

Arkansas Nuclear One

After Action Report/ Improvement Plan

Exercise Date - August 17, 2016

Radiological Emergency Preparedness (REP) Program



Published October 13, 2016

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Arkansas Nuclear One

After Action Report/Improvement Plan

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EXECUTIVE SUMMARY

On August 17, 2016, a biennial Radiological Emergency Preparedness (REP) exercise was conducted in the plume exposure pathway emergency planning zone (EPZ) around Arkansas Nuclear One (ANO) located near Russellville, Pope County, Arkansas. The U.S. Department of Homeland Security/Federal Emergency Management Agency (DHS/FEMA) Region VI evaluated the exercise. The purpose was to assess the level of preparedness of state and local responders to react to a simulated radiological emergency at ANO. This exercise was held in accordance with DHS/FEMA policies and guidance concerning the implementation of state and local radiological emergency preparedness plans and procedures.

The previous exercise at this site was a Hostile Action Based Exercise conducted on September 17, 2014. The qualifying emergency preparedness exercise was conducted on October 1, 1980. There have been twenty-four evaluated exercises, including the exercise on August 17, 2016, plus numerous drills conducted since 1980.

DHS/FEMA Region VI wishes to acknowledge the efforts of the many individuals in the State of Arkansas, Pope, Yell, Logan, Johnson, and Conway Counties, National Oceanic and Atmospheric Administration (NOAA) Forecast Office, KXRJ Radio Station, and surrounding jurisdictions who participated in this exercise. Protecting the public health and safety is the fulltime job of some of the exercise participants and an additional assigned responsibility for others. Still they have willingly sought this responsibility by volunteering to provide vital emergency services to their communities. Cooperation and teamwork of all the participants was evident during this exercise.

This report contains the final written evaluation of the biennial exercise. The state and local organizations, except where noted in this report, demonstrated knowledge of their emergency response plans and procedures and adequately implemented them. There were no Level 1 Finding (formally Deficiency) or Level 2 (formally Area Requiring Corrective Action) Finding identified, and there was one Plan Issue identified during the exercise.

SECTION 1: EXERCISE OVERVIEW

1.1 Exercise Details

Exercise Name

Arkansas Nuclear One

Type of Exercise

Plume

Exercise Date

August 17, 2016

Program

Department of Homeland Security/FEMA Radiological Emergency Preparedness

Program

Scenario Type

Radiological Emergency

1.2 Exercise Planning Team Leadership

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1.3 Participating Organizations

Agencies and organizations of the following jurisdictions participated in the ANO exercise:

Risk Jurisdictions

Arkansas Department of Emergency Management

Arkansas Department of Health Emergency Communications Center

City of Russellville and the first and the f

Dardanelle Police Department

Johnson County Clerk's Office

Johnson County Office of Emergency Management

Johnson County Arkansas Housing Authority

Johnson County Sheriff's Office

Logan County Emergency Medical Services

Logan County Office of Emergency Management

Logan County Sheriff's Office

Nuclear Planning & Response Program

Pope County Emergency Medical Services

Pope County Health Department

Pope County Office of Emergency Management

Pope County Sheriff's Office

Russellville Fire Department

Russellville Police Department

Yell County Emergency Medical Services

Yell County Fire Control

Yell County Office of Emergency Management

Yell County Sheriff's Office

Support Jurisdictions

City of Paris Police Department

Clarksville Police Department

Danville Police Department

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Private Organizations
                            American Red Cross
                          Arkansas Nuclear One Nuclear Power Plant of the Arkansas Nuclear One Nuclear Power Plant
                          KXRJ ENS Radio Station
                            Radio Amateur Civil Emergency Services
                                                                                                                                                                                                                                                                                                                                                    With the manager of the
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 Federal Jurisdictions
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SECTION 2: EXERCISE DESIGN SUMMARY

2.1 Exercise Purpose and Design and Land the state of the

The DHS/FEMA Region VI Office evaluated the exercise on August 17, 2016 to assess the capabilities of local emergency preparedness organizations in implementing their Radiological Emergency Response Plans and Procedures to protect the public health and safety during a radiological emergency involving Arkansas Nuclear One (ANO). The purpose of this report is to represent the results and findings on the performance of the offsite response organizations during a simulated radiological emergency.

2.2 Exercise Objectives, Capabilities and Activities

Exercise objectives and identified Capabilities/REP Criteria selected to be exercised are discussed in the Exercise Plan (EXPLAN), Appendix E.

2.3 Scenario Summary A Proportion of the Paradia Self-attraction of the proportion of the Paradia Self-attraction of the Pa

The exercise scenario was developed to evaluate the response of exercise participants to an incident requiring evacuation of the public from the 10-mile Emergency Planning Zone surrounding Arkansas Nuclear One (ANO). The exercise scenario provided for the evaluation of the Arkansas Department of Emergency Management (ADEM), Arkansas Department of Health (ADH), Johnson, Logan, Pope, and Yell Counties, and Local Emergency Services to manage emergency operations, provide and implement protective action decisions, provide field measurement and analysis, and alert and notify the public.

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SECTION 3: ANALYSIS OF CAPABILITIES

3.1 Exercise Evaluation and Results and the second and the second

Contained in this section are the results and findings of the evaluation of all jurisdictions and functional entities, which participated in the Arkansas Nuclear One (ANO) exercise to test the off-site emergency response capabilities of State and local governments in the 10-mile Emergency Planning Zone (EPZ) surrounding ANO.

Each jurisdiction and functional entity was evaluated on the basis of its demonstration of criteria delineated in the exercise evaluation areas as outlined in the REP Program Manual, dated January 2016. Detailed information on the exercise evaluation area criteria and the extent of play agreement used in this exercise are found in Appendix E of this report.

3.2 Summary Results of Exercise Evaluation

The matrix presented in Table 3.1, on the following page(s), presents the status of all exercise evaluation area criteria from the REP Program Manual that were scheduled for demonstration during this exercise by all participating jurisdictions and functional entities. Exercise evaluation area criteria are listed by number and the demonstration status of those evaluation area criteria is indicated by the use of the following letters or numbers:

TEMMU.

- M Met (No Findings assessed and no unresolved ARCAs from prior exercises)
- 1 Level 1 Finding (formerly Deficiency) Assessed
- 2 Level 2 Finding (formerly Area Requiring Corrective Action) Assessed or previous unresolved Areas Requiring Corrective Action
- P Plan Issue
- N Not Demonstrated

Table 3.1 - Summary of Exercise Evaluation (2 pages)

DATE: 2016-08-17 SITE: Arkansas Nuclear One, AR M: Met, 1: Level 1 Finding, 2: Level 2 Finding, P: Plan Issue, N: Not Demonstrated		State EOC	ADH ECC	ADH/SEOF	AR FRMT 1	AR FRMT 2	ADH ENC	Alt. JIC	Johnson County	Logan County	Pope County
Emergency Operations Management											
Mobilization	1a1	M	M	M	7°.	1		M	M	M	M
Facilities	161	M		M	D DY		A.	M	M	M	M
Direction and Control	1c1	M		M			M		M	M	M
Communications Equipment	1d1	M	M	M	M	M		M	M	M	M
Equipment and Supplies	1e1	M	M	M	M	M	1	M	M	M	M
Protective Action Decision Making											
EW Exp. Control Decisions	2a1		7770	M		- 1	10	4	M	M	M
PARs	2b1		4 19	M		i i		138		i.	1
PADs	2b2		_00						M	M	M
PADs for Disabled/Functional Needs	2c1							-	M	M	M
Ingestion PADs	2d1	. 1	1			1	11/1	1	4		3
RRR Decisions	2e1						10		r 10	4	
Protective Action Implementation											
EW Exp. Control Implementation	3a1			M	M	M	,	1	M	M	M
KI Public/Institutionalized	3b1	1	M	1	-91	170	TV.	W.	M	M	M
PAD Imp. Disabled/Functional Needs	3c1	13.18	1	177	14	1	li ii	1.	M	M	M
PAD Imp. Schools	3c2		1		AR	157	1	1		1	1111
TACP Establishment	3d1			Tra			1	2	M	M	M
Impediments to Evacuation	3d2	I.A.					17.	1	M	M	M
Implementation of Ingestion PADs	3e1					14 T	197		r du		
Ingestion Strategies and Information	3e2			1. 1	5		10	1.70	2-2	9.]	799
Imp. of RRR Decisions	3f1		-	1		12	14	B [8		4	1
Field Measurement and Analysis									63		
RESERVED	4a1		111	(a)	K.V	37,8		10.1	.7	1. 2	
Field Team Management	4a2	77 .0		M				11/1	3/9	1.1	
Field Team Operations	4a3				M	M	123	1		1.32	1
Field Team Sampling	4b1		2017		197	-	913	1.7	1		
Laboratory Operations	4c1			P.F.				BL	JE.	1.10	816
Emergency Notification and Public Info									10 (4)		
Initial Alert & Notification	5a1	14.		185	120	2	M	1.	1-11	11	
Backup Alert & Notification	5a3			1	-	: "		1.	14	1	107
Exception Area Alerting	5a4	9				100	1	7	18"	le si	1
Subsequent Public Information	5b1				2327	4.	M	M	1, 1	1	1
Support Operations/Facilities											
Reception Center Operations	6a1	-		1	110	1	2	7		- 9	
EW Monitoring & Decon	6b1		1	7 .	(e, Y		1 5	1		21	
Congregate Care	6c1	7.1			-		-	1.			
Contaminated Injured Transport & Care	6d1										

Table 3.1 - Summary of Exercise Evaluation (Continued. page 2/2)

DATE: 2016-08-17 SITE: Arkansas Nuclear One, AR	E. C.	ly.		.R			
M: Met, 1: Level 1 Finding, 2: Level 2 Finding, P: Plan Issue, N: Not Demonstrated	in t	Yell County	KXRJ ENS	NOAA NLR			17
Emergency Operations Management							
Mobilization	lal	M	. 101 6			711	
Facilities	1b1	M			90 0	1	
Direction and Control	1c1	M	1			E.W.	
Communications Equipment	1d1	M	- 12.7			1. 1	
Equipment and Supplies	1el	M				er e	
Protective Action Decision Making				A COMP			
EW Exp. Control Decisions	2a1	M	1				13
PARs	2b1				7	10	19.50
PADs	2b2	M	-	107	1	7	13
PADs for Disabled/Functional Needs	2c1	M	-5.5				
Ingestion PADs	2d1	- 4.4				e 1	
RRR Decisions	2e1					7	
Protective Action Implementation							
EW Exp. Control Implementation	3a1	P	-		-		
KI Public/Institutionalized	3b1.	M			1 3		1
PAD Imp. Disabled/Functional Needs	3c1	M		9	12		
PAD Imp. Schools	3c2		-	1.0	- 0		
TACP Establishment	3d1	M			-	-	-
Impediments to Evacuation	3d2	M	7	18 11		-	1
Implementation of Ingestion PADs	3e1	77.5		V. S.	11.		
Ingestion Strategies and Information	3e2			2.12			12
Imp. of RRR Decisions	3f1	71	17.0		1		
Field Measurement and Analysis							
RESERVED	4a1			100	17.		
Field Team Management	4a2			-			210
Field Team Operations	4a3	01.000	10000 1-1			- 31	
Field Team Sampling	4b1		lue to	-	W		
Laboratory Operations	4c1	1,20		-		3. 3	-3
Emergency Notification and Public Info	101						
Initial Alert & Notification	5a1	0.0000000000000000000000000000000000000	M	M			
Backup Alert & Notification	5a3	1					
Exception Area Alerting	5a4	3	-	-			
Subsequent Public Information	5b1	100	-	7			1
Support Operations/Facilities							
Reception Center Operations	6a1		1 77	1	75		
EW Monitoring & Decontamination	6b1	M	po E		-12		
Congregate Care	6c1			-	V		
Contaminated Injured Transport & Care	6d1	11	Crot	100	1	100	4.

3.3 Criteria Evaluation Summaries

3.3.1 Arkansas Jurisdictions

3.3.1.1 Arkansas State Emergency Operations Center

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.b.1, 1.c.1, 1.d.1, 1.e.1.
- b. LEVEL 2 FINDING: None
- c. LEVEL 1 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

3.3.1.2 Arkansas Department of Health, Little Rock Emergency Communications Center

DEFENDED TO SEE THAT

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.d.1, 1.e.1.
- b. LEVEL 2 FINDING: None
- c. LEVEL 1 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

3.3.1.3 Arkansas Department of Health and Emergency News Center at the State Emergency Operations Facility

- a. MET: 1.a.1, 1.b.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.1, 3.a.1, 4.a.2, 5.a.1, 5.b.1
- b. LEVEL 2 FINDING: None
- c. LEVEL 1 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None

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- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

3.3.1.4 Arkansas Field Radiological Monitoring Team One

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.d.1, 1.e.1, 3.a.1, 4.a.3.
- b. LEVEL 2 FINDING: None
- c. LEVEL 1 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED None
- g. PRIOR ISSUES UNRESOLVED: None

3.3.1.5 Arkansas Field Radiological Monitoring Team Two

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.d.1, 1.e.1, 3.a.1, 4.a.3.
- b. Level 2 Finding: None
- c. Level 1 Finding: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

3.3.1.6 Alternate Joint Information Center

- a. MET: 1.a.1, 1.b.1, 1.d.1, 1.e.1, 5.b.1.
- b. LEVEL 2 FINDING: None
- c. LEVEL 1 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

3.3.2 Risk Jurisdictions

3.3.2.1 Johnson County Emergency Operations Center and Traffic/Access Control Point

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.b.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.2, 2.c.1, 3.a.1, 3.b.1, 3.c.1, 3.d.1, 3.d.2.
- b. LEVEL 2 FINDING: None
- c. LEVEL 1 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

3.3.2.2 Logan County Emergency Operations Center and Traffic/Access Control Point

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.b.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.2, 2.c.1, 3.a.1, 3.b.1, 3.c.1, 3.d.1, 3.d.2.
- b. LEVEL 2 FINDING: None
- c. LEVEL 1 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

3.3.2.3 Pope County Emergency Operations Center and Traffic/Access Control Point

- a. MET: 1.a.1, 1.b.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.2, 2.c.1, 3.a.1, 3.b.1, 3.c.1, 3.d.1, 3.d.2.
- b. LEVEL 2 FINDING: None
- c. LEVEL 1 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

3.3.2.4 Yell County Emergency Operations Center and Traffic/Access Control Point

In summary, the status of DHS/FEMA criteria for this location is as follows:

- a. MET: 1.a.1, 1.b.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.2, 2.c.1, 3.b.1, 3.c.1, 3.d.1, 3.d.2.
- b. LEVEL 2 FINDING: None
- c. LEVEL 1 FINDING: None
- d. PLAN ISSUES: 3.a.1

ISSUE NO.: 01-16-3a1-P-01

CONDITION: The Radiological Officer provided a radiological briefing for the Traffic/Access Control Point Officer; however, the briefing did not include instructions on how to wear dosimetry. In addition, both the Radiological Officer and TACP Officer where unsure of use and how to wear the dosimetry issued.

POSSIBLE CAUSE: Insufficient training and incomplete procedures.

REFERENCE: Yell County Radiological Response Plan Rev 5.1, NUREG-0654, K.3.a.1.

EFFECT: If emergency workers were not wearing dosimetry and were exposed to radiation they would not be able to track or report accurate readings.

RECOMMENDATION: Provide additional training and revise County Emergency Radiological Response Plans/Procedures to include information on the use and wearing of dosimetry.

and the forestern the

- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

3.3.4 Private Organizations

3.3.4.1 ENS Radio Station KXRJ

- a. MET: 5.a.1.
- b. LEVEL 2 FINDING: None
- c. LEVEL 2 FINDING: None

- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

3.3.5 Federal Jurisdictions

3.3.5.1 NOAA North Little Rock

In summary, the status of DHS/FEMA criteria for this location is as follows:

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- a. MET: 5.a.1.
- b. LEVEL 2 FINDING: None
- c. LEVEL 1 FINDING: None
- d. PLAN ISSUES: None
- e. NOT DEMONSTRATED: None
- f. PRIOR ISSUES RESOLVED: None
- g. PRIOR ISSUES UNRESOLVED: None

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SECTION 4: CONCLUSION

Based on the results of the exercise, the offsite radiological emergency response plans and preparedness for the State of Arkansas and the affected local jurisdictions are deemed adequate to provide reasonable assurance that appropriate measures can be taken to protect the health and safety of the public in the event of a radiological emergency. Therefore, 44 CFR Part 350 approval of the offsite radiological emergency response plans and preparedness for the State of Arkansas site-specific to Arkansas Nuclear One will remain in effect.

con a more more and a first fit one and

APPENDIX A: IMPROVEMENT PLAN

Issue Number: 01-16-3a1-P-01	Criterion: 3a1
Control Point Officer; however, the brief	ed a radiological briefing for the Traffic/Access fing did not include instructions on how to wear gical Officer and TACP Officer where unsure of use
	onal training and revise County Emergency Radiological formation on the use and wearing of dosimetry.
CORRECTIVE ACTION DESCRIPTION	N:
CAPABILITY:	PRIMARY RESPONSIBLE AGENCY:
CAPABILITY ELEMENT:	START DATE:
AGENCY POC:	ESTIMATED COMPLETION DATE:

APPENDIX B: EXERCISE TIMELINE

Table 1 presents the times at which key events and activities occurred during the ANO Plume Exercise held on August 17, 2016.

Table 1 - Exercise Timeline DATE: 2016-08-17, SITE: Arkansas Nuclear One, AR

Emergency Classification Level or Event	Time Utility Declared	State EOC	АDН ЕСС	ADH/SEOF	NOAA	Alt. JIC	Johnson County EOC & T/ACP
Unusual Event	N/A						
Alert	0746	0756	0756	0802		0810	0758
Site Area Emergency	0850	0902		0906	ar a limit to	0850	0900
General Emergency	1038	1050		1038	1102	1042	1052
Simulated Rad. Release Started	1038	1050		1038	· ar · · · · · · · · · · · · ·	1042	1052
Simulated Rad. Release Ended					MINING.		1
Facility Declared Operational		0846	174 19	0919	111111	0920	0812
Declaration of State of Emergency	1 / 1 / 2	0936		Transition (19 FOR BOAR	Control of the Agent	to U.S.
Exercise Terminated:	1235	1245		1235		1235	1240
Early Precautionary Action Decis PAA#1: Alert & call in School Bus				0810		0815	
PAA#2: Activate Reception Center:	S			0822	19.4	0828	0824
PAA#3: Evacuate Schools				0927	the Deligner	1 11/2	0934
Shutdown Rail & River Traffic	S. H. Str.	633			A . 3121	3,47374	
Protective Action Decisions (PAD PAA#4: Evacuations (Subzones: G, P, Q, R & U). Shelter (Subzones: I, T) and KI for EWs & Institutionalize	H, K, N, O, J, L, M, S &	1045		1049		1102	1053
PAA#5: AG & Livestock-impound	quarantine	1230		1225		1229	1230
EAS Messages and Times: #1 Msg#: "E" and Time:					1109	19,00	
#2 Msg#: "S" and Time: #3 Msg#:					1112		
Traffic Detour Advisory: Yell Cour Traffic Detour Cleared: Yell Cour						1121 1144	
KI Administration Decision:				1049			1053

Table 1 - Exercise Timeline DATE: 2016-08-17, SITE: Arkansas Nuclear One, AR

F. AND ISSIN					
Emergency Classification Level or Event	Time Utility Declared	Logan County EOC & T/ACP	Pope County EOC & T/ACP	Yell County EOC & T/ACP	KXRJ ENS (SAV)
Unusual Event	N/A				
Alert	0746	0756	0756	0756	
Site Area Emergency	0850	0859	0854	0856	4.75
General Emergency	1038	1059	1052	1053	
Simulated Rad. Release Started	1038	1048		1053	The same of
Simulated Rad. Release Ended		The same	· 200 - 60		
Facility Declared Operational	1	0826	0823	0845	A Property
Declaration of State of Emergency		0840	0819	e wall.	have beginn
Exercise Terminated: 5114 3 7 7 1	1235	1241	1241	1242	T toin
Early Precautionary Action Decisi PAA#1: Alert & call in School Bus I		0812		0810	
PAA#2: Activate Reception Centers		0828			
PAA#3: Evacuate Schools	All a test	0932	0930		E LONG
Shutdown Rail & River Traffic			0947	ATTA TORK	
Protective Action Decisions (PADs PAA#4: Evacuations (Subzones: G, P, Q, R & U). Shelter (Subzones: I, J T) and KI for EWs & Institutionalize	H, K, N, O, , L, M, S &	1056	1053	1053	ra Krise
PAA#5: AG & Livestock-impound &	& quarantine	1235	1230	1235	1.1.1.19
EBS Messages and Times: #1 Msg#: "E"(Evauation) and Time					
#2 Msg#: "S" (Shelter in Place) and #3 Msg#:	Time:				
Traffic Detour Advisory: Yell Count Traffic Detour Cleared: Yell Coun					
KI Administration Decision:		1112	1103	1053	

APPENDIX C: EXERCISE EVALUATORS AND TEAM LEADERS

DATE: 2016-08-17, SITE: Arkansas Nuclear One, AR

LOCATION	EVALUATOR	AGENCY
Arkansas State Emergency Operations Center	*Norm Valentine	FEMA R7
Arkansas Department of Health, Little Rock Emergency Communications Center	*Andy Chancellor	FEMA R7
Arkansas Department of Health at the State Emergency Operations Facility	*Nan Williams Jeff Clark	FEMA R6 FEMA R7
Arkansas Field Radiological Monitoring Team One	*Scott Flowerday	FEMA R6
Arkansas Field Radiological Monitoring Team Two	*George Brozowski	EPA
Arkansas Nuclear One Emergency News Center	*Cara Christianson-Riley	FEMA R7
Alternate Joint Information Center Little Rock	*Sharron McDuffie Matthew Celia	FEMA RVI FEMA HQ
Johnson County Emergency Operations Center and Traffic/Access Control Point	*Brad DeKorte Dulcie Allen	FEMA R6 FEMA R9
Logan County Emergency Operations Center and Traffic/Access Control Point	*LaShawn Halsey Darren Bates	FEMA HQ FEMA HQ
Pope County Emergency Operations Center and Traffic/Access Control Point	*Timothy Pflieger Pat Tenorio	FEMA R6 FEMA HQ
Yell County Emergency Operations Center and Traffic/Access Control Point	*Linda Gee Clark Galloway	FEMA R6 FEMA HQ
ENS Radio Station KXRJ	*Elsa Lopez	FEMA RVI
NOAA North Little Rock	*Andy Chancellor	FEMA R7

APPENDIX D: ACRONYMS AND ABBREVIATIONS

Acronym	Meaning
ADEM	Arkansas Department of Emergency Management
ADH	Arkansas Department of Health
AJIC	Alternate Joint Information Center
ANO	Arkansas Nuclear One
ARES	Amateur Radio Emergency Services
AWIN	Arkansas Wireless Information Network
CAD	Computer Aided Dispatch
CFM	Cubic Feet Per Minute
DHS/FEMA	Department of Homeland Security/Federal Emergency Management Agency
DEF/VS	Dedicated Emergency Facsimile/Voice System
DRD	Direct Reading Dosimeter
EAS	Emergency Alert System
EBS	Emergency Broadcast System
ECC	Emergency Communications Center
ECL	Emergency Classification Level
EMD	Emergency Management Director
EMS	Emergency Medical Services
ENC	Emergency News Center
ENS	Emergency News Station
EOC	Emergency Operations Center
EOP	Extent of Play
EPA	Environmental Protection Agency
EPD	Electronic Personal Dosimeter
EPZ	Emergency Planning Zone
EW	Emergency Worker
FMT	Field Monitoring Team
FMTC	Field Monitoring Team Coordinator
FTC	Field Team Control
GE	General Emergency
GIS	Geographic Information Systems
HP	Health Physicist
JIC	Joint Information Center
KI	Potassium Iodide

LGL	Local Government Ligison
MHz	Local Government Liaison Megahertz
NAWAS	National Warning System
NOAA	National Oceanic and Atmospheric Administration
NERN	
NP&RP	Nuclear Emergency Radio Network
NWS	Nuclear Planning & Response Program National Weather Service
OEM	
ORO	Office of Emergency Management
OSL	Ontically Stimulated Lymingsont
PAA	Offsite Response Organization Optically Stimulated Luminescent. Protective Action Advisory
	I TOLCOHYO MOHOH MUVISOLY
PAD	Protective Action Decision Protective Action Recommendation Protective Action Recommendation
PAR	Protective Action Recommendation
PDAFN	Persons with Disabilities and Access/Functional Needs
PIB	Public Information Bulletin
PIT	Public Information Team
PRD	Permanent Record Dosimeters Radio Amateur Civil Emergency Service Radiological Assessment Systems for Consequence Applysis
RACES	Radio Amateur Civil Emergency Service
RASCAL	
RDAC	Radiological Assessment Display and Control Systems
REP	Radiological Emergency Preparedness
RO	Radiological Officer
RRTL	Radiological Response Team Leader
SAE	MATERIAL AS TO
SDO	ISTAIL DUIV OTHEET
SEOF	State Emergency Operations Facility Standard Operations Plan
SOP	Standard Operations Plan
TACP	Traffic and Access Control Point
TEDE	Total Effective Dose Equivalent
TLD	Thermoluminescent Dosimeter
TOCD	Technical Operations Control Director
URI	Unified RASCAL Interface

APPENDIX E: EXERCISE PLAN

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Arkansas Nuclear One 2016 Biennial Exercise

August 17, 2016
Extent-of-Play (EOP) Agreement
Between

The Arkansas Department of Health, representing the Off-Site Response Organizations, and FEMA Region VI

EVALUATION AREA 1

Emergency Operations Management

Sub-element 1.a - Mobilization

INTENT

This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to alert, notify, and mobilize emergency personnel, and activate and staff emergency facilities.

Criterion 1.a.1: OROs use effective procedures to alert, notify, and mobilize emergency personnel and activate facilities in a timely manner. (NUREG-0654/ FEMA-REP-1, A.1.a, e; A.3, 4; C.1,4, 6; D.4; E.1. 2; H.3, 4)

Locations:

State EOC ADEM, Camp Robinson; ADH Emergency Communications Center (ECC), Little Rock; ADH State Emergency Operations Facility (SEOF), Russellville; Pope County EOC, Russellville; Johnson County EOC, Clarksville; Logan County EOC, Paris; Yell County EOC, Danville. Alternate Joint Information Center (AJIC), Little Rock.

EOP

- 1. ANO will notify the ADH ECC per established procedures. The ECC will follow the instructions of the RSDO and/or the TOCD
- 2. Direction and Control will remain with the TOCD who will be pre-deployed to the NP&RP office in Russellville. Alternate JIC Radiation Control staff will pre-deploy to Freeway Medical Center to demonstrate direction and control when the TOCD is in route to the SEOF. When SEOF is operational, this staff will pre-deploy to the AJIC. Other alternate JIC PIO staff will pre-deploy directly to the AJIC
- 3. The FRMTs will be pre-deployed at the NP&RP office in Russellville. After activation, teams will stage at the ANG Armory, Russellville. Two teams will go into the field. FRMTs will be directed from the SEOF.
- 4. ADH, Little Rock will only be evaluated at the ECC.
- 5. No shift change will be performed. A list of second shift Key Personnel will be available for review. A shift change briefing will either be demonstrated by the OROs or the evaluator will interview the ORO to determine the content of the briefing.
- 6. The 1st shift may be over staffed for training purposes. Some staff identified on the 2nd shift roster will play with the 1st team. In an actual emergency this over staffing would not be used.

Unclassified Radiological Emergency Preparedness Program (REP)

After Action Report/Improvement Plan

Arkansas Nuclear One

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- Protocols for requesting Federal Support will be demonstrated through interview at the ADH SEOF.
- 8. The following locations will pre-stage: া হ'ল পদ স্থানী প্রতিষ্ঠিত করে হলে লে পুলি । হ'ল । ই । ই
 - a. Radiological Response Team at the NP&RP Office in Russellville.
 - b. Field Teams at the NP&RP Office and then to the Armory in Russellville.
- HOUSE SERVICE OF THE PROPERTY OF THE PROPERTY

ARCA:

or weather

NONE

THE REPORT OF THE PARTY OF THE Sub-element 1.b- Facilities 1900 place 1000 pages 1900 place 1000 place at But the state of the state of the state of

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INTENT

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This sub-element is derived from NUREG-0654, which provides that Offsite Response Organizations (ORO) have facilities to support the emergency response. g straction to a father which that the distribution is to a first the first term to be to a first the con-

Criterion 1.b.1: Facilities are sufficient to support the emergency response. (NUREG-0654/FEMA-REP-1, H.3; G.3.a; J.10.h; J.12; K.5.b) in a fifty of the property of the con-

Locations: State EOC ADEM, Camp Robinson: ADH State Emergency Operations Facility (SEOF) Russellville: Pope County EOC, Russellville: Johnson County EOC, Clarksville; Logan County EOC, Paris; Yell County EOC, Danville; Joint Information Center (Emergency News Center), Russellville; Alternate Joint Information Center (AJIC), Little Rock.

EOP: First time in new 8-year cycle.

ARCA: None

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Arkansas Nuclear One

Sub-element 1.c - Direction and Control

INTENT

This sub-element is derived from NUREG-0654, which provides that Offsite Response Organizations (ORO) have the capability to control their overall response to an emergency.

Criterion 1.c.1: Key personnel with leadership roles for the ORO provide direction and control to that part of the overall response effort for which they are responsible. (NUREG-0654/FEMA-REP-1, A.1.d; A.2.a, b; A.3; C.4, 6)

Locations:

State EOC ADEM, Camp Robinson; SEOF, Russellville; Pope County EOC, Russellville; Logan County EOC, Paris; Yell County EOC, Danville; Johnson County EOC, Clarksville.

EOP:

- 1. ANO will notify the ADH ECC per established procedures. The ECC will follow the instructions of the RSDO and/or the TOCD.
- 2. Direction and Control will remain with the TOCD who will be pre-deployed to the NP&RP office in Russellville. The ADH will be evaluated at this location and the SEOF.
- When the team deploys from the staging area to the SEOF, Direction and Control will be given to the TOCD located in Little Rock until the SEOF is operational.

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ARCA:

None

Sub-element 1.d – Communications Equipment

INTENT

This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs establish and operate reliable primary and backup communication systems to ensure communications with key emergency personnel at locations such as contiguous governments within the EPZ, Federal emergency response organizations, the licensee and its facilities, EOCs, Incident Command Posts, and FMTs.

Control of the contro

Criterion 1.d.1: At least two communication systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations. Communications capabilities are managed in support of emergency operations. (NUREG-0654/FEMA-REP-1, F.1, 2)

Locations:

State EOC ADEM, Camp Robinson; ADH ECC, Little Rock; ADH SEOF, Russellville; Alternate Joint Information Center, Little Rock; Pope County EOC, Russellville; Johnson County EOC, Clarksville; Logan County EOC, Paris; Yell County EOC, Danville; State FRMT 1, Russellville; State FRMT 2, Russellville

EOP:

Each location will demonstrate the use of one primary and one backup communications system and be prepared to discuss backup alternate communication systems. Each location will identify a communications system that is independent of the commercial telephone system.

ARCA:

None

Sub-element 1.e – Equipment and Supplies to Support Operations

INTENT

This sub-element is derived from NUREG-0654, which provides that Offsite Response Organizations (ORO) have emergency equipment and supplies adequate to support the emergency response.

Criterion 1.e.1: Equipment, maps, displays, monitoring instruments, dosimetry, potassium iodide (KI) and other supplies are sufficient to support emergency operations (NUREG-0654/FEMA-REP-1, H.7, 10; I.7, 8, 9; J.10.a, b, e; J.11, 12; K.3.a; K.5.b)

Locations:

State EOC ADEM, Camp Robinson; ADH ECC, Little Rock; ADH SEOF, Russellville; **Emergency News Center Russellville; Alternate Joint Information Center, Little** Rock: Pope County EOC, Russellville; Johnson County EOC, Clarksville; Logan 55 No. 135 County EOC, Paris; Yell County EOC, Danville; State FRMT 1, Russellville; State :: respondent **FRMT 2, Russellville** Afrancian and et alaboração do la composiçõe do la composiçõe de la composiçõe d

EOP:

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 - 2, ADH Little Rock will only be evaluated at the ECC

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- 3. Note: Meters or DRDs that have "bar code" labels can have their calibration and to the state of the quarterly operational check dates verified with the master database maintained by the NP&RP HP. Operational checks of meters will be performed before use, using range of readings stickers on the meters. The first of the first of the second of the
- A Figure 3 of the confirmed by evaluators at locations identified in plans.
 - The availability of TACP equipment will be described through interview at The counties TACP personnel will not go TACP locations.
 - Exposure control and monitoring will be under the control of ANO at the SEOF, the Russellville ENC, and Russellville Rumor Control. ANO will perform habitability determination using meters and area monitoring.
- ু বিজ্ঞান বিভাগত বা is Arkansas policy to issue Ki only to Emergency ব Workers (EW) and institutionalized individuals. Khis not was to wake a grade missued to the general public. If we have a contract if
 - Correction-on-the-spot will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. www.Caution/should be exercised to ensure that exercise play is not interrupted.

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ARCA: None I The training the Straw received the matter of the first training to

EVALUATION AREA 2

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Protective Action Decision-Making

Sub-element 2.a - Emergency Worker Exposure Controller 心温经验 models were accessed

INTENT

This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to assess and control the radiation exposure received by emergency workers and have a decision chain in place, as specified in the ORO's plans/procedures, to authorize emergency worker exposure limits to be exceeded for specific missions conducted in the filter and the missions conducted in the filter and the missions conducted in the filter and the filt the second of the control of the control of the second second second processes as

Criterion 2.a.1: OROs use a decisión-making process, considering relevant factors and appropriate coordination, to ensure that an exposure control system, including the use of KI, is in place for emergency workers, including provisions to authorize radiation exposure in excess of administrative limits or protective action guides. (NUREG-0654/FEMA-REP-1, C.6; J.10. e, f; K.4) THE LAND ROLL OF LOVE OF PARK THE SHOP WHEN THE

Locations:

ADH/SEOF, Russellville; Pope County EOC, Russellville; Johnson County EOC, Clarksville; Logan County EOC, Paris; Yell County EOC, Danville.

and restrict the restriction of the

EOP:

- 5 44.7 Exposure control and monitoring will be under the control of ANO at SEOF. ANO will perform habitability determination using meters and area monitoring. The state of the AETV congression in the state of the AETV congression in the state of the state of the AETV congression in the AETV congression in
- a ser the engine of the continuence State FRMTs will use gloves as necessary. Access to "anti-C's" will be 1. w 1/2 1/19 demonstrated; however, they will not be worn. After the termination of the exercise FMRT members will be prepared to demonstrate the donning and removal of "anti-C's". Respiratory protection will NOT be used. ស្រាល់ ស្រាស់ ស្នំស្នាស់ ស្រាស់ ស
 - 3. At the County EOCs, the RO will demonstrate the EW briefing, record keeping, and procedures for issuing and returning dosimetry and Kl.
 - 4. If the plume does not require a KI decision, the County அத்த நடிகள் அடிEOCs can satisfy this EA by interview வரிய என்றிவத

or one of the first programmer committee the consideration of the contract of

- It is Arkansas policy to issue KI only to Emergency Workers (EW) and institutionalized individuals. EWs who decline to take KI may not be identified in advance. If they decline to take Khat their duty stations, they will not be placed in positions that would expose them to radiation. KI is not issued to the general publicated நடித்தின் அரிக்கிரும் रेंग कर कर के किए के किए के कार कर कर कर कर कर के किए किए किए
- 1998 1998 1999 6. The State of Arkansas may not consider the termination of Emergency Worker exposure control to be at the end of the "plume phase".

-17

ARCA:

Sub-element 2.b. - Radiological Assessment and Protective Action Recommendations and Decisions for the Plume Phase of the Emergency

INTENT

This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to independently project integrated dose from projected or actual dose rates and compare these

estimates to the PAGs. OROs must have the capability to choose, among a range of protective actions. those most appropriate in a given emergency. OROs base these choices on PAGs from their plans/procedures or EPA's Manual of Protective Action Guides and Protective Actions for Nuclear *Incidents* and other criteria, such as plant conditions, licensee PARs, coordination of PADs with other political jurisdictions (e.g., other affected OROs and incident command), availability of in-place shelter, weather conditions, and situations, to include HAB incidents, the threat posed by the specific hostile action, the affiliated response, and the effect of an evacuation on the threat response effort, that create higher than normal risk from general population evacuation.

Criterion 2.b.1: Appropriate protective action recommendations (PARs) are based on available information on plant conditions, field monitoring data, and licensee and ORO dose projections, as well as knowledge of onsite and offsite environmental conditions. (NUREG-0654/FEMA-REP-1, I.10 and Supplement 3)

Locations: ADH SEOF, Russellville.

- Dose Projections will be made per procedures using a combination of RASCAL and RDACS. RASCAL will be the primary model used to make projections based on "plant conditions". Once RDACS outputs are determined to adequately represent the plume, it will be used as the primary model.
- Protective Action Advisories issued by the State may differ from the ANO Protective Action Recommendations and may not reflect the logic identified in NUREG-0654/FEMA-REP-1, Revision 1, Supplement 3, Guidance for Protective Action Strategies (October 2011)

ARCA: None state of the second production of the second control of

Criterion 2.b.2: A decision-making process involving consideration of appropriate factors and necessary coordination is used to make protective action decisions (PADs) for the general public (including the recommendation for the use of KI, if ORO policy). (NUREG-0654/FEMA-REP-1,A,3; C.4, 6; D.4; J.9; J.10.f, m)

Locations:

Pope County EOC, Russellville; Johnson County EOC, Clarksville; Logan County EOC, Paris; Yell County, EOC, Danville.

EOP:

- 1. It is Arkansas policy to issue KI only to Emergency Workers (EW) and institutionalized individuals. KI is not issued to the general public.
- 2. The State issues Protective Action Advisories (PAAs) and ANO issues Protective Action Recommendations (PARs). A PAA and/or PAR become a PAD when all County Judges concur.
- 3. If the plume does not require a KI decision, the county EOCs can satisfy this EA by interview.

ARCA:

None

Unclassified Radiological Emergency Preparedness Program (REP)

After Action Report/Improvement Plan

Arkansas Nuclear One

Sub-element 2.c - PAD Consideration for the Protection of Persons with Disabilities and Access/Functional Needs

INTENT

This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to determine PADs, including evacuation, sheltering, and use of KI, if applicable, for groups of persons with disabilities and access/functional needs (e.g., hospitals, nursing homes, correctional facilities, schools, licensed daycare centers, mobility-impaired individuals, and transportation-dependent individuals). The focus is on those groups of persons with disabilities and access/functional needs that are, or potentially will be, affected by a radiological release from an NPP.

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Criterion 2.c.1: Protective action decisions are made, as appropriate, for groups of persons with disabilities and access/functional needs. (NUREG-0654/FEMA-REP-1,D.4; J.9; J.10.d, e)

Pope County EOC, Russellville; Johnson County EOC, Clarksville; Logan County EOC, Paris; Yell County EOC, Danville.

- Lists and procedures will be demonstrated for supporting "groups of EOP: persons with disabilities and access/functional needs". These lists will be reviewed by evaluators but will not be given to evaluators because of HIPAA requirements. Actions will be simulated
 - County EOCs will actually notify all public school systems/districts one time during the drill IAW with their procedures, if the systems/districts are in session.
 - 3. If the systems/districts are not in session, the EOCs will provide evaluators the contact information for the schools and will satisfy this criterion via interview. Contraction and There is a many to the second state of the first of the second

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EVALUATION AREA 3

Protective Action Implementation: an advantage of the control of t The second of the second of the second second is the second of the secon

Sub-element 3.a - Implementation of Emergency Worker Exposure Control

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and the common of the second second and the second This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to provide for the following: distribution, use, collection, and processing of direct-reading dosimetry and permanent record dosimetry; reading of direct-reading dosimetry by emergency workers at appropriate frequencies; maintaining a radiation dose record for each emergency worker; establishing a decision chain or authorization procedure for emergency workers to incur radiation exposures in excess of the PAGs, and the capability to provide KI for emergency workers, always applying the —as low as is reasonably achievable|| principle as appropriate. Williams and was discussive to be broken as a few process of the contract of

Criterion 3.a.1: The OROs issue appropriate dosimetry, KI, and procedures, and manage radiological exposure to emergency workers in accordance with the plans/procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart. OROs maintain appropriate record-keeping of the administration of KI to emergency workers. (NUREG-0654/FEMA-REP-1, J.10.e: K.3.a. b: K.4)

Substitution of the state of th

Locations: ADH/SEQF, Russellville; State Field Radiological Monitoring Teams (FRMT) 1 and (FRMT) 2, Russellville; Pope County EOC, Russellville; Johnson County EOC, Clarksville; Logan County EOC, Paris; Yell County EOC, Danville.

EOP

- 1. Come Exposure control and monitoring will be under the control of ANO at SEOF. Dosimetry will be available to deploying personnel when appropriate.
- RECEIVED TO COMPARED OF EXPLANTS OF EXPLICATION OF CONTRACT CONTRA 2. State FRMTs will use gloves as necessary. Access to "anti-C's" will be demonstrated; however, they will not be worn. After the termination of the exercise FMRT members will be prepared to demonstrate the donning and 5.65 Percentage of fanti-C's". Respiratory protection will NOT be used. AND THE PROPERTY OF A PARTY OF A
 - 2. County ROs will demonstrate the EW briefing, record keeping, and procedures for issuing and returning dosimetry and KI.
 - year various of a billion is a year of a site of 4. Arkansas policy to issue KL only to Emergency Workers (EW) and institutionalized individuals. KI is not issued to the general public.
 - THE COURT OF THE PROPERTY OF T If the scenario does not require a KI decision, OROs can satisfy this EA by interview.

BORNER FREE FOR FOR THE STORY OF THE STORY

- The State of Arkansas may not consider the termination of Emergency Worker exposure control to be at the end of the "plume phase".
- THE STATE OF BEDER WASSERS BEING THE WASHINGTON TO A SHALL OF THE A SHALL 1 19 18 18 18 18 18 The listing of EWs who have ingested KI would be developed after the exposure forms are turned in. Because of the length of this exercise, this requirement will not be demonstrated. Each EW who simulates taking KI will have a form documenting when it was taken. These forms would be the basis for developing this list. Forms will be available for evaluator review.

- 8. Correction-on-the-spot will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to ensure that exercise play is not interrupted.
- 9. It is Arkansas policy to issue KI only to Emergency Workers (EW) and institutionalized individuals. EWs who decline to take KI may not be identified in advance. If they decline to take KI at their duty stations, they will not be placed in positions that would expose them to radiation.

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Sub-element 3.b - Implementation of KI Decision for Institutional individuals and the General Public Conference of their tree of Alpertine Officers, 25 are all the Conference of the Conference of Conference of Confere

This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to provide KI for institutionalized individuals, and if in the plans/procedures to the general public for whom immediate evacuation may not be feasible, very difficult, or significantly delayed. While it is necessary for OROs to have the capability to provide KI to institutionalized individuals, providing KI to the general public is an ORO option and must be reflected as such in ORO plans/procedures. Provisions must include the availability of adequate quantities, storage, and means of distributing KI. ាស់ ខាត់ ប្រជាជាក្រស់ ក្រសួងទៅ អស្ជិសិស្សាស្តារ៉ាស់ ស្នូសីសអ្នកស៊ីរី

Criterion 3.b.1: KI and appropriate instructions are available if a decision to recommend use of KI is made. Appropriate record-keeping of the administration of KI for institutionalized individuals and the general public is maintained. (NUREG-0654/FEMA-REP-1, J.10.e, f): មនុស្ស នេះជាស្ថិត បានសម្រេច សម្រេច ស្ថិត្ត ស្រែក ស

Locations: Pope County EOC, Russellville; Logan County EOC, Paris: Yell County EOC, Danville; Johnson County EOC, Clarksville. garante and a company of the standard of the s

EOP:

It is Arkansas policy to issue KI only to Emergency 1. Workers (EW) and institutionalized individuals. Ki is not ি issued to the general public. ান বিভাগ কিন্তু কিন্তু কিন্তু in although young edition between

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- If the scenario does not require a KI decision, the County 2. 半。EOCs can satisfy this EA by interview. 過過過過過過
- Use of KI by EWs will be simulated.
- 4. Correction-on-the-spot will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to ensure that exercise play is not interrupted. in the man of the larger of a first order of control and the properties of the more properties of the more properties of the first and the control and the first descriptions of the first and the control and the first descriptions of the first and the control and the first descriptions of the first description of the first descriptions of the first descri

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Arkansas Nuclear One

Sub-element 3.c - Implementation of Protective Actions for Persons with Disabilities and Access/Functional Needs: Applications and the Application and the

This Sub-element is derived from NUREG-0654/FEMA-REP-1; which requires that OROs have the capability to implement PADs, including evacuation and/or sheltering, for all persons with disabilities and access/functional needs. The focus is on those persons with disabilities and access/functional needs that are (or potentially will be) affected by a radiological release from an NPP ราว วาที่สาราช หัวสมาหาร สวันที่เฉพาะ รุบาที่เวลิ คนาย จุฬร กลาด

Criterion 3.c.1: Protective action decisions are implemented for persons with disabilities and access/functional needs other than schools within areas subject to protective actions. (NUREG-**0654/FEMA-REP-1, J.110.c, 対応, g)** 16はない ことがいいまた。 またい (1997) 16は (1997) 16は

Pope County EOC, Russellville; Johnson County EOC, Clarksville; Logan County EOC, Paris, Yell County EOC, Danville.

- 1. Lists and procedures will be demonstrated for supporting "groups of persons with disabilities and access/functional needs", if required by the scenario. Actions will be simulated. The state of the s
- 2. If contacting a transportation provider is not demonstrated, a controller inject will be provided. Only one provider will be actually contacted at each inject will be provided. Only one provider will be provided to the first section of the first

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Sub-element 3.d. – Implementation of Traffic and Access Control

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INTENT

This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to implement protective action plans/procedures, including relocation and restriction of access to evacuated/sheltered areas. This Sub-element focuses on selecting, establishing, and staffing of traffic and access control points, and removal of impediments to the flow of evacuation traffic.

Criterion 3.d.1: Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access control personnel. (NUREG-0654/FEMA-REP-1, A.3; C.1,4; J.10.g, j)

Locations:

Pope County EOC, Russellville; Logan County EOC, Paris; Yell County EOC, Danville; Johnson County EOC, Clarksville.

EOP:

- 1. The RO will issue Dosimetry, KI and brief the Deputy assigned to the T/ACP as appropriate. The Deputy will not drive to the location. The Deputy will talk through the T/ACP, monitoring, and EW exposure control procedures.
- 2. Correction-on-the-spot will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to ensure that exercise play is not interrupted.

ARCA:

None

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Criterion 3.d.2: Impediments to evacu	istian ara idantifi	ad and receive	A MIIDEC NEE	I/CEMA DED
Criterion 3.u.z. impediments to evacu	iauvii are ideiiuiid	eu anu resorve	iu. (NUKEG-0004	HFCINA-KEF-
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1, J.10.k)				
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Locations:

Pope County EOC, Russellville; Logan County EOC, Paris; Yell County EOC, Danville; Johnson County EOC, Clarksville.

EOP:

1. The EOC representative will talk through the procedures that demonstrate the capability to identify and take appropriate actions concerning impediments to evacuation.

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- 2. An inject will be inserted after the evacuation has started. The inject will require the re-routing of traffic.
- 3. If a GE has not been declared and evacuations have not been ordered, this inject will be inserted out of sequence.
- 4. All EOCs will discuss how this road closing information and re-routing information will get to the public. One County EOC will contact the SEOF with the re-routing information. The LGL will prepare a Public Notification Message and provide the re-routing information to the ENC. The LGL will not transmit the PNM but will explain the distribution. The ENC will prepare a News Release and will provide the Release to the AJIC for briefing to the media. The other Counties will simulate providing the information to the LGL.
- 5. Actual dispatch of resources will not take place.

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Unclassified Radiological Emergency Preparedness Program (REP)

After Action Report/Improvement Plan

EVALUATION AREA 4

Field Measurement and Analysis soge that the consequence of the conseq ikan talah kebelar terbih pembah dibis permenengah diang perbanah ana pada kebalah dibis perbanah berahan bera

Sub-element 4.a – Plume Phase Field Measurements and Analyses

INTENT

This Sub-element is derived from:NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to deploy FMTs with the equipment; methods, and expertise necessary to determine the location of airborne radiation and particulate deposition on the ground from an airborne plume. In addition, NUREG-0654/FEMA-RER-1 indicates that OROs must have the capability to use FMTs within the plume exposure pathway EPZ to detect airborne radioiodine in the presence of noble gases and radioactive particulate material in the airborne plume. In an incident at an NPP, the possible release of radioactive material may pose a risk to the nearby population and environment. Although incident assessment methods are available to project the extent and magnitude of a release, these methods are subject to large uncertainties. During an incident, it is important to collect field radiological data to help characterize any radiological release. Adequate equipment and procedures are essential to such field measurement efforts. The second secretary was stronger than the second of the second

office and a subject of the state of the second subject to a subject to the second subje

4.a.2: Field teams (2 or more) are managed to obtain sufficient information to help characterize the release and to control radiation exposure. (NUREG-0654/FEMA-REP-1, C.1; H.12; I.7, 8, 11; · 维数1.4 20位 (1977年) 1970年 - 1

Locations: SEOF Russellville and the second second

- EOP: State FRMTs will follow the ALARA Policy of the Arkansas Department of Health. Teams will not routinely traverse a plume. State Teams will define the edge of the plume. Air www.samples.will be taken in areas reading near 20 mR/hr or as directed.
 - Air samples will not be transported. The team member will discuss the 2. process for transferring samples.
 - SUCCESS OF SERVINGE PARTY WAS PROPERLY OF THE SERVINGE 3. Correction-on-the-spot will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Gaution should be exercised to ensure that exercise play is not interrupted.

ARCA:

None

Criterion 4.a.3: Ambient radiation measurements are made and recorded at appropriate locations, and radioiodine and particulate samples are collected. Teams will move to an appropriate low background location to determine whether any significant (as specified in the plan and/or procedures) amount of radioactivity has been collected on the sampling media. (NUREG-0654/FEMA-REP-1, C.1; H.12: I.8, 9; J.10.a)

Locations: State FRMT 1, Russellville; State FRMT 2, Russellville

EOP:

- State FRMTs will follow the ALARA Policy of the Arkansas Department of Health. Teams will not routinely traverse a plume. State Teams will define the edge of the plume. Air samples will be taken in areas reading near 20 mR/hr or as directed. The second of the se
- Air samples will not be transported. The team member will discuss the 2.
- 3. Correction-on-the-spot will be considered at these locations at the discretion of and concurrence between the evaluator and the controller. Caution should be exercised to ensure that exercise play is not interrupted. The end of a commence of the second of the second of the

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- 4. Air samplers will not be purged.
- 5. FRMTs may be asked to describe all procedures not demonstrated.
- 6. Charcoal canisters will be used instead of Silver Zeolite. Silver Zeolite canisters will be available for evaluator review.
- 7. Sealed kits do not have to be inventoried. However, FRMTs can inventory them if they want.

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- 100 with 8. A. Two teams will be deployed to the field with the high teams will be deployed to the field.
 - State FRMTs will use gloves as necessary. Access to "anti-C's" will be demonstrated; however, they will not be worn. After the termination of the exercise FRMT members will be prepared to demonstrate the donning and rémoval of "anti-C's" at the Armory. Réspiratory protection will NOT be

ARCA: None

EVALUATION AREA 5

Emergency Notification and Public Information a rome of a compating was all as an a second of the

Sub-element 5.a. - Activation of the Prompt Alert and Notification System

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ing the filter and the system is any energy of the

INTENT CONTROL OF CONTRACTORS A RESERVED FOR CONTROL OF A STATE OF CONTROL OF This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to provide prompt instructions to the public within the plume exposure pathway EPZ. Specific provisions addressed in this Sub-element are derived from the Guide for the Evaluation of Alert and Notification Systems for Nuclear Power Plants, FEMA-REP-10 (November 1985). with the contribution the regular of the first property of the contribution of the contribution of

Criterion 5.a.1: Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. The initial instructional message to the public must include as a minimum the elements required by current REP guidance. (NUREG-**0654/FEMA-REP-1, E.5, 6, 7)** And the second of the street, and the street, and the second of the se

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Locations:

SEOF, Russellville: NOAA. North Little Rock; Station KXRJ, Russellville. "我们的"哪个有情况的,好好"别一点一点一点"你不是你不是你没好!""我们不不会,不是你们一点。"

EOP:

- The EAS is not used for ANO alert and notification. The alerting is accomplished by the activation of the siren system and the tone on the NOAA radio. The notification will be demonstrated by the simulated was to the broadcast of the message on NOAA radio and simulated, remote takeover of KXRJ's transmitter and the re-broadcast of the NOAA message.
- a. If the Local Government Liaison (LGL) position is staffed at the SEOF when the first PAD is issued requiring activation of the Tarilly and along the ANS: A specific of the Colonian Colonia Colonian Colonia Colonian Colon
- 1) The activation of the siren system will be demonstrated at non the second and provide the SEOF. The second by
 - また per completed by the LGL and e provided to NOAA for broadcast.
- க்கத்திருள்ள நடித்தத் அளிந்த big lifthe LGL position is staffed at the NP&RP offices when the first PAD: is issued requiring activation of the ANS:
 - and the siren system will be demonstrated at the NP&RP offices.
 - 2) Emergency Messages will be completed by the LGL and Ohar with a provided to NOAA for broadcast Drawer and the Application of the control of the co

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- 2. No sirens will sound and local radio messages and National Oceanic and Atmospheric Administration (NOAA) messages will NOT BE BROADCAST. The siren activation will be simulated. However, the procedures should be demonstrated up to the point of actual activation. In Arkansas the County Judge is the decision maker for protective actions. The TOCD only recommends actions. Since the State does the "alert and notification", the State must wait until the final Judge makes a decision to agree with the recommendation before the "alert and notification" begins.
- 3. Local radio message simulation will be demonstrated at radio station KXRJ in Russellville. A site visit will be made to check equipment. The remote takeover of the KXRJ will be simulated at either the NP&RP office or the SEOF.

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- 4. NOAA message simulation will be demonstrated at the National Weather Service Forecast Office, North Little Rock. Any real emergency will take precedence. Procedures to broadcast the message will be fully demonstrated as they would in an actual emergency up to the point of transmission. Broadcast of the message(s) or test messages is not required.
- 5. Route Alerting is not a Primary ANS method. It will not be demonstrated.

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Sub-element 5.b — Emergency Information and Instructions for the Public and the Media

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This Sub-element is derived from NUREG-0654/FEMA-REP-1, which requires that OROs have the capability to disseminate appropriate emergency information and instructions, including any recommended protective actions, to the public. In addition, NUREG-0654/FEMA-REP-1 requires OROs to ensure that the capability exists for providing information to the media. This includes the availability of a physical location for use by the media during an emergency. NUREG-0654/FEMA-REP-1 also provides that a system must be available for dealing with rumors. This system will hereafter be known as the —public inquiry hotline.

Criterion 5.b.1: OROs provide accurate subsequent emergency information and instructions to the public and the news media in a timely manner. (NUREG-0654/FEMA-REP-1, E.5, 7; G.3.a, G.4.a, c)

Locations:

Emergency News Center, Russellville; Alternate Joint Information Center, Little Rock.

EOP: The second of the second

- Media kits will be provided by Entergy at the AJIC.
- 2. Rumor Control activity is staffed by ANO employees IAW Entergy plans and procedures.
- 3. The JIC and Rumor Control will be in Little Rock. They will pre-stage!
- 4. County representation at the JIC will be through the ENC Liaison position. County personnel will not be at the JIC.
- 5. State News Release will be written at the ENC.

ARCA:

None

Emergency Planning

Exercise Package Review

Exercise Date: August 17, 2016

Signature

Robert Carey, Manager, Emergency Preparedness

Date <u>.6-/6-/6</u>

Signature 1

Terry Evans, Scheral Manager Plant Operations

Date



Entergy Operations, line. 1449 S.R. 388 Russolville, AR 72500 Tel 473-858-4704

Stephenic L. Pyte Menager, Regulatory Assurance Arkensas Sucker One

10 CFR 2.390 Englosure Withheld

OGAN061601

June 17, 2016

U.S. Nuclear Regulatory Commission Atla: Document Control Desk Washington, DC 20555-0001

SUBJECT:

Emergency Plan Full Participation

Exercise Drill Scenario

Arkansas Nuclear One - Units 1 and 2

Docket Nos. 50-313 and 50-368

License Nos. DPR-51 and NPF-6

Dear Sir or Madam:

In accordance with the provisions of 10 CFR 50, Appendix E Section IV.F.2.b, Entergy Operations, Inc. is providing the full participation exercise scenario pursuant to 10 CFR 50.4 at least 60 days prior to the drill at Arkansas Nuclear One. Enclosed please find the drill scenario for the full participation exercise which is currently scheduled for August 17, 2016. Minor changes may be made prior to drill performance based on comments received from external agencies.

Entergy requests that the enclosure which contains confidential information be withheld from public disclosure in accordance with 10 CFR 2.390.

There are no new commitments contained in this submittal. If you need any additional information, please contact me.

Full Participation Exercise Drill Scenario Endosure:

This letter contains confidential information – The enclosure is withheld from public disclosure per 10 CFR 2,390.

0CAN061601 Page 2 of 2

This letter contains confidential information — The enclosure is withheld from public disclosure per 10 CFR 2.390.

cc: (with enclosure)

Mr. Paul Elkmann U. S. Nuclear Regulatory Commission, Region IV 1600 East Lamar Boulevard Arlington, TX 76011-4511

(without enclosure)

Mr. Marc Dapas Regional Administrator U. S. Nuclear Regulatory Commission; Region (V 1600 East Lamar Boulevard Arlington, TX 76011-4511

NRC Senior Resident Inspector Arkansas Nuclear One P.O. Box 31D London, AR 72847

U. S. Nuclear Regulatory Commission Attn: Mr. Stephen Koenick MS 08 B1A One White Flint North 11555 Rockville Pilke

This letter contains confidential information — The enclosure is withheld from public disclosure per 10 CFR 2.390.

Unclassified Radiological Emergency Preparedness Program (REP)

After Action Report/Improvement Plan Arkansas Nuclear One and the section of th S. C. L. F. W. L. HOLO SERVICE A STORY CONTRACTOR A STORY SERVICE A STORY CONTRACTOR Enclosure to 🕟 0CAN061601 Full Participation Exercise Drill Scenario (1997) 1992 1993 ACBRIAND TO THE STATE OF THE ST This letter contains confidential information - The enclosure is withheld from public disclosure per 10 CFR 2,390. The state of the s

NRC EXERCISE AUGUST 17, 2016

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2016 Emergency Preparedness Exercise (REX-16)

Initial Conditions

• The plant has been operating for the past 260 days at 100% power and is at the middle of core life.

• The 2P-36B charging pump is out of service for an oit baffle repack. Work began at 06:00 this morning. The estimated completion of the PM is 10:30 today. The oil has been drained and the crew is exiting the plant with the drained oil.

Scenario Event Sequence

- Q7:25 A NOAA radio broadcast for a Severe Thunderstorm Warning for Pope and Yell Countles occurs in the Control Room.
- O7:33 A NOAA radio broadcest for a Tornado Warning for Pope and Yell Counties occurs in the Control Room.
- ANO Site Security reports to the Control Room that a fleavy rain is occurring and that a tomado has been spotted on the ground south of the firing range moving toward the north. Trees and debris are flying around in the air at this time near the firing range and debris has been thrown over the roadway leading from ANO to Flatwood Drive. No damage has occurred in the Protected Area of the plant at this time.
- 07:40 Due to water ingress into the motor terminal connection box, the A Circ Water Pump (2P-3A) will trip.
- As the tomado moves to the north/northwest, trees and other debris are thrown into the air with significant debris falling into the Emergency Cooling Pond (ECP). The ECP instrumentation panel at the ECP fenced area will be damaged when a large tree was thrown into the area. There is a vehicle turned upside down and driven nose-down into the suction valve of the ECP. The tornado, moving toward the northwest, lifts into the clouds and dissipates before crossing Hwy. 333.

With the damage report from the tomado, the Unit 2 Shift Manager will classify an Alert emergency class based upon the following EAL:

EAL HA6 - Natural or destructive phenomena affecting VITAL AREAS:

2. Tornado striking or winds > 67 mph (2 minute average) resulting in VISIBLE DAMAGE to the Ultimate Heat Sink (Emergency Cooling Pond).

The Emergency Response Organization (ERO) will be notified of the ALERT declaration via the ERO Notification System (ERON) and will be instructed to report to their assigned Emergency Response Facilities. Offsite notifications to Local, State and Federal agencies will be performed by the Control Room for the ALERT emergency classification in accordance with Procedure 1903.011, "Emergency Response/Notifications".

-0900

2016 Emergency Preparedness Exercise (REX-16)

A vibration alarm is received in the U-2 Control Room for Reactor Coolant Pump 2P-32D. Immediately after the vibration alarm, the 2P-32D shaft shears. An automatic reactor trip signal is received, but the reactor does not trip. The RPS manual trip of the reactor does not function, DSS does not function and the reactor trip will have to be performed in the Control Room by de-energizing 480v buses 2B-7 and 2B-8. A Site

EAL SS3: 1.a - An automatic trip failed to shutdown the reactor AND 1.b - Manual actions taken at panel C03 (Unit 1) or panels 2C03/2C14 (Unit 2) do not shutdown the reactor as indicated by reactor power > 5%.

Area Emergency (SAE) emergency classification based upon the following EAL:

Offsite authorities will be notified of the SAE classification in accordance with Procedure 1903.011, "Emergency Response/Notifications".

Within 30 minutes of the SAE declaration, all required procedure actions will have been performed for the evacuation of non-essential personnel from the Protected Area and Site Security will have provided the Initial Accountability Report to the TSC Emergency Plant Manager (SM if TSC EPM is not available). Note: Non-essential personnel will be evacuated to the <u>parking lot only</u> until personnel accountability has been completed.

- The Technical Support Center (TSC), Operational Support Center (OSC) and the Emergency Operations Facility (EOF) emergency response facilities should be staffed and "Operational". The EOF Emergency Director will have assumed or be in the process of assuming Emergency Direction & Control (ED&C) from the Unit 2 Control Room Shift Manager.
- 0915 The Falled Fuel lodine Radiation Monitor 2RITS-4806B in the U-2 Control Room will indicate 1.3E5 counts per minute (cpm). This value will indicate that fuel clad degradation is greater than Technical Specification allowable limits. If not already requested, the U-2 Control Room will request that Chemistry perform RCS sampling to determine RCS activity levels.
- O9:30

 The 2P-36A charging pump trips due to a failed under-voltage relay. An NLO and/or an OSC repair team will be dispatched to evaluate the pump. An assessment of the pump will indicate that the relay must be replaced to restore the remote start capability of the pump. An NLO could be directed by the control room to locally start the pump.
- A 2000 GPM Loss of Coolant Accident (LOCA) will occur on the RCS "D" Cold Leg releasing radioactive primary coolant into the Containment. As a result of the LOCA, fuel cladding failure will increase to approximately 3% as indicated by both the Containment High Range Monitors and the RCS Sample Line 2TCD-19 (if Chemistry has aligned the RCS for sampling).

When the Containment Spray Actuation signal occurs. The "B" Containment Spray Pump will run for 5 minutes then fail. An electrical (and possibly mechanical) maintenance team will be dispatched by the OSC to investigate the problem and will determine that the motor needs to be replaced due to shorted motor windings. Expected time required to replace the motor is 8 hours.

10:30

11:00

, 2016 Emergency Preparedness Exercise (REX-16).

The "A" Containment Spray Pump will fell to start on the SIAS. An OSC repair team will be dispatched to evaluate the "A" Containment Spray Pump and will determine that the supply breaker for the pump has falled due to the breaker cam roller failing and the breaker should be able to be repaired within 2-4 hours.

With the LOCA occurring in the Containment Building and the failure of the Containment Spray pumps, pressure inside Containment will be increasing significantly.

When SIAS actuates, 2CV-3850-2 receives a closed signal and the cabling for 2CV-3850-2 faults in the CNTMT penetration (2WR-40-2). The 480V MCC breakers (28-63E1 and 28-63F2) do not open as designed. The 2B-63 bits will lock out as a result of the breakers not opening. The CNTMT penetration is damaged and is now releasing radiation in the Upper North Electrical Penetration Room.

Other impacts from the loss of 2B-63 bus are the loss of power to the service water valves for the green train containment coolers and the loss of power to the CNTMT coolers 2VSF-1C/D.

Area Radiation Monitors will begin to Indicate increased radiation levels in the Auxiliary Building and the Penetration Room. The Super Particulate Iodine Noble Gas (SPING) Monitor 2RX-9835 on Unit 2 will begin to indicate a radiological release via the penetration ventilation system. The increased radiation levels in the plant and the start of a radiological release via SPING 2RX-9835 will be noted and svaluated by both Radiation Protection and Dose Assessment personnel and will be communicated to the Emergency Director in the EOF.

Based upon the RCS leakage, clad failure and radiological release in progress, the Emergency Director should declare a General Emergency classification in accordance with the following EAL:

EAL FG1: Loss of ANY two barriers AND loss or potential loss of third barrier.

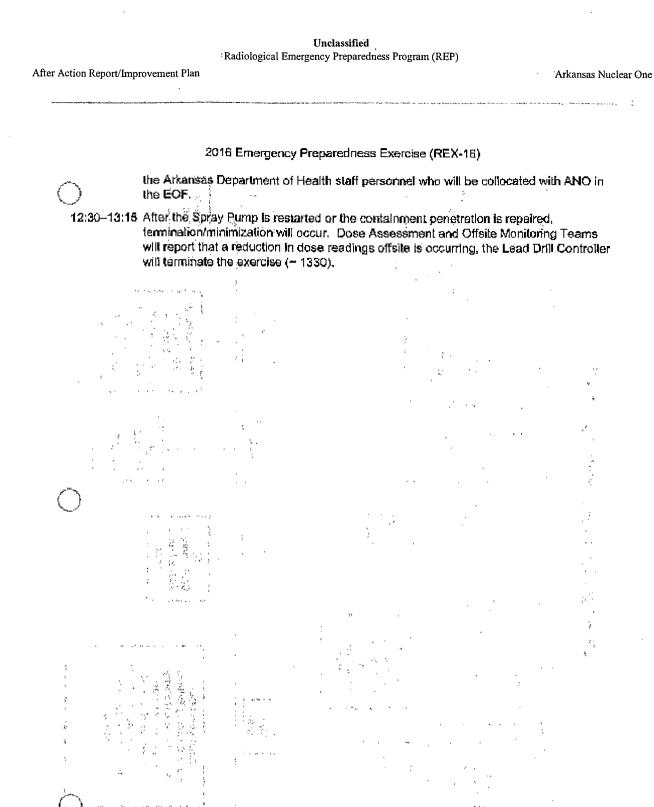
The EOF will perform offsite notifications to Local, State and Federal agencies for the GENERAL EMERGENCY classification which will include specific Protective Action Recommendations (PARs) for the general public within the 10-mile Emergency Planning Zone (EPZ) as follows:

PAR NO. 1

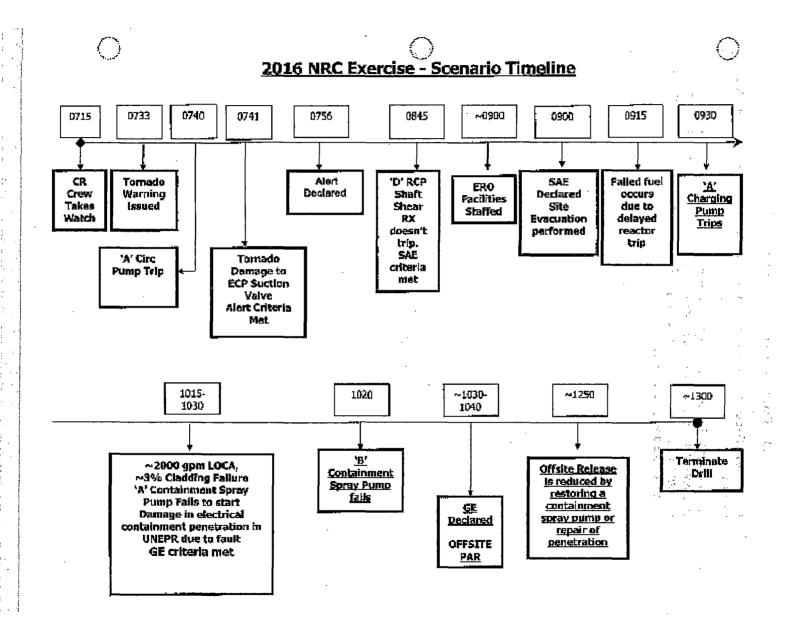
- Evacuate 2-mile radius and 2-5 miles downwind
- Remainder of the EPZ population to remain indoors

The Dose Assessment Team (DAT) in the EOF and the RP Offsite Monitoring Teams dispatched from the EOF will continue to monitor the radiological release and track the projected pathway of the radiological plume and will monitor and report offsite radiation levels back to the Offsite Team Coordinator (OTC) in the EOF. The Radiological Assessment Coordinator (RAC) in the EOF will maintain an update of offsite radiological conditions and continue to communicate this information to the Emergency Director and

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This section contains a chronological listing of major scenario events and anticipated responses and is intended for the effective placement of controllers, evaluators, and observers. The anticipated responses listed in this section do not necessarily include all of the acceptable actions by players and should not be used as a basis for performance evaluations. Evaluations of player decisions should be based on appropriate implementation of the Emergency Plan and procedures.

Initial Conditions

- Unit 1
 - 100% power, no apparent problems
- Unit 2
 - The plant has been operating for the past 260 days at 100% power, and is at the middle of core life.
 - The 2P-36B charging pump is out of service for an oil baffle repack. Work began at 06:00 this morning. The estimated completion of the PM is 10:30 today. The oil has been drained and the crew is exiting the plant with the fogay.drained oil.

$\label{lem:continuous} Unclassified \\ Radiological Emergency Preparedness Program (REP)$

DETAILED SCENARIO

Note:	All st	enario	times:	are 2	pproxir	nate.

TIME	IME MESSAGE#			Comments	
0645 - 0715	1 2	From	Simulator Booth Operator	Event	<u>Turnover</u> The crew receives a shift turnover from the Simulator staff (Initial Conditions).
,	3	То	Control Room Staff	Expected Response	The crew will assume the watch at ~0715.
	4	From	Simulator Booth Operator	Event	NOAA Weather Radio broadcasts message for Severe Thunderstorm Warning for Pope County.
	Expected Response	Control Room announces Thunderstorm Warning to Plant Personnel and Training Center over the PA system. COPD-24, "Risk Assessment Guidelines" and 1203.025, "Natural Emergencies" will be reviewed for actions associated with a Severe Thunderstorm Warning.			
5 Fr		From	Simulator Booth Operator	Eyent	NOAA Weather Radio broadcasts message for Tornado Warning for Pope County.
	 	То	Control Room Staff	Expected Response	Crew will take actions IAW OP-1203.025, "Natural Emergencies"
0738	5	From	Simulator Booth Operator	Event	Security report that a tomado is south of the firing range with flying debris and that access to Flatwood drive is blocked. No damage to the Protected Area
·		To	Control Room Staff	Expected Response	Acknowledge message

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terminal box.

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LANGER OF STREET

Crew should assess EAL call criteria.

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dropped for "A" Circ. Pump."

box on the side of the motor,"

(Alert Criteria met)

Comments

Security report of damage to the ECP suction valve and instrument panel and that the tornado is gone and the storm is dissipating

NLQ responds to breaker deck and delivers the following information.

NLO responds to breaker deck and delivers the following information

"There are black flash marks on the motor termination connections

"A" Circ Pump breaker is tripped. The Motor differential relay has

A Circ Water Pump will trip due to water ingress into the motor

Crew will enter Loss of Condenser Vacuum AOP

NLO investigation of 2-P3A; Circ Pump, breaker

NLO / Electrician 2P-3A, Circ Pump Investigation

TIME

0740

0741

~0741

~0741

MESSAGE #

Simulator

Booth

Operator

Control Room

Staff

NLO

Controller

NLO

Event

Event

Expected

Response

Event

Expected

Response

Event

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TIME MESSAGE#			SAGE#		Comments
~0745	11	From	NLO Controller	Event	NLO performs Standard Attachment 47
		To	NLO	Expected Response	Perform SA 47 and report results to the control room.
		From	3 2 2 3 4 4	Event	Alert Declaration.
· · · · · · ·		10 to	**************************************		The Shift Manager will declare an Alert based on the following Emergency Action Level (EAL):
0756		*		7	EAL HA6 – Natural or destructive phenomena affecting VITAL AREAS: 2. Tornado striking or winds > 67 mph (2 minute average) resulting in VISIBLE DAMAGE to the Unimate Heat Sink (Emergency Cooling Pond).
		То			The Shift Manager will direct the Control Room Communicator to notify the ERO and Plant Management of the Alert classification event.
				数	The Shift Manager will direct the Control Room Communicator to notify offsite authorities of the Alert declaration.
10.97	1 1 1 1 1 1 1 1 1		5 5 6 5 6 5 6 5 6 5 6 6 6 6 6 6 6 6 6 6	State and local authorities will be advised that there are no protective actions recommended for the general public at this time.	
Vanable	1G	From	Lead Drill Controller	Event	Contingency Message If the Shift Manager has not yet declared the Alert within 15 minutes of the EAL criteria being met, issue this message.
		То	Shift Manager	Experted Response	Declare an Alert emergency classification.

ПМЕ		ME	SSAGE#	er Fyr i ar A	Comments
		From	I&C Controller	Event	I&C Investigation of ECP damage
-0750	12	То	I&C Tech	Expected Response	Report findings
	***	From	€NLO Controller	Event	NLO investigation of ECP suction valve area
	14	Тъ	NLO	Expected Response	Report findings
Variable		From	Dose Aşşessment Controller	Event	Dose Assessment Team obtains current weather forecast.
After ERO activation	ERO 13		Dose Assessment Team	Expected Response	Controller provides the drill weather forecast to the Dose Assessment Tearn when an actual forecast has been obtained using Procedure 1904.002, "Offsite Dose Projections".
0945	пID	From		Event	Vibration alarm received on D Reactor Coolant Pump. Vibrations increase rapidly and result in a 2P-32D shaft shear (coupling failure) The automatic trip of the reactor does not actuate. The RPS manual trip of the reactor does not function, DSS does not function and the reactor trip will have to be performed in the Control Room by deenergizing 480v buses 26-7 and 28-8. (SAE criteria met)
0845			Expected Response	Crew will open the feeder breakers for 2B-7 and 2B-8 to trip the reactor.	
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TIME		MES	SSAGE#	<u> </u>	Comments
		Frem	EOF/TSC/ Communicator Controller	Event	SAE Declaration.
• •.					The Shift Manager will declare an SAE based on the following Emergency Action Level (EAL):
			F D		EAL SS3: 1.a - An automatic trip falled to shutdown the reactor AND 1.b - Manual actions taken at panel C03 (Unit 1) or panels 2C03/2C14 (Unit 2) do not shutdown the reactor as indicated by reactor power > 5%.
0900		То	EOF Offsite	Expected	The Shift Manager will direct the Control Room Communicator to notify the ERO and Plant Management of the SAE classification event.
. ,		6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EPM	Response	The Shift Manager will direct the Control Room Communicator to notify offsite authorities of the SAE declaration.
	: : : : :				State and local authorities will be advised that there are no protective actions recommended for the general public at this time.
***** * **** *		, - h	, °	t u r	
					- 4.7 · · ·
i. Servenson en	6. 3 .	From	Lead Drill Controller	Event	Contingency Message If the Shift Manager has not yet declared the SAE within 15 minutes of the EAL criteria being met, Issue this message.
0900	20	Ťσ	Shift Manager	Expected Response	ле ≞AL criteria being met, issue this message. Declare an SAE emergency classification.
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TIME	MESSAGE #			Comments		
0900	16	From	TSC Lead Controller / Security Controller	Event	Initial Accountability	
and the second		То	EPM / Security Officer	Expected Reaponse	Ensure EPM has mocked up forms. When initial accountability report is obtained, controller will remove those names that are exempt.	
0900		rom From		Evånt	Emergency Response Facilities Staffed The TSC, QSC, and EOF should be staffed and operational with the EOF ED assuming ED&C from the U2 Shift Manager. The EOF, TSC and QSC are required to be staffed / operational within 60-90 minutes of the declaration of the ALERT emergency class. The JiC must be staffed / operational within 120 minutes of the Alert emergency class.	
		To	()	Expected Response		
0915	त कर्ता है है के देश के तो करते हैं के तह है तह है के तह	From		Event	The Failed Fuel Iodine Radiation Monitor 2RITS-4806B in the U-2 Control Room will indicate 1.3E5 counts per minute (cpm). This value will indicate that fuel clad degradation is greater than Technical Specification allowable limits. If not already requested, the U-2 Control Room will request that Chemistry perform RCS sampling to determine RCS activity levels.	
		То	Кырактияны ченены э.	Expected Response		
	E	Frem	Evacuation Controller	Event	Release of evacuees back to normal work duties	
Vanable	18	То	Drill Evacuees	Expected Response	Site personnel will evacuate to the west parking lot outside of the MAC8. After accountability is completed, they can be released back into the plant	

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TIME		MES	SAGE#		Comments
~0930	17	From	TSC Lead Controller	Event	Initial Accountability complete
,	6 1 1 1 1 1	Τo	Evacuation Controller	Expected Response	Inform the Evacuation Controller when accountability is complete and that evacuated personnel can return to their normal dulies.
		From		Event	2P-36A charging pump trips due to a failed under-voltage relay.
0930		То	1	Expected Response	
	:	From	NLO Controller	Event	'A' CHARGING PUMP breaker investigation
Variable 0930	20	To	NLO	Expected Response	If Control Room contacts an NLO to investigate A Charging Pump breaker report the following: "The breaker is closed and has local light indication, I see nothing wrong with the breaker." Pump is capable of remote start
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TIME		MES	SAGE#	Comments	
		From	i&C Controller	Event	I&C Investigation of A CHARGING PUMP
Variable	22	То	I&C Tech	Expected Response	Implement corrective actions
		From	Electrical Controller	Event	Electrical Repair team at 'A' Charging Pump Breaker
Variable	21	То	Relay /Electrician	Expected Response	An assessment of the pump breaker will indicate that the relay must be replaced to restore the remote start capability of the pump. Rump is capable of remote start at the breaker
-1 015		From		Event	2000 gpm LOCA on D RCS Cold Leg
		То	200.000	Expected Response	Containment Hi Range Rad Monitors will trend up and Fuel Clad Failure will rise to 3%
-1018	23 5C	From	Chemistry / RP Controller	Event	2TCD-19 rises to 1700 mR/hr
		То	Chemist / HP	Expected Response	Report this reading to the CR and ED
~1018		From	Maintenance Controller	Event	'A' Containment Spray Pump will fail to start on the SIAS actuation
	28	To	Repair team	Expected Response	Control Room will attempt to restart after 'B' spray pump fails. Pump will fail to start. Investigation will reveal that the breaker cam roller has failed and will need to be adjusted. Repair teams will be dispatched

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TIME		MES	SAGE#		Comments	
-1018		From		Event	During SIAS actuation, 2CV-3850-2 receives a closed signal and the cabling for 2CV-3850-2 faults in the CNTMT penetration (2WR-40-2). The 480V MCC breakers (2B-63E1 and 2B-63F2) do not open as designed. The 2B-63 bus will lock out as a result of the breakers not opening. The CNTMT penetration is damaged and is now releasing radiation in the Upper North Electrical Penetration Room. As a result of 2B-63 locking out, the service water valves for the green train containment coolers and the CNTMT coolers 2VSF-1C/D will lose power	
		То		Expected Response	Corrective actions developed/prioritized	
	1	From		Event	After SiAS actuation, the 'B' Spray pump will run for 5 minutes and then fail. An electrical (and possibly mechanical) maintenance team will be dispatched by the OSC to investigate the problem and will determine that the motor needs to be replaced due to shorted motor windings.	
~1020	V	To		Expected Response	Corrective actions developed/implemented.	

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Time	Message #			-	Comments	
		From EOF Lead Controller		Event	GE Declaration	
	:		,	**************************************	The ED will declare a GE based on the following EAL:	
~1030-1040	1	Τσ	Emergency Director	Expected Response	EAL FG1 – Loss of ANY Two Barriers AND Loss or Potential Loss of Third Barrier The EOF ED will direct the EOF Communicator to notify offsite authorities. State and local authorities are advised of the following Protective Action Recommendation (PAR): PAR NO. 1	
-8 , ju .	**************************************			en e e	Evacuate 2-mile radius and 2-5 miles downwind Remainder of the EPZ population to remain indoors	
	25	From	Controller	Event	2B-63 investigation	
Variable		То	NLO/ Repair Team	Expected Response	Investigate and report findings to CR.	
	26	From	Controller	Event	Investigation of UNEPR	
Variable		То	NLO/ Repair Team	Expected Response	Report findings	
* * * J. **		Fnom	Maintenance Controller	Event.	OSC Repair team arrives at UNEPR	
Variable	27	То	Repair Team	Expected Response	Investigate the containment breach. Ensure that radiological controls for drill conditions are followed. Determine if patching the breach is feasible and report findings of investigation	
Varjąblė	**************************************	From	NLO Controller	Event	NLO racking up 4160v breaker in breaker lab after repair of cam roller to simulate repair of Spray pump breaker and its return to service	
		То	NLO	Expected Response		

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TIME	MESSAGE#				Comments	
~104 5-1055	3Ċ	From	EOF Lead Controller	Event	Contingency Message If the EOF ED has not yet declared the GE classification within 15 minutes of meeting the EAL criteria, issue this message.	
		To	ED	Expected Response	Declare a GENERAL EMERGENCY classification.	
Vartable	3.0	From	NLO Confrollers	Event	Investigation of 'B' Containment Spray Pump	
		Ta	NLOs	Expected Response	Testing of motor with required equipment.	
Variable	31	From	Electrical Controller	Event	2B-63 repair	
		To	Electrical Repair Team	Expected Response	Develop and implement corrective actions.	
1000-1400	29	Fram	Fleid Team Controllers	Event	Field Team Controllers will provide offsite radiological data to the Offsite Monitoring Teams per Scenario Book, Appendix E data.	
		То	,Offsite Monitoring Team Personnel	Expected Response	Offsite Monitoring Teams will begin to detect radiological measurements offsite and will provide radiological information to the Offsite Team Coordinator (OTC) located in the EOF. The OTC will communicate field team radiological data to the Dose Assessment Team in the EOF.	

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TIME	MESSAGE #				Comments
	45	From	Lead Drill Controller	Event	Crew attempting to perform a 1 hour shutdown
Variable	4C	To	Control Room Staff	Expected Response	Direct the crew to perform a 2 hour shutdown
1300 - 1315	24	From	Drill Lead Controller	Event	'The drlll is terminated".
	. 32	То	All Facilities	Expected Response	After a short break, facility critiques will begin in each of the Emergency Response Facilities (ERFs).

Unclassified Radiological Emergency Preparedness Program (REP)

After Action Report/Improvement Plan

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