DG 1145 – Section C.I.11 Radioactive Waste Management



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Section outline.

Section references.

Content highlights.*

■ "To Do List.* "

* Presentation addresses only those review areas associated with Health Physics.

Outline

- 1. Source Terms.
- 2. Liquid Waste Management Systems.
- 3. Gaseous Waste Management Systems.
- 4. Solid Waste Management System.
- 5. Process and Effluent Radiological Monitoring and Sampling Systems.

ML060230015

References

10 CFR Parts 20, 50, 61, 71 and 100.
Regulatory Guides.
NUREGs.
Generic Letters, Branch Technical Positions, Information Bulletins.

ANSI standards (ANSI/HPS N13.1-1999).

Content Highlights

- Considerations of plant-specific features and sitespecific conditions not addressed in the certified design.
- Engineering issues in the selection, installation, and operation of mobile waste processing systems and radiation monitoring systems.
- Development of operational programs and procedures used to demonstrate compliance with effluent release criteria and dose limits.
- COL issues about 10 CFR 20.1406.

10 CFR 20.1406

COL applicants - address the requirements of 10 CFR 20.1406, in the context of:
Mobile systems, e.g., radwaste processing.
Operational programs and procedures.
Avoidance of system cross-contamination and unmonitored releases.

"To Do List"

If a COL application references a certified design,^{*} which areas remain to be reviewed by the NRC staff?

* assume no deviation from the certified design

Waste Management Systems

- Using plant-specific features and site-specific conditions, confirm that the design objectives and criteria have been met.
- Describe accordance with the requirements of 10 CFR 20.1406.
- Using plant-specific features and site-specific conditions, describe all effluent discharge points to the environment.
- Discuss system capability of and requirements for utilizing mobile processing equipment.

Waste Management Systems

- For site designs involving multi-unit stations, describe systems or subsystems that will be shared among units.
- Describe any operational program and/or procedure that will be used to demonstrate compliance with regulations, guidance documents, and effluent concentration and dose limits.

Radiological Monitoring & Sampling

- Describe effluent radiological monitoring instrumentation and sampling systems used to monitor and control radioactive releases.
- Using plant-specific conditions, describe the locations of instrumentation and sampling points.
- Describe how plant-specific conditions and operational program aspects of the monitoring and sampling system will follow regulatory guidance documents.

Questions..?

