

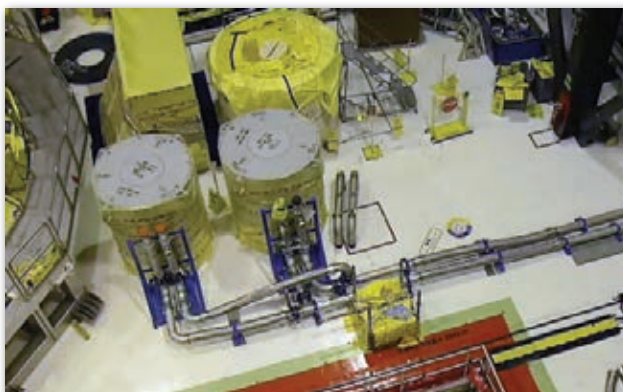
AVANTech offers custom designed process and shipping casks. Two popular models are the AVANTech Shield (ASH)-120 and the AVANTech Transport Shield (ATS)-215 shipping cask. The ASH-120 shield is designed to provide 4½ in. of lead equivalent shielding and to integrate perfectly with AVANTech's Solids Collection Filter (SCF™) and 8-120 size containers. The ATS-215 shipping cask is designed for transport liners up to 215 ft³. Optional steel inserts of 1-3 in. (with or without tops/bottoms) are available. AVANTech can also provide other custom designed shields and casks to meet our customers' specific needs.

ASH-120 Shield Features

- ✓ Designed to hold 120 ft³ steel liners or polyethylene high integrity containers
- ✓ Integrates perfectly with AVANTech's SCF™ and 8-120 size containers
- ✓ Inside cavity dimensions: 62¼ in. inside diameter and 76⅞ in. inside height
- ✓ Overall shield dimensions: 74½ in. diameter (86½ in. diameter including lifting lugs) and 87 in. tall (approx. 94 in. tall including shackles)
- ✓ Shield weight: 48,260 lbs tare weight, 63,680 lbs maximum gross loaded with liner
- ✓ Secondary processing lid to shield processing influent/effluent piping
- ✓ Outer surface painted with high quality durable epoxy paint
- ✓ Designed to meet all refuel floor lift requirements of NUREG 0612-1980 (10:1 safety factor) and designed, fabricated, and tested per ANSI N14.6-1993

ATS-215 Shield/Cask Features

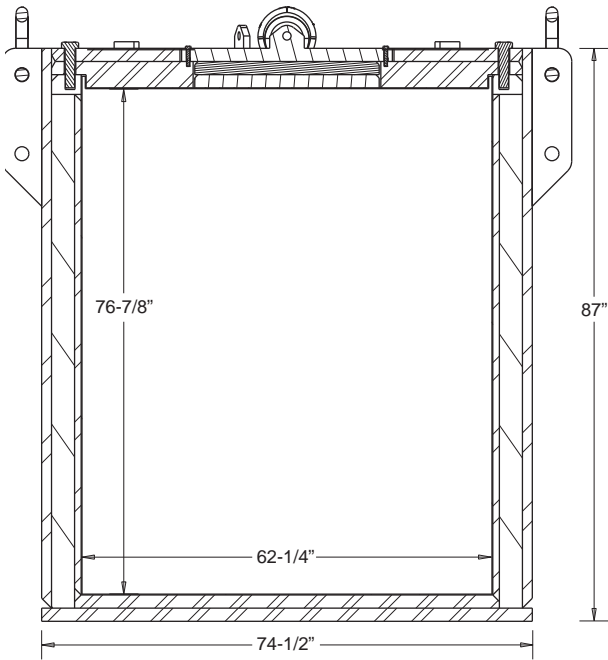
- ✓ Capacity up to 215 ft³ transport liners, with ratchet binders to secure the primary lid that operate similarly as the common 14-210H and 14-215 shipping casks
- ✓ Inside cavity dimensions: 77 in. inside diameter and 79¼ in. inside height
- ✓ Overall cask dimensions: 83⅝ in. diameter and 87½ in. tall
- ✓ Cask weight: 38,000 lbs tare weight, 58,000 lbs maximum gross weight
- ✓ Steel-lead-steel body consisting of 1 in. thick outer carbon steel shell, ⅜ in. thick inner carbon steel shell, 1¾ in. thick concentric lead cylinder filling space between outer and inner shells, and ⅛ in. thick stainless steel lining inside surface of cask body
- ✓ Cask bottom, primary lid, and secondary lid consisting of two, 2-in. thick carbon steel plates with ⅛ in. thick stainless steel lining over inside surface
- ✓ Outer surface painted with high quality durable epoxy paint
- ✓ Designed to meet 49 CFR 178.350 Specification 7A, General Packaging Type A, and 49 CFR 173.411 Industrial Packaging Type 1 and 2 (IP-1 and IP-2) requirements for low specific activity material



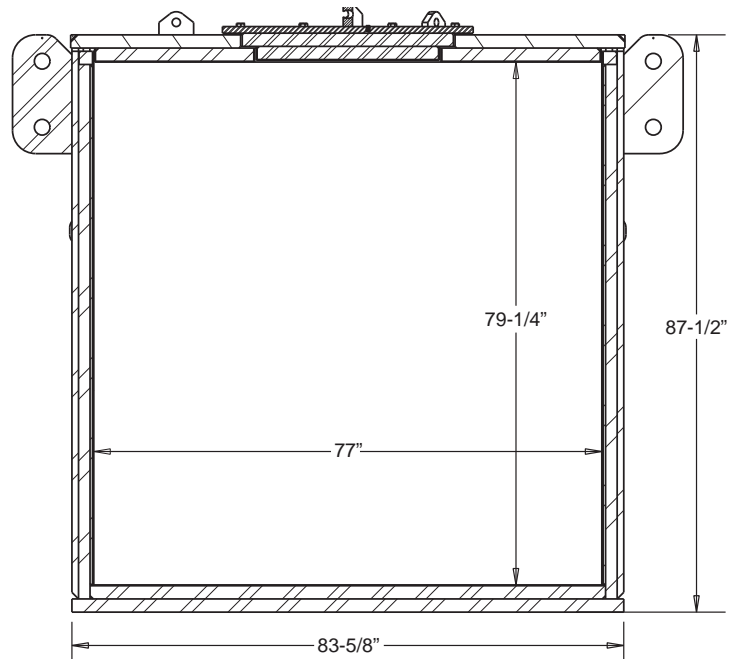
Dual SCF™ System with Two AVANTech ASH-120 Shields Positioned on the Refuel Floor

AVANTech Process Shields and Shipping Casks

ASH-120 Process Shield



ATS-215 Transport Shield/Cask



ASH-120 Process Shield on Transport Trailer



ATS-215 Shipping Cask on Transport Trailer



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