Title: Proton Radiography photos for "Dirty Jobs"

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Intended for: "Dirty Jobs" TV show
The PRAD Cave

Here is a photo of the proton radiography “cave” which we use to contain the radiation involved in producing a proton radiograph. The high explosives are contained in the six foot steel vessel on the left; the high energy proton beam passes through the vessel in the steel pipe leading across the floor.
Proton Radiography at LANSCE

Here is a picture of a typical proton radiography experiment in progress. This is a piece of aluminum metal being driven from below by a high explosive charge.

Here is one of our explosives technicians, Joe, inside the six foot diameter steel ball that contains the explosive shots. The high energy proton beam passes from left to right. The shot is the little package to Joe’s right. After the shot, everything in the vessel will be destroyed and reduced to sooty rubble.