

D/S End of BL4 Wig

Final As Built Postions Date: 05-02-2085

T:

Station:	Z	TP1	X	Y	Difference	units =	Inches
Operator:	Z	MR	Gopher #1:	Y	HI	Gopher #2:	none
SC14QFC1	0.00105	-0.01648	-0.02433	-0.01			
SC14QFC2	0.00000	0.00000	0.00000	0.00000			
SC14QFC3	-0.00268	-0.01435	+0.02413	-0.01			
SC14QFC4	-0.00370	-0.01629	-0.03006	+0.05			
SC13ID22	0.04086	-0.01008	+0.02534	0			
SC13ID23	0.05748	-0.00924	+0.02705	+0.02			
SC13ID24	0.04141	-0.00280	+0.01346	-0.12			
SC13ID2M	48.28089	-0.16169	5.76669	5.742	✓		
SC13ID2M	48.25083	-5.73899	0.15362	7.456	}		
SC13ID2M	47.23422	-2.00301	7.48064	7.461			
SC13ID2M	47.33854	3.10301	7.48569				

O/S = 6.446 Chamber = 2"
 val. $\frac{1}{7.446}$ S/R

Assumed
 Shift in Ⓢ
 - .025"

$\text{Ⓢ} + .015"$

Box Chamber

Mic top surface to bottom surface
 w/s: 2.005" } crude measurements, difficult
 D/S: 2.010" } to access under shields
 $\approx 2.00"$

Flange Ⓢ

P: Tape $\rightarrow 9.980"$
 rad. $\rightarrow 4.990"$ ✓
 $\frac{1}{2}$ prim. $\frac{.750}{5.740}$ ✓

D/S arm $\rightarrow 5"$ extension $\rightarrow 5.446"$ w/ Ⓢ shank
 total = $\frac{5.446}{1.000}$ cup a ball
 $6.446"$ ✓

UIS End of BL4 Wig

Final As Built Postions Date: 05-02-2085

T:

Station:	TP2	Difference units =		Inches	
Operator:	MR	Gopher #1:	HI	Gopher #2:	none
SC13QFC2	-0.00940	-0.00561	-0.00067		
SC13QFC3	-0.00844	-0.01444	-0.00619		
SC13QFC4	-0.00674	-0.00908	-0.01280		
SC13ID26	-0.02285	-0.02328	-0.00366		
SC13ID27	-0.02629	-0.01806	-0.00522		
SC13ID28	-0.03890	-0.02966	-0.00210		
SC13ID2M	-48.13234	-0.05684	5.72081		
SC13ID2M	-48.18646	-5.76257	0.05364		
SC13ID2M	-47.48748	-2.28303	7.44063	}	
SC13ID2M	-47.50201	3.06650	7.42894		

6.446 d/s

Chenter = 2"
 6.446
 1

 7.446 s/R

SC 13 ID 2

Imfeld, Hans Louis

From: LeCocq, Catherine M.
Sent: Friday, April 29, 2005 6:58 AM
To: Gaudreault, Francis M.; Imfeld, Hans Louis
Subject: BL4ID on SPEAR3 Maintenance - May 2nd

Attachments: sa44435027_survey.pdf; sa44435039_survey.pdf



sa44435027_survey.pdf (43 KB)
sa44435039_survey.pdf (41 KB)

Alignment work scheduled for Monday May 2nd:

On the BL4 insertion device chamber in the Spear3 13S straight, perform the following after reading the following caution:

CAUTION: BE VERY CAREFUL WORKING AROUND THE WIGGLER MAGNETS. THE POLE GAP IS OPEN. LARGE MAGNETIC FORCES CAN DEVELOP BETWEEN THE MAGNETS AND STEEL OR FERROMAGNETIC TOOLS. DO NOT LEAVE STEEL TOOLS WITHIN 25 INCHES OF THE MAGNETS.

THE WIGGLER COVERS MAY NEED TO BE REMOVED FOR ACCESS.

- 1) measure and record all (or as many as possible) chamber TB's; Y values are most important, X values are useful, Z values are not important.
- 2) for the entrance mask measure and record Y (near X =0) and roll of datums A and B and Y of datum C as noted on drawing sa44435027_survey. Use an OD mic or calipers to measure and record dim Y.
- 3) for the exit mask, measure and record Y (near X =0) and roll of datums A and B and Y of datum C as noted on drawing sa44435039_survey. Use an OD mic or calipers to measure and record dim Y.
- 4) survey results to Andy Ringwall, MS 69, x8508

*Beam Chamber W/S 05
2005 7/15*

W/S

Flanges

	<i>Y</i>	<i>X</i>	<i>roll</i>	<i>Z</i>	
<i>W/S TB's</i>	-0028 -0631✓	-020✓	+0.2ur	-025	} #1
<i>D/S TB's</i>	-005✓	+005✓	-1.5ur	+045	
<i>W/S Flange</i>	-019✓	-022✓	—	—	} #2 + #3
<i>D/S Flange</i>	+002✓	+016✓	—	—	
<i>W/S Top</i>	-014✓	—	-2ur	—	
<i>D/S Top</i>	+012✓	—	+1ur	—	

Dim Y = 2.00"