

## Official CERN Survey Co-ordinates of the Three Sensor Bracket PG Targets in the ISR

Please refer to my original description of PG1, PG2, PG3 positions on sensor brackets

Note: CMM relative measurements/FNAL Survey (Photogrammetry) of PG1, PG2, PG3- valid as originally submitted

Note: Updated Survey errors SLM es3-10 140-180 micron, MAB 180 micron, OLD Transfer line 90-100 micron

Target numbers and Bracket numbers per my distributed data sheets 6.26.00

Prepared by D Eartly (1.23.01)

**Note :** Xsurvey = - Zcms  
Ysurvey = -Xcms  
Zsurvey = Ycms

only Z change June to July\_Sept  
Z change was applied to ALL ISR

Assembly #	Sensor	Target ID	PG #	(-Z CMS)	(-X CMS)	(Y CMS)	Zsurvey(6-23)
				Xsurvey	Ysurvey	Zsurvey(7-12)	
18	ET0	1818	PG1	-9.02887	7.31977	1.29613	1.28603
	Bkt 33	1817	PG2	-9.02987	7.26895	1.29614	1.28601
		1819	PG3	-9.02937	7.28881	1.38099	1.37088
17	ET1	1727	PG1	-7.82219	7.27179	1.37411	1.36398
	Bkt 3	1729	PG2	-7.82188	7.32261	1.37426	1.36412
		1728	PG3	-7.82201	7.30296	1.28931	1.27918
26	ET2 June	2615	PG1	-6.59566	7.33649	1.30078	1.29063
	Fake MAB	2616	PG2	-6.5956	7.33654	1.35159	1.28601
	Bracket 9	2617	PG3	-6.59492	7.25172	1.33188	1.370877
	Before Our Translation						
MAB	ET2 Jul_Sept	3000	top out	-6.6065	7.3204	1.3781	-
	MAB plate	3001	top cen	-6.6066	7.2953	1.3782	-
	Targets per	3002	top in	-6.6067	7.2703	1.3781	-
	FNAL CMM	3003	bot cen	-6.607	7.2953	1.2782	-
28	ET3	2814	PG1	6.64999	7.34275	1.30374	-
	Bkt 12	2813	PG2	6.65019	7.34279	1.35456	-
		2815	PG3	6.64956	7.25794	1.33482	-
29	ET4	2915	PG1	9.04937	7.33683	1.30662	-
	Bkt 13	2916	PG2	9.04921	7.33705	1.35744	-
		2917	PG3	9.04944	7.25218	1.33795	-

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Assembly #	Sensor	Target ID	PG #	(-Z CMS)	(-X CMS)	(Y CMS)	
				Xsurvey	Ysurvey	Zsurvey(7-12)	Zsurvey(6-23)
17	ES1 Bkt 2	1719	PG1	-7.90022	7.23482	1.55992	1.54979
		1720	PG2	-7.84936	7.23444	1.56007	1.54993
		1721	PG3	-7.86889	7.23479	1.47519	1.46505
20	ES2 Bkt 01	2017	PG1	-7.82934	6.95476	1.48881	-
		2015	PG2	-7.8292	6.95467	1.53961	-
		2016	PG3	-7.91405	6.95451	1.52003	-
23	ES4 Bkt 5	2302	PG1	-7.83119	3.43664	1.49089	-
		2301	PG2	-7.83124	3.43657	1.54169	-
		2303	PG3	-7.91604	3.43607	1.52176	-
22	ES5 Bkt 10	2211	PG1	-7.83425	1.514	1.4918	-
		2212	PG2	-7.83429	1.5137	1.54249	-
		2213	PG3	-7.91913	1.51244	1.52271	-
25	ES6 Bkt 6	2517	PG1	-7.91591	-1.52121	1.49301	-
		2518	PG2	-7.91616	-1.52136	1.5438	-
		2506	PG3	-7.83128	-1.52159	1.52436	-
21	ES7 Bkt 8	2111	PG1	-7.91424	-3.4338	1.492	-
		2110	PG2	-7.9144	-3.43386	1.5428	-
		2112	PG3	-7.82949	-3.43496	1.52328	-
27	ES9 Bkt 11	2701	PG1	-7.91331	-6.95439	1.4914	-
		2703	PG2	-7.91343	-6.95436	1.54218	-
		2702	PG3	-7.82858	-6.9539	1.52256	-
19	ES10 Bkt 4	1909	PG1	-7.89428	-7.23453	1.47152	-
		1910	PG2	-7.84354	-7.23458	1.4718	-
		1906	PG3	-7.86384	-7.23504	1.55649	-