pc-dmis	PART NAME : PN440004-n-Trans-Rings-000-TB9XXX000-v3-IR		January 12, 2010	08:22
	REV NUMBER :	SER NUMBER :	STATS COUNT :	1

440004-n
FNAL 1.3GHZ TESLA
RF CAVITY
ASSEMBLY
measurement of Transition Rings
@ 000 rotational orientation

'Inspected by ' : Robert Riley
'Cavity Number' : TB9ACC008
' ' : 0912161536

Datum Discs

⌖	MM	LOC1 - CIRC_DATUM_DISC_MC				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.000	0.000	0.000	0.000	0.000
Y	25.000	25.004	0.004	10.000	10.000	0.000
Z	0.000	0.000	0.000	0.000	0.000	0.000
D	111.000	110.937	-0.063	0.050	0.050	0.013
RN	0.000	0.016	0.016	0.050	0.000	0.000

⌖	MM	LOC2 - CIRC_DATUM_DISC_FP				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.000	0.000	0.000	0.000	0.000
Y	-1032.384	-1034.479	-2.095	10.000	10.000	0.000
Z	0.000	0.000	0.000	0.000	0.000	0.000
D	111.000	110.911	-0.089	0.050	0.050	0.039
RN	0.000	0.022	0.022	0.050	0.000	0.000

Datum Disc planes

⌖	MM	LOC3 - PLNC_DD_MC				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	27.000	27.286	0.286	10.000	10.000	0.000
FL	0.000	0.074	0.074	0.100	0.000	0.000

⌖	MM	LOC4 - PLNC_DD_FP				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	-1034.384	-1036.770	-2.385	10.000	10.000	0.000
FL	0.000	0.034	0.034	0.100	0.000	0.000

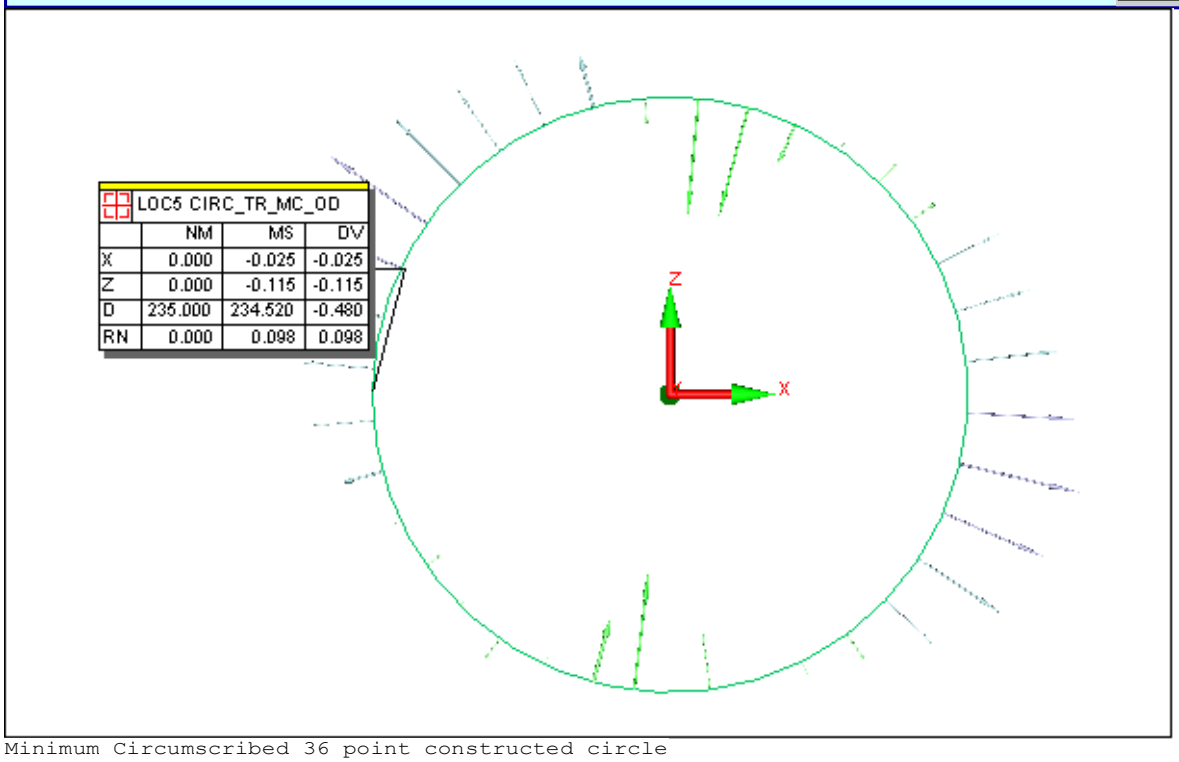
Distance between Datum Disc planes

↔	MM	DIST1 - PLNC_DD_FP TO PLNC_DD_MC (YAXIS)				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	1061.060	1064.056	2.996	0.200	0.200	2.796

Minimum Circumscribed 36 point constructed circle
Transition Ring Main Coupler end
235.0 O.D.

⌖	MM	LOC5 - CIRC_TR_MC_OD				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.025	-0.025	0.250	0.250	0.000
Z	0.000	-0.115	-0.115	0.250	0.250	0.000
D	235.000	234.520	-0.480	0.250	0.250	0.230
RN	0.000	0.098	0.098	0.250	0.000	0.000

○	MM	RND1 - CIRC_TR_MC_OD				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.098	0.098	0.250	0.000	0.000

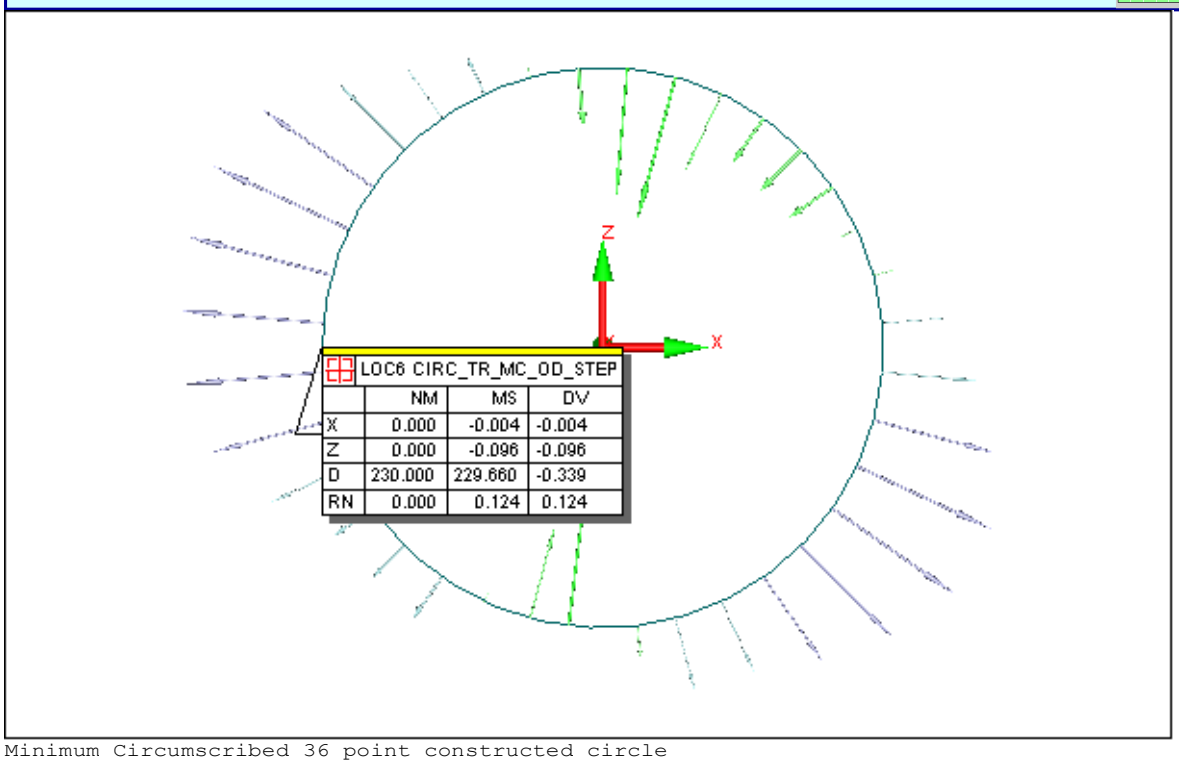


Minimum Circumscribed 36 point constructed circle
Transition Ring Main Coupler end
235.0 O.D. x1000

Minimum Circumscribed 36 point constructed circle
Transition Ring Main Coupler end
233.00 O.D. step

⌗	MM	LOC6 - CIRC_TR_MC_OD_STEP				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.004	-0.004	0.250	0.250	0.000
Z	0.000	-0.096	-0.096	0.250	0.250	0.000
D	230.000	229.660	-0.339	0.000	0.250	0.089
RN	0.000	0.124	0.124	0.250	0.000	0.000

○	MM	RND2 - CIRC_TR_MC_OD_STEP				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.124	0.124	0.250	0.000	0.000

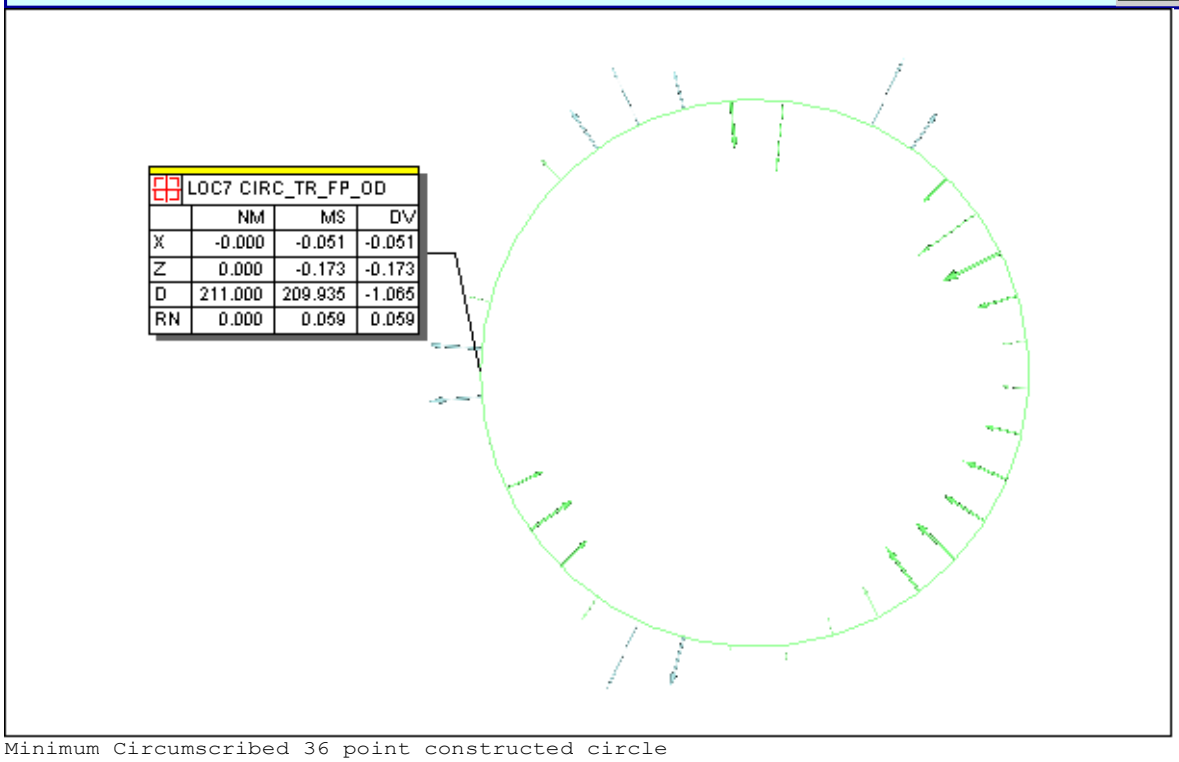


Minimum Circumscribed 36 point constructed circle
Transition Ring Main Coupler end
233.00 O.D. step x1000

Minimum Circumscribed 36 point constructed circle
Transition Ring Field Probe end
211.0 O.D.

	MM	LOC7 - CIRC_TR_FP_OD				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.051	-0.051	0.250	0.250	0.000
Z	0.000	-0.173	-0.173	0.250	0.250	0.000
D	211.000	209.935	-1.065	0.250	0.250	0.815
RN	0.000	0.059	0.059	0.250	0.000	0.000

	MM	RND3 - CIRC_TR_FP_OD				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.059	0.059	0.250	0.000	0.000

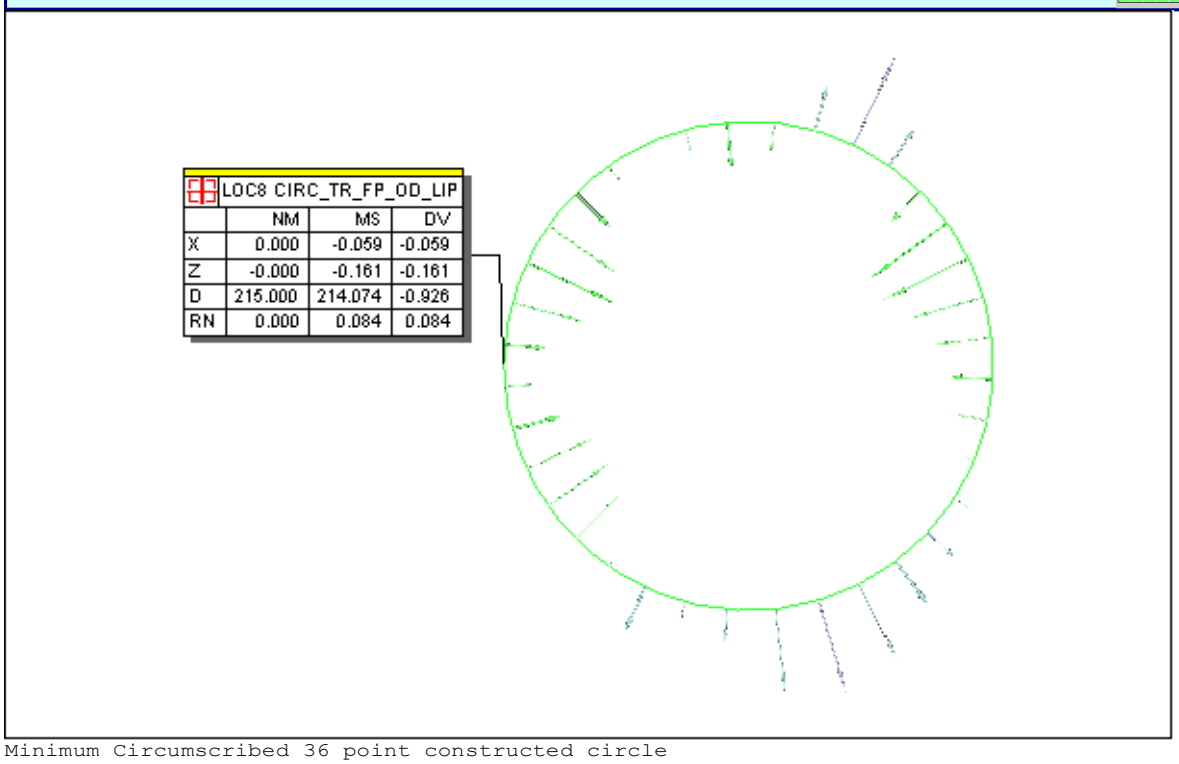


Minimum Circumscribed 36 point constructed circle
Transition Ring Field Probe end
211.0 O.D. x1000

Minimum Circumscribed 36 point constructed circle
Transition Ring Field Probe end
215.0 O.D. lip

⌗	MM	LOC8 - CIRC_TR_FP_OD_LIP				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.059	-0.059	0.250	0.250	0.000
Z	0.000	-0.161	-0.161	0.250	0.250	0.000
D	215.000	214.074	-0.926	0.250	0.250	0.676
RN	0.000	0.084	0.084	0.250	0.000	0.000

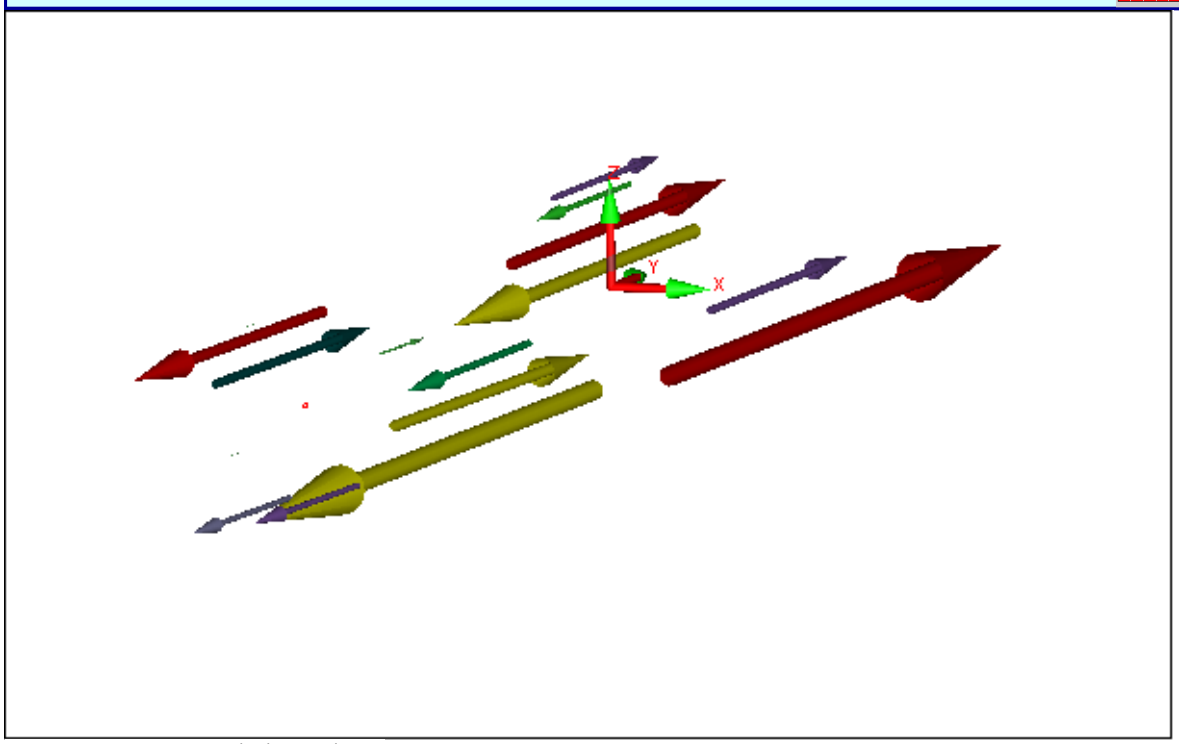
○	MM	RND4 - CIRC_TR_FP_OD_LIP				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.084	0.084	0.250	0.000	0.000



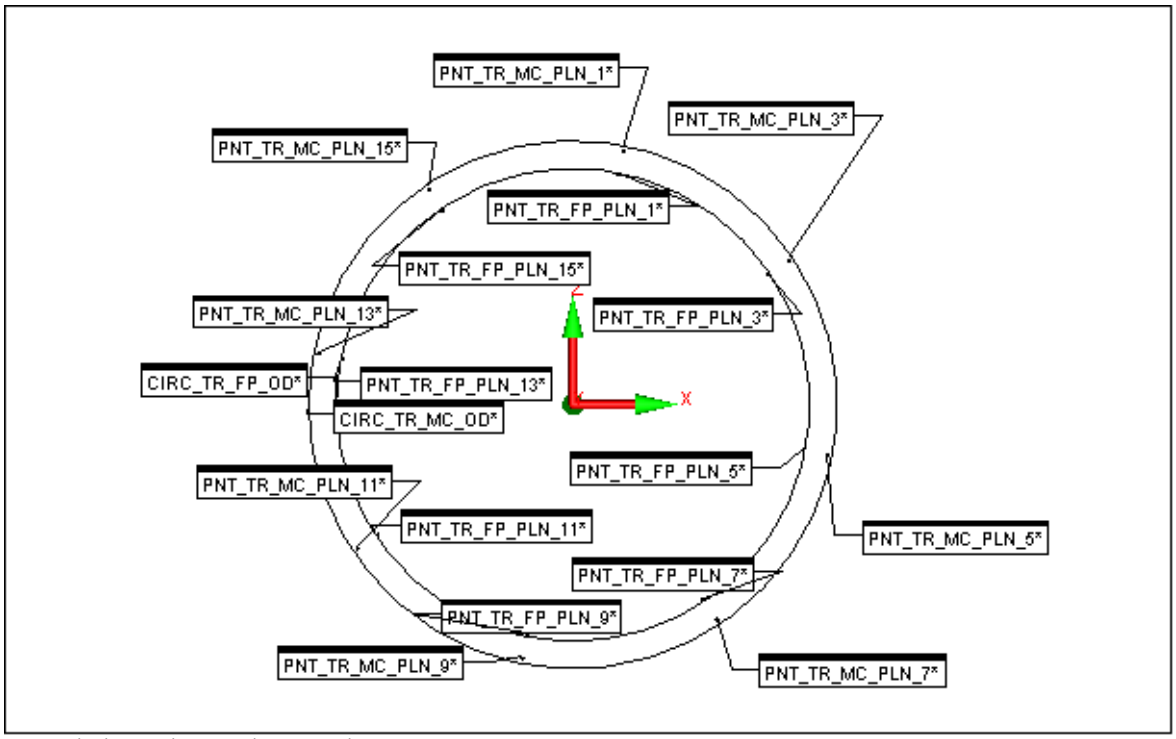
Minimum Circumscribed 36 point constructed circle
Transition Ring Field Probe end
215.0 O.D. lip x1000

Transition Ring planes

⊕	MM	LOC9 - PLNC_TR_MC					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	0.000	0.000	0.000	0.000	0.000	0.000	
FL	0.000	0.443	0.443	0.200	0.000	0.243	
⊕	MM	LOC10 - PLNC_TR_FP					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	-1007.500	-1011.532	-4.032	10.000	10.000	0.000	
FL	0.000	0.254	0.254	0.200	0.000	0.054	
▱	MM	FLAT3 - PLNC_TR_MC					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.443	0.443	0.250	0.000	0.193	
▱	MM	FLAT4 - PLNC_TR_FP					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.254	0.254	0.250	0.000	0.004	



Flatness of Transition Rings
x5000



Transition Ring points Main Coupler end

⊕	MM	LOC11 - PNT_TR_MC_PLN_1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	0.000	-0.505	-0.505	1.000	1.000	0.000
PR	115.000	115.024	0.024	1.000	1.000	0.000
PA	101.250	101.260	0.010	1.000	1.000	0.000

⊕	MM	LOC12 - PNT_TR_MC_PLN_3				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	0.000	-0.488	-0.488	1.000	1.000	0.000
PR	115.000	115.013	0.013	1.000	1.000	0.000
PA	146.250	146.253	0.003	1.000	1.000	0.000

⊕	MM	LOC13 - PNT_TR_MC_PLN_5				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	0.000	0.069	0.069	1.000	1.000	0.000
PR	115.000	114.999	-0.001	1.000	1.000	0.000
PA	-168.750	-168.746	0.004	1.000	1.000	0.000

⊕	MM	LOC14 - PNT_TR_MC_PLN_7				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	0.000	0.518	0.519	1.000	1.000	0.000
PR	115.000	114.978	-0.022	1.000	1.000	0.000
PA	-123.750	-123.745	0.005	1.000	1.000	0.000

⊕	MM	LOC15 - PNT_TR_MC_PLN_9				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	0.000	0.221	0.221	1.000	1.000	0.000
PR	115.000	114.986	-0.014	1.000	1.000	0.000
PA	-78.750	-78.738	0.012	1.000	1.000	0.000

⌖	MM	LOC16 - PNT_TR_MC_PLN_11				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	0.000	0.248	0.248	1.000	1.000	0.000
PR	115.000	114.985	-0.015	1.000	1.000	0.000
PA	-33.750	-33.729	0.021	1.000	1.000	0.000

⌖	MM	LOC17 - PNT_TR_MC_PLN_13				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	0.000	0.163	0.163	1.000	1.000	0.000
PR	115.000	115.005	0.005	1.000	1.000	0.000
PA	11.250	11.271	0.021	1.000	1.000	0.000

⌖	MM	LOC18 - PNT_TR_MC_PLN_15				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	0.000	-0.227	-0.227	1.000	1.000	0.000
PR	115.000	115.020	0.020	1.000	1.000	0.000
PA	56.250	56.267	0.017	1.000	1.000	0.000

Transition Ring points Field Probe end

⌖	MM	LOC19 - PNT_TR_FP_PLN_1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	-1007.500	-1011.019	-3.519	1.000	1.000	2.519
PR	104.000	104.024	0.024	1.000	1.000	0.000
PA	101.250	101.252	0.002	1.000	1.000	0.000

⌖	MM	LOC20 - PNT_TR_FP_PLN_3				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	-1007.500	-1011.055	-3.555	1.000	1.000	2.555
PR	104.000	104.002	0.002	1.000	1.000	0.000
PA	146.250	146.250	0.000	1.000	1.000	0.000

⌖	MM	LOC21 - PNT_TR_FP_PLN_5				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	-1007.500	-1011.406	-3.906	1.000	1.000	2.906
PR	104.000	103.988	-0.012	1.000	1.000	0.000
PA	-168.750	-168.747	0.003	1.000	1.000	0.000

⌖	MM	LOC22 - PNT_TR_FP_PLN_7				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	-1007.500	-1012.053	-4.553	1.000	1.000	3.553
PR	104.000	103.980	-0.020	1.000	1.000	0.000
PA	-123.750	-123.738	0.013	1.000	1.000	0.000

⌖	MM	LOC23 - PNT_TR_FP_PLN_9				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	-1007.500	-1012.234	-4.734	1.000	1.000	3.734
PR	104.000	104.150	0.150	1.000	1.000	0.000
PA	-78.750	-78.715	0.035	1.000	1.000	0.000

⌖	MM	LOC24 - PNT_TR_FP_PLN_11					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	-1007.500	-1011.974	-4.474	1.000	1.000	3.474	
PR	104.000	104.149	0.150	1.000	1.000	0.000	
PA	-33.750	-33.781	-0.031	1.000	1.000	0.000	
⌖	MM	LOC25 - PNT_TR_FP_PLN_13					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	-1007.500	-1011.425	-3.925	1.000	1.000	2.925	
PR	104.000	104.050	0.050	1.000	1.000	0.000	
PA	11.250	11.175	-0.075	1.000	1.000	0.000	
⌖	MM	LOC26 - PNT_TR_FP_PLN_15					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	-1007.500	-1011.086	-3.586	1.000	1.000	2.586	
PR	104.000	103.922	-0.077	1.000	1.000	0.000	
PA	56.250	56.185	-0.065	1.000	1.000	0.000	

Distances between matching points on Transition Rings

↔	MM	DIST_PA_11.25 - PNT_TR_MC_PLN_13 TO PNT_TR_FP_PLN_13 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1007.500	1011.588	4.088	1.000	1.000	3.088	
↔	MM	DIST_PA_56.25 - PNT_TR_MC_PLN_15 TO PNT_TR_FP_PLN_15 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1007.500	1010.860	3.360	1.000	1.000	2.360	
↔	MM	DIST_PA_101.25 - PNT_TR_MC_PLN_1 TO PNT_TR_FP_PLN_1 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1007.500	1010.514	3.014	1.000	1.000	2.014	
↔	MM	DIST_PA_146.25 - PNT_TR_MC_PLN_3 TO PNT_TR_FP_PLN_3 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1007.500	1010.567	3.067	1.000	1.000	2.067	
↔	MM	DIST_PA_-168.75 - PNT_TR_MC_PLN_5 TO PNT_TR_FP_PLN_5 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1007.500	1011.475	3.975	1.000	1.000	2.975	
↔	MM	DIST_PA_-123.75 - PNT_TR_MC_PLN_7 TO PNT_TR_FP_PLN_7 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1007.500	1012.571	5.071	1.000	1.000	4.071	
↔	MM	DIST_PA_-78.75 - PNT_TR_MC_PLN_9 TO PNT_TR_FP_PLN_9 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1007.500	1012.455	4.955	1.000	1.000	3.955	
↔	MM	DIST_PA_-33.75 - PNT_TR_MC_PLN_11 TO PNT_TR_FP_PLN_11 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1007.500	1012.223	4.723	1.000	1.000	3.723	

↔	MM	DIST_BETWEEN_PLANES - PLNC_TR_MC TO PLNC_TR_FP (YAXIS)				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	1007.500	1011.532	4.032	1.000	1.000	3.032

LOCATIONS OF CONSTRUCTED CIRCLES
ON 18 HALF CELLS

⊕	MM	LOC_CC3 - CIRC_CAV_1_1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.162	-0.162	0.200	0.200	0.000
Y	0.000	-971.785	-971.785	2000.000	2000.000	0.000
Z	0.000	-0.388	-0.388	0.200	0.200	0.188
D	210.300	210.531	0.231	0.200	0.200	0.031
RN	0.000	0.204	0.204	0.200	0.000	0.004

⊕	MM	LOC_CC4 - CIRC_CAV_1_2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.216	-0.216	0.200	0.200	0.016
Y	0.000	-962.383	-962.383	2000.000	2000.000	0.000
Z	0.000	-0.429	-0.429	0.200	0.200	0.229
D	210.300	210.424	0.124	0.200	0.200	0.000
RN	0.000	0.274	0.274	0.200	0.000	0.074

⊕	MM	LOC_CC5 - CIRC_CAV_2_1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.245	-0.245	0.200	0.200	0.045
Y	0.000	-856.413	-856.413	2000.000	2000.000	0.000
Z	0.000	-0.372	-0.372	0.200	0.200	0.172
D	210.300	213.835	3.535	0.200	0.200	3.335
RN	0.000	0.452	0.452	0.200	0.000	0.252

⊕	MM	LOC_CC6 - CIRC_CAV_2_2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.228	-0.228	0.200	0.200	0.028
Y	0.000	-847.248	-847.248	2000.000	2000.000	0.000
Z	0.000	-0.218	-0.218	0.200	0.200	0.018
D	210.300	214.032	3.732	0.200	0.200	3.532
RN	0.000	0.484	0.484	0.200	0.000	0.284

⊕	MM	LOC_CC7 - CIRC_CAV_3_1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.011	0.011	0.200	0.200	0.000
Y	0.000	-740.758	-740.758	2000.000	2000.000	0.000
Z	0.000	-0.802	-0.802	0.200	0.200	0.602
D	210.300	210.747	0.447	0.200	0.200	0.247
RN	0.000	0.118	0.118	0.200	0.000	0.000

⌖	MM	LOC_CC8 - CIRC_CAV_3_2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.039	0.039	0.200	0.200	0.000
Y	0.000	-731.345	-731.345	2000.000	2000.000	0.000
Z	0.000	-0.786	-0.786	0.200	0.200	0.586
D	210.300	210.689	0.389	0.200	0.200	0.189
RN	0.000	0.118	0.118	0.200	0.000	0.000

⌖	MM	LOC_CC9 - CIRC_CAV_4_1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.027	-0.027	0.200	0.200	0.000
Y	0.000	-624.633	-624.633	2000.000	2000.000	0.000
Z	0.000	-0.875	-0.875	0.200	0.200	0.675
D	210.300	210.514	0.214	0.200	0.200	0.014
RN	0.000	0.185	0.185	0.200	0.000	0.000

⌖	MM	LOC_CC10 - CIRC_CAV_4_2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.014	-0.014	0.200	0.200	0.000
Y	0.000	-615.398	-615.398	2000.000	2000.000	0.000
Z	0.000	-0.797	-0.797	0.200	0.200	0.597
D	210.300	210.492	0.192	0.200	0.200	0.000
RN	0.000	0.212	0.212	0.200	0.000	0.012

⌖	MM	LOC_CC11 - CIRC_CAV_5_1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.019	-0.019	0.200	0.200	0.000
Y	0.000	-508.469	-508.469	2000.000	2000.000	0.000
Z	0.000	-1.024	-1.024	0.200	0.200	0.824
D	210.300	210.607	0.307	0.200	0.200	0.107
RN	0.000	0.223	0.223	0.200	0.000	0.023

⌖	MM	LOC_CC12 - CIRC_CAV_5_2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.017	0.017	0.200	0.200	0.000
Y	0.000	-499.488	-499.488	2000.000	2000.000	0.000
Z	0.000	-0.972	-0.972	0.200	0.200	0.772
D	210.300	210.496	0.196	0.200	0.200	0.000
RN	0.000	0.131	0.131	0.200	0.000	0.000

⌖	MM	LOC_CC13 - CIRC_CAV_6_1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.083	-0.083	0.200	0.200	0.000
Y	0.000	-392.925	-392.925	2000.000	2000.000	0.000
Z	0.000	-1.253	-1.253	0.200	0.200	1.053
D	210.300	210.532	0.232	0.200	0.200	0.032
RN	0.000	0.265	0.265	0.200	0.000	0.065

⌖	MM	LOC_CC14 - CIRC_CAV_6_2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.106	-0.106	0.200	0.200	0.000
Y	0.000	-383.551	-383.551	2000.000	2000.000	0.000
Z	0.000	-1.252	-1.252	0.200	0.200	1.052
D	210.300	210.450	0.150	0.200	0.200	0.000
RN	0.000	0.246	0.246	0.200	0.000	0.046

⌖	MM	LOC_CC15 - CIRC_CAV_7_1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.230	-0.230	0.200	0.200	0.030
Y	0.000	-277.855	-277.855	2000.000	2000.000	0.000
Z	0.000	-1.386	-1.386	0.200	0.200	1.186
D	210.300	210.518	0.218	0.200	0.200	0.018
RN	0.000	0.161	0.161	0.200	0.000	0.000

⌖	MM	LOC_CC16 - CIRC_CAV_7_2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.292	-0.292	0.200	0.200	0.092
Y	0.000	-268.274	-268.274	2000.000	2000.000	0.000
Z	0.000	-1.301	-1.301	0.200	0.200	1.101
D	210.300	210.465	0.165	0.200	0.200	0.000
RN	0.000	0.342	0.342	0.200	0.000	0.142

⌖	MM	LOC_CC17 - CIRC_CAV_8_1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.329	-0.329	0.200	0.200	0.129
Y	0.000	-161.519	-161.519	2000.000	2000.000	0.000
Z	0.000	-1.114	-1.114	0.200	0.200	0.914
D	210.300	210.542	0.242	0.200	0.200	0.042
RN	0.000	0.138	0.138	0.200	0.000	0.000

⌖	MM	LOC_CC18 - CIRC_CAV_8_2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.342	-0.342	0.200	0.200	0.142
Y	0.000	-152.109	-152.109	2000.000	2000.000	0.000
Z	0.000	-1.075	-1.075	0.200	0.200	0.875
D	210.300	210.560	0.260	0.200	0.200	0.060
RN	0.000	0.235	0.235	0.200	0.000	0.035

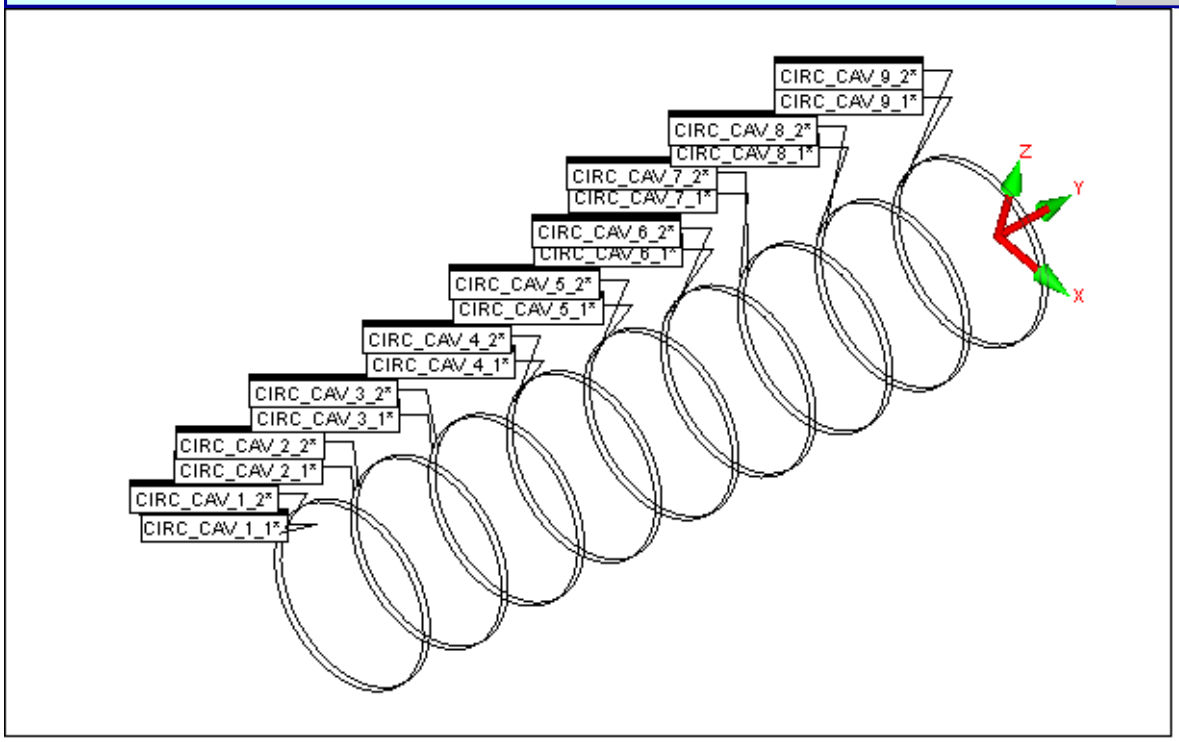
⌖	MM	LOC_CC19 - CIRC_CAV_9_1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.161	-0.161	0.200	0.200	0.000
Y	0.000	-45.702	-45.702	2000.000	2000.000	0.000
Z	0.000	-0.489	-0.489	0.200	0.200	0.289
D	210.300	210.568	0.268	0.200	0.200	0.068
RN	0.000	0.165	0.165	0.200	0.000	0.000

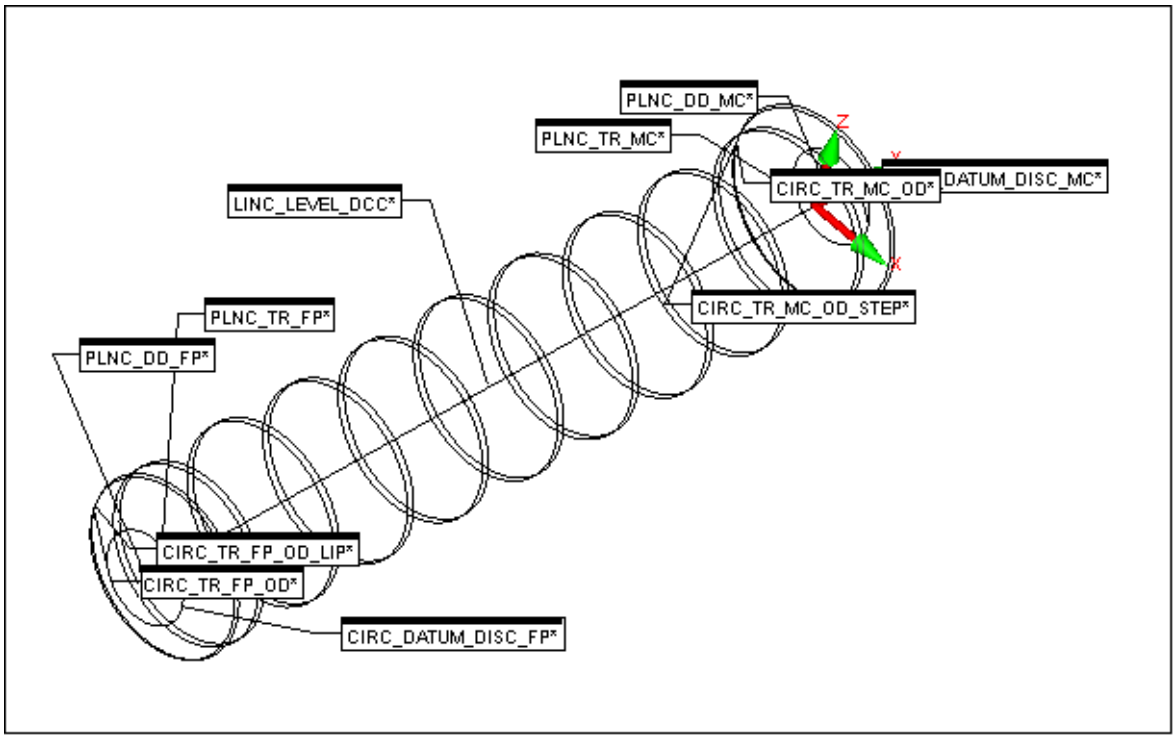
⊕	MM	LOC_CC20 - CIRC_CAV_9_2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.154	-0.154	0.200	0.200	0.000
Y	0.000	-36.494	-36.494	2000.000	2000.000	0.000
Z	0.000	-0.446	-0.446	0.200	0.200	0.246
D	210.300	210.531	0.231	0.200	0.200	0.031
RN	0.000	0.214	0.214	0.200	0.000	0.014

Location of End Flanges

⊕	MM	LOC_23 - CIR_END_FLANGE_MC				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.170	0.170	0.200	0.200	0.000
Y	0.000	114.807	114.807	2000.000	2000.000	0.000
Z	0.000	0.498	0.498	0.200	0.200	0.298
D	140.000	140.120	0.120	0.300	0.300	0.000
RN	0.000	0.011	0.011	0.200	0.000	0.000

⊕	MM	LOC_24 - CIR_END_FLANGE_FP				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.203	0.203	0.200	0.200	0.003
Y	-1153.884	-1155.975	-2.091	2000.000	2000.000	0.000
Z	0.000	0.901	0.901	0.200	0.200	0.701
D	140.000	140.222	0.222	0.300	0.300	0.000
RN	0.000	0.006	0.006	0.200	0.000	0.000

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PLNC_DD_FP*
CIRC_TR_FP_OD_LIP*
CIRC_TR_FP_OD*
CIRC_DATUM_DISC_FP*