NUHOMS® OS200 Transfer Cask

This type of On Site Transfer Cask (OSTC) is used by most of the NUHOMS® Systems currently in operation. The NUHOMS® OS200 transfer cask is made primarily of stainless steel and incorporates gamma and neutron shielding materials. The exterior shell has a highly polished surface finish or is coated with Carboguard 890N to facilitate decontamination. The transfer cask has a 199.25 inch-long cavity, which allows it to be used for both PWR and BWR canisters.

The transfer cask is constructed from two concentric cylindrical steel shells with a bolted top cover plate and a welded bottom end assembly. The annulus formed by these two shells is filled with cast lead to provide gamma shielding. The transfer cask also includes an outer stainless steel jacket, which is filled with water for neutron shielding. The top and bottom end assemblies incorporate a solid neutron shield material. The transfer cask is designed to provide sufficient shielding to ensure that dose rates are ALARA.

The shell materials are resistant to corrosion and are not susceptible to galvanic reactions. The NUHOMS® transfer cask has been used successfully in PWR and BWR used fuel pools and has never exhibited an adverse interaction with the spent fuel pool water.

The minimum on-hook weight of the OS200 is under 105 tons using a light yoke, and 108 tons using a standard steel yoke.

This cask can be used with different diameter Dry Shielded Canisters (DSCs) by using an internal sleeve. This feature minimizes the cost for customers with different diameter DSCs and also increases options for using other available transfer casks in case of emergencies.

About TN Americas

TN Americas is a leader in the American nuclear market offering innovative total systems solutions for used fuel and radioactive waste management and transportation. More than 50 percent of American nuclear plant operators use TN's used fuel storage or transport solutions, irradiated waste removal and processing, and pool to pad services.

TN Americas' track record of providing safe storage and transportation of used fuel is driven by state-of-the-art products and services, innovative engineering solutions, and integrity in meeting customer expectations for low-dose and error-free campaigns. TN Americas customers include utilities, reactor operators, research reactors and the U.S. government.

TN Americas' products are marked by the highest standard of safety, uncompromising commitment to quality and operational dependability, and "as promised" service integrity.

TN Americas
Be Certain.™

Technical Features

Payload:

DSC Outside Diameter of 69.75 inches or 67.25 inches with the inner sleeve

Materials of Construction:

Stainless Steel Shell and Cover Plates

Shielding is Lead, NS-3 and Water

Physical Data:

Outside Diameter is 92.11 inches

Outside Length is 206.72 inches

Cavity Length is 199.25 inches

Weight, Empty is 130,000 lbs

Weight, Loaded depends on the DSC and yoke used

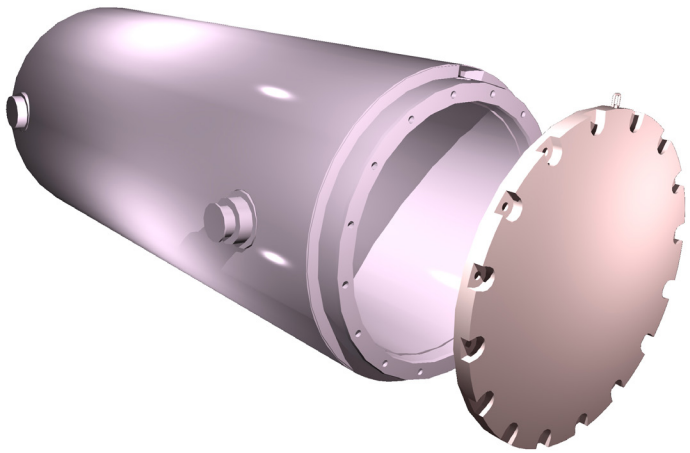
Design Parameters

Required Crane Capacity – 125 tons

Thermal Capacity — Up to 40.8 kW (w/vented lid) and spacers at the bottom as needed

Maximum Ambient Temperature is 125°F

Minimum Ambient Temperature is 0°F



Features and Benefits

- Used by most of the NUHOMS® Systems currently in operation
- Exterior shell has a highly polished surface finish to facilitate decontamination
- Can be used for both PWR and all of our BWR canisters
- Designed to provide sufficient shielding to ensure that dose rates are ALARA
- Has never exhibited an adverse interaction with the PWR or BWR spent fuel pool water

TN Americas

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