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## CLASSIFICATION OF A LIQUID RELEASE

### A. PURPOSE

The purpose of this procedure is to aid in the initial GSEP classification of a liquid release by the GSEP Station Director (or Acting Station Director).

### B. REFERENCES

1. Generating Stations Emergency Plan (GSEP).
2. LCP 140-9, "Determination of Gross Beta Activity."
3. LCP 140-15, "Isotopic Analysis of Water Samples Using AAIS Software."
4. LCP 310-2, "Sampling at the Reactor/Turbine Building Process Sample Panel and the Feedwater Sample Panel."
5. LCP 410-1, "Preparation of Samples for Gamma Ray Spectrometer Measurements."
6. LCP 410-2, "Preparation of Aqueous Samples for Beta Analysis."
7. LZP 1330-8, "Sampling Liquid Process Monitors During Liquid Monitor High Radiation Alarm Conditions."
8. NRC Emergency Appraisal Report 50-373/81-14 and 50-374/81-09 (AIR 1-81-327).

### C. PREREQUISITES

1. None.

### D. PRECAUTIONS

1. None.

### E. LIMITATIONS AND ACTIONS

1. Initial classification will normally be based upon monitor readings. The Shift Engineer should direct the Radiation Chemistry Technicians to obtain and analyze a sample from the monitor in question in accordance with Reference 7. Based upon this sample, the Station Director (acting Station Director) should

evaluate the need to reclassify the event (Reference 8).

2. The service water and RHR service water systems are sampled and analyzed routinely. The classification of an Unusual Event would be predicated upon this analysis, since the monitors are incapable of measuring activity in the  $10^{-7}$  to  $10^{-6}$  uCi/ml range, to an acceptable confidence.

F. PROCEDURE

1. Assessment means.

a. Determination of activity from monitor readings:

1) Radwaste effluent monitor:

- a) Activity at monitor as Cs-137/Ba-137m equivalent:

$$\text{uCi/ml} = \frac{\text{cpm above background}}{2.2\text{E8}}$$

- b) Activity at discharge to river as Cs-137 equivalent:

$$\text{uCi/ml} = \frac{\text{uCi/ml at monitor}}{\frac{\text{Blowdown flow (gpm)}}{\text{Radwaste discharge flow (gpm)}}}$$

2) Service water effluent monitors:

- a) Activity at monitor as Cs-137/Ba-137m equivalent:

$$\text{uCi/ml} = \frac{\text{cpm above background}}{2.2\text{E8}}$$

b. Determination of activity from liquid samples:

- 1) Samples are taken in accordance with Reference 7 and/or Reference 4.
- 2) Samples are prepared and analyzed for isotopic analysis in accordance with Reference 5, and Reference 3.



- 3) The total sample activity is obtained as the sum of the individual isotope activities (uCi/ml).
- 4) Samples are prepared and analyzed for beta activity in accordance with Reference 6 and Reference 2.

c. Calculation of total curies released.

$$\text{Total Curies Released (Ci)} = (3.785\text{E-3})(\text{CFD})$$

where: C = Activity from F.1.a or F.1.b above (uCi/ml)

F = Radwaste Discharge/Service Water Flow (gpm)

D = Duration of release (min)

2. When analysis of liquid effluent releases exceeds the concentration limits of Attachment A or the total estimated activity of the discharge is above the limits of Attachment A, declare the appropriate condition.
3. Implement the actions specified in GSEP Section 6.0.
4. A GSEP condition declared on the basis of monitor readings (Step F.1.a) should be re-evaluated as described in Step F.1 as applicable, as soon as is practicable.

G. CHECKLISTS

1. None.

H. TECHNICAL SPECIFICATION REFERENCES

1. None.

APPENDIX A  
LSCS EMERGENCY ACTION LEVELS

LZP 1200- 4  
Revision 2  
November 4, 1983  
4 (Final)

CONDITION	UNUSUAL EVENT	ALERT	SITE EMERGENCY	GENERAL EMERGENCY
Class Description	Events in progress or have occurred which indicate a potential degradation of the level of Safety of the plant.	Events in progress or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant.	Events in progress or have occurred which involve actual or likely major failures of plant functions need for protection of the public.	Events in progress or have occurred which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity.
	<p>Liquid Effluents</p> <p>Estimated liquid release <math>&gt; 4</math> Ci but <math>\leq 40</math> Ci <math>&gt; 1 \times 10^{-7}</math> uCi/ml but <math>\leq 1 \times 10^{-6}</math> uCi/ml</p> <p>* Monitors: Radioactive liquid waste effluent radiation monitors Service water effluent monitor</p>	<p>Liquid Effluents</p> <p><math>&gt; 10^{-6}</math> uCi/ml as measured by monitors* and/or counting equipment or</p> <p>Estimated liquid release <math>&gt; 40</math> Ci but <math>\leq 2000</math> Ci</p>	<p>Liquid Effluents</p> <p>Estimated liquid release <math>&gt; 2000</math> Ci but <math>\leq 20,000</math> Ci</p>	<p>Liquid Effluents</p> <p>Estimated liquid release <math>&gt; 2 \times 10^4</math> Ci</p>