

SC EXER Ex #102
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6/11/87
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EXERCISE EVALUATION CRITIQUE FORM FEMA Panel Ex #30

Page A of

EXERCISE: Shoreham DATE: February 13, 1986

Location: Local Emergency Operations Center

Evaluator's Name: P. Giardina

EXERCISE OBJECTIVE AND POINTS OF REVIEW	EVALUATOR(S)	LOCATION/ ASSIGNMENT	COMMENTS AND RECOMMENDATIONS
OBJECTIVE: E.O. 12 Demonstrate the ability to receive and interpret radiation dosage projection information, and to determine appropriate protective measures, based on PAGs and information received from the Brookhaven Area Office (BHO). POINTS OF REVIEW: - Implementation of: - OPIP 3.1.1, Attachment 3 (Health Services Coordinator). - OPIP 3.5.2. - Ability to make protective action decisions promptly. - Consistency of decisions with EPA PAGs and plan guidance. - Consideration of relevant factors such as evacuation time estimates, shelter availability, meteorological forecasts, duration of release, availability of bus resources, road conditions, etc.	P. Giardina	LERO EOC/ Accident Assessment	COMMENTS (Good Performance or Deficiency -- factually describe your observation) <i>This objective was essentially met completely with the exception of a list of several improvements (See page B-37 of 29). Radiation dose projections were made by the accident assessment staff. These were made before release based on projected releases and actual releases. Protective action recommendations were made by the radiation health services person based on projected dose meteorological forecasts, direction of release, plant status, and plant projections. Decisions were made consistently with EPA PAGs in child thyroid dose, which was appropriate and the dustfalling dose pathway. The most serious problems involved lack of use and/or analysis of data for evacuation, and possible inadequacy of the Nassau Veterans Coliseum for decontamination of 1000. Dose projection examples are attached as are dustfall blocking authorization form.</i>
EVALUATION SCHEME 1. NO DEFICIENCY OBJECTIVE MET 2. NO DEFICIENCY 3. NO DEFICIENCY 4. NO DEFICIENCY 5. NO DEFICIENCY 6. NO DEFICIENCY 7. NO DEFICIENCY 8. NO DEFICIENCY 9. NO DEFICIENCY 10. NO DEFICIENCY 11. NO DEFICIENCY 12. NO DEFICIENCY 13. NO DEFICIENCY 14. NO DEFICIENCY 15. NO DEFICIENCY 16. NO DEFICIENCY 17. NO DEFICIENCY 18. NO DEFICIENCY 19. NO DEFICIENCY 20. NO DEFICIENCY 21. NO DEFICIENCY 22. NO DEFICIENCY 23. NO DEFICIENCY 24. NO DEFICIENCY 25. NO DEFICIENCY 26. NO DEFICIENCY 27. NO DEFICIENCY 28. NO DEFICIENCY 29. NO DEFICIENCY 30. NO DEFICIENCY 31. NO DEFICIENCY 32. NO DEFICIENCY 33. NO DEFICIENCY 34. NO DEFICIENCY 35. NO DEFICIENCY 36. NO DEFICIENCY 37. NO DEFICIENCY 38. NO DEFICIENCY 39. NO DEFICIENCY 40. NO DEFICIENCY 41. NO DEFICIENCY 42. NO DEFICIENCY 43. NO DEFICIENCY 44. NO DEFICIENCY 45. NO DEFICIENCY 46. NO DEFICIENCY 47. NO DEFICIENCY 48. NO DEFICIENCY 49. NO DEFICIENCY 50. NO DEFICIENCY 51. NO DEFICIENCY 52. NO DEFICIENCY 53. NO DEFICIENCY 54. NO DEFICIENCY 55. NO DEFICIENCY 56. NO DEFICIENCY 57. NO DEFICIENCY 58. NO DEFICIENCY 59. NO DEFICIENCY 60. NO DEFICIENCY 61. NO DEFICIENCY 62. NO DEFICIENCY 63. NO DEFICIENCY 64. NO DEFICIENCY 65. NO DEFICIENCY 66. NO DEFICIENCY 67. NO DEFICIENCY 68. NO DEFICIENCY 69. NO DEFICIENCY 70. NO DEFICIENCY 71. NO DEFICIENCY 72. NO DEFICIENCY 73. NO DEFICIENCY 74. NO DEFICIENCY 75. NO DEFICIENCY 76. NO DEFICIENCY 77. NO DEFICIENCY 78. NO DEFICIENCY 79. NO DEFICIENCY 80. NO DEFICIENCY 81. NO DEFICIENCY 82. NO DEFICIENCY 83. NO DEFICIENCY 84. NO DEFICIENCY 85. NO DEFICIENCY 86. NO DEFICIENCY 87. NO DEFICIENCY 88. NO DEFICIENCY 89. NO DEFICIENCY 90. NO DEFICIENCY 91. NO DEFICIENCY 92. NO DEFICIENCY 93. NO DEFICIENCY 94. NO DEFICIENCY 95. NO DEFICIENCY 96. NO DEFICIENCY 97. NO DEFICIENCY 98. NO DEFICIENCY 99. NO DEFICIENCY 100. NO DEFICIENCY			EVALUATOR MUST IDENTIFY DEFICIENCY(IES) OR CORRECTIVE ACTION(S) WITH RECOMMENDATION(S) ON FOLLOWING PAGE(S)

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G PDR

NUCLEAR REGULATORY COMMISSION

Docket No. 52-322-X-5 Official Exh. No. 102

In the matter of Shoshone Nuclear Power Station, Inc.

Staff IDENTIFIED

Applicant RECEIVED

Intervenor REJECTED

Cent'g Off'r

Contractor DATE 6-11-87

Other Witness

Reporter

EXERCISE EVALUATION CRITIQUE FORM

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EXERCISE: Shoreham DATE: February 13, 1986

Objective Number: EOC 12
Location: LERO EOC Accident AssessmentEvaluator's Name: P. Gordin
Team: Local Emergency Operations Center

EVALUATOR MUST IDENTIFY DEFICIENCY(IES) OR CORRECTIVE ACTION(S) IF OBJECTIVE IS NOT MET OR PARTLY MET. THERE MAY BE MORE THAN ONE (1) DEFICIENCY OR CORRECTIVE ACTION FOR THIS OBJECTIVE. A SEPARATE RECOMMENDATION MUST BE PROVIDED FOR EACH DEFICIENCY OR CORRECTIVE ACTION THAT IS IDENTIFIED.

CHECK ONE BOX

☒ DEFICIENCY	Please state briefly the problem area
☐ AREA FOR CORRECTIVE ACTION	

The dose assessment status board must accommodate RPTM date and LERO date. There is insufficient room or columns on the board to separate the two sources of data.

RECOMMENDATION:

The dose assessment status board should be revised to accommodate a split in date reports from RPTM & LERO.

CHECK ONE BOX

☒ DEFICIENCY	Please state briefly the problem area
☐ AREA FOR CORRECTIVE ACTION	

The radiation health coordinator did not demonstrate that he used the data contained in plans and procedures concerning time estimates for evacuation. I asked what the time estimates were and he knew all the top of his head that it would take 8 hours under the worst proper conditions. He never communicated or showed this evaluator the actual estimate for these conditions. Additionally, the actual procedures for evacuation were never reviewed with the dose assessment staff for questions for this information to those which might be asked. This resulted in people being evacuated through the plane.

RECOMMENDATION:

The radiation health coordinator should review the time estimates for evacuation and demonstrate this in the next exercise plan. The radiation health coordinator should be contacted when an improvement to evacuation is recommended.

EXERCISE EVALUATION CRITIQUE FORM

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EXERCISE: Shoreham DATE: February 13, 1986

Objective Number: EOC 12
Location: LERO EOC Accident AssessmentEvaluator's Name: P. Gardina
Team: Local Emergency Operations Center

EVALUATOR MUST IDENTIFY DEFICIENCY(IES) OR CORRECTIVE ACTION(S) IF OBJECTIVE IS NOT MET OR PARTLY MET. THERE MAY BE MORE THAN ONE (1) DEFICIENCY OR CORRECTIVE ACTION FOR THIS OBJECTIVE. A SEPARATE RECOMMENDATION MUST BE PROVIDED FOR EACH DEFICIENCY OR CORRECTIVE ACTION THAT IS IDENTIFIED.

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☐	AREA FOR CORRECTIVE ACTION	

During the reporting of one thyroid dose from a RAP team the downwind distance of the sample was incorrectly reported as 700 meters instead of 70 meters. This meant that a thyroid dose of 800 m/hr was reported 4.3 miles downwind instead of at about 0.5 miles. This error was found and corrected in 5 minutes.

RECOMMENDATION

In general this one error was spotted and corrected quickly. This problem may be eliminated if all downwind distances are reported consistently in either miles or meters.

CHECK ONE BOX

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☐	AREA FOR CORRECTIVE ACTION	

During the reporting of initial RAP thyroid doses only one apparent measurement was made at the field 1400 m/hr @ 12:04 @ 2 miles. This was extrapolated back to get projected doses at other distances. These data were reported as actual measurements instead of projections on the dose assessment status board. It took 2.5 hours to identify and correct this error.

RECOMMENDATION

RAP procedures and measurement/measuring protocols and LERO reporting procedures should be reviewed to assure coordination and to assure proper reporting.

EXERCISE EVALUATION CRITIQUE FORM

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EXERCISE: Shoreham DATE: February 13, 1986

Objective Number: EOC-12Location: LECO EOC Accident AssessmentEvaluator's Name: P. GardinaTeam: Local Emergency Operations Center

EVALUATOR MUST IDENTIFY DEFICIENCY(IES) OR CORRECTIVE ACTION(S) IF OBJECTIVE IS NOT MET OR PARTLY MET. THERE MAY BE MORE THAN ONE (1) DEFICIENCY OR CORRECTIVE ACTION FOR THIS OBJECTIVE. A SEPARATE RECOMMENDATION MUST BE PROVIDED FOR EACH DEFICIENCY OR CORRECTIVE ACTION THAT IS IDENTIFIED.

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☐ AREA FOR CORRECTIVE ACTION	

The health services coordinator who provided accurate briefings at all times, did mis-speak at an 11:10 EOC briefing when he mis-stated the EPA thyroid PPA as being at 5 REM projected. evacuation was mandatory. This may have been a slip to the tongue as he correctly stated the PPA to this evaluator later.

RECOMMENDATION

Review of the EPA PPA guidance is recommended by the health services coordinator

CHECK ONE BOX

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☐ AREA FOR CORRECTIVE ACTION	

The decision to send about 20,000 people to Anzac Veterans Coliseum for monitoring and decontamination appeared appropriate due to the release deposition. While the NRC is capable of handling 50,000 or so in 12 hours, the expanded use of this facility is dubious.

RECOMMENDATION

A review of the adequacy of the NRC to handle the 20,000 people is necessary.

EXERCISE EVALUATION CRITIQUE FORM

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EXERCISE: Shoreham DATE: February 13, 1986

Objective Number: EOC 12
Location: LERD EOC Accident Assessment

Evaluator's Name: P. Giordano
Team: Local Emergency Operations Center

EVALUATOR MUST IDENTIFY DEFICIENCY(IES) OR CORRECTIVE ACTION(S) IF OBJECTIVE IS NOT MET OR PARTLY MET. THERE MAY BE MORE THAN ONE (1) DEFICIENCY AND CORRECTIVE ACTION FOR THIS OBJECTIVE. A SEPARATE RECOMMENDATION MUST BE PROVIDED FOR EACH DEFICIENCY OR CORRECTIVE ACTION THAT IS IDENTIFIED.

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OPD 361 Attachment 5 contains a series of pie charts which are a logic flow concerning core failure & containment failure along with projections for times of release. The logic does not account for a containment failure without core failure which was the case for this scenario until about 11:40 AM when the fuel was removed. The radiation health coordinator and the nuclear engineer were able to use their judgement to make the correct PRR determination.

RECOMMENDATION

OPD 361 Attachment 5 must be revised to take care of the eventuality listed to the left.

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RECOMMENDATION