

**Date:** April 15, 2004

**Subj:** APS drawings [25030101-00018](#) PAR dipole magnet chamber B-1  
[25030101-00019](#) PAR dipole magnet chamber B-2

**Spare status:** Spare chamber B-2 complete;  
Storage location: bldg 382;  
Certification: leak report by vendor, but not certified by ASD;  
Request for vacuum certification pending



Fig. 1: Storage location of B-2 chamber in 382 (open cabinets on mezzanine)



Fig. 2: Spare B-2 vacuum chamber (with lightport)

#### Further details:

- **B-1 Dipole Magnet Chamber (APS drawing [25030101-00018](#))**

This item is the “standard” PAR dipole chamber that is installed in six bending magnets. It is similar to the chamber shown in Fig. 2 except that it has no lightport.

Use chamber B-2 (drawing [25030101-00019](#)) lightport chamber as the spare for B-1.

In 2002, the area adjacent to the six dipole magnets where the B-1 chambers are installed was visually inspected. At that time no interferences with the lightport portion of the spare was noticed.

- **B-2 Dipole Magnet Chamber (APS drawing [25030101-00019](#))**

This item is the special PAR dipole chamber that is installed in two bending magnets. Three such chambers were manufactured (one as the spare). This chamber is considered special because it has a lightport.

Use chamber B-2 (drawing [25030101-00019](#)) lightport chamber as the spare for B-2.

- Photos of installed chambers

A photo of one end of an installed B-1 chamber is shown in Fig. 3. A photo of one of the lightports is shown in Fig. 4.

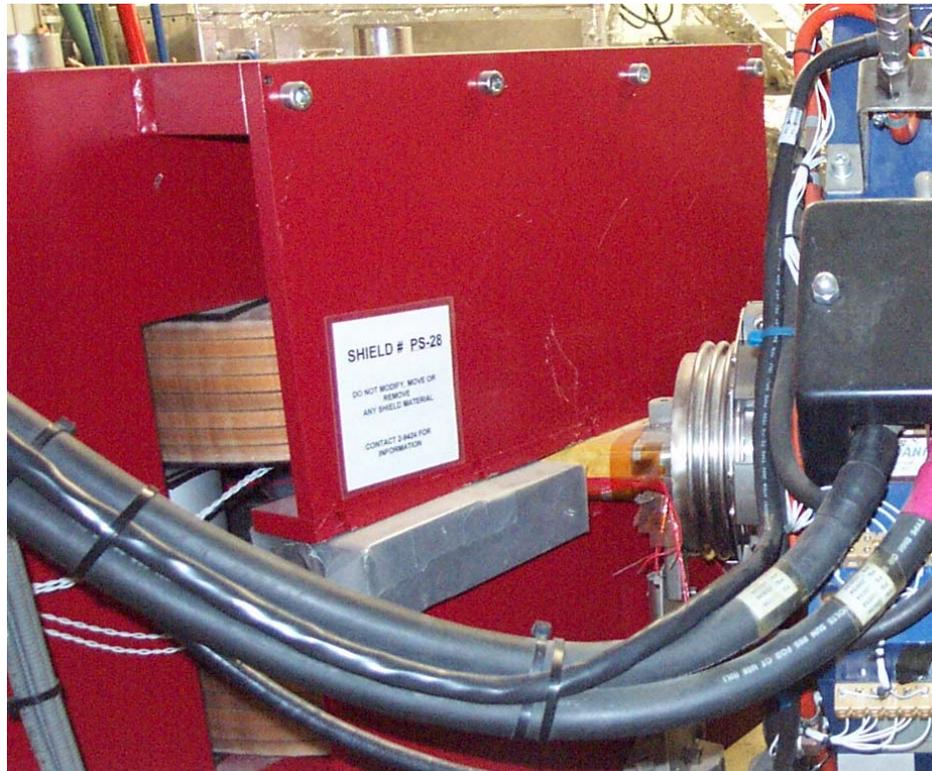


Fig. 3: Bellows end of a B-1 vacuum chamber in a dipole magnet in PAR.



Fig. 4: Light port extension tube from B-2 vacuum chamber in PAR.