

DUFRANE NUCLEAR

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DUFRANE NUCLEAR SHIELDING DESIGN: MODULAR/REUSABLE/COST EFFECTIVE

OUTAGE CHECKLIST

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 a Reactor Head Stand Shield, Drum Shield, Window Water Shield, Modular Water Shield or any other outage related product please initiate a discussion with us.

OUTAGE CHECKLIST

Frisker Caves

Reduces background radiation, count time and utilizes your exposed lead bricks.

Inside dimensions 8" x 13 3/4" x 8".

- FC-2** 2" lead equivalent shielding
- FC-4** 4' lead equivalent shielding

Small Article Monitor Shield

Reduces employee downtime and maximizes efficiency by eliminating background radiation.

Inside dimensions 27" x 22" x 33 1/2".

- SAM-9**

Carts

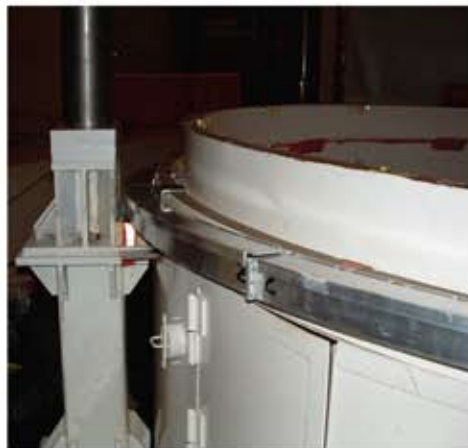
Carts have a 34" x 28" table and a capacity of 4000 lbs. They are equipped with 8" diameter by 2" wide casters with poly treads. A floor lock is provided between the swivel casters for anchoring, use with:

- Frisker Caves**
- Small Article Monitor Shields**
- Storage Lockers**
- Designed to suit specific applications**

Reactor Head Stand Shields

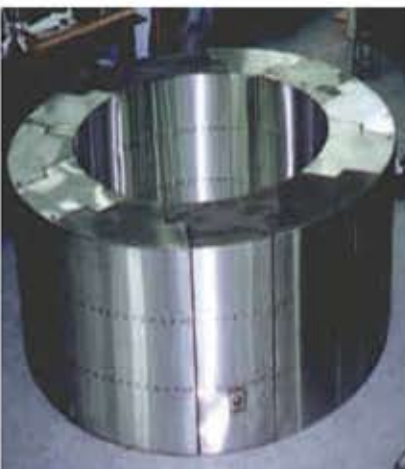
Safety during maintenance and replacement of components. Components for reactor head stand shields include hinged access doors, HEPA inlet/outlet penetrations, air sample penetrations and plugs for all penetrations.

- Lead Encased in Steel**
- Stainless Steel Modular (Water)**
- Concrete**
- Other Material Combinations**



Shown above, left: FC-2 Model Frisker Cave with RM-14 Radiation Monitor. Shown above, right: Reactor Head Stand Shield installed on site, constructed of lead encased in steel. Typically, Reactor Head Stand Shields consist of 4 to 6 segments and outside diameters range from 13'-0" to 14'-4".

Shown below: Stainless steel, modular, water, Reactor Head Stand Shields featuring a stepped interface between segments to eliminate streaming.



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



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Drum Shields available with sliding or fully removable covers as shown above. Also available with lift lugs, fork pockets or heavy duty casters for transport.



Shown above, left: Modular Shield Wall
Shown above, right: Concrete Modular Log Shield Wall being erected.



Ball and socket water shield shown above, left. Streaming at interface of each module is eliminated by design and units can be easily transported by using a fork truck, overhead crane or can be moved by hand when empty.

Window Water Shield shown above, right. Allows for clear viewing of an operation without interruption while providing 1.5" lead equivalent shielding.

Drum Shields

Chemical grade lead encased within stainless steel or carbon steel shells. Carbon steel shells painted with rust inhibitive primer and 2 coats of semi-gloss paint.

- 55 Gallon Drum Shield
- Filter Transfer Shields

Modular Shield Walls

Constructed of steel reinforced concrete, modules can be stacked or aligned to form a shield wall. Ends can be cylindrical for positioning at angles of up to 45 degrees.

- Concrete Modular
- Concrete Logs
- Concrete Ball and Socket Interface
- Other Material Combinations

Window Water Shields

Rugged stainless steel tank with a 1" thick acrylic window on the top half for viewing.

- Basic
- With fold up bench
- With fold up desk
- Blanket Rack
- Variable dimensions to suit your needs

Water Shields

Nominally, twelve inches of water is equal to one inch of lead shielding. Constructed of 300 series stainless steel and may be designed for a multitude of applications and configurations.

- Modular Water Shields
- Ball and Socket Water Shields

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