



Packaging & transportation

Package design and transport operations

Orano's packaging and transportation core competencies

CASK DESIGN

Orano develops designs and conducts engineering analyses—including structural, thermal, shielding, and criticality analyses—for normal and hypothetical accident conditions.

LICENSING

Orano's development of Safety Analysis Reports for cask licensing includes detailed analyses of calculations and drawings and supports Requests for Additional Information.

FABRICATION

Orano delivers quality hardware by procuring equipment, fabricating, and managing vendors in compliance with the Orano Quality Assurance program.



Orano has the capabilities to provide customized and comprehensive solutions from package design to transport operations. Orano personnel have a broad base of technical skills and the experience to execute nuclear, mechanical, structural, and thermal design analysis along with fabrication and testing of transportation and handling equipment.

Orano develops designs, fabricates, and licenses packages that meet the U.S. Department of Energy and U.S. Nuclear Regulatory Commission (NRC) requirements for transportation packages on a daily basis.

Orano performs engineering analyses or physical testing on these designs, including structural, thermal, shielding and criticality analyses for normal and hypothetical conditions. Orano blends proven analytic methodologies with modeling techniques. Orano's analytical skills consist of specialized engineering disciplines such as engineering structures; dynamics, mechanics, heat transfer, containment, shielding and criticality that are integrated to provide realistic solutions. All licensed packaging engineering work is performed in accordance with an NRC approved 10 CFR 71 Subpart H Quality Assurance Program.

Orano also provides transport operations. Orano currently provides professional skilled



BEA Research Reactor cask

staff to coordinate and support packaging and transportation activities at the Idaho National Laboratory. This includes on-site staffing and management of hazardous material packaging and shipping for a wide variety of radioactive wastes, sources, fuel, and other hazardous materials. Shipments occur on a daily basis without event – proving Orano's capability to safely and efficiently transport waste.

The Orano packaging and transportation group accomplish between 1,000 and 2,000 hazardous and radioactive shipments each year. Orano uses a centralized, highly trained and focused operations staff that includes subject matter experts in the areas of U.S. Department of Transportation and Federal Motor Carrier Safety Regulations. Orano has been performing these functions domestically and internationally for 10 years with no non-conformance reports issued against our program.

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