Performance Assessments Legal Considerations

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License Issuance Requirements

- Issuance will not constitute unreasonable risk to public health and safety.
- Site design, operations, closure, and postclosure institutional controls meet performance objectives and are protective of public health and safety.
- Operations will allow licensee to meet postclosure monitoring and maintenance.

License Conditions

Executive Secretary may add conditions as necessary or appropriate:
to protect health; or
to minimize danger to life or property.

Performance Objectives

- Protect the general population from releases of radiation.
- Protect individuals from inadvertent intrusion.
- Protect individuals during operations.
- Site stability.

Stability of the Site After Closure

- Facility is to be sited, designed, operated, and closed to achieve long-term stability.
- Eliminate, to extent practicable, the need for ongoing site maintenance after closure.
- After closure, only surveillance, monitoring or minor custodial care should be needed.

"Depleted Uranium" Definition

Source material uranium in which the isotope uranium-235 is < 0.711 weight percent of the total uranium present.</p>

Depleted uranium does not include special nuclear material.

Note: "Unique waste streams" are not defined in Utah rules.

DU - Performance Assessment

Performance assessment required for the land disposal, after June 1, 2010, of > one metric ton in total accumulation of DU.

Performance assessment must meet the performance objections for total quantities of concentrated DU or other wastes already disposed of or proposed for disposal.

Performance Period, etc.

- Performance Assessment compliance period for DU: 10,000 years minimum.
- Where peak dose occurs: qualitative analysis of additional simulations.
- Performance Assessment shall be revised, as needed, to reflect ongoing NRC guidance and rulemaking.

Proposed Change to R313-25-8

The licensee or applicant shall conduct a site-specific performance assessment and receive Executive Secretary approval prior to accepting any radioactive waste if:

The waste is likely to result in > 10% of the dose limit in R313-25-19 during the time period at which peak dose would occur; or

Proposed Rule Change (cont'd.)

 The waste will result in > 10% of the total site source term over the operational life of the facility; or

The disposal of the waste would result in an unanalyzed condition not considered in the development of 10 C.F.R. § 61.55.