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Establishment of thermal analysis scenario of spent fuel dry cask on short-term operation process

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Short-term operation process of spent fuel means the series of steps occurring in spent fuel building, from loading of spent fuel into shipping casks before transportation. This process includes loading of fuel into shipping casks, sealing of lids, drainage inside canister, drying, and backfilling. The distribution of peak cladding temperature of spent fuel over time tends to be different for wet process, vacuum drying process because heat transfer environments and heat transfer modes are changed. The paper aims to establish thermal analysis scenario on spent fuel short-term operation process for independent verification thermal model.

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Country or International Organization

Korea, Republic of

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