

Regulatory Guides for Spent Fuel Storage using Metal Dry Cask in Japan

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These guides provided here are a summary of basic philosophy in performing Safety Review of Spent-fuel Interim Storage Facilities which introduce spent fuels from power reactors in a metal dry cask, store a long period and transfer.

The spent-fuel interim storage facilities assume that 40-60 years of storage term.

These guides provided

- The Spent-fuel Interim Storage Facilities are built independently with the nuclear power plant.
- Spent-fuel is stored in a metal dry cask without refilling it to another container.
- After storage for predetermined period, the dry cask is transferred to outside facilities.
- A cover of the metal dry cask is not assumed to open for inspection of the stored spent-fuel.
- Spent-fuels stored in this facilities are UO₂ and MOX fuel.
- Long term integrity of casks and spent fuels inside is assumed.
- Spent-fuels are to be cooled for a necessary period at the power plant site.
- The nuclear power plant operation data and fuel sipping inspection shall confirm the long-term integrity of the fuel assembly.