

DOE-ID NEPA CX DETERMINATION

SECTION A. Project Title: Design/Prototype Fabricate Rail Car for High Rad Mat Transport – Kasgro Rail Corp.

SECTION B. Project Description

The purpose of this proposal is to obtain a certification from the American Association of Railroads (AAR) on a fully constructed and tested railcar system for transporting spent nuclear fuel (SNF). The transport system will allow transporting SNF by rail to occur at normal rail speeds thus eliminating delays on rail lines and all more rapid transport of SNF to future specified locations. AREVA Federal Services, in collaboration with Kasgro Rail Corp., will design and fabricate a prototype cask car and buffer cars for the transport system.

SECTION C. Environmental Aspects / Potential Sources of Impact

Chemical Use/Storage / Chemical Waste Disposal / Hazardous Waste Generation / Industrial Waste Generation – A lacquer solvent is used for paint equipment clean-up. Kasgro Rail Corp. is a low quantity generator of hazardous, chemical, and industrial waste.

Air Emissions – Annual volatile organic compound (VOC) output averages approximately 2,165 lbs. for a 12 month time period.

SECTION D. Determine the Level of Environmental Review (or Documentation) and Reference(s): Identify the applicable categorical exclusion from 10 CFR 1021, Appendix B; give the appropriate justification, and the approval date.

Note: For Categorical Exclusions (CXs) the proposed action must not: 1) threaten a violation of applicable statutory, regulatory, or permit requirements for environmental, safety, and health, including requirements of DOE orders; 2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities; 3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that pre-exist in the environment such that there would be uncontrolled or unpermitted releases; 4) adversely affect environmentally sensitive resources. In addition, no extraordinary circumstances related to the proposal exist which would affect the significance of the action, and the action is not “connected” nor “related” (40 CFR 1508.25(a)(1) and (2), respectively) to other actions with potentially or cumulatively significant impacts.

References: B2.4 Activities undertaken to (1) qualify equipment for use or improve systems reliability or (2) augment information on safety-related system components. These activities include, but are not limited to, transportation container qualification testing, crane and life-gear certification or recertification testing, high efficiency particulate air filter testing and certification, stress tests (such as “burn-in” testing of electrical components and leak testing), and calibration of sensors or diagnostic equipment.

B3.4 Drop, puncture, water-immersion, thermal, and fire tests of transport packaging for radioactive or hazardous materials to certify that designs meet the applicable requirements (such as 49 CFR 173.411 and 173.412 and 10 CFR 71.73).

Justification: The activity consists of the design and fabrication of a prototype railcar system that meets the certification requirements of the AAR..

Approved by Jack Depperschmidt, DOE-ID NEPA Compliance Officer on 09/23/2015