

REQUEST FOR ADDITIONAL INFORMATION

Purdue University License Renewal (TAC L32882)

Docket 70-152

License SNM-142

1. Describe how subcriticality will be maintained during the movement and use of the SNM “at campus locations approved by the Radiation Safety Committee.” The licensee needs to demonstrate how the parameters that are relied on to maintain criticality safety such as mass limits, spacing restrictions, and water moderation or reflection will be controlled during these operations such that subcriticality is maintained during all normal and abnormal operating conditions. This should include a discussion of how the conditions, controls, procedures, training and any other methods used by the licensee ensure that criticality safety is ensured.

Regulatory Basis

In accordance with 10 CFR Part 70.22 and 70.23, the licensee must describe the activity for which the SNM is requested, and the place at which the activity is to be performed and the general plan for carrying out the activity. The licensee must also describe how the equipment, facilities and procedures will protect health and minimize danger to life or property.

2. Describe the criticality monitoring system(s) and how it meets the requirements of 10 CFR 70.24 at the campus locations where SNM may be handled and moved as described in section 6.0 of the request, or provide a justification for an exemption as described in 10 CFR 70.17.

Regulatory Basis

In accordance with the requirements of 10 CFR 70.24, since the licensee is authorized to have more than 700 g U-235 on-site, it is required to have a criticality monitoring system in all areas where SNM is handled, used, or stored, even if the licensee does not handle, use, or store the SNM in a single area.