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A. Clegg Crawford
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August 9, 1990
Fort St. Vrain
Unit No. 1
P-90251

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NOTE: This transmittal contains Emergency Preparedness exercise information that should not be released to the Public Document Room before November 12, 1990.

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Docket No. 50-267

SUBJECT: FOSAVEX-90 SCOPE AND OBJECTIVES SUBMITTAL

REFERENCE: NRC Letter, Collins to Lee, dated 2/9/84 (G-84049)

Dear Sirs:

The scope and objectives for the 1990 Fort St. Vrain Radiological Emergency Response Plan (RERP) exercise, entitled FOSAVEX-90 are being submitted via the attachment to this letter. These are being submitted according to the schedule set forth in G-84049 (reference letter) and the new Federal Emergency Management Agency (FEMA) guidelines of 90/60 days. Also, in accordance with FEMA guidelines, submittal of the detailed scenario packages will be made on or before, September 7, 1990.

The exercise, scheduled for the week of November 5, 1990, may include partial participation by State and local governments. Also, the extent of offsite medical facility participation is uncertain at this time. If participation is determined at a later date, objectives will be updated accordingly. The exercises will be initiated during normal working hours (between 0700 hours and 1530 hours, MST) and conclude approximately four to six hours after initiation.

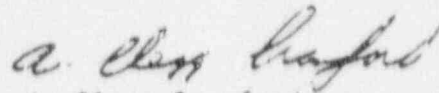
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Your prompt review of the attached material is greatly appreciated. If you have any questions or comments regarding this material, please contact Mr. M. H. Holmes at (303) 480-6960.

Sincerely,



A. Clegg Crawford
Vice President, Nuclear Operations

ACC/rm

Attachment: FOSAVEX-90 Scope and Objectives

cc: Regional Administrator, Region IV
ATTN: Mr. J.B. Baird
Technical Assistant
Division of Reactor Projects
(2 copies)

Mr. D. Garrison
Site Resident Inspector
Fort St. Vrain

Mr. Rick Hatten, Director
Division of Disaster Emergency Services
State of Colorado

SCOPE OF FOSAVEX-90

The 1990 Fort St. Vrain NRC Graded Exercise, known as FOSAVEX-90, will be held on November 7, 1990. FOSAVEX-90 is intended to provide a mechanism by which Public Service Company of Colorado (PSC) can test its Radiological Emergency Response Plan (RERP). Depending upon personnel availability, The State of Colorado and Weld County may participate in FOSAVEX-90. Since the precise level of participation is not known, no specific objectives for the coordination of utility/state/local resources have been established. However, the scenario has been structured to allow for this type of interaction if state/local representation should occur. The extent of offsite medical facility participation is uncertain at this time. If participation is determined at a later date, objectives will be updated accordingly. FOSAVEX-90 will provide the means by which PSC can test its ability to "protect" the health and safety of the general public.

The exercise scenario will depict a series of simulated events which will necessitate a number of specific response actions to be taken by PSC. These response actions are defined in the Fort St. Vrain Radiological Emergency Response Plan and Implementing Procedures, and are intended to safeguard the health and safety of the general public, plant personnel, as well as the environment. The scenario is being planned such that major elements of the FSV RERP Plan and Procedures are tested.

Since, by necessity, certain elements of FOSAVEX-90 are simulated, whenever practicable, the exercise will incorporate provisions for "free play" on the part of the participants. The only restrictions on this concept will be if Player actions would prematurely terminate the Exercise, or would restrict the scenario in such a manner that it would not provide an opportunity for PSC to meet its objectives.

As previously stated, certain elements of FOSAVEX-90 are simulated. Within this attachment is a proposed table depicting which activities are to be simulated and which ones are to actually occur.

Activities associated with FOSAVEX-90 will be observed by qualified controllers, observers and auditors from PSC. The FOSAVEX-90 manual will provide information on how and to what criteria the exercise is to be graded. A critique will be conducted following the exercise. Any deficiencies will be noted, and will form the basis for establishing corrective actions.

SCOPE OF FOSAVEX-90TABLE OF
ACTUAL VS. SIMULATED EVENTS

<u>EVENT</u>	<u>ACTUAL</u>	<u>SIMULATED</u>
1. <u>ACCIDENT ASSESSMENT</u>		
Ability to properly recognize and characterize simulated events.	X	
Perform dose calculations using simulated meteorological and release rate data.	X	
Perform field monitoring - establish radiation levels onsite and offsite.	X	
Perform equipment repair		X
2. <u>ACTIVATION OF EMERGENCY FACILITIES</u>		
Activate and staff all primary Emergency Response Facilities (ERFs).	X	
Establish functional adequacy of ERFs.	X	
Use appropriate equipment and supplies to respond to emergency.	X	

<u>EVENT</u>	<u>ACTUAL</u>	<u>SIMULATED</u>
3. <u>NOTIFICATION AND COMMUNICATION</u>		
Notify Plant, Corporate, Federal, State and Local emergency response personnel.	X	
Conduct follow-up notifications - verify communications.	X	
Communicate with onsite and offsite response teams.	X	
Support "rumor control" activities.	X	(Limited, due to non-participation of state and local personnel.)
Conduct press conferences.		X
Direct notification of persons living on PSC property.		X
4. <u>ORGANIZATION CONTROL</u>		
Activate the PSC emergency response organization	X	
Coordinate with State/Local response organizations.		X
Coordinate with Federal response organizations.		X
Provide management control of the emergency.	X	

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<u>EVENT</u>	<u>ACTUAL</u>	<u>SIMULATED</u>
5. <u>HEALTH PHYSICS/SECURITY</u>		
Receive and analyze field monitoring data.	X	
Provide adequate radiation protection services (dosimetry, monitoring, habitability, etc.).	X	
Conduct a search and rescue operation.	X	
Site evacuation of non-essential personnel.		X
Use of protective clothing.	X	Simulate use outside owner controlled area.
Provide first aid for an injured and contaminated individual.	X	Transportation to hospital may be simulated.
Decontaminate personnel and/or equipment.	X	
Conduct initial accountability.	X	
Maintain onsite accountability.	X	
Maintain plant Security under emergency conditions.	X	
Comply with the Security Plan under ONSITE Radiological Conditions.		X
6. <u>PROTECTIVE ACTIONS</u>		
Assess and recommend protective actions.	X	
Warn/advise onsite personnel about emergency situation.	X	

OBJECTIVES OF FOSAVEX-90

The objectives of the Fort St. Vrain (FSV) 1990 Emergency Preparedness Exercise Program are based on Nuclear Regulatory Commission (NRC) requirements set forth in 10CFR50.47, and 10CFR50 Appendix E. Data provided in NUREG's 0654 (Rev. 1, 0696, and 0737 (Supplement 1) as well as previous FSV exercise results were used in developing the objectives.

The exercise will include the activation of the PSC Emergency Response Facilities. It may also include partial participation by State and Local support groups. The FSV Early Warning Alert (EWA) System within the five mile planning zone will not be activated in association with FOSAVEX-90.

The overall objective of FOSAVEX-90 is to evaluate the effectiveness and capabilities of the FSV Emergency Preparedness Program. The scenario is structured to provide a mechanism which will accurately test the adequacy of both the onsite and offsite elements of the Emergency Preparedness Program.

Another objective of FOSAVEX-90 is to demonstrate the ability of the Observers/Controllers and Auditors to conduct an exercise, and evaluate the response of the FSV Emergency Response Organization. At the conclusion of the exercise, a critique will be held to evaluate the various activities of FOSAVEX-90. Accordingly, another objective of this process is to demonstrate the ability to conduct an effective self evaluation of the exercise.

Public Service Company of Colorado has established the following objectives for FOSAVEX-90:

ACCIDENT ASSESSMENT

1. Demonstrate proficiency in recognizing and classifying emergency conditions according to pre-established Emergency Action Levels (EALs).
2. Demonstrate the ability to perform dose calculations using radiological and meteorological information to establish the impact to the environment.
3. Demonstrate the effectiveness of the radiological monitoring teams (onsite and offsite) to establish radiation levels and to effectively track the plume.

ACTIVATION OF EMERGENCY FACILITIES

1. Demonstrate the ability of station and corporate personnel to activate and staff the primary emergency response facilities within 90 minutes of a declaration of an ALERT or higher emergency classification during normal working hours (0700 hours to 1530 hours).
2. Demonstrate the transition of responsibilities between emergency facilities as a result of escalating accident classifications.
3. Demonstrate the functional capabilities of equipment (including status boards, radiation monitoring equipment, etc.) in the Personnel Control Center, Technical Support Center, Forward Command Post, State Emergency Operations Center, and the Executive Command Post.
4. Demonstrate the ability of the Emergency Coordinator to properly select the correct location for the Personnel Control Center.

NOTIFICATION AND COMMUNICATION

1. Demonstrate the effective notification of Plant, Corporate, Federal, State and Local emergency response personnel.
2. Demonstrate that initial notifications (and follow-up) are verified and logged.
3. Demonstrate the effectiveness and reliability of the emergency communications equipment.
4. Demonstrate the ability to communicate with inplant monitoring teams, search and rescue teams, and other station personnel as needed.
5. Demonstrate the ability to communicate with the offsite radiological monitoring teams.
6. Demonstrate the capability to obtain, coordinate and assemble emergency information for timely dissemination to the public via the media (actual press releases will be simulated).
7. Demonstrate the ability of PSC to respond directly to simulated input from the public concerning "real" vs. "rumored" events.

ORGANIZATIONAL CONTROL

1. Demonstrate the capability to technically evaluate accident conditions and implement appropriate response procedures.
2. Demonstrate the ability of the Control Room Director, TSC Director, PCC Director, and the Corporate Emergency Director to manage and/or support the emergency organization in accordance with the FSV Emergency Plan and Implementing Procedures.
3. Demonstrate the ability of FSV emergency organization personnel to properly brief Search and Rescue, Fire Brigade, Corrective Action Teams and other response personnel of the emergency situation.
4. Demonstrate the ability to coordinate activities with FSV outside support groups in responding to the emergency, as necessary.
5. Demonstrate the ability of the PSC response organization to follow established procedures.

HEALTH PHYSICS/SECURITY

1. Demonstrate the ability to perform and maintain site accountability and simulate site evacuation, as appropriate.
2. Demonstrate the ability to provide adequate radiation protection services such as dosimetry, personnel monitoring, and habitability determinations onsite and offsite.
3. Demonstrate the ability to perform area surveys under emergency conditions.
4. Demonstrate the ability to monitor and control emergency worker exposure (i.e. various teams) within the plant.
5. Demonstrate the ability to decontaminate personnel as needed.
6. Demonstrate the ability to provide onsite first aid for an injured individual who has been contaminated. (Transportation to the offsite medical facility may be simulated).
7. Demonstrate the capability of offsite radiological monitoring teams to perform radiation monitoring and to collect samples.
8. Demonstrate the ability to maintain plant security under emergency conditions.
9. Demonstrate the ability to conduct timely dose projections in accordance with established RERP Procedures.
10. Demonstrate the ability of the Security force to comply with the Security Plan under onsite radiological conditions.

PROTECTIVE ACTIONS

1. Demonstrate knowledge of the Protective Action Guides (PAGs).
2. Demonstrate the ability to make protective action recommendations to offsite authorities.