be maintained by the Control Room Emergency Coordinator and the TSC Emergency Coordinator. Changes 39, 42 and 45 also pluralized 'Emergency Coordinator' for grammatical correctness.
- Change 23 -
 - This change added "Failure to isolate the leak within 15 minutes, or if known that the leak cannot be isolated within 15 minutes from the start of the leak, requires immediate classification." as part of the Bases for EAL SU5.1. This addition provides additional clarifying guidance to assure that classifications are made within 15 minutes of indication that an EAL was or will be exceeded. This change is an enhancement to the EAL SU5.1 Bases.

Change #	Plan Section	Current Revision	Proposed Revision	Reason
1	Section D	Table of Contents Rev 18-3	Table of Contents Rev 19-1	Update page numbers for Rev 19- 1. Editorial
2	Section D Section 1.0	This information may assist the Emergency Coordinator/EOF Director in making classifications, particularly those involving judgment or multiple events.	This information may assist the Emergency Coordinator in making classifications, particularly those involving judgment or multiple events.	Removed 'EOF Director' as he/she no longer has responsibility for classification.
3	Section D Section 2.3	Alert: Any loss or any potential loss of either Fuel Clad or NCS barrier Site	Alert: Any loss or any potential loss of either Fuel Clad or NCS barrier	Added carriage return between 'barrier' and 'Site'. Editorial

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		Area Emergency:	Site Area Emergency:	
4	Section D Section 2.4	EALs applicable under all plant operating modes –	EALs applicable under all plant operating modes –	Removed underline after 'all' and before 'plant'. Editorial
5	Section D Section 2.4	EALs applicable only under hot operating modes –	EALs applicable only under <u>hot</u> operating modes –	Removed underline after 'hot' and before 'operating'. Editorial
6	Section D Section 2.4	EALs applicable only under <u>cold</u> operating modes –	EALs applicable only under <u>cold</u> operating modes –	Removed underline after 'cold' and before 'operating'. Editorial
7	Section D Section 2.4	The MNS EAL categories are aligned to and represent the NEI 99- 01"Recognition Categories."	The MNS EAL categories are aligned to and represent the NEI 99- 01 "Recognition Categories."	Added space between '99- 01' and "Recognition'. Editorial
8	Section D Section 3.2.7, 1 st paragraph, 2 nd sentence	This situation can occur when personnel discover that an event or condition existed which met an EAL, but no emergency was declared, and the event orcondition no longer exists at the time of discovery	This situation can occur when personnel discover that an event or condition existed which met an EAL, but no emergency was declared, and the event or condition no longer exists at the time of discovery	Added space between 'or' and 'condition'. Editorial
9	Section D Section 3.3.1	When making an emergency classification, the Emergency Coordinator/EOF Director must consider all information having a bearing on the proper assessment of an Initiating Condition (IC).	When making an emergency classification, the Emergency Coordinator must consider all information having a bearing on the proper assessment of an Initiating Condition (IC).	Removed 'EOF Director' as he/she no longer has responsibility for classification.
10	Section D Section 3.3.1.3	For ICs and EALs that have a stipulated time duration (e.g., 15 minutes, 30 minutes, etc.), the Emergency Coordinator/EOF Director should not wait until the applicable time has elapsed, but should declare the event as soon as it is determined that the condition has exceeded, or will likely	For ICs and EALs that have a stipulated time duration (e.g., 15 minutes, 30 minutes, etc.), the Emergency Coordinator should not wait until the applicable time has elapsed, but should declare the event as soon as it is determined that the condition has exceeded, or will likely	Removed 'EOF Director' as he/she no longer has responsibility for classification.

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		exceed, the applicable	exceed, the applicable	
		time.	time.	
11	Section D Section 3.3.1.6	The NEI 99-01 EAL scheme provides the Emergency Coordinator/EOF Director with the ability to classify events and conditions based upon judgment using EALs that are consistent with the Emergency Classification Level (ECL) definitions (refer to Category H). The Emergency Coordinator/EOF Director will need to determine if the effects or consequences of the event or condition reasonably meet or exceed a particular ECL definition.	The NEI 99-01 EAL scheme provides the Emergency Coordinator with the ability to classify events and conditions based upon judgment using EALs that are consistent with the Emergency Classification Level (ECL) definitions (refer to Category H). The Emergency Coordinator will need to determine if the effects or consequences of the event or condition reasonably meet or exceed a particular ECL definition.	Removed 'EOF Director' as he/she no longer has responsibility for classification.
12	Section D Section 3.2.3	Although EALs provide specific thresholds, the Emergency Coordinator/EOF Director must remain alert to events or conditions that could lead to meeting or exceeding an EAL within a relatively short period of time (i.e., a change in the ECL is IMMINENT). If, in the judgment of the Emergency Coordinator/EOF Director, meeting an EAL is IMMINENT, the emergency classification should be made as if the EAL has been met.	Although EALs provide specific thresholds, the Emergency Coordinator must remain alert to events or conditions that could lead to meeting or exceeding an EAL within a relatively short period of time (i.e., a change in the ECL is IMMINENT). If, in the judgment of the Emergency Coordinator, meeting an EAL is IMMINENT, the emergency classification should be made as if the EAL has been met.	Removed 'EOF Director' as he/she no longer has responsibility for classification.
13	Section D Section 3.2.6	The provision discussed above addresses only those	The provision discussed above addresses only those	Removed 'EOF Director' as he/she no longer has

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		rapidly evolving situations when an operator is able to take a successful corrective action prior to the Emergency Coordinator/EOF Director completing the review and steps necessary to make the emergency declaration.	rapidly evolving situations when an operator is able to take a successful corrective action prior to the Emergency Coordinator completing the review and steps necessary to make the emergency declaration.	responsibility for classification.
14	Section D Section 5.2 Abbreviations /Acronyms	NA	NA	Removed and added spaces/periods for alignment. Editorial
15	Section D Section 6.0 Table	NA	NA	Centered text in columns. Editorial
16	Section D – 5.1 Definitions, Explosion, 1 st sentence; CA6.1, Definitions, Explosion, 1 st sentence; SA9.1, Definitions, Explosion, 1 st sentence;	Overpressurization	Over pressurization	Added space between 'over' and 'pressurization'. Editorial
17	Section D Attachment 1 EAL Bases: RU1.1, RU1.2, RA1.1, RA1.3, RA1.4, RS1.1, RS1.3, RG1.1, RG1.3, RG2.1, CU1.1, CA1.2, CS1.1, CG1.1, CU2.1, CA2.1, CU3.2, CA3.1, CU4.1, HU4.1, HU4.2, HU4.3, HS6.1, SU1.1, SA1.1, SS1.1, SG1.1, SG1.2, SS2.1, SU3.1, SA3.1, SU5.1, SU8.1; Attachment 2: Barrier: Containment, Category: D. CMT Integrity or Bypass, Degradation Threat: Potential Loss, Threshold: 3	Note 1: The Emergency Coordinator/EOF Director should declare the event promptly upon determining that time limit has been exceeded, or will likely be exceeded.	Note 1: The Emergency Coordinator should declare the event promptly upon determining that time limit has been exceeded, or will likely be exceeded.	Removed 'EOF Director' as he/she no longer has responsibility for classification.

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40	Ocation D Att	FAto discrete	F 4 to 1 to 1 0	0
18	Section D Attachment 1, EAL Bases, CA1.1, 1 st paragraph of Basis,	5.1 in. above hotleg centerline (reounded to 5 in.) NCS level indication is the lowest level to assure adequate net positive suction head and prevent ND pump cavitation and air entrainment for all flow rates (ref. 1).	5.1 in. above hotleg centerline (rounded to 5 in.) NCS level indication is the lowest level to assure adequate net positive suction head and prevent ND pump cavitation and air entrainment for all flow rates (ref. 1).	Corrected spelling of 'rounded'. Editorial
19	Section D Attachment 1, EAL Bases, CA2.1	NA	Definition(s): None	Added text to be consistent with other EALs.
20	Section D Attachment 1, EAL Bases, CG1.1, 14 th paragraph of Basis, last sentence	Sump and/or tank level changes must be evaluated against other potential sources of water flow to ensure they are indicative of leakage from theNCS.	Sump and/or tank level changes must be evaluated against other potential sources of water flow to ensure they are indicative of leakage from the NCS.	Added space between 'the' and 'NCS'. Editorial
21	Section D Attachment 1, EAL Bases, CU3.1, 3 rd paragraph of Basis	This IC addresses an UNPLANNED increase in NCS temperature above the Technical Specification cold shutdown temperature limitand represents a potential degradation of the level of safety of the plant.	This IC addresses an UNPLANNED increase in NCS temperature above the Technical Specification cold shutdown temperature limit and represents a potential degradation of the level of safety of the plant.	Added space between 'limit' and 'and'. Editorial
22	Section D Attachment 1, EAL Bases, SU1.1	Definition(s): None Basis: Basis:	Definition(s): None Basis:	Removed extra 'Basis:' Editorial
23	Section D Attachment 1, EAL Bases, SU5.1	NA	Failure to isolate the leak within 15 minutes, or if known that the leak cannot be isolated within 15 minutes from the start of the leak, requires immediate classification.	Added paragraph per NTM 02187203 based on Operating Experience from Catawba. This will assure classification within 15 minutes of indication that an EAL was or will be exceeded.
24	Section D Attachment 1, EAL Bases, SU6.1	Mode Applicability: 1 1- Power Operations	Mode Applicability: 1- Power Operations	Removed extra '1' Editorial
25	Section D Attachment 1, EAL Bases, SU6.1, 8 th paragraph of Bases	Following the failure on an automatic reactor trip, operators will	Following the failure on an automatic reactor trip, operators will	Added space between 'shut' and 'down' and removed

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26	Section D Attachment	promptly initiate manual actions at the reactor control consoles to shutdown the reactor (e.g., initiate a manual reactor trip).	promptly initiate manual actions at the reactor control consoles to shut down the reactor (e.g., initiate a manual reactor trip). If an initial manual	space between 'trip' and ')'. Editorial
20	1, EAL Bases, SU6.1, 9th paragraph of Bases	reactor trip is unsuccessful, operators will promptly take manual action at another location(s) on the reactor control consoles to shutdown the reactor (e.g., initiate a manual reactor trip using a different switch).	reactor trip is unsuccessful, operators will promptly take manual action at another location(s) on the reactor control consoles to shut down the reactor (e.g., initiate a manual reactor trip using a different switch).	Added space between 'shut' and 'down'. Editorial
27	Section D Attachment 1, EAL Bases, SU6.1, Last paragraph of Bases, 2 nd bullet	and the RPS fails to automatically shutdown the reactor, then this IC and the EALs are applicable, and should be evaluated.	and the RPS fails to automatically shut down the reactor, then this IC and the EALs are applicable, and should be evaluated.	Added space between 'shut' and 'down'. Editorial
28	Section D Attachment 1, EAL Bases, SU6.2, 6 th paragraph of Bases	Following the failure on an automatic reactor trip, operators will promptly initiate manual actions at the reactor control consoles to shutdown the reactor (e.g., initiate a manual reactor trip).	Following the failure on an automatic reactor trip, operators will promptly initiate manual actions at the reactor control consoles to shut down the reactor (e.g., initiate a manual reactor trip).	Added space between 'shut' and 'down'. Editorial
29	Section D Attachment 1, EAL Bases, SU6.2, 6 th paragraph of Bases	If an initial manual reactor trip is unsuccessful, operators will promptly take manual action at another location(s) on the reactor control consoles to shutdown the reactor (e.g., initiate a manual reactor trip using a different switch).	If an initial manual reactor trip is unsuccessful, operators will promptly take manual action at another location(s) on the reactor control consoles to shut down the reactor (e.g., initiate a manual reactor trip using a different switch).	Added space between 'shut' and 'down'. Editorial
30	Section D Attachment 1, EAL Bases, SU6.1, Last paragraph of Bases, 1 st bullet	If the signal causes a plant transient that should have included an automatic reactor	If the signal causes a plant transient that should have included an automatic reactor	Added space between 'shut' and 'down'. Editorial

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31	Section D Attachment	trip and the RTS fails to automatically shutdown the reactor, then this IC and the EALs are applicable, and should be evaluated. This IC addresses a	trip and the RTS fails to automatically shut down the reactor, then this IC and the EALs are applicable, and should be evaluated. This IC addresses a	Added space
	1, EAL Bases, SA6.1, 5th paragraph of Bases	failure of the RPS to initiate or complete an automatic or manual reactor trip that results in a reactor shutdown, and subsequent operator manual actions taken at the reactor control consoles to shutdown the reactor are also unsuccessful.	failure of the RPS to initiate or complete an automatic or manual reactor trip that results in a reactor shutdown, and subsequent operator manual actions taken at the reactor control consoles to shut down the reactor are also unsuccessful.	between 'shut' and 'down'. Editorial
32	Section D Attachment 1, EAL Bases, SA6.1, 6th paragraph of Bases, last sentience	Actions taken at backpanels or other locations within the Control Room, or any location outside the Control Room, are not considered to be "at the reactor control console".	Actions taken at back panels or other locations within the Control Room, or any location outside the Control Room, are not considered to be "at the reactor control console".	Added space between 'back' and 'panels'. Editorial
33	Section D Attachment 1, EAL Bases, SS6.1, 7 th paragraph of Bases	5% rated power is a minimum reading on the power range scale that indicates continued power production. It also approximates the decay heat which the shutdown systems were designed to remove and is indicative of a condition requiring immediate response to prevent subsequent core damage. Below 5%, plant response will be similar to that observed during a normal shutdown. Nuclear instrumentation can be used to determine if	5% rated power is a minimum reading on the power range scale that indicates continued power production. It also approximates the decay heat which the shutdown systems were designed to remove and is indicative of a condition requiring immediate response to prevent subsequent core damage. Below 5%, plant response will be similar to that observed during a normal shutdown. Nuclear instrumentation can be used to determine if	Removed extra spaces between 'designed' and 'to' and 'a' and 'normal'. Editorial

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				1
		reactor power is greater than 5% power (ref. 1, 4).	reactor power is greater than 5% power (ref. 1, 4).	
34	Section D Attachment 1, EAL Bases, SS6.1, 10 th paragraph of Bases	The inclusion of this IC and EAL ensures the timely declaration of a Site Area Emergency in response to prolonged failure to shutdown the reactor.	The inclusion of this IC and EAL ensures the timely declaration of a Site Area Emergency in response to prolonged failure to shut down the reactor.	Added space between 'shut' and 'down'. Editorial
35	Section D Attachment 1 EAL Bases, Category H, 7. Emergency Coordinator Judgment	The EALs of this category provide the Emergency Coordinator/EOF Director the latitude to classify emergency conditions consistent with the established classification criteria based upon Emergency Coordinator/EOF Director judgment.	The EALs of this category provide the Emergency Coordinator the latitude to classify emergency conditions consistent with the established classification criteria based upon Emergency Coordinator judgment.	Removed 'EOF Director' as he/she no longer has responsibility for classification.
36	Section D Attachment 1 EAL Bases, HU1.1, 5 th paragraph of Basis	This threshold references the Security Shift Supervison because these are the individuals trained to confirm that a security event is occurring or has occurred.	This threshold references the Security Shift Supervision because these are the individuals trained to confirm that a security event is occurring or has occurred.	Corrected spelling of 'Supervision'. Editorial
37	Section D Attachment 1 EAL Bases, Category H, HU7.1 Initiating Condition	Other conditions exist that in the judgment of the Emergency Coordinator/EOF Director warrant declaration of an Alert	Other conditions existing that in the judgment of the Emergency Coordinator warrant declaration of a UE	Removed 'EOF Director' as he/she no longer has responsibility for classification
38	Section D Attachment 1 EAL Bases, Category H, HU7.1 EAL	Other conditions exist which in the judgment of the Emergency Coordinator/EOF Director indicate that events are in progress or have occurred which indicate a potential degradation of the level of safety of the plant or indicate a security threat to facility	Other conditions exist which in the judgment of the Emergency Coordinator indicate that events are in progress or have occurred which indicate a potential degradation of the level of safety of the plant or indicate a security threat to facility protection has been	Removed 'EOF Director' as he/she no longer has responsibility for classification

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		protection has been initiated. No releases of radioactive material requiring offsite response or monitoring are expected unless further degradation of SAFETY SYSTEMS occurs.	initiated. No releases of radioactive material requiring offsite response or monitoring are expected unless further degradation of SAFETY SYSTEMS occurs.	
39	Section D Attachment 1 EAL Bases, Category H, HU7.1 Basis	The Emergency Coordinator/EOF Director are the designated onsite individuals having the responsibility and authority for implementing the MNS Emergency Response Plan. The Operations Shift Manager (SM) initially acts in the capacity of the Emergency Coordinator/EOF Director and takes actions as outlined in the Emergency Plan implementing procedures. If required by the emergency classification or if deemed appropriate by the Emergency Coordinator/EOF Director, emergency response personnel are notified and instructed to report to their emergency response locations. In this manner, the individual usually in charge of activities in the Control Room is responsible for initiating the necessary emergency response, but Plant Management is expected to manage the emergency	The Emergency Coordinators are the designated onsite individuals having the responsibility and authority for implementing the MNS Emergency Response Plan. The Operations Shift Manager (SM) initially acts in the capacity of the Emergency Coordinator and takes actions as outlined in the Emergency Plan implementing procedures. If required by the emergency classification or if deemed appropriate by the Emergency Coordinator, emergency response personnel are notified and instructed to report to their emergency response locations. In this manner, the individual usually in charge of activities in the Control Room is responsible for initiating the necessary emergency response, but Plant Management is expected to manage the emergency response as soon as available to do so in	Changed 'The Emergency Coordinator/EOF Director are the designated' to 'The Emergency Coordinators are the designated'. Pluralized 'Emergency Coordinator' for grammatical correctness. Removed 'EOF Director' as he/she no longer has responsibility for classification.
		response as soon as	anticipation of the	

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		available to do so in	possible wide-ranging	
		anticipation of the	responsibilities	
		possible wide-ranging	associated with	
		responsibilities	managing a major	
		associated with	emergency (ref. 1).	
		managing a major	cinergency (ren. 1).	
			This IC addresses	
		emergency (ref. 1).		
		This IO add a second	unanticipated	
		This IC addresses	conditions not	
		unanticipated	addressed explicitly	
		conditions not	elsewhere but that	
		addressed explicitly	warrant declaration of	
		elsewhere but that	an emergency because	
		warrant declaration of	conditions exist which	
		an emergency because	are believed by the	
		conditions exist which	Emergency Coordinator	
		are believed by the	to fall under the	
		Emergency	emergency	
		Coordinator/EOF	classification level	
		Director to fall under	description for an	
		the emergency	Unusual Event.	
		classification level	Onusual Event.	
		description for an		
4.0		Unusual Event.	6.1.	1/505
40	Section D Attachment 1	Other conditions exist	Other conditions exist	Removed 'EOF
	EAL Bases, Category	that in the judgment of	that in the judgment of	Director' as he/she
	H, HA7.1 Initiating	the Emergency	the Emergency	no longer has
	Condition	Coordinator/EOF	Coordinator warrant	responsibility for
		Director warrant	declaration of an Alert	classification.
		declaration of an Alert		
41	Section D Attachment 1	Other conditions exist	Other conditions exist	Removed 'EOF
	EAL Bases, Category	which, in the judgment	which, in the judgment	Director' as he/she
	H, HA7.1 EAL	of the Emergency	of the Emergency	no longer has
		Coordinator/EOF	Coordinator,	responsibility for
		Director,	indicate that events are	classification.
		indicate that events are	in progress or have	
		in progress or have	occurred which involve	
		occurred which involve	an actual or potential	
		an actual or potential	substantial degradation	
		substantial degradation	of the level of safety of	
		of the level of safety of	the plant or a security event that involves	
		the plant or a security		
		event that involves	probable life	
		probable life	threatening risk to site	
		threatening risk to site	personnel or damage to	
		personnel or damage to	site equipment because	
		site equipment because	of	
		of	HOSTILE ACTION.	
		HOSTILE ACTION. Any	Any releases are	
		releases are expected	expected to be limited	

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		to be limited to small	to small fractions of the	
		fractions of the EPA	EPA	
		Protective Action	Protective Action	
		Guideline exposure	Guideline exposure	
		levels.	levels.	
42	Section D Attachment 1	The Emergency	The Emergency	Changed 'The
42		Coordinator/EOF	Coordinators are the	_
	EAL Bases, Category	Director are the		Emergency Coordinator/EOF
	H, HA7.1 Basis		designated onsite individuals having the	Director are the
		designated onsite		
		individuals having the	responsibility and authority for	designated' to
		responsibility and		'The Emergency Coordinators are the
		authority for	implementing the MNS	-
		implementing the MNS	Emergency Response	designated'.
		Emergency Response	Plan. The Operations	Pluralized
		Plan. The Operations	Shift Manager (SM)	'Emergency
		Shift Manager (SM)	initially acts in the	Coordinator' for
		initially acts in the capacity of the	capacity of the Emergency Coordinator	grammatical correctness.
		Emergency Coordinator	and takes actions as	Removed 'EOF
		and takes actions as	outlined in the	Director' as he/she
		outlined in the	Emergency Plan	no longer has
			implementing	responsibility for
		Emergency Plan implementing	procedures. If required	classification.
		procedures. If required	by the emergency	Classification.
		by the emergency	classification or if	
		classification or if	deemed appropriate by	
		deemed appropriate by	the Emergency	
		the Emergency	Coordinator,	
		Coordinator,	emergency response	
		emergency response	personnel are notified	
		personnel are notified	and instructed to report	
		and instructed to report	to their emergency	
		to their emergency	response locations. In	
		response locations. In	this manner, the	
		this manner, the	individual usually in	
		individual usually in	charge of activities in	
		charge of activities in	the Control Room is	
		the Control Room is	responsible for initiating	
		responsible for initiating	the necessary	
		the necessary	emergency response,	
		emergency response,	but Plant Management	
		but Plant Management	is expected to manage	
		is expected to manage	the emergency	
		the emergency	response as soon as	
		response as soon as	available to do so in	
		available to do so in	anticipation of the	
		anticipation of the	possible wide-ranging	
		possible wide-ranging	responsibilities	
		responsibilities	associated with	
		associated with	managing a major	
		accorated with	managing a major	

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		managing a major	emergency (ref.1).	
		emergency (ref.1).	This IC addresses	
		This IC addresses	unanticipated	
		unanticipated	conditions not	
		conditions not	addressed explicitly	
		addressed explicitly	elsewhere but that	
		elsewhere but that	warrant declaration of	
		warrant declaration of	an emergency because	
		an emergency because	conditions exist which	
		conditions exist which	are believed by the	
		are believed by the	Emergency Coordinator	
		Emergency	to fall under the	
		Coordinator/EOF	emergency	
		Director to fall under	classification level	
		the emergency	description for an Alert.	
		classification level	1	
		description for an Alert.		
43	Section D Attachment 1	Other conditions	Other conditions	Removed 'EOF
	EAL Bases, Category	existing that in the	existing that in the	Director' as he/she
	H, HS7.1 Initiating	judgment of the	judgment of the	no longer has
	Condition	Emergency	Emergency Coordinator	responsibility for
		Coordinator/EOF	warrant declaration of a	classification
		Director warrant	Site Area Emergency	
		declaration of a Site		
		Area Emergency		
44	Section D Attachment 1	Other conditions exist	Other conditions exist	Removed 'EOF
	EAL Bases, Category	which in the judgment	which in the judgment	Director' as he/she
	H, HS7.1 EAL	of the Emergency	of the Emergency	no longer has
		Coordinator/EOF Director	Coordinator	responsibility for classification
		indicate that events are	indicate that events are	Classification
		in progress or have	in progress or have occurred which involve	
		occurred which involve	actual or likely major	
		actual or likely major	failures of plant	
		failures of plant	functions needed for	
		functions needed for	protection of the public	
		protection of the public	or HOSTILE ACTION	
		or HOSTILE ACTION	that	
		that	results in intentional	
		results in intentional	damage or malicious	
		damage or malicious	acts, (1) toward site	
		acts, (1) toward site	personnel or equipment	
		personnel or equipment	that	
		that	could lead to the likely	
		could lead to the likely	failure of or, (2) that	
		failure of or, (2) that	prevent effective	
		prevent effective	access to equipment	
		access to equipment	needed	
		needed	for the protection of the	

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45	Section D Attachment 1	for the protection of the public. Any releases are not expected to result in exposure levels which exceed EPA Protective Action Guideline exposure levels beyond the SITE BOUNDARY. The Emergency Coordinator/EOF	public. Any releases are not expected to result in exposure levels which exceed EPA Protective Action Guideline exposure levels beyond the SITE BOUNDARY. The Emergency Coordinators are the	Changed 'The
	EAL Bases, Category H, HS7.1 Basis	Coordinator/EOF Director are the designated onsite individuals having the responsibility and authority for implementing the MNS Emergency Response Plan. The Operations Shift Manager (SM) initially acts in the capacity of the Emergency Coordinator and takes actions as outlined in the Emergency Plan implementing procedures. If required by the emergency classification or if deemed appropriate by the Emergency Coordinator, emergency response personnel are notified and instructed to report to their emergency response locations. In this manner, the individual usually in charge of activities in the Control Room is responsible for initiating the necessary emergency response, but Plant Management is expected to manage the emergency response as soon as	Coordinators are the designated onsite individuals having the responsibility and authority for implementing the MNS Emergency Response Plan. The Operations Shift Manager (SM) initially acts in the capacity of the Emergency Coordinator and takes actions as outlined in the Emergency Plan implementing procedures. If required by the emergency classification or if deemed appropriate by the Emergency Coordinator, emergency response personnel are notified and instructed to report to their emergency response locations. In this manner, the individual usually in charge of activities in the Control Room is responsible for initiating the necessary emergency response, but Plant Management is expected to manage the emergency response as soon as available to do so in	Emergency Coordinator/EOF Director are the designated' to 'The Emergency Coordinators are the designated'. Pluralized 'Emergency Coordinator' for grammatical correctness. Removed 'EOF Director' as he/she no longer has responsibility for classification.

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available to do so in anticipation of the	
anticipation of the possible wide-ranging	
possible wide-ranging responsibilities	
responsibilities associated with	
associated with managing a major	
managing a major emergency (ref. 1).	
emergency (ref. 1).	
This IC addresses	
This IC addresses unanticipated	
unanticipated conditions not	
conditions not addressed explicitly	
addressed explicitly elsewhere but that	
elsewhere but that warrant declaration of	
an emergency because conditions exist which	
conditions exist which are believed by the	
are believed by the Emergency Coordinator	
Emergency to fall under the	
Coordinator/EOF emergency	
Director to fall under classification level	
the emergency description for a Site	
classification level Area Emergency.	
description for a Site	
Area Emergency.	
	moved 'EOF
	ector' as he/she
	longer has
	ponsibility for
	ssification
declaration of a General Emergency	
General Emergency	
	moved 'EOF
	ector' as he/she
	longer has
	ponsibility for
	ssification. Added
indicate that events are in progress or have periods	iod at end of EAL
	ditorial.
occurred which involve actual or IMMINENT	
actual or IMMINENT substantial core	
substantial core degradation or melting	
degradation or melting with potential for loss of	
with potential for loss of containment integrity or	
containment integrity or HOSTILE ACTION that	
HOSTILE ACTION that results in an actual loss	
results in an actual loss of physical control of	
of physical control of the facility. Releases	
the facility. Releases can be reasonably	
can be reasonably expected to exceed	
expected to exceed	

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		EPA Protective Action	Guideline exposure	
		Guideline exposure levels	levels offsite for more than the	
		offsite for more than the	immediate site area.	
		immediate site area	illillediate site area.	
48	Section D Attachment 1	The Emergency	The Emergency	Removed 'EOF
.0	EAL Bases, Category	Coordinator/EOF	Coordinator are the	Director' as he/she
	H, HG7.1 Basis	Director are the	designated onsite	no longer has
	, -	designated onsite	individuals having the	responsibility for
		individuals having the	responsibility and	classification
		responsibility and	authority for	
		authority for	implementing the MNS	
		implementing the MNS	Emergency Response	
		Emergency Response	Plan. The Operations	
		Plan. The Operations	Shift Manager(SM)	
		Shift Manager(SM)	initially acts in the	
		initially acts in the	capacity of the	
		capacity of the	Emergency Coordinator and takes actions as	
		Emergency Coordinator and takes actions as	outlined in the	
		outlined in the	Emergency Plan	
		Emergency Plan	implementing	
		implementing	procedures. If required	
		procedures. If required	by the emergency	
		by the emergency	classification or if	
		classification or if	deemed appropriate by	
		deemed appropriate by	the Emergency	
		the Emergency	Coordinator,	
		Coordinator,	emergency response	
		emergency response	personnel are notified	
		personnel are notified	and instructed to report	
		and instructed to report to their emergency	to their emergency response locations. In	
		response locations. In	this manner, the	
		this manner, the	individual usually in	
		individual usually in	charge of activities in	
		charge of activities in	the Control Room is	
		the Control Room is	responsible for initiating	
		responsible for initiating	the necessary	
		the necessary	emergency response,	
		emergency response,	but Plant Management	
		but Plant Management	is expected to manage	
		is expected to manage	the emergency	
		the emergency	response as soon as	
		response as soon as	available to do so in	
		available to do so in anticipation of the	anticipation of the possible wide-ranging	
		possible wide-ranging	responsibilities	
		responsibilities	associated with	
		associated with	managing a major	

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				-
		managing a major emergency (ref. 1).	emergency (ref. 1).	
		cinergency (ren. 1).	Releases can	
		Releases can	reasonably be	
		reasonably be expected	expected to exceed	
		to exceed EPA PAG	EPA PAG plume	
		plume exposure levels	exposure levels outside	
		outside the Site	the Site Boundary.	
		Boundary.	the one boundary.	
		Bourdary.	This IC addresses	
		This IC addresses	unanticipated	
		unanticipated	conditions not	
		conditions not	addressed explicitly	
		addressed explicitly	elsewhere but that	
		elsewhere but that	warrant declaration of	
		warrant declaration of	an emergency because	
		an emergency because	conditions exist which	
		conditions exist which	are believed by the	
		are believed by the	Emergency Coordinator	
		Emergency	to fall under the	
		Coordinator/EOF	emergency	
		Director to fall under	classification level	
		the emergency	description for a	
		classification level	General Emergency.	
		description for a	Ceneral Emergency.	
		General Emergency.		
49	Section D Attachment 1	Alternatively, if both the	Alternatively, if both the	Removed 'EOF
	EAL Bases, Category	Fuel Clad and NCS	Fuel Clad and NCS	Director' as he/she
	F– Fission Product	fission product barriers	fission product barriers	no longer has
	Barrier Degradation,	were potentially lost,	were potentially lost,	responsibility for
	last paragraph/bullet	the Emergency	the Emergency	classification
		Coordinator/EOF	Coordinator would have	
		Director would have	more assurance that	
		more assurance that	there was no	
		there was no immediate	immediate need to	
		need to escalate to a	escalate to a General	
		General Emergency.	Emergency.	
50	Section D Attachment 1	Alternatively, if both	Alternatively, if both	Removed 'EOF
	EAL Bases, FS1.1	Fuel Clad and NCS	Fuel Clad and NCS	Director' as he/she
	Basis	potential loss	potential loss	no longer has
		thresholds existed, the	thresholds existed, the	responsibility for
		Emergency	Emergency Coordinator	classification
		Coordinator/EOF	would have greater	
		Director would have	assurance that	
		greater assurance that	escalation to a General	
		escalation to a General	Emergency is less	
		Emergency is less	imminent.	
54	Ocation D Att	imminent.	The Object (CCC)	D.1.4.160. "
51	Section D Attachment	The Operations Shift	The Shift Manager(SM)	Deleted 'Operations'

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	1, EAL Bases, EAL: HU7.1, HA7.1, HS7.1, HG7.1 – Basis second sentence	Manager (SM) initially acts in the capacity of the Emergency Coordinator and takes actions as outlined in the Emergency Plan implementing procedures	initially acts in the capacity of the Emergency Coordinator and takes actions as outlined in the Emergency Plan implementing procedures	before Shift Manager to reflect correct position title. Editorial
52	Section D Attachment 1, Attachment 2, Fission Product Barrier Loss/Potential Loss Matrix and Bases: Barrier: Fuel Clad, Category: E. Emergency Coordinator Judgment, Degradation Threat: Loss, Threshold: 1; Barrier: Fuel Clad, Category: E. Emergency Coordinator Judgment, Degradation Threat: Potential Loss, Threshold: 1; Barrier: Reactor Coolant System, Category: E. Emergency Coordinator Judgment, Degradation Threat: Loss, Threshold: 1; Barrier: Reactor Coolant System, Category: E. Emergency Coordinator Judgment, Degradation Threat: Potential Loss, Threshold: 1; Barrier: Containment, Category: F. Emergency Coordinator Judgment, Degradation Threat: Potential Loss, Threshold: 1; Barrier: Containment, Category: F. Emergency Coordinator Judgment, Degradation Threat: Loss, Threshold: 1;	Emergency Coordinator/EOF Director	Emergency Coordinator	Removed 'EOF Director' as he/she no longer has responsibility for classification

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	Barrier: Containment, Category: F. Emergency Coordinator Judgment, Degradation Threat: Potential Loss, Threshold: 1;			
53	Section D Attachment 2 Fission Product Barrier Loss/Potential Loss Matrix and Bases Table	Emergency Coordinator/EOF Director	Emergency Coordinator	Removed 'EOF Director' as he/she no longer has responsibility for classification
54	Section D Attachment 2 Fission Product Barrier Loss/Potential Loss Matrix and Bases Table	NA	NA	Added bottom border to table. Editorial
55	Section D Attachment 2 Fission Product Barrier Loss/Potential Loss Matrix and Bases, Barrier: Fuel Clad, Category: E. Emergency Coordinator Judgment, Degradation Threat: Loss, Basis, 3 rd bullet	Dominant accident sequences lead to degradation of all fission product barriers and likely entry to the EOPs. The Emergency Coordinator/EOF Director should be mindful of the Loss of AC power (Station Blackout) and ATWS EALs to assure timely emergency classification declarations.	Dominant accident sequences lead to degradation of all fission product barriers and likely entry to the EOPs. The Emergency Coordinator should be mindful of the Loss of AC power (Station Blackout) and ATWS EALs to assure timely emergency classification declarations.	Removed 'EOF Director' as he/she no longer has responsibility for classification
56	Section D Attachment 2 Fission Product Barrier Loss/Potential Loss Matrix and Bases Table, Barrier: Fuel Clad, Category: B. Inadequate Heat Removal, 1st paragraph of Basis	Critical Safety Function Status Tree (CSFST) Core Cooling-ORANGE path indicates indicates subcooling has been lost and that some fuel clad damage may potentially occur.	Critical Safety Function Status Tree (CSFST) Core Cooling-ORANGE path indicates subcooling has been lost and that some fuel clad damage may potentially occur.	Removed second 'indicates'. Editorial
57	Section D Throughout	NA	NA	Added/removed spaces and carriage returns and corrected capitalization and indentions. Editorial
58	Section D	Footer - Rev. 18-1 January, 2018	Footer - Rev. 19-1 July, 2019	Editorial

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Part II. Determination of Validation Method by Sit	e EP	Mana	ager:				
In-Plant Walkdown			Tableto	р			
Training	1		Other (Sp	ecify) <u>Read and Review</u>		
Simulator			NA				
EP Manager Name (Print):		EP I	Manage	er S	Signature: See CAS	Date: S	See
David Thompson						CAS	
Part III. Validation. (Answers marked No require r	esolu	tion)					
Validation Question	Yes	N	o NA		Resolution and Commen	ts	
Readouts, alarms, indications. etc., available in the Control Room?] -				
Monitor, gauge, etc., designations are correct?] •				
Are correct units of measure displayed on the monitor, gauge, etc.?] •				
All values are within instrumentation display range?] -				
Is instrument display finite enough to distinguish between values?]				
No miscellaneous issues were identified during walkdown correct?]				
Part IV. Verification (Answers marked No require	resol	ution)				
Validation Question	Yes	N	o NA		Resolution and Commen	ts	
Is the IC/EAL change easy to use and does it flow well? Is sequencing logical and correct? Is it written to appropriate level of detail and unambiguous?			1 0				
Is the IC/EAL Matrix legible and easy to use?							
Are correct units of measure displayed on the] =				

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Part IV. Verification (cont.) (No answers require resolution))				
Validation Question	Yes	No	NA	Resolution and Comments
Instrumentation; Plant Computer System (PCS); and/or Plant Process Computer System (PPCS) points specified?				
References specified in EAL Technical Basis current and updated and source documents for inputs have been identified and verified to be appropriate for use?				
Does the change avoid human performance challenges, latent weaknesses, and human performance traps? No vague or missing critical detail(s). Decisions are not over-reliant on knowledge for successful performance	•			
Modifications, Emergency Plan, EAL Technical Basis, reference manual and procedure revisions, setpoint changes, software changes, training, etc. are appropriately scheduled to correspond to the EAL revision?	•			
Are alarm setpoints equal to or below EAL thresholds?				
Do radiation monitor setpoints account for background?				
Part V. Comments: If an EAL change requires a License Amendmen specific EAL versus NEI generic guidance in this Not required.			en doc	ument the gap analysis review of the site

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Part VI. Completion Review and Approval Signatures			
Validation and Verification (Print Names) [Note1]: Scott Fortin (Fleet Ops CFAM Organization and previous MNS Senior License Holder)	Validation and Verification Signatures: See CAS	Date: See CAS	
Site EP Manager Review (Print Name): David Thompson	EP Manager Signature: See CAS	Date: See CAS	
Senior Operations License Holder (Print Name): Ryan Severns	Senior Operations License Holder Signature: See CAS	Date: See CAS	
Qualified Emergency Coordinator (Print Name): Pete Schuerger	Qualified Emergency Coordinator Signature: See CAS	Date: See CAS	
Engineering Review (Print Name) [Note2]: Not required per David Thompson as no EAL initiating conditions changing	Engineering Signature: N/A	Date: N/A	
PSA Review (Print Name) [Note3]: Not required per David Thompson as no EAL initiating conditions changing	PSA Signature: N/A	Date: N/A	
Radiation Protection Review [Note 4]: Not required per David Thompson as no EAL initiating conditions changing	Radiation Protection Signature: N/A	Date: N/A	
EP CFAM Review (Print Name): David Thompson	EP CFAM Signature: See CAS	Date: See CAS	

Notes:

- 1. Validation and Verification can be performed by the same individual but must be:
 - · Qualified in the subject matter
 - Separate from the author of change
 - A cross-discipline reviewer
- 2. System specific Engineering Review is required for EAL changes related to process equipment such as radiological instruments and environmental monitoring.
- 3. PSA review is required for EAL changes to ensure any potential or actual impact to PSA calculations or assumptions are adequately addressed (not applicable to CR3).
- 4. Radiation Protection is required for radiological EAL changes.