INSPECTION DATA FOR BETA .62 END WALLS

RE-ENTRANT DOME DATA FOR β=.62 END WALL S/N 01

HITS ON WELD BEAD

Point	Measured Data x	Measured Data y	Measured Data z	Calculated r	Calculated S/B z	Δz
1	-0.08394	-1.28063	2.45525	1.2834	2.5000	-0.0448
2	0.80322	-0.96443	2.45246	1.2551	2.5023	-0.0498
3	1.26974	-0.03516	2.45277	1.2702	2.5011	-0.0483
4	1.01425	0.80768	2.45012	1.2966	2.4989	-0.0488
5	0.0571	1.27555	2.45147	1.2768	2.5006	-0.0491
6	-0.82469	0.99394	2.45087	1.2915	2.4994	-0.0485
7	-1.2751	0.09242	2.45359	1.2784	2.5004	-0.0468
8	-0.98865	0.80781	2.45081	1.2767	2.5006	-0.0498
					Average	-0.0482
					Std Dev	0.0016

HITS JUST OUTSIDE WELD BEAD

Point	Measured Data x	Measured Data y	Measured Data z	Calculated r	Calculated S/B z	Δz
1	-0.09831	-1.38825	2.44643	1.3917	2.4908	-0.0444
2	0.79322	-1.15864	2.44362	1.4042	2.4897	-0.0461
3	1.42102	-0.06327	2.44069	1.4224	2.4881	-0.0474
4	1.1183	0.87358	2.43886	1.4191	2.4884	-0.0495
5	-0.07349	1.41719	2.43911	1.4191	2.4884	-0.0492
6	-1.10032	0.92398	2.43641	1.4368	2.4867	-0.0503
7	-1.40751	0.12681	2.44241	1.4132	2.4889	-0.0465
8	-1.07705	-0.90266	2.44396	1.4053	2.4896	-0.0456
					Average	-0.0474
					Std Dev	0.0020

RE-ENTRANT DOME DATA FOR β=.62 END WALL S/N 02

HITS ON WELD BEAD

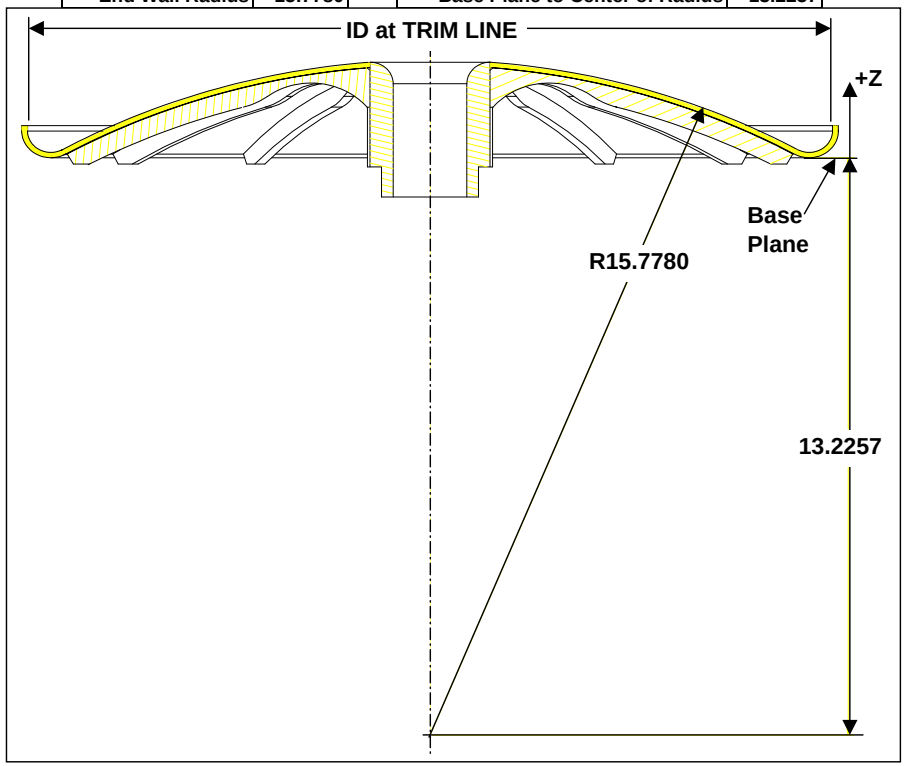
Point	Measured Data x	Measured Data y	Measured Data z	Calculated r	Calculated S/B z	Δz
1	-0.15018	-1.26233	2.45812	1.2712	2.5010	-0.0429
2	0.88939	-0.90198	2.45489	1.2667	2.5014	-0.0465
3	1.2702	-0.05186	2.46292	1.2713	2.5010	-0.0381
4	0.95278	0.85426	2.46228	1.2797	2.5003	-0.0380
5	0.19006	1.25623	2.46328	1.2705	2.5011	-0.0378
6	-1.27704	0.08543	2.46334	1.2799	2.5003	-0.0370
7	-0.92956	-0.88904	2.45921	1.2863	2.4998	-0.0406
8	-0.95008	0.85302	2.46017	1.2768	2.5006	-0.0404
					Average	-0.0401
					Std Dev	0.0030

HITS JUST OUTSIDE WELD BEAD

Point	Measured Data x	Measured Data y	Measured Data z	Calculated r	Calculated S/B z	Δz
1	-0.11081	-1.40109	2.449	1.4055	2.4896	-0.0406
2	0.92132	-1.07213	2.44713	1.4136	2.4888	-0.0417
3	1.4051	-0.11042	2.44811	1.4094	2.4892	-0.0411
4	1.04187	0.98505	2.45021	1.4338	2.4870	-0.0368
5	0.09669	1.41257	2.45356	1.4159	2.4886	-0.0351
6	-1.07466	0.9183	2.45337	1.4136	2.4889	-0.0355
7	-1.38037	0.17964	2.45403	1.3920	2.4908	-0.0367
8	-1.1389	-0.83079	2.45068	1.4097	2.4892	-0.0385
					Average	-0.0383
					Std Dev	0.0024

END WALL DESIGN DATA AND DEFINITIONS

End Wall Radius	15.7780	Base Plane to Center of Radius	13.2257



DIAMETER MEASUREMENTS

End Wall	ID at Trim Line	Range	S/B	Dev.	Pos. Rel. to BT X	Pos. Rel. to BT Y
S/N 01	18.1207	0.00516	18.105	0.0157	0.00232	0.0074
S/N 02	18.12024	0.00922	18.105	0.01524	0.00974	-0.00563

NOTES:

1. Two sets of data are presented for each end wall re-entrant dome.
   a. The first groups is a series of 8 points taken around the beam tube on the weld bead.
   b. The second group is a series of 8 points taken just outside the weld bead on the end wall rf surface.
2. From the measured x-y data the radius of each "hit" is calculated and from that the "Should Be" (S/B) value for each point.
3. The "S/B z" value is then subtracted from the measured value to arrive at Δz.
4. Standard deviations are calculated to determine validity (confidence) of the measured data.
5. Diameter Data: The diameter was measured at the design trim line. The "range" value indicates the TOTAL variation from the nominal. i.e. two lines separated by the Range value will encompass all measured points.