

October 4, 1995

OSR/083/95

To: K. Schwartz

Subject: On-site Review for Offsite Dose Calculation Manual Revision

Enclosed are the marked-up pages of the ODCM for revision. This revision is a corrective action in response to LER 95-008. The LER was written based on the discovery that the Fuel Building Area monitor (ORT-AR03) channel functional did not test the monitor's automatic control functions quarterly as required by Technical Specifications. During the investigation for this LER the Auxiliary Building Emergency Systems Cubicle iodine monitor (ORT-PR12B) was also found to have similar testing deficiencies. This monitor is not listed in either Technical Specifications or the Offsite Dose Calculation Manual (ODCM). This change adds the monitor (ORT-PR12B) to the ODCM, delineating appropriate testing and surveillance requirements. The particulate monitor (ORT-PR12A) is also being added. This monitor does not provide any control function. However, prudence requires that this monitor also be tested and maintained per procedure. Radiation protection procedure ZRP 5820-12 and operating procedure PT-70D are currently in place to ensure that the required testing and surveillance actions are being performed on ORT-PR12B. Radiation Protection procedure ZRP 5820-12 and IM procedures are currently in place to ensure that the appropriate testing and surveillance actions are being performed on ORT-PR12A.

Prepared by: Rocky Bauman Date 10-4-95

Station Review: Disciplines Required: AD

Offsite Review Required ( yes / no ) REF: T/S 6.1.7.A.1 (a) - (l)

Greg Kassner  
Signature Discipline

10.4.95  
Date

ABG  
Signature Discipline

10/11/95  
Date

ABFG  
Signature Discipline

10/11/95  
Date

I concur and approve:

K. Schwartz  
K. Schwartz  
Station Manager  
Zion Station

10/11/95  
Date

Distribution:

Station Manager  
Technical Superintendent  
Site Quality Verification Director  
System Engineering Supervisor  
Training Supervisor  
Regulatory Assurance Administrator  
Site Vice President  
Director of Safety Review  
Operations Manager  
Regulatory Assurance File  
Master File

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TABLE 12.2-3

RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION  
(Cont'd)

<u>INSTRUMENT</u>	<u>MINIMUM CHANNELS OPERABLE</u>	<u>ACTION</u>	<u>APPLICABLE MODES</u>
3. <u>Containment and Purge or Vent</u>			
C. Particulate Monitor			
1. 1R-PR09C Particulate	1	6 <sup>1</sup> , 7 <sup>2</sup>	AI
2. 2R-PR09C Particulate	1	6 <sup>1</sup> , 7 <sup>2</sup>	AI
3. 1R-PR40A (Channel 1)	1	6 <sup>1</sup> , 7 <sup>2</sup>	AI
4. 2R-PR40A (Channel 1)	1	6 <sup>1</sup> , 7 <sup>2</sup>	AI
4. <u>Auxiliary Building Ventilation</u> <u>and</u> <u>Miscellaneous Ventilation Stack</u>			
A. Gas Activity Monitor			
1. OR-0014 or	1	6	AI
2. 1R-PR25 and 2R-PR25	1	6	AI
3. OR-PR18B Gas	1	6	AI
4. 1R-PR48E (Channel 5)	1	13	AI
5. 2R-PR48E (Channel 5)	1	13	AI
B. Iodine Monitor	1	15	AI
2. 1R-PR49C (Channel 3)	1	14	AI
3. 2R-PR49C (Channel 3)	1	14	AI
C. Particulate Monitor	1	6	AI
2. 1. OR-PR18A Particulate	1	6	AI
3. 1. 1R-PR49A (Channel 1)	1	14	AI
4. 2. 2R-PR49A (Channel 1)	1	14	AI
D. Flow Rate Monitor			
1. 1LP-084	1	9	AI
2. 2LP-084	1	9	AI
5. <u>Service Building Ventilation</u>			
A. Gas Activity Monitor			
1. OR-PR22	1	8	AI
B. Particulate/Iodine Monitor			
1. OR-PR36	1	8	AI

<sup>1</sup> During Venting<sup>2</sup> During Purging

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1. OR-PR12B →

1. OR-PR12A →

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TABLE 12.2-3RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION  
(Cont'd)TABLE NOTATIONS

- ACTION 5 - With the number of channels OPERABLE less than the minimum number required, the contents of the tank may be released to the environment provided that prior to initiating the release:
1. At least two independent samples of the tank's content are analyzed, and
  2. At least two technically qualified members of the facility staff independently verify the release rate calculations and discharge flow path valving;
- Otherwise, suspend release of radioactive effluents via this pathway.
- ACTION 6 - With the number of channels OPERABLE less than the minimum number required, effluent releases via this pathway may continue for up to 30 days provided grab samples are obtained at least once per shift and the samples are isotopically analyzed for gross activity within 24 hours.
- ACTION 7 - With the number of channels OPERABLE less than the minimum number required, and no redundant monitor OPERABLE in this flow path, immediately suspend PURCH of radioactive effluents via this pathway.
- ACTION 8 - With the number of channels OPERABLE less than the minimum number required, effluent releases via this pathway may continue for up to 30 days, provided samples are continuously collected and analyzed as required in Table 12.4-1.
- ACTION 9 - With the number of OPERABLE channels less than the minimum number required, effluent releases via this pathway may continue provided the flow rate is estimated at least once per shift while release is in progress.
- ACTION 10 - With the number of channels OPERABLE less than the minimum number required, restore the suspended monitor to OPERABLE status within 30 days or establish an alternate means of monitoring the parameter.
- ACTION 11 - With the number of OPERABLE channels less than the minimum number required, suspend vent and purge operations and close each vent and purge valve providing direct access from the containment compartment to the outside atmosphere or suspend the movement of gaseous fuel and reactor components in the vicinity of the reactor, refueling cavity, and transfer canal (containment side).
- ACTION 12 - With the number of OPERABLE channels less than the minimum number required, effluent releases via this pathway may continue provided the effluent flow is being accounted for in the total plant effluent.
- ACTION 13 - With the number of OPERABLE channels less than the minimum number required, restore the channel to OPERABLE status within 30 days or conduct a station review to determine a plan of action to restore the channel to OPERABLE status. Effluent release via this pathway may continue provided grab samples are taken at least once per shift and three samples are analyzed for gross activity within 24 hours.
- ACTION 14 - With the number of OPERABLE channels less than the minimum number required, restore the channel to OPERABLE status within 30 days or conduct a station review to determine a plan of action to restore the channel to OPERABLE status. Effluent release via this pathway may continue provided grab samples are continuously collected with auxiliary sampling equipment as required in Table 12.4-1.
- ACTION 15 - With the number of OPERABLE channels less than the minimum number required, Auxiliary Building Cubicle Ventilation shall be routed through the Auxiliary Building Ventilation charcoal adsorber units. This alignment shall be verified daily.
- Table 12.2-3 of the OOCM should be revised as indicated on the attached marked up copy.

TABLE 12.2-4

RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION SURVEILLANCE  
(Cont'd)

<u>INSTRUMENT</u>	<u>CHANNEL CHECK</u>	<u>SOURCE CHECK</u>	<u>CHANNEL CALIBRATION (1)</u>	<u>CHANNEL FUNCTIONAL TEST (2)</u>
<b>4. Auxiliary Building Ventilation and Miscellaneous Ventilation Stack</b>				
A. Gas Activity Monitor				
1. OR-0014 Gas or	D	M	R	Q
2. 1RT-PR25 and 2RT-PR25	D	M	R	Q
3. OR-PR18B	D	M	R	Q
4. 1R-PR49E (Channel 5)	D	M	R	Q
5. 2R-PR49E (Channel 5)	D	M	R	Q
B. Iodine Monitor				
1. 1R-PR49C (Channel 3)	D	M	R	Q
2. 2R-PR49C (Channel 3)	D	M	R	Q
C. Particulate Monitor				
1. OR-PR18A	D	M	R	Q
2. 1R-PR49A (Channel 1)	D	M	R	Q
3. 2R-PR49A (Channel 1)	D	M	R	Q
D. Flow Rate Monitor				
1. 1LP-084	D	N/A	R	Q
2. 2LP-084	D	N/A	R	Q
<b>5. Service Building Ventilation</b>				
A. Gas Activity Monitor				
1. OR-PR22	D	M	R	Q
B. Particulate/Iodine Monitor				
1. OR-PR36	N/A	N/A	N/A	N/A