

## **ATTACHMENT 1**

### **Utah Contention V – Inadequate Incorporation of Transportation-Related Radiological Environmental Impacts**

The Environmental Report (“ER”) fails to give adequate consideration to the transportation-related environmental impacts of the proposed ISFSI in that:

1. In order to comply with NEPA, PFS and the NRC Staff must evaluate all of the environmental impacts, not just regional impacts, associated with transportation of spent fuel to and from the proposed ISFSI, including preparation of spent fuel for transportation to the ISFSI, spent fuel transfers during transportation to the ISFSI, transferring and returning defective casks to the originating nuclear power plant, and transfers and transportation required for the ultimate disposal of the spent fuel.
2. PFS’s reliance on Table S-4 is inappropriate and inadequate. 10 C.F.R. § 51.52 applies only to light-water-cooled nuclear power plant construction permit applicants, not to offsite ISFSI applicants. Even if 10 C.F.R. § 51.52 applied, PFS does not satisfy the threshold conditions for using Table S-4, and its reliance on NUREG-1437 is misplaced. Since the conditions specified in 10 C.F.R. § 51.52(a) for use of Table S-4 are not satisfied, the PFS must provide “a full description and detailed analysis of the environmental effects of transportation of fuel and wastes to and from the reactor” in accordance with 10 C.F.R. § 51.52(b).
3. The SAR is inadequate to supplement Table S-4 in that:
  - a. The Applicant fails to adequately address the intermodal transfer point in that the analysis utilizes unreasonable assumptions regarding rail shipment volume and its associated effects.
  - b. The Applicant fails to calculate impacts of the return of substandard or degraded casks to the originating nuclear power plant licensees, including additional radiation doses to workers and the public.
  - c. The Applicant fails to address the environmental impacts of any necessary intermodal transfer required at some of the

originating nuclear power plants due to lack of rail access or inadequate crane capability.

4. New information shows that Table S-4 grossly underestimates transportation impacts in that:
  - a. WASH-1238, which is the basis for Table S-4, uses poor and outdated data, and hence the Applicant's reliance on WASH-1238 and Table S-4 is inadequate to demonstrate compliance with NEPA;
  - b. WASH-1238 does not quantify the risks of spent fuel transportation. 10 C.F.R. § 51.45(c) requires that, to the extent practicable, the cost and benefits of a proposal should be quantified;
  - c. WASH-1238 does not address accidents caused by human error or sabotage;
  - d. WASH-1238 does not include up-to-date analyses of maximum credible accidents;
  - e. WASH-1238 does not address the potential for degradation of fuel cladding caused by dry fuel storage;
  - f. WASH-1238 does not address the greater release fraction from severe accident consequences demonstrated in recent analyses;
  - g. WASH-1238 does not address specific regional characteristics of impacts on the environment from transportation and therefore is inadequate to satisfy 10 C.F.R. § 72.108;
  - h. WASH-1238 does not address circumstances and consequences of a criticality event of a representative rail transportation cask with a large capacity (capacity greater than a critical mass of fuel);
  - i. WASH-1238 does not contain information from the more recent and more accurate dose modeling RADTRAN computer program;
  - j. WASH-1238 does not address a representative transportation distance for the shipment of spent fuel from the originating nuclear power plants. WASH-1238 assumes an ap-

proximate distance of 1000 miles. The PFS acknowledges that the distance may be more than twice that amount. ER at 4.7-3.

Private Fuel Storage, L.L.C. (Independent Spent Fuel Storage Installation), LBP-98-7, 47 NRC 142, 199-200 (1998).

**UNITED STATES OF AMERICA**  
**NUCLEAR REGULATORY COMMISSION**

Before the Atomic Safety and Licensing Board

In the Matter of )  
 )  
PRIVATE FUEL STORAGE L.L.C. ) Docket No. 72-22-ISFSI  
 )  
(Private Fuel Storage Facility) )

**CERTIFICATE OF SERVICE**

I hereby certify that copies of "Applicant's Response to State of Utah's Request for Admission of Late-Filed Amended Utah Contention V" was served on the persons listed below (unless otherwise noted) by e-mail with conforming copies by U.S. mail, first class, postage prepaid, this 18th day of October 1999.

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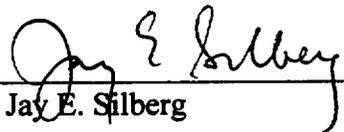
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