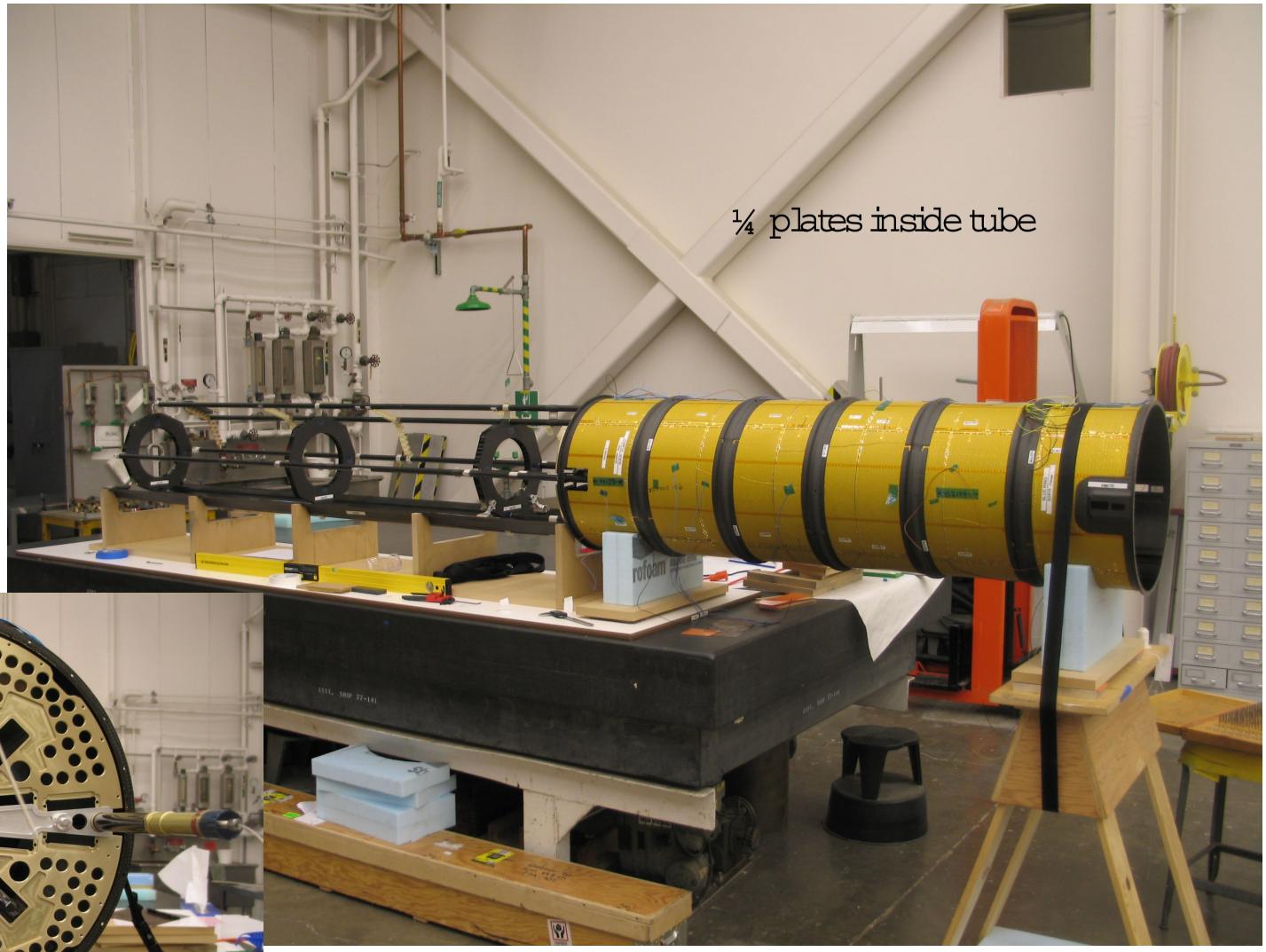
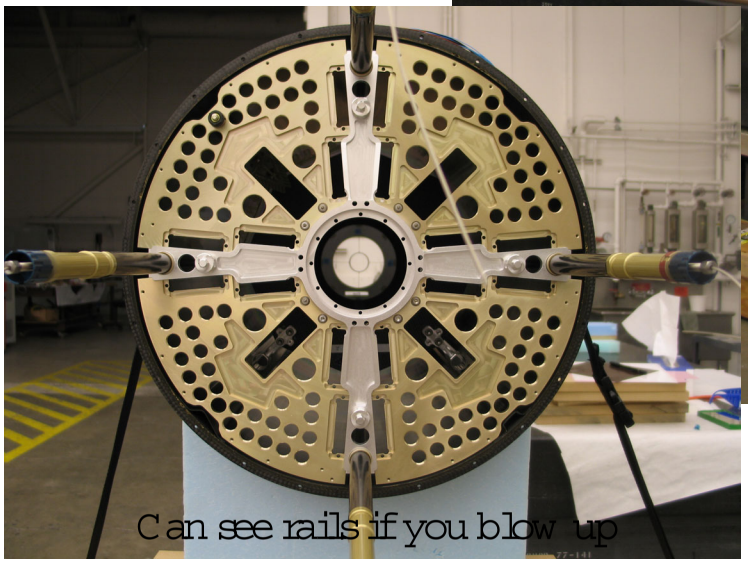
Clearance Trial

June 29, 2006

M. Gilchriese

¼ Panel Clearance-Orientation





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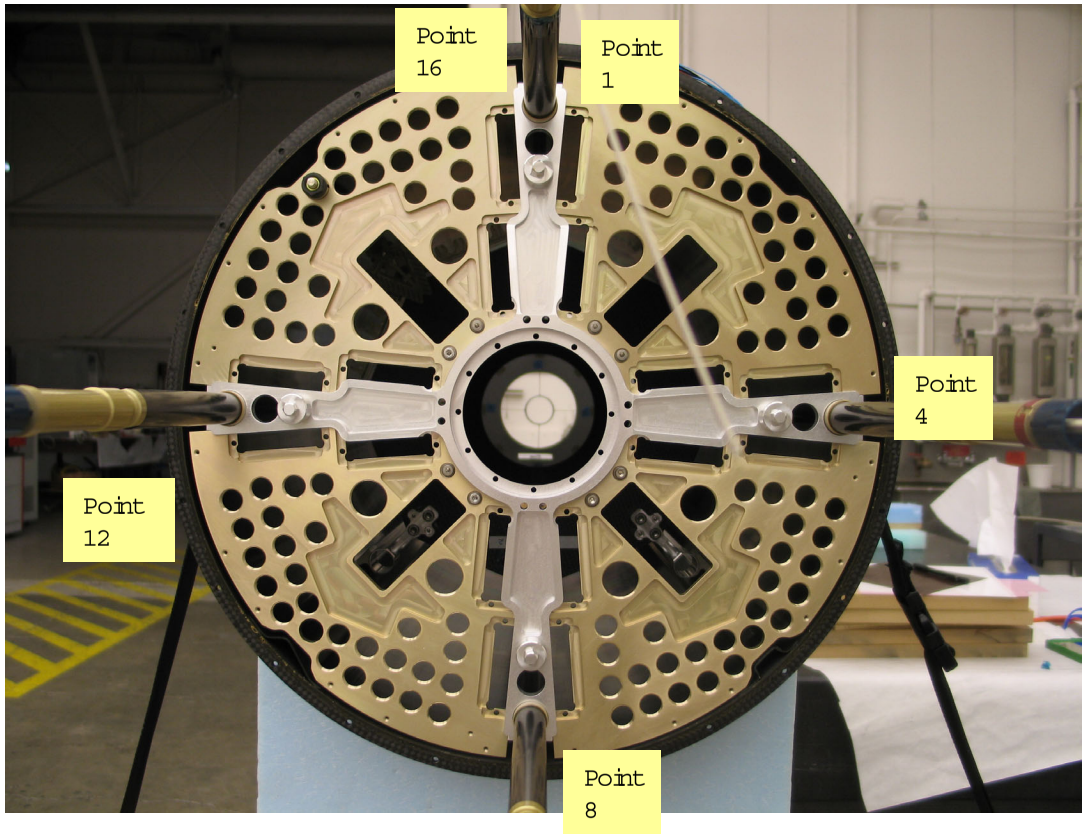
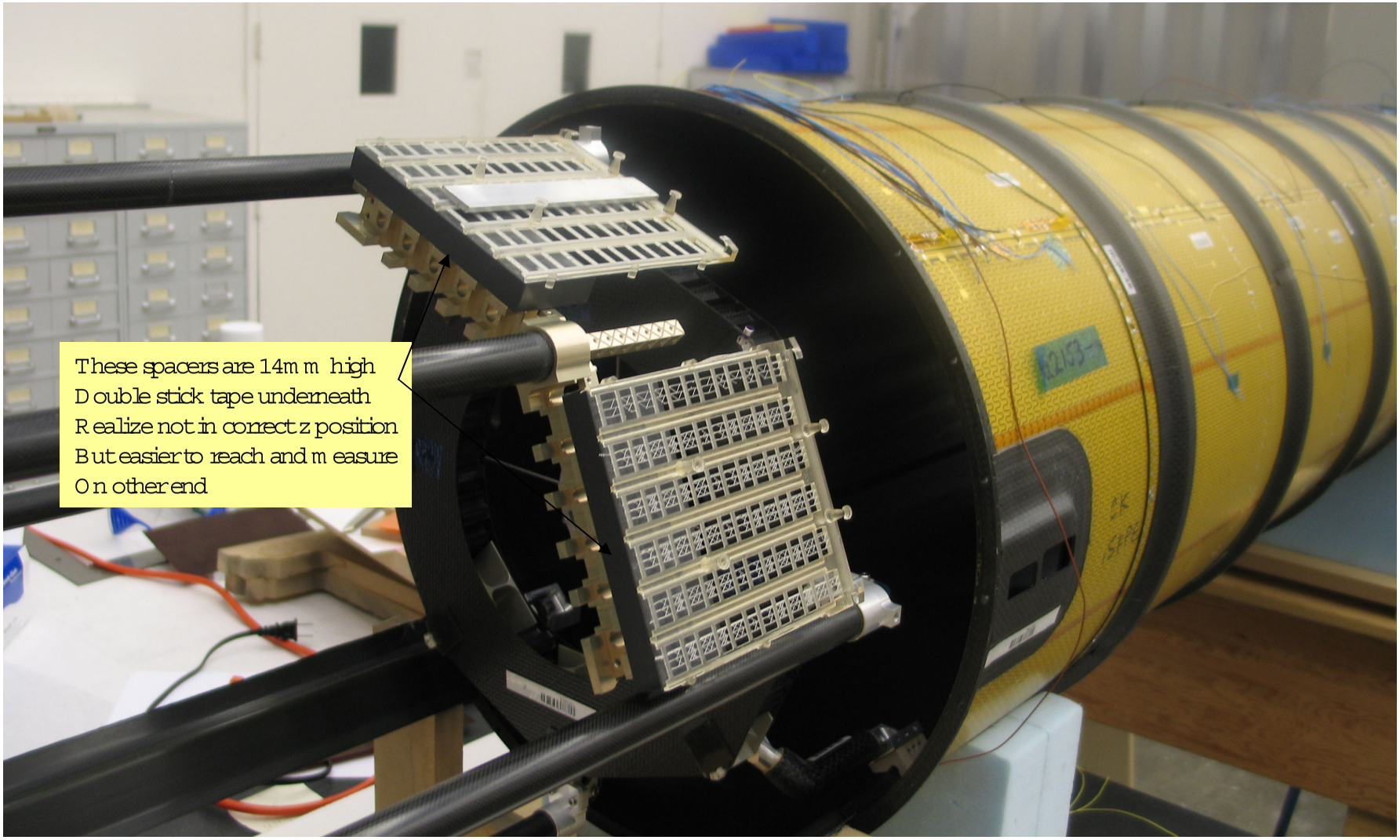
¼ Panels Clearance - Measurements

Point	Inches	mm
1	0.133	3.3782
2	0.115	2.921
3	0.108	2.7432
4	0.094	2.3876
5	0.092	2.3368
6	0.084	2.1336
7	0.076	1.9304
8	0.089	2.2606
9	0.098	2.4892
10	0.116	2.9464
11	0.142	3.6068
12	0.142	3.6068
13	0.15	3.81
14	0.154	3.9116
15	0.144	3.6576
16	0.132	3.3528
Average	0.116813	2.967038
Max	0.154	3.9116
Min	0.076	1.9304



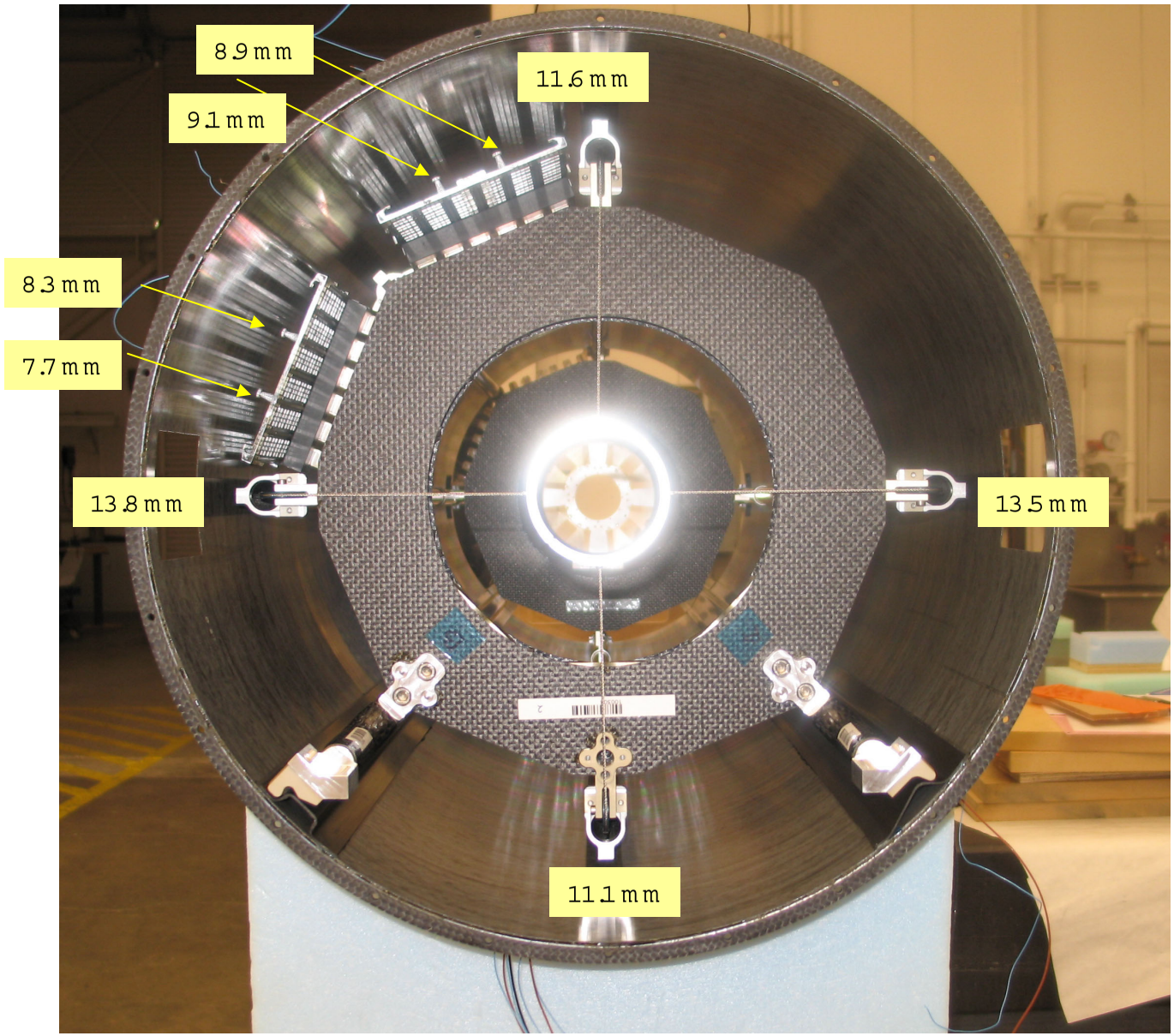
Gap between ¼ plates and inside of shell

PP0 Clearance



Note that shell orientation has changed from ¼ plate test – flipped.

PP0 Clearance Measurements



Measurements at vertical and horizontal done to gauge centering of BPSS

My Comments

- ¼ Plates
  - Average clearance as expected 3mm
  - Clearance affected by moving other end of BPSS but have to misalign rails on other end to get close to centering
  - To get <mm centering of real objects => need to try them (loaded, weight). Schedule implications?
  - Adjust so nominal is up by 1mm to have more clearance on bottom to account for rail losses?
  - Need discussion
- PPO
  - BPSS likely low in this test by 0.25mm but who cares
  - Why so much room? Did we screw up somewhere? Do these measurements agree with model?
  - Note that backbone is flexible in this test to at least 1mm level (gravity also)