pc-dmis	PART NAME : PN482497_n_650_5cell_2of3_flanges_v01		November 08, 2013	13:07
	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-009
Routing Form Number : 96018
: 1311081050

****
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	1327.232	-6.396	1.500	1.500	4.896	

****
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	92.490	3.290	1.500	1.500	1.790	

****
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	1173.020	-6.407	1.500	1.500	4.907	

****
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	68.118	3.117	1.500	1.500	1.617	

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FIELD PROBE END BEAM TUBE FLANGE
****
****

⊕	MM	LOC1 - CIR_FPE_BT_FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.127	0.127	0.200	0.200	0.000	
Z	0.000	0.016	0.016	0.200	0.200	0.000	
D	170.000	169.952	-0.048	0.200	0.200	0.000	
RN	0.000	0.024	0.024	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	0.994	-0.006	0.200	0.200	0.000	
⊕	MM	LOC2 - PLN_FPE_BEAM_TUBE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	-651.814	-648.588	3.226	1.500	1.500	1.726	
FL	0.000	0.012	0.012	0.250	0.000	0.000	

⌖	MM	LOC3 - PLNC_FPE_BT_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	-651.814	-648.568	3.246	1.500	1.500	1.746
FL	0.000	0.028	0.028	0.250	0.000	0.000

⌖	MM	LOC4 - PLNC_FPE_BT_FLANGE_SS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	-650.814	-647.574	3.240	1.500	1.500	1.740
FL	0.000	0.019	0.019	0.250	0.000	0.000

//	MM	PARL1 - PLNC_FPE_BT_FLANGE TO YMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.179	0.179	0.250	0	0.000

⌖	MM	LOC5 - CIRC_FPE_BC				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.138	0.138	0.200	0.200	0.000
Z	0.000	0.028	0.028	0.200	2.000	0.000
D	151.600	151.538	-0.062	0.200	0.200	0.000
RN	0.000	0.063	0.063	0.200	0.000	0.000

****

BOLT CIRCLE POSITION TO FLANGE & CAVITY ROTATION

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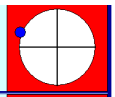
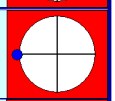
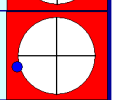
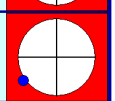
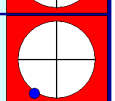
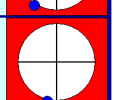
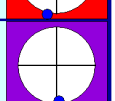
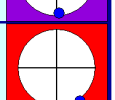
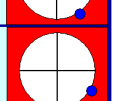
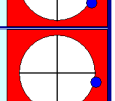
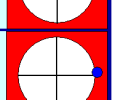
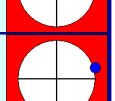
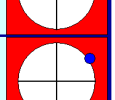
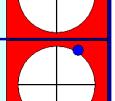
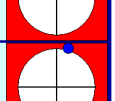
FCFLOC1 Size	MM	18XØ8.5 0.13/0.13					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_FPE_BC1	8.500	8.522	0.022	0.130	0.130	0.000	0.152
CIR_FPE_BC2	8.500	8.509	0.009	0.130	0.130	0.000	0.139
CIR_FPE_BC3	8.500	8.506	0.006	0.130	0.130	0.000	0.136
CIR_FPE_BC4	8.500	8.503	0.003	0.130	0.130	0.000	0.133
CIR_FPE_BC5	8.500	8.518	0.018	0.130	0.130	0.000	0.148
CIR_FPE_BC6	8.500	8.513	0.013	0.130	0.130	0.000	0.143
CIR_FPE_BC7	8.500	8.508	0.008	0.130	0.130	0.000	0.138
CIR_FPE_BC8	8.500	8.498	-0.002	0.130	0.130	0.000	0.128
CIR_FPE_BC9	8.500	8.498	-0.002	0.130	0.130	0.000	0.128
CIR_FPE_BC10	8.500	8.551	0.051	0.130	0.130	0.000	0.181
CIR_FPE_BC11	8.500	8.512	0.012	0.130	0.130	0.000	0.142
CIR_FPE_BC12	8.500	8.505	0.005	0.130	0.130	0.000	0.135
CIR_FPE_BC13	8.500	8.496	-0.004	0.130	0.130	0.000	0.126
CIR_FPE_BC14	8.500	8.503	0.003	0.130	0.130	0.000	0.133
CIR_FPE_BC15	8.500	8.507	0.007	0.130	0.130	0.000	0.137
CIR_FPE_BC16	8.500	8.503	0.003	0.130	0.130	0.000	0.133
CIR_FPE_BC17	8.500	8.502	0.002	0.130	0.130	0.000	0.132
CIR_FPE_BC18	8.500	8.499	-0.001	0.130	0.130	0.000	0.129

FCFLOC1 Position	MM	⌖ Ø.2 Ⓜ A B					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_FPE_BC1	0.000	0.330	0.330	0.200		0.000	0.152
CIR_FPE_BC2	0.000	0.392	0.392	0.200		0.054	0.139
CIR_FPE_BC3	0.000	0.362	0.362	0.200		0.026	0.136

CIR_FPE_BC4	0.38352	0.13271	
CIR_FPE_BC5	0.38850	0.14806	
CIR_FPE_BC6	0.37944	0.14304	
CIR_FPE_BC7	0.38794	0.13776	
CIR_FPE_BC8	0.43421	0.12812	
CIR_FPE_BC9	0.40115	0.12789	
CIR_FPE_BC10	0.34844	0.18134	
CIR_FPE_BC11	0.42380	0.14160	
CIR_FPE_BC12	0.46218	0.13507	
CIR_FPE_BC13	0.40768	0.12608	
CIR_FPE_BC14	0.47964	0.13295	
CIR_FPE_BC15	0.44044	0.13713	
CIR_FPE_BC16	0.46469	0.13264	
CIR_FPE_BC17	0.46395	0.13201	
CIR_FPE_BC18	0.40228	0.12851	

FCFLOC1 Datum Shift

Segment	Shift X	Shift Y	Shift Z	Rotation X	Rotation Y	Rotation Z
Segment 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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

Feature	AX	NOMINAL	MEAS	DEV
CIR_FPE_BC1	X	75.80000	75.79330	-0.00670
	Z	0.00000	0.16481	0.16481
CIR_FPE_BC2	X	71.22900	71.13644	-0.09256
	Z	25.92500	26.09795	0.17295
CIR_FPE_BC3	X	58.06600	57.93199	-0.13401
	Z	48.72300	48.84469	0.12169
CIR_FPE_BC4	X	37.90000	37.72181	-0.17819
	Z	65.64500	65.71586	0.07086
CIR_FPE_BC5	X	13.16300	12.96876	-0.19424
	Z	74.64800	74.64559	-0.00241
CIR_FPE_BC6	X	-13.16300	-13.34575	-0.18275
	Z	74.64800	74.59705	-0.05095

CIR_FPE_BC7	X	-37.90000	-38.05867	-0.15867
	Z	65.64500	65.53342	-0.11158
CIR_FPE_BC8	X	-58.06600	-58.18520	-0.11920
	Z	48.72300	48.54154	-0.18146
CIR_FPE_BC9	X	-71.22900	-71.27417	-0.04517
	Z	25.92500	25.72958	-0.19542
CIR_FPE_BC10	X	-75.80000	-75.78919	0.01081
	Z	0.00000	-0.17388	-0.17388
CIR_FPE_BC11	X	-71.22900	-71.10606	0.12294
	Z	-25.92500	-26.09760	-0.17260
CIR_FPE_BC12	X	-58.06600	-57.86604	0.19996
	Z	-48.72300	-48.83884	-0.11584
CIR_FPE_BC13	X	-37.90000	-37.70131	0.19869
	Z	-65.64500	-65.69051	-0.04551
CIR_FPE_BC14	X	-13.16300	-12.92400	0.23900
	Z	-74.64800	-74.62816	0.01984
CIR_FPE_BC15	X	13.16300	13.37460	0.21160
	Z	-74.64800	-74.58699	0.06101
CIR_FPE_BC16	X	37.90000	38.09136	0.19136
	Z	-65.64500	-65.51322	0.13178
CIR_FPE_BC17	X	58.06600	58.18999	0.12399
	Z	-48.72300	-48.52694	0.19606
CIR_FPE_BC18	X	71.22900	71.28584	0.05684
	Z	-25.92500	-25.73206	0.19294

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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	8.522	0.022	0.130	0.130	0.000	0.152
CIR_FPE_BC2	8.500	8.509	0.009	0.130	0.130	0.000	0.139
CIR_FPE_BC3	8.500	8.506	0.006	0.130	0.130	0.000	0.136
CIR_FPE_BC4	8.500	8.503	0.003	0.130	0.130	0.000	0.133
CIR_FPE_BC5	8.500	8.518	0.018	0.130	0.130	0.000	0.148
CIR_FPE_BC6	8.500	8.513	0.013	0.130	0.130	0.000	0.143
CIR_FPE_BC7	8.500	8.508	0.008	0.130	0.130	0.000	0.138
CIR_FPE_BC8	8.500	8.498	-0.002	0.130	0.130	0.000	0.128
CIR_FPE_BC9	8.500	8.498	-0.002	0.130	0.130	0.000	0.128
CIR_FPE_BC10	8.500	8.551	0.051	0.130	0.130	0.000	0.181
CIR_FPE_BC11	8.500	8.512	0.012	0.130	0.130	0.000	0.142
CIR_FPE_BC12	8.500	8.505	0.005	0.130	0.130	0.000	0.135
CIR_FPE_BC13	8.500	8.496	-0.004	0.130	0.130	0.000	0.126
CIR_FPE_BC14	8.500	8.503	0.003	0.130	0.130	0.000	0.133
CIR_FPE_BC15	8.500	8.507	0.007	0.130	0.130	0.000	0.137
CIR_FPE_BC16	8.500	8.503	0.003	0.130	0.130	0.000	0.133
CIR_FPE_BC17	8.500	8.502	0.002	0.130	0.130	0.000	0.132
CIR_FPE_BC18	8.500	8.499	-0.001	0.130	0.130	0.000	0.129

FCFLOC2 Position	MM	⌖ Ø.2 Ⓜ A					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS

CIR_FPE_BC1	0.10613	0.15229	
CIR_FPE_BC2	0.07213	0.13862	
CIR_FPE_BC3	0.09025	0.13564	
CIR_FPE_BC4	0.07801	0.13271	
CIR_FPE_BC5	0.08921	0.14806	
CIR_FPE_BC6	0.06785	0.14304	
CIR_FPE_BC7	0.05928	0.13776	
CIR_FPE_BC8	0.05016	0.12812	
CIR_FPE_BC9	0.06061	0.12789	
CIR_FPE_BC10	0.08971	0.18134	
CIR_FPE_BC11	0.11544	0.14160	
CIR_FPE_BC12	0.15681	0.13507	
CIR_FPE_BC13	0.12757	0.12608	
CIR_FPE_BC14	0.12485	0.13295	
CIR_FPE_BC15	0.04614	0.13713	
CIR_FPE_BC16	0.04596	0.13264	
CIR_FPE_BC17	0.06628	0.13201	
CIR_FPE_BC18	0.04152	0.12851	

FCFLOC2 Datum Shift

Segment	Shift X	Shift Y	Shift Z	Rotation X	Rotation Y	Rotation Z
Segment 1	0.00000	0.00000	0.00000	0.00000	0.16440	0.00000

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

Feature	AX	NOMINAL	MEAS	DEV
CIR_FPE_BC1	X	75.80000	75.79346	-0.00654
	Z	0.00000	-0.05266	-0.05266
CIR_FPE_BC2	X	71.22900	71.21103	-0.01797
	Z	25.92500	25.89373	-0.03127
CIR_FPE_BC3	X	58.06600	58.07190	0.00590
	Z	48.72300	48.67826	-0.04474

CIR_FPE_BC4	X	37.90000	37.91022	0.01022
	Z	65.64500	65.60735	-0.03765
CIR_FPE_BC5	X	13.16300	13.18289	0.01989
	Z	74.64800	74.60807	-0.03993
CIR_FPE_BC6	X	-13.16300	-13.13165	0.03135
	Z	74.64800	74.63503	-0.01297
CIR_FPE_BC7	X	-37.90000	-37.87048	0.02952
	Z	65.64500	65.64236	-0.00264
CIR_FPE_BC8	X	-58.06600	-58.04568	0.02032
	Z	48.72300	48.70829	-0.01471
CIR_FPE_BC9	X	-71.22900	-71.20005	0.02895
	Z	25.92500	25.93398	0.00898
CIR_FPE_BC10	X	-75.80000	-75.78937	0.01063
	Z	0.00000	0.04358	0.04358
CIR_FPE_BC11	X	-71.22900	-71.18065	0.04835
	Z	-25.92500	-25.89346	0.03154
CIR_FPE_BC12	X	-58.06600	-58.00594	0.06006
	Z	-48.72300	-48.67260	0.05040
CIR_FPE_BC13	X	-37.90000	-37.88964	0.01036
	Z	-65.64500	-65.58206	0.06294
CIR_FPE_BC14	X	-13.16300	-13.13808	0.02492
	Z	-74.64800	-74.59077	0.05723
CIR_FPE_BC15	X	13.16300	13.16053	-0.00247
	Z	-74.64800	-74.62506	0.02294
CIR_FPE_BC16	X	37.90000	37.90323	0.00323
	Z	-65.64500	-65.62225	0.02275
CIR_FPE_BC17	X	58.06600	58.05051	-0.01549
	Z	-48.72300	-48.69370	0.02930
CIR_FPE_BC18	X	71.22900	71.21171	-0.01729
	Z	-25.92500	-25.93649	-0.01149

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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	0.028	0.028	0.200	0.200	0.000
Z	0.000	-0.034	-0.034	0.200	0.200	0.000
D	170.000	169.970	-0.030	0.200	0.200	0.000
RN	0.000	0.017	0.017	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	0.997	-0.003	0.200	0.200	0.000

⊕	MM	LOC15 - PLN_MCE_BEAM_TUBE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	681.814	678.661	-3.153	1.500	1.500	1.653
FL	0.000	0.016	0.016	0.250	0.000	0.000

⌖	MM	LOC16 - PLNC_MCE_BT_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	681.814	678.664	-3.150	1.500	1.500	1.650
FL	0.000	0.028	0.028	0.250	0.000	0.000

⌖	MM	LOC17 - PLNC_MCE_BT_FLANGE_SS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	680.814	677.667	-3.147	1.500	1.500	1.647
FL	0.000	0.015	0.015	0.250	0.000	0.000

//	MM	PARL2 - PLNC_MCE_BT_FLANGE TO YMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.063	0.063	0.250	0	0.000

⌖	MM	LOC18 - CIRC_MCE_BC				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.015	0.015	0.200	0.200	0.000
Z	0.000	-0.049	-0.049	0.200	0.200	0.000
D	151.600	151.564	-0.036	0.200	0.200	0.000
RN	0.000	0.066	0.066	0.200	0.000	0.000

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BOLT CIRCLE POSITION TO FLANGE & CAVITY ROTATION

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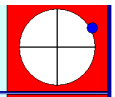
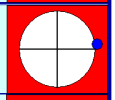
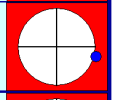
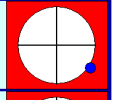
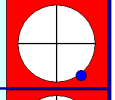
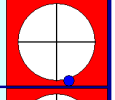
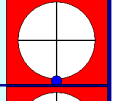
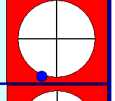
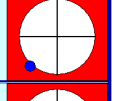
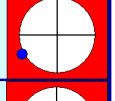
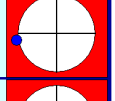
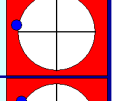
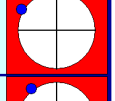
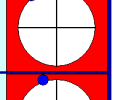
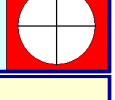
FCFLOC3 Size	MM	18XØ8.5 0.13/0.13					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_MCE_BC1	8.500	8.512	0.012	0.130	0.130	0.000	0.142
CIR_MCE_BC2	8.500	8.506	0.006	0.130	0.130	0.000	0.136
CIR_MCE_BC3	8.500	8.503	0.003	0.130	0.130	0.000	0.133
CIR_MCE_BC4	8.500	8.529	0.029	0.130	0.130	0.000	0.159
CIR_MCE_BC5	8.500	8.523	0.023	0.130	0.130	0.000	0.153
CIR_MCE_BC6	8.500	8.525	0.025	0.130	0.130	0.000	0.155
CIR_MCE_BC7	8.500	8.511	0.011	0.130	0.130	0.000	0.141
CIR_MCE_BC8	8.500	8.521	0.021	0.130	0.130	0.000	0.151
CIR_MCE_BC9	8.500	8.515	0.015	0.130	0.130	0.000	0.145
CIR_MCE_BC...	8.500	8.529	0.029	0.130	0.130	0.000	0.159
CIR_MCE_BC...	8.500	8.523	0.023	0.130	0.130	0.000	0.153
CIR_MCE_BC...	8.500	8.509	0.009	0.130	0.130	0.000	0.139
CIR_MCE_BC...	8.500	8.514	0.014	0.130	0.130	0.000	0.144
CIR_MCE_BC...	8.500	8.519	0.019	0.130	0.130	0.000	0.149
CIR_MCE_BC...	8.500	8.515	0.015	0.130	0.130	0.000	0.145
CIR_MCE_BC...	8.500	8.505	0.005	0.130	0.130	0.000	0.135
CIR_MCE_BC...	8.500	8.507	0.007	0.130	0.130	0.000	0.137
CIR_MCE_BC...	8.500	8.513	0.013	0.130	0.130	0.000	0.143

FCFLOC3 Position	MM	⌖ Ø.2 Ⓜ C B					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_MCE_BC1	0.000	1.883	1.883	0.200		1.541	0.142
CIR_MCE_BC2	0.000	1.833	1.833	0.200		1.498	0.136
CIR_MCE_BC3	0.000	1.781	1.781	0.200		1.449	0.133

CIR_MCE_BC4	1.83146	0.15898	
CIR_MCE_BC5	1.81913	0.15278	
CIR_MCE_BC6	1.88721	0.15524	
CIR_MCE_BC7	1.89463	0.14121	
CIR_MCE_BC8	1.95048	0.15130	
CIR_MCE_BC9	2.01363	0.14502	
CIR_MCE_BC10	1.89964	0.15869	
CIR_MCE_BC11	1.89722	0.15273	
CIR_MCE_BC12	1.85443	0.13861	
CIR_MCE_BC13	1.82831	0.14392	
CIR_MCE_BC14	1.83471	0.14907	
CIR_MCE_BC15	1.94136	0.14541	
CIR_MCE_BC16	1.84342	0.13454	
CIR_MCE_BC17	1.83570	0.13698	
CIR_MCE_BC18	1.84920	0.14298	

FCFLOC3 Datum Shift

Segment	Shift X	Shift Y	Shift Z	Rotation X	Rotation Y	Rotation Z
Segment 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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

Feature	AX	NOMINAL	MEAS	DEV
CIR_MCE_BC1	X	-75.80000	-75.81291	-0.01291
	Z	0.00000	0.94146	0.94146
CIR_MCE_BC2	X	-71.22900	-70.91439	0.31461
	Z	25.92500	26.78603	0.86103
CIR_MCE_BC3	X	-58.06600	-57.48377	0.58223
	Z	48.72300	49.39704	0.67404
CIR_MCE_BC4	X	-37.90000	-37.09512	0.80488
	Z	65.64500	66.08173	0.43673
CIR_MCE_BC5	X	-13.16300	-12.26005	0.90295
	Z	74.64800	74.75749	0.10949
CIR_MCE_BC6	X	13.16300	14.07813	0.91513
	Z	74.64800	74.41797	-0.23003

CIR_MCE_BC7	X	37.90000	38.68872	0.78872
	Z	65.64500	65.12028	-0.52472
CIR_MCE_BC8	X	58.06600	58.65871	0.59271
	Z	48.72300	47.94854	-0.77446
CIR_MCE_BC9	X	71.22900	71.53953	0.31053
	Z	25.92500	24.96727	-0.95773
CIR_MCE_BC10	X	75.80000	75.80190	0.00190
	Z	0.00000	-0.94982	-0.94982
CIR_MCE_BC11	X	71.22900	70.88196	-0.34704
	Z	-25.92500	-26.80785	-0.88285
CIR_MCE_BC12	X	58.06600	57.44184	-0.62416
	Z	-48.72300	-49.40868	-0.68568
CIR_MCE_BC13	X	37.90000	37.09437	-0.80563
	Z	-65.64500	-66.07702	-0.43202
CIR_MCE_BC14	X	13.16300	12.25829	-0.90471
	Z	-74.64800	-74.79977	-0.15177
CIR_MCE_BC15	X	-13.16300	-14.11959	-0.95659
	Z	-74.64800	-74.48321	0.16479
CIR_MCE_BC16	X	-37.90000	-38.69079	-0.79079
	Z	-65.64500	-65.17150	0.47350
CIR_MCE_BC17	X	-58.06600	-58.63144	-0.56544
	Z	-48.72300	-48.00000	0.72300
CIR_MCE_BC18	X	-71.22900	-71.53671	-0.30771
	Z	-25.92500	-25.05311	0.87189

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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	8.512	0.012	0.130	0.130	0.000	0.142
CIR_MCE_BC2	8.500	8.506	0.006	0.130	0.130	0.000	0.136
CIR_MCE_BC3	8.500	8.503	0.003	0.130	0.130	0.000	0.133
CIR_MCE_BC4	8.500	8.529	0.029	0.130	0.130	0.000	0.159
CIR_MCE_BC5	8.500	8.523	0.023	0.130	0.130	0.000	0.153
CIR_MCE_BC6	8.500	8.525	0.025	0.130	0.130	0.000	0.155
CIR_MCE_BC7	8.500	8.511	0.011	0.130	0.130	0.000	0.141
CIR_MCE_BC8	8.500	8.521	0.021	0.130	0.130	0.000	0.151
CIR_MCE_BC9	8.500	8.515	0.015	0.130	0.130	0.000	0.145
CIR_MCE_BC...	8.500	8.529	0.029	0.130	0.130	0.000	0.159
CIR_MCE_BC...	8.500	8.523	0.023	0.130	0.130	0.000	0.153
CIR_MCE_BC...	8.500	8.509	0.009	0.130	0.130	0.000	0.139
CIR_MCE_BC...	8.500	8.514	0.014	0.130	0.130	0.000	0.144
CIR_MCE_BC...	8.500	8.519	0.019	0.130	0.130	0.000	0.149
CIR_MCE_BC...	8.500	8.515	0.015	0.130	0.130	0.000	0.145
CIR_MCE_BC...	8.500	8.505	0.005	0.130	0.130	0.000	0.135
CIR_MCE_BC...	8.500	8.507	0.007	0.130	0.130	0.000	0.137
CIR_MCE_BC...	8.500	8.513	0.013	0.130	0.130	0.000	0.143

FCFLOC4 Position	MM	⌖ Ø.2 Ⓜ C					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS

CIR_MCE_BC1	0.04043	0.14171	
CIR_MCE_BC2	0.06483	0.13574	
CIR_MCE_BC3	0.11712	0.13274	
CIR_MCE_BC4	0.07607	0.15898	
CIR_MCE_BC5	0.11821	0.15278	
CIR_MCE_BC6	0.12429	0.15524	
CIR_MCE_BC7	0.10846	0.14121	
CIR_MCE_BC8	0.09124	0.15130	
CIR_MCE_BC9	0.12939	0.14502	
CIR_MCE_BC10	0.01581	0.15869	
CIR_MCE_BC11	0.03646	0.15273	
CIR_MCE_BC12	0.07711	0.13861	
CIR_MCE_BC13	0.08358	0.14392	
CIR_MCE_BC14	0.06297	0.14907	
CIR_MCE_BC15	0.04798	0.14541	
CIR_MCE_BC16	0.05708	0.13454	
CIR_MCE_BC17	0.08117	0.13698	
CIR_MCE_BC18	0.04882	0.14298	

FCFLOC4 Datum Shift

Segment	Shift X	Shift Y	Shift Z	Rotation X	Rotation Y	Rotation Z
Segment 1	0.00000	0.00000	0.00000	0.00000	359.28283	0.00000

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

Feature	AX	NOMINAL	MEAS	DEV
CIR_MCE_BC1	X	-75.80000	-75.81876	-0.01876
	Z	0.00000	-0.00753	-0.00753
CIR_MCE_BC2	X	-71.22900	-71.24411	-0.01511
	Z	25.92500	25.89632	-0.02868
CIR_MCE_BC3	X	-58.06600	-58.09755	-0.03155
	Z	48.72300	48.67367	-0.04933

CIR_MCE_BC4	X	-37.90000	-37.91934	-0.01934
	Z	65.64500	65.61224	-0.03276
CIR_MCE_BC5	X	-13.16300	-13.19480	-0.03180
	Z	74.64800	74.59818	-0.04982
CIR_MCE_BC6	X	13.16300	13.14557	-0.01743
	Z	74.64800	74.58835	-0.05965
CIR_MCE_BC7	X	37.90000	37.87060	-0.02940
	Z	65.64500	65.59943	-0.04557
CIR_MCE_BC8	X	58.06600	58.05396	-0.01204
	Z	48.72300	48.67900	-0.04400
CIR_MCE_BC9	X	71.22900	71.22142	-0.00758
	Z	25.92500	25.86075	-0.06425
CIR_MCE_BC10	X	75.80000	75.80785	0.00785
	Z	0.00000	-0.00096	-0.00096
CIR_MCE_BC11	X	71.22900	71.21195	-0.01705
	Z	-25.92500	-25.91854	0.00646
CIR_MCE_BC12	X	58.06600	58.05577	-0.01023
	Z	-48.72300	-48.68583	0.03717
CIR_MCE_BC13	X	37.90000	37.91852	0.01852
	Z	-65.64500	-65.60754	0.03746
CIR_MCE_BC14	X	13.16300	13.19357	0.03057
	Z	-74.64800	-74.64048	0.00752
CIR_MCE_BC15	X	-13.16300	-13.18620	-0.02320
	Z	-74.64800	-74.65411	-0.00611
CIR_MCE_BC16	X	-37.90000	-37.87203	0.02797
	Z	-65.64500	-65.65068	-0.00568
CIR_MCE_BC17	X	-58.06600	-58.02604	0.03996
	Z	-48.72300	-48.73011	-0.00711
CIR_MCE_BC18	X	-71.22900	-71.21752	0.01148
	Z	-25.92500	-25.94654	-0.02154

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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	0.859	0.859	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	589.324	-3.290	1.500	1.500	1.790	
Z	0.000	0.010	0.010	0.200	0.200	0.000	
D	140.000	139.952	-0.048	0.200	0.200	0.000	
RN	0.000	0.019	0.019	0.200	0.000	0.000	

↔	MM	DIST7 - PLN_MC TO PLNC_MC_SS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1.000	1.013	0.013	0.200	0.200	0.000	

⌖	MM	LOC7 - PLN_MC				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-150.000	-148.359	1.641	1.500	1.500	0.141
FL	0.000	0.029	0.029	0.250	0.000	0.000

⌖	MM	LOC8 - PLNC_MC_SS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-149.000	-147.346	1.654	1.500	1.500	0.154
FL	0.000	0.028	0.028	0.250	0.000	0.000

⌖	MM	LOC9 - PLN_MC_TUBE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-150.000	-148.321	1.679	1.500	1.500	0.179
FL	0.000	0.023	0.023	0.250	0.000	0.000

//	MM	PARL3 - PLN_MC TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	1.309	1.309	0.250	0	1.059

⌖	MM	LOC10 - CIRC_MC_BC				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	592.614	589.287	-3.327	1.500	1.500	1.827
Z	0.000	0.009	0.009	0.200	0.200	0.000
D	120.000	119.946	-0.054	0.200	0.200	0.000
RN	0.000	0.038	0.038	0.200	0.000	0.000

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BOLT CIRCLE POSITION TO FLANGE & CAVITY ROTATION

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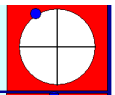
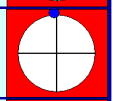
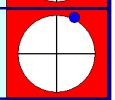
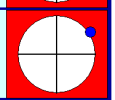
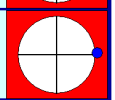
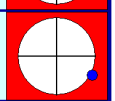
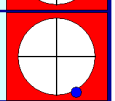
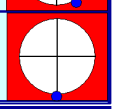
FCFLOC5 Size	MM	12XØ8.8 0.13/0.13					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_MC_BH_...	8.800	8.830	0.030	0.130	0.130	0.000	0.160
CIR_MC_BH_...	8.800	8.838	0.038	0.130	0.130	0.000	0.168
CIR_MC_BH_...	8.800	8.843	0.043	0.130	0.130	0.000	0.173
CIR_MC_BH_...	8.800	8.844	0.044	0.130	0.130	0.000	0.174
CIR_MC_BH_...	8.800	8.863	0.063	0.130	0.130	0.000	0.193
CIR_MC_BH_...	8.800	8.833	0.033	0.130	0.130	0.000	0.163
CIR_MC_BH_...	8.800	8.843	0.043	0.130	0.130	0.000	0.173
CIR_MC_BH_...	8.800	8.841	0.041	0.130	0.130	0.000	0.171
CIR_MC_BH_...	8.800	8.837	0.037	0.130	0.130	0.000	0.167
CIR_MC_BH_...	8.800	8.831	0.031	0.130	0.130	0.000	0.161
CIR_MC_BH_...	8.800	8.856	0.056	0.130	0.130	0.000	0.186
CIR_MC_BH_...	8.800	8.852	0.052	0.130	0.130	0.000	0.182

FCFLOC5 Position	MM	⌖ Ø0.2 Ⓜ D B					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_MC_BH_30	0.000	2.083	2.083	0.200		1.723	0.160
CIR_MC_BH_60	0.000	2.116	2.116	0.200		1.748	0.168
CIR_MC_BH_0...	0.000	2.061	2.061	0.200		1.688	0.173
CIR_MC_BH_1...	0.000	2.045	2.045	0.200		1.671	0.174

CIR_MC_BH_150	2.03783	0.19325	
CIR_MC_BH_180	2.00260	0.16258	
CIR_MC_BH_210	2.02570	0.17290	
CIR_MC_BH_240	2.03762	0.17074	
CIR_MC_BH_270	2.00783	0.16721	
CIR_MC_BH_300	1.96541	0.16064	
CIR_MC_BH_330	1.99063	0.18633	
CIR_MC_BH_360	2.03119	0.18190	

FCFLOC5 Datum Shift

Segment	Shift X	Shift Y	Shift Z	Rotation X	Rotation Y	Rotation Z
Segment 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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

Feature	AX	NOMINAL	MEAS	DEV
CIR_MC_BH_30	Y	-51.96196	-52.48314	-0.52118
	Z	30.00000	29.09820	-0.90179
CIR_MC_BH_60	Y	-30.00044	-30.89758	-0.89713
	Z	51.96153	51.40035	-0.56118
CIR_MC_BH_090	Y	-0.00044	-1.03003	-1.02959
	Z	60.00000	59.95267	-0.04733
CIR_MC_BH_120	Y	29.99956	29.08638	-0.91318
	Z	51.96153	52.42130	0.45977
CIR_MC_BH_150	Y	51.96110	51.40513	-0.55597
	Z	30.00000	30.85387	0.85387
CIR_MC_BH_180	Y	59.99956	59.94272	-0.05684
	Z	0.00000	0.99969	0.99969
CIR_MC_BH_210	Y	51.96110	52.40526	0.44416
	Z	-30.00000	-29.08973	0.91027
CIR_MC_BH_240	Y	29.99956	30.85036	0.85081
	Z	-51.96152	-51.40107	0.56045
CIR_MC_BH_270	Y	-0.00044	1.00263	1.00307
	Z	-60.00000	-59.95881	0.04118
CIR_MC_BH_300	Y	-30.00044	-29.13287	0.86757
	Z	-51.96152	-52.42307	-0.46155
CIR_MC_BH_330	Y	-51.96196	-51.47562	0.48634
	Z	-30.00001	-30.86841	-0.86840
CIR_MC_BH_360	Y	-60.00044	-60.02063	-0.02019
	Z	0.00000	-1.01539	-1.01539

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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_...	8.800	8.830	0.030	0.130	0.130	0.000	0.160
CIR_MC_BH_...	8.800	8.838	0.038	0.130	0.130	0.000	0.168
CIR_MC_BH_...	8.800	8.843	0.043	0.130	0.130	0.000	0.173
CIR_MC_BH_...	8.800	8.844	0.044	0.130	0.130	0.000	0.174
CIR_MC_BH_...	8.800	8.863	0.063	0.130	0.130	0.000	0.193
CIR_MC_BH_...	8.800	8.833	0.033	0.130	0.130	0.000	0.163
CIR_MC_BH_...	8.800	8.843	0.043	0.130	0.130	0.000	0.173
CIR_MC_BH_...	8.800	8.841	0.041	0.130	0.130	0.000	0.171
CIR_MC_BH_...	8.800	8.837	0.037	0.130	0.130	0.000	0.167
CIR_MC_BH_...	8.800	8.831	0.031	0.130	0.130	0.000	0.161
CIR_MC_BH_...	8.800	8.856	0.056	0.130	0.130	0.000	0.186
CIR_MC_BH_...	8.800	8.852	0.052	0.130	0.130	0.000	0.182

FCFLOC6 Position	MM	⌖ Ø0.2 Ⓜ D

Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_MC_BH_30	0.000	0.063	0.063	0.200		0.000	0.160
CIR_MC_BH_60	0.000	0.109	0.109	0.200		0.000	0.168
CIR_MC_BH_0...	0.000	0.086	0.086	0.200		0.000	0.173
CIR_MC_BH_1...	0.000	0.101	0.101	0.200		0.000	0.174
CIR_MC_BH_1...	0.000	0.093	0.093	0.200		0.000	0.193
CIR_MC_BH_1...	0.000	0.099	0.099	0.200		0.000	0.163
CIR_MC_BH_2...	0.000	0.124	0.124	0.200		0.000	0.173
CIR_MC_BH_2...	0.000	0.104	0.104	0.200		0.000	0.171
CIR_MC_BH_2...	0.000	0.067	0.067	0.200		0.000	0.167
CIR_MC_BH_3...	0.000	0.078	0.078	0.200		0.000	0.161
CIR_MC_BH_3...	0.000	0.054	0.054	0.200		0.000	0.186
CIR_MC_BH_3...	0.000	0.058	0.058	0.200		0.000	0.182

FCFLOC6 Datum Shift

Segment	Shift X	Shift Y	Shift Z	Rotation X	Rotation Y	Rotation Z
Segment 1	0.000	0.000	0.000	359.034	0.000	0.000

FCFLOC6 Summary FIT TO DATUMS=ON, DEV PERPEN CENTERLINE=ON

Feature	AX	NOMINAL	MEAS	DEV
CIR_MC_BH_30	Y	-51.962	-51.985	-0.023
	Z	30.000	29.979	-0.021

CIR_MC_BH_60	Y	-30.00044	-30.02671	-0.02627
	Z	51.96153	51.91390	-0.04763
CIR_MC_BH_090	Y	-0.00044	-0.01924	-0.01879
	Z	60.00000	59.96151	-0.03849
CIR_MC_BH_120	Y	29.99956	29.96594	-0.03362
	Z	51.96153	51.92352	-0.03800
CIR_MC_BH_150	Y	51.96110	51.91794	-0.04316
	Z	30.00000	29.98293	-0.01708
CIR_MC_BH_180	Y	59.99956	59.95105	-0.04851
	Z	0.00000	-0.01093	-0.01094
CIR_MC_BH_210	Y	51.96110	51.90743	-0.05367
	Z	-30.00000	-29.96901	0.03099
CIR_MC_BH_240	Y	29.99956	29.97949	-0.02007
	Z	-51.96152	-51.91382	0.04770
CIR_MC_BH_270	Y	-0.00044	-0.00827	-0.00783
	Z	-60.00000	-59.96720	0.03280
CIR_MC_BH_300	Y	-30.00044	-30.01245	-0.01201
	Z	-51.96152	-51.92452	0.03700
CIR_MC_BH_330	Y	-51.96196	-51.98867	-0.02671
	Z	-30.00001	-29.99628	0.00373
CIR_MC_BH_360	Y	-60.00044	-60.02922	-0.02878
	Z	0.00000	-0.00346	-0.00346

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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	-583.696	3.117	1.500	1.500	1.617
Z	0.000	0.372	0.372	0.200	0.200	0.172
D	33.800	33.769	-0.031	0.200	0.200	0.000
RN	0.000	0.055	0.055	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	0.538	0.038	0.050	0.000	0.000

⊕	MM	LOC12 - PLN_FP				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	80.000	78.934	-1.066	1.500	1.500	0.000
FL	0.000	0.003	0.003	0.250	0.000	0.000

⊕	MM	LOC13 - PLN_FP_SS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	79.500	78.396	-1.104	1.500	1.500	0.000
FL	0.000	0.007	0.007	0.250	0.000	0.000

⊕	MM	LOC19 - PLN_FP_TUBE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	80.000	78.924	-1.076	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	0.173	0.173	0.250	0	0.000

⌖	MM	LOC36 - CIRC_FP_BC				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	-586.814	-583.687	3.127	1.500	1.500	1.627
Z	0.000	0.388	0.388	0.200	0.200	0.188
D	27.000	26.936	-0.064	0.200	0.200	0.000
RN	0.000	0.051	0.051	0.200	0.000	0.000

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BOLT CIRCLE POSITION TO FLANGE & CAVITY ROTATION

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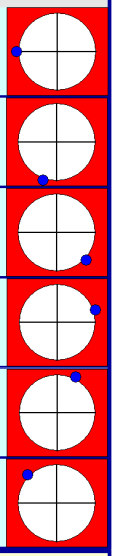
FCFLOC7 Size	MM	6XØ4.5 0.05/0.05					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_FP_BC1	4.500	4.564	0.064	0.050	0.050	0.014	0.000
CIR_FP_BC2	4.500	4.586	0.086	0.050	0.050	0.036	0.000
CIR_FP_BC3	4.500	4.576	0.076	0.050	0.050	0.026	0.000
CIR_FP_BC4	4.500	4.576	0.076	0.050	0.050	0.026	0.000
CIR_FP_BC5	4.500	4.570	0.070	0.050	0.050	0.020	0.000
CIR_FP_BC6	4.500	4.566	0.066	0.050	0.050	0.016	0.000

FCFLOC7 Position	MM	⌖ Ø0.2 E B					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_FP_BC1	0.000	0.380	0.380	0.200		0.180	0.000
CIR_FP_BC2	0.000	0.412	0.412	0.200		0.212	0.000
CIR_FP_BC3	0.000	0.374	0.374	0.200		0.174	0.000
CIR_FP_BC4	0.000	0.359	0.359	0.200		0.159	0.000
CIR_FP_BC5	0.000	0.424	0.424	0.200		0.224	0.000
CIR_FP_BC6	0.000	0.327	0.327	0.200		0.127	0.000



FCFLOC7 Datum Shift						
Segment	Shift X	Shift Y	Shift Z	Rotation X	Rotation Y	Rotation Z
Segment 1	0.000	0.000	0.000	0.000	0.000	0.000

FCFLOC7 Summary FIT TO DATUMS=ON, DEV PERPEN CENTERLINE=ON				
Feature	AX	NOMINAL	MEAS	DEV
CIR_FP_BC1	Y	0.000	-0.190	-0.190
	Z	13.500	13.500	0.000
CIR_FP_BC2	Y	-11.691	-11.761	-0.070
	Z	6.750	6.556	-0.194
CIR_FP_BC3	Y	-11.691	-11.556	0.136
	Z	-6.750	-6.878	-0.128
CIR_FP_BC4	Y	0.000	0.171	0.171
	Z	-13.500	-13.444	0.056
CIR_FP_BC5	Y	11.691	11.788	0.097
	Z	-6.750	-6.561	0.189
CIR_FP_BC6	Y	11.691	11.574	-0.117
	Z	6.750	6.864	0.114

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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	4.564	0.064	0.050	0.050	0.014	0.000
CIR_FP_BC2	4.500	4.586	0.086	0.050	0.050	0.036	0.000
CIR_FP_BC3	4.500	4.576	0.076	0.050	0.050	0.026	0.000
CIR_FP_BC4	4.500	4.576	0.076	0.050	0.050	0.026	0.000
CIR_FP_BC5	4.500	4.570	0.070	0.050	0.050	0.020	0.000
CIR_FP_BC6	4.500	4.566	0.066	0.050	0.050	0.016	0.000

FCFLOC8 Position	MM	⌖ Ø0.2 E					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_FP_BC1	0.000	0.038	0.038	0.200		0.000	0.000
CIR_FP_BC2	0.000	0.095	0.095	0.200		0.000	0.000
CIR_FP_BC3	0.000	0.106	0.106	0.200		0.000	0.000
CIR_FP_BC4	0.000	0.110	0.110	0.200		0.000	0.000
CIR_FP_BC5	0.000	0.083	0.083	0.200		0.000	0.000
CIR_FP_BC6	0.000	0.092	0.092	0.200		0.000	0.000

FCFLOC8 Datum Shift						
Segment	Shift X	Shift Y	Shift Z	Rotation X	Rotation Y	Rotation Z
Segment 1	0.000	0.000	0.000	359.273	0.000	0.000

FCFLOC8 Summary FIT TO DATUMS=ON, DEV PERPEN CENTERLINE=ON				
Feature	AX	NOMINAL	MEAS	DEV
CIR_FP_BC1	Y	0.000	-0.019	-0.019
	Z	13.500	13.501	0.001
CIR_FP_BC2	Y	-11.691	-11.677	0.014
	Z	6.750	6.705	-0.045
CIR_FP_BC3	Y	-11.691	-11.642	0.049
	Z	-6.750	-6.731	0.019
CIR_FP_BC4	Y	0.000	0.000	0.000
	Z	-13.500	-13.445	0.055
CIR_FP_BC5	Y	11.691	11.704	0.013
	Z	-6.750	-6.710	0.040
CIR_FP_BC6	Y	11.691	11.660	-0.031
	Z	6.750	6.716	-0.034

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TRANSITION RINGS
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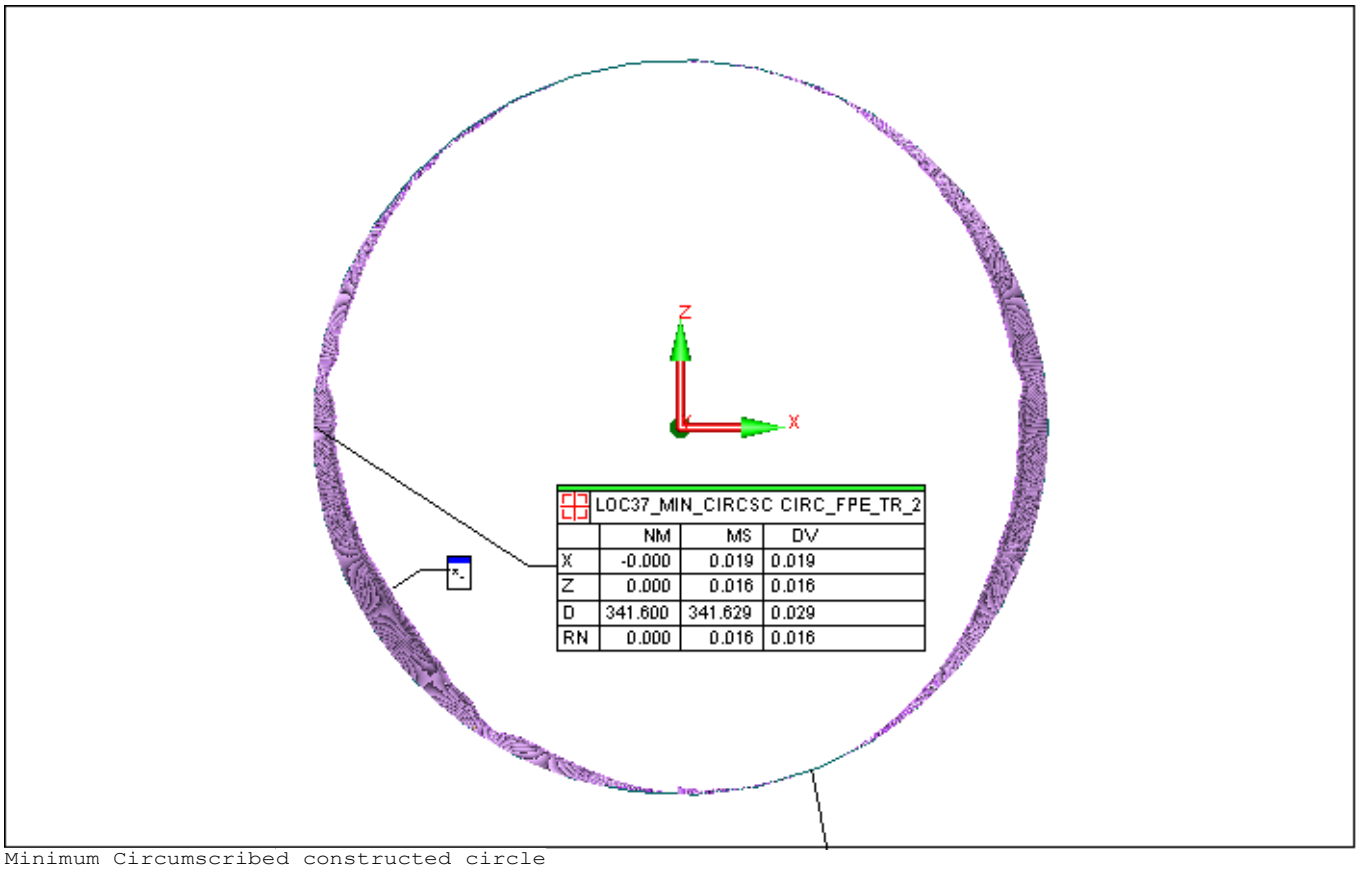
⌖	MM	LOC20 - CIR_FPE_TR					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.017	0.017	0.200	0.200	0.000	
Y	-507.877	-507.877	0.000	1.500	1.500	0.000	
Z	0.000	0.020	0.020	0.200	0.200	0.000	
D	341.600	341.609	0.009	0.200	0.200	0.000	
RN	0.000	0.019	0.019	0.200	0.000	0.000	

⌖	MM	LOC21 - CIR_MCE_TR					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.076	0.076	0.200	0.200	0.000	
Y	507.877	507.877	0.000	1.500	1.500	0.000	
Z	0.000	0.049	0.049	0.200	0.200	0.000	
D	341.600	341.609	0.009	0.200	0.200	0.000	
RN	0.000	0.017	0.017	0.200	0.000	0.000	

⌖	MM	LOC37_MIN_CIRCSC - CIRC_FPE_TR_2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.019	0.019	0.200	0.200	0.000	
Z	0.000	0.016	0.016	0.200	0.200	0.000	
D	341.600	341.629	0.029	0.200	0.200	0.000	
RN	0.000	0.016	0.016	0.051	0.000	0.000	

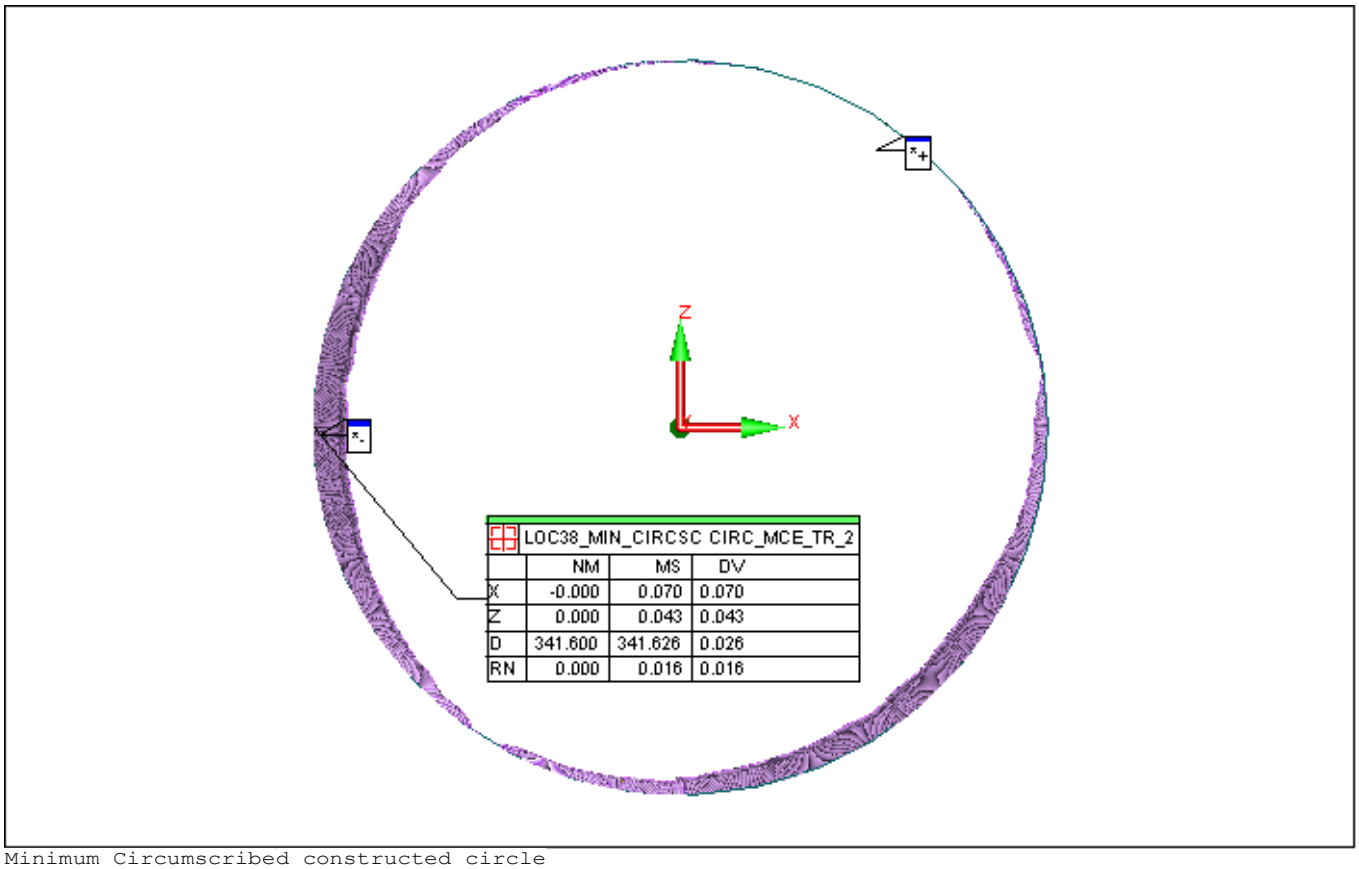
○	MM	CIRTY15 - CIRC_FPE_TR_2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.016	0.016	0.200	0.000	0.000	



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	0.070	0.070	0.200	0.200	0.000
Z	0.000	0.043	0.043	0.200	0.200	0.000
D	341.600	341.626	0.026	0.200	0.200	0.000
RN	0.000	0.016	0.016	0.051	0.000	0.000

	MM	CIRTY16 - CIRC_MCE_TR_2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.016	0.016	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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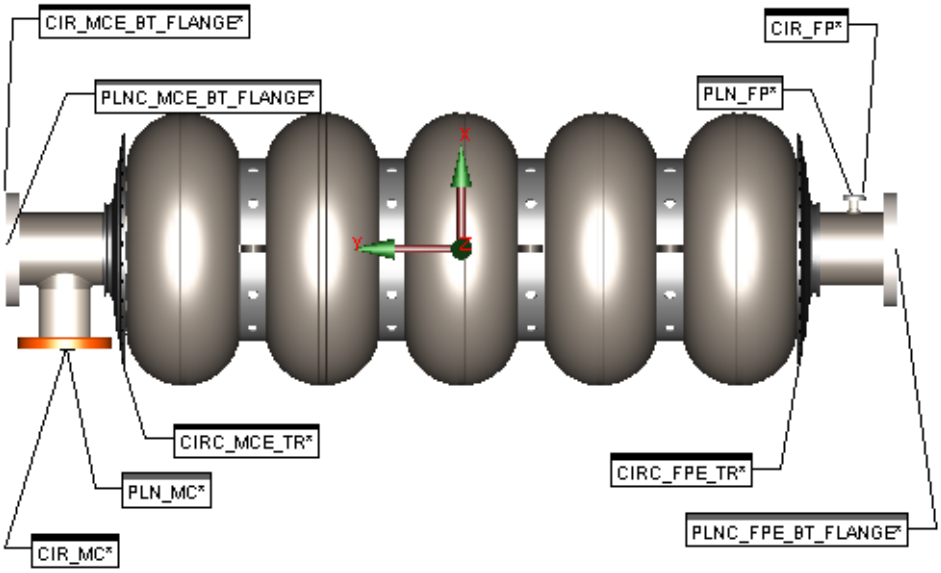
⊞	MM	LOC24 - PLNC_FPE_BT_FLANGE		
AX		MEAS		
AX		I	J	K
V		0.00092	-1.00000	0.00047
⊞	MM	LOC25 - PLNC_FPE_BT_FLANGE_SS		
AX		MEAS		
AX		I	J	K
V		0.00095	-1.00000	0.00044
⊞	MM	LOC26 - PLN_FP		
AX		MEAS		
AX		I	J	K
V		0.99998	0.00645	0.00150
⊞	MM	LOC27 - PLN_FP_SS		
AX		MEAS		
AX		I	J	K
V		0.99998	0.00642	0.00089
⊞	MM	LOC28 - PLNC_MCE_BT_FLANGE		
AX		MEAS		
AX		I	J	K
V		-0.00027	1.00000	0.00002
⊞	MM	LOC29 - PLNC_MCE_BT_FLANGE_SS		
AX		MEAS		

AX	I	J	K
V	-0.00028	1.00000	0.00003
⌖	MM	LOC30 - PLN_MC	
AX	MEAS		
AX	I	J	K
V	-0.99995	-0.00960	0.00093
⌖	MM	LOC31 - PLNC_MC_SS	
AX	MEAS		
AX	I	J	K
V	-0.99995	-0.00964	0.00087
⌖	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	-0.00265	0.00000	1.00000
⌖	MM	LOC34 - LINC_MCE_BC	
AX	MEAS		
AX	I	J	K
V	0.01234	0.00000	0.99992
⌖	MM	LOC35 - LINC_MC_BC	
AX	MEAS		
AX	I	J	K
V	0.00000	-0.00019	1.00000
⌖	MM	LOC37 - LINC_FP_BC	
AX	MEAS		
AX	I	J	K
V	0.00000	0.00064	1.00000


CIR_MCE_BT_FLANGE*
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*