pc-dmis	PART NAME : PN440004-n ILC 1p3GHZ RF CAVITY ASSEMBLY 000 TB9NR004 v5x IR09		April 04, 2011	10:22
	REV NUMBER :	SER NUMBER :	STATS COUNT :	1

440004-n
FNAL 1.3GHZ TESLA
RF CAVITY
ASSEMBLY
@ 000 rotation
'Inspected by ' : Robert Riley
'Cavity Number' : TB9NR004
' ' : 1104040811

BEAM PIPE FLANGE NEAR

⌖	MM	LOC1 - PL-NEAR-END-FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	0.000	0.000	0.000	0.200	0.200	0.000	
FL	0.000	0.009	0.009	0.200	0.000	0.000	

AX	I	J	K
V	-0.002	-1.000	0.004

//	MM	PARL1 - PL-NEAR-END-FLANGE TO YMINUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.503	0.503	0.200	0	0.303	

∠	DEG	ANGL1 - PL-NEAR-END-FLANGE TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	90.240	0.240	0.100	0.100	0.140	

⌖	MM	LOC2 - CR-NEAR-END-FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.443	0.443	0.200	0.200	0.243	
Z	0.000	0.220	0.220	0.200	0.200	0.020	
D	140.000	140.042	0.042	0.300	0.300	0.000	
RN	0.000	0.048	0.048	0.200	0.000	0.000	

⌗	MM	LOC3 - PL-FAR-END				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1247.400	1249.430	2.030	3.000	3.000	0.000
FL	0.000	0.004	0.004	0.200	0.000	0.000

AX	I	J	K
V	0.001	1.000	-0.002

//	MM	PARL2 - PL-FAR-END TO YPLUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.265	0.265	0.200	0	0.065

∡	DEG	ANGL2 - PL-FAR-END TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	90.126	0.126	0.100	0.100	0.026

⌗	MM	LOC4 - CR-FAR-END				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.372	-0.373	0.200	0.200	0.173
Z	0.000	-0.113	-0.113	0.200	0.200	0.000
D	140.000	139.997	-0.003	0.300	0.300	0.000
RN	0.000	0.041	0.041	0.200	0.000	0.000

DATUM-1-PLANE

⌗	MM	LOC-DATUM-1-PLANE - PLC-DAT-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	92.840	92.716	-0.124	0.200	0.200	0.000	
FL	0.000	0.134	0.134	0.200	0.000	0.000	
AX		I		J		K	
V		-0.002		-1.000		0.007	
//	MM	PARL5 - PLC-DAT-1 TO YMINUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.782	0.782	0.200	0	0.582	
∠	DEG	ANGL7 - PLC-DAT-1 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	90.418	0.418	0.100	0.100	0.318	

DATUM-2-PLANE

⌗	MM	LOC-DATUM-2-PLANE - PLC-DAT-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	1154.560	1156.319	1.759	0.200	0.200	1.559	
FL	0.000	0.073	0.073	0.200	0.000	0.000	
AX		I		J		K	
V		0.001		1.000		-0.003	
//	MM	PARL6 - PLC-DAT-2 TO YPLUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.339	0.339	0.200	0	0.139	
∠	DEG	ANGL8 - PLC-DAT-2 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.826	-0.174	0.100	0.100	-0.074	
↔	MM	DIST3 - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1061.060	1063.603	2.543	0.200	0.200	2.343	
↔	MM	DIST4 - PLC-DAT-2 TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	93.500	93.111	-0.389	0.200	0.200	-0.189	

PICKUP ANTENNA FLANGE NW8

⌖	MM	LOC5 - PL NW8 ANTENNA FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-53.800	-53.159	0.641	0.200	0.200	0.441
FL	0.000	0.046	0.046	0.200	0.000	0.000

AX	I	J	K
V	-1.000	-0.015	0.018

//	MM	PARL3 - PL NW8 ANTENNA FLANGE TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.818	0.818	0.200	0	0.618

∠	DEG	ANGL3 - PL NW8 ANTENNA FLANGE TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	88.281	-1.719	0.100	0.100	-1.619

⌖	MM	LOC6 - CR_NW8_ANTENNA_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	60.600	60.054	-0.546	0.200	0.200	0.346
Z	0.000	1.468	1.468	0.200	0.200	1.268
D	33.800	33.658	-0.142	0.150	0.000	0.142
RN	0.000	0.048	0.048	0.150	0.000	0.000

MAIN COUPLER FLANGE NW40

⌖	MM	LOC7 - PL NW 40 FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	88.000	87.182	-0.818	0.200	0.200	0.618
FL	0.000	0.007	0.007	0.200	0.000	0.000

AX	I	J	K
V	1.000	-0.011	0.004

//	MM	PARL4 - PL NW 40 FLANGE TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.696	0.696	0.200	0	0.496

∠	DEG	ANGL4 - PL NW 40 FLANGE TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	90.589	0.589	0.100	0.100	0.489

⌖	MM	LOC8 - CR_NW_40_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1186.800	1188.243	1.443	0.200	0.200	1.243
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	76.000	76.059	0.059	0.200	0.000	0.000
RN	0.000	0.045	0.045	0.200	0.000	0.000

↔	MM	DIST1 - CR_NW_40_FLANGE TO PL-FAR-END (YAXIS)				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	60.600	61.187	0.587	0.200	0.200	0.387

⌖	MM	TP NW40 MC BH1 - CR NW 40 FLANGE BH1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.626	-0.124					
PA	112.500	112.113	-0.387					
DF	6.700	6.600	-0.100	0.200	0.200	0.000	0.000	
RN	0.000	0.048	0.048	0.200	0.000	0.000		
TP	RFS		0.494	0.300		0.194	0.000	

⌖	MM	TP NW40 MC BH2 - CR NW 40 FLANGE BH2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.696	-0.054					
PA	67.500	66.975	-0.525					
DF	6.700	6.603	-0.097	0.200	0.200	0.000	0.000	
RN	0.000	0.030	0.030	0.200	0.000	0.000		
TP	RFS		0.591	0.300		0.291	0.000	

⌖	MM	TP NW40 MC BH3 - CR NW 40 FLANGE BH3						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.759	0.009					
PA	22.500	22.182	-0.318					
DF	6.700	6.614	-0.086	0.200	0.200	0.000	0.000	
RN	0.000	0.037	0.037	0.200	0.000	0.000		
TP	RFS		0.353	0.300		0.053	0.000	

⌖	MM	TP NW40 MC BH4 - CR NW 40 FLANGE BH4						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.770	0.020					
PA	-22.500	-22.712	-0.212					
DF	6.700	6.600	-0.100	0.200	0.200	0.000	0.000	
RN	0.000	0.033	0.033	0.200	0.000	0.000		
TP	RFS		0.238	0.300		0.000	0.000	

⌖	MM	TP NW40 MC BH5 - CR NW 40 FLANGE BH5						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.660	-0.090					
PA	-67.500	-67.591	-0.091					
DF	6.700	6.608	-0.092	0.200	0.200	0.000	0.000	
RN	0.000	0.028	0.028	0.200	0.000	0.000		
TP	RFS		0.206	0.300		0.000	0.000	

	MM	TP NW40 MC BH6 - CR NW 40 FLANGE BH6					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.581	-0.169				
PA	-112.500	-112.709	-0.209				
DF	6.700	6.614	-0.086	0.200	0.200	0.000	0.000
RN	0.000	0.028	0.028	0.200	0.000	0.000	
TP	RFS		0.409	0.300		0.109	0.000

	MM	TP NW40 MC BH7 - CR NW 40 FLANGE BH7					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.549	-0.201				
PA	-157.500	-157.812	-0.312				
DF	6.700	6.582	-0.118	0.200	0.200	0.000	0.000
RN	0.000	0.050	0.050	0.200	0.000	0.000	
TP	RFS		0.530	0.300		0.230	0.000

	MM	TP NW40 MC BH8 - CR NW 40 FLANGE BH8					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.593	-0.157				
PA	157.500	157.138	-0.362				
DF	6.700	6.577	-0.123	0.200	0.200	0.000	0.000
RN	0.000	0.067	0.067	0.200	0.000	0.000	
TP	RFS		0.508	0.300		0.208	0.000

HOM-2 FLANGE NW12

	MM	FLAT4 - PL-NW12-FLANGE-HOM2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.004	0.004	0.200	0.000	0.000

	MM	VECTOR1 - PL-NW12-FLANGE-HOM2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL

AX	I	J	K
V	-0.562	0.247	0.789

	DEG	ANGL6 - PL-NW12-FLANGE-HOM2 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	35.000	54.888	19.888	0.500	0.500	19.388

	MM	LOC9 - CR-NW12-FLANGE-HOM2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-72.022	-72.022	100.000	100.000	0.000
Y	0.000	1191.623	1191.623	2000.000	2000.000	0.000
Z	0.000	-9.134	-9.134	100.000	100.000	0.000
D	33.800	33.727	-0.073	0.150	0.000	0.073
RN	0.000	0.186	0.186	0.150	0.000	0.036

↔	MM	DIST FORMTEIL2 POINT - PT-FORMTEIL2 TO PL-NW12-FLANGE-HOM2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	28.420	28.409	-0.011	0.100	0.100	0.000

↔	MM	DIST FORMTEIL2 TAIL - PL-FORMTEIL2 TO PL-NW12-FLANGE-HOM2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	28.420	28.411	-0.009	0.100	0.100	0.000

∠	DEG	ANGL5 - PL-NW12-FLANGE-HOM2 TO LINC ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	15.000	104.101	89.101	0.500	0.500	88.601

HOM 1 LOCATION

⊞	MM	LOC-HOM1 - CY-HOM-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	67.757	67.757	100.000	100.000	0.000
Y	60.600	60.662	0.062	0.200	0.200	0.000
Z	0.000	-41.350	-41.350	100.000	100.000	0.000
D	44.000	43.588	-0.412	0.000	0.100	0.312
RN	0.000	0.265	0.265	0.100	0.000	0.165

AX	I	J	K
V	-0.853	-0.006	0.522

∠	DEG	ANGL9 - CY-HOM-1 TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	30.000	31.866	1.866	0.500	0.500	1.366

∠	DEG	ANGL10 - CY-HOM-1 TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	-90.000	-90.395	-0.395	0.500	0.500	0.000

∠	DEG	ANGL11 - CY-HOM-1 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	60.000	58.134	-1.866	0.500	0.500	-1.366

INTERSECTION OF HOM1 & YZ PLANE

⊞	MM	LOC-HOM1 X PLANE - PTC-HOM1 X YZ PLANE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.000	0.000	0.200	0.200	0.000
Y	60.600	60.112	-0.488	0.200	0.200	0.288
Z	0.000	0.769	0.769	0.200	0.200	0.569

▱	MM	LOC_HOM1_FLANGE_A - PL_NW12_FLANGE_HOM1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.021	0.021	0.200	0.000	0.000

⊞	MM	LOC_HOM1_FLANGE_B - PL_NW12_FLANGE_HOM1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL

AX	I	J	K
V	-0.487	-0.239	-0.840

⊿	DEG	ANGL17 - PL_NW12_FLANGE_HOM1 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	15.000	105.977	90.977	0.500	0.500	90.477

⊞	MM	LOC_HOM1_FLANGE_D - CR_NW12_FLANGE_HOM1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	40.497	39.636	-0.861	100.000	100.000	0.000
Y	92.086	58.026	-34.060	100.000	100.000	0.000
Z	-56.755	-59.937	-3.182	100.000	100.000	0.000
D	33.800	33.813	0.013	0.150	0.150	0.000
RN	0.000	0.153	0.153	0.150	0.000	0.003

HOM 2 LOCATION

⊞	MM	LOC-HOM2 - CY-HOM-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-64.876	-64.876	100.000	100.000	0.000
Y	1186.800	1188.848	2.048	3.000	3.000	0.000
Z	0.000	-45.028	-45.028	100.000	100.000	0.000
D	44.000	43.654	-0.346	0.000	0.100	0.246
RN	0.000	0.192	0.192	0.100	0.000	0.092

AX	I	J	K
V	-0.819	0.005	-0.573

↔	MM	DIST2 - CY-HOM-2 TO PL-FAR-END (YAXIS)				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	60.600	60.583	-0.017	0.200	0.200	0.000

⊿	DEG	ANGL12 - CY-HOM-2 TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	35.000	34.626	-0.374	0.500	0.500	0.000

⊿	DEG	ANGL13 - CY-HOM-2 TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	-90.000	-89.800	0.200	0.500	0.500	0.000

⊿	DEG	ANGL14 - CY-HOM-2 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	55.000	55.374	0.374	0.500	0.500	0.000

INTERSECTION OF HOM2 & YZ PLANE

⊞	MM	LOC-HOM2 X PLANE - PTC-HOM2 X YZ PLANE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.000	0.000	0.200	0.200	0.000
Y	1186.800	1188.572	1.772	3.000	3.000	0.000
Z	0.000	-0.231	-0.231	0.200	0.200	0.031

⌖	MM	LOC-CC1 - CRC-DAT-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.000	0.000	0.200	0.200	0.000
Y	0.000	94.727	94.727	2000.000	2000.000	0.000
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	111.000	110.815	-0.185	0.050	0.050	0.135
RN	0.000	0.120	0.120	0.050	0.000	0.070

⌖	MM	LOC-CC2 - CRC-VAC-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.060	0.060	0.200	0.200	0.000
Y	158.307	120.649	-37.658	2000.000	2000.000	0.000
Z	0.000	-0.048	-0.048	0.200	0.200	0.000
D	211.000	210.341	-0.659	0.200	0.200	0.459
RN	0.000	0.350	0.350	0.200	0.000	0.150

⌖	MM	LOC-CC3 - CRC-CAV-1-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.065	-0.065	0.200	0.200	0.000
Y	0.000	156.766	156.766	2000.000	2000.000	0.000
Z	0.000	-0.155	-0.155	0.200	0.200	0.000
D	210.300	211.025	0.725	0.200	0.200	0.525
RN	0.000	0.217	0.217	0.200	0.000	0.017

⌖	MM	LOC-CC4 - CRC-CAV-1-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.270	-0.270	0.200	0.200	0.070
Y	0.000	166.652	166.652	2000.000	2000.000	0.000
Z	0.000	0.106	0.106	0.200	0.200	0.000
D	210.300	211.009	0.709	0.200	0.200	0.509
RN	0.000	0.288	0.288	0.200	0.000	0.088

⌖	MM	LOC-CC5 - CRC-CAV-2-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.490	-0.490	0.200	0.200	0.290
Y	0.000	273.158	273.158	2000.000	2000.000	0.000
Z	0.000	-0.216	-0.217	0.200	0.200	0.017
D	210.300	210.926	0.626	0.200	0.200	0.426
RN	0.000	0.280	0.280	0.200	0.000	0.080

⌗	MM	LOC-CC6 - CRC-CAV-2-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.429	-0.429	0.200	0.200	0.229
Y	0.000	283.036	283.036	2000.000	2000.000	0.000
Z	0.000	-0.339	-0.339	0.200	0.200	0.139
D	210.300	210.869	0.569	0.200	0.200	0.369
RN	0.000	0.346	0.346	0.200	0.000	0.146

⌗	MM	LOC-CC7 - CRC-CAV-3-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.366	-0.367	0.200	0.200	0.167
Y	0.000	388.754	388.754	2000.000	2000.000	0.000
Z	0.000	-0.199	-0.199	0.200	0.200	0.000
D	210.300	210.915	0.615	0.200	0.200	0.415
RN	0.000	0.364	0.364	0.200	0.000	0.164

⌗	MM	LOC-CC8 - CRC-CAV-3-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.377	-0.377	0.200	0.200	0.177
Y	0.000	398.709	398.709	2000.000	2000.000	0.000
Z	0.000	-0.088	-0.088	0.200	0.200	0.000
D	210.300	210.952	0.651	0.200	0.200	0.451
RN	0.000	0.419	0.419	0.200	0.000	0.219

⌗	MM	LOC-CC9 - CRC-CAV-4-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.467	-0.467	0.200	0.200	0.267
Y	0.000	504.671	504.671	2000.000	2000.000	0.000
Z	0.000	-0.046	-0.046	0.200	0.200	0.000
D	210.300	210.911	0.611	0.200	0.200	0.411
RN	0.000	0.247	0.247	0.200	0.000	0.047

⌗	MM	LOC-CC10 - CRC-CAV-4-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.513	-0.513	0.200	0.200	0.313
Y	0.000	514.962	514.962	2000.000	2000.000	0.000
Z	0.000	0.100	0.100	0.200	0.200	0.000
D	210.300	210.942	0.642	0.200	0.200	0.442
RN	0.000	0.390	0.390	0.200	0.000	0.190

⌗	MM	LOC-CC11 - CRC-CAV-5-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.035	-0.035	0.200	0.200	0.000
Y	0.000	620.441	620.441	2000.000	2000.000	0.000
Z	0.000	0.173	0.173	0.200	0.200	0.000
D	210.300	210.931	0.631	0.200	0.200	0.431
RN	0.000	0.398	0.398	0.200	0.000	0.198

⊞	MM	LOC-CC12 - CRC-CAV-5-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.193	0.193	0.200	0.200	0.000
Y	0.000	630.472	630.472	2000.000	2000.000	0.000
Z	0.000	0.354	0.354	0.200	0.200	0.154
D	210.300	210.937	0.637	0.200	0.200	0.437
RN	0.000	0.236	0.236	0.200	0.000	0.036

⊞	MM	LOC-CC13 - CRC-CAV-6-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.172	0.172	0.200	0.200	0.000
Y	0.000	736.556	736.556	2000.000	2000.000	0.000
Z	0.000	0.422	0.422	0.200	0.200	0.222
D	210.300	210.944	0.644	0.200	0.200	0.444
RN	0.000	0.332	0.332	0.200	0.000	0.132

⊞	MM	LOC-CC14 - CRC-CAV-6-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.270	0.270	0.200	0.200	0.070
Y	0.000	746.431	746.431	2000.000	2000.000	0.000
Z	0.000	0.308	0.308	0.200	0.200	0.108
D	210.300	210.947	0.647	0.200	0.200	0.447
RN	0.000	0.286	0.286	0.200	0.000	0.086

⊞	MM	LOC-CC15 - CRC-CAV-7-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.291	0.291	0.200	0.200	0.091
Y	0.000	852.330	852.330	2000.000	2000.000	0.000
Z	0.000	0.241	0.241	0.200	0.200	0.041
D	210.300	210.603	0.303	0.200	0.200	0.103
RN	0.000	0.298	0.298	0.200	0.000	0.098

⊞	MM	LOC-CC16 - CRC-CAV-7-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.333	0.333	0.200	0.200	0.133
Y	0.000	861.874	861.874	2000.000	2000.000	0.000
Z	0.000	0.289	0.288	0.200	0.200	0.088
D	210.300	210.948	0.648	0.200	0.200	0.448
RN	0.000	0.527	0.527	0.200	0.000	0.327

⊞	MM	LOC-CC17 - CRC-CAV-8-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.101	0.101	0.200	0.200	0.000
Y	0.000	967.282	967.282	2000.000	2000.000	0.000
Z	0.000	0.302	0.302	0.200	0.200	0.102
D	210.300	210.838	0.538	0.200	0.200	0.338
RN	0.000	0.436	0.436	0.200	0.000	0.236

⊞	MM	LOC-CC18 - CRC-CAV-8-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.091	0.091	0.200	0.200	0.000
Y	0.000	977.525	977.525	2000.000	2000.000	0.000
Z	0.000	0.393	0.393	0.200	0.200	0.193
D	210.300	210.940	0.640	0.200	0.200	0.440
RN	0.000	0.410	0.410	0.200	0.000	0.210

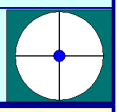
⊞	MM	LOC-CC19 - CRC-CAV-9-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.030	-0.030	0.200	0.200	0.000
Y	0.000	1083.587	1083.587	2000.000	2000.000	0.000
Z	0.000	0.235	0.234	0.200	0.200	0.034
D	210.300	210.779	0.479	0.200	0.200	0.279
RN	0.000	0.188	0.188	0.200	0.000	0.000

⊞	MM	LOC-CC20 - CRC-CAV-9-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.026	-0.026	0.200	0.200	0.000
Y	0.000	1093.319	1093.319	2000.000	2000.000	0.000
Z	0.000	0.179	0.179	0.200	0.200	0.000
D	210.300	210.843	0.543	0.200	0.200	0.343
RN	0.000	0.313	0.313	0.200	0.000	0.113

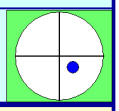
⊞	MM	LOC-CC21 - CRC-VAC-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.074	0.074	0.200	0.200	0.000
Y	1156.557	1126.867	-29.690	2000.000	2000.000	0.000
Z	0.000	0.179	0.179	0.200	0.200	0.000
D	235.000	233.988	-1.012	0.200	0.200	0.812
RN	0.000	0.225	0.225	0.200	0.000	0.025

⊞	MM	LOC-CC22 - CRC-DAT-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.000	0.000	0.200	0.200	0.000
Y	0.000	1154.514	1154.514	2000.000	2000.000	0.000
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	111.000	110.844	-0.156	0.050	0.050	0.106
RN	0.000	0.080	0.080	0.050	0.000	0.030

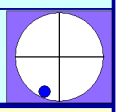
⌖	MM	LOC-TP-CC1 - CRC-DAT-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.000	0.000				
Z	0.000	0.000	0.000				
TP	RFS		0.000	0.400		0.000	0.000



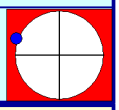
⌖	MM	LOC-TP-CC2 - CRC-VAC-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.060	0.060				
Z	0.000	-0.048	-0.048				
TP	RFS		0.153	0.400		0.000	0.000



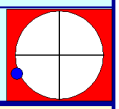
⌖	MM	LOC-TP-CC3 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.065	-0.065				
Z	0.000	-0.155	-0.155				
TP	RFS		0.337	0.400		0.000	0.000



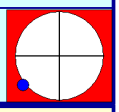
⌖	MM	LOC-TP-CC4 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.270	-0.270				
Z	0.000	0.106	0.106				
TP	RFS		0.579	0.400		0.179	0.000



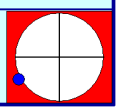
⌖	MM	LOC-TP-CC5 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.490	-0.490				
Z	0.000	-0.216	-0.217				
TP	RFS		1.072	0.400		0.672	0.000



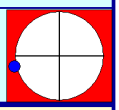
⌖	MM	LOC-TP-CC6 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.429	-0.429				
Z	0.000	-0.339	-0.339				
TP	RFS		1.094	0.400		0.694	0.000



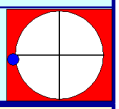
⌖	MM	LOC-TP-CC7 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.366	-0.367				
Z	0.000	-0.199	-0.199				
TP	RFS		0.834	0.400		0.434	0.000



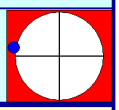
⌖	MM	LOC-TP-CC8 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.377	-0.377				
Z	0.000	-0.088	-0.088				
TP	RFS		0.774	0.400		0.374	0.000



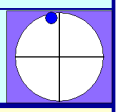
⌖	MM	LOC-TP-CC9 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.467	-0.467				
Z	0.000	-0.046	-0.046				
TP	RFS		0.939	0.400		0.539	0.000



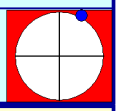
⌖	MM	LOC-TP-CC10 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.513	-0.513				
Z	0.000	0.100	0.100				
TP	RFS		1.046	0.400		0.646	0.000



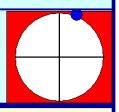
⌖	MM	LOC-TP-CC11 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.035	-0.035				
Z	0.000	0.173	0.173				
TP	RFS		0.353	0.400		0.000	0.000



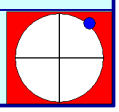
⌖	MM	LOC-TP-CC12 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.193	0.193				
Z	0.000	0.354	0.354				
TP	RFS		0.806	0.400		0.406	0.000



⌖	MM	LOC-TP-CC13 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.172	0.172				
Z	0.000	0.422	0.422				
TP	RFS		0.911	0.400		0.511	0.000



⌖	MM	LOC-TP-CC14 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.270	0.270				
Z	0.000	0.308	0.308				
TP	RFS		0.819	0.400		0.419	0.000



⌖	MM	LOC-TP-CC15 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.291	0.291				
Z	0.000	0.241	0.241				
TP	RFS		0.756	0.400		0.356	0.000

⌖	MM	LOC-TP-CC16 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.333	0.333				
Z	0.000	0.289	0.288				
TP	RFS		0.881	0.400		0.481	0.000

⌖	MM	LOC-TP-CC17 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.101	0.101				
Z	0.000	0.302	0.302				
TP	RFS		0.638	0.400		0.238	0.000

⌖	MM	LOC-TP-CC18 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.091	0.091				
Z	0.000	0.393	0.393				
TP	RFS		0.807	0.400		0.407	0.000

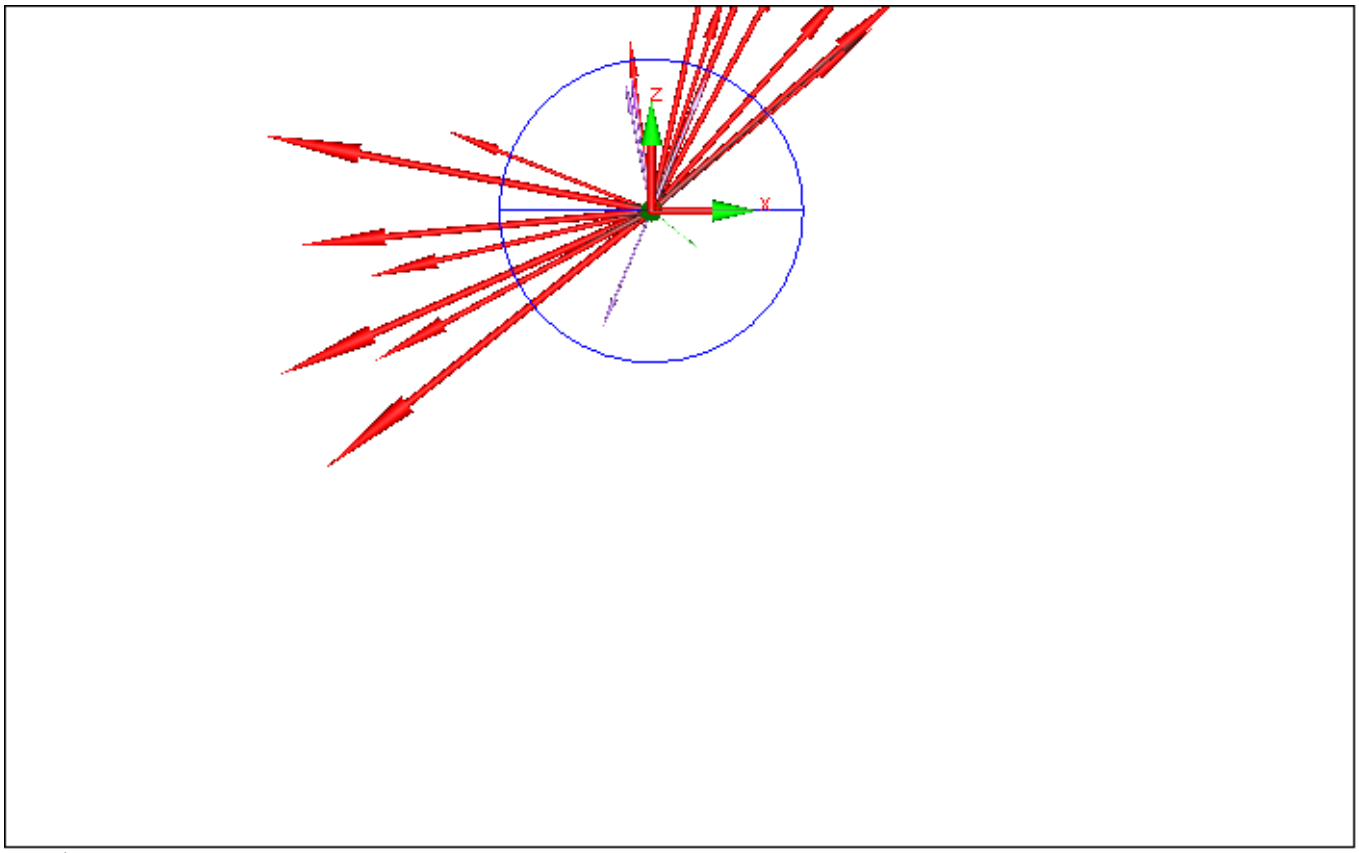
⌖	MM	LOC-TP-CC19 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.030	-0.030				
Z	0.000	0.235	0.234				
TP	RFS		0.473	0.400		0.073	0.000

⌖	MM	LOC-TP-CC20 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.026	-0.026				
Z	0.000	0.179	0.179				
TP	RFS		0.362	0.400		0.000	0.000

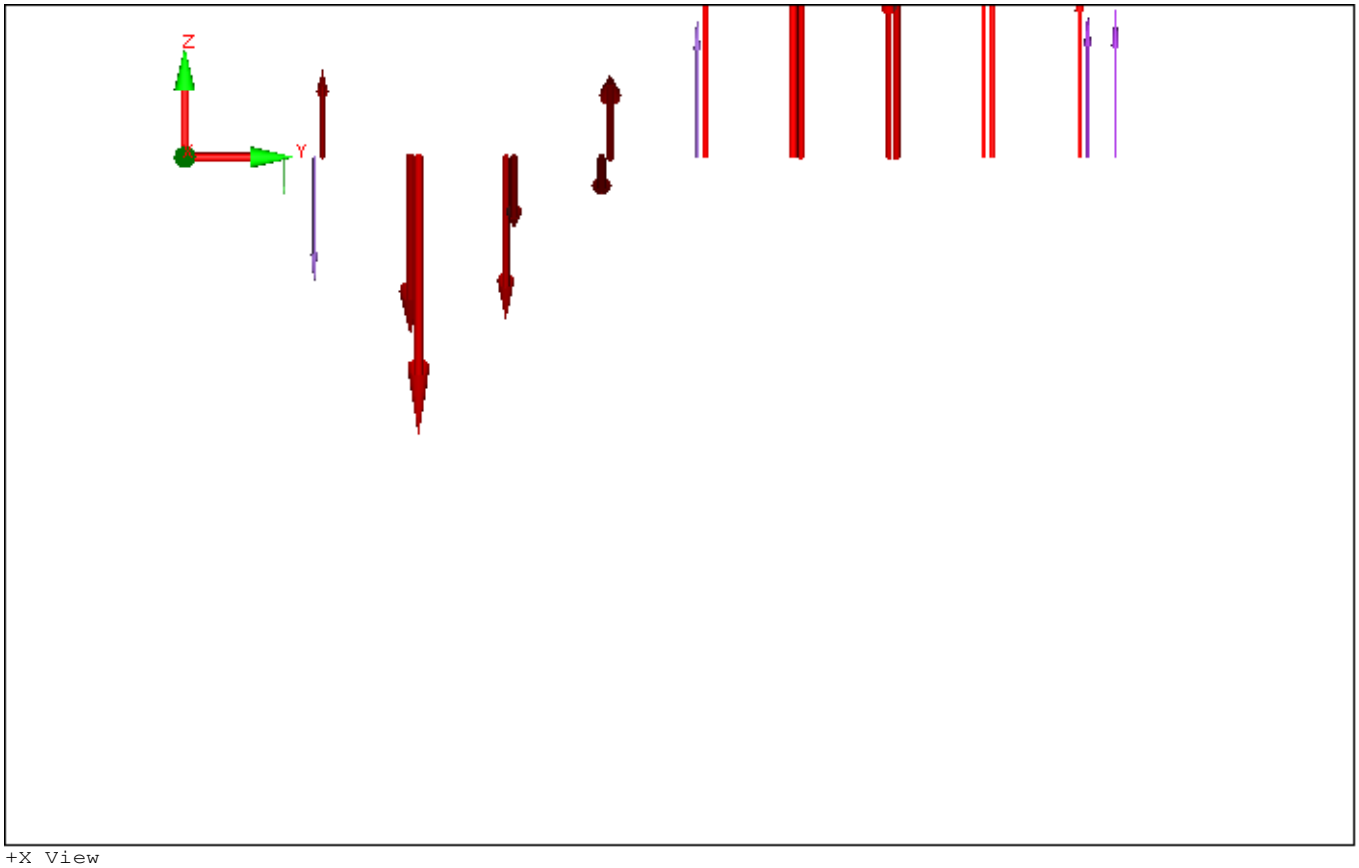
⌖	MM	LOC-TP-CC21 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.074	0.074				
Z	0.000	0.179	0.179				
TP	RFS		0.388	0.400		0.000	0.000

⌖	MM	LOC-TP-CC22 - CRC-DAT-2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	0.000	0.000					
Z	0.000	0.000	0.000					
TP	RFS		0.000	0.400		0.000	0.000	

True Position plots from 3 views
x1000



-Y View
x1000



+X View
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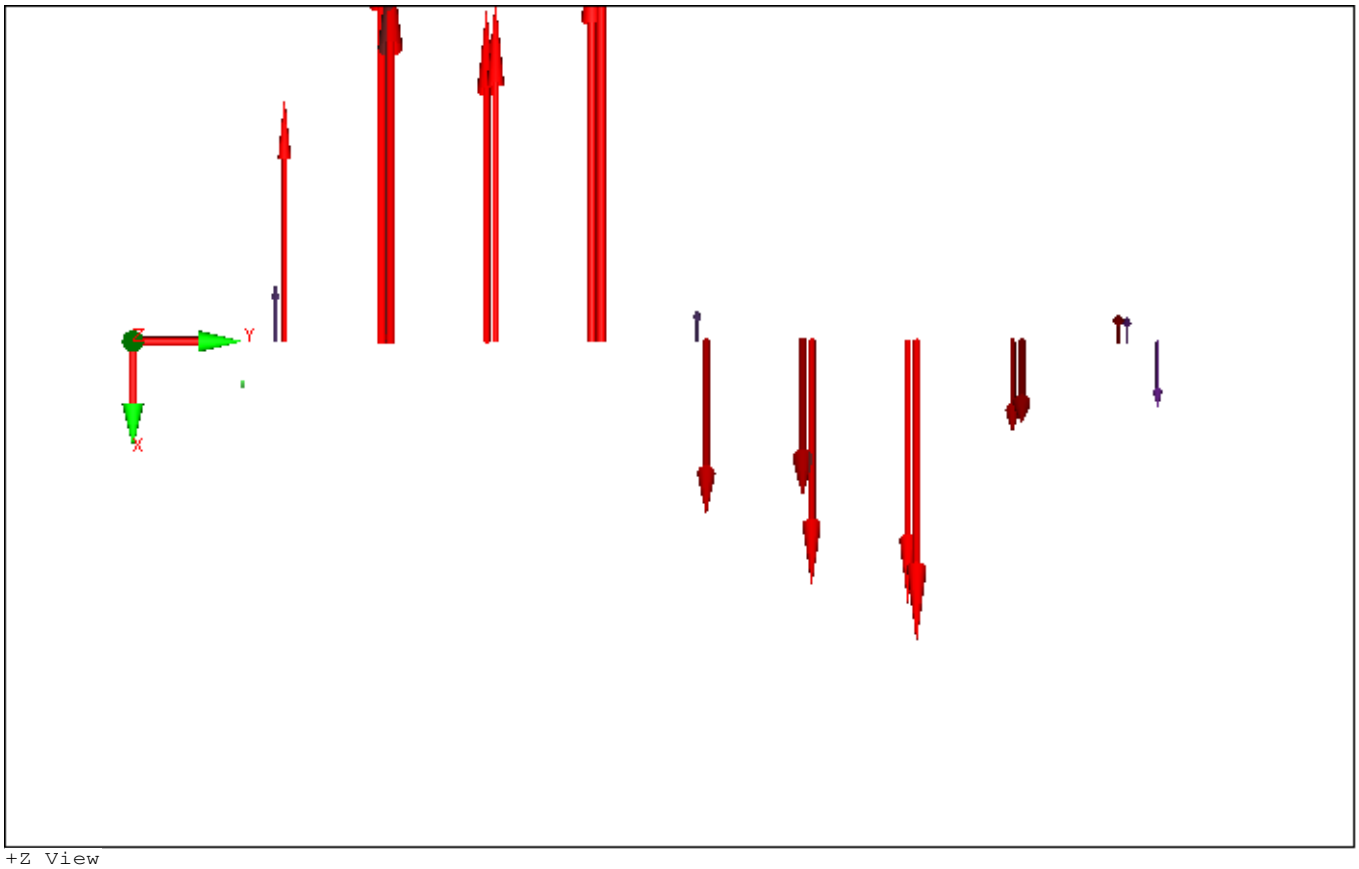

+Z View
x1000

⌗	MM	LOC-BEST FIT CONSTRUCTED LINE - LNC-BEST-FIT				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.295	-0.067	-0.362	0.200	0.200	0.162
Y	658.560	625.149	-33.411	2000.000	2000.000	0.000
Z	0.000	0.100	0.099	0.200	0.200	0.000
ST	0.000	0.768	0.768	0.400	0.000	0.368

SUPPORT RING CIRCLE LOCATIONS
Positive -X- side (right)

⌗	MM	LOC-SUPPORT RING-P1 - CR_SUPPORT_RING_P12				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.351	-0.352	0.200	0.200	0.152
Y	0.000	219.280	219.280	2000.000	2000.000	0.000
Z	0.000	-0.159	-0.159	0.200	0.200	0.000
R	56.500	56.458	-0.042	0.200	0.200	0.000
RN	0.000	0.152	0.152	0.200	0.000	0.000

⌗	MM	LOC-SUPPORT RING-P2 - CR_SUPPORT_RING_P23				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.656	-0.657	0.200	0.200	0.457
Y	0.000	334.873	334.873	2000.000	2000.000	0.000
Z	0.000	-0.413	-0.413	0.200	0.200	0.213
R	56.500	56.408	-0.092	0.200	0.200	0.000
RN	0.000	0.034	0.034	0.200	0.000	0.000

⌗	MM	LOC-SUPPORT RING-P3 - CR_SUPPORT_RING_P34				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.399	-0.399	0.200	0.200	0.199
Y	0.000	449.771	449.771	2000.000	2000.000	0.000
Z	0.000	-0.101	-0.101	0.200	0.200	0.000
R	56.500	56.337	-0.163	0.200	0.200	0.000
RN	0.000	0.048	0.048	0.200	0.000	0.000

⌗	MM	LOC-SUPPORT RING-P4 - CR_SUPPORT_RING_P45				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.147	-0.147	0.200	0.200	0.000
Y	0.000	565.375	565.375	2000.000	2000.000	0.000
Z	0.000	0.007	0.007	0.200	0.200	0.000
R	56.500	56.300	-0.200	0.200	0.200	0.000
RN	0.000	0.036	0.036	0.200	0.000	0.000

⌗	MM	LOC-SUPPORT RING-P5 - CR_SUPPORT_RING_P56				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.191	0.191	0.200	0.200	0.000
Y	0.000	680.675	680.675	2000.000	2000.000	0.000
Z	0.000	0.435	0.435	0.200	0.200	0.235
R	56.500	56.278	-0.222	0.200	0.200	0.022
RN	0.000	0.020	0.020	0.200	0.000	0.000

⌗	MM	LOC-SUPPORT RING-P6 - CR_SUPPORT_RING_P67				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.198	0.198	0.200	0.200	0.000
Y	0.000	796.071	796.071	2000.000	2000.000	0.000
Z	0.000	0.377	0.377	0.200	0.200	0.177
R	56.500	56.378	-0.122	0.200	0.200	0.000
RN	0.000	0.031	0.031	0.200	0.000	0.000

⌗	MM	LOC-SUPPORT RING-P7 - CR_SUPPORT_RING_P78				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.109	0.109	0.200	0.200	0.000
Y	0.000	911.579	911.579	2000.000	2000.000	0.000
Z	0.000	0.308	0.308	0.200	0.200	0.108
R	56.500	56.376	-0.124	0.200	0.200	0.000
RN	0.000	0.015	0.015	0.200	0.000	0.000

⌗	MM	LOC-SUPPORT RING-P8 - CR_SUPPORT_RING_P89				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.155	0.155	0.200	0.200	0.000
Y	0.000	1027.371	1027.371	2000.000	2000.000	0.000
Z	0.000	0.305	0.305	0.200	0.200	0.105
R	56.500	56.168	-0.332	0.200	0.200	0.132
RN	0.000	0.065	0.065	0.200	0.000	0.000

SUPPORT RING CIRCLE LOCATIONS
Negative -X- side (left)

⌗	MM	LOC_SUPPORT_RING_N1 - CR_SUPPORT_RING_N12				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.068	-0.068	0.200	0.200	0.000
Y	255.357	219.280	-36.077	2000.000	2000.000	0.000
Z	0.000	-0.005	-0.005	0.200	0.200	0.000
R	56.500	56.650	0.150	0.200	0.200	0.000
RN	0.000	0.215	0.215	0.200	0.000	0.015

⌗	MM	LOC_SUPPORT_RING_N2 - CR_SUPPORT_RING_N23				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.390	-0.390	0.200	0.200	0.190
Y	370.957	334.882	-36.075	2000.000	2000.000	0.000
Z	0.000	-0.281	-0.281	0.200	0.200	0.081
R	56.500	56.432	-0.068	0.200	0.200	0.000
RN	0.000	0.127	0.127	0.200	0.000	0.000

⌗	MM	LOC_SUPPORT_RING_N3 - CR_SUPPORT_RING_N34				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.436	-0.436	0.200	0.200	0.236
Y	485.857	449.783	-36.074	2000.000	2000.000	0.000
Z	0.000	-0.014	-0.014	0.200	0.200	0.000
R	56.500	56.427	-0.073	0.200	0.200	0.000
RN	0.000	0.027	0.027	0.200	0.000	0.000

⌗	MM	LOC_SUPPORT_RING_N4 - CR_SUPPORT_RING_N45				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.304	-0.304	0.200	0.200	0.104
Y	601.457	565.379	-36.078	2000.000	2000.000	0.000
Z	0.000	0.154	0.154	0.200	0.200	0.000
R	56.500	56.279	-0.221	0.200	0.200	0.021
RN	0.000	0.090	0.090	0.200	0.000	0.000

⌗	MM	LOC_SUPPORT_RING_N5 - CR_SUPPORT_RING_N56				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.352	0.352	0.200	0.200	0.152
Y	716.757	680.687	-36.070	2000.000	2000.000	0.000
Z	0.000	0.386	0.386	0.200	0.200	0.186
R	56.500	56.323	-0.177	0.200	0.200	0.000
RN	0.000	0.141	0.141	0.200	0.000	0.000

⌖	MM	LOC_SUPPORT_RING_N6 - CR_SUPPORT_RING_N67				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.164	0.164	0.200	0.200	0.000
Y	832.157	796.091	-36.067	2000.000	2000.000	0.000
Z	0.000	0.558	0.557	0.200	0.200	0.357
R	56.500	56.496	-0.004	0.200	0.200	0.000
RN	0.000	0.079	0.079	0.200	0.000	0.000

⌖	MM	LOC_SUPPORT_RING_N7 - CR_SUPPORT_RING_N78				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.084	0.084	0.200	0.200	0.000
Y	947.657	911.586	-36.071	2000.000	2000.000	0.000
Z	0.000	0.310	0.310	0.200	0.200	0.110
R	56.500	56.151	-0.349	0.200	0.200	0.149
RN	0.000	0.046	0.046	0.200	0.000	0.000

⌖	MM	LOC_SUPPORT_RING_N8 - CR_SUPPORT_RING_N89				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.114	-0.114	0.200	0.200	0.000
Y	1063.457	1027.386	-36.071	2000.000	2000.000	0.000
Z	0.000	0.282	0.282	0.200	0.200	0.082
R	56.500	56.126	-0.374	0.200	0.200	0.174
RN	0.000	0.145	0.145	0.200	0.000	0.000

CONCENTRICITY SUPPORT RING CIRCLES
Negative X & Positive X (left & right) (X)

◎	MM	CON_P12 - CR_SUPPORT_RING_P12 TO LINC_SUPPORT_RING_B12				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.218	0.218	0.400	0.000	0.000

◎	MM	CON_N12 - CR_SUPPORT_RING_N12 TO LINC_SUPPORT_RING_B12				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.630	0.630	0.400	0.000	0.230

◎	MM	CON_P23 - CR_SUPPORT_RING_P23 TO LINC_SUPPORT_RING_B23				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.590	0.590	0.400	0.000	0.190

◎	MM	CON_N23 - CR_SUPPORT_RING_N23 TO LINC_SUPPORT_RING_B23				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.027	0.027	0.400	0.000	0.000

◎	MM	CON_P34 - CR_SUPPORT_RING_P34 TO LINC_SUPPORT_RING_B34				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.079	0.079	0.400	0.000	0.000

◎	MM	CON_N34 - CR_SUPPORT_RING_N34 TO LINC_SUPPORT_RING_B34				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.111	0.111	0.400	0.000	0.000

◎	MM	CON_P45 - CR_SUPPORT_RING_P45 TO LINC_SUPPORT_RING_B45				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.375	0.375	0.400	0.000	0.000

◎	MM	CON_N45 - CR_SUPPORT_RING_N45 TO LINC_SUPPORT_RING_B45				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.055	0.055	0.400	0.000	0.000

◎	MM	CON_P56 - CR_SUPPORT_RING_P56 TO LINC_SUPPORT_RING_B56				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.100	0.100	0.400	0.000	0.000

◎	MM	CON_N56 - CR_SUPPORT_RING_N56 TO LINC_SUPPORT_RING_B56				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.338	0.338	0.400	0.000	0.000

◎	MM	CON_P67 - CR_SUPPORT_RING_P67 TO LINC_SUPPORT_RING_B67				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.258	0.258	0.400	0.000	0.000

◎	MM	CON_N67 - CR_SUPPORT_RING_N67 TO LINC_SUPPORT_RING_B67				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.607	0.607	0.400	0.000	0.207

◎	MM	CON_P78 - CR_SUPPORT_RING_P78 TO LINC_SUPPORT_RING_B78				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.231	0.231	0.400	0.000	0.000

◎	MM	CON_N78 - CR_SUPPORT_RING_N78 TO LINC_SUPPORT_RING_B78				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.282	0.282	0.400	0.000	0.000

◎	MM	CON_P89 - CR_SUPPORT_RING_P89 TO LINC_SUPPORT_RING_B89				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.244	0.244	0.400	0.000	0.000

◎	MM	CON_N89 - CR_SUPPORT_RING_N89 TO LINC_SUPPORT_RING_B89				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.305	0.305	0.400	0.000	0.000

↔	MM	A - PL-NEAR-END-FLANGE TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1247.400	1249.430	2.030	0.200	0.200	1.830	
↔	MM	B - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1061.060	1063.603	2.543	0.200	0.200	2.343	
↔	MM	C - PLC-DAT-1 TO CR_NW8_ANTENNA_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	32.240	32.662	0.422	0.200	0.200	0.222	
↔	MM	D - PLC-DAT-2 TO CR_NW_40_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	32.900	31.923	-0.977	0.200	0.200	-0.777	
↔	MM	E - LNC-LEVEL TO PL NW8 ANTENNA FLANGE (XAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	53.800	53.159	-0.641	0.200	0.200	-0.441	
↔	MM	F - LNC-LEVEL TO PL NW 40 FLANGE (XAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	88.000	87.182	-0.818	0.200	0.200	-0.618	
⌖	MM	G - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
T	0.000	0.000	0.000	0.000	0.000	0.000	
↔	MM	H - PL-FORMTEIL2 TO PL-NW12-FLANGE-HOM2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	28.420	28.411	-0.009	0.100	0.100	0.000	
↔	MM	I1 - PL-NEAR-END-FLANGE TO CY-HOM-1 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	60.600	60.662	0.062	0.200	0.200	0.000	
↔	MM	I2 - PL-NEAR-END-FLANGE TO CY-HOM-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1188.848	2.048	0.200	0.200	1.848	
↔	MM	I3 - PL-NEAR-END-FLANGE TO CR_NW_40_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1188.243	1.443	0.200	0.200	1.243	
∠	DEG	K - CY-HOM-1 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	30.000	31.866	1.866	0.500	0.500	1.366	
∠	DEG	L - CY-HOM-2 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	34.626	-0.374	0.500	0.500	0.000	

∡	DEG	M - LINC_AXIS_NW40 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	0.000	0.000	0.000	0.500	0.500	0.000	
⌖	MM	O1 - CR-NEAR-END-FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	140.000	140.042	0.042	0.300	0.300	0.000	
⌖	MM	O2 - CR-FAR-END					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	140.000	139.997	-0.003	0.300	0.300	0.000	
⌖	MM	P1 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.025	0.725	0.050	0.050	0.675	
⌖	MM	P2 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.009	0.708	0.050	0.050	0.658	
⌖	MM	P3 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.926	0.626	0.050	0.050	0.576	
⌖	MM	P4 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.869	0.569	0.050	0.050	0.519	
⌖	MM	P5 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.915	0.614	0.050	0.050	0.564	
⌖	MM	P6 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.952	0.651	0.050	0.050	0.601	
⌖	MM	P7 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.911	0.611	0.050	0.050	0.561	
⌖	MM	P8 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.942	0.642	0.050	0.050	0.592	
⌖	MM	P9 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.931	0.630	0.050	0.050	0.580	
⌖	MM	P10 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.937	0.637	0.050	0.050	0.587	

⌖	MM	P11 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.944	0.643	0.050	0.050	0.593	
⌖	MM	P12 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.947	0.647	0.050	0.050	0.597	
⌖	MM	P13 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.603	0.303	0.050	0.050	0.253	
⌖	MM	P14 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.948	0.648	0.050	0.050	0.598	
⌖	MM	P15 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.838	0.538	0.050	0.050	0.488	
⌖	MM	P16 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.940	0.639	0.050	0.050	0.589	
⌖	MM	P17 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.779	0.479	0.050	0.050	0.429	
⌖	MM	P18 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.843	0.543	0.050	0.050	0.493	
⌖	MM	Q1 - CR_SUPPORT_RING_P12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.458	-0.042	0.080	0.080	0.000	
⌖	MM	Q2 - CR_SUPPORT_RING_P23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.408	-0.092	0.080	0.080	0.012	
⌖	MM	Q3 - CR_SUPPORT_RING_P34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.337	-0.163	0.080	0.080	0.083	
⌖	MM	Q4 - CR_SUPPORT_RING_P45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.300	-0.200	0.080	0.080	0.120	
⌖	MM	Q5 - CR_SUPPORT_RING_P56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.278	-0.222	0.080	0.080	0.142	

⌖	MM	Q6 - CR_SUPPORT_RING_P67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.378	-0.122	0.080	0.080	0.042	
⌖	MM	Q7 - CR_SUPPORT_RING_P78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.376	-0.124	0.080	0.080	0.044	
⌖	MM	Q8 - CR_SUPPORT_RING_P89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.168	-0.332	0.080	0.080	0.252	
⌖	MM	Q9 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌖	MM	Q10 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌖	MM	Q11 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌖	MM	Q12 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌖	MM	Q13 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌖	MM	Q14 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌖	MM	Q15 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌖	MM	Q16 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌖	MM	R1 - CRC-VAC-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	191.200	210.341	19.141	0.200	0.200	18.941	
⌖	MM	R2 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	200.000	233.988	33.988	0.200	0.200	33.788	

◎	MM	U1 - CR-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.989	0.989	0.400	0.000	0.589	
◎	MM	U2 - CR-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.779	0.779	0.400	0.000	0.379	
◎	MM	U3 - CRC-CAV-1-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.337	0.337	0.400	0.000	0.000	
◎	MM	U4 - CRC-CAV-1-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.579	0.579	0.400	0.000	0.179	
◎	MM	U5 - CRC-CAV-2-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.072	1.072	0.400	0.000	0.672	
◎	MM	U6 - CRC-CAV-2-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.094	1.094	0.400	0.000	0.694	
◎	MM	U7 - CRC-CAV-3-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.834	0.834	0.400	0.000	0.434	
◎	MM	U8 - CRC-CAV-3-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.774	0.774	0.400	0.000	0.374	
◎	MM	U9 - CRC-CAV-4-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.939	0.939	0.400	0.000	0.539	
◎	MM	U10 - CRC-CAV-4-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.045	1.045	0.400	0.000	0.645	
◎	MM	U11 - CRC-CAV-5-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.353	0.353	0.400	0.000	0.000	
◎	MM	U12 - CRC-CAV-5-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.806	0.806	0.400	0.000	0.406	
◎	MM	U13 - CRC-CAV-6-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.911	0.911	0.400	0.000	0.511	

◎	MM	U14 - CRC-CAV-6-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.820	0.820	0.400	0.000	0.420	
◎	MM	U15 - CRC-CAV-7-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.756	0.756	0.400	0.000	0.356	
◎	MM	U16 - CRC-CAV-7-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.881	0.881	0.400	0.000	0.481	
◎	MM	U17 - CRC-CAV-8-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.638	0.638	0.400	0.000	0.238	
◎	MM	U18 - CRC-CAV-8-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.807	0.807	0.400	0.000	0.407	
◎	MM	U19 - CRC-CAV-9-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.473	0.473	0.400	0.000	0.073	
◎	MM	U20 - CRC-CAV-9-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.362	0.362	0.400	0.000	0.000	
◎	MM	U21 - CR_SUPPORT_RING_P12 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.771	0.771	0.400	0.000	0.371	
◎	MM	U22 - CR_SUPPORT_RING_P23 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.551	1.551	0.400	0.000	1.151	
◎	MM	U23 - CR_SUPPORT_RING_P34 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.824	0.824	0.400	0.000	0.424	
◎	MM	U24 - CR_SUPPORT_RING_P45 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.295	0.295	0.400	0.000	0.000	
◎	MM	U25 - CR_SUPPORT_RING_P56 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.951	0.951	0.400	0.000	0.551	
◎	MM	U26 - CR_SUPPORT_RING_P67 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.851	0.851	0.400	0.000	0.451	

◎	MM	U27 - CR_SUPPORT_RING_P78 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.654	0.654	0.400	0.000	0.254	
◎	MM	U28 - CR_SUPPORT_RING_P89 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.685	0.685	0.400	0.000	0.285	
◎	MM	U29 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U30 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U31 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U32 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U33 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U34 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U35 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U36 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U37 - CRC-DAT-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U38 - CRC-DAT-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U39 - CRC-VAC-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.153	0.153	0.400	0.000	0.000	

◎	MM	U40 - CRC-VAC-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.388	0.388	0.400	0.000	0.000	
⊥	MM	V1 - PL-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.503	0.503	0.200	0	0.303	
⊥	MM	V2 - PL-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.265	0.265	0.200	0	0.065	