



DUFRANE NUCLEAR SHIELDING, INC.

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DUFRANE NUCLEAR SHIELDING DESIGN: MODULAR/REUSABLE/COST EFFECTIVE

FILTER HANDLING SYSTEMS

DUFRANE'S Filter Handling System minimizes radiation exposure when removing spent filters from filter housings. 100% remote operation prevents inadvertent leakage of radioactive liquid and contamination to the area surrounding the filter cubicle. The equipment we offer is cost effective, simple in concept, provides safeguards against accidents, and minimized dose rates. The system is custom designed for each end users needs.

Filter Handling Procedure in Brief:

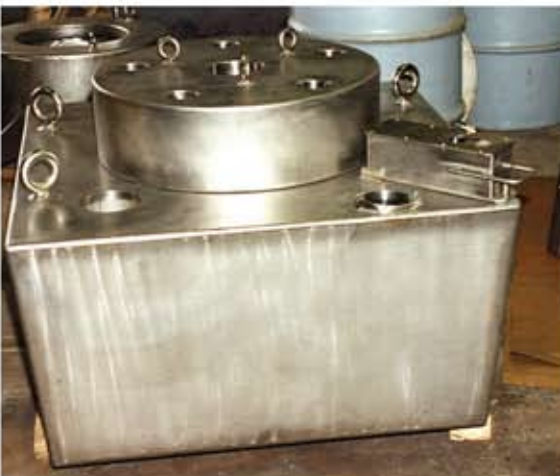
This procedure begins in the filter cubicle area. The fully assembled Filter Transfer Cask is moved to a point adjacent to the specific spent filter location. The concrete cubicle hatch is removed and replaced with a Working Shield, the Filter Housing bolts are unfastened and the filter housing lid is opened. The Filter Transfer Shield Base Plate is removed and the drip pan is retracted prior to replacing the Working Shield Central Plug. With the shield in place, an electro-mechanical or manual Remote Filter Grapple engages the spent filter and retracts it within the shield. All of these procedures may be monitored through a leaded glass viewing window. The drip pan is engaged, the loaded shield is returned to its base plate and is secured. A new filter may now be installed in its housing and the Transfer Shield moved to a storage container where the spent filter is ejected. Complete Operating Procedures are provided by Dufrane.

Features:

- Manual or electronic remote operation available
- Stainless steel encased shielding material
- Transfer Cask with liquid drip pan
- Meets all ALARA safety requirements
- Ability to monitor operations via shielded viewing window



Shown above, right: A Spent Filter Shield equipped with a sliding lid and lockable stainless steel drip pan. Four V-groove wheels roll along stainless steel tracks to retract the cover.



Shown to the left: Working Shield assembly replaces the filter cubicle hatch cover.

Dufrane will work closely with you, your site ALARA coordinator, and your engineering team to assure the best design for each application. At the time you anticipate the need for Filter Handling Systems or please initiate a discussion with us.

You've Got a Problem...We've Got a Solution!