

WEST VALLEY DEMONSTRATION PROJECT

EMERGENCY EXERCISE

DECEMBER, 1990

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Coordinator Date

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Radiation and Safety Date
West Valley Nuclear Services Co., Inc.

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This Exercise Manual has been reviewed and supported by the Exercise Committee members.

T. M. Conlin	Radiation and Safety
R. D. Love	Security
R. E. Estep	Radiation and Safety
D. G. Feldman	Waste Operations
D. T. Kasper	Community Relations
R. A. Gonzalez	Radiation and Safety
J. F. Miller	Site Support
M. F. Schmitz	Radiation and Safety
R. B. Provencher	West Valley Project Office
J. E. Tangelder	Radiation and Safety
J. M. Vann	Radiation and Safety
D. P. Wilcox	Safety & Environmental Assessment

SECTION 1

OVERVIEW

A. ABSTRACT

An emergency preparedness exercise for the West Valley Demonstration Project will be conducted on December 19, 1990, at approximately 1400 hours to test the effectiveness of the Emergency Plan and Implementing Procedures, determine the time to completely activate the Emergency Response Teams, evaluate Emergency Response Teams response, and assess the capability of the back-up communication system.

The exercise will be conducted during normal working hours and will simulate a fire in the NDA followed by total loss of normal off-site communications back-up capabilities. The exercise will involve participation of Plant System Operations Department, Waste Management Operations, Radiation and Safety Department, Safety and Environmental Department, Security Department, the Emergency Operations Center staff, and partial participation of off-site agencies.

B. PARTICIPATION

ON-SITE RESPONSE

1. Plant System Operations
2. Waste Management Operations
3. Radiation and Safety
4. Safety and Environmental
5. Security Force
6. Emergency Operations Center Staff

OFF-SITE RESPONSE

1. DOE-ID Warning Communication Center (Notified; participating).
2. DOE-ID Emergency Operations Center (Notified; participating).
3. Cattaraugus County Emergency Operations Center (Notified; participating).
4. New York State Emergency Management Organization (Notified; participating).
5. Cattaraugus County Sheriff's Department (Notified; participating).
6. West Valley Volunteer Fire Department (Notified; participating).
7. Erie County EOC (Notified; participating).
8. DOE HQ EOC (Notified; participating).
9. EPA National Response Center (Notified; participating).
10. NRC (Notified; participating).
11. Regional II EPA ERT (Notified; participating).
12. Westinghouse Corporation Emergency Management Organization (Notified; participating).

C. EXERCISE OBJECTIVES

ON-SITE EXERCISE OBJECTIVES

EOC

1. Demonstrate the ability to activate the Emergency Response Organization (EOC Staff, Emergency Response Teams) and the Emergency Response Facilities by mobilizing each element of the Emergency Response Organization.
2. Demonstrate the ability to assess the emergency condition, by classifying the emergency condition on a timely basis, and determine on-site protective actions.
3. Demonstrate the technique to notify off-site agencies in accordance with the emergency classification, maintaining off-site agencies informed of the status of the emergency at all times and recommend any protective actions if required.
4. Demonstrate the technique to notify the WCC-ID by maintaining an open line with the WCC-ID at all times during the emergency.
5. Demonstrate the ability of the Community Relations Department in briefing the news media formulating and coordinating information to the public (simulated).
6. Evaluate the methodology used during the recovery phase.

ON-SCENE COMMAND GROUP

1. Demonstrate the ability of the Plant System Operations Shift Supervisor to notify the affected system Operations Manager.
2. Demonstrate the ability of the On-Scene Command Group (Fire Brigade, Emergency Response Teams, On-Scene Commander) in assessing the emergency situation and directing emergency response actions to mitigate the emergency condition.
3. Demonstrate the ability of the Environmental Monitoring Team and the Radiological Control Team to assess the situation by evaluating sampling techniques, location and time of samples, types of samples, surveys, etc.

OFF-SITE EXERCISE OBJECTIVES

WEST VALLEY VOLUNTEER FIRE DEPARTMENT

1. Demonstrate the ability to interface with WVDP by mobilizing the WVFD to support the emergency condition.
2. Evaluate the WVFD time response and the ability to coordinate mitigating actions with the WVDP On-Scene Commander at the scene.

CATTARAUGUS COUNTY

1. Demonstrate the ability to interface with West Valley Demonstration Project (WVDP) by being able to receive and process emergency notification from WVDP, confirm the notification with WVDP-EOC and make appropriate notifications.
2. Demonstrate the ability to communicate with all appropriate locations, organizations and field personnel.
3. Demonstrate the County's ability to make appropriate notifications and the adequacy of the 24-hour notification point.

ERIE COUNTY

1. Demonstrate the ability to interface with West Valley Demonstration Project (WVDP) and Cattaraugus County by making appropriate notifications and coordinating all emergency support activities.
2. Demonstrate the ability to communicate with all appropriate locations and organizations, and the adequacy of the County's 24-hour notification point.

D. CONTROL OF EXERCISE

The exercise will be conducted during normal working hours. All personnel should follow their normal duties prior to the exercise events until the initiation of the exercise which will preclude activation of the Emergency Plan and Implementing Procedures. The extent of the on-site participation has been based on the players, controllers, and evaluators as described below:

Players (participants), members of the WVDP Emergency Response Organization and off-site organizations. They are responsible for mitigating the consequences of the simulated emergency and determining protective actions for all on-site personnel and public.

Controllers, designated personnel responsible to control the flow of the exercise scenario by providing data to players. They also have the responsibility to prompt the players on any actions that adversely affect the safety of the plant or any actions that would interrupt the flow of the exercise scenario. Controllers are the only personnel authorized to provide information to the players; other input of information from personnel other than controllers will be ignored by the participants. Controllers may also serve as evaluators.

Evaluators, designated personnel from WVDP responsible to observe and evaluate the total response to the exercise by assessing response and immediate action taken in mitigating and carrying out their responsibilities.

CONTROLLERS/EVALUATORS ASSIGNMENTS

CONTROLLER ASSIGNMENTS

<u>Controller No.</u>	<u>Location</u>	<u>Name/Department</u>
Controller No. 1	Accident Scene	M. F. Schmitz J. E. Tangelder WVNS-R/S
Controller No. 2	Waste Management Supervisor Plant System Ops. Shift Supervisor	D. G. Feldman WVNS-Waste Mngt K. C. Vosseller Training
Controller No. 3	Rad. Control Team	T. M. Conlin WVNS-R/S
Controller No. 4	Rad. Control Supervisor	G. H. Metzler WVNS-R/S
Controller No. 5	Environmental Team	D. P. Wilcox WVNS-S/EA
Controller No. 6	Environmental Team Leader	J. P. Griffin WVNS-R/S
Controller No. 7	Security Shift Supervisor	R. D. Love WVNS-Security
Controller No. 8	Search/Re-entry Team-HazMat	R. E. Estep WVNS-R/S
*Controller No. 9	EOC- Overall WVNS	R. A. Gonzalez D. J. Harward WVNS-R/S
Controller No. 10	EOC- Notifications	J. F. Miller WVNS-Site Support
Controller No. 11	EOC/Community Relations	J. M. Vann WVNS-R/S

* Exercise Coordinator

D. J. Kasper - Video

R. A. Grant - Photographer

EVALUATOR ASSIGNMENTS

<u>Name</u>	<u>Location</u>	<u>Responsibility</u>
D. G. Feldman	PSO Office/NDA	Waste Operations Shift Supervisor
K. C. Vosseller	PSO Office	PSO Shift Supervisor
M. F. Schmitz	Accident Scene/NDA	Fire Brigade
R. E. Estep	PSO Office	Search/Re-entry Team
T. M. Conlin	R/S Supervisor Office	Radiological Control Team
D. P. Wilcox	Environmental Lab	Environmental Monitoring Team
W. J. Czyz	Main Gate	Security Force
D. J. Harward	EOC	EOC staff
R. A. Gonzalez	EOC	EOC staff
J. M. Vann	EOC	EOC-Community Relations

EXERCISE PRECAUTIONS

1. Controllers will be used in areas of concern to the exercise to assure proper exercise control.
2. Controllers information/data sheets and messages will be used to provide proper exercise data and information by the controllers.
3. The preset fire scene will be cleared of tools, scrap, and any combustible materials.
4. Smoke bombs or generators will be used to simulate the fire.
5. No personnel will be allowed to violate radiological or standard safety requirements.
6. No simulation is allowed except as specified in the exercise scenario or, if in the opinion of the controller, actual performance of the action will result in violating WVDP requirements.
7. If an actual emergency occurs during the conduct of the exercise, the exercise should be terminated immediately and the Emergency Response Organization activated to mitigate the actual emergency.

ASSUMPTIONS

1. Emergency Classification shall not be less than an ALERT.
2. All emergency response teams (Fire Brigade, Radiological Control Team, Environmental Monitoring Team, Search and Re-entry) will be played, not simulated.
3. Meteorological data will be used.
4. All responses will occur with real-time activities and responses.
5. Off-site agencies will be notified and participating.
6. The exercise will be allowed to continue until the entire recovery phase (short-term and long-term plans) is formulated.

SECTION 2

SCENARIO AND TIMELINE

A. EVENT DESCRIPTION

Weather reports warn of an approaching front accompanied by high winds and thunderstorms. Three minutes after this warning, a fire develops in the Speed Space trailer as a result of a heater being left on. The Speed Space is engulfed in flames as winds begin increasing in intensity. Twenty minutes later lightning strikes the NDA knocking out all communication lines and starting a fire in the NDA. High winds cause the fire to spread rapidly with the potential for a fire to be developed at the tent containing mixed waste.

The exercise will be initiated by Controller No. 7 notifying the Security Shift Supervisor of warning from the weather bureau of high winds and thunderstorms approaching the area and followed by Controller No. 1 and Controller No. 2 starting the smoke generator and activating smoke bombs outside the speed space trailer.

EXERCISE TERMINATION

The exercise will be terminated when:

1. All immediate actions to control and mitigate the consequences of the emergency situation have been completed.
2. A recovery plan has been developed and methodology to implement the plan described.
3. If an actual emergency occurs during the conduct of the exercise.
4. The exercise should last approximately 2-1/2 hours.
5. The Exercise Coordinator determines that no further benefits will occur from continuing the exercise.
6. Notice of exercise termination will come from the exercise coordinator.

ANTICIPATED SUMMARY OF KEY EVENTS

<u>Time</u>	<u>Event Summary</u>
T - 3 minutes	Weather conditions in the immediate area of West Valley: predicting high winds up to 65 miles/hour and heavy thunderstorms within the next few hours.
T + 0	Plant Operations are in their normal operating mode. Announcement over the "All Page" that a fire has started in the Speed Space.
T + 3 minutes	WVVFDD notified. On-Scene Commander (MPOSS) notification to Waste Management Operations Manager. Emergency Response Teams activated.
T + 5 minutes	It is reported that the fire in the Speed Space is due to an overturned heater. Winds are picking up and the fire is increasing in intensity. Waste Management Operations Manager notification to Emergency Director. Emergency Director notification to Project Director.
T + 6-8 minutes	An ALERT condition declared. EOC activation.
T + 9-10 minutes	Radiological Control Team and Environmental Monitoring Team activated by the team leader.
T + 10-12 minutes	On-Scene Commander and Fire Brigade arrives at scene. Emergency vehicle dispatched to NDA to determine extent of fire. First EOC responder. Environmental Monitoring Team and Radiological Control Team arrival at the scene.
T + 13-14 minutes	WCC-ID notified.
T + 20 minutes	Lightning hits the NDA building. All communications lines are knocked out. A fire begins. Total loss of off-site communications system.
T + 23 minutes	DOE HQ-EOC notified.
T + 45 minutes	WVVFDD arrives on-site. EOC operational.

TimeEvent Summary

T + 55 minutes	Radiation measurements taken downwind of NDA. Environmental samples taken.
T + 60 minutes	Notification of offsite authorities concerning fire/releases.
T + 1 hr 10 minutes	Fire under control.
T + 1 hr 40 minutes	Communications established.
T + 2 hr 30 minutes	Recovery plans - short term completed.
T + 2 hr 30 minutes	Recovery plans - long term completed. Exercise terminated

E. DATA SHEETS

DATA SHEET NO. 1

HAZARDOUS WASTE INFORMATION

Combustion By-Products

Carbon Monoxide	Level of Concern - IDLH 1500 ppm
Ammonia	Level of Concern - IDLH 500 ppm
Bromine	Level of Concern - IDLH 10 ppm
Mercury	Level of Concern - IDLH 28 mg/m ³

Re-Entry Concerns

- Oxygen Deficiencies <19.5%
- Mercury 0.1 mg/m³ ceiling, 0.05 mg/m³ TLV
- Combustion Products (ammonia, bromine, carbon monoxide)
- Lower Explosive Limits

Hazardous waste concentrations inside building as fire progresses

	<u>Ammonia</u>	<u>Bromine</u>	<u>Mercury</u>
T ₀	0 ppm	0 ppm	0 mg/m ³
T ₁₀	5,590 ppm	3,730 ppm	940 mg/m ³
T ₂₀	12,460 ppm	8,300 ppm	2,190 mg/m ³
T ₃₀	20,600 ppm	13,730 ppm	3,660 ppm

Reentry Levels

T ₉₀	1,000 ppm	85 ppm	280 mg/m ³
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Other

LEL - 0%

Oxygen = 17.5%

Carbon monoxide = 200 ppm

DATA SHEET NO. 2

RADIOLOGICAL DATA

- Upon direct reading and smear surveys

1. Direct reading of affected area

500 cpm/25 cm² with pancake GM/model-32 - beta-gamma

2. Any smear surveys

5,000 dpm/100 cm² - beta

5,000 dpm/100 cm² - alpha

3. Personnel contamination

If personnel enter contaminated area (as observed by controller)
above contamination levels would be expected.

DATA SHEET NO. 3

METEOROLOGICAL DATA

Simulated meteorological data will be used.

- a - Wind Speed - 65 miles per hour
- b - Stability Class
- c - Precipitation
- d - Wind Direction - real data
- e - Release Duration - 1-1/2 hour
- f - Release Height - ground

DATA SHEET NO. 4

ENVIRONMENTAL DATA

RADIOLOGICAL

- o All samples of survey results are - as per Data Sheet No. 2

HAZARDOUS MATERIAL

- After Fire

- o Quantity Released > Level of Concern

AREAS AROUND THE NDA

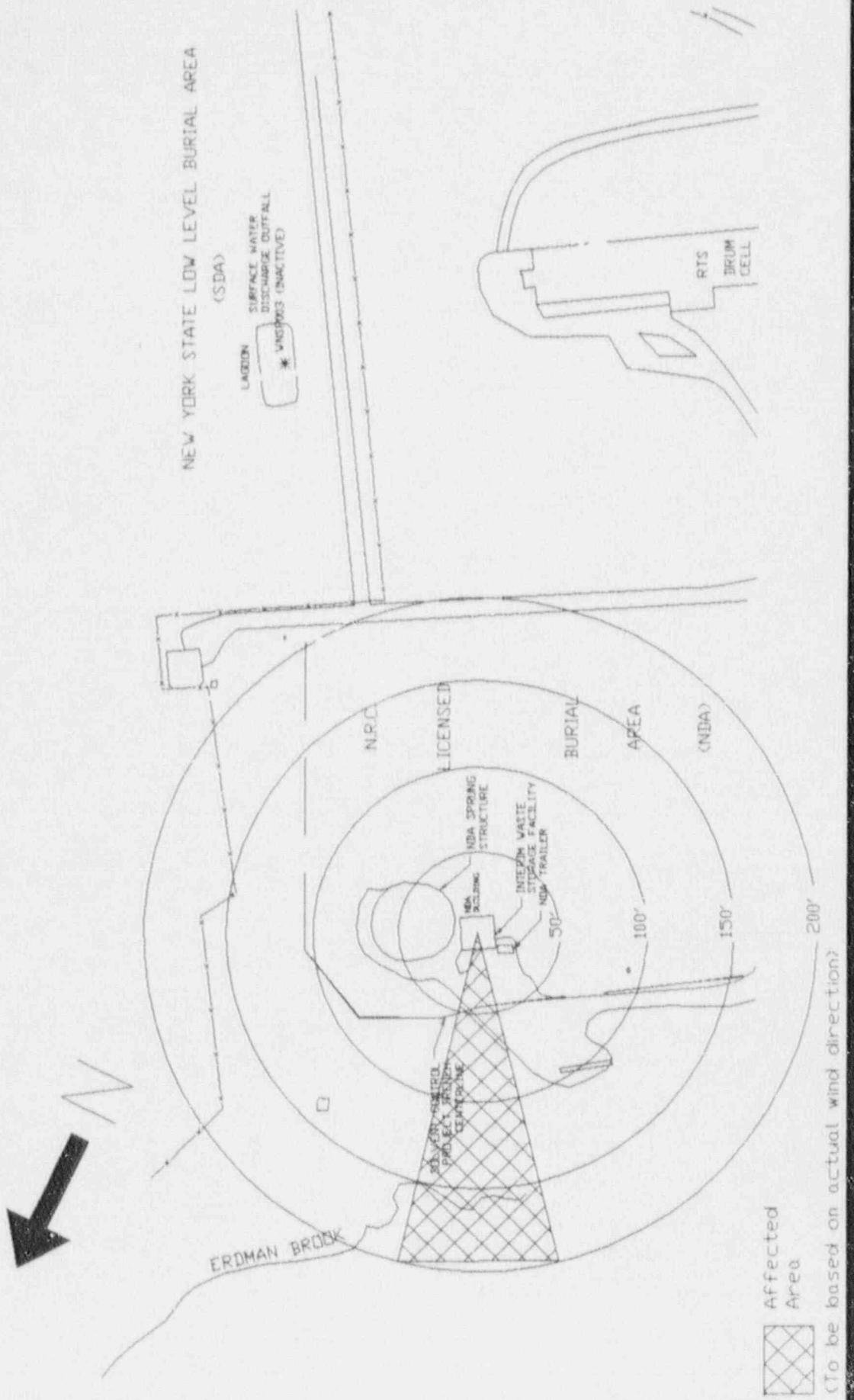
Time


Airborne

Refer to Data Sheet No. 1 for estimated levels

F. OTHER (MAPS, DRAWINGS)

DISPERSAL AREA FOR NDA RADIOLOGICAL RELEASE



 Affected Area
 (To be based on actual wind direction)

SECTION 3

A. CONTROLLER RESPONSIBILITIES AND INSTRUCTIONS

CONTROLLER RESPONSIBILITIES AND PRECAUTIONS

1. Report to your assigned exercise location as per your instruction sheet.
2. Do not allow any personnel to violate radiologic-1 and safety requirements in response to this exercise.
3. No simulation is allowed except as specified in the exercise scenario or, in your opinion, actual performance of the action would result in violating WVDP requirements.
4. The exercise scenario is strictly confidential and controlled. Do not tell players (participants) exercise information. The players must actually perform the action (response) that would result in the data before it is given to them, just clarify the situation if required.
5. Prompt players, if necessary, to ensure the exercise progresses in the proper direction. Record these promptings for inclusion in the exercise evaluation report.
6. Do not enter into personal conversation with the players.
7. In the event of an actual emergency during the exercise, the Emergency Director will terminate the exercise. At no time will site safety be degraded for this exercise.

8. NOTES: All radio and telephone communication shall begin and end with the statement ***THIS IS AN EXERCISE.*** This statement shall also be interjected at appropriate places during lengthy communications.
9. Report to the Exercise Critique Session as scheduled.
10. Return your event chronology and comments sheet to Radiation and Safety Department within three days of conductance of the exercise.

CONTROLLER INSTRUCTIONS

CONTROLLER NO. 1A, 1B

CONTROLLER LOCATION: Accident Scene/NDA

CONTROLLER NAME: M. F. Schmitz/J. E. Tangelder

INSTRUCTIONS:

- o At approximately 1/2 hour prior to the initiation of the exercise,
 - Obtain one of the government vehicles.
 - Proceed to the accident scene.
 - Make sure the fire scene surroundings are cleared of trash, scrap, and any combustible materials.
 - Prepare the smoke generator outside the speed trailer in the NDA area.
 - Arrange the smoke bombs in series and locate them in a metal bucket outside the building.
- o At approximately 1400 hours, start the simulated fire by activating the smoke bombs and the smoke generator. Let generation of smoke to continue for at least one hour.
 - Notify Security by radio of a fire in the NDA area.

NOTE: If smoke bombs and the smoke generator are not used to simulate the fire, initiate the exercise by radio notification to Security of a fire in the NDA area. "Attention All Personnel:" This is an exercise. There is a fire in the NDA area. Activate Fire Brigade.

- o Monitor the fire scene. Observe and record events as they progress during the exercise as per attached Chronology of Major Events form.
 - Fire Brigade actions
 - Response time
 - Given priorities

NOTE: If radio communications are used, instruct the user to use "This is An Exercise" prior to making any report to the EOC or communicating with other personnel.

CHRONOLOGY OF MAJOR EVENTS

TIME	EVENT

CONTROLLER INSTRUCTIONS

CONTROLLER NO. 2A

CONTROLLER LOCATION: PSO Office/NDA

CONTROLLER NAME: D. G. Feldman

INSTRUCTIONS:

- o At approximately 10 minutes prior to the initiation of the exercise, proceed to the MPOSS office and locate the Shift Supervisor.
 - o At time 1347 hours, observe the following:
 - Security notification to SS of weather conditions warning:
 - 1- High winds up to 65 miles/hr
 - 2- Heavy thunderstorms within the next few hours
 - o At time 1400 hours, initiation of the fire
 - MPOSS notification to the Affected System Shift Supervisor
 - Upon arrival at the scene, give results as per Data Sheets. DO NOT volunteer any information or data unless the "On-Scene Commander" actually performs the actions that would result in him knowing it, such as:
 - Type of hazardous materials
 - Meteorological conditions
 - Radiological Conditions
 - Security notification to the WVVFD will be simulated.
- NOTE 1: "On-Scene Commander" will be the MPOSS for the initial phase of emergency until relieved by the Affected System Shift Supervisor.
- NOTE 2: All radio and telephone communications should start and end with the statement, "THIS IS AN EXERCISE." This statement should be interjected at several places during lengthy communications.
- o Observe turn-over of responsibilities from the MPOSS to the Affected Area SS (if applicable).
 - o Record events as they progress during the exercise as per attached Chronology of Major Events form.

CHRONOLOGY OF MAJOR EVENTS

TIME	EVENT

CONTROLLER INSTRUCTIONS

CONTROLLER NO. 2B

CONTROLLER LOCATION: PSO Office

CONTROLLER NAME: K. C. Vosseller

INSTRUCTIONS:

- o At approximately 10 minutes prior to the initiation of the exercise, proceed to the MPOSS office and locate the Shift Supervisor.
 - o At time 1347 hours, observe the following:
 - Security notification to SS of weather conditions warning:
 - 1- High winds up to 65 miles/hr
 - 2- Heavy thunderstorms within the next few hours
 - o At time 1400 hours, initiation of the fire
 - MPOSS notification to the Affected System Shift Supervisor
 - Upon arrival at the scene, give results as per Data Sheets. DO NOT volunteer any information or data unless the "On-Scene Commander" actually performs the actions that would result in him knowing it, such as:
 - Type of hazardous materials
 - Meteorological conditions
 - Radiological Conditions
 - Notification to the WVVPD.
- NOTE 1: "On-Scene Commander" will be the MPOSS for the initial phase of emergency until relieved by the Affected System Shift Supervisor.
- NOTE 2: All radio and telephone communications should start and end with the statement, "THIS IS AN EXERCISE." This statement should be interjected at several places during lengthy communications.
- o Observe turn-over of responsibilities from the MPOSS to the Affected Area SS (if applicable).
 - o Record events as they progress during the exercise as per attached Chronology of Major Events form.

CHRONOLOGY OF MAJOR EVENTS

TIME	EVENT

CONTROLLER INSTRUCTIONS

CONTROLLER NO. 3/4

CONTROLLER LOCATION: R/S Shift Supervisor Office

CONTROLLER NAME: T. M. Conlin/G. H. Metzler

INSTRUCTIONS:

- o At approximately 5 minutes prior to the initiation of the exercise, proceed to the R/S Supervisor Office and locate the R/S Supervisor.
 - Upon R/S survey of areas, present the radiological results as per data sheet No. 3. DO NOT volunteer any data unless the technician(s) actually performs the action that would result in him/her knowing it.
- NOTE 1: Prompt participant, if necessary, to ensure the exercise progresses in the proper direction.
- NOTE 2: All radio communications should start and end with the statement "THIS IS AN EXERCISE."
- o Record events as they progress during the exercise as per Chronology of Major Events form.
- o Observe the following actions and comment on the attached Comment sheet.
 - Quick assignments of R/S Technician(s) to evaluate the radiological conditions and proper concern to personnel.
 - R/S Technician response actions and time.
 - Communications

CHRONOLOGY OF MAJOR EVENTS

TIME	EVENT

CONTROLLER INSTRUCTIONS

CONTROLLER NO. 5/6

CONTROLLER LOCATION: Environmental Lab

CONTROLLER NAME: D. P. Wilcox/J. P. Griffin

INSTRUCTIONS:

- o At approximately 5 minutes prior to initiation of the exercise, proceed to the Environmental Laboratory, Room 47, Administration Building.
- Upon arrival of the Environmental Monitoring Team on-site, accompany the Environmental Monitoring Team to obtain air, water or soil samples. Present results as per data sheets.

NOTE: All radio and telephone communications should start and end with the statement "THIS IS AN EXERCISE." This statement should be interjected at several places during lengthy communications.

- o Record events as they progress during the exercise as per attached Chronology of Major Events form.
- o Observe the following actions and comment on the attached Comment sheet.
 - Location and time of samples.
 - Type of samples.
 - Sampling methods and techniques.
 - Notification/communication of results to the Environmental Lab.
 - Off-site Environmental Team mobilization procedures.

COMMENTS

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CONTROLLER INSTRUCTIONS

CONTROLLER NO. 7

CONTROLLER LOCATION: Main Gate

CONTROLLER NAME: R. D. Love

INSTRUCTIONS:

- o At approximately 1345 hours, proceed to the Main Gatehouse.
 - Give telephone operator (Security Inspector) the attached instruction sheet for answering incoming calls concerning the exercise.
- o At 1347 hours, give the following information to the Security Inspector:

"THIS IS AN EXERCISE." There is a weather warning report of:

 - high winds up to 65 miles/hr
 - heavy thunderstorms within the next few hours

NOTE 1: If Security Inspector does not notify the MPOSS, prompt him to make notification.

NOTE 2: All radio and telephone communications should start and end with the statement "THIS IS AN EXERCISE." This statement should be interjected at several places during lengthy communications.

- o At 1400 hours the fire will start
 - If Security Inspector does not discover the fire make sure that Controller No. 1 or No. 2 initiate the exercise by notifying Security of a fire in the NDA.

NOTE 3: ALLOW Security to notify WVVFD.

- o At approximately 1406 hours:
 - An ALERT condition declared
 - All Page announcement to activate EOC
- o At 1420 hours, Controller No. 10 will disconnect transmission lines to prevent outside calls.
 - Make sure switchboard operator does not allow any outside communications
- o Record events as they progress during the exercise as per attached Chronology of Major Events form.

INSTRUCTIONS FOR WVNS TELEPHONE OPERATOR DURING EMERGENCY EXERCISE

If incoming calls inquire concerning what is going on, give the following answer:

"A scheduled Emergency Exercise is being conducted at the WVDP site. Do not be alarmed, there is nothing wrong. This is only an exercise."

CHRONOLOGY OF MAJOR EVENTS

TIME	EVENT

COMMENTS

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CONTROLLER INSTRUCTIONS

CONTROLLER NO. 8

CONTROLLER LOCATION: PSO Office/NDA/Search-Re-entry

CONTROLLER NAME: R. E. Estep

INSTRUCTIONS:

- o At approximately 5 minutes prior to initiation of the exercise proceed to the MPOSS office.
 - Station yourself at the MPOSS Office
- o At 1400 hours, initiation of the fire
 - Follow the MPOSS
 - Observe actions of the Search & Re-entry Team (Haz-Mat response actions)
 1. Response time
 2. Techniques
 3. Communications
 4. Identification of hazards and mitigating actions
- o Record events as they progress during the exercise as per attached Chronology of Major Events form.

NOTE: All radio and telephone communications should start and end with the statement "THIS IS AN EXERCISE."

CHRONOLOGY OF MAJOR EVENTS

TIME	EVENT

CONTROLLER INSTRUCTIONS

CONTROLLER NO. 9A, 9B

CONTROLLER LOCATION: EOC/WVNS

CONTROLLER NAME: D. J. Harward/R. A. Gonzalez

INSTRUCTIONS:

- o At approximately 1400 hours proceed to the EOC.
 - Station yourself at the EOC
- o At 1408 hours, an ALERT condition declared
 - Ensure Security makes the following announcement over the "All Page" 812 system:
"The site is in a state of ALERT condition"
- o Upon arrival of the EOC staff:
 - Make sure all data and information at the EOC is consistent with the exercise scenario
 - The ALERT condition should escalate to a SITE EMERGENCY - potential off-site hazardous waste surface contamination.
 - DO NOT ALLOW outside communications. Indicate all outside communications are lost. Back-up communication is allowed (cellular telephones).
- o Record events as they progress during the exercise as per attached Chronology of Major Events form.
- o Observe the following actions and comment on the attached Comment sheet.
 - Time EOC declared operational
 - Identify magnitude of a hazardous material accident and source
 - Classification of Emergency level
 - Identify alternate off-site communication/notification links
 - Decision making process during:
 1. Response phase
 2. Control/mitigating phase
 3. Recovery phase

NOTE 1: You are the final check to assure that reported data from the field is consistent with exercise scenario. If incorrect data is reported, correct it on the spot.

NOTE 2: All radio and telephone communications should start and end with the statement "THIS IS AN EXERCISE." This statement should be interjected at several places during lengthy communications.

CHRONOLOGY OF MAJOR EVENTS

TIME	EVENT

COMMENTS

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CONTROLLER INSTRUCTIONS

CONTROLLER NO 10

CONTROLLER LOCATION: Main Gate/EOC

CONTROLLER NAME: J. F. Miller

INSTRUCTIONS:

- o At approximately 1400 hours, proceed to the Main Gatehouse
 - Station yourself at the Main Gatehouse
 - Make Security notify MPOSS of weather conditions and fire in the NDA
- o At approximately 20 minutes into the exercise, interrupt outside communication lines
 - Make sure incoming calls can be received by the switchboard operator
 - DO NOT ALLOW any outside calls, prompt the switchboard operator
- o At 1430 hours, proceed to the EOC
 - DO NOT ALLOW any outside calls, give the following message to EOC staff if necessary
 - "ALL SPRING LINES HAVE BEEN LOST"
 - Record events as they progress during the exercise as per attached Chronology of Major Events form.
- o Observe the following actions:
 - Alternate communication/notification to off-site agencies
 - Recovery phase

CHRONOLOGY OF MAJOR EVENTS

TIME	EVENT

CONTROLLER INSTRUCTIONS

CONTROLLER NO. 11

CONTROLLER LOCATION: EOC/Community Relations

CONTROLLER NAME: J. M. Vann

INSTRUCTIONS:

- o At approximately 1400 hours proceed to the EOC
 - Station yourself at the EOC
- o At 1408 hours an ALERT condition is declared
- o Record actions of the Community Relations Manager
- o Record events as they happen during the exercise
- o Observe and comment on the following actions:
 - Develops (or develop) alternate communication links
 - Takes notes for release to news media when communications are restored
 - Prepares for rumor control activities
 - Prepares information for public

CHRONOLOGY OF MAJOR EVENTS

TIME	EVENT

B. PLAYER RESPONSIBILITIES AND INSTRUCTIONS

PLAYER RESPONSIBILITIES AND INSTRUCTIONS

1. All exercise communications and messages shall begin and end with the statement:

"THIS IS AN EXERCISE"

This statement shall also be interjected at appropriate places during lengthy communications.

2. If contacted by the news media, direct the media to the Community Relations Manager.
3. Only respond or act upon data or instructions given by other players or exercise controllers.
4. Respond to the exercise as if it were a real emergency in accordance with the Emergency Plan, Implementing Procedures and Emergency Standard Operating Procedures. Do not simulate any actions unless the controller tells you to do so.
5. Do not enter into personal conversations with the controller. But if asked any questions by the controller, answer the questions. If you cannot answer the question because you are trying to complete a task, ask the controller to wait. If you don't understand a question, say so.
6. Keep a list of items you feel will improve the Emergency Plan and Implementing Procedures or the Emergency Standard Operating Procedures. One of the main objectives of the exercise is to test the state of emergency preparedness by identifying areas in need of improvement or lesson learned. Provide your input to the controller for use in the exercise critique.
7. In the event of an actual emergency during the exercise, the Emergency Director will terminate the exercise. At no time will site safety be degraded for this exercise.

8. The Exercise Coordinator will determine when the exercise is terminated.

C. EVALUATOR RESPONSIBILITIES AND INSTRUCTIONS

EVALUATOR RESPONSIBILITIES AND INSTRUCTIONS

1. Report to the designated location to be evaluated as per the exercise schedule.
2. Observe and evaluate players responses based on the objectives as per checklist.
3. Report to the Exercise Critique section as per the exercise schedule.
4. Return your evaluation sheets including the checklist to the WVDP Radiation & Safety Department by

EVALUATION CRITERIA-ON-SCENE

	Findings		
	<u>Yes</u>	<u>No</u>	<u>N/A</u>
1. At what time was the On-Scene Commander notified of the incident? Time: _____ By Whom: _____ Who was On-Scene Commander _____	_____	_____	_____
2. Did the On-Scene Commander notify the Operations Manager via? __radio__ telephone__ all page "812" __other	_____	_____	_____
3. Did the On-Scene Commander direct activation of Emergency Response Teams?	_____	_____	_____
4. How was the Emergency Director notified of the incident?	_____	_____	_____
5. Was the incident assessed properly in accordance with Emergency Plan and Procedures?	_____	_____	_____
- Type of incident (hazardous vs. radiological)	_____	_____	_____
- Hazardous material CAS, MSDS	_____	_____	_____
- Care of personnel	_____	_____	_____
- Quantity release	_____	_____	_____
- Toxic effects, hazards	_____	_____	_____
- Meteorological conditions	_____	_____	_____
6. Was the incident properly controlled or mitigating actions followed to stop the incident?	_____	_____	_____
7. Did the On-Scene Commander assure no entry into the incident area and direct control of area?	_____	_____	_____
8. At what time was the ALERT declared?	_____	_____	_____
9. Did the On-Scene Commander notify the Security Shift Supervisor by radio or telephone to verify activation of autodialer (G-26 Strict Order of Call)	_____	_____	_____

	Findings		
	<u>Yes</u>	<u>No</u>	<u>N/A</u>
10. Did the operating groups (non-essential) shut down the system in an orderly and safe manner?	_____	_____	_____
11. Did the On-Scene Commander maintain communication with the West Valley Fire Police and WVVFD (simulated)?	_____	_____	_____
12. Did the On-Scene Commander initiate sitewide accountability?	_____	_____	_____
13. Did the On-Scene Commander receive the results of sitewide accountability from the Security Shift Supervisor?	_____	_____	_____
14. Was communication between the On-Scene Commander or Operations Manager and EOC staff maintained?	_____	_____	_____
15. Were all radio and telephone communications preceded and followed by "THIS IS AN EXERCISE?"	_____	_____	_____

EVALUATION SHEET

EVALUATOR NAME: D. C. Feldman

LOCATION: WMO Supervisor

OBJECTIVE: Demonstrate the ability of the On-Scene Command Group in
assessing the emergency situation and directing emergency response actions
to mitigate the emergency condition.

DESCRIPTION OF
EVENTS-NARRATIVE: _____

Evaluator Name: _____

Location: _____

Impact: _____

Recommendations: _____

Evaluator Name: _____

Location: _____

OBJECTIVE WAS: _____ MET _____ NOT MET

EVALUATION - _____
Lesson Learned _____

CHRONOLOGY OF MAJOR EVENTS

TIME	EVENT

Evaluator Name: _____

Location: _____

Impact: _____

Recommendations: _____

Evaluator Name: _____

Location: _____

OBJECTIVE WAS: _____ MET _____ NOT MET

EVALUATION - _____
Lesson Learned

CHRONOLOGY OF MAJOR EVENTS

TIME	EVENT
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EVALUATION CRITERIA FOR EMERGENCY RESPONSE TEAMS

	Findings		
	<u>Yes</u>	<u>No</u>	<u>N/A</u>
1. Were the Emergency Response Teams (ERT) promptly activated by the On-Scene Commander?	_____	_____	_____
2. Which and how many ERT members responded?			
- Firefighters	_____	_____	_____
- Radiological Control	_____	_____	_____
- Environmental Monitoring	_____	_____	_____
- EMTs	_____	_____	_____
- Personnel Monitoring	_____	_____	_____
- Search and Re-entry	_____	_____	_____
3. Did the ERT take appropriate measures to stop or mitigate the hazardous material/radiological release?	_____	_____	_____
4. Were appropriate precautions demonstrated for the protection of all emergency response personnel:			
- Monitoring for concentration of hazardous material?	_____	_____	_____
- Monitoring for radiological hazards?	_____	_____	_____
- Use of protective clothing and breathing apparatus?	_____	_____	_____
5. Was the response properly managed and directed by the On-Scene Commander?	_____	_____	_____
6. Were on-site personnel evacuated from unsafe areas as appropriate?	_____	_____	_____
7. Were sufficient equipment/water/supplies available to promptly decontaminate personnel (if appropriate)?	_____	_____	_____
8. Was contaminated clothing/equipment removed from personnel?	_____	_____	_____
9. Were personnel properly frisked and decontaminated (if applicable)?	_____	_____	_____
10. Were emergency response members trained in emergency response procedures?	_____	_____	_____

	Findings		
	<u>Yes</u>	<u>No</u>	<u>N/A</u>
11. Was the team's vehicle reliable and suitable for reaching all monitoring locations?	---	---	---
12. Were predetermined monitoring stations established and used?	---	---	---
13. Were surveys and sample results communicated to the On-Scene Commander?	---	---	---
14. Were personnel monitoring and vehicle survey results for contamination at Assembly Area (BSW) communicated to the Assembly Area Coordinator and On-Scene Commander?	---	---	---
15. Were all radio and telephone communications preceded and followed by "THIS IS AN EXERCISE"?	---	---	---

EVALUATION SHEET

EVALUATOR NAME: M. F. Schmitz

LOCATION: Accident Scene/Fire Brigade

OBJECTIVE: Demonstrate the ability of the On-Scene Command Group in
assessing the emergency situation and directing emergency response actions
to mitigate the emergency condition.

DESCRIPTION OF
EVENTS-NARRATIVE: _____

Evaluator Name: _____

Location: _____

Impact: _____

Recommendations: _____

CHRONOLOGY OF MAJOR EVENTS

TIME	EVENT

EVALUATION SHEET

EVALUATOR NAME: R. E. Estep

LOCATION: Accident Scene/Search and Re-entry

OBJECTIVE: Demonstrate the ability of the On-Scene Command Group (Search and Re-entry Team) in assessing the emergency situation and directing emergency response actions to mitigate the emergency condition.

DESCRIPTION OF EVENTS-NARRATIVE: _____

Evaluator Name: _____

Location: _____

Impact: _____

Recommendations: _____

Evaluator Name: _____

Location: _____

OBJECTIVE WAS: _____ MET _____ NOT MET

EVALUATION - _____
Lesson Learned

CHRONOLOGY OF MAJOR EVENTS

TIME	EVENT

EVALUATION SHEET

EVALUATOR NAME: T. M. Conlin

LOCATION: Radiation and Safety Office/Rad Con Team

OBJECTIVE: Demonstrate the ability of the Radiological Control Team to assess the situation by evaluating sampling techniques, location and time of samples, types of samples, surveys, etc.

DESCRIPTION OF EVENTS - NARRATIVE: _____

Evaluator Name: _____

Location: _____

Impact: _____

Recommendations: _____

Evaluator Name: _____

Location: _____

OBJECTIVE WAS: _____ MET _____ NOT MET

EVALUATION - _____

Lesson Learned _____

CHRONOLOGY OF MAJOR EVENTS

TIME	EVENT

EVALUATION SHEET

EVALUATOR NAME: D. P. Wilcox/J. P. Griffin

LOCATION: Environmental Lab/Environmental Monitoring Team

OBJECTIVE: Demonstrate the ability of the Environmental Monitoring Team to assess the situation by evaluating sampling techniques, location and time of samples, types of samples, surveys, etc.

DESCRIPTION OF
EVENTS-NARRATIVE: _____

Evaluator Name: _____

Location: _____

Impact: _____

Recommendations: _____

Evaluator Name: _____

Location: _____

OBJECTIVE WAS: _____ MET _____ NOT MET

EVALUATION - _____

Lesson Learned

CHRONOLOGY OF MAJOR EVENTS

TIME	EVENT

EVALUATION CRITERIA SECURITY FORCE

	Findings		
	<u>Yes</u>	<u>No</u>	<u>N/A</u>
1. Did the Security Force respond to the site or local evacuation in accordance with Site Evacuation Procedure G-21 or Local Evacuation Procedure G-20?	_____	_____	_____
2. Did the Security Force establish access control points?	_____	_____	_____
3. Did security response personnel at each location know their specific assignment (restrict vehicle access, access emergency vehicles, routine of emergency response and evacuee traffic)?	_____	_____	_____
4. Were field security personnel equipped with radios?	_____	_____	_____
5. Did the Security Force maintain communications with:			
- WVDP EOC	_____	_____	_____
- Cattaraugus County Sheriff's Department	_____	Simulated	_____
- Main Gate (or command post)	_____	_____	_____
- West Valley Fire Police	_____	Simulated	_____
- Other access control personnel	_____	_____	_____
- Other _____	_____	_____	_____
6. Did the Security Force establish traffic control of evacuees at the Assembly Area (BSW) and other road intersections?	_____	_____	_____
7. Was radio contact reliable?	_____	_____	_____
8. Did field security personnel periodically report in to get updates?	_____	_____	_____
9. How was personnel accountability accomplished?	_____	_____	_____
10. Did the Security Shift Supervisor verify the Assembly Area (BSW) accountability results with the sitewide accountability results?	_____	_____	_____
11. At what time was total personnel accountability completed?	_____	_____	_____
12. Were all radio and telephone communications preceded and followed by "THIS IS AN EXERCISE"?	_____	_____	_____

EVALUATION SHEET

EVALUATOR NAME: R. D. Love

LOCATION: Main Gate/Security Shift Supervisor

OBJECTIVE: Evaluate the ability of the Security Department in verifying notification to the EOC staff and maintain traffic control.

DESCRIPTION OF EVENTS-NARRATIVE: _____

Evaluator Name: _____

Location: _____

Impact: _____

Recommendations: _____

Evaluator Name: _____

Location: _____

OBJECTIVE WAS: _____ MET _____ NOT MET

EVALUATION - _____

Lesson Learned _____

CHRONOLOG7 OF MAJOR EVENTS

TIME	EVENT
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EVALUATION CRITERIA FOR EOC

		Findings		
		<u>Yes</u>	<u>No</u>	<u>N/A</u>
<u>Activation and Staffing</u>				
1.	Was notification made from the On-Scene Command Group that an accident/incident had occurred affecting the site? How? _____ _____	_____	_____	_____
	From Whom? _____			
2.	Was initial notification of emergency staff initiated?	_____	_____	_____
3.	Did the emergency staff arrive at the EOC in a timely manner? First arrival time: _____ Majority arrival time: _____	_____	_____	_____
4.	Were Operations Support personnel put on standby following notification of emergency status?	_____	_____	_____
5.	Was an Emergency Implementing Procedure available and utilized for activation and staff augmentation of emergency response staff? If so, was a written Emergency Telephone List used? Was the emergency telephone list up-to-date (numbers right)	_____	_____	_____
6.	At what time was staffing complete? Time: _____	_____	_____	_____
7.	Was the EOC function staffed adequately?	_____	_____	_____
8.	At what time was the EOC declared operational? Time: _____	_____	_____	_____
9.	At what time were the following emergency classifications declared? UNUSUAL EVENT Time _____ ALERT Time _____ SITE EMERGENCY Time _____	_____	_____	_____

EVALUATION CRITERIA FOR EOC (continued)

	Findings		
	<u>Yes</u>	<u>No</u>	<u>N/A</u>
10. Did the staff (primaries) in general display adequate training and knowledge?	_____	_____	_____
11. Was a staffing capability demonstrated?	_____	_____	_____

EOC Operations

1. Was an individual effectively in charge of the management of the EOC?	_____	_____	_____
2. Was the person in charge, the person designated in the Emergency Plan?	_____	_____	_____
3. Was access to the EOC controlled?	_____	_____	_____
4. Was EOC staff (as appropriate) involved in decision making?	_____	_____	_____
5. Were periodic briefings held to update staff on the situation?	_____	_____	_____
6. Did EOC staff have written procedures or checklists?	_____	_____	_____
7. Were messages reproduced, distributed and logged, as appropriate?	_____	_____	_____
8. Was off-site assistance requested?	_____	_____	_____

Indicate assistance requested and who requested assistance.

EVALUATION CRITERIA FOR EOC (continued)

Facilities and Equipment

		Findings		
		<u>Yes</u>	<u>No</u>	<u>N/A</u>
1.	Were the following items adequate to support operations of the EOC?			
	___ Furniture	___	___	___
	___ Telephones	___	___	___
	___ Space	___	___	___
	___ Lighting	___	___	___
	___ Reference Material	___	___	___
	___ Supplies (pens, pencils, paper, etc.)	___	___	___
	___ Status Boards	___	___	___
	___ Other (specify)	___	___	___
2.	Was backup power available?	___	___	___
3.	Was noise adequately controlled?	___	___	___
4.	If within the plume:			
	Can EOC personnel be protected?	___	___	___
	Was this demonstrated?	___	___	___
	If yes, describe measures taken.			

5.	Were status boards kept up-to-date with significant events and clearly visible?	___	___	___

EVALUATION CRITERIA FOR EOC (continued)

Communications

		Findings		
		<u>Yes</u>	<u>No</u>	<u>N/A</u>
1.	For each of the following off-site organizations, indicate whether communication was demonstrated:			
	___ Cattaraugus County EOC	___	___	___
	___ Erie County EOC	___	___	___
	___ WCC-Idaho	___	___	___
	___ SEMO	___	___	___
	___ EPA, Region II	___	___	___
	___ Westinghouse Corporate, NFBU	___	___	___
2.	Were updates to above agencies provided as necessary?	___	___	___
3.	Was a dedicated line with the WCC-ID maintained at all times during the emergency?	___	___	___
4.	Were radio communications between On-Scene Command Group and EOC staff adequate?	___	___	___
5.	Were internal messages between EOC staff adequately handled?	___	___	___
6.	Was a hard-copy available? If yes, was it reliable and reasonably fast?	___	___	___
7.	Were all radio and telephone communications preceded and followed by "THIS IS AN EXERCISE"?	___	___	___

Accident Assessment/Protective Actions

1.	Was assessment of the emergency and recommendations made to the On-Scene Command Group regarding mitigation, corrective actions and damage control?	___	___	___
2.	Was field data received from the Emergency Response Teams and On-Scene Commander?	___	___	___
	How: _____			

	To Whom: _____			

- | | | | | |
|-----|--|-------|-------|-------|
| 3. | Was the magnitude of the emergency assessed promptly? | _____ | _____ | _____ |
| 4. | Were expected doses/concentrations derived from: | | | |
| | Site release data? | _____ | _____ | _____ |
| | Field readings? | _____ | _____ | _____ |
| 5. | Were dose/concentrations calculations via computer? | _____ | _____ | _____ |
| 6. | Were calculations made promptly? | _____ | _____ | _____ |
| 7. | Was field data (monitoring) plotted on a map? | _____ | _____ | _____ |
| 8. | Were monitor teams (Emergency Response Teams) correctly and promptly directed to new locations (on-site and off-site) to define the extent of the plume? | _____ | _____ | _____ |
| 9. | Were field readings received promptly and in a timely manner? | _____ | _____ | _____ |
| 10. | Were protective actions recommendations (on-site) made for: | | | |
| | Plume pathway hazards? | _____ | _____ | _____ |
| | Ingestion pathway hazards? | _____ | _____ | _____ |
| 11. | Were other factors considered, e.g., plant status, evacuation time estimates, weather? | _____ | _____ | _____ |
| 12. | Were decisions made on what actions were taken in regard to assembling of evacuees? | _____ | _____ | _____ |
| | <u>Evacuation and Access Control</u> | | | |
| 1. | Was activation of traffic control points promptly ordered? | _____ | _____ | _____ |
| 2. | According to EOC staff, are appropriate resources available to keep evacuation routes clear: | | | |
| | During bad weather? | _____ | _____ | _____ |
| | In event of stalled or wrecked car? | _____ | _____ | _____ |
| 3. | Were these resources activated? | _____ | _____ | _____ |
| 4. | At what time was on-site evacuation recommended? | _____ | _____ | _____ |
| | Time: _____ | | | |

EVALUATION CRITERIA FOR EOC (continued)

Accountability

1. Did EOC receive Assembly Area accountability information from the On-Scene Commander? _____
If no, From Whom _____
Time _____
2. Were accountability procedures available and adequate to ensure all non-essential personnel are evacuated? _____
3. Did the EOC provide advice to the On-Scene Commander regarding search and rescue or other actions related to assembly area and sitewide accountability results? _____
4. Did the data recorders post sitewide accountability information? _____

Public Information

1. When did the Public Information Manager report to the EOC?
Time: _____
2. When was activation of JPIC ordered?
Time: _____
3. Did the EOC staff establish and maintain communication with the JPIC? _____
4. Was the EOC informed of all news briefings at the JPIC? _____
5. Were all JPIC press releases reviewed by the EOC prior to release? _____

EVALUATION SHEET

EVALUATOR NAME: D. J. Harward

LOCATION: EOC

OBJECTIVE: Demonstrate the ability to assess the emergency condition, by
classifying the emergency on a timely basis, and determine on-site protective
actions.

DESCRIPTION OF
EVENTS - NARRATIVE: _____

Evaluator Name: _____

Location: _____

Impact: _____

Recommendations: _____

Evaluator Name: _____

Location: _____

OBJECTIVE WAS: _____ MET _____ NOT MET

EVALUATION - _____
Lesson Learned

CHRONOLOGY OF MAJOR EVENTS

TIME	EVENT

EVALUATION SHEET

EVALUATOR NAME: R. A. Gonzalez/J. F. Miller

LOCATION: EOC

OBJECTIVE: Demonstrate the ability to notify off-site agencies in
accordance with the emergency classification, maintaining off-site agencies
informed of the status of the emergency at all times and recommend any
protective actions if required.

DESCRIPTION OF
EVENTS - NARRATIVE: _____

Evaluator Name: _____

Location: _____

Impact: _____

Recommendations: _____

CHRONOLOGY OF MAJOR EVENTS

TIME	EVENT

EVALUATION SHEET

EVALUATOR NAME: D. J. Harward

LOCATION: EOC

OBJECTIVE: Demonstrate the ability to activate the Emergency Response Organization (EOC staff, ERTs) and the ERFs by mobilizing each element of the ERO during non-regular hours.

DESCRIPTION OF
EVENTS-NARRATIVE: _____

Evaluator Name: _____

Location: _____

Impact: _____

Recommendations: _____

CHRONOLOGY OF MAJOR EVENTS

TIME	EVENT

EVALUATION SHEET

EVALUATOR NAME: J. M. Vann

LOCATION: EOC/DOE

OBJECTIVE: Demonstrate the ability to notify the WCC-ID by maintaining
an open line with the WCC-ID at all times during the emergency

DESCRIPTION OF
EVENTS - NARRATIVE: _____

Evaluator Name: _____

Location: _____

Impact: _____

Recommendations: _____

Evaluator Name: _____

Location: _____

OBJECTIVE WAS: _____ MET _____ NOT MET

EVALUATION - _____
Lesson Learned _____

CHRONOLOGY OF MAJOR EVENTS

TIME	EVENT

EVALUATION SHEET

EVALUATOR NAME: J. M. Vann

LOCATION: EOC/Community Relations

OBJECTIVE: Demonstrate the ability of the Community Relations Department
in briefing the news media and formulating and coordinating information to
the public.

DESCRIPTION OF
EVENTS-NARRATIVE: _____

Evaluator Name: _____

Location: _____

Impact: _____

Recommendations: _____

Evaluator Name: _____

Location: _____

OBJECTIVE WAS: _____ MET _____ NOT MET

EVALUATION - _____

Lesson Learned

CHRONOLOGY OF MAJOR EVENTS

TIME	EVENT

EVALUATION SHEET

EVALUATOR NAME: D. J. Forward/R. A. Gonzalez

LOCATION: EOC

OBJECTIVE: Evaluate the methodology used during the recovery phase.

DESCRIPTION OF
EVENTS - NARRATIVE: _____

Evaluator Name: _____

Location: _____

Impact: _____

Recommendations: _____

Evaluator Name: _____

Location: _____

OBJECTIVE WAS: _____ MET _____ NOT MET

EVALUATION - _____
Lesson Learned _____

CHRONOLOGY OF MAJOR EVENTS

TIME	EVENT

