

International Conference on Management of Spent Fuel from Nuclear Power Reactors: An Integrated Approach to the Back End of the Fuel Cycle



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AREVA OPERATIONAL EXPERIENCE IN INTERIM DRY STORAGE

For more than 50 years, AREVA TN, part of the AREVA Group, has offered a complete range of transport and interim storage solutions for radioactive materials throughout the entire nuclear fuel cycle.

Interim storage of used nuclear fuel is a reliable intermediate solution while waiting for a decision concerning disposal sites or recycling. Intermediate storage is safe as shown by important industrial feedback and the operational records.

AREVA has developed different Used Nuclear Fuel dry storage solutions worldwide. Since the '80s AREVA TN has developed an entire set of transport and storage casks, the TN®24 family. Composed of 20 types of casks, this family has a wide range of capacities from 21 PWR to 97 BWR used fuel elements. These casks are currently in operation in Europe, the United States and Japan to safely provide interim storage of used fuel elements. In parallel, another type of interim storage system, the NUHOMS®, has been developed mainly for the US market. To date NUHOMS® is the dry storage solution of choice of more than 50% of U.S. nuclear facilities.

Up to now more than 1,000 dry storage systems designed by AREVA have been loaded throughout the world, representing a significant track record.

The purpose of this paper is to present an overview of the solutions designed by AREVA for used nuclear fuel management, and specifically the different systems currently in operation in several Interim Storage Facilities throughout the world. This paper broaches as well some considerations related to the Safety Evaluation and Management program.

Country/ int. organization

FRANCE / AREVA TN

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