pc-dmis	PART NAME : PN482497_n_650_5cell_2of3_flanges_v01		July 23, 2014	09:47
	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-007
Routing Form Number : 96017
: 1407230713

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OVERALL LENGTH BETWEEN BEAM TUBE FLANGES

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↔	MM	DIST1 - PLNC_FPE_BT_FLANGE TO PLNC_MCE_BT_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1333.628	1327.052	-6.576	1.500	1.500	5.076	

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DISTANCE BETWEEN MAIN COUPLER FLANGE & BEAM TUBE FLANGE

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↔	MM	DIST2 - CIR_MC TO CIR_MCE_BT_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	89.200	92.127	2.927	1.500	1.500	1.427	

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DISTANCE BETWEEN MAIN COUPLER FLANGE & FIELD PROBE FLANGE

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↔	MM	DIST3 - CIR_MC TO CIR_FP (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1179.428	1173.389	-6.039	1.500	1.500	4.539	

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DISTANCE BETWEEN FIELD PROBE FLANGE & BEAM TUBE FLANGE

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↔	MM	DIST4 - CIR_FP TO CIR_FPE_BT_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	65.000	68.113	3.112	1.500	1.500	1.612	

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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	-0.150	-0.150	0.200	0.200	0.000	
Z	0.000	-0.048	-0.048	0.200	0.200	0.000	
D	170.000	169.956	-0.044	0.200	0.200	0.000	
RN	0.000	0.021	0.021	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	0.967	-0.033	0.200	0.200	0.000	
⌖	MM	LOC2 - PLN_FPE_BEAM_TUBE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	-651.814	-648.450	3.364	1.500	1.500	1.864	
FL	0.000	0.014	0.014	0.250	0.000	0.000	

⌖	MM	LOC3 - PLNC_FPE_BT_FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	-651.814	-648.484	3.330	1.500	1.500	1.830	
FL	0.000	0.032	0.032	0.250	0.000	0.000	

⌖	MM	LOC4 - PLNC_FPE_BT_FLANGE_SS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	-650.814	-647.517	3.297	1.500	1.500	1.797	
FL	0.000	0.029	0.029	0.250	0.000	0.000	

//	MM	PARL1 - PLNC_FPE_BT_FLANGE TO YMINUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.103	0.103	0.250	0	0.000	

⌖	MM	LOC5 - CIRC_FPE_BC					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.143	-0.143	0.200	0.200	0.000	
Z	0.000	-0.047	-0.047	0.200	2.000	0.000	
D	151.600	151.560	-0.040	0.200	0.200	0.000	
RN	0.000	0.062	0.062	0.200	0.000	0.000	

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BOLT CIRCLE POSITION TO FLANGE & CAVITY ROTATION

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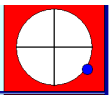
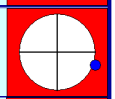
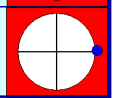
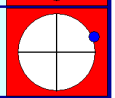
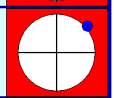
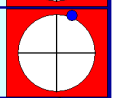
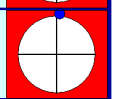
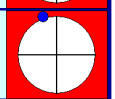
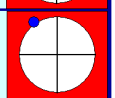
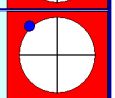
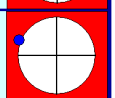
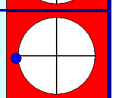
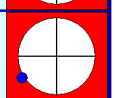
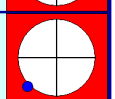
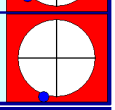
FCFLOC1 Size	MM	18XØ8.5 0.13/0.13					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_FPE_BC1	8.500	8.483	-0.017	0.130	0.130	0.000	0.113
CIR_FPE_BC2	8.500	8.484	-0.016	0.130	0.130	0.000	0.114
CIR_FPE_BC3	8.500	8.495	-0.005	0.130	0.130	0.000	0.125
CIR_FPE_BC4	8.500	8.505	0.005	0.130	0.130	0.000	0.135
CIR_FPE_BC5	8.500	8.498	-0.002	0.130	0.130	0.000	0.128
CIR_FPE_BC6	8.500	8.519	0.019	0.130	0.130	0.000	0.149
CIR_FPE_BC7	8.500	8.491	-0.009	0.130	0.130	0.000	0.121
CIR_FPE_BC8	8.500	8.496	-0.004	0.130	0.130	0.000	0.126
CIR_FPE_BC9	8.500	8.505	0.005	0.130	0.130	0.000	0.135
CIR_FPE_BC10	8.500	8.514	0.014	0.130	0.130	0.000	0.144
CIR_FPE_BC11	8.500	8.499	-0.001	0.130	0.130	0.000	0.129
CIR_FPE_BC12	8.500	8.506	0.006	0.130	0.130	0.000	0.136
CIR_FPE_BC13	8.500	8.518	0.018	0.130	0.130	0.000	0.148
CIR_FPE_BC14	8.500	8.508	0.008	0.130	0.130	0.000	0.138
CIR_FPE_BC15	8.500	8.492	-0.008	0.130	0.130	0.000	0.122
CIR_FPE_BC16	8.500	8.497	-0.003	0.130	0.130	0.000	0.127
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	0.456	0.456	0.200		0.143	0.113
CIR_FPE_BC2	0.000	0.434	0.434	0.200		0.120	0.114
CIR_FPE_BC3	0.000	0.457	0.457	0.200		0.132	0.125

CIR_FPE_BC4	0.491	0.135	
CIR_FPE_BC5	0.479	0.128	
CIR_FPE_BC6	0.469	0.149	
CIR_FPE_BC7	0.420	0.121	
CIR_FPE_BC8	0.388	0.126	
CIR_FPE_BC9	0.425	0.135	
CIR_FPE_BC10	0.494	0.144	
CIR_FPE_BC11	0.474	0.129	
CIR_FPE_BC12	0.492	0.136	
CIR_FPE_BC13	0.443	0.148	
CIR_FPE_BC14	0.484	0.138	
CIR_FPE_BC15	0.437	0.122	
CIR_FPE_BC16	0.426	0.127	
CIR_FPE_BC17	0.411	0.132	
CIR_FPE_BC18	0.427	0.129	

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	75.800	75.772	-0.028
	Z	0.000	-0.227	-0.227
CIR_FPE_BC2	X	71.229	71.295	0.066
	Z	25.925	25.718	-0.207
CIR_FPE_BC3	X	58.066	58.212	0.146
	Z	48.723	48.548	-0.175
CIR_FPE_BC4	X	37.900	38.105	0.205
	Z	65.645	65.510	-0.135
CIR_FPE_BC5	X	13.163	13.390	0.227
	Z	74.648	74.572	-0.076
CIR_FPE_BC6	X	-13.163	-12.928	0.235
	Z	74.648	74.655	0.007

CIR_FPE_BC7	X	-37.900	-37.705	0.195
	Z	65.645	65.724	0.079
CIR_FPE_BC8	X	-58.066	-57.920	0.146
	Z	48.723	48.850	0.127
CIR_FPE_BC9	X	-71.229	-71.147	0.082
	Z	25.925	26.121	0.196
CIR_FPE_BC10	X	-75.800	-75.782	0.018
	Z	0.000	0.246	0.246
CIR_FPE_BC11	X	-71.229	-71.309	-0.080
	Z	-25.925	-25.702	0.223
CIR_FPE_BC12	X	-58.066	-58.210	-0.144
	Z	-48.723	-48.524	0.199
CIR_FPE_BC13	X	-37.900	-38.054	-0.154
	Z	-65.645	-65.485	0.160
CIR_FPE_BC14	X	-13.163	-13.386	-0.223
	Z	-74.648	-74.555	0.093
CIR_FPE_BC15	X	13.163	12.945	-0.218
	Z	-74.648	-74.662	-0.014
CIR_FPE_BC16	X	37.900	37.719	-0.181
	Z	-65.645	-65.758	-0.113
CIR_FPE_BC17	X	58.066	57.921	-0.145
	Z	-48.723	-48.868	-0.145
CIR_FPE_BC18	X	71.229	71.162	-0.067
	Z	-25.925	-26.128	-0.203

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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	8.483	-0.017	0.130	0.130	0.000	0.113
CIR_FPE_BC2	8.500	8.484	-0.016	0.130	0.130	0.000	0.114
CIR_FPE_BC3	8.500	8.495	-0.005	0.130	0.130	0.000	0.125
CIR_FPE_BC4	8.500	8.505	0.005	0.130	0.130	0.000	0.135
CIR_FPE_BC5	8.500	8.498	-0.002	0.130	0.130	0.000	0.128
CIR_FPE_BC6	8.500	8.519	0.019	0.130	0.130	0.000	0.149
CIR_FPE_BC7	8.500	8.491	-0.009	0.130	0.130	0.000	0.121
CIR_FPE_BC8	8.500	8.496	-0.004	0.130	0.130	0.000	0.126
CIR_FPE_BC9	8.500	8.505	0.005	0.130	0.130	0.000	0.135
CIR_FPE_BC10	8.500	8.514	0.014	0.130	0.130	0.000	0.144
CIR_FPE_BC11	8.500	8.499	-0.001	0.130	0.130	0.000	0.129
CIR_FPE_BC12	8.500	8.506	0.006	0.130	0.130	0.000	0.136
CIR_FPE_BC13	8.500	8.518	0.018	0.130	0.130	0.000	0.148
CIR_FPE_BC14	8.500	8.508	0.008	0.130	0.130	0.000	0.138
CIR_FPE_BC15	8.500	8.492	-0.008	0.130	0.130	0.000	0.122
CIR_FPE_BC16	8.500	8.497	-0.003	0.130	0.130	0.000	0.127
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	MEAS	BONUS
CIR_FPE_BC1	0.059	0.113
CIR_FPE_BC2	0.017	0.114
CIR_FPE_BC3	0.024	0.125
CIR_FPE_BC4	0.064	0.135
CIR_FPE_BC5	0.081	0.128
CIR_FPE_BC6	0.074	0.149
CIR_FPE_BC7	0.059	0.121
CIR_FPE_BC8	0.077	0.126
CIR_FPE_BC9	0.021	0.135
CIR_FPE_BC10	0.070	0.144
CIR_FPE_BC11	0.042	0.129
CIR_FPE_BC12	0.068	0.136
CIR_FPE_BC13	0.122	0.148
CIR_FPE_BC14	0.112	0.138
CIR_FPE_BC15	0.047	0.122
CIR_FPE_BC16	0.016	0.127
CIR_FPE_BC17	0.042	0.132
CIR_FPE_BC18	0.014	0.129

FCFLOC2 Datum Shift

Segment	Shift X	Shift Y	Shift Z	Rotation X	Rotation Y	Rotation Z
Segment 1	Fixed	Fixed	Fixed	Fixed	359.837	Fixed

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

Feature	AX	NOMINAL	MEAS	DEV
CIR_FPE_BC1	X	75.800	75.773	-0.027
	Z	0.000	-0.010	-0.010
CIR_FPE_BC2	X	71.229	71.221	-0.008
	Z	25.925	25.921	-0.004
CIR_FPE_BC3	X	58.066	58.073	0.007

	Z	48.723	48.713	-0.010
CIR_FPE_BC4	X	37.900	37.918	0.018
	Z	65.645	65.619	-0.026
CIR_FPE_BC5	X	13.163	13.177	0.014
	Z	74.648	74.610	-0.038
CIR_FPE_BC6	X	-13.163	-13.141	0.022
	Z	74.648	74.618	-0.030
CIR_FPE_BC7	X	-37.900	-37.893	0.007
	Z	65.645	65.616	-0.029
CIR_FPE_BC8	X	-58.066	-58.059	0.007
	Z	48.723	48.685	-0.038
CIR_FPE_BC9	X	-71.229	-71.221	0.008
	Z	25.925	25.918	-0.007
CIR_FPE_BC10	X	-75.800	-75.782	0.018
	Z	0.000	0.030	0.030
CIR_FPE_BC11	X	-71.229	-71.235	-0.006
	Z	-25.925	-25.905	0.020
CIR_FPE_BC12	X	-58.066	-58.071	-0.005
	Z	-48.723	-48.689	0.034
CIR_FPE_BC13	X	-37.900	-37.867	0.033
	Z	-65.645	-65.594	0.051
CIR_FPE_BC14	X	-13.163	-13.174	-0.011
	Z	-74.648	-74.593	0.055
CIR_FPE_BC15	X	13.163	13.158	-0.005
	Z	-74.648	-74.625	0.023
CIR_FPE_BC16	X	37.900	37.906	0.006
	Z	-65.645	-65.650	-0.005
CIR_FPE_BC17	X	58.066	58.060	-0.006
	Z	-48.723	-48.703	0.020
CIR_FPE_BC18	X	71.229	71.236	0.007
	Z	-25.925	-25.925	0.000

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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	0.088	0.088	0.200	0.200	0.000
Z	0.000	0.082	0.082	0.200	0.200	0.000
D	170.000	169.981	-0.019	0.200	0.200	0.000
RN	0.000	0.014	0.014	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	0.973	-0.027	0.200	0.200	0.000

	MM	LOC15 - PLN_MCE_BEAM_TUBE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	681.814	678.573	-3.241	1.500	1.500	1.741
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	678.568	-3.246	1.500	1.500	1.746
FL	0.000	0.043	0.043	0.250	0.000	0.000

⌖	MM	LOC17 - PLNC_MCE_BT_FLANGE_SS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	680.814	677.595	-3.219	1.500	1.500	1.719
FL	0.000	0.030	0.030	0.250	0.000	0.000

//	MM	PARL2 - PLNC_MCE_BT_FLANGE TO YMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.117	0.117	0.250	0	0.000

⌖	MM	LOC18 - CIRC_MCE_BC				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.097	0.097	0.200	0.200	0.000
Z	0.000	0.090	0.090	0.200	0.200	0.000
D	151.600	151.558	-0.042	0.200	0.200	0.000
RN	0.000	0.075	0.075	0.200	0.000	0.000

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BOLT CIRCLE POSITION TO FLANGE & CAVITY ROTATION

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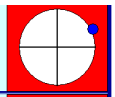
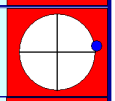
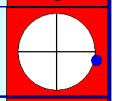
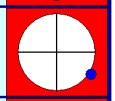
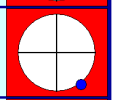
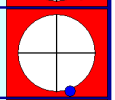
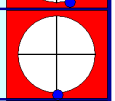
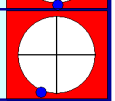
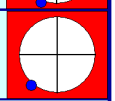
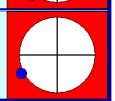
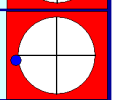
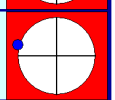
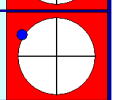
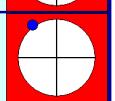
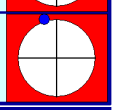
FCFLOC3 Size	MM	18XØ8.5 0.13/0.13					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_MCE_BC1	8.500	8.508	0.008	0.130	0.130	0.000	0.138
CIR_MCE_BC2	8.500	8.531	0.031	0.130	0.130	0.000	0.161
CIR_MCE_BC3	8.500	8.521	0.021	0.130	0.130	0.000	0.151
CIR_MCE_BC4	8.500	8.520	0.020	0.130	0.130	0.000	0.150
CIR_MCE_BC5	8.500	8.515	0.015	0.130	0.130	0.000	0.145
CIR_MCE_BC6	8.500	8.515	0.015	0.130	0.130	0.000	0.145
CIR_MCE_BC7	8.500	8.507	0.007	0.130	0.130	0.000	0.137
CIR_MCE_BC8	8.500	8.519	0.019	0.130	0.130	0.000	0.149
CIR_MCE_BC9	8.500	8.527	0.027	0.130	0.130	0.000	0.157
CIR_MCE_BC10	8.500	8.519	0.019	0.130	0.130	0.000	0.149
CIR_MCE_BC11	8.500	8.523	0.023	0.130	0.130	0.000	0.153
CIR_MCE_BC12	8.500	8.511	0.011	0.130	0.130	0.000	0.141
CIR_MCE_BC13	8.500	8.517	0.017	0.130	0.130	0.000	0.147
CIR_MCE_BC14	8.500	8.515	0.015	0.130	0.130	0.000	0.145
CIR_MCE_BC15	8.500	8.506	0.006	0.130	0.130	0.000	0.136
CIR_MCE_BC16	8.500	8.523	0.023	0.130	0.130	0.000	0.153
CIR_MCE_BC17	8.500	8.519	0.019	0.130	0.130	0.000	0.149
CIR_MCE_BC18	8.500	8.528	0.028	0.130	0.130	0.000	0.158

FCFLOC3 Position	MM	⌖ Ø.2 Ⓜ C B					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_MCE_BC1	0.000	1.348	1.348	0.200		1.011	0.138
CIR_MCE_BC2	0.000	1.348	1.348	0.200		0.986	0.161
CIR_MCE_BC3	0.000	1.276	1.276	0.200		0.925	0.151

CIR_MCE_BC4	1.253	0.150	
CIR_MCE_BC5	1.289	0.145	
CIR_MCE_BC6	1.284	0.145	
CIR_MCE_BC7	1.332	0.137	
CIR_MCE_BC8	1.280	0.149	
CIR_MCE_BC9	1.319	0.157	
CIR_MCE_BC10	1.240	0.149	
CIR_MCE_BC11	1.266	0.153	
CIR_MCE_BC12	1.228	0.141	
CIR_MCE_BC13	1.193	0.147	
CIR_MCE_BC14	1.232	0.145	
CIR_MCE_BC15	1.268	0.136	
CIR_MCE_BC16	1.326	0.153	
CIR_MCE_BC17	1.335	0.149	
CIR_MCE_BC18	1.353	0.158	

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	-75.800	-75.779	0.021
	Z	0.000	0.674	0.674
CIR_MCE_BC2	X	-71.229	-70.993	0.236
	Z	25.925	26.556	0.631
CIR_MCE_BC3	X	-58.066	-57.637	0.429
	Z	48.723	49.195	0.472
CIR_MCE_BC4	X	-37.900	-37.341	0.559
	Z	65.645	65.927	0.282
CIR_MCE_BC5	X	-13.163	-12.527	0.636
	Z	74.648	74.750	0.102
CIR_MCE_BC6	X	13.163	13.790	0.627
	Z	74.648	74.512	-0.136

CIR_MCE_BC7	X	37.900	38.461	0.561
	Z	65.645	65.286	-0.359
CIR_MCE_BC8	X	58.066	58.456	0.390
	Z	48.723	48.215	-0.508
CIR_MCE_BC9	X	71.229	71.447	0.218
	Z	25.925	25.303	-0.622
CIR_MCE_BC10	X	75.800	75.823	0.023
	Z	0.000	-0.620	-0.620
CIR_MCE_BC11	X	71.229	70.987	-0.242
	Z	-25.925	-26.510	-0.585
CIR_MCE_BC12	X	58.066	57.670	-0.396
	Z	-48.723	-49.192	-0.469
CIR_MCE_BC13	X	37.900	37.369	-0.531
	Z	-65.645	-65.917	-0.272
CIR_MCE_BC14	X	13.163	12.551	-0.612
	Z	-74.648	-74.719	-0.071
CIR_MCE_BC15	X	-13.163	-13.771	-0.608
	Z	-74.648	-74.470	0.178
CIR_MCE_BC16	X	-37.900	-38.463	-0.563
	Z	-65.645	-65.294	0.351
CIR_MCE_BC17	X	-58.066	-58.457	-0.391
	Z	-48.723	-48.183	0.540
CIR_MCE_BC18	X	-71.229	-71.434	-0.205
	Z	-25.925	-25.280	0.645

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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	8.508	0.008	0.130	0.130	0.000	0.138
CIR_MCE_BC2	8.500	8.531	0.031	0.130	0.130	0.000	0.161
CIR_MCE_BC3	8.500	8.521	0.021	0.130	0.130	0.000	0.151
CIR_MCE_BC4	8.500	8.520	0.020	0.130	0.130	0.000	0.150
CIR_MCE_BC5	8.500	8.515	0.015	0.130	0.130	0.000	0.145
CIR_MCE_BC6	8.500	8.515	0.015	0.130	0.130	0.000	0.145
CIR_MCE_BC7	8.500	8.507	0.007	0.130	0.130	0.000	0.137
CIR_MCE_BC8	8.500	8.519	0.019	0.130	0.130	0.000	0.149
CIR_MCE_BC9	8.500	8.527	0.027	0.130	0.130	0.000	0.157
CIR_MCE_BC10	8.500	8.519	0.019	0.130	0.130	0.000	0.149
CIR_MCE_BC11	8.500	8.523	0.023	0.130	0.130	0.000	0.153
CIR_MCE_BC12	8.500	8.511	0.011	0.130	0.130	0.000	0.141
CIR_MCE_BC13	8.500	8.517	0.017	0.130	0.130	0.000	0.147
CIR_MCE_BC14	8.500	8.515	0.015	0.130	0.130	0.000	0.145
CIR_MCE_BC15	8.500	8.506	0.006	0.130	0.130	0.000	0.136
CIR_MCE_BC16	8.500	8.523	0.023	0.130	0.130	0.000	0.153
CIR_MCE_BC17	8.500	8.519	0.019	0.130	0.130	0.000	0.149
CIR_MCE_BC18	8.500	8.528	0.028	0.130	0.130	0.000	0.158
FCFLOC4 Position	MM	⌖ Ø.2 Ⓜ C					

Feature	MEAS	BONUS
CIR_MCE_BC1	0.094	0.138
CIR_MCE_BC2	0.087	0.161
CIR_MCE_BC3	0.047	0.151
CIR_MCE_BC4	0.066	0.150
CIR_MCE_BC5	0.031	0.145
CIR_MCE_BC6	0.049	0.145
CIR_MCE_BC7	0.089	0.137
CIR_MCE_BC8	0.054	0.149
CIR_MCE_BC9	0.059	0.157
CIR_MCE_BC10	0.056	0.149
CIR_MCE_BC11	0.050	0.153
CIR_MCE_BC12	0.033	0.141
CIR_MCE_BC13	0.088	0.147
CIR_MCE_BC14	0.074	0.145
CIR_MCE_BC15	0.133	0.136
CIR_MCE_BC16	0.076	0.153
CIR_MCE_BC17	0.114	0.149
CIR_MCE_BC18	0.104	0.158

FCFLOC4 Datum Shift

Segment	Shift X	Shift Y	Shift Z	Rotation X	Rotation Y	Rotation Z
Segment 1	Fixed	Fixed	Fixed	Fixed	359.523	Fixed

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

Feature	AX	NOMINAL	MEAS	DEV
CIR_MCE_BC1	X	-75.800	-75.782	0.018
	Z	0.000	0.043	0.043
CIR_MCE_BC2	X	-71.229	-71.212	0.017
	Z	25.925	25.965	0.040
CIR_MCE_BC3	X	-58.066	-58.044	0.022

	Z	48.723	48.714	-0.009
CIR_MCE_BC4	X	-37.900	-37.888	0.012
	Z	65.645	65.614	-0.031
CIR_MCE_BC5	X	-13.163	-13.148	0.015
	Z	74.648	74.644	-0.004
CIR_MCE_BC6	X	13.163	13.170	0.007
	Z	74.648	74.624	-0.024
CIR_MCE_BC7	X	37.900	37.917	0.017
	Z	65.645	65.604	-0.041
CIR_MCE_BC8	X	58.066	58.053	-0.013
	Z	48.723	48.700	-0.023
CIR_MCE_BC9	X	71.229	71.234	0.005
	Z	25.925	25.896	-0.029
CIR_MCE_BC10	X	75.800	75.826	0.026
	Z	0.000	0.011	0.011
CIR_MCE_BC11	X	71.229	71.205	-0.024
	Z	-25.925	-25.919	0.006
CIR_MCE_BC12	X	58.066	58.077	0.011
	Z	-48.723	-48.711	0.012
CIR_MCE_BC13	X	37.900	37.916	0.016
	Z	-65.645	-65.604	0.041
CIR_MCE_BC14	X	13.163	13.172	0.009
	Z	-74.648	-74.612	0.036
CIR_MCE_BC15	X	-13.163	-13.151	0.012
	Z	-74.648	-74.582	0.066
CIR_MCE_BC16	X	-37.900	-37.918	-0.018
	Z	-65.645	-65.612	0.033
CIR_MCE_BC17	X	-58.066	-58.055	0.011
	Z	-48.723	-48.667	0.056
CIR_MCE_BC18	X	-71.229	-71.221	0.008
	Z	-25.925	-25.874	0.051

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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	0.317	0.317	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	589.687	-2.927	1.500	1.500	1.427
Z	0.000	-0.010	-0.010	0.200	0.200	0.000
D	140.000	139.998	-0.002	0.200	0.200	0.000
RN	0.000	0.010	0.010	0.200	0.000	0.000

↔	MM	DIST7 - PLN_MC TO PLNC_MC_SS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	1.000	1.009	0.009	0.200	0.200	0.000

⌖	MM	LOC7 - PLN_MC				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-150.000	-146.436	3.564	1.500	1.500	2.064
FL	0.000	0.032	0.032	0.250	0.000	0.000

⌖	MM	LOC8 - PLNC_MC_SS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-149.000	-145.427	3.573	1.500	1.500	2.073
FL	0.000	0.034	0.034	0.250	0.000	0.000

⌖	MM	LOC9 - PLN_MC_TUBE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-150.000	-146.390	3.610	1.500	1.500	2.110
FL	0.000	0.013	0.013	0.250	0.000	0.000

//	MM	PARL3 - PLN_MC TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	1.227	1.227	0.250	0	0.977

⌖	MM	LOC10 - CIRC_MC_BC				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	592.614	589.708	-2.906	1.500	1.500	1.406
Z	0.000	0.002	0.002	0.200	0.200	0.000
D	120.000	119.962	-0.038	0.200	0.200	0.000
RN	0.000	0.023	0.023	0.200	0.000	0.000

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BOLT CIRCLE POSITION TO FLANGE & CAVITY ROTATION

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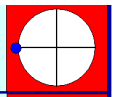
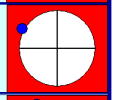
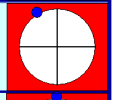
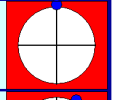
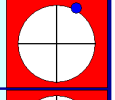
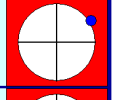
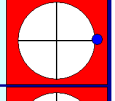
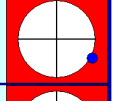
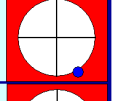
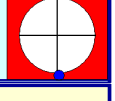
FCFLOC5 Size	MM	12XØ8.8 0.13/0.13					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_MC_BH_30	8.800	8.858	0.058	0.130	0.130	0.000	0.188
CIR_MC_BH_60	8.800	8.833	0.033	0.130	0.130	0.000	0.163
CIR_MC_BH_...	8.800	8.845	0.045	0.130	0.130	0.000	0.175
CIR_MC_BH_...	8.800	8.872	0.072	0.130	0.130	0.000	0.202
CIR_MC_BH_...	8.800	8.863	0.063	0.130	0.130	0.000	0.193
CIR_MC_BH_...	8.800	8.872	0.072	0.130	0.130	0.000	0.202
CIR_MC_BH_...	8.800	8.886	0.086	0.130	0.130	0.000	0.216
CIR_MC_BH_...	8.800	8.834	0.034	0.130	0.130	0.000	0.164
CIR_MC_BH_...	8.800	8.822	0.022	0.130	0.130	0.000	0.152
CIR_MC_BH_...	8.800	8.829	0.029	0.130	0.130	0.000	0.159
CIR_MC_BH_...	8.800	8.834	0.034	0.130	0.130	0.000	0.164
CIR_MC_BH_...	8.800	8.844	0.044	0.130	0.130	0.000	0.174

FCFLOC5 Position	MM	⌖ Ø0.2 Ⓜ D B					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_MC_BH_30	0.000	2.720	2.720	0.200		2.332	0.188
CIR_MC_BH_60	0.000	2.673	2.673	0.200		2.309	0.163

CIR_MC_BH_090	2.627	0.175	
CIR_MC_BH_120	2.670	0.202	
CIR_MC_BH_150	2.728	0.193	
CIR_MC_BH_180	2.752	0.202	
CIR_MC_BH_210	2.800	0.216	
CIR_MC_BH_240	2.733	0.164	
CIR_MC_BH_270	2.769	0.152	
CIR_MC_BH_300	2.764	0.159	
CIR_MC_BH_330	2.714	0.164	
CIR_MC_BH_360	2.731	0.174	

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	-51.962	-52.607	-0.645
	Z	30.000	28.803	-1.197
CIR_MC_BH_60	Y	-30.000	-31.133	-1.133
	Z	51.962	51.253	-0.709
CIR_MC_BH_090	Y	0.000	-1.314	-1.313
	Z	60.000	59.975	-0.025
CIR_MC_BH_120	Y	30.000	28.834	-1.165
	Z	51.962	52.613	0.652
CIR_MC_BH_150	Y	51.961	51.278	-0.684
	Z	30.000	31.180	1.180
CIR_MC_BH_180	Y	60.000	59.997	-0.002
	Z	0.000	1.376	1.376
CIR_MC_BH_210	Y	51.961	52.637	0.676
	Z	-30.000	-28.774	1.226
CIR_MC_BH_240	Y	30.000	31.162	1.162
	Z	-51.962	-51.242	0.719
CIR_MC_BH_270	Y	0.000	1.383	1.384
	Z	-60.000	-59.950	0.050
CIR_MC_BH_300	Y	-30.000	-28.779	1.221
	Z	-51.962	-52.609	-0.648
CIR_MC_BH_330	Y	-51.962	-51.237	0.725
	Z	-30.000	-31.147	-1.147

CIR_MC_BH_360	Y	-60.000	-59.945	0.055
	Z	0.000	-1.364	-1.364

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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	8.858	0.058	0.130	0.130	0.000	0.188
CIR_MC_BH_60	8.800	8.833	0.033	0.130	0.130	0.000	0.163
CIR_MC_BH_...	8.800	8.845	0.045	0.130	0.130	0.000	0.175
CIR_MC_BH_...	8.800	8.872	0.072	0.130	0.130	0.000	0.202
CIR_MC_BH_...	8.800	8.863	0.063	0.130	0.130	0.000	0.193
CIR_MC_BH_...	8.800	8.872	0.072	0.130	0.130	0.000	0.202
CIR_MC_BH_...	8.800	8.886	0.086	0.130	0.130	0.000	0.216
CIR_MC_BH_...	8.800	8.834	0.034	0.130	0.130	0.000	0.164
CIR_MC_BH_...	8.800	8.822	0.022	0.130	0.130	0.000	0.152
CIR_MC_BH_...	8.800	8.829	0.029	0.130	0.130	0.000	0.159
CIR_MC_BH_...	8.800	8.834	0.034	0.130	0.130	0.000	0.164
CIR_MC_BH_...	8.800	8.844	0.044	0.130	0.130	0.000	0.174

FCFLOC6 Position	MM	⌖ Ø0.2 Ⓜ D					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_MC_BH_30	0.000	0.049	0.049	0.200		0.000	0.188
CIR_MC_BH_60	0.000	0.086	0.086	0.200		0.000	0.163
CIR_MC_BH_090	0.000	0.103	0.103	0.200		0.000	0.175
CIR_MC_BH_120	0.000	0.059	0.059	0.200		0.000	0.202
CIR_MC_BH_150	0.000	0.027	0.027	0.200		0.000	0.193
CIR_MC_BH_180	0.000	0.035	0.035	0.200		0.000	0.202
CIR_MC_BH_210	0.000	0.075	0.075	0.200		0.000	0.216
CIR_MC_BH_240	0.000	0.053	0.053	0.200		0.000	0.164
CIR_MC_BH_270	0.000	0.080	0.080	0.200		0.000	0.152
CIR_MC_BH_300	0.000	0.076	0.076	0.200		0.000	0.159
CIR_MC_BH_330	0.000	0.080	0.080	0.200		0.000	0.164
CIR_MC_BH_360	0.000	0.080	0.080	0.200		0.000	0.174

FCFLOC6 Datum Shift						
Segment	Shift X	Shift Y	Shift Z	Rotation X	Rotation Y	Rotation Z
Segment 1	Fixed	Fixed	Fixed	358.697	Fixed	Fixed

FCFLOC6 Summary FIT TO DATUMS=ON, DEV PERPEN CENTERLINE=ON				
Feature	AX	NOMINAL	MEAS	DEV
CIR_MC_BH_30	Y	-51.962	-51.939	0.023
	Z	30.000	29.992	-0.008
CIR_MC_BH_60	Y	-30.000	-29.960	0.041
	Z	51.962	51.947	-0.014
CIR_MC_BH_090	Y	0.000	0.050	0.051
	Z	60.000	59.989	-0.011
CIR_MC_BH_120	Y	30.000	30.023	0.024
	Z	51.962	51.944	-0.017
CIR_MC_BH_150	Y	51.961	51.973	0.012
	Z	30.000	30.006	0.006
CIR_MC_BH_180	Y	60.000	60.013	0.013
	Z	0.000	0.012	0.012
CIR_MC_BH_210	Y	51.961	51.969	0.008
	Z	-30.000	-29.963	0.037
CIR_MC_BH_240	Y	30.000	29.988	-0.011
	Z	-51.962	-51.938	0.024
CIR_MC_BH_270	Y	0.000	0.020	0.020
	Z	-60.000	-59.965	0.035
CIR_MC_BH_300	Y	-30.000	-29.968	0.032
	Z	-51.962	-51.941	0.020
CIR_MC_BH_330	Y	-51.962	-51.932	0.030
	Z	-30.000	-29.974	0.026
CIR_MC_BH_360	Y	-60.000	-59.961	0.040
	Z	0.000	-0.001	-0.001

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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	-583.701	3.112	1.500	1.500	1.612	
Z	0.000	-0.061	-0.061	0.200	0.200	0.000	
D	33.800	33.772	-0.028	0.200	0.200	0.000	
RN	0.000	0.051	0.051	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	0.535	0.035	0.050	0.000	0.000	
⌖	MM	LOC12 - PLN_FP					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	80.000	78.846	-1.154	1.500	1.500	0.000	
FL	0.000	0.002	0.002	0.250	0.000	0.000	
⌖	MM	LOC13 - PLN_FP_SS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	79.500	78.311	-1.189	1.500	1.500	0.000	
FL	0.000	0.011	0.011	0.250	0.000	0.000	

⌖	MM	LOC19 - PLN_FP_TUBE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	80.000	78.831	-1.169	1.500	1.500	0.000
FL	0.000	0.009	0.009	0.250	0.000	0.000

//	MM	PARL4 - PLN_FP TO XPLUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.161	0.161	0.250	0	0.000

⌖	MM	LOC36 - CIRC_FP_BC				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	-586.814	-583.718	3.095	1.500	1.500	1.595
Z	0.000	-0.070	-0.070	0.200	0.200	0.000
D	27.000	26.897	-0.103	0.200	0.200	0.000
RN	0.000	0.042	0.042	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	4.573	0.073	0.050	0.050	0.023	0.000
CIR_FP_BC2	4.500	4.550	0.050	0.050	0.050	0.000	0.000
CIR_FP_BC3	4.500	4.553	0.053	0.050	0.050	0.003	0.000
CIR_FP_BC4	4.500	4.548	0.048	0.050	0.050	0.000	0.000
CIR_FP_BC5	4.500	4.559	0.059	0.050	0.050	0.009	0.000
CIR_FP_BC6	4.500	4.579	0.079	0.050	0.050	0.029	0.000

FCFLOC7 Position	MM	⌖ Ø0.2 E B					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_FP_BC1	0.000	1.332	1.332	0.200		1.132	0.000
CIR_FP_BC2	0.000	1.434	1.434	0.200		1.234	0.000
CIR_FP_BC3	0.000	1.562	1.562	0.200		1.362	0.000
CIR_FP_BC4	0.000	1.398	1.398	0.200		1.198	0.000
CIR_FP_BC5	0.000	1.366	1.366	0.200		1.166	0.000
CIR_FP_BC6	0.000	1.443	1.443	0.200		1.243	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	-0.659	-0.659
	Z	13.500	13.405	-0.095
CIR_FP_BC2	Y	-11.691	-11.995	-0.303
	Z	6.750	6.100	-0.650
CIR_FP_BC3	Y	-11.691	-11.273	0.419
	Z	-6.750	-7.409	-0.659
CIR_FP_BC4	Y	0.000	0.694	0.694
	Z	-13.500	-13.419	0.081
CIR_FP_BC5	Y	11.691	11.961	0.269
	Z	-6.750	-6.123	0.627
CIR_FP_BC6	Y	11.691	11.272	-0.419
	Z	6.750	7.337	0.587

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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	4.573	0.073	0.050	0.050	0.023	0.000
CIR_FP_BC2	4.500	4.550	0.050	0.050	0.050	0.000	0.000
CIR_FP_BC3	4.500	4.553	0.053	0.050	0.050	0.003	0.000
CIR_FP_BC4	4.500	4.548	0.048	0.050	0.050	0.000	0.000
CIR_FP_BC5	4.500	4.559	0.059	0.050	0.050	0.009	0.000
CIR_FP_BC6	4.500	4.579	0.079	0.050	0.050	0.029	0.000

FCFLOC8 Position	MM	⌖ Ø0.2 E					
Feature	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
CIR_FP_BC1	0.000	0.171	0.171	0.200		0.000	0.000
CIR_FP_BC2	0.000	0.096	0.096	0.200		0.000	0.000
CIR_FP_BC3	0.000	0.171	0.171	0.200		0.000	0.000
CIR_FP_BC4	0.000	0.127	0.127	0.200		0.000	0.000
CIR_FP_BC5	0.000	0.130	0.130	0.200		0.000	0.000
CIR_FP_BC6	0.000	0.112	0.112	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	357.043	Fixed	Fixed

FCFLOC8 Summary FIT TO DATUMS=ON, DEV PERPEN CENTERLINE=ON				
Feature	AX	NOMINAL	MEAS	DEV
CIR_FP_BC1	Y	0.000	0.033	0.033
	Z	13.500	13.421	-0.079
CIR_FP_BC2	Y	-11.691	-11.664	0.027
	Z	6.750	6.711	-0.039
CIR_FP_BC3	Y	-11.691	-11.640	0.052
	Z	-6.750	-6.818	-0.068
CIR_FP_BC4	Y	0.000	0.001	0.001
	Z	-13.500	-13.436	0.064
CIR_FP_BC5	Y	11.691	11.629	-0.062
	Z	-6.750	-6.731	0.019
CIR_FP_BC6	Y	11.691	11.635	-0.056
	Z	6.750	6.746	-0.004

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TRANSITION RINGS
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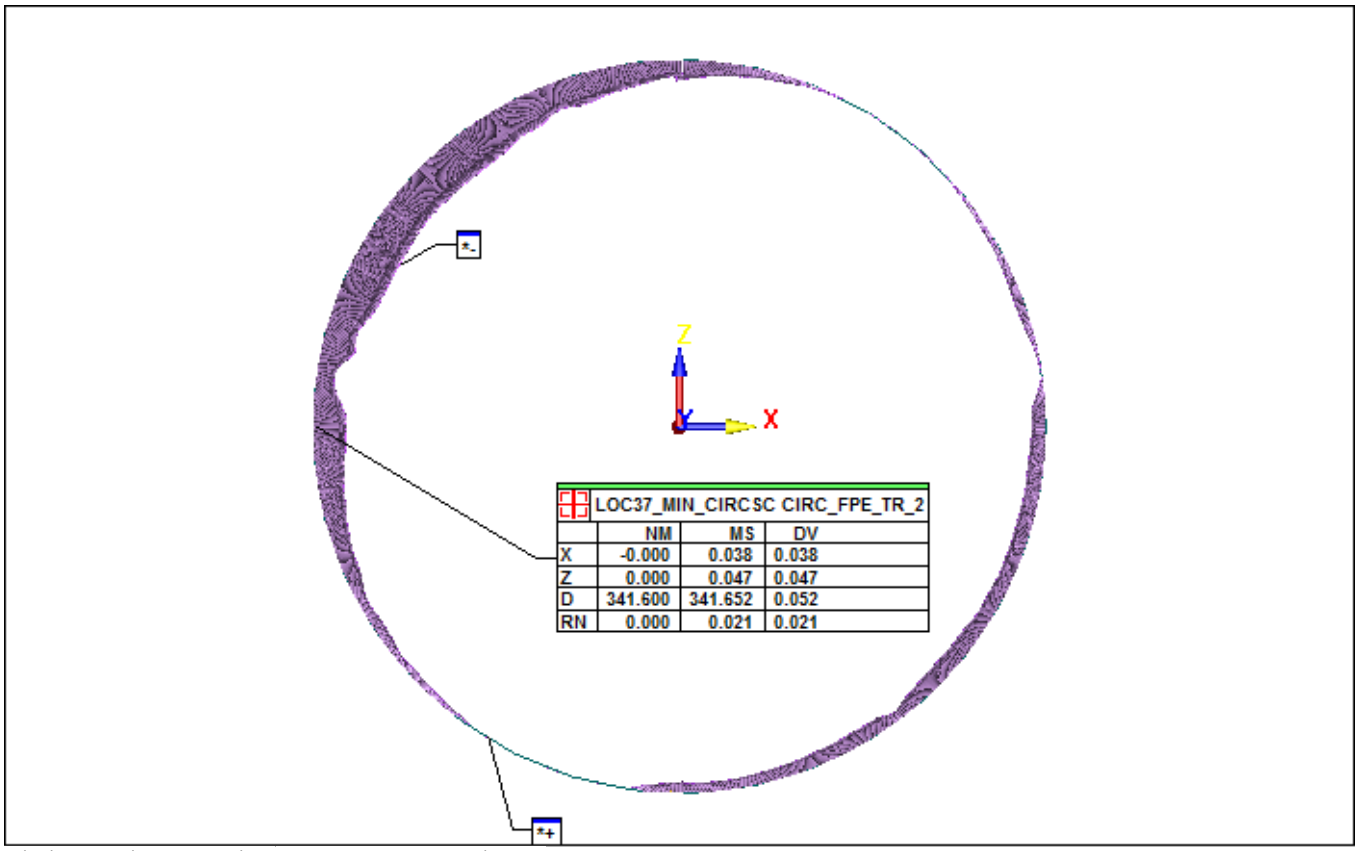
⌖	MM	LOC20 - CIR_FPE_TR				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.042	0.042	0.200	0.200	0.000
Y	-507.877	-507.877	0.000	1.500	1.500	0.000
Z	0.000	0.044	0.044	0.200	0.200	0.000
D	341.600	341.628	0.028	0.200	0.200	0.000
RN	0.000	0.018	0.018	0.200	0.000	0.000

⌖	MM	LOC21 - CIR_MCE_TR				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.050	0.050	0.200	0.200	0.000
Y	507.877	507.877	0.000	1.500	1.500	0.000
Z	0.000	0.042	0.042	0.200	0.200	0.000
D	341.600	341.631	0.031	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	0.038	0.038	0.200	0.200	0.000
Z	0.000	0.047	0.047	0.200	0.200	0.000
D	341.600	341.652	0.052	0.200	0.200	0.000
RN	0.000	0.021	0.021	0.051	0.000	0.000

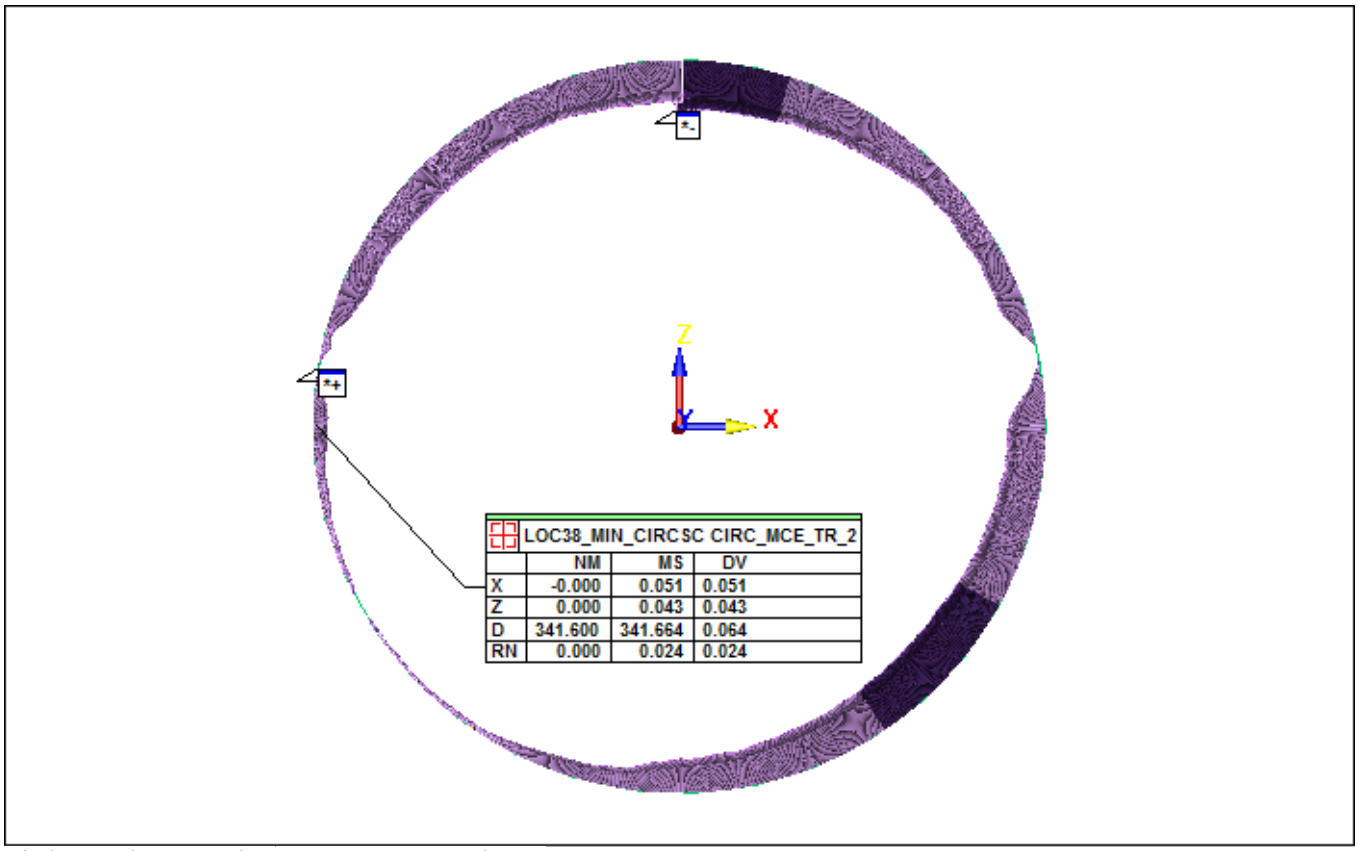
○	MM	CIRTY15 - CIRC_FPE_TR_2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.021	0.021	0.200	0.000	0.000



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	0.051	0.051	0.200	0.200	0.000
Z	0.000	0.043	0.043	0.200	0.200	0.000
D	341.600	341.664	0.064	0.200	0.200	0.000
RN	0.000	0.024	0.024	0.051	0.000	0.000

	MM	CIRTY16 - CIRC_MCE_TR_2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.024	0.024	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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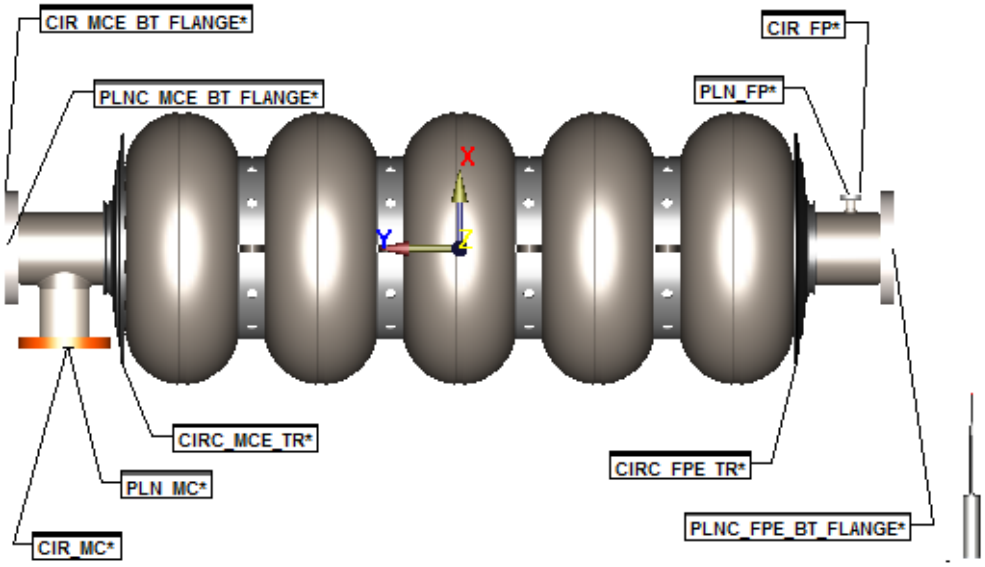
⊞	MM	LOC24 - PLNC_FPE_BT_FLANGE		
AX		MEAS		
AX		I	J	K
V		-0.00043	-1.00000	-0.00034
⊞	MM	LOC25 - PLNC_FPE_BT_FLANGE_SS		
AX		MEAS		
AX		I	J	K
V		-0.00040	-1.00000	-0.00028
⊞	MM	LOC26 - PLN_FP		
AX		MEAS		
AX		I	J	K
V		0.99998	-0.00379	-0.00468
⊞	MM	LOC27 - PLN_FP_SS		
AX		MEAS		
AX		I	J	K
V		0.99998	-0.00423	-0.00413
⊞	MM	LOC28 - PLNC_MCE_BT_FLANGE		
AX		MEAS		
AX		I	J	K
V		0.00030	1.00000	0.00048
⊞	MM	LOC29 - PLNC_MCE_BT_FLANGE_SS		
AX		MEAS		

AX	I	J	K
V	0.00023	1.00000	0.00047
⊕	MM	LOC30 - PLN_MC	
AX	MEAS		
AX	I	J	K
V	-0.99996	0.00804	0.00438
⊕	MM	LOC31 - PLNC_MC_SS	
AX	MEAS		
AX	I	J	K
V	-0.99996	0.00807	0.00447
⊕	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	0.00295	0.00000	1.00000
⊕	MM	LOC34 - LINC_MCE_BC	
AX	MEAS		
AX	I	J	K
V	0.00848	0.00000	0.99996
⊕	MM	LOC35 - LINC_MC_BC	
AX	MEAS		
AX	I	J	K
V	0.00000	-0.00023	1.00000
⊕	MM	LOC37 - LINC_FP_BC	
AX	MEAS		
AX	I	J	K
V	0.00000	-0.00016	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*