



DUFRANE NUCLEAR SHIELDING, INC.

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DUFRANE NUCLEAR SHIELDING DESIGN: MODULAR/REUSABLE/COST EFFECTIVE

TURBINE DECK SHIELDS

DUFRANE's Turbine Deck Shields, Turbine Deck Pipe Shields, and shields for Dust Collecting HEPA Systems are specifically designed to minimize radiation in adjoining areas. For example, Dufrane's High Pressure Turbine Shield consists of two "L" shaped, mirror image, concrete wall assemblies which are located adjacent to the High Pressure Turbine. They are braced with 12" steel channels and are constructed of steel reinforced concrete. There is an additional shield located at the top of the wall to shadow the steam inlet. The modularly designed shields can be installed quickly and easily during an outage and will not take up valuable space on the turbine deck due to their configuration.

Other features include:

- Steel plates and support beams on the exterior to provide maximum stability to extend the shield's footprint over existing floor beams.
- 5" thick steel access door for instrument and valve inspection.
- 5,000 lb steel door, which can be opened with ease by one technician.
- Integral floor tie down angle and fastened structural members.
- Reinforced concrete with 10" thick walls.
- Two coats of epoxy paint.



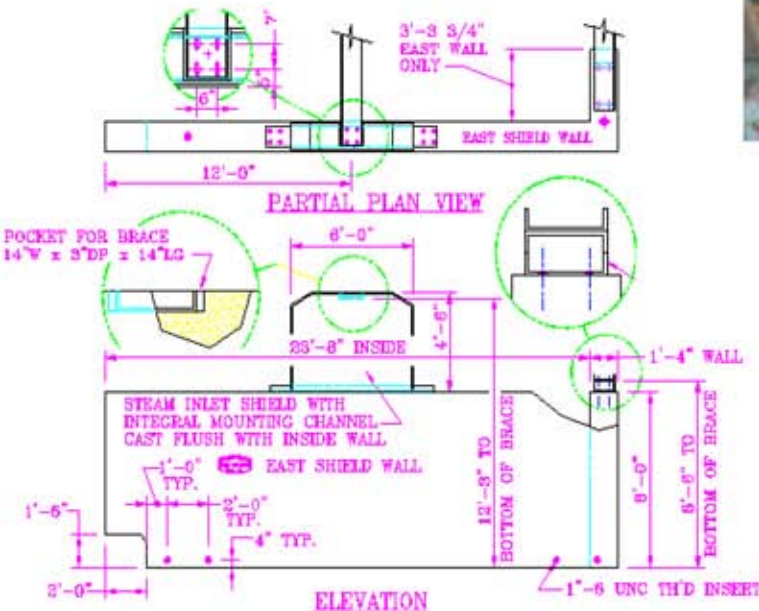
Turbine Deck Pipe and Valve Shields:

- Cave type concrete shield with 10" thick sides and roof.
- Penetrations to monitor gauges and valves.
- Can be customized to suit applications.

HEPA/Dust Collector Shield:

- Available in concrete or lead and steel construction.
- May be completely enclosed with hinged doors or feature an open end with a security gate.

All concrete shields are available with a two part epoxy coated finish.



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 Turbine Deck Shielding, please initiate a discussion with us.

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