pc-dmis	PART NAME : PN440004-n ILC 1p3GHZ RF CAVITY ASSEMBLY 000 TB9NR004 v5x IR09		May 31, 2011	10:56
	REV NUMBER :	SER NUMBER :	STATS COUNT :	1

440004-n
FNAL 1.3GHZ TESLA
RF CAVITY
ASSEMBLY
@ 000 rotation
'Inspected by ' : Robert Riley
'Cavity Number' : TB9NR006
' ' : 1105310718

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	0.007	0.007	0.200	0.000	0.000

AX	I	J	K
V	-0.007	-1.000	0.001

//	MM	PARL1 - PL-NEAR-END-FLANGE TO YMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.811	0.811	0.200	0	0.611

∠	DEG	ANGL1 - PL-NEAR-END-FLANGE TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.610	-0.390	0.100	0.100	-0.290

⌖	MM	LOC2 - CR-NEAR-END-FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-1.120	-1.120	0.200	0.200	0.920
Z	0.000	0.433	0.433	0.200	0.200	0.233
D	140.000	140.121	0.121	0.300	0.300	0.000
RN	0.000	0.045	0.045	0.200	0.000	0.000

⌗	MM	LOC3 - PL-FAR-END				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1247.400	1247.476	0.076	3.000	3.000	0.000
FL	0.000	0.012	0.012	0.200	0.000	0.000

AX	I	J	K
V	-0.014	1.000	0.001

//	MM	PARL2 - PL-FAR-END TO YPLUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	1.691	1.691	0.200	0	1.491

∠	DEG	ANGL2 - PL-FAR-END TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.201	-0.799	0.100	0.100	-0.699

⌗	MM	LOC4 - CR-FAR-END				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-1.903	-1.903	0.200	0.200	1.703
Z	0.000	0.393	0.393	0.200	0.200	0.193
D	140.000	140.132	0.132	0.300	0.300	0.000
RN	0.000	0.039	0.039	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	92.128	-0.712	0.200	0.200	0.512	
FL	0.000	0.124	0.124	0.200	0.000	0.000	
AX		I		J		K	
V		-0.007		-1.000		0.001	
//	MM	PARL5 - PLC-DAT-1 TO YMINUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.763	0.763	0.200	0	0.563	
∡	DEG	ANGL7 - PLC-DAT-1 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.577	-0.423	0.100	0.100	-0.323	

DATUM-2-PLANE

⌗	MM	LOC-DATUM-2-PLANE - PLC-DAT-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	1154.560	1155.127	0.567	0.200	0.200	0.367	
FL	0.000	0.100	0.100	0.200	0.000	0.000	
AX		I		J		K	
V		-0.012		1.000		0.000	
//	MM	PARL6 - PLC-DAT-2 TO YPLUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.979	0.979	0.200	0	0.779	
∡	DEG	ANGL8 - PLC-DAT-2 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.289	-0.711	0.100	0.100	-0.611	
↔	MM	DIST3 - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1061.060	1062.999	1.939	0.200	0.200	1.739	
↔	MM	DIST4 - PLC-DAT-2 TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	93.500	92.349	-1.151	0.200	0.200	-0.951	

PICKUP ANTENNA FLANGE NW8

⌖	MM	LOC5 - PL NW8 ANTENNA FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-53.800	-54.035	-0.235	0.200	0.200	0.035
FL	0.000	0.050	0.050	0.200	0.000	0.000

AX	I	J	K
V	-1.000	0.005	0.003

//	MM	PARL3 - PL NW8 ANTENNA FLANGE TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.176	0.176	0.200	0	0.000

∡	DEG	ANGL3 - PL NW8 ANTENNA FLANGE TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.673	-0.327	0.100	0.100	-0.227

⌖	MM	LOC6 - CR_NW8_ANTENNA_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	60.600	61.062	0.462	0.200	0.200	0.262
Z	0.000	0.297	0.297	0.200	0.200	0.097
D	33.800	33.706	-0.094	0.150	0.000	0.094
RN	0.000	0.169	0.169	0.150	0.000	0.019

MAIN COUPLER FLANGE NW40

⌖	MM	LOC7 - PL NW 40 FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	88.000	87.013	-0.987	0.200	0.200	0.787
FL	0.000	0.006	0.006	0.200	0.000	0.000

AX	I	J	K
V	0.999	0.035	-0.001

//	MM	PARL4 - PL NW 40 FLANGE TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	2.470	2.470	0.200	0	2.270

∡	DEG	ANGL4 - PL NW 40 FLANGE TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	87.977	-2.023	0.100	0.100	-1.923

⌖	MM	LOC8 - CR_NW_40_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1186.800	1189.893	3.093	0.200	0.200	2.893
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	76.000	76.120	0.120	0.200	0.000	0.000
RN	0.000	0.008	0.008	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	57.584	-3.016	0.200	0.200	-2.816

⌖	MM	TP NW40 MC BH1 - CR NW 40 FLANGE BH1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.579	-0.171					
PA	112.500	113.625	1.125					
DF	6.700	6.581	-0.119	0.200	0.200	0.000	0.000	
RN	0.000	0.023	0.023	0.200	0.000	0.000		
TP	RFS		1.290	0.300		0.990	0.000	

⌖	MM	TP NW40 MC BH2 - CR NW 40 FLANGE BH2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.534	-0.216					
PA	67.500	68.449	0.949					
DF	6.700	6.594	-0.106	0.200	0.200	0.000	0.000	
RN	0.000	0.040	0.040	0.200	0.000	0.000		
TP	RFS		1.134	0.300		0.834	0.000	

⌖	MM	TP NW40 MC BH3 - CR NW 40 FLANGE BH3						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.552	-0.198					
PA	22.500	23.278	0.778					
DF	6.700	6.607	-0.093	0.200	0.200	0.000	0.000	
RN	0.000	0.030	0.030	0.200	0.000	0.000		
TP	RFS		0.946	0.300		0.646	0.000	

⌖	MM	TP NW40 MC BH4 - CR NW 40 FLANGE BH4						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.674	-0.076					
PA	-22.500	-21.882	0.618					
DF	6.700	6.617	-0.083	0.200	0.200	0.000	0.000	
RN	0.000	0.023	0.023	0.200	0.000	0.000		
TP	RFS		0.700	0.300		0.400	0.000	

⌖	MM	TP NW40 MC BH5 - CR NW 40 FLANGE BH5						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.788	0.038					
PA	-67.500	-66.795	0.705					
DF	6.700	6.611	-0.089	0.200	0.200	0.000	0.000	
RN	0.000	0.032	0.032	0.200	0.000	0.000		
TP	RFS		0.786	0.300		0.486	0.000	

	MM	TP NW40 MC BH6 - CR NW 40 FLANGE BH6					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.818	0.068				
PA	-112.500	-111.673	0.827				
DF	6.700	6.613	-0.087	0.200	0.200	0.000	0.000
RN	0.000	0.021	0.021	0.200	0.000	0.000	
TP	RFS		0.928	0.300		0.628	0.000

	MM	TP NW40 MC BH7 - CR NW 40 FLANGE BH7					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.822	0.072				
PA	-157.500	-156.594	0.906				
DF	6.700	6.612	-0.088	0.200	0.200	0.000	0.000
RN	0.000	0.040	0.040	0.200	0.000	0.000	
TP	RFS		1.015	0.300		0.715	0.000

	MM	TP NW40 MC BH8 - CR NW 40 FLANGE BH8					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.752	0.002				
PA	157.500	158.637	1.137				
DF	6.700	6.607	-0.093	0.200	0.200	0.000	0.000
RN	0.000	0.032	0.032	0.200	0.000	0.000	
TP	RFS		1.260	0.300		0.960	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	-0.572	0.237	0.785

	DEG	ANGL6 - PL-NW12-FLANGE-HOM2 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	35.000	53.951	18.951	0.500	0.500	18.451

	MM	LOC9 - CR-NW12-FLANGE-HOM2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-73.389	-73.389	100.000	100.000	0.000
Y	0.000	1189.101	1189.101	2000.000	2000.000	0.000
Z	0.000	-9.535	-9.535	100.000	100.000	0.000
D	33.800	33.694	-0.106	0.150	0.000	0.106
RN	0.000	0.149	0.149	0.150	0.000	0.000

↔	MM	DIST FORMTEIL2 POINT - PT-FORMTEIL2 TO PL-NW12-FLANGE-HOM2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	28.420	28.508	0.088	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	28.508	0.088	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	104.312	89.312	0.500	0.500	88.812

HOM 1 LOCATION

⊕	MM	LOC-HOM1 - CY-HOM-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	68.988	68.988	100.000	100.000	0.000
Y	60.600	59.757	-0.843	0.200	0.200	0.643
Z	0.000	-39.686	-39.686	100.000	100.000	0.000
D	44.000	43.697	-0.303	0.000	0.100	0.203
RN	0.000	0.163	0.163	0.100	0.000	0.063

AX	I	J	K
V	-0.865	0.005	0.501

∠	DEG	ANGL9 - CY-HOM-1 TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	30.000	30.069	0.069	0.500	0.500	0.000

∠	DEG	ANGL10 - CY-HOM-1 TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	-90.000	-89.704	0.296	0.500	0.500	0.000

∠	DEG	ANGL11 - CY-HOM-1 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	60.000	59.931	-0.069	0.500	0.500	0.000

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	60.169	-0.431	0.200	0.200	0.231
Z	0.000	0.255	0.255	0.200	0.200	0.055

▱	MM	LOC_HOM1_FLANGE_A - PL_NW12_FLANGE_HOM1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.003	0.003	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	-0.448	-0.255	-0.857

∡	DEG	ANGL17 - PL_NW12_FLANGE_HOM1 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	15.000	106.580	91.580	0.500	0.500	91.080

⊞	MM	LOC_HOM1_FLANGE_D - CR_NW12_FLANGE_HOM1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	40.497	41.106	0.609	100.000	100.000	0.000
Y	92.086	57.139	-34.947	100.000	100.000	0.000
Z	-56.755	-58.536	-1.781	100.000	100.000	0.000
D	33.800	34.076	0.276	0.150	0.150	0.126
RN	0.000	0.154	0.154	0.150	0.000	0.004

HOM 2 LOCATION

⊞	MM	LOC-HOM2 - CY-HOM-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-65.573	-65.573	100.000	100.000	0.000
Y	1186.800	1186.440	-0.360	3.000	3.000	0.000
Z	0.000	-44.927	-44.927	100.000	100.000	0.000
D	44.000	43.246	-0.754	0.000	0.100	0.654
RN	0.000	0.668	0.668	0.100	0.000	0.568

AX	I	J	K
V	-0.816	-0.014	-0.578

↔	MM	DIST2 - CY-HOM-2 TO PL-FAR-END (YAXIS)				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	60.600	61.037	0.437	0.200	0.200	0.237

∡	DEG	ANGL12 - CY-HOM-2 TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	35.000	35.312	0.312	0.500	0.500	0.000

∡	DEG	ANGL13 - CY-HOM-2 TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	-90.000	-89.188	0.812	0.500	0.500	0.312

∡	DEG	ANGL14 - CY-HOM-2 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	55.000	54.688	-0.312	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	1187.579	0.779	3.000	3.000	0.000
Z	0.000	1.523	1.523	0.200	0.200	1.323

⌖	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	94.132	94.132	2000.000	2000.000	0.000
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	111.000	110.946	-0.054	0.050	0.050	0.004
RN	0.000	0.088	0.088	0.050	0.000	0.038

⌖	MM	LOC-CC2 - CRC-VAC-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.165	0.165	0.200	0.200	0.000
Y	158.307	122.357	-35.951	2000.000	2000.000	0.000
Z	0.000	0.010	0.010	0.200	0.200	0.000
D	211.000	210.038	-0.962	0.200	0.200	0.762
RN	0.000	0.296	0.296	0.200	0.000	0.096

⌖	MM	LOC-CC3 - CRC-CAV-1-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.496	0.496	0.200	0.200	0.296
Y	0.000	157.205	157.205	2000.000	2000.000	0.000
Z	0.000	-0.057	-0.057	0.200	0.200	0.000
D	210.300	210.638	0.338	0.200	0.200	0.138
RN	0.000	0.327	0.327	0.200	0.000	0.127

⌖	MM	LOC-CC4 - CRC-CAV-1-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.552	0.552	0.200	0.200	0.352
Y	0.000	167.670	167.670	2000.000	2000.000	0.000
Z	0.000	-0.036	-0.036	0.200	0.200	0.000
D	210.300	210.897	0.597	0.200	0.200	0.397
RN	0.000	0.227	0.227	0.200	0.000	0.027

⌖	MM	LOC-CC5 - CRC-CAV-2-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	1.340	1.340	0.200	0.200	1.140
Y	0.000	272.840	272.840	2000.000	2000.000	0.000
Z	0.000	-0.078	-0.078	0.200	0.200	0.000
D	210.300	210.955	0.655	0.200	0.200	0.455
RN	0.000	0.338	0.338	0.200	0.000	0.138

⊞	MM	LOC-CC6 - CRC-CAV-2-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	1.335	1.335	0.200	0.200	1.135
Y	0.000	282.662	282.662	2000.000	2000.000	0.000
Z	0.000	0.024	0.023	0.200	0.200	0.000
D	210.300	210.945	0.645	0.200	0.200	0.445
RN	0.000	0.365	0.365	0.200	0.000	0.165

⊞	MM	LOC-CC7 - CRC-CAV-3-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	2.170	2.170	0.200	0.200	1.970
Y	0.000	388.507	388.507	2000.000	2000.000	0.000
Z	0.000	0.237	0.237	0.200	0.200	0.037
D	210.300	210.936	0.636	0.200	0.200	0.436
RN	0.000	0.290	0.290	0.200	0.000	0.090

⊞	MM	LOC-CC8 - CRC-CAV-3-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	2.160	2.160	0.200	0.200	1.960
Y	0.000	398.340	398.340	2000.000	2000.000	0.000
Z	0.000	-0.007	-0.007	0.200	0.200	0.000
D	210.300	210.898	0.598	0.200	0.200	0.398
RN	0.000	0.401	0.401	0.200	0.000	0.201

⊞	MM	LOC-CC9 - CRC-CAV-4-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	3.064	3.063	0.200	0.200	2.863
Y	0.000	503.872	503.872	2000.000	2000.000	0.000
Z	0.000	0.103	0.103	0.200	0.200	0.000
D	210.300	210.888	0.588	0.200	0.200	0.388
RN	0.000	0.519	0.519	0.200	0.000	0.319

⊞	MM	LOC-CC10 - CRC-CAV-4-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	2.970	2.970	0.200	0.200	2.770
Y	0.000	513.729	513.729	2000.000	2000.000	0.000
Z	0.000	0.146	0.146	0.200	0.200	0.000
D	210.300	210.952	0.652	0.200	0.200	0.452
RN	0.000	0.277	0.277	0.200	0.000	0.077

⊞	MM	LOC-CC11 - CRC-CAV-5-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	3.518	3.518	0.200	0.200	3.318
Y	0.000	619.563	619.563	2000.000	2000.000	0.000
Z	0.000	0.211	0.211	0.200	0.200	0.011
D	210.300	210.935	0.635	0.200	0.200	0.435
RN	0.000	0.384	0.384	0.200	0.000	0.184

⊞	MM	LOC-CC12 - CRC-CAV-5-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	3.587	3.587	0.200	0.200	3.387
Y	0.000	629.669	629.669	2000.000	2000.000	0.000
Z	0.000	0.377	0.377	0.200	0.200	0.177
D	210.300	210.920	0.620	0.200	0.200	0.420
RN	0.000	0.418	0.418	0.200	0.000	0.218

⊞	MM	LOC-CC13 - CRC-CAV-6-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	3.796	3.796	0.200	0.200	3.596
Y	0.000	734.991	734.991	2000.000	2000.000	0.000
Z	0.000	0.625	0.625	0.200	0.200	0.425
D	210.300	210.870	0.570	0.200	0.200	0.370
RN	0.000	0.318	0.318	0.200	0.000	0.118

⊞	MM	LOC-CC14 - CRC-CAV-6-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	3.742	3.742	0.200	0.200	3.542
Y	0.000	745.753	745.753	2000.000	2000.000	0.000
Z	0.000	0.626	0.626	0.200	0.200	0.426
D	210.300	210.910	0.610	0.200	0.200	0.410
RN	0.000	0.342	0.342	0.200	0.000	0.142

⊞	MM	LOC-CC15 - CRC-CAV-7-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	3.379	3.379	0.200	0.200	3.179
Y	0.000	850.715	850.715	2000.000	2000.000	0.000
Z	0.000	0.846	0.846	0.200	0.200	0.646
D	210.300	210.899	0.599	0.200	0.200	0.399
RN	0.000	0.411	0.411	0.200	0.000	0.211

⊞	MM	LOC-CC16 - CRC-CAV-7-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	3.274	3.274	0.200	0.200	3.074
Y	0.000	861.050	861.050	2000.000	2000.000	0.000
Z	0.000	0.860	0.860	0.200	0.200	0.660
D	210.300	210.875	0.575	0.200	0.200	0.375
RN	0.000	0.250	0.250	0.200	0.000	0.050

⊞	MM	LOC-CC17 - CRC-CAV-8-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	2.597	2.597	0.200	0.200	2.397
Y	0.000	966.602	966.602	2000.000	2000.000	0.000
Z	0.000	0.863	0.863	0.200	0.200	0.663
D	210.300	210.927	0.627	0.200	0.200	0.427
RN	0.000	0.359	0.359	0.200	0.000	0.159

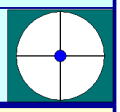
⌗	MM	LOC-CC18 - CRC-CAV-8-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	2.712	2.712	0.200	0.200	2.512
Y	0.000	976.761	976.761	2000.000	2000.000	0.000
Z	0.000	0.571	0.571	0.200	0.200	0.371
D	210.300	210.968	0.668	0.200	0.200	0.468
RN	0.000	0.285	0.285	0.200	0.000	0.085

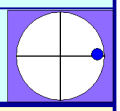
⌗	MM	LOC-CC19 - CRC-CAV-9-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	1.763	1.763	0.200	0.200	1.563
Y	0.000	1081.736	1081.736	2000.000	2000.000	0.000
Z	0.000	0.404	0.403	0.200	0.200	0.203
D	210.300	210.905	0.605	0.200	0.200	0.405
RN	0.000	0.432	0.432	0.200	0.000	0.232

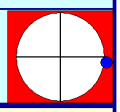
⌗	MM	LOC-CC20 - CRC-CAV-9-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.709	0.709	0.200	0.200	0.509
Y	0.000	1092.128	1092.128	2000.000	2000.000	0.000
Z	0.000	-0.004	-0.004	0.200	0.200	0.000
D	210.300	210.552	0.252	0.200	0.200	0.052
RN	0.000	0.512	0.512	0.200	0.000	0.312

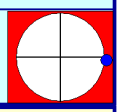
⌗	MM	LOC-CC21 - CRC-VAC-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.053	0.052	0.200	0.200	0.000
Y	1156.557	1132.703	-23.854	2000.000	2000.000	0.000
Z	0.000	0.057	0.057	0.200	0.200	0.000
D	235.000	234.716	-0.284	0.200	0.200	0.084
RN	0.000	0.291	0.291	0.200	0.000	0.091

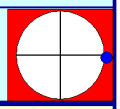
⌗	MM	LOC-CC22 - CRC-DAT-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.000	0.000	0.200	0.200	0.000
Y	0.000	1153.637	1153.637	2000.000	2000.000	0.000
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	111.000	110.871	-0.129	0.050	0.050	0.079
RN	0.000	0.045	0.045	0.050	0.000	0.000

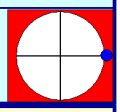
⌖	MM	LOC-TP-CC1 - CRC-DAT-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	0.000	0.000					
Z	0.000	0.000	0.000					
TP	RFS		0.000	0.400		0.000	0.000	

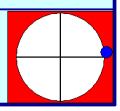
⌖	MM	LOC-TP-CC2 - CRC-VAC-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	0.165	0.165					
Z	0.000	0.010	0.010					
TP	RFS		0.331	0.400		0.000	0.000	

⌖	MM	LOC-TP-CC3 - CRC-CAV-1-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	0.496	0.496					
Z	0.000	-0.057	-0.057					
TP	RFS		0.999	0.400		0.599	0.000	

⌖	MM	LOC-TP-CC4 - CRC-CAV-1-2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	0.552	0.552					
Z	0.000	-0.036	-0.036					
TP	RFS		1.107	0.400		0.707	0.000	

⌖	MM	LOC-TP-CC5 - CRC-CAV-2-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	1.340	1.340					
Z	0.000	-0.078	-0.078					
TP	RFS		2.685	0.400		2.285	0.000	

⌖	MM	LOC-TP-CC6 - CRC-CAV-2-2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	1.335	1.335					
Z	0.000	0.024	0.023					
TP	RFS		2.670	0.400		2.270	0.000	

⌖	MM	LOC-TP-CC7 - CRC-CAV-3-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	2.170	2.170					
Z	0.000	0.237	0.237					
TP	RFS		4.365	0.400		3.965	0.000	

⌖	MM	LOC-TP-CC8 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	2.160	2.160				
Z	0.000	-0.007	-0.007				
TP	RFS		4.321	0.400		3.921	0.000

⌖	MM	LOC-TP-CC9 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	3.064	3.063				
Z	0.000	0.103	0.103				
TP	RFS		6.130	0.400		5.730	0.000

⌖	MM	LOC-TP-CC10 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	2.970	2.970				
Z	0.000	0.146	0.146				
TP	RFS		5.948	0.400		5.548	0.000

⌖	MM	LOC-TP-CC11 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	3.518	3.518				
Z	0.000	0.211	0.211				
TP	RFS		7.048	0.400		6.648	0.000

⌖	MM	LOC-TP-CC12 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	3.587	3.587				
Z	0.000	0.377	0.377				
TP	RFS		7.213	0.400		6.813	0.000

⌖	MM	LOC-TP-CC13 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	3.796	3.796				
Z	0.000	0.625	0.625				
TP	RFS		7.693	0.400		7.293	0.000

⌖	MM	LOC-TP-CC14 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	3.742	3.742				
Z	0.000	0.626	0.626				
TP	RFS		7.588	0.400		7.188	0.000

⌖	MM	LOC-TP-CC15 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	3.379	3.379				
Z	0.000	0.846	0.846				
TP	RFS		6.966	0.400		6.566	0.000

⌖	MM	LOC-TP-CC16 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	3.274	3.274				
Z	0.000	0.860	0.860				
TP	RFS		6.771	0.400		6.371	0.000

⌖	MM	LOC-TP-CC17 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	2.597	2.597				
Z	0.000	0.863	0.863				
TP	RFS		5.474	0.400		5.074	0.000

⌖	MM	LOC-TP-CC18 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	2.712	2.712				
Z	0.000	0.571	0.571				
TP	RFS		5.543	0.400		5.143	0.000

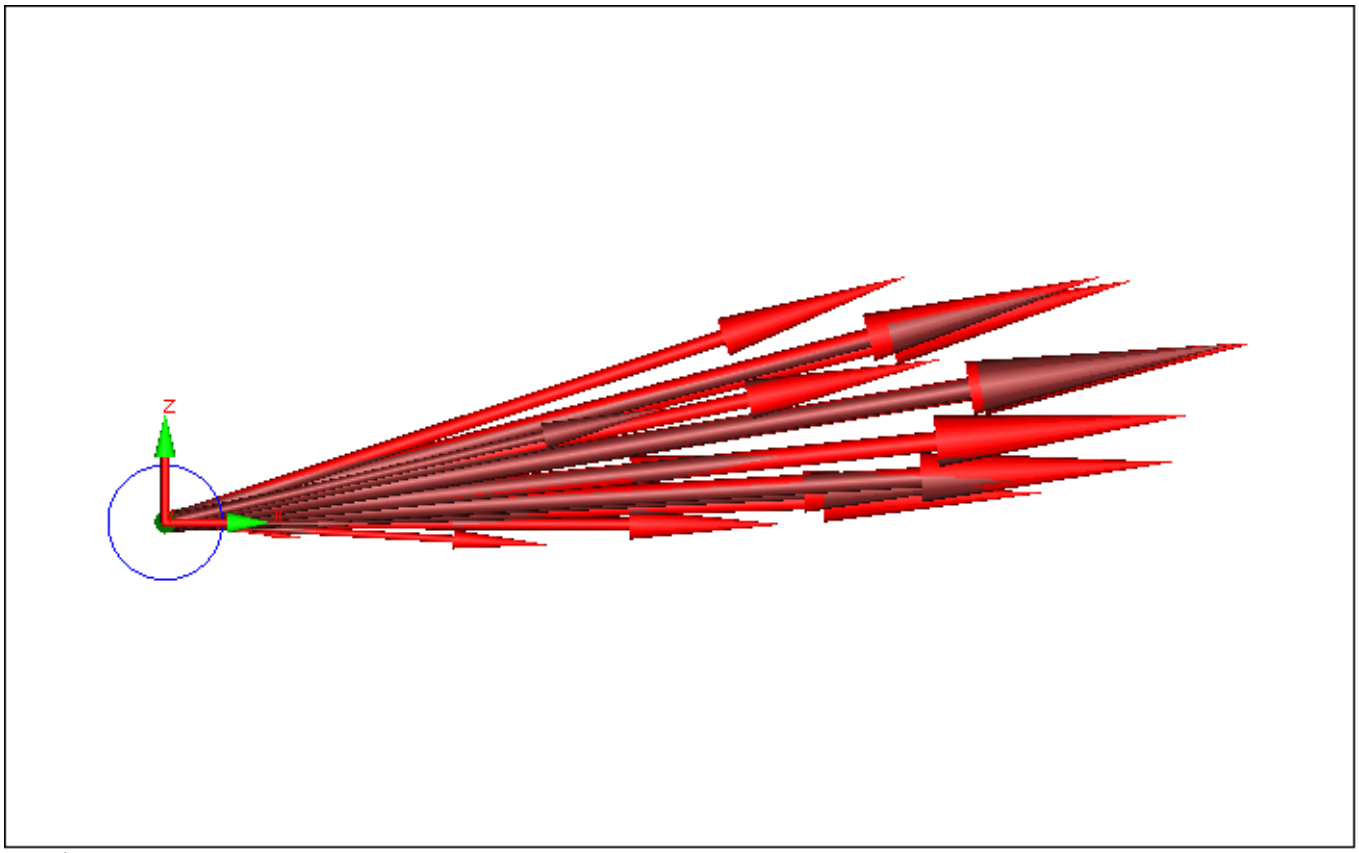
⌖	MM	LOC-TP-CC19 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	1.763	1.763				
Z	0.000	0.404	0.403				
TP	RFS		3.617	0.400		3.217	0.000

⌖	MM	LOC-TP-CC20 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.709	0.709				
Z	0.000	-0.004	-0.004				
TP	RFS		1.419	0.400		1.019	0.000

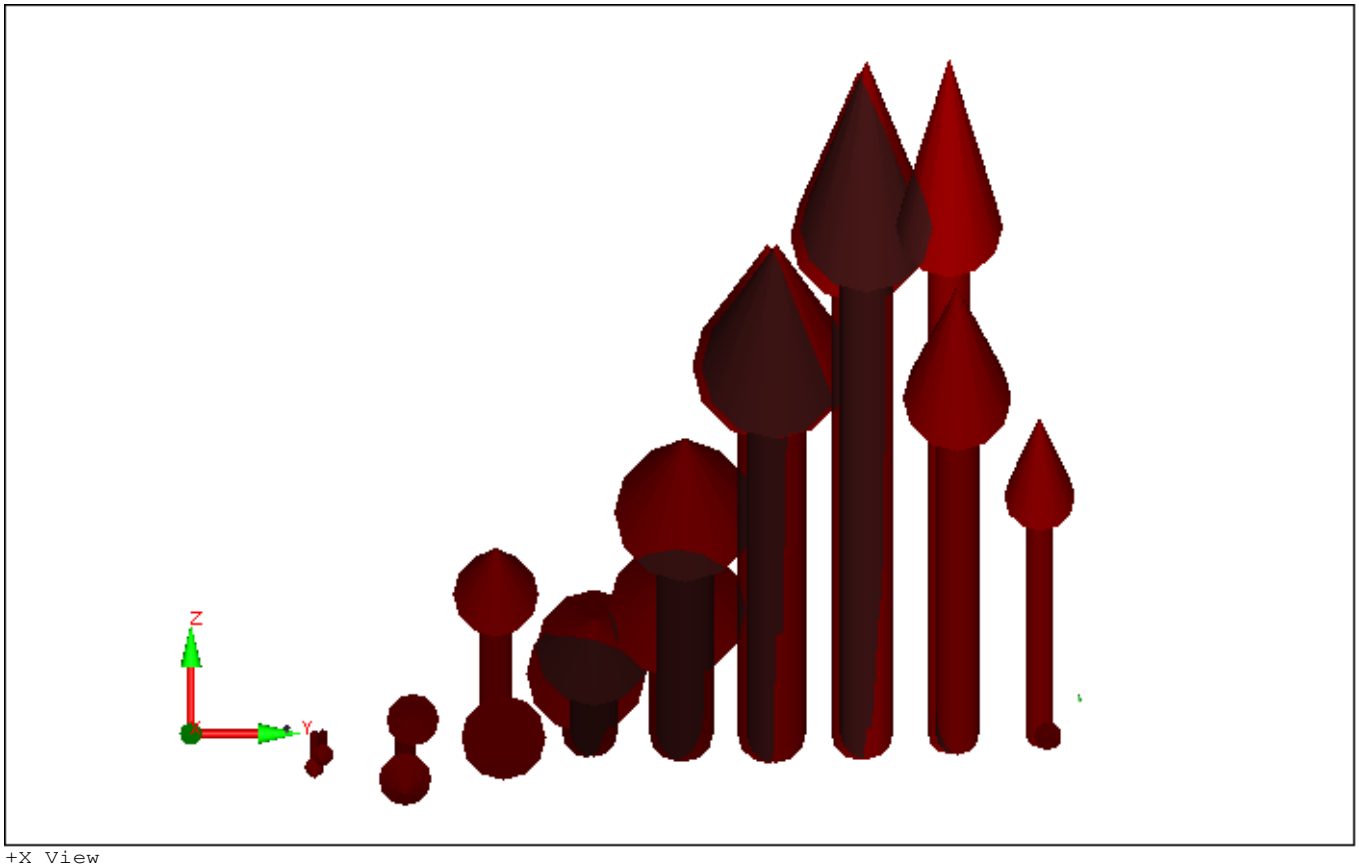
⌖	MM	LOC-TP-CC21 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.053	0.052				
Z	0.000	0.057	0.057				
TP	RFS		0.154	0.400		0.000	0.000

⌖	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	

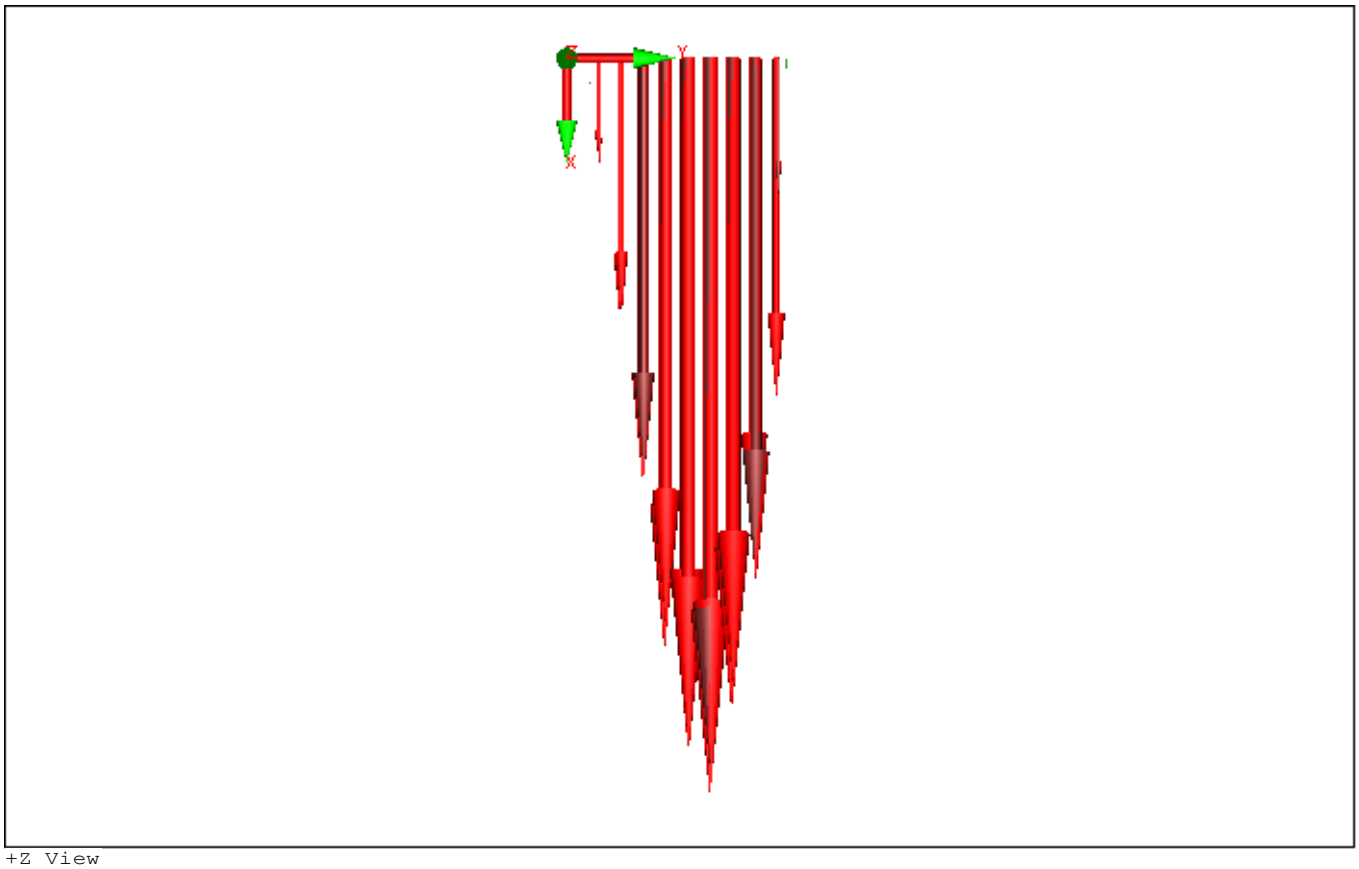
True Position plots from 3 views
x1000



-Y View
x1000



+X View
x1000



+Z View
x1000

⌗	MM	LOC-BEST FIT CONSTRUCTED LINE - LNC-BEST-FIT				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.295	1.972	1.677	0.200	0.200	1.477
Y	658.560	624.846	-33.714	2000.000	2000.000	0.000
Z	0.000	0.263	0.263	0.200	0.200	0.063
ST	0.000	4.222	4.222	0.400	0.000	3.822

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	0.708	0.708	0.200	0.200	0.508
Y	0.000	218.368	218.368	2000.000	2000.000	0.000
Z	0.000	-0.026	-0.026	0.200	0.200	0.000
R	56.500	56.520	0.020	0.200	0.200	0.000
RN	0.000	0.098	0.098	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	1.882	1.882	0.200	0.200	1.682
Y	0.000	333.975	333.975	2000.000	2000.000	0.000
Z	0.000	-0.012	-0.012	0.200	0.200	0.000
R	56.500	56.213	-0.287	0.200	0.200	0.087
RN	0.000	0.000	0.000	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	2.439	2.439	0.200	0.200	2.239
Y	0.000	448.892	448.892	2000.000	2000.000	0.000
Z	0.000	0.241	0.241	0.200	0.200	0.041
R	56.500	56.508	0.008	0.200	0.200	0.000
RN	0.000	0.075	0.075	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	3.322	3.322	0.200	0.200	3.122
Y	0.000	564.466	564.466	2000.000	2000.000	0.000
Z	0.000	0.205	0.205	0.200	0.200	0.005
R	56.500	56.264	-0.236	0.200	0.200	0.036
RN	0.000	0.035	0.035	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	3.604	3.604	0.200	0.200	3.404
Y	0.000	679.767	679.767	2000.000	2000.000	0.000
Z	0.000	0.439	0.439	0.200	0.200	0.239
R	56.500	56.333	-0.167	0.200	0.200	0.000
RN	0.000	0.050	0.050	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	3.851	3.851	0.200	0.200	3.651
Y	0.000	795.172	795.172	2000.000	2000.000	0.000
Z	0.000	0.520	0.520	0.200	0.200	0.320
R	56.500	56.285	-0.215	0.200	0.200	0.015
RN	0.000	0.104	0.104	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	3.208	3.208	0.200	0.200	3.008
Y	0.000	910.674	910.674	2000.000	2000.000	0.000
Z	0.000	0.879	0.879	0.200	0.200	0.679
R	56.500	56.241	-0.259	0.200	0.200	0.059
RN	0.000	0.221	0.221	0.200	0.000	0.021

⊞	MM	LOC-SUPPORT RING-P8 - CR_SUPPORT_RING_P89				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	2.027	2.027	0.200	0.200	1.827
Y	0.000	1026.474	1026.474	2000.000	2000.000	0.000
Z	0.000	0.627	0.627	0.200	0.200	0.427
R	56.500	56.540	0.040	0.200	0.200	0.000
RN	0.000	0.046	0.046	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	0.883	0.883	0.200	0.200	0.683
Y	255.357	218.360	-36.998	2000.000	2000.000	0.000
Z	0.000	-0.024	-0.024	0.200	0.200	0.000
R	56.500	56.187	-0.313	0.200	0.200	0.113
RN	0.000	0.026	0.026	0.200	0.000	0.000

⌗	MM	LOC_SUPPORT_RING_N2 - CR_SUPPORT_RING_N23				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	1.621	1.621	0.200	0.200	1.421
Y	370.957	333.963	-36.994	2000.000	2000.000	0.000
Z	0.000	0.082	0.082	0.200	0.200	0.000
R	56.500	56.281	-0.219	0.200	0.200	0.019
RN	0.000	0.131	0.131	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	2.640	2.640	0.200	0.200	2.440
Y	485.857	448.857	-37.000	2000.000	2000.000	0.000
Z	0.000	0.150	0.149	0.200	0.200	0.000
R	56.500	56.340	-0.160	0.200	0.200	0.000
RN	0.000	0.057	0.057	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	3.345	3.345	0.200	0.200	3.145
Y	601.457	564.463	-36.994	2000.000	2000.000	0.000
Z	0.000	0.339	0.339	0.200	0.200	0.139
R	56.500	56.350	-0.150	0.200	0.200	0.000
RN	0.000	0.122	0.122	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	3.819	3.819	0.200	0.200	3.619
Y	716.757	679.763	-36.994	2000.000	2000.000	0.000
Z	0.000	0.409	0.408	0.200	0.200	0.208
R	56.500	56.430	-0.070	0.200	0.200	0.000
RN	0.000	0.014	0.014	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	3.744	3.744	0.200	0.200	3.544
Y	832.157	795.166	-36.991	2000.000	2000.000	0.000
Z	0.000	0.774	0.774	0.200	0.200	0.574
R	56.500	56.376	-0.124	0.200	0.200	0.000
RN	0.000	0.054	0.054	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	2.902	2.902	0.200	0.200	2.702
Y	947.657	910.661	-36.996	2000.000	2000.000	0.000
Z	0.000	0.781	0.781	0.200	0.200	0.581
R	56.500	56.273	-0.227	0.200	0.200	0.027
RN	0.000	0.031	0.031	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	2.460	2.460	0.200	0.200	2.260
Y	1063.457	1026.475	-36.982	2000.000	2000.000	0.000
Z	0.000	0.629	0.629	0.200	0.200	0.429
R	56.500	56.478	-0.022	0.200	0.200	0.000
RN	0.000	0.044	0.044	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	0.452	0.452	0.400	0.000	0.052

◎	MM	CON_N12 - CR_SUPPORT_RING_N12 TO LINC_SUPPORT_RING_B12				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.118	0.118	0.400	0.000	0.000

◎	MM	CON_P23 - CR_SUPPORT_RING_P23 TO LINC_SUPPORT_RING_B23				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.399	0.399	0.400	0.000	0.000

◎	MM	CON_N23 - CR_SUPPORT_RING_N23 TO LINC_SUPPORT_RING_B23				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.254	0.254	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	0.498	0.498	0.400	0.000	0.098

◎	MM	CON_N34 - CR_SUPPORT_RING_N34 TO LINC_SUPPORT_RING_B34				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.228	0.228	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	0.187	0.187	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	0.395	0.395	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	0.199	0.199	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	0.317	0.317	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	0.699	0.699	0.400	0.000	0.299

◎	MM	CON_N67 - CR_SUPPORT_RING_N67 TO LINC_SUPPORT_RING_B67				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.357	0.357	0.400	0.000	0.000

◎	MM	CON_P78 - CR_SUPPORT_RING_P78 TO LINC_SUPPORT_RING_B78				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.506	0.506	0.400	0.000	0.106

◎	MM	CON_N78 - CR_SUPPORT_RING_N78 TO LINC_SUPPORT_RING_B78				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.194	0.194	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	0.543	0.543	0.400	0.000	0.143

◎	MM	CON_N89 - CR_SUPPORT_RING_N89 TO LINC_SUPPORT_RING_B89				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.480	0.480	0.400	0.000	0.080

↔	MM	A - PL-NEAR-END-FLANGE TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1247.400	1247.476	0.076	0.200	0.200	0.000	
↔	MM	B - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1061.060	1062.999	1.939	0.200	0.200	1.739	
↔	MM	C - PLC-DAT-1 TO CR_NW8_ANTENNA_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	32.240	31.066	-1.174	0.200	0.200	-0.974	
↔	MM	D - PLC-DAT-2 TO CR_NW_40_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	32.900	34.765	1.865	0.200	0.200	1.665	
↔	MM	E - LNC-LEVEL TO PL NW8 ANTENNA FLANGE (XAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	53.800	54.035	0.235	0.200	0.200	0.035	
↔	MM	F - LNC-LEVEL TO PL NW 40 FLANGE (XAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	88.000	87.013	-0.987	0.200	0.200	-0.787	
⌖	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	28.508	0.088	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	59.757	-0.843	0.200	0.200	-0.643	
↔	MM	I2 - PL-NEAR-END-FLANGE TO CY-HOM-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1186.440	-0.360	0.200	0.200	-0.160	
↔	MM	I3 - PL-NEAR-END-FLANGE TO CR_NW_40_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1189.893	3.093	0.200	0.200	2.893	
∠	DEG	K - CY-HOM-1 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	30.000	30.069	0.069	0.500	0.500	0.000	
∠	DEG	L - CY-HOM-2 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	35.312	0.312	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	140.121	0.121	0.300	0.300	0.000	
⌖	MM	O2 - CR-FAR-END					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	140.000	140.132	0.132	0.300	0.300	0.000	
⌖	MM	P1 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.638	0.337	0.050	0.050	0.287	
⌖	MM	P2 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.897	0.596	0.050	0.050	0.546	
⌖	MM	P3 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.955	0.655	0.050	0.050	0.605	
⌖	MM	P4 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.945	0.644	0.050	0.050	0.594	
⌖	MM	P5 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.936	0.636	0.050	0.050	0.586	
⌖	MM	P6 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.898	0.598	0.050	0.050	0.548	
⌖	MM	P7 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.888	0.587	0.050	0.050	0.537	
⌖	MM	P8 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.952	0.652	0.050	0.050	0.602	
⌖	MM	P9 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.935	0.635	0.050	0.050	0.585	
⌖	MM	P10 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.920	0.620	0.050	0.050	0.570	

⌖	MM	P11 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.870	0.569	0.050	0.050	0.519	
⌖	MM	P12 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.910	0.609	0.050	0.050	0.559	
⌖	MM	P13 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.899	0.599	0.050	0.050	0.549	
⌖	MM	P14 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.875	0.575	0.050	0.050	0.525	
⌖	MM	P15 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.927	0.626	0.050	0.050	0.576	
⌖	MM	P16 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.968	0.667	0.050	0.050	0.617	
⌖	MM	P17 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.905	0.604	0.050	0.050	0.554	
⌖	MM	P18 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.552	0.252	0.050	0.050	0.202	
⌖	MM	Q1 - CR_SUPPORT_RING_P12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.520	0.020	0.080	0.080	0.000	
⌖	MM	Q2 - CR_SUPPORT_RING_P23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.213	-0.287	0.080	0.080	0.207	
⌖	MM	Q3 - CR_SUPPORT_RING_P34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.508	0.008	0.080	0.080	0.000	
⌖	MM	Q4 - CR_SUPPORT_RING_P45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.264	-0.236	0.080	0.080	0.156	
⌖	MM	Q5 - CR_SUPPORT_RING_P56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.333	-0.167	0.080	0.080	0.087	

⌖	MM	Q6 - CR_SUPPORT_RING_P67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.285	-0.215	0.080	0.080	0.135	
⌖	MM	Q7 - CR_SUPPORT_RING_P78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.241	-0.259	0.080	0.080	0.179	
⌖	MM	Q8 - CR_SUPPORT_RING_P89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.540	0.040	0.080	0.080	0.000	
⌖	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	210.038	18.838	0.200	0.200	18.638	
⌖	MM	R2 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	200.000	234.716	34.716	0.200	0.200	34.516	

◎	MM	U1 - CR-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.402	2.402	0.400	0.000	2.002	
◎	MM	U2 - CR-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	3.886	3.886	0.400	0.000	3.486	
◎	MM	U3 - CRC-CAV-1-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.999	0.999	0.400	0.000	0.599	
◎	MM	U4 - CRC-CAV-1-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.107	1.107	0.400	0.000	0.707	
◎	MM	U5 - CRC-CAV-2-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.685	2.685	0.400	0.000	2.285	
◎	MM	U6 - CRC-CAV-2-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.670	2.670	0.400	0.000	2.270	
◎	MM	U7 - CRC-CAV-3-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	4.365	4.365	0.400	0.000	3.965	
◎	MM	U8 - CRC-CAV-3-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	4.321	4.321	0.400	0.000	3.921	
◎	MM	U9 - CRC-CAV-4-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	6.131	6.131	0.400	0.000	5.731	
◎	MM	U10 - CRC-CAV-4-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	5.948	5.948	0.400	0.000	5.548	
◎	MM	U11 - CRC-CAV-5-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	7.048	7.048	0.400	0.000	6.648	
◎	MM	U12 - CRC-CAV-5-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	7.213	7.213	0.400	0.000	6.813	
◎	MM	U13 - CRC-CAV-6-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	7.694	7.694	0.400	0.000	7.294	

◎	MM	U14 - CRC-CAV-6-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	7.589	7.589	0.400	0.000	7.189	
◎	MM	U15 - CRC-CAV-7-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	6.966	6.966	0.400	0.000	6.566	
◎	MM	U16 - CRC-CAV-7-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	6.771	6.771	0.400	0.000	6.371	
◎	MM	U17 - CRC-CAV-8-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	5.474	5.474	0.400	0.000	5.074	
◎	MM	U18 - CRC-CAV-8-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	5.544	5.544	0.400	0.000	5.144	
◎	MM	U19 - CRC-CAV-9-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	3.617	3.617	0.400	0.000	3.217	
◎	MM	U20 - CRC-CAV-9-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.419	1.419	0.400	0.000	1.019	
◎	MM	U21 - CR_SUPPORT_RING_P12 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.418	1.418	0.400	0.000	1.018	
◎	MM	U22 - CR_SUPPORT_RING_P23 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	3.765	3.765	0.400	0.000	3.365	
◎	MM	U23 - CR_SUPPORT_RING_P34 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	4.901	4.901	0.400	0.000	4.501	
◎	MM	U24 - CR_SUPPORT_RING_P45 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	6.657	6.657	0.400	0.000	6.257	
◎	MM	U25 - CR_SUPPORT_RING_P56 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	7.261	7.261	0.400	0.000	6.861	
◎	MM	U26 - CR_SUPPORT_RING_P67 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	7.773	7.773	0.400	0.000	7.373	

◎	MM	U27 - CR_SUPPORT_RING_P78 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	6.653	6.653	0.400	0.000	6.253	
◎	MM	U28 - CR_SUPPORT_RING_P89 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	4.244	4.244	0.400	0.000	3.844	
◎	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	0.331	0.331	0.400	0.000	0.000	

◎	MM	U40 - CRC-VAC-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.155	0.155	0.400	0.000	0.000	
⊥	MM	V1 - PL-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.811	0.811	0.200	0	0.611	
⊥	MM	V2 - PL-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	1.691	1.691	0.200	0	1.491	