

Fact Sheet

Zion Station Decommissioning and Site Restoration



Transportation of Radioactive Material



Large Component Transportation
Rail shipment utilizing special shielding and packaging requirements



Waste Loading
Loading SuperSacs in EnergySolutions' supergondola railcars



Most of the plant equipment, piping, and building demolition debris from the Zion Station decommissioning project will be loaded and transported by rail to EnergySolutions' licensed disposal facility in Clive, Utah. This type of waste is classified as Class A low-level radioactive waste (LLRW), the lowest and most benign category.

All waste is packaged to meet DOT requirements for commercial transport. Transportation and security plans must be submitted to and approved by the DOT prior to shipment.

Large components, such as reactor vessels and steam generators, will be packaged and shipped intact in cradles on flatcars. They are also Class A LLRW and will be transported by rail to Clive for disposal.

Radioactive material shipments are tracked through satellites and other communications. ZionSolutions will apply the extensive logistics expertise of EnergySolutions to plan the right use of rail and truck for moving waste out of the State of Illinois. Services

Quick Facts

- Each year, there are approximately three million shipments of radioactive materials in the United States.
- EnergySolutions has managed the shipment of more than 80 large components from nuclear power plants – more than any other firm in the U.S.
- In 50 years of transportation, there has never been a person injured in a significant accident involving radioactive material transportation.
- Rail transport is one of the most cost-effective modes for transporting large volumes of material. This method is highly suited for shipment of the Class A LLRW waste from the Zion Station site.

encompass all aspects of transport, including obtaining required local and federal licenses and permits, loading and bracing shipments, and conducting vehicle radiation surveys.

All transportation operations conducted by ZionSolutions will meet the requirements of the Department of Transportation (DOT), Nuclear Regulatory Commission (NRC), the State of Illinois, and the Transportation Security Administration (TSA), including post-9/11 security plans.

For more information:

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