



Federal Emergency Management Agency

Washington, D.C. 20472

JUL 30 1985

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

FROM: *Richard W. Krimm*
Richard W. Krimm
Assistant Associate Director
Office of Natural and Technological
Hazards Programs

SUBJECT: Illinois and Wisconsin Schedule of Corrective Actions for
Deficiencies Identified During the Zion Nuclear Power
Plant (NPP) Offsite Radiological Emergency Preparedness
(REP) Exercise Conducted on March 6, 1985

Attached are the proposed schedules of corrective actions submitted by the States of Illinois and Wisconsin for the deficiencies noted in the Final Report for the Zion Nuclear Power Plant offsite REP Exercise conducted on March 6, 1985. The exercise report was sent to you on May 23, 1985.

One deficiency affecting the public health and safety (Category A) was identified during the course of the exercise. The Category A deficiency (NUREG evaluation criterion J.10.j) for Lake County, Illinois resulted because proper procedures for determining appropriate traffic control measures were not followed and, as a result, a road was allowed to remain open by which the public could have entered the area affected by the plume. To correct this deficiency, Illinois has scheduled training for the Lake County traffic and access control staff for August 21, 1985. This training will include a demonstration by the appropriate staff of their ability to effectively implement procedures relating to traffic and access control. The Federal Emergency Management Agency (FEMA) Region V staff will observe and evaluate the effectiveness of the training.

FEMA Headquarters and Region V staff have reviewed the proposed schedules of corrective actions submitted by Illinois and Wisconsin and found them to be appropriate. However, a final decision cannot be provided until the training scheduled by Illinois for the Lake County traffic and access control staff has been observed and evaluated by FEMA Region V.

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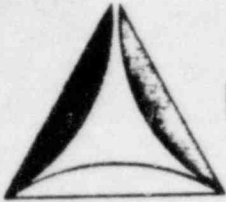
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We will advise you as soon as possible concerning the adequacy of the training to correct the deficiency affecting public health and safety and the status of the approval under FEMA Rule 44 CFR 350.

If you have any questions, please contact Mr. Robert S. Wilkerson, Chief, Technological Hazards Division, at 646-2861.

Attachments
As Stated

JUN 24 1985



Illinois Emergency Services and Disaster Agency

110 East Adams Street, Springfield, Illinois 62706

June 17, 1985

Mr. Wallace Weaver
Chief, Technical Hazards Branch
Region V, Federal Emergency
Management Agency
300 South Wacker Drive
Chicago, IL 60606

Dear Mr. Weaver:

This letter is in response to your letter of May 17, 1985 and the accompanying report of the Zion Nuclear Power Station exercise conducted on March 6, 1985.

Attached is the Proposed Corrective Action Response which indicates the schedule for correcting the deficiencies, as requested in your letter.

Sincerely,

Thomas F. Zimmerman
Chief, Division Planning
and Analysis

cc: Gordon Wenger

UTILITY: Zion Nuclear Power Station

Summary Listing of Deficiencies

Illinois
(State)

March 6, 1985
(Date)

B. Other Deficiencies

Illinois
(Community)

<u>NUREG Item</u>	<u>Narrative Statement of Deficiency</u>	<u>Corrective Action Proposed</u>	<u>Scheduled Date</u>	<u>Actual Date</u>
E.7.	Media briefings and information released at the JPIC did not address the transient population.	Local governments will provide copies of all EBS announcements to the ESDA PIO at the JPIC for dissemination to the media. As the transient population is adequately addressed in the EBS announcements, dissemination of this information to the media during briefings, will properly address the transient population.	Next Exercise	

UTILITY: Zion Nuclear Power Station
Summary Listing of Deficiencies

Illinois
(State)

March 6, 1985
(Date)

A. Deficiencies Affecting Public Health and Safety

Lake County
(Community)

<u>NUREG Item</u>	<u>Narrative Statement of Deficiency</u>	<u>Corrective Action Proposed</u>	<u>Scheduled Date</u>	<u>Actual Date</u>
J.10.j.	The proper procedures for determining appropriate traffic control measures were not followed and, as a result, a road was allowed to remain open by which the public could have entered the area affected by the plume.	The CCC staff responsible for traffic and access control will receive additional training in the area of traffic and access control implementation. This training will include a demonstration by the appropriate CCC staff of their ability to effectively implement the procedures. This activity is currently scheduled for August 21, 1985.	8/21/85	

UTILITY: Zion Nuclear Power Station
Summary Listing of Deficiencies

Illinois
(State)

March 6, 1985
(Date)

B. Other Deficiencies

Lake County
(Community)

NUREG Item	Narrative Statement of Deficiency	Corrective Action Proposed	Scheduled Date	Actual Date
E.7	Media briefings and information released at the JPIC did not address the transient population.	Local governments will provide copies of all EBS announcements to the ESDA PIO at the JPIC for dissemination to the media. As the transient population is adequately addressed in the EBS announcements, dissemination of this information to the media during briefings, will properly address the transient population.	Next Exercise	
G.3.A.	Lake County did not demonstrate its capability for handling the media as described in their plan.	Lake County will demonstrate the capability to activate a media briefing area and provide effective media briefings by the designated spokesperson at the next scheduled exercise.	Next Exercise	
J.10.h.	Evacuees from the Illinois Beach State Park were sheltered in Waukegan instead of a designated congregate care facility outside of the EPZ. (Waukegan)	Prior to the next scheduled exercise, the municipalities within the EPZ will be provided with additional training. The training will emphasize that only temporary staging for evacuation should occur within the EPZ, and that all sheltering activities should take place at designated congregate care facilities.	Next Exercise	



28 JUN 1985

State of Wisconsin
Department of Administration

DIVISION OF EMERGENCY GOVERNMENT

June 25, 1985

4802 Sheldygan Avenue • Madison Wisconsin

Anthony S. Earl
Governor

Doris J. Hanson
Secretary

Mailing Address:
Post Office Box 7865
Madison, WI 53707
Phone 608/266-3232

Mr. Wallace Weaver, Chairman
Regional Assistance Committee
Federal Emergency Management Agency - Region V
300 South Wacker Drive - 24th Floor
Chicago, IL 60606

Dear Mr. Weaver:

This is in response to your letter of May 17, 1985, transmitting the Exercise Report on the March 6, 1985, exercise of the Zion Nuclear Power Station. The schedule of corrective actions for the State of Wisconsin and Kenosha and Walworth Counties is attached.

If you have any further questions regarding this response, please contact either David Speerschneider at (608)266-1899 or Garrett Nielsen at (608)266-3115.

Sincerely,

CAROL Z. HEMERSBACH
Administrator

CZH:seg
Enclosures

cc: Rick Anthony, FEMA, Battle Creek, MI
David Speerschneider
Lawrence J. McDonnell, DHSS
James Malueg, Southeast Area Director
Garrett A. Nielsen
Lawrence C. Reed, III
Doran Hughes, EG Director, Kenosha County
Jan Van Dreser, EG Director, Walworth County
William Brenner, CECO

UTILITY: Zion Nuclear Power Station
Summary Listing of Deficiencies

Wisconsin
(State)

March 6, 1985
(Date)

A. Deficiencies Affecting Public Health and Safety

<u>Wisconsin</u> <u>(Community)</u>	<u>Narrative Statement</u> <u>of Deficiency</u>	<u>Corrective Action</u> <u>Proposed</u>	<u>Scheduled</u> <u>Date</u>	<u>Actual</u> <u>Date</u>
NUREG Item				
None				

UTILITY: Zion Nuclear Power Station
Summary Listing of Deficiencies

Wisconsin
 (State)

March 6, 1985
 (Date)

B. Other Deficiencies

Wisconsin
 (Community)

<u>NUREG Item</u>	<u>Narrative Statement of Deficiency</u>	<u>Corrective Action Proposed</u>	<u>Scheduled Date</u>	<u>Actual Date</u>
A.2.a	There were instances during the exercise when the lack of effective coordination by the EOC staff resulted in the need to issue followup messages from the EOC to rescind or clarify information released earlier. Further, conflicts among EOC staff elements were not always referred to the OIC for resolution.	A joint meeting was held on 5/8/85 between DEG, DHSS, Radiation Protection and the Dept. of Agriculture, Trade and Consumer Protection (DATCP) to discuss the problem. Agreement has been reached on revised procedures to resolve the problem.	5/8/85	
C.1.a	The objective to request federal assistance was not demonstrated during the exercise.	This objective will be demonstrated during the next full-scale exercise which will be with the Point Beach Nuclear Power Plant in September of 1986.	9/9/86	
E.1	The State Highway Patrol's District 2 Office in Waukesha did not provide timely notification of emergency action levels to Walworth County.	Attachment B Warning/Notification of the Plan will be clarified so that the District 2 dispatcher will automatically notify Walworth County of an incident or exercise at the Zion Nuclear Power Station. The District 2 notification SOP's have already been modified to ensure timely notification of Walworth County.	8/85	

UTILITY: Zion Nuclear Power Station
Summary Listing of Deficiencies

Wisconsin
(State)

March 6, 1985
(Date)

B. Other Deficiencies (Contd.)

Wisconsin
(Community)

<u>NUREG Item</u>	<u>Narrative Statement of Deficiency</u>	<u>Corrective Action Proposed</u>	<u>Scheduled Date</u>	<u>Actual Date</u>
I.8	The radiation instrument inventory was insufficient and not all instruments showed evidence of up-to-date calibration. Some field supplies proved ineffective in cold weather. The field monitoring team demonstrated weaknesses in their ability to implement the procedures for obtaining samples.	<p>1) Calibration of field staff equipment is performed on a routine basis as is indicated in the State's Radiological Emergency Response Plan (REPP). Annual calibration of the air samplers used in the Zion Exercise is scheduled for the summer of 1985 and is presently underway. Procedures for the calibration of the Reuter Stokes (RS) pressurized ion chambers are under investigation and development. RS calibration should be completed during the summer of 1985.</p> <p>2) The present instrument inventory of the State's radiological emergency response field kits is deemed to be minimally adequate by the Section. This is not however to say that additional equipment would not be purchased should funding become available.</p> <p>3) Table 3 of NUREG-0654 lists those radionuclides which are considered to be significant contributors to the dominant exposure modes in the plume exposure pathway. None of these</p>		

UTILITY: Zion Nuclear Power Station
Summary Listing of Deficiencies

Wisconsin
(State)

March 6, 1985
(Date)

B. Other Deficiencies (Contd.)

Wisconsin
(Community)

<u>NUREG Item</u>	<u>Narrative Statement of Deficiency</u>	<u>Corrective Action Proposed</u>	<u>Scheduled Date</u>	<u>Actual Date</u>
I.8 (Contd.)		<p>radionuclides decay by alpha radiation. The Section does presently possess alpha radiation detection and measurement equipment but has no immediate plans to include such equipment in the radiological emergency response team's field kit inventory.</p> <p>4) Acquisition of alarming NaI scintillation detectors, by the State, for inclusion in the radiological emergency response team's field kits would be desirable to the Section. However said acquisition is not presently considered to be critical to either the performance or safety of the radiological emergency response teams in their response to a radiological incident. The present equipment inventory of the field kits provides all of the instrumentation necessary to warn the field staff that they are in or passing through a high radiation area. Section plans no corrective actions in this area.</p> <p>5) A review of the currency and cold weather functioning of supplies contained in the radiological emergency response team's field</p>		

UTILITY: Zion Nuclear Power Station
Summary Listing of Deficiencies

Wisconsin
(State)

March 6, 1985
(Date)

B. Other Deficiencies (Contd.)

Wisconsin
(Community)

<u>NUREG</u> <u>Item</u>	<u>Narrative Statement</u> <u>of Deficiency</u>	<u>Corrective Action</u> <u>Proposed</u>	<u>Scheduled</u> <u>Date</u>	<u>Actual</u> <u>Date</u>
I.8 (Contd.)		kits is presently underway by this Section. Those items deemed inappropriate for use in cold weather or beyond current expiration dates will be replaced. This work should be completed by August, 1985. 6) A review of the State's SOP's for sampling will be conducted with the radiological emergency response teams during the 1985 annual training program.		

UTILITY: Zion Nuclear Power Station
Summary Listing of Deficiencies

Wisconsin
(State)

March 6, 1985
(Date)

C. Recommendations

Wisconsin
(Community)

1. Some calculations by the dose assessment staff were not checked by a second independent calculation. An effort should be made to have two individual calculations separately performed and compare results rather than two people working a calculation together.

During future exercises, when dose calculations are made, they will be checked by a second, independent calculation.

2. Protective action recommendations for sheltering animals and placing on stored feed should be given not simply as "place animals on stored feed."

In the future, protective action recommendations will call for sheltering animals and placing them on stored feed.

3. When field team members enter a known contaminated area they should minimally don protective shoe covers and then survey themselves for surface contamination before re-entering the vehicle. Protective gloves should be removed before touching clean equipment in the vehicle.

The State Radiological Coordinator has expressed concern that the donning of protective clothing when levels of contamination are not yet ascertained, particularly in residential areas, may have an alarming effect on the local population which may be of greater importance than the small amount of contamination that may be transferred to the vehicle if such clothing is not worn.

4. The State of Wisconsin should consider distribution of media press kits at the JPIC.

In the future, media information packets will be available for distribution at the JPIC.

5. Re-entry restrictions should be thoroughly explained in the messages sent to local governments.

Re-entry restrictions will be discussed by the Officer-in-Charge, the SRC, and appropriate agency representatives prior to their transmission to local governments so that the local officials can be given all necessary information relating to those restrictions.

6. Future scenarios which include a time jump should also include a description of activities which occurred or were completed during the time jump (e.g. evacuation).

The activities which occurred or were completed during a time jump will be included in future scenarios.

7. Consideration should be given to providing radiological information from the SRC to local governments.

The SRC will provide radiological data to the counties in future exercises.

UTILITY: Zion Nuclear Power Station
Summary Listing of Deficiencies

Wisconsin
(State)

March 6, 1985
(Date)

A. Deficiencies Affecting Public Health and Safety

Kenosha County
(Community)

<u>NUREG</u> <u>Item</u>	<u>Narrative Statement</u> <u>of Deficiency</u>	<u>Corrective Action</u> <u>Proposed</u>	<u>Scheduled</u> <u>Date</u>	<u>Actual</u> <u>Date</u>
None				

UTILITY: Zion Nuclear Power Station
Summary Listing of Deficiencies

Wisconsin
(State)

March 6, 1985
(Date)

B. Other Deficiencies

Kenosha County
(Community)

<u>NUREG Item</u>	<u>Narrative Statement of Deficiency</u>	<u>Corrective Action Proposed</u>	<u>Scheduled Date</u>	<u>Actual Date</u>
E.7	Media briefings and information released at the JPIC did not address the transient population.	The Kenosha County representative at the JPIC will receive copies of all EBS messages in the future and will distribute them to the media as they are disseminated by the PIO in the EOC to the JPIC and radio stations. The messages will contain necessary information as to sectors to be evacuated, population and transients.	1987 Zion Exercise	
K.3.b	Personnel of the County Sheriff's Department and County Highway Department have had no training in dosimetry and emergency worker exposure control.	A program will be arranged with the Radiological Officer to train all personnel from the County Sheriff's Department, City Police Department and County Highway Department on dosimetry and emergency worker exposure control.	1987 Zion Exercise	

UTILITY: Zion Nuclear Power Station
Summary Listing of Deficiencies

Wisconsin
(State)

March 6, 1985
(Date)

C. Recommendations

Kenosha County
(Community)

1. Specific procedures and instruction for EOC staff in the formulation of EBS messages would be useful. A general outline for message preparation could be included in the County Plan.

Procedures and instructions for EOC staff in the formulation of EBS messages will be worked out with State staff and included in the County Plan.

2. Personnel of the County Sheriff's Department and County Highway Department should receive specialized training in preparation for the potential of their participation in an incident involving the Zion Nuclear Power Station.

Sheriff, Police and County Highway personnel will be requested to visit the EOC through their departments for specialized training for participation in an incident at the Zion Nuclear Power Station.

3. Plan procedures for controlled railroad access to the EPZ should be addressed during the next annual training session and identified in the planning process.

Plan procedures for controlled access of CNW railroad trains into the EPZ will be addressed during the next annual training session. A procedure will have to be worked out to stop trains from the north in Racine County and Lake County, Illinois will be responsible for stopping northbound trains.

4. Rosters should be available to the Center Manager if this individual is to be responsible for maintaining continuous operations at the reception/congregate care center.

Will request Social Services and Red Cross Directors to develop rosters of their personnel for the purpose of shift changes at reception/congregate care centers.

5. A multi-copy registration form should be considered for the registration of evacuees.

Red Cross and Social Services Directors will be requested to develop and use multi-copy registration forms for the registration of evacuees.

UTILITY: Zion Nuclear Power Station
Summary Listing of Deficiencies

Wisconsin
(State)

March 6, 1985
(Date)

C. Recommendations (Contd.)

Kenosha County
(Community)

6. The Wheatland Center Grade School is not suited for special needs individuals, therefore a more suitable reception/congregate care center should be designated.

In the future the Wheatland Center Grade School will not be used as congregate care for the handicapped. Arrangements had been made prior to the exercise for the handicapped to come into a side door at the school (parking lot level) directly to the gymnasium for reception. Lunch trays were to be brought to them. For some reason the Red Cross arranged the reception in another location -- the handicapped had to go up about five steps to be registered and go after their meals.

7. Additional training on EPA PAG's for the Radiological staff and inclusion of the EPA PAG's in the County Plan is recommended.

Additional training will be given to the Radiological staff on the EPA PAG's with inclusions added to the County Plan.

8. Future scenarios which include a time jump should also include a description of activities which occurred or were completed during the time jump (e.g. evacuation).

In the future a description of all activities that have taken place during the time jumps will be included in the scenario.

UTILITY: Zion Nuclear Power Station
Summary Listing of Deficiencies

Wisconsin
(State)

March 6, 1985
(Date)

A. Deficiencies Affecting Public Health and Safety

Walworth County
(Community)

<u>NUREG</u> <u>Item</u>	<u>Narrative Statement</u> <u>of Deficiency</u>	<u>Corrective Action</u> <u>Proposed</u>	<u>Scheduled</u> <u>Date</u>	<u>Actual</u> <u>Date</u>
None				

UTILITY: Zion Nuclear Power Station
Summary Listing of Deficiencies

Wisconsin
(State)

" " March 6, 1985
(Date)

B. Other Deficiencies

Walworth County
(Community)

<u>NUREG Item</u>	<u>Narrative Statement of Deficiency</u>	<u>Corrective Action Proposed</u>	<u>Scheduled Date</u>	<u>Actual Date</u>
A.2.a	During periodic EOC staff briefings by agency representatives some pertinent information which would have been beneficial to the overall operation was not discussed.	In the future, agency representatives will be instructed at the pre-exercise briefings that they should include all pertinent information in their periodic reports to the EOC staff during the exercise.	*	
E.7	The messages developed by Walworth County for release to the public through the JPIC were often a repeat of information from other sources, sometimes inaccurately, and did not include relevant information on Walworth County activities.	During future exercises, Walworth County officials will include information and instructions relevant to Walworth County in their messages to the JPIC.	*	

* These deficiencies will be corrected during the next time Walworth County participates, but no later than the next full-participation exercise with the Zion Plant.

UTILITY: Zion Nuclear Power Station
Summary Listing of Deficiencies

March 6, 1985
(Date)

Wisconsin
(State)

C. Recommendations

Walworth County
(Community)

1. The Walworth County EOC should be provided an EPA Population Distribution Map to facilitate their planning for hosting evacuees.

Walworth County will be provided with an EPZ Population Distribution Map.

2. Hard copy capability between the Walworth County EOC and the JPIC should be considered.

Walworth County is considering developing hard copy capability with the JPIC.

3. Walworth County should consider providing a PIO/spokesperson at the JPIC to coordinate the information flow and handle media inquiries.

During future exercises, in which they participate, Walworth County will have a representative at the JPIC. The EOC's new telephone system will allow for direct line communication with the JPIC.