

## Memo

To: JLab Alignment Group  
From: Steven Williamson  
Re: Fiducial Placement on G0 SMS

Retro-reflective “vector” targets were inserted in the alignment target holders after they were welded to the G0 SMS cryostat. Each of the targets has two reflective dots separated by 1 inch. In Figures 1 and 2, taken with a photoflash from floor level, the retro-reflective dots show up clearly. The placement of the 16 cryostat fiducals on the beam-left and downstream ends of the cryostat are indicated by arrows. 16 additional target holders are located in similar spots on the beam-right and upstream sides.



Figure 1. Beam left side of G0 SMS with fiducials indicated by arrows.

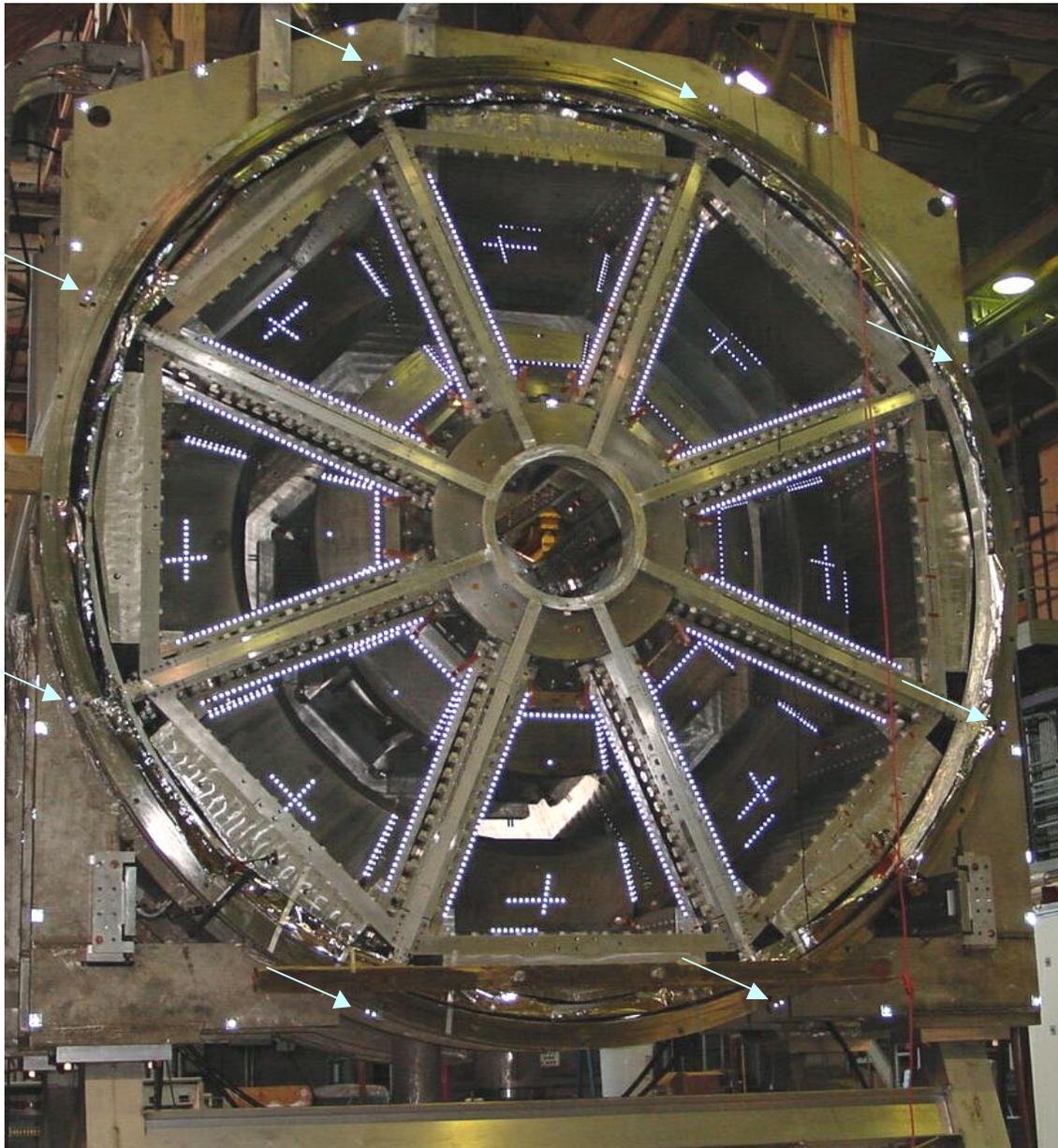


Figure 2. Downstream end of magnet (endcap removed) with cryostat fiducials indicated by arrows. Note that many of the internal collimator reflective dots also show up in the photo flash.

Figure 3. A close-up of a vector target inserted in a target holder, which is in turn welded to the cryostat. This target is located at about 202.5 degrees on outer rim of the downstream end-cap flange.

