

Federal Emergency Management Agency

Washington, D.C. 20472

DEC -7 1984

MEMORANDUM FOR: Edward L. Jordan, Director Division of Emergency Preparedness and Engineering Response Office of Inspection and Enforcement U.S. Nuclear Regulatory Commission

Hazards

FROM:

Richard W. Krimin Assistant Associate Director Natural and Technological

SUBJECT:

Exercise Report and Schedule of Corrective Actions for the March 21, 1984, Exercise of the Offsite Radiological Emergency Preparedness Plans for the Arkansas Nuclear One Power Station

Attached are two copies of the Exercise Report of the March 21, 1984, joint exercise of the offsite radiological emergency preparedness plans for the Arkansas Nuclear One Power Station. The State of Arkansas and the Counties of Pope, Logan, Johnson, Yell, and Conway participated in the exercise. The exercise report dated August 3, 1984, was prepared by the Federal Emergency Management Agency's Region VI staff.

Also attached is a schedule of corrective actions for the deficiencies identified during the exercise. The corrective actions proposed by the State of Arkansas are appropriate and adequate to address the deficiencies. The State and local plans are adequate to protect the public health and safety and there is reasonable assurance that appropriate protective measures can be taken offsite in the event of a radiological emergency; therefore, the 44 CFR 350 approval will remain in effect.

If you have any questions, please contact Robert S. Wilkerson, Chief, Technological Hazards Division, at 287-0200.

Attachment As Stated

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TABLE 2 Deficiency Tracking and Schedule for Corrective Actions

Deticiencies and PEMA/RAC Recommendations for Corrective Actions	State (S) and Local (L) Proposed Corrective Actions	Proposed Completion Date	FEMA Evaluation of State and Local Corrective Actions and Determination of Adequacy or Inadequacy	Actual Completion Date
CATECORY "A" DEFICIENCIES - NONE				
CATEGORY "B" DEFICIENCIES:				
State Emergency Operations Center - Conway				
1. Description: The Covernor's State of Emergency proclama- tion was not communicated from the State EOC to the TOCC through the proper com- munication channel (NUREG- 0654, 11, A.3).				
Recommendation: The State EOC should promptly communi- cate the notice and details of the Governor's State of Emergency Proclamation through the proper communi- cations channel to TOCC.	State will see that this is done properly at all future exercises.	5/1/85		
fechnical Operations Control Center (TOCC				
 Description: The State EOC was not informed of the General Emergency until one hour and 45 minutes after it occurred (NUREG-0654, II, D.4). 	The AR Dept. of Health will assign a staff member at the TOCC to notify the State EOC at Conway of EAL and PAD info by commercial telephone. Plans being amended to reflect this change.	5/1/85	FEHA will observe again in FY85 exercise.	

Deficiencies and FEMA/RAC Recommendations for Corrective Actions

State (S) and Local (L) **Proposed Corrective Actions**

Proposed Completion Date

FEMA Evaluation of State and Local Corrective Actions and Determination of Adequacy or Inadequacy

Actual Completion Date

Recommendation: The TOCC should promptly inform the State EOC of all emergency status changes.

3. Description: Protective Action Recommendations were not effectively coordinated based on information received (NUREC-0654, II, E.5, E.7). Recommendation: Protection Action Recommendations should be improved by TOCC

to provide for better communications.

4. Description: At the time the TOCC requested evacuation of the London School they did not call the Pope County EOC concerning their actions. Local plans (Sec. VI. B.9) call for the Local EOC to notify schools of potential evacuation after notification of an elert (NUREG-0654, 11, J.10).

A directive was issued at 1300 Closed for cattle in certain areas of Pope County to be placed on

Explanation by State Closed is satisfactory.

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stored feed. At 1415, A recommendation was issued which RELAXED the recommendation made at 1300, but did not RESCIND it. The relaxed recommendation reduced the size of the affected areas in Pope County, but did not eliminate the need to have cattle in some areas of the county placed on stored feed. Apparently, the observer assumed that "relaxed" meant "rescind". That assumption was wrong. The news briefing held at 1510 at the EOF stating that cattle in parts of Pope County were still on stored? feed was, therefore, correct.

See Attachment #1.

3/21/84

We accept your explanation of what and why it happened. Also agree that it is a responsibilty of TOCC to do, but feel since there was some difference in interpretation of the plans by local officials at Pope & Johnson County that the local plans Part VI B.9. should be expanded to say this is to act as a back-up call to the TOCC or something similar.

Deficiencies and FEMA/RAC Recommendations for Corrective Actions

Recommendation: Coordination should be established between TOCC and local EOCs regarding notification of schools. If TOCC is to assume this responsibility, local plans should be revised to reflect that.

Field Monitoring Activities

 Description: Surface contamination smears of soil sample containers were collected improperly; the filter was held with tongs which is an ineffective method. A standard area for wiping was not used (NUREG-0654, 11, 1.8).

> Recommendation: Training should be provided in proper collection of smear samples. The filter should be pressed down firmly on suspected contaminated surface and rubbed hard enough, and over a sufficient area, to pick up sufficient radioactivity to measure. The

This item does not qualify as 5/31 a category "B" deficiency and we request that it be deleted as such. While the method used was inappropriate, the sample container was wiped and the area wiped was at least 100 cm². Furthermore, personnel do know correct wipe procedures and this incident represented a single case of oversight.

5/31/84

FEMA will accept the possibilty of an oversight; however, would like to observe again at next exercise.

P State (S) and Local (L) Co Proposed Corrective Actions

Proposed Completion Date

FEMA Evaluation of State and Local Corrective Actions and Determination of Adequacy or Inadequacy

Actual Completion Date

Deficiencies and FEMA/RAC Recommendations for Corrective Actions

State (S) and Local (L) Proposed Corrective Actions Proposed Completion Date FEMA Evaluation of State and Local Corrective Actions and Determination of Adequacy or Inadequacy

FEMA will accept the

State's response, how-

ever will observe again

Actual Completion Date

area wiped should be a standard area such as 10 cm = 100 cm².

Description: When the util-6. ity failed to provide important data on release rates and stability class, the ADH did not make efforts to require the utility to transmit this data which was needed for their independent dose assessment projections (NUREC-0654, II, J.10). Recommendation: Training should be provided to ADH staff receiving messages to ensure that follow up is made in requiring this information from the utility during transmittal.

7. Description: Iodine measurements were not reported by the field teams for use in supplementing the gamma readings (NUREG-0654, II, I.9). According to our records, page 3/21/84 3 of the EAL was not transmitted during the early part of the exercise. The members of the Arkansas Nuclear Planning

in the FY85 exercise. of the Arkansas Nuclear Planning and Response Staff called the AP&L Duty Emergency Coordinator at least five (5) times to request EAL page 3 information, which includes stability, etc. The utility response was that the information was not available and declined to supply it. It is therefore, completely untrue that the state did not make an attempt to secure this information. The State of Arkansas trains all personnel who will deal with the EAL transmittal forms, to include local government. on After activation at the TOCC, in a real emergency or during an exercise, reception of EAL transmittal information is assigned to a message clerk. This person is instructed to require that all information specified by the class of emergency involved is received. However, this message clerk is not of supervisory level. It is the cierk's duty to inform a supervisor that full EAL information is not being received. This supervisor has the authority to communicate with management level at the plant to request correction of the problem. This was done in this case several times. Training of personnel who deal with EALs will continue.

Procedures and associated 5/1/85 report forms have been for-

mulated for making iodine measurements in the field by field teams. The field team members have been trained in these procedures and the use of the forms. Also, a more sensitive analysis of iodine concentrations on the filters is possible at the TOCC. In either or both cases, the data will be given to the Dose Assessment Officer for conversion to dose rates and comparison to values calculated from information supplied by the utility. The data will then be given to the Accident Assessment Officer for use in formulating PAD recommendations This will be exercised in the 1985 exercise

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(NUREG-0654, 11, K.5.b).

and decontamination proce-

dures for vehicles should be

85

Monitoring

necessary

Recommendation:

included

requirements.

State and Local **Corrective Actions** Actual Deficiencies and FEMA/RAC Proposed Completion Completion Recommendations for State (S) and Local (L) and Determination of Adequacy or Inadequacy Corrective Actions **Proposed Corrective Actions** Date Date Recommendation: Indine measurements should be reported so that thyroid dose projections can be made. 8. Description: The decision Protective Action Recom-5/1/85 for reentry was not based on mendations regarding reentry evaluation of field sample will be formulated as a result of field data analyses, which support the decision results (NUREG-0654, 11, to re-enter. This will be exercised in the 1985 exercise. M.1). Recommendation: Protective action recommendations of reentry should be based on field data which supports that decision. Pope County Medical Support - Pope County Members of the Pope County 5/1/85 FEMA disagrees and believes Ambulance Service Ambulance Service are fully the ambulance company should trained in monitoring and deshow decontamination procedures 9. Description: The ambulance contamination procedures. at future exercise. This item was not monitored for decon-Training is provided by Arkansas will be observed again at next exercise. Nuclear Planning and Response tamination measures used after removal of the patient and Arkansas Nuclear One.

> In this case a utility Health Physicist accompanied the Ambulance crew whose job is to inform the crew on contamination matters. It is evident in this case there was no need to monitor the vehicles for contamination since the ambulance was not contaminated. However, should there be a need for monitoring the subsequent decontamination the ambulance crew was fully qualified to accomplish this task.

FEMA Evaluation of

Deficiencies and FEMA/RAC Recommendations for Corrective Actions

Johnson County Emergency Operations Center

 Description: Staff mobilization and call up were not demonstrated. All staff used were on hand prior to beginning of exercise. No simulation of call up was made after receiving notice by AP&L of an alert (NUREG-0654, II, E.2).

Recommendation: Demonstrate capability to call up staff for mobilization and activation of EOC at proper time in a real emergency.

Description: The Reception 11. Knoxville Center and Schools were not contacted (or simulated) by the Johnson County EOC at the Alert stage as called for in the Coordination of plan. school evacuation between TOCC, and Johnson ADH. County was not demonstrated

State (S) and Local (L) Proposed Corrective Actions

Local Director advises

were at his EOC and he

activate the Center.

Reception Center managers

advised them verbally to

Proposed Completion Date FEMA Evaluation of State and Local Corrective Actions and Determination of Adequacy or Inadequacy

Actual Completion Date

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Local government disagrees 5/1/85 with the Federal observer that this was not done, however, will demonstrate again in the 1985 exercise.

3/21/84

FEMA will accept the 3/21/84 fact the Care Center managers were at EOC and received notification to activate center, however, if this is the way it will be done in future we suggest you update your plans to state this.

Deficiencies and FEMA/RAC Recommendations for Corrective Actions

State (S) and Local (L) **Proposed Corrective Actions**

Proposed Completion Date

FEMA Evaluation of State and Local Corrective Actions and Determination of Adequacy or Inadequacy

Actual Completion Date

or simulated. After notification by TOCC that sectors 14 and 15 were being evacuated, the County did simulate sending four buses from Lamar to transport students. (NUREC-0654, II, H.4).

Recommendation: Follow procedures established in plan for placing school on standby and for contacting Care Center at Alert stage.

Johnson County Hospital

12. Description: Johnson County Hospital which had an objective for this exercise to test capability to receive and process contaminated persons, did not participate in the exercise (NUREG-0654, II, L.1). Involve Recommendation: the Johnson County Hospital in a full participation role with scenario activities to test their capabilities.

A decision will be made as to what level of participation Johnson County Hospital will be used. If decide to continue to use them they will participate in next exerise.

5/1/85

Deficiencies and FEMA/RAC Recommendations for Corrective Actions

Logan County Emergency Operations Center

- 13. Description: Mobilization of the Logan County EOC was not demonstrated or sinulated. Only two individuals manned the EOC. No call up of staff was demonsimulated strated or (NUREC-0654, 11, E.2). Recommendation: Future exercise should require the full activation (by demonstration or simulation) of the Logan County EOC.
- 14. Description: Maps were not available showing evacuarelocation tion routes. centers. shelter areas. population distribution or preselected radiological monitoring sampling and points (NUREC-0654, II. J.10.a.b). Recommendation: Appro-

priate maps should be prepared and either placed on walls or made available on tables at the EOC. State (S) and Local (L) Proposed Corrective Actions Proposed Completion Date

5/1/85

FEMA Evaluation of State and Local Corrective Actions and Determination of Adequacy or Inadequacy

Actual Completion Date

Logan County Director disagrees, stated he had notified on standby the fire department, care center managers and three sheriff deputies. Also, said the scenario only called for limited participation. Will do again in next exercise.

Logan County Director and State officials advised all of the maps were in plain site hanging on the walls. Doesn't understand how ob-

server missed them.

3/21/84

FEMA will observe again in future exercises.

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3/21/84

Re	ciencies and FEMA/RAC commendations for prrective Actions	State (S) and Local (L) Proposed Corrective Actions	Proposed Completion Date	FEMA Evaluation of State and Local Corrective Actions and Determination of Adequacy or Inadequacy	Actual Completion Date
obj Cou bil ces son	cription: It was an ective to test the Yell nty's Hospital capa- ity to receive and pro- s contaminated per- s. This was not constrated (NUREC-0654,	Due to problems that sur- faced after this objective was formulated and sent for- ward, the hospital was unable to participate in the REX-84.	5/1/85		
Rec for hos of	L.1). <u>ommendation</u> : Provide participation of the pital in a full exercise their response abilities.	The Danville Hospital will be exercised in the 1985 exercise. Completion date for this item is May 1, 1985.			



NUCLEAR PLANNING & RESPONSE PROGRAM

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TABLE 2, ITEM 4

ATTACHMENT # 1

According to the REX-'84 scenario, the utility was to have declared a general emergency at 10:10 a.m. However, this did not occur. The actual declaration was made at 11:30 a.m. - 1 hour and 20 minutes late.

Arrangements had been made ahead of time to allow for evacuation of the London School on the following basis. Principal, Tom Doan was informed by scenario committee members that a general emergency would occur at 10:10. This would result in an ENS message being sent to him no later than 10:30 requesting the evacuation of his school to Hector. He was told he should arrive no later than 11:15 to allow for monitoring and registration of the children. This would allow them to meet the normal lunch schedule at the Hector school. The prearranged timetable could not be deviated from and still have the children returned to London in time to be taken home on their normal bus route.

Due to the 80 minute slip in the scenario, the London Principal phoned the TOCC and asked why he had not received the ENS message to evacuate. Since the students from the London school were essential to the successful exercising of the Hector Care Center - a major REX- '84 objective - the decision was made to move the students at this time regardless of the status of the scenario. In addition, in order to preserve the integrity of the scenario for local government, and to allow Pope County to carry out their part in the scenario, the decision was made not to violate plans and procedures by informing Pope County of the premature departure of students at Hector. By keeping with this decision, the Arkansas Department of Health carried on as if the students had not been moved. In the proper sequence, notification of London School and Pope County occured as shown in the attached radio logs. A protective Action Directive was made to evacuate the area including the London School, the Arkansas Department of Health notified Pope County of this PAD as evidenced in the attached logs. The statement that Pope County was not notified is false, according to the radio log, at 12:25 hours the Pope County EOC notified the TOCC that evacuation of the 2-mile radius around Arkansas Nuclear had been completed.

Attachment 2 . . . Page 2

> We refer to the suggestion in Table 2, item 4, that the local plans be ammended so that the Arkansas Department of Health and not local schools of EAL and PAD information. We refer to page B-2 of the Pope County Radiological Emergency Plan. This communication flow chart details the redundant system used to notify schools directly through the Early Notification System and for local government to verify this notification by use of commercial telephone. This item is <u>CLOSED</u> as of 3-21-84.