

**PROJECT NAME: Unreviewed Safety Question Review and Subsequent Safety Evaluation Report of Supercompactor and Repackaging Facility (SARF)**

**PROJECT DESCRIPTION:**

In response to guidance from DOE/Rocky Flats Operations (RFO), an initial subtask was the preparation of a preliminary Unreviewed Safety Question (USQ) analysis and report per NRC guidance, CFR 50.59, and DOE Draft Order 5480.YY, for the Supercompactor and Repackaging Facility (SARF). The SARF is located in Building 776 and was designed to volume-reduce hard and soft transuranic (TRU) waste and TRU mixed waste.

This report was qualitative and focused on the use of a Failure Mode and Effects Analysis to determine those accidents which were of significant concern. The analysis found that there was no USQ. Following review by DOE/RFO of findings, a semi-quantitative analysis including detailed site and facility support systems descriptions and a rigorous analysis of design-basis accidents was requested. With this guidance, a Safety Evaluation Report was produced which contained a complete review of the Impacts of Normal Operations, Potential Impacts of Natural Phenomena Events, and Potential Impact of Operational Accidents. The report included a description of the facility site location, the SARF, facility support systems, and operating controls and limits.