pc-dmis	PART NAME : PN482497_n_650_5cell_2of3_flanges_v01		July 25, 2014	09:04
	REV NUMBER :	SER NUMBER :	STATS COUNT :	1

482497 Rev. none
PROJECT X - 650 MHZ
CAVITY - 5 CELL BETA=0.9
BARE CAVITY ASSEMBLY

Inspected by : Robert Riley
Cavity Serial Number : B9A-AES-010
Routing Form Number : 96021
: 1407250742

****
OVERALL LENGTH BETWEEN BEAM TUBE FLANGES
****

↔	MM	DIST1 - PLNC_FPE_BT_FLANGE TO PLNC_MCE_BT_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1333.628	1326.733	-6.895	1.500	1.500	5.395	

****
DISTANCE BETWEEN MAIN COUPLER FLANGE & BEAM TUBE FLANGE
****

↔	MM	DIST2 - CIR_MC TO CIR_MCE_BT_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	89.200	92.301	3.101	1.500	1.500	1.601	

****
DISTANCE BETWEEN MAIN COUPLER FLANGE & FIELD PROBE FLANGE
****

↔	MM	DIST3 - CIR_MC TO CIR_FP (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1179.428	1172.989	-6.438	1.500	1.500	4.938	

****
DISTANCE BETWEEN FIELD PROBE FLANGE & BEAM TUBE FLANGE
****

↔	MM	DIST4 - CIR_FP TO CIR_FPE_BT_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	65.000	68.338	3.337	1.500	1.500	1.837	

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FIELD PROBE END BEAM TUBE FLANGE
****
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⊕	MM	LOC1 - CIR_FPE_BT_FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.008	-0.008	0.200	0.200	0.000	
Z	0.000	-0.124	-0.124	0.200	0.200	0.000	
D	170.000	169.938	-0.062	0.200	0.200	0.000	
RN	0.000	0.016	0.016	0.200	0.000	0.000	
↔	MM	DIST5 - PLNC_FPE_BT_FLANGE TO PLNC_FPE_BT_FLANGE_SS (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1.000	0.992	-0.008	0.200	0.200	0.000	
⊕	MM	LOC2 - PLN_FPE_BEAM_TUBE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	-651.814	-648.339	3.475	1.500	1.500	1.975	
FL	0.000	0.007	0.007	0.250	0.000	0.000	

⌖	MM	LOC3 - PLNC_FPE_BT_FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	-651.814	-648.344	3.470	1.500	1.500	1.970	
FL	0.000	0.029	0.029	0.250	0.000	0.000	

⌖	MM	LOC4 - PLNC_FPE_BT_FLANGE_SS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	-650.814	-647.353	3.461	1.500	1.500	1.961	
FL	0.000	0.026	0.026	0.250	0.000	0.000	

//	MM	PARL1 - PLNC_FPE_BT_FLANGE TO YMINUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.130	0.130	0.250	0	0.000	

⌖	MM	LOC5 - CIRC_FPE_BC					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.010	-0.010	0.200	0.200	0.000	
Z	0.000	-0.129	-0.129	0.200	2.000	0.000	
D	151.600	151.557	-0.043	0.200	0.200	0.000	
RN	0.000	0.064	0.064	0.200	0.000	0.000	

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BOLT CIRCLE POSITION TO FLANGE & CAVITY ROTATION

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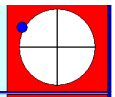
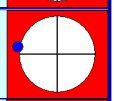
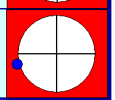
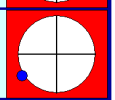
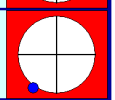
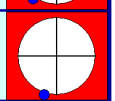
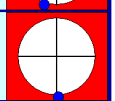
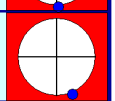
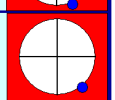
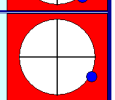
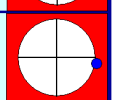
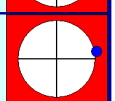
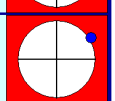
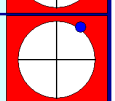
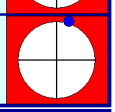
FCFLOC1 Size	MM	18XØ8.5 0.13/0.13					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_FPE_BC1	8.500	8.506	0.006	0.130	0.130	0.000	0.136
CIR_FPE_BC2	8.500	8.526	0.026	0.130	0.130	0.000	0.156
CIR_FPE_BC3	8.500	8.522	0.022	0.130	0.130	0.000	0.152
CIR_FPE_BC4	8.500	8.518	0.018	0.130	0.130	0.000	0.148
CIR_FPE_BC5	8.500	8.504	0.004	0.130	0.130	0.000	0.134
CIR_FPE_BC6	8.500	8.514	0.014	0.130	0.130	0.000	0.144
CIR_FPE_BC7	8.500	8.505	0.005	0.130	0.130	0.000	0.135
CIR_FPE_BC8	8.500	8.531	0.031	0.130	0.130	0.000	0.161
CIR_FPE_BC9	8.500	8.523	0.023	0.130	0.130	0.000	0.153
CIR_FPE_BC10	8.500	8.510	0.010	0.130	0.130	0.000	0.140
CIR_FPE_BC11	8.500	8.504	0.004	0.130	0.130	0.000	0.134
CIR_FPE_BC12	8.500	8.497	-0.003	0.130	0.130	0.000	0.127
CIR_FPE_BC13	8.500	8.509	0.009	0.130	0.130	0.000	0.139
CIR_FPE_BC14	8.500	8.488	-0.012	0.130	0.130	0.000	0.118
CIR_FPE_BC15	8.500	8.508	0.008	0.130	0.130	0.000	0.138
CIR_FPE_BC16	8.500	8.499	-0.001	0.130	0.130	0.000	0.129
CIR_FPE_BC17	8.500	8.510	0.010	0.130	0.130	0.000	0.140
CIR_FPE_BC18	8.500	8.501	0.001	0.130	0.130	0.000	0.131

FCFLOC1 Position	MM	⌖ Ø.2 Ⓜ A B					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_FPE_BC1	0.000	1.349	1.349	0.200		1.013	0.136
CIR_FPE_BC2	0.000	1.413	1.413	0.200		1.057	0.156
CIR_FPE_BC3	0.000	1.375	1.375	0.200		1.023	0.152

CIR_FPE_BC4	1.40502	0.14833	
CIR_FPE_BC5	1.34948	0.13441	
CIR_FPE_BC6	1.32402	0.14433	
CIR_FPE_BC7	1.34723	0.13486	
CIR_FPE_BC8	1.39207	0.16089	
CIR_FPE_BC9	1.42019	0.15308	
CIR_FPE_BC10	1.35398	0.13971	
CIR_FPE_BC11	1.36911	0.13366	
CIR_FPE_BC12	1.45205	0.12669	
CIR_FPE_BC13	1.38786	0.13917	
CIR_FPE_BC14	1.31237	0.11809	
CIR_FPE_BC15	1.29354	0.13762	
CIR_FPE_BC16	1.36391	0.12947	
CIR_FPE_BC17	1.36339	0.14046	
CIR_FPE_BC18	1.36307	0.13098	

FCFLOC1 Datum Shift

Segment	Shift X	Shift Y	Shift Z	Rotation X	Rotation Y	Rotation Z
Segment 1	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed

FCFLOC1 Summary FIT TO DATUMS=ON, DEV PERPEN CENTERLINE=ON

Feature	AX	NOMINAL	MEAS	DEV
CIR_FPE_BC1	X	75.80000	75.75091	-0.04909
	Z	0.00000	0.67278	0.67278
CIR_FPE_BC2	X	71.22900	70.97054	-0.25846
	Z	25.92500	26.58265	0.65765
CIR_FPE_BC3	X	58.06600	57.59893	-0.46707
	Z	48.72300	49.22731	0.50431
CIR_FPE_BC4	X	37.90000	37.28657	-0.61343
	Z	65.64500	65.98739	0.34239
CIR_FPE_BC5	X	13.16300	12.49984	-0.66316
	Z	74.64800	74.77248	0.12448
CIR_FPE_BC6	X	-13.16300	-13.80388	-0.64088
	Z	74.64800	74.48209	-0.16591

CIR_FPE_BC7	X	-37.90000	-38.47352	-0.57352
	Z	65.64500	65.29168	-0.35332
CIR_FPE_BC8	X	-58.06600	-58.47153	-0.40553
	Z	48.72300	48.15730	-0.56570
CIR_FPE_BC9	X	-71.22900	-71.44317	-0.21417
	Z	25.92500	25.24797	-0.67703
CIR_FPE_BC10	X	-75.80000	-75.76970	0.03030
	Z	0.00000	-0.67631	-0.67631
CIR_FPE_BC11	X	-71.22900	-70.96427	0.26473
	Z	-25.92500	-26.55630	-0.63130
CIR_FPE_BC12	X	-58.06600	-57.60250	0.46350
	Z	-48.72300	-49.28182	-0.55882
CIR_FPE_BC13	X	-37.90000	-37.29685	0.60315
	Z	-65.64500	-65.98816	-0.34316
CIR_FPE_BC14	X	-13.16300	-12.51455	0.64845
	Z	-74.64800	-74.74848	-0.10048
CIR_FPE_BC15	X	13.16300	13.79808	0.63508
	Z	-74.64800	-74.52559	0.12241
CIR_FPE_BC16	X	37.90000	38.48098	0.58098
	Z	-65.64500	-65.28790	0.35710
CIR_FPE_BC17	X	58.06600	58.46550	0.39950
	Z	-48.72300	-48.17064	0.55236
CIR_FPE_BC18	X	71.22900	71.43495	0.20595
	Z	-25.92500	-25.27533	0.64967

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BOLT CIRCLE POSITION TO FLANGE ONLY

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FCFLOC2 Size	MM	18XØ8.5 0.13/0.13					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_FPE_BC1	8.500	8.506	0.006	0.130	0.130	0.000	0.136
CIR_FPE_BC2	8.500	8.526	0.026	0.130	0.130	0.000	0.156
CIR_FPE_BC3	8.500	8.522	0.022	0.130	0.130	0.000	0.152
CIR_FPE_BC4	8.500	8.518	0.018	0.130	0.130	0.000	0.148
CIR_FPE_BC5	8.500	8.504	0.004	0.130	0.130	0.000	0.134
CIR_FPE_BC6	8.500	8.514	0.014	0.130	0.130	0.000	0.144
CIR_FPE_BC7	8.500	8.505	0.005	0.130	0.130	0.000	0.135
CIR_FPE_BC8	8.500	8.531	0.031	0.130	0.130	0.000	0.161
CIR_FPE_BC9	8.500	8.523	0.023	0.130	0.130	0.000	0.153
CIR_FPE_BC10	8.500	8.510	0.010	0.130	0.130	0.000	0.140
CIR_FPE_BC11	8.500	8.504	0.004	0.130	0.130	0.000	0.134
CIR_FPE_BC12	8.500	8.497	-0.003	0.130	0.130	0.000	0.127
CIR_FPE_BC13	8.500	8.509	0.009	0.130	0.130	0.000	0.139
CIR_FPE_BC14	8.500	8.488	-0.012	0.130	0.130	0.000	0.118
CIR_FPE_BC15	8.500	8.508	0.008	0.130	0.130	0.000	0.138
CIR_FPE_BC16	8.500	8.499	-0.001	0.130	0.130	0.000	0.129
CIR_FPE_BC17	8.500	8.510	0.010	0.130	0.130	0.000	0.140
CIR_FPE_BC18	8.500	8.501	0.001	0.130	0.130	0.000	0.131
FCFLOC2 Position	MM	⌖ Ø.2 Ⓜ A					

Feature	MEAS	BONUS
CIR_FPE_BC1	0.09379	0.13591
CIR_FPE_BC2	0.05754	0.15644
CIR_FPE_BC3	0.06188	0.15150
CIR_FPE_BC4	0.04375	0.14833
CIR_FPE_BC5	0.02529	0.13441
CIR_FPE_BC6	0.10732	0.14433
CIR_FPE_BC7	0.03643	0.13486
CIR_FPE_BC8	0.10278	0.16089
CIR_FPE_BC9	0.07769	0.15308
CIR_FPE_BC10	0.05554	0.13971
CIR_FPE_BC11	0.05971	0.13366
CIR_FPE_BC12	0.08968	0.12669
CIR_FPE_BC13	0.02447	0.13917
CIR_FPE_BC14	0.05561	0.11809
CIR_FPE_BC15	0.07159	0.13762
CIR_FPE_BC16	0.03140	0.12947
CIR_FPE_BC17	0.09197	0.14046
CIR_FPE_BC18	0.05123	0.13098

FCFLOC2 Datum Shift

Segment	Shift X	Shift Y	Shift Z	Rotation X	Rotation Y	Rotation Z
Segment 1	Fixed	Fixed	Fixed	Fixed	0.51533	Fixed

FCFLOC2 Summary FIT TO DATUMS=ON, DEV PERPEN CENTERLINE=ON

Feature	AX	NOMINAL	MEAS	DEV
CIR_FPE_BC1	X	75.80000	75.75390	-0.04610
	Z	0.00000	-0.00856	-0.00856
CIR_FPE_BC2	X	71.22900	71.20676	-0.02224
	Z	25.92500	25.94325	0.01825
CIR_FPE_BC3	X	58.06600	58.03936	-0.02664

	Z	48.72300	48.70727	-0.01573
CIR_FPE_BC4	X	37.90000	37.87856	-0.02144
	Z	65.64500	65.64936	0.00436
CIR_FPE_BC5	X	13.16300	13.17185	0.00885
	Z	74.64800	74.65703	0.00903
CIR_FPE_BC6	X	-13.16300	-13.13342	0.02958
	Z	74.64800	74.60323	-0.04477
CIR_FPE_BC7	X	-37.90000	-37.88472	0.01528
	Z	65.64500	65.63508	-0.00992
CIR_FPE_BC8	X	-58.06600	-58.03603	0.02997
	Z	48.72300	48.68125	-0.04175
CIR_FPE_BC9	X	-71.22900	-71.21319	0.01581
	Z	25.92500	25.88952	-0.03548
CIR_FPE_BC10	X	-75.80000	-75.77272	0.02728
	Z	0.00000	0.00520	0.00520
CIR_FPE_BC11	X	-71.22900	-71.20025	0.02875
	Z	-25.92500	-25.91696	0.00804
CIR_FPE_BC12	X	-58.06600	-58.04342	0.02258
	Z	-48.72300	-48.76174	-0.03874
CIR_FPE_BC13	X	-37.90000	-37.88885	0.01115
	Z	-65.64500	-65.65004	-0.00504
CIR_FPE_BC14	X	-13.16300	-13.18634	-0.02334
	Z	-74.64800	-74.63290	0.01510
CIR_FPE_BC15	X	13.16300	13.12723	-0.03577
	Z	-74.64800	-74.64667	0.00133
CIR_FPE_BC16	X	37.90000	37.89222	-0.00778
	Z	-65.64500	-65.63136	0.01364
CIR_FPE_BC17	X	58.06600	58.02989	-0.03611
	Z	-48.72300	-48.69454	0.02846
CIR_FPE_BC18	X	71.22900	71.20473	-0.02427
	Z	-25.92500	-25.91680	0.00820

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MAIN COUPLER END BEAM TUBE FLANGE

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⌖	MM	LOC14 - CIR_MCE_BT_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.049	-0.049	0.200	0.200	0.000
Z	0.000	-0.026	-0.026	0.200	0.200	0.000
D	170.000	169.975	-0.025	0.200	0.200	0.000
RN	0.000	0.021	0.021	0.200	0.000	0.000

↔	MM	DIST6 - PLNC_MCE_BT_FLANGE TO PLNC_MCE_BT_FLANGE_SS (YAXIS)				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	1.000	0.964	-0.036	0.200	0.200	0.000

⌖	MM	LOC15 - PLN_MCE_BEAM_TUBE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	681.814	678.379	-3.435	1.500	1.500	1.935
FL	0.000	0.014	0.014	0.250	0.000	0.000

⌖	MM	LOC16 - PLNC_MCE_BT_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	681.814	678.389	-3.425	1.500	1.500	1.925
FL	0.000	0.035	0.035	0.250	0.000	0.000

⌖	MM	LOC17 - PLNC_MCE_BT_FLANGE_SS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	680.814	677.424	-3.390	1.500	1.500	1.890
FL	0.000	0.026	0.026	0.250	0.000	0.000

//	MM	PARL2 - PLNC_MCE_BT_FLANGE TO YMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.100	0.100	0.250	0	0.000

⌖	MM	LOC18 - CIRC_MCE_BC				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.047	-0.047	0.200	0.200	0.000
Z	0.000	-0.020	-0.020	0.200	0.200	0.000
D	151.600	151.565	-0.035	0.200	0.200	0.000
RN	0.000	0.054	0.054	0.200	0.000	0.000

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BOLT CIRCLE POSITION TO FLANGE & CAVITY ROTATION

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FCFLOC3 Size	MM	18XØ8.5 0.13/0.13					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_MCE_BC1	8.500	8.526	0.026	0.130	0.130	0.000	0.156
CIR_MCE_BC2	8.500	8.506	0.006	0.130	0.130	0.000	0.136
CIR_MCE_BC3	8.500	8.515	0.015	0.130	0.130	0.000	0.145
CIR_MCE_BC4	8.500	8.516	0.016	0.130	0.130	0.000	0.146
CIR_MCE_BC5	8.500	8.506	0.006	0.130	0.130	0.000	0.136
CIR_MCE_BC6	8.500	8.503	0.003	0.130	0.130	0.000	0.133
CIR_MCE_BC7	8.500	8.512	0.012	0.130	0.130	0.000	0.142
CIR_MCE_BC8	8.500	8.514	0.014	0.130	0.130	0.000	0.144
CIR_MCE_BC9	8.500	8.502	0.002	0.130	0.130	0.000	0.132
CIR_MCE_BC10	8.500	8.519	0.019	0.130	0.130	0.000	0.149
CIR_MCE_BC11	8.500	8.508	0.008	0.130	0.130	0.000	0.138
CIR_MCE_BC12	8.500	8.520	0.020	0.130	0.130	0.000	0.150
CIR_MCE_BC13	8.500	8.504	0.004	0.130	0.130	0.000	0.134
CIR_MCE_BC14	8.500	8.495	-0.005	0.130	0.130	0.000	0.125
CIR_MCE_BC15	8.500	8.507	0.007	0.130	0.130	0.000	0.137
CIR_MCE_BC16	8.500	8.514	0.014	0.130	0.130	0.000	0.144
CIR_MCE_BC17	8.500	8.505	0.005	0.130	0.130	0.000	0.135
CIR_MCE_BC18	8.500	8.512	0.012	0.130	0.130	0.000	0.142

FCFLOC3 Position	MM	⌖ Ø.2 Ⓜ C B					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_MCE_BC1	0.000	0.216	0.216	0.200		0.000	0.156
CIR_MCE_BC2	0.000	0.181	0.181	0.200		0.000	0.136
CIR_MCE_BC3	0.000	0.193	0.193	0.200		0.000	0.145

CIR_MCE_BC4	0.15014	0.14645	
CIR_MCE_BC5	0.16171	0.13600	
CIR_MCE_BC6	0.15529	0.13272	
CIR_MCE_BC7	0.17809	0.14197	
CIR_MCE_BC8	0.16329	0.14447	
CIR_MCE_BC9	0.21173	0.13224	
CIR_MCE_BC10	0.17520	0.14896	
CIR_MCE_BC11	0.15624	0.13830	
CIR_MCE_BC12	0.17796	0.15029	
CIR_MCE_BC13	0.11297	0.13411	
CIR_MCE_BC14	0.10045	0.12525	
CIR_MCE_BC15	0.08277	0.13663	
CIR_MCE_BC16	0.17532	0.14383	
CIR_MCE_BC17	0.18600	0.13467	
CIR_MCE_BC18	0.19109	0.14209	

FCFLOC3 Datum Shift

Segment	Shift X	Shift Y	Shift Z	Rotation X	Rotation Y	Rotation Z
Segment 1	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed

FCFLOC3 Summary FIT TO DATUMS=ON, DEV PERPEN CENTERLINE=ON

Feature	AX	NOMINAL	MEAS	DEV
CIR_MCE_BC1	X	-75.80000	-75.78039	0.01961
	Z	0.00000	0.10599	0.10599
CIR_MCE_BC2	X	-71.22900	-71.17774	0.05126
	Z	25.92500	25.99981	0.07481
CIR_MCE_BC3	X	-58.06600	-58.00323	0.06277
	Z	48.72300	48.79597	0.07297
CIR_MCE_BC4	X	-37.90000	-37.83758	0.06242
	Z	65.64500	65.68670	0.04170
CIR_MCE_BC5	X	-13.16300	-13.08229	0.08071
	Z	74.64800	74.65277	0.00477
CIR_MCE_BC6	X	13.16300	13.23937	0.07637
	Z	74.64800	74.63398	-0.01402

CIR_MCE_BC7	X	37.90000	37.94953	0.04953
	Z	65.64500	65.57100	-0.07400
CIR_MCE_BC8	X	58.06600	58.11820	0.05220
	Z	48.72300	48.66022	-0.06278
CIR_MCE_BC9	X	71.22900	71.22802	-0.00098
	Z	25.92500	25.81914	-0.10586
CIR_MCE_BC10	X	75.80000	75.78574	-0.01426
	Z	0.00000	-0.08643	-0.08643
CIR_MCE_BC11	X	71.22900	71.19175	-0.03725
	Z	-25.92500	-25.99367	-0.06867
CIR_MCE_BC12	X	58.06600	57.98749	-0.07851
	Z	-48.72300	-48.76489	-0.04189
CIR_MCE_BC13	X	37.90000	37.85301	-0.04699
	Z	-65.64500	-65.67635	-0.03135
CIR_MCE_BC14	X	13.16300	13.11278	-0.05022
	Z	-74.64800	-74.64747	0.00053
CIR_MCE_BC15	X	-13.16300	-13.20241	-0.03941
	Z	-74.64800	-74.63538	0.01262
CIR_MCE_BC16	X	-37.90000	-37.93668	-0.03668
	Z	-65.64500	-65.56538	0.07962
CIR_MCE_BC17	X	-58.06600	-58.08902	-0.02302
	Z	-48.72300	-48.63289	0.09011
CIR_MCE_BC18	X	-71.22900	-71.23433	-0.00533
	Z	-25.92500	-25.82960	0.09540

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BOLT CIRCLE POSITION TO FLANGE ONLY

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FCFLOC4 Size	MM	18XØ8.5 0.13/0.13					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_MCE_BC1	8.500	8.526	0.026	0.130	0.130	0.000	0.156
CIR_MCE_BC2	8.500	8.506	0.006	0.130	0.130	0.000	0.136
CIR_MCE_BC3	8.500	8.515	0.015	0.130	0.130	0.000	0.145
CIR_MCE_BC4	8.500	8.516	0.016	0.130	0.130	0.000	0.146
CIR_MCE_BC5	8.500	8.506	0.006	0.130	0.130	0.000	0.136
CIR_MCE_BC6	8.500	8.503	0.003	0.130	0.130	0.000	0.133
CIR_MCE_BC7	8.500	8.512	0.012	0.130	0.130	0.000	0.142
CIR_MCE_BC8	8.500	8.514	0.014	0.130	0.130	0.000	0.144
CIR_MCE_BC9	8.500	8.502	0.002	0.130	0.130	0.000	0.132
CIR_MCE_BC10	8.500	8.519	0.019	0.130	0.130	0.000	0.149
CIR_MCE_BC11	8.500	8.508	0.008	0.130	0.130	0.000	0.138
CIR_MCE_BC12	8.500	8.520	0.020	0.130	0.130	0.000	0.150
CIR_MCE_BC13	8.500	8.504	0.004	0.130	0.130	0.000	0.134
CIR_MCE_BC14	8.500	8.495	-0.005	0.130	0.130	0.000	0.125
CIR_MCE_BC15	8.500	8.507	0.007	0.130	0.130	0.000	0.137
CIR_MCE_BC16	8.500	8.514	0.014	0.130	0.130	0.000	0.144
CIR_MCE_BC17	8.500	8.505	0.005	0.130	0.130	0.000	0.135
CIR_MCE_BC18	8.500	8.512	0.012	0.130	0.130	0.000	0.142
FCFLOC4 Position	MM	⌖ Ø.2 Ⓜ C					

Feature	MEAS	BONUS
CIR_MCE_BC1	0.07510	0.15597
CIR_MCE_BC2	0.05296	0.13600
CIR_MCE_BC3	0.04466	0.14543
CIR_MCE_BC4	0.01006	0.14645
CIR_MCE_BC5	0.02252	0.13600
CIR_MCE_BC6	0.00746	0.13272
CIR_MCE_BC7	0.07946	0.14197
CIR_MCE_BC8	0.01541	0.14447
CIR_MCE_BC9	0.08968	0.13224
CIR_MCE_BC10	0.03785	0.14896
CIR_MCE_BC11	0.02391	0.13830
CIR_MCE_BC12	0.06855	0.15029
CIR_MCE_BC13	0.03593	0.13411
CIR_MCE_BC14	0.05250	0.12525
CIR_MCE_BC15	0.06681	0.13663
CIR_MCE_BC16	0.10127	0.14383
CIR_MCE_BC17	0.08288	0.13467
CIR_MCE_BC18	0.06536	0.14209

FCFLOC4 Datum Shift

Segment	Shift X	Shift Y	Shift Z	Rotation X	Rotation Y	Rotation Z
Segment 1	Fixed	Fixed	Fixed	Fixed	359.94410	Fixed

FCFLOC4 Summary FIT TO DATUMS=ON, DEV PERPEN CENTERLINE=ON

Feature	AX	NOMINAL	MEAS	DEV
CIR_MCE_BC1	X	-75.80000	-75.78046	0.01954
	Z	0.00000	0.03206	0.03206
CIR_MCE_BC2	X	-71.22900	-71.20307	0.02593
	Z	25.92500	25.93036	0.00536
CIR_MCE_BC3	X	-58.06600	-58.05080	0.01520

	Z	48.72300	48.73936	0.01636
CIR_MCE_BC4	X	-37.90000	-37.90164	-0.00164
	Z	65.64500	65.64976	0.00476
CIR_MCE_BC5	X	-13.16300	-13.15511	0.00789
	Z	74.64800	74.63997	-0.00803
CIR_MCE_BC6	X	13.16300	13.16655	0.00355
	Z	74.64800	74.64686	-0.00114
CIR_MCE_BC7	X	37.90000	37.88554	-0.01446
	Z	65.64500	65.60799	-0.03701
CIR_MCE_BC8	X	58.06600	58.07070	0.00470
	Z	48.72300	48.71690	-0.00610
CIR_MCE_BC9	X	71.22900	71.20280	-0.02620
	Z	25.92500	25.88862	-0.03638
CIR_MCE_BC10	X	75.80000	75.78579	-0.01421
	Z	0.00000	-0.01249	-0.01249
CIR_MCE_BC11	X	71.22900	71.21707	-0.01193
	Z	-25.92500	-25.92420	0.00080
CIR_MCE_BC12	X	58.06600	58.03504	-0.03096
	Z	-48.72300	-48.70829	0.01471
CIR_MCE_BC13	X	37.90000	37.91707	0.01707
	Z	-65.64500	-65.63939	0.00561
CIR_MCE_BC14	X	13.16300	13.18560	0.02260
	Z	-74.64800	-74.63464	0.01336
CIR_MCE_BC15	X	-13.16300	-13.12959	0.03341
	Z	-74.64800	-74.64823	-0.00023
CIR_MCE_BC16	X	-37.90000	-37.87269	0.02731
	Z	-65.64500	-65.60236	0.04264
CIR_MCE_BC17	X	-58.06600	-58.04155	0.02445
	Z	-48.72300	-48.68954	0.03346
CIR_MCE_BC18	X	-71.22900	-71.20909	0.01991
	Z	-25.92500	-25.89908	0.02592

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ROTATIONAL ANGLE BETWEEN FIELD PROBE & MAIN COUPLER END BEAM TUBE FLANGES
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∡	DEG	ANGL1 - LINC_MCE_BC TO LINC_FPE_BC				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	0.000	0.577	0.577	1.000	1.000	0.000

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****
MAIN COUPLER FLANGE
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⊕	MM	LOC6 - CIR_MC				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	592.614	589.513	-3.101	1.500	1.500	1.601
Z	0.000	-0.002	-0.002	0.200	0.200	0.000
D	140.000	139.954	-0.046	0.200	0.200	0.000
RN	0.000	0.011	0.011	0.200	0.000	0.000

↔	MM	DIST7 - PLN_MC TO PLNC_MC_SS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	1.000	1.023	0.023	0.200	0.200	0.000

⌖	MM	LOC7 - PLN_MC				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-150.000	-147.373	2.627	1.500	1.500	1.127
FL	0.000	0.038	0.038	0.250	0.000	0.000

⌖	MM	LOC8 - PLNC_MC_SS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-149.000	-146.350	2.650	1.500	1.500	1.150
FL	0.000	0.040	0.040	0.250	0.000	0.000

⌖	MM	LOC9 - PLN_MC_TUBE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-150.000	-147.316	2.684	1.500	1.500	1.184
FL	0.000	0.035	0.035	0.250	0.000	0.000

//	MM	PARL3 - PLN_MC TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	1.969	1.969	0.250	0	1.719

⌖	MM	LOC10 - CIRC_MC_BC				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	592.614	589.552	-3.062	1.500	1.500	1.562
Z	0.000	-0.020	-0.020	0.200	0.200	0.000
D	120.000	119.949	-0.051	0.200	0.200	0.000
RN	0.000	0.097	0.097	0.200	0.000	0.000

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BOLT CIRCLE POSITION TO FLANGE & CAVITY ROTATION

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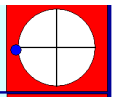
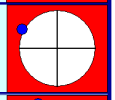
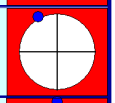
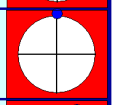
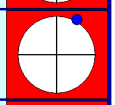
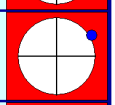
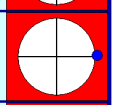
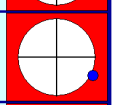
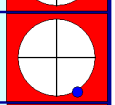
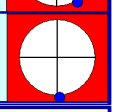
FCFLOC5 Size	MM	12XØ8.8 0.13/0.13					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_MC_BH_30	8.800	8.935	0.135	0.130	0.130	0.005	0.260
CIR_MC_BH_60	8.800	8.927	0.127	0.130	0.130	0.000	0.257
CIR_MC_BH_...	8.800	8.855	0.055	0.130	0.130	0.000	0.185
CIR_MC_BH_...	8.800	8.864	0.064	0.130	0.130	0.000	0.194
CIR_MC_BH_...	8.800	8.875	0.075	0.130	0.130	0.000	0.205
CIR_MC_BH_...	8.800	8.861	0.061	0.130	0.130	0.000	0.191
CIR_MC_BH_...	8.800	8.849	0.049	0.130	0.130	0.000	0.179
CIR_MC_BH_...	8.800	8.892	0.092	0.130	0.130	0.000	0.222
CIR_MC_BH_...	8.800	8.897	0.097	0.130	0.130	0.000	0.227
CIR_MC_BH_...	8.800	8.904	0.104	0.130	0.130	0.000	0.234
CIR_MC_BH_...	8.800	8.915	0.115	0.130	0.130	0.000	0.245
CIR_MC_BH_...	8.800	8.974	0.174	0.130	0.130	0.044	0.260

FCFLOC5 Position	MM	⌖ Ø0.2 Ⓜ D B					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_MC_BH_30	0.000	1.605	1.605	0.200		1.145	0.260
CIR_MC_BH_60	0.000	1.687	1.687	0.200		1.230	0.257

CIR_MC_BH_090	1.51461	0.18518	
CIR_MC_BH_120	1.54612	0.19383	
CIR_MC_BH_150	1.59172	0.20466	
CIR_MC_BH_180	1.63348	0.19129	
CIR_MC_BH_210	1.72012	0.17937	
CIR_MC_BH_240	1.70232	0.22194	
CIR_MC_BH_270	1.71586	0.22727	
CIR_MC_BH_300	1.69308	0.23389	
CIR_MC_BH_330	1.64889	0.24482	
CIR_MC_BH_360	1.72051	0.26000	

FCFLOC5 Datum Shift

Segment	Shift X	Shift Y	Shift Z	Rotation X	Rotation Y	Rotation Z
Segment 1	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed

FCFLOC5 Summary FIT TO DATUMS=ON, DEV PERPEN CENTERLINE=ON

Feature	AX	NOMINAL	MEAS	DEV
CIR_MC_BH_30	Y	-51.96196	-52.29947	-0.33751
	Z	30.00000	29.27209	-0.72790
CIR_MC_BH_60	Y	-30.00044	-30.65837	-0.65792
	Z	51.96153	51.43373	-0.52780
CIR_MC_BH_090	Y	-0.00044	-0.75656	-0.75612
	Z	60.00000	59.95768	-0.04232
CIR_MC_BH_120	Y	29.99956	29.32272	-0.67684
	Z	51.96153	52.33503	0.37350
CIR_MC_BH_150	Y	51.96110	51.58580	-0.37530
	Z	30.00000	30.70181	0.70181
CIR_MC_BH_180	Y	59.99956	60.00587	0.00631
	Z	0.00000	0.81672	0.81672
CIR_MC_BH_210	Y	51.96110	52.39671	0.43561
	Z	-30.00000	-29.25841	0.74158
CIR_MC_BH_240	Y	29.99956	30.73204	0.73248
	Z	-51.96152	-51.52800	0.43352
CIR_MC_BH_270	Y	-0.00044	0.85687	0.85732
	Z	-60.00000	-59.96756	0.03244
CIR_MC_BH_300	Y	-30.00044	-29.24872	0.75173
	Z	-51.96152	-52.35080	-0.38927
CIR_MC_BH_330	Y	-51.96196	-51.53248	0.42948
	Z	-30.00001	-30.70375	-0.70374

CIR_MC_BH_360	Y	-60.00044	-59.94744	0.05300
	Z	0.00000	-0.85862	-0.85862

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BOLT CIRCLE POSITION TO FLANGE ONLY
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FCFLOC6 Size	MM	12XØ8.8 0.13/0.13					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_MC_BH_30	8.800	8.935	0.135	0.130	0.130	0.005	0.260
CIR_MC_BH_60	8.800	8.927	0.127	0.130	0.130	0.000	0.257
CIR_MC_BH_...	8.800	8.855	0.055	0.130	0.130	0.000	0.185
CIR_MC_BH_...	8.800	8.864	0.064	0.130	0.130	0.000	0.194
CIR_MC_BH_...	8.800	8.875	0.075	0.130	0.130	0.000	0.205
CIR_MC_BH_...	8.800	8.861	0.061	0.130	0.130	0.000	0.191
CIR_MC_BH_...	8.800	8.849	0.049	0.130	0.130	0.000	0.179
CIR_MC_BH_...	8.800	8.892	0.092	0.130	0.130	0.000	0.222
CIR_MC_BH_...	8.800	8.897	0.097	0.130	0.130	0.000	0.227
CIR_MC_BH_...	8.800	8.904	0.104	0.130	0.130	0.000	0.234
CIR_MC_BH_...	8.800	8.915	0.115	0.130	0.130	0.000	0.245
CIR_MC_BH_...	8.800	8.974	0.174	0.130	0.130	0.044	0.260

FCFLOC6 Position	MM	⌖ Ø0.2 Ⓜ D					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_MC_BH_30	0.000	0.149	0.149	0.200		0.000	0.260
CIR_MC_BH_60	0.000	0.245	0.245	0.200		0.000	0.257
CIR_MC_BH_090	0.000	0.173	0.173	0.200		0.000	0.185
CIR_MC_BH_120	0.000	0.125	0.125	0.200		0.000	0.194
CIR_MC_BH_150	0.000	0.101	0.101	0.200		0.000	0.205
CIR_MC_BH_180	0.000	0.043	0.043	0.200		0.000	0.191
CIR_MC_BH_210	0.000	0.057	0.057	0.200		0.000	0.179
CIR_MC_BH_240	0.000	0.034	0.034	0.200		0.000	0.222
CIR_MC_BH_270	0.000	0.070	0.070	0.200		0.000	0.227
CIR_MC_BH_300	0.000	0.070	0.070	0.200		0.000	0.234
CIR_MC_BH_330	0.000	0.035	0.035	0.200		0.000	0.245
CIR_MC_BH_360	0.000	0.106	0.106	0.200		0.000	0.260

FCFLOC6 Datum Shift						
Segment	Shift X	Shift Y	Shift Z	Rotation X	Rotation Y	Rotation Z
Segment 1	Fixed	Fixed	Fixed	359.203	Fixed	Fixed

FCFLOC6 Summary FIT TO DATUMS=ON, DEV PERPEN CENTERLINE=ON				
Feature	AX	NOMINAL	MEAS	DEV
CIR_MC_BH_30	Y	-51.962	-51.887	0.075
	Z	30.000	29.997	-0.003
CIR_MC_BH_60	Y	-30.000	-29.940	0.060
	Z	51.962	51.855	-0.106
CIR_MC_BH_090	Y	0.000	0.077	0.078
	Z	60.000	59.962	-0.038
CIR_MC_BH_120	Y	30.000	30.048	0.048
	Z	51.962	51.922	-0.039
CIR_MC_BH_150	Y	51.961	52.008	0.047
	Z	30.000	29.981	-0.019
CIR_MC_BH_180	Y	60.000	60.011	0.012
	Z	0.000	-0.018	-0.018
CIR_MC_BH_210	Y	51.961	51.985	0.024
	Z	-30.000	-29.984	0.016
CIR_MC_BH_240	Y	30.000	30.012	0.013
	Z	-51.962	-51.950	0.011
CIR_MC_BH_270	Y	0.000	0.023	0.023
	Z	-60.000	-59.974	0.026
CIR_MC_BH_300	Y	-30.000	-29.974	0.026
	Z	-51.962	-51.939	0.023
CIR_MC_BH_330	Y	-51.962	-51.955	0.007
	Z	-30.000	-29.984	0.016
CIR_MC_BH_360	Y	-60.000	-59.954	0.047
	Z	0.000	-0.025	-0.025

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FIELD PROBE FLANGE
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⌖	MM	LOC11 - CIR_FP				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	-586.814	-583.476	3.337	1.500	1.500	1.837
Z	0.000	0.734	0.734	0.200	0.200	0.534
D	33.800	33.748	-0.052	0.200	0.200	0.000
RN	0.000	0.064	0.064	0.200	0.000	0.000

↔	MM	DIST8 - PLN_FP TO PLN_FP_SS (XAXIS)				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.500	0.515	0.015	0.050	0.000	0.000

⌖	MM	LOC12 - PLN_FP				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	80.000	78.908	-1.092	1.500	1.500	0.000
FL	0.000	0.006	0.006	0.250	0.000	0.000

⌖	MM	LOC13 - PLN_FP_SS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	79.500	78.392	-1.108	1.500	1.500	0.000
FL	0.000	0.008	0.008	0.250	0.000	0.000

⌖	MM	LOC19 - PLN_FP_TUBE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	80.000	78.888	-1.112	1.500	1.500	0.000
FL	0.000	0.006	0.006	0.250	0.000	0.000

//	MM	PARL4 - PLN_FP TO XPLUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.140	0.140	0.250	0	0.000

⌖	MM	LOC36 - CIRC_FP_BC				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	-586.814	-583.478	3.335	1.500	1.500	1.835
Z	0.000	0.716	0.716	0.200	0.200	0.516
D	27.000	26.923	-0.077	0.200	0.200	0.000
RN	0.000	0.016	0.016	0.200	0.000	0.000

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BOLT CIRCLE POSITION TO FLANGE & CAVITY ROTATION

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FCFLOC7 Size	MM	6XØ4.5 0.05/0.05					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_FP_BC1	4.500	4.574	0.074	0.050	0.050	0.024	0.000
CIR_FP_BC2	4.500	4.621	0.121	0.050	0.050	0.071	0.000
CIR_FP_BC3	4.500	4.583	0.083	0.050	0.050	0.033	0.000
CIR_FP_BC4	4.500	4.585	0.085	0.050	0.050	0.035	0.000
CIR_FP_BC5	4.500	4.583	0.083	0.050	0.050	0.033	0.000
CIR_FP_BC6	4.500	4.576	0.076	0.050	0.050	0.026	0.000

FCFLOC7 Position	MM	⌖ Ø0.2 E B					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_FP_BC1	0.000	0.315	0.315	0.200		0.115	0.000
CIR_FP_BC2	0.000	0.391	0.391	0.200		0.191	0.000
CIR_FP_BC3	0.000	0.260	0.260	0.200		0.060	0.000
CIR_FP_BC4	0.000	0.323	0.323	0.200		0.123	0.000
CIR_FP_BC5	0.000	0.316	0.316	0.200		0.116	0.000
CIR_FP_BC6	0.000	0.370	0.370	0.200		0.170	0.000

FCFLOC7 Datum Shift						
Segment	Shift X	Shift Y	Shift Z	Rotation X	Rotation Y	Rotation Z
Segment 1	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed

FCFLOC7 Summary FIT TO DATUMS=ON, DEV PERPEN CENTERLINE=ON				
Feature	AX	NOMINAL	MEAS	DEV
CIR_FP_BC1	Y	0.000	0.147	0.147
	Z	13.500	13.443	-0.057
CIR_FP_BC2	Y	-11.691	-11.550	0.141
	Z	6.750	6.885	0.135
CIR_FP_BC3	Y	-11.691	-11.739	-0.047
	Z	-6.750	-6.629	0.121
CIR_FP_BC4	Y	0.000	-0.159	-0.159
	Z	-13.500	-13.475	0.025
CIR_FP_BC5	Y	11.691	11.583	-0.108
	Z	-6.750	-6.865	-0.115
CIR_FP_BC6	Y	11.691	11.743	0.052
	Z	6.750	6.572	-0.178

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BOLT CIRCLEE POSITION TO FLANGE ONLY

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FCFLOC8 Size	MM	6XØ4.5 0.05/0.05					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_FP_BC1	4.500	4.574	0.074	0.050	0.050	0.024	0.000
CIR_FP_BC2	4.500	4.621	0.121	0.050	0.050	0.071	0.000
CIR_FP_BC3	4.500	4.583	0.083	0.050	0.050	0.033	0.000
CIR_FP_BC4	4.500	4.585	0.085	0.050	0.050	0.035	0.000
CIR_FP_BC5	4.500	4.583	0.083	0.050	0.050	0.033	0.000
CIR_FP_BC6	4.500	4.576	0.076	0.050	0.050	0.026	0.000

FCFLOC8 Position	MM	⌖ Ø0.2 E					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_FP_BC1	0.000	0.117	0.117	0.200		0.000	0.000
CIR_FP_BC2	0.000	0.117	0.117	0.200		0.000	0.000
CIR_FP_BC3	0.000	0.079	0.079	0.200		0.000	0.000
CIR_FP_BC4	0.000	0.048	0.048	0.200		0.000	0.000
CIR_FP_BC5	0.000	0.073	0.073	0.200		0.000	0.000
CIR_FP_BC6	0.000	0.093	0.093	0.200		0.000	0.000

FCFLOC8 Datum Shift						
Segment	Shift X	Shift Y	Shift Z	Rotation X	Rotation Y	Rotation Z
Segment 1	Fixed	Fixed	Fixed	0.692	Fixed	Fixed

FCFLOC8 Summary FIT TO DATUMS=ON, DEV PERPEN CENTERLINE=ON				
Feature	AX	NOMINAL	MEAS	DEV
CIR_FP_BC1	Y	0.000	-0.016	-0.016
	Z	13.500	13.444	-0.056
CIR_FP_BC2	Y	-11.691	-11.633	0.058
	Z	6.750	6.745	-0.005
CIR_FP_BC3	Y	-11.691	-11.658	0.034
	Z	-6.750	-6.770	-0.020
CIR_FP_BC4	Y	0.000	0.003	0.003
	Z	-13.500	-13.476	0.024
CIR_FP_BC5	Y	11.691	11.665	-0.026
	Z	-6.750	-6.725	0.025
CIR_FP_BC6	Y	11.691	11.663	-0.029
	Z	6.750	6.714	-0.036

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TRANSITION RINGS
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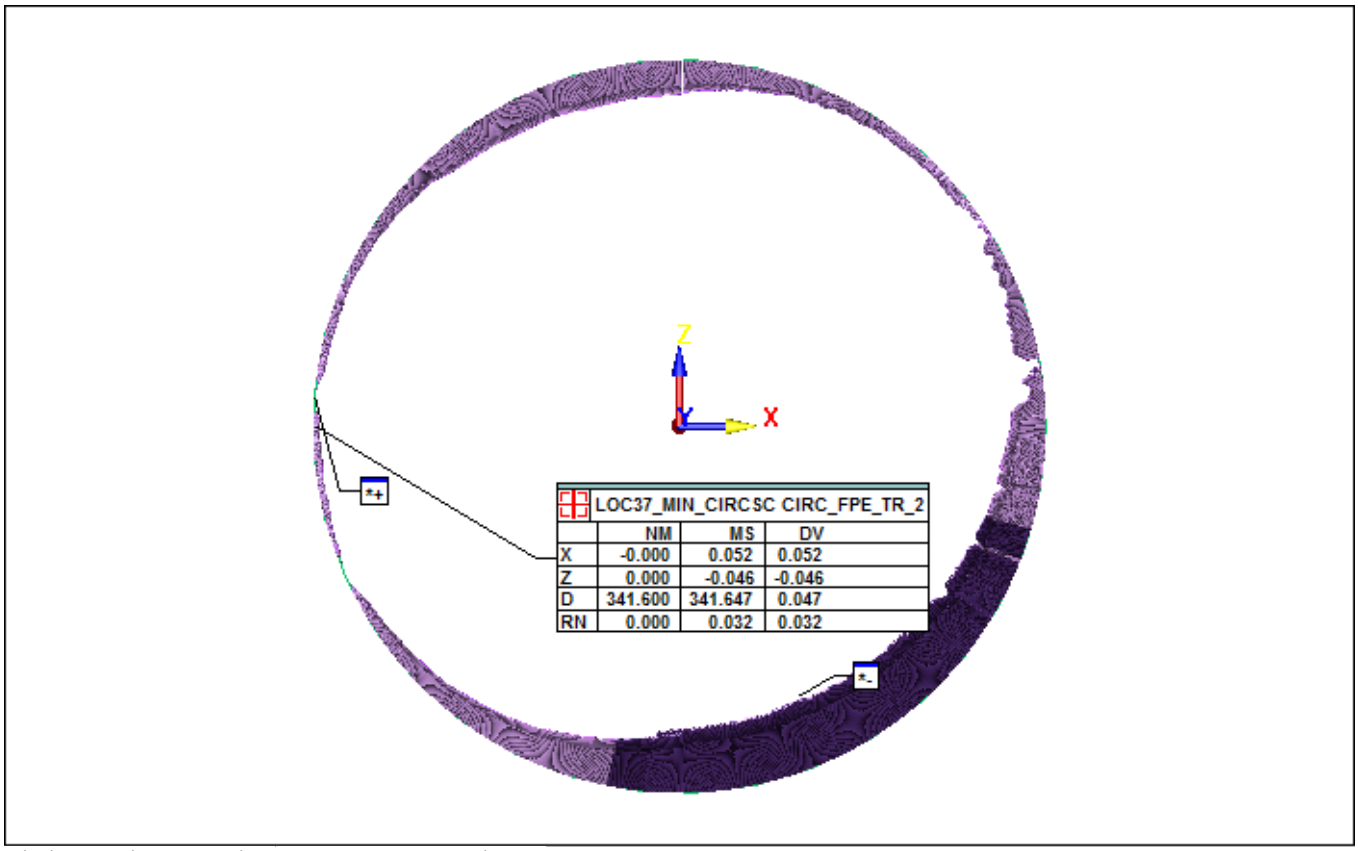
⌖	MM	LOC20 - CIR_FPE_TR				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.045	0.045	0.200	0.200	0.000
Y	-507.877	-507.877	0.000	1.500	1.500	0.000
Z	0.000	-0.041	-0.041	0.200	0.200	0.000
D	341.600	341.611	0.011	0.200	0.200	0.000
RN	0.000	0.017	0.017	0.200	0.000	0.000

⌖	MM	LOC21 - CIR_MCE_TR				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.086	0.086	0.200	0.200	0.000
Y	507.877	507.877	0.000	1.500	1.500	0.000
Z	0.000	0.076	0.076	0.200	0.200	0.000
D	341.600	341.626	0.026	0.200	0.200	0.000
RN	0.000	0.009	0.009	0.200	0.000	0.000

⌖	MM	LOC37_MIN_CIRCSC - CIRC_FPE_TR_2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.052	0.052	0.200	0.200	0.000
Z	0.000	-0.046	-0.046	0.200	0.200	0.000
D	341.600	341.647	0.047	0.200	0.200	0.000
RN	0.000	0.032	0.032	0.051	0.000	0.000

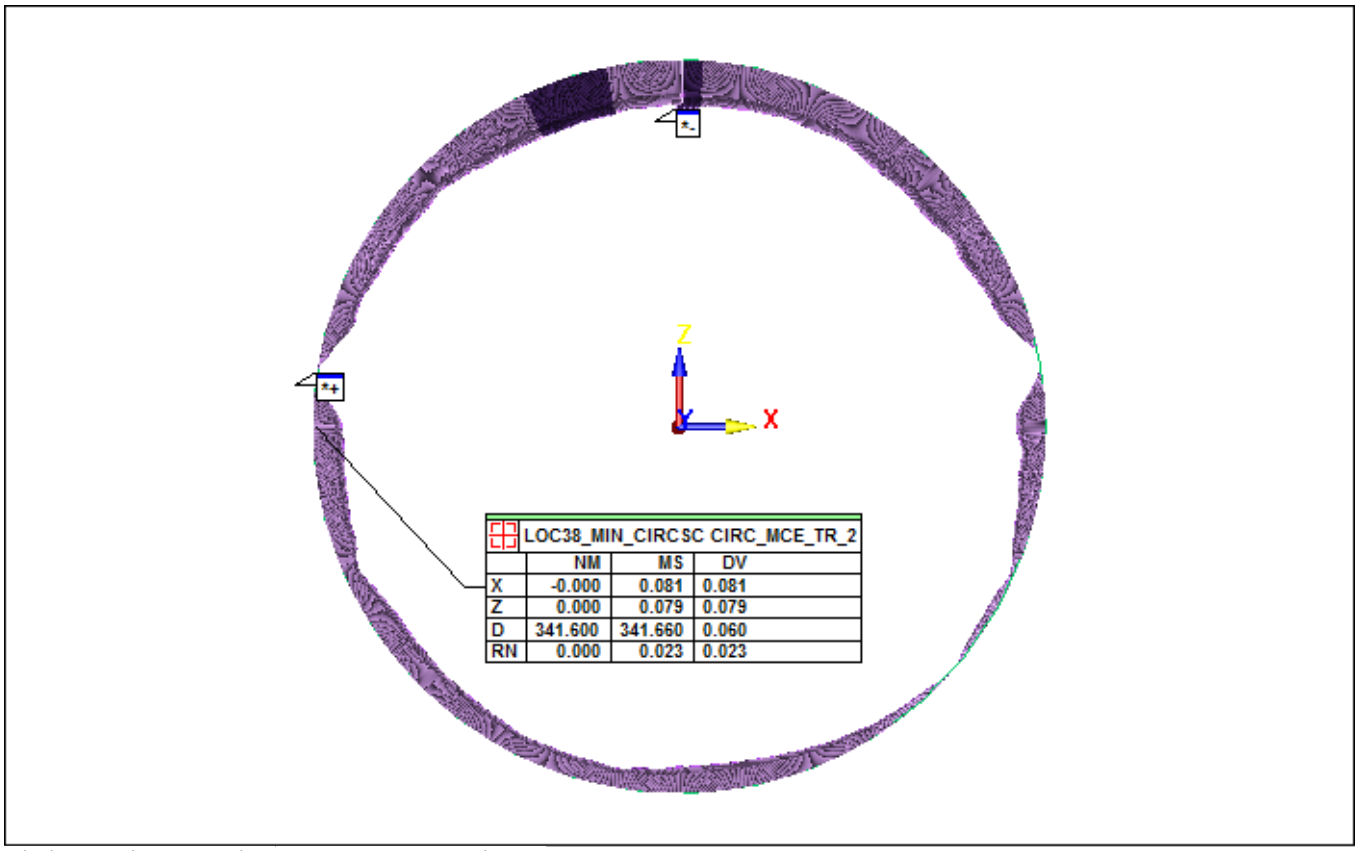
○	MM	CIRTY15 - CIRC_FPE_TR_2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.032	0.032	0.200	0.000	0.000



Minimum Circumscribed constructed circle
Transition Ring Field Probe End
x1000

	MM	LOC38_MIN_CIRCSC - CIRC_MCE_TR_2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.081	0.081	0.200	0.200	0.000
Z	0.000	0.079	0.079	0.200	0.200	0.000
D	341.600	341.660	0.060	0.200	0.200	0.000
RN	0.000	0.023	0.023	0.051	0.000	0.000

	MM	CIRTY16 - CIRC_MCE_TR_2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.023	0.023	0.200	0.000	0.000



Minimum Circumscribed constructed circle
Transition Ring Main Coupler End
x1000

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COSINE VECTORS OF PLANES

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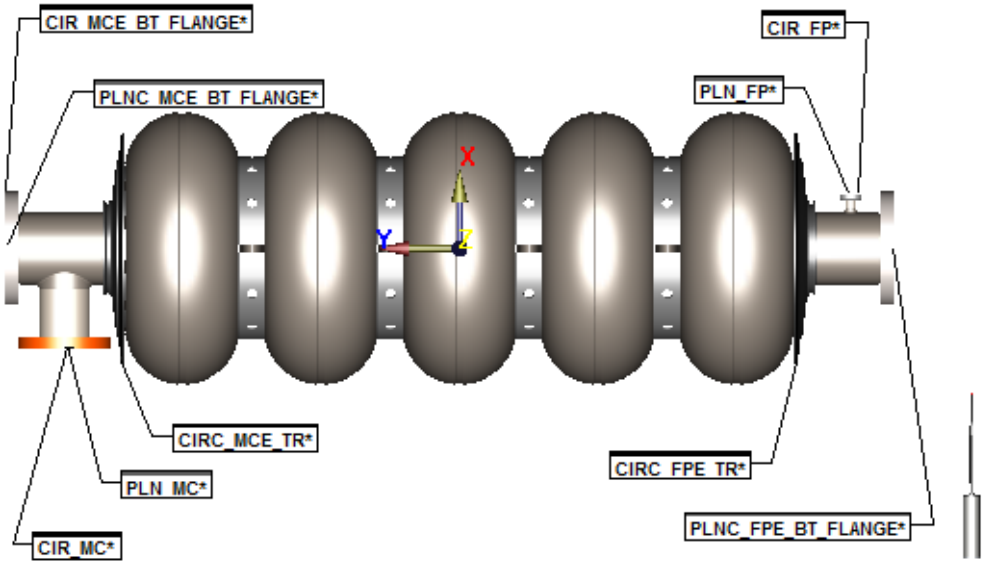
	MM	LOC24 - PLNC_FPE_BT_FLANGE		
AX		MEAS		
AX		I	J	K
V		0.00032	-1.00000	-0.00063
	MM	LOC25 - PLNC_FPE_BT_FLANGE_SS		
AX		MEAS		
AX		I	J	K
V		0.00038	-1.00000	-0.00064
	MM	LOC26 - PLN_FP		
AX		MEAS		
AX		I	J	K
V		0.99999	-0.00273	0.00433
	MM	LOC27 - PLN_FP_SS		
AX		MEAS		
AX		I	J	K
V		0.99999	-0.00273	0.00447
	MM	LOC28 - PLNC_MCE_BT_FLANGE		
AX		MEAS		
AX		I	J	K
V		-0.00054	1.00000	0.00001
	MM	LOC29 - PLNC_MCE_BT_FLANGE_SS		
AX		MEAS		

AX	I	J	K
V	-0.00054	1.00000	-0.00003
⊕	MM	LOC30 - PLN_MC	
AX	MEAS		
AX	I	J	K
V	-0.99989	0.01442	-0.00239
⊕	MM	LOC31 - PLNC_MC_SS	
AX	MEAS		
AX	I	J	K
V	-0.99989	0.01447	-0.00236
⊕	MM	LOC32 - LINC_Z_AXIS	
AX	MEAS		
AX	I	J	K
V	0.00000	0.00000	1.00000
⊕	MM	LOC33 - LINC_FPE_BC	
AX	MEAS		
AX	I	J	K
V	-0.00902	0.00000	0.99996
⊕	MM	LOC34 - LINC_MCE_BC	
AX	MEAS		
AX	I	J	K
V	0.00104	0.00000	1.00000
⊕	MM	LOC35 - LINC_MC_BC	
AX	MEAS		
AX	I	J	K
V	0.00000	-0.00011	1.00000
⊕	MM	LOC37 - LINC_FP_BC	
AX	MEAS		
AX	I	J	K
V	0.00000	0.00124	1.00000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PLNC_MCE_BT_FLANGE*
CIR_FP*
PLN_FP*
X
Y
Z
CIRC_MCE_TR*
PLN_MC*
CIR_MC*
CIRC_FPE_TR*
PLNC_FPE_BT_FLANGE*