pc-dmis	PART NAME : PN440004-n ILC 1p3GHZ RF CAVITY ASSEMBLY 000 TB9NR001 v5x IR09		December 21, 2012	14:29
	REV NUMBER :	SER NUMBER :	STATS COUNT :	1

440004-n
FNAL 1.3GHZ TESLA
RF CAVITY
ASSEMBLY
@ 000 rotation
'Inspected by ' : Robert Riley
'Cavity Number' : TB9AES023
' ' : 1212210929

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	0.055	0.055	0.200	0.000	0.000

AX	I	J	K
V	0.000	-1.000	0.002

//	MM	PARL1 - PL-NEAR-END-FLANGE TO YMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.259	0.259	0.200	0	0.059

∠	DEG	ANGL1 - PL-NEAR-END-FLANGE TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.884	-0.116	0.100	0.100	-0.016

⌖	MM	LOC2 - CR-NEAR-END-FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.060	-0.060	0.200	0.200	0.000
Z	0.000	0.220	0.220	0.200	0.200	0.020
D	140.000	139.987	-0.013	0.300	0.300	0.000
RN	0.000	0.021	0.021	0.200	0.000	0.000

⌗	MM	LOC3 - PL-FAR-END				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1247.400	1249.548	2.148	3.000	3.000	0.000
FL	0.000	0.032	0.032	0.200	0.000	0.000

AX	I	J	K
V	0.000	1.000	0.002

//	MM	PARL2 - PL-FAR-END TO YPLUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.217	0.217	0.200	0	0.017

∡	DEG	ANGL2 - PL-FAR-END TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.897	-0.103	0.100	0.100	-0.003

⌗	MM	LOC4 - CR-FAR-END				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.059	-0.059	0.200	0.200	0.000
Z	0.000	0.188	0.188	0.200	0.200	0.000
D	140.000	140.004	0.004	0.300	0.300	0.000
RN	0.000	0.013	0.013	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	92.853	0.013	0.200	0.200	0.000	
FL	0.000	0.205	0.205	0.200	0.000	0.005	
AX		I		J		K	
V		0.001		-1.000		0.003	
//	MM	PARL5 - PLC-DAT-1 TO YMINUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.475	0.475	0.200	0	0.275	
∡	DEG	ANGL7 - PLC-DAT-1 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	90.203	0.203	0.100	0.100	0.103	

DATUM-2-PLANE

⌗	MM	LOC-DATUM-2-PLANE - PLC-DAT-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	1154.560	1156.159	1.599	0.200	0.200	1.399	
FL	0.000	0.152	0.152	0.200	0.000	0.000	
AX		I		J		K	
V		0.005		1.000		0.000	
//	MM	PARL6 - PLC-DAT-2 TO YPLUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.550	0.550	0.200	0	0.350	
∡	DEG	ANGL8 - PLC-DAT-2 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.703	-0.297	0.100	0.100	-0.197	
↔	MM	DIST3 - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1061.060	1063.307	2.247	0.200	0.200	2.047	
↔	MM	DIST4 - PLC-DAT-2 TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	93.500	93.389	-0.111	0.200	0.200	0.000	

PICKUP ANTENNA FLANGE NW8

⌖	MM	LOC5 - PL NW8 ANTENNA FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-53.800	-54.422	-0.622	0.200	0.200	0.422
FL	0.000	0.005	0.005	0.200	0.000	0.000

AX	I	J	K
V	-1.000	0.000	0.010

//	MM	PARL3 - PL NW8 ANTENNA FLANGE TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.287	0.287	0.200	0	0.087

∠	DEG	ANGL3 - PL NW8 ANTENNA FLANGE TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.459	-0.541	0.100	0.100	-0.441

⌖	MM	LOC6 - CR_NW8_ANTENNA_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	60.600	60.684	0.084	0.200	0.200	0.000
Z	0.000	0.139	0.139	0.200	0.200	0.000
D	33.800	33.848	0.048	0.150	0.000	0.000
RN	0.000	0.009	0.009	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	87.906	-0.094	0.200	0.200	0.000
FL	0.000	0.036	0.036	0.200	0.000	0.000

AX	I	J	K
V	1.000	-0.005	-0.001

//	MM	PARL4 - PL NW 40 FLANGE TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.323	0.323	0.200	0	0.123

∠	DEG	ANGL4 - PL NW 40 FLANGE TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.734	-0.266	0.100	0.100	-0.166

⌖	MM	LOC8 - CR_NW_40_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1186.800	1188.810	2.010	0.200	0.200	1.810
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	76.000	76.023	0.023	0.200	0.000	0.000
RN	0.000	0.014	0.014	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	60.739	0.139	0.200	0.200	0.000

⌖	MM	TP NW40 MC BH1 - CR NW 40 FLANGE BH1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.603	-0.147					
PA	112.500	113.253	0.753					
DF	6.700	6.793	0.093	0.200	0.200	0.000	0.000	
RN	0.000	0.026	0.026	0.200	0.000	0.000		
TP	RFS		0.883	0.300		0.583	0.000	

⌖	MM	TP NW40 MC BH2 - CR NW 40 FLANGE BH2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.653	-0.097					
PA	67.500	68.152	0.652					
DF	6.700	6.799	0.099	0.200	0.200	0.000	0.000	
RN	0.000	0.020	0.020	0.200	0.000	0.000		
TP	RFS		0.747	0.300		0.447	0.000	

⌖	MM	TP NW40 MC BH3 - CR NW 40 FLANGE BH3						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.741	-0.009					
PA	22.500	23.138	0.638					
DF	6.700	6.790	0.090	0.200	0.200	0.000	0.000	
RN	0.000	0.025	0.025	0.200	0.000	0.000		
TP	RFS		0.707	0.300		0.407	0.000	

⌖	MM	TP NW40 MC BH4 - CR NW 40 FLANGE BH4						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.812	0.062					
PA	-22.500	-21.781	0.719					
DF	6.700	6.807	0.107	0.200	0.200	0.000	0.000	
RN	0.000	0.030	0.030	0.200	0.000	0.000		
TP	RFS		0.807	0.300		0.507	0.000	

⌖	MM	TP NW40 MC BH5 - CR NW 40 FLANGE BH5						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.786	0.036					
PA	-67.500	-66.665	0.835					
DF	6.700	6.789	0.089	0.200	0.200	0.000	0.000	
RN	0.000	0.030	0.030	0.200	0.000	0.000		
TP	RFS		0.929	0.300		0.629	0.000	

	MM	TP NW40 MC BH6 - CR NW 40 FLANGE BH6					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.768	0.018				
PA	-112.500	-111.539	0.961				
DF	6.700	6.785	0.085	0.200	0.200	0.000	0.000
RN	0.000	0.022	0.022	0.200	0.000	0.000	
TP	RFS		1.066	0.300		0.766	0.000

	MM	TP NW40 MC BH7 - CR NW 40 FLANGE BH7					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.676	-0.074				
PA	-157.500	-156.553	0.947				
DF	6.700	6.801	0.101	0.200	0.200	0.000	0.000
RN	0.000	0.029	0.029	0.200	0.000	0.000	
TP	RFS		1.059	0.300		0.759	0.000

	MM	TP NW40 MC BH8 - CR NW 40 FLANGE BH8					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.615	-0.135				
PA	157.500	158.373	0.873				
DF	6.700	6.802	0.102	0.200	0.200	0.000	0.000
RN	0.000	0.026	0.026	0.200	0.000	0.000	
TP	RFS		1.003	0.300		0.703	0.000

HOM-2 FLANGE NW12

	MM	FLAT4 - PL-NW12-FLANGE-HOM2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.007	0.007	0.200	0.000	0.000

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

AX	I	J	K
V	-0.565	0.252	0.786

	DEG	ANGL6 - PL-NW12-FLANGE-HOM2 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	35.000	54.263	19.263	0.500	0.500	18.763

	MM	LOC9 - CR-NW12-FLANGE-HOM2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-72.136	-72.136	100.000	100.000	0.000
Y	0.000	1192.438	1192.438	2000.000	2000.000	0.000
Z	0.000	-9.507	-9.507	100.000	100.000	0.000
D	33.800	33.770	-0.030	0.150	0.000	0.030
RN	0.000	0.056	0.056	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	28.430	0.010	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	28.428	0.008	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	104.712	89.712	0.500	0.500	89.212

HOM 1 LOCATION

⊞	MM	LOC-HOM1 - CY-HOM-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	69.595	69.595	100.000	100.000	0.000
Y	60.600	60.373	-0.227	0.200	0.200	0.027
Z	0.000	-39.760	-39.760	100.000	100.000	0.000
D	44.000	43.863	-0.137	0.000	0.100	0.037
RN	0.000	0.080	0.080	0.100	0.000	0.000

AX	I	J	K
V	-0.869	0.004	0.496

∠	DEG	ANGL9 - CY-HOM-1 TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	30.000	29.698	-0.302	0.500	0.500	0.000

∠	DEG	ANGL10 - CY-HOM-1 TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	-90.000	-89.785	0.215	0.500	0.500	0.000

∠	DEG	ANGL11 - CY-HOM-1 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	60.000	60.302	0.302	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	60.673	0.073	0.200	0.200	0.000
Z	0.000	-0.067	-0.067	0.200	0.200	0.000

▱	MM	LOC_HOM1_FLANGE_A - PL_NW12_FLANGE_HOM1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.007	0.007	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	-0.479	-0.274	-0.834

⊿	DEG	ANGL17 - PL_NW12_FLANGE_HOM1 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	15.000	108.161	93.161	0.500	0.500	92.661

⊞	MM	LOC_HOM1_FLANGE_D - CR_NW12_FLANGE_HOM1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	40.497	40.026	-0.471	100.000	100.000	0.000
Y	92.086	57.234	-34.852	100.000	100.000	0.000
Z	-56.755	-59.061	-2.306	100.000	100.000	0.000
D	33.800	33.796	-0.004	0.150	0.150	0.000
RN	0.000	0.003	0.003	0.150	0.000	0.000

HOM 2 LOCATION

⊞	MM	LOC-HOM2 - CY-HOM-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-64.339	-64.339	100.000	100.000	0.000
Y	1186.800	1189.103	2.303	3.000	3.000	0.000
Z	0.000	-46.339	-46.339	100.000	100.000	0.000
D	44.000	43.903	-0.097	0.000	0.100	0.000
RN	0.000	0.172	0.172	0.100	0.000	0.072

AX	I	J	K
V	-0.810	-0.002	-0.587

↔	MM	DIST2 - CY-HOM-2 TO PL-FAR-END (YAXIS)				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	60.600	60.446	-0.154	0.200	0.200	0.000

⊿	DEG	ANGL12 - CY-HOM-2 TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	35.000	35.966	0.966	0.500	0.500	0.466

⊿	DEG	ANGL13 - CY-HOM-2 TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	-90.000	-89.870	0.130	0.500	0.500	0.000

⊿	DEG	ANGL14 - CY-HOM-2 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	55.000	54.034	-0.966	0.500	0.500	-0.466

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	1189.283	2.483	3.000	3.000	0.000
Z	0.000	0.347	0.347	0.200	0.200	0.147

⌖	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	95.001	95.001	2000.000	2000.000	0.000
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	111.000	110.763	-0.236	0.050	0.050	0.186
RN	0.000	0.060	0.060	0.050	0.000	0.010

⌖	MM	LOC-CC2 - CRC-VAC-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.012	-0.012	0.200	0.200	0.000
Y	158.307	123.461	-34.847	2000.000	2000.000	0.000
Z	0.000	-0.128	-0.128	0.200	0.200	0.000
D	211.000	210.968	-0.032	0.200	0.200	0.000
RN	0.000	0.077	0.077	0.200	0.000	0.000

⌖	MM	LOC-CC3 - CRC-CAV-1-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.012	-0.012	0.200	0.200	0.000
Y	0.000	158.472	158.472	2000.000	2000.000	0.000
Z	0.000	-0.041	-0.041	0.200	0.200	0.000
D	210.300	211.183	0.883	0.200	0.200	0.683
RN	0.000	0.196	0.196	0.200	0.000	0.000

⌖	MM	LOC-CC4 - CRC-CAV-1-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.020	-0.020	0.200	0.200	0.000
Y	0.000	167.123	167.123	2000.000	2000.000	0.000
Z	0.000	-0.059	-0.059	0.200	0.200	0.000
D	210.300	211.124	0.824	0.200	0.200	0.624
RN	0.000	0.185	0.185	0.200	0.000	0.000

⌖	MM	LOC-CC5 - CRC-CAV-2-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.007	-0.007	0.200	0.200	0.000
Y	0.000	273.899	273.899	2000.000	2000.000	0.000
Z	0.000	-0.262	-0.262	0.200	0.200	0.062
D	210.300	211.183	0.883	0.200	0.200	0.683
RN	0.000	0.212	0.212	0.200	0.000	0.012

⊞	MM	LOC-CC6 - CRC-CAV-2-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.027	0.027	0.200	0.200	0.000
Y	0.000	282.418	282.418	2000.000	2000.000	0.000
Z	0.000	-0.238	-0.238	0.200	0.200	0.038
D	210.300	211.077	0.777	0.200	0.200	0.577
RN	0.000	0.211	0.211	0.200	0.000	0.011

⊞	MM	LOC-CC7 - CRC-CAV-3-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.001	-0.001	0.200	0.200	0.000
Y	0.000	389.676	389.676	2000.000	2000.000	0.000
Z	0.000	-0.362	-0.362	0.200	0.200	0.162
D	210.300	211.159	0.859	0.200	0.200	0.659
RN	0.000	0.169	0.169	0.200	0.000	0.000

⊞	MM	LOC-CC8 - CRC-CAV-3-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.000	0.000	0.200	0.200	0.000
Y	0.000	398.210	398.210	2000.000	2000.000	0.000
Z	0.000	-0.353	-0.353	0.200	0.200	0.153
D	210.300	211.065	0.765	0.200	0.200	0.565
RN	0.000	0.259	0.259	0.200	0.000	0.059

⊞	MM	LOC-CC9 - CRC-CAV-4-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.020	0.020	0.200	0.200	0.000
Y	0.000	505.429	505.429	2000.000	2000.000	0.000
Z	0.000	-0.460	-0.460	0.200	0.200	0.260
D	210.300	211.105	0.805	0.200	0.200	0.605
RN	0.000	0.218	0.218	0.200	0.000	0.018

⊞	MM	LOC-CC10 - CRC-CAV-4-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.021	-0.021	0.200	0.200	0.000
Y	0.000	513.455	513.455	2000.000	2000.000	0.000
Z	0.000	-0.469	-0.469	0.200	0.200	0.269
D	210.300	211.078	0.778	0.200	0.200	0.578
RN	0.000	0.230	0.230	0.200	0.000	0.030

⊞	MM	LOC-CC11 - CRC-CAV-5-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.053	-0.053	0.200	0.200	0.000
Y	0.000	621.023	621.023	2000.000	2000.000	0.000
Z	0.000	-0.512	-0.512	0.200	0.200	0.312
D	210.300	211.147	0.847	0.200	0.200	0.647
RN	0.000	0.213	0.213	0.200	0.000	0.013

⌖	MM	LOC-CC12 - CRC-CAV-5-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.047	-0.047	0.200	0.200	0.000
Y	0.000	629.437	629.437	2000.000	2000.000	0.000
Z	0.000	-0.537	-0.537	0.200	0.200	0.337
D	210.300	211.089	0.789	0.200	0.200	0.589
RN	0.000	0.174	0.174	0.200	0.000	0.000

⌖	MM	LOC-CC13 - CRC-CAV-6-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.102	-0.103	0.200	0.200	0.000
Y	0.000	736.500	736.500	2000.000	2000.000	0.000
Z	0.000	-0.547	-0.548	0.200	0.200	0.348
D	210.300	211.189	0.889	0.200	0.200	0.689
RN	0.000	0.202	0.202	0.200	0.000	0.002

⌖	MM	LOC-CC14 - CRC-CAV-6-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.061	-0.061	0.200	0.200	0.000
Y	0.000	744.971	744.971	2000.000	2000.000	0.000
Z	0.000	-0.497	-0.497	0.200	0.200	0.297
D	210.300	211.067	0.767	0.200	0.200	0.567
RN	0.000	0.233	0.233	0.200	0.000	0.033

⌖	MM	LOC-CC15 - CRC-CAV-7-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.047	-0.047	0.200	0.200	0.000
Y	0.000	852.275	852.275	2000.000	2000.000	0.000
Z	0.000	-0.410	-0.410	0.200	0.200	0.210
D	210.300	211.156	0.856	0.200	0.200	0.656
RN	0.000	0.228	0.228	0.200	0.000	0.028

⌖	MM	LOC-CC16 - CRC-CAV-7-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.074	-0.074	0.200	0.200	0.000
Y	0.000	861.046	861.046	2000.000	2000.000	0.000
Z	0.000	-0.413	-0.413	0.200	0.200	0.213
D	210.300	211.072	0.771	0.200	0.200	0.571
RN	0.000	0.162	0.162	0.200	0.000	0.000

⌖	MM	LOC-CC17 - CRC-CAV-8-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.050	-0.050	0.200	0.200	0.000
Y	0.000	967.725	967.725	2000.000	2000.000	0.000
Z	0.000	-0.253	-0.253	0.200	0.200	0.053
D	210.300	211.202	0.902	0.200	0.200	0.702
RN	0.000	0.172	0.172	0.200	0.000	0.000

⌗	MM	LOC-CC18 - CRC-CAV-8-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.075	-0.075	0.200	0.200	0.000
Y	0.000	976.294	976.294	2000.000	2000.000	0.000
Z	0.000	-0.309	-0.309	0.200	0.200	0.109
D	210.300	211.077	0.777	0.200	0.200	0.577
RN	0.000	0.154	0.154	0.200	0.000	0.000

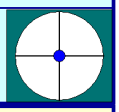
⌗	MM	LOC-CC19 - CRC-CAV-9-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.161	-0.161	0.200	0.200	0.000
Y	0.000	1083.501	1083.501	2000.000	2000.000	0.000
Z	0.000	-0.111	-0.111	0.200	0.200	0.000
D	210.300	211.143	0.843	0.200	0.200	0.643
RN	0.000	0.212	0.212	0.200	0.000	0.012

⌗	MM	LOC-CC20 - CRC-CAV-9-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.059	-0.059	0.200	0.200	0.000
Y	0.000	1092.111	1092.111	2000.000	2000.000	0.000
Z	0.000	-0.123	-0.123	0.200	0.200	0.000
D	210.300	211.086	0.786	0.200	0.200	0.586
RN	0.000	0.229	0.229	0.200	0.000	0.029

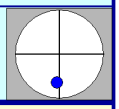
⌗	MM	LOC-CC21 - CRC-VAC-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.142	-0.142	0.200	0.200	0.000
Y	1156.557	1124.838	-31.719	2000.000	2000.000	0.000
Z	0.000	0.008	0.008	0.200	0.200	0.000
D	235.000	239.937	4.937	0.200	0.200	4.737
RN	0.000	0.057	0.057	0.200	0.000	0.000

⌗	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	1154.082	1154.082	2000.000	2000.000	0.000
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	111.000	110.816	-0.183	0.050	0.050	0.133
RN	0.000	0.048	0.048	0.050	0.000	0.000

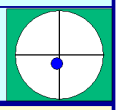
⌖	MM	LOC-TP-CC1 - CRC-DAT-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.000	0.000				
Z	0.000	0.000	0.000				
TP	RFS		0.000	0.400		0.000	0.000



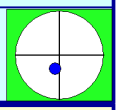
⌖	MM	LOC-TP-CC2 - CRC-VAC-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.012	-0.012				
Z	0.000	-0.128	-0.128				
TP	RFS		0.257	0.400		0.000	0.000



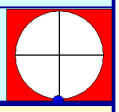
⌖	MM	LOC-TP-CC3 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.012	-0.012				
Z	0.000	-0.041	-0.041				
TP	RFS		0.086	0.400		0.000	0.000



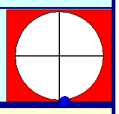
⌖	MM	LOC-TP-CC4 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.020	-0.020				
Z	0.000	-0.059	-0.059				
TP	RFS		0.125	0.400		0.000	0.000



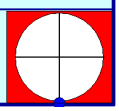
⌖	MM	LOC-TP-CC5 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.007	-0.007				
Z	0.000	-0.262	-0.262				
TP	RFS		0.525	0.400		0.125	0.000



⌖	MM	LOC-TP-CC6 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.027	0.027				
Z	0.000	-0.238	-0.238				
TP	RFS		0.479	0.400		0.079	0.000



⌖	MM	LOC-TP-CC7 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.001	-0.001				
Z	0.000	-0.362	-0.362				
TP	RFS		0.723	0.400		0.323	0.000



⌖	MM	LOC-TP-CC8 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.000	0.000				
Z	0.000	-0.353	-0.353				
TP	RFS		0.706	0.400		0.306	0.000

⌖	MM	LOC-TP-CC9 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.020	0.020				
Z	0.000	-0.460	-0.460				
TP	RFS		0.920	0.400		0.520	0.000

⌖	MM	LOC-TP-CC10 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.021	-0.021				
Z	0.000	-0.469	-0.469				
TP	RFS		0.939	0.400		0.539	0.000

⌖	MM	LOC-TP-CC11 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.053	-0.053				
Z	0.000	-0.512	-0.512				
TP	RFS		1.030	0.400		0.630	0.000

⌖	MM	LOC-TP-CC12 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.047	-0.047				
Z	0.000	-0.537	-0.537				
TP	RFS		1.079	0.400		0.679	0.000

⌖	MM	LOC-TP-CC13 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.102	-0.103				
Z	0.000	-0.547	-0.548				
TP	RFS		1.114	0.400		0.714	0.000

⌖	MM	LOC-TP-CC14 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.061	-0.061				
Z	0.000	-0.497	-0.497				
TP	RFS		1.002	0.400		0.602	0.000

⌖	MM	LOC-TP-CC15 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.047	-0.047				
Z	0.000	-0.410	-0.410				
TP	RFS		0.825	0.400		0.425	0.000

⌖	MM	LOC-TP-CC16 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.074	-0.074				
Z	0.000	-0.413	-0.413				
TP	RFS		0.839	0.400		0.439	0.000

⌖	MM	LOC-TP-CC17 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.050	-0.050				
Z	0.000	-0.253	-0.253				
TP	RFS		0.515	0.400		0.115	0.000

⌖	MM	LOC-TP-CC18 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.075	-0.075				
Z	0.000	-0.309	-0.309				
TP	RFS		0.636	0.400		0.236	0.000

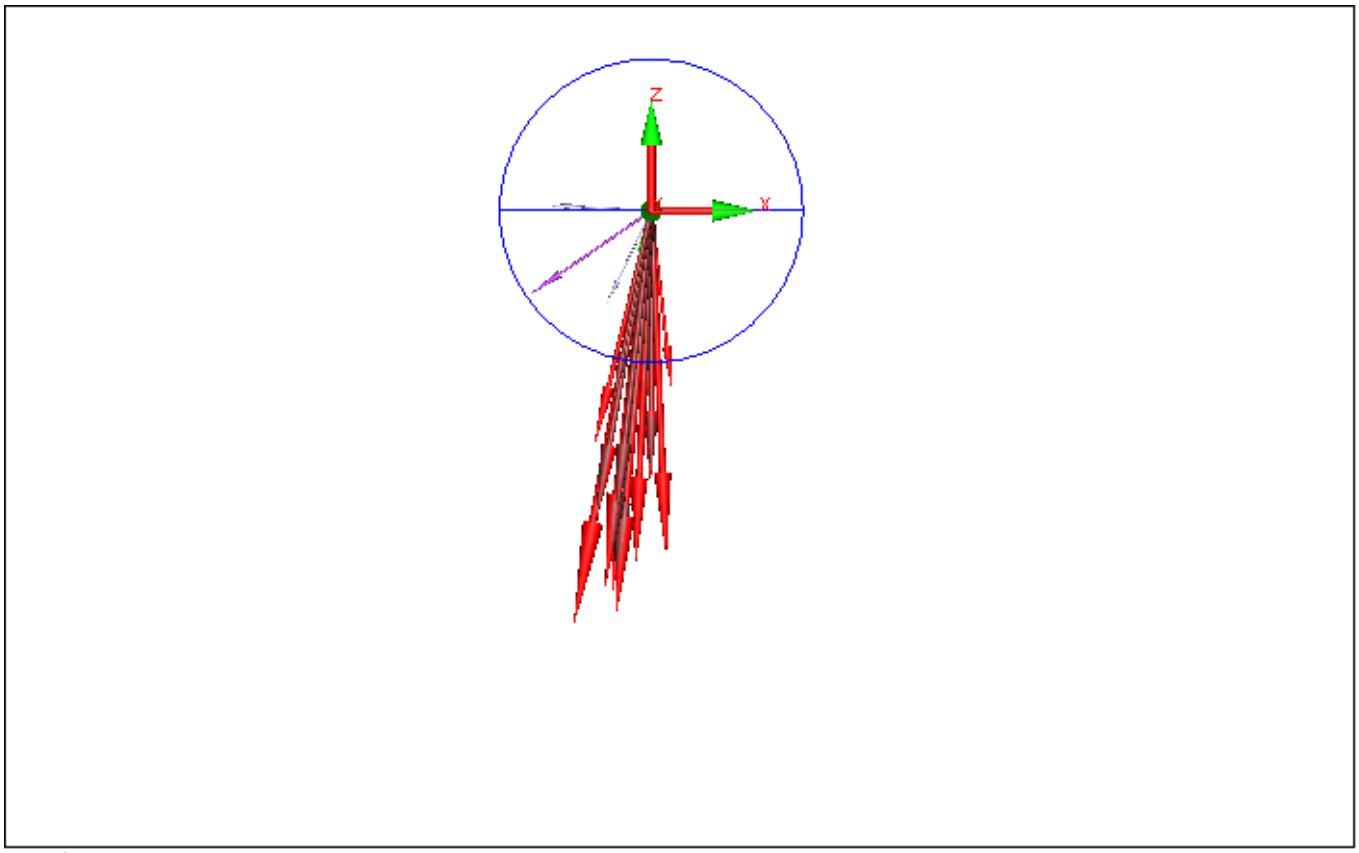
⌖	MM	LOC-TP-CC19 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.161	-0.161				
Z	0.000	-0.111	-0.111				
TP	RFS		0.390	0.400		0.000	0.000

⌖	MM	LOC-TP-CC20 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.059	-0.059				
Z	0.000	-0.123	-0.123				
TP	RFS		0.273	0.400		0.000	0.000

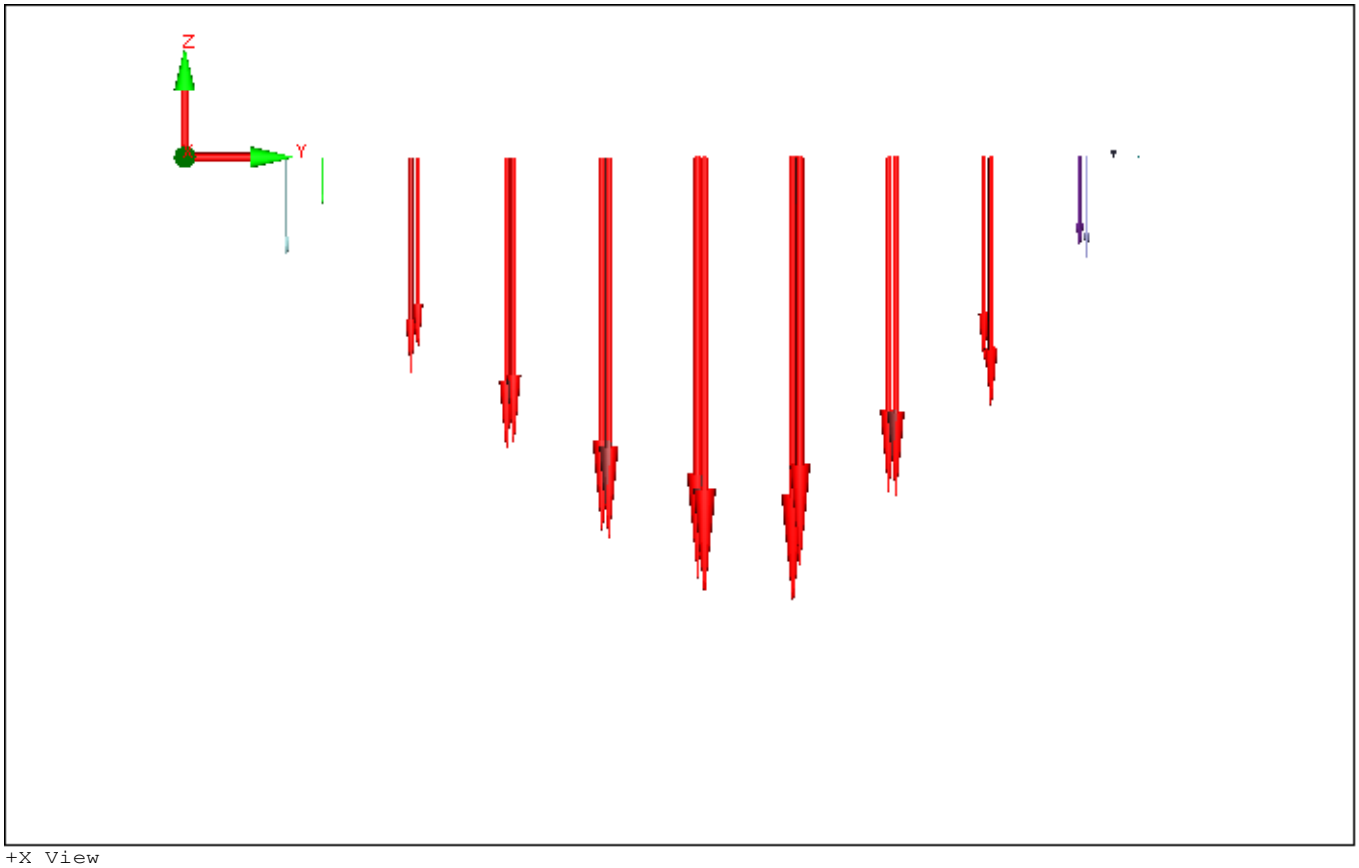
⌖	MM	LOC-TP-CC21 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.142	-0.142				
Z	0.000	0.008	0.008				
TP	RFS		0.284	0.400		0.000	0.000

⌖	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



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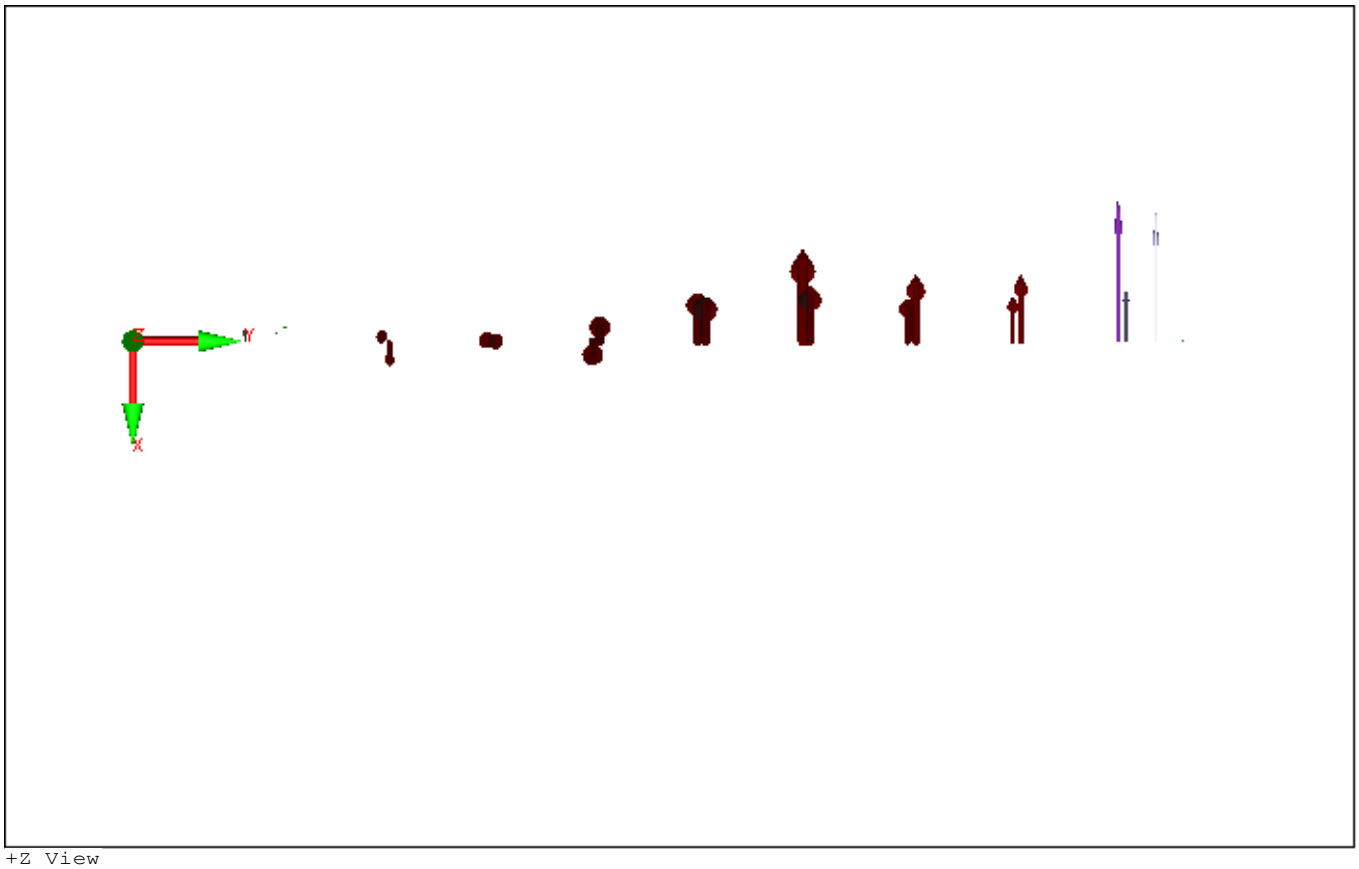

+Z View
x1000

⌗	MM	LOC-BEST FIT CONSTRUCTED LINE - LNC-BEST-FIT				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.295	-0.041	-0.336	0.200	0.200	0.136
Y	658.560	625.043	-33.517	2000.000	2000.000	0.000
Z	0.000	-0.276	-0.276	0.200	0.200	0.076
ST	0.000	0.575	0.575	0.400	0.000	0.175

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	0.648	0.648	0.200	0.200	0.448
Y	0.000	219.142	219.142	2000.000	2000.000	0.000
Z	0.000	-0.170	-0.170	0.200	0.200	0.000
R	56.500	56.402	-0.098	0.200	0.200	0.000
RN	0.000	0.256	0.256	0.200	0.000	0.056

⌗	MM	LOC-SUPPORT RING-P2 - CR_SUPPORT_RING_P23				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.208	0.208	0.200	0.200	0.008
Y	0.000	334.739	334.739	2000.000	2000.000	0.000
Z	0.000	-0.348	-0.348	0.200	0.200	0.148
R	56.500	56.571	0.071	0.200	0.200	0.000
RN	0.000	0.161	0.161	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	0.174	0.174	0.200	0.200	0.000
Y	0.000	449.634	449.634	2000.000	2000.000	0.000
Z	0.000	-0.677	-0.677	0.200	0.200	0.477
R	56.500	56.619	0.119	0.200	0.200	0.000
RN	0.000	0.088	0.088	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	0.066	0.066	0.200	0.200	0.000
Y	0.000	565.232	565.232	2000.000	2000.000	0.000
Z	0.000	-0.746	-0.746	0.200	0.200	0.546
R	56.500	56.465	-0.035	0.200	0.200	0.000
RN	0.000	0.097	0.097	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	0.014	0.014	0.200	0.200	0.000
Y	0.000	680.538	680.538	2000.000	2000.000	0.000
Z	0.000	-0.462	-0.462	0.200	0.200	0.262
R	56.500	56.460	-0.040	0.200	0.200	0.000
RN	0.000	0.016	0.016	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	-0.327	-0.327	0.200	0.200	0.127
Y	0.000	795.939	795.939	2000.000	2000.000	0.000
Z	0.000	-0.571	-0.571	0.200	0.200	0.371
R	56.500	56.561	0.061	0.200	0.200	0.000
RN	0.000	0.051	0.051	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	-0.158	-0.158	0.200	0.200	0.000
Y	0.000	911.436	911.436	2000.000	2000.000	0.000
Z	0.000	-0.412	-0.412	0.200	0.200	0.212
R	56.500	56.396	-0.104	0.200	0.200	0.000
RN	0.000	0.023	0.023	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	-0.063	-0.063	0.200	0.200	0.000
Y	0.000	1027.232	1027.232	2000.000	2000.000	0.000
Z	0.000	-0.378	-0.378	0.200	0.200	0.178
R	56.500	56.409	-0.091	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	0.140	0.140	0.200	0.200	0.000
Y	255.357	219.124	-36.234	2000.000	2000.000	0.000
Z	0.000	-0.150	-0.150	0.200	0.200	0.000
R	56.500	56.497	-0.003	0.200	0.200	0.000
RN	0.000	0.044	0.044	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	0.248	0.248	0.200	0.200	0.048
Y	370.957	334.725	-36.232	2000.000	2000.000	0.000
Z	0.000	-0.314	-0.315	0.200	0.200	0.115
R	56.500	56.484	-0.016	0.200	0.200	0.000
RN	0.000	0.026	0.026	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	0.046	0.046	0.200	0.200	0.000
Y	485.857	449.623	-36.234	2000.000	2000.000	0.000
Z	0.000	-0.540	-0.540	0.200	0.200	0.340
R	56.500	56.610	0.110	0.200	0.200	0.000
RN	0.000	0.133	0.133	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	-0.279	-0.279	0.200	0.200	0.079
Y	601.457	565.224	-36.233	2000.000	2000.000	0.000
Z	0.000	-0.673	-0.673	0.200	0.200	0.473
R	56.500	56.414	-0.086	0.200	0.200	0.000
RN	0.000	0.079	0.079	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	0.262	0.261	0.200	0.200	0.061
Y	716.757	680.525	-36.232	2000.000	2000.000	0.000
Z	0.000	-0.474	-0.474	0.200	0.200	0.274
R	56.500	56.453	-0.047	0.200	0.200	0.000
RN	0.000	0.071	0.071	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	-0.705	-0.705	0.200	0.200	0.505
Y	832.157	795.924	-36.233	2000.000	2000.000	0.000
Z	0.000	-0.552	-0.552	0.200	0.200	0.352
R	56.500	56.336	-0.164	0.200	0.200	0.000
RN	0.000	0.058	0.058	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	-0.780	-0.780	0.200	0.200	0.580
Y	947.657	911.428	-36.229	2000.000	2000.000	0.000
Z	0.000	-0.477	-0.477	0.200	0.200	0.277
R	56.500	56.271	-0.229	0.200	0.200	0.029
RN	0.000	0.034	0.034	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	-0.609	-0.609	0.200	0.200	0.409
Y	1063.457	1027.223	-36.234	2000.000	2000.000	0.000
Z	0.000	-0.459	-0.459	0.200	0.200	0.259
R	56.500	56.464	-0.036	0.200	0.200	0.000
RN	0.000	0.236	0.236	0.200	0.000	0.036

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	1.323	1.323	0.400	0.000	0.923

◎	MM	CON_N12 - CR_SUPPORT_RING_N12 TO LINC_SUPPORT_RING_B12				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.308	0.308	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	0.403	0.403	0.400	0.000	0.003

◎	MM	CON_N23 - CR_SUPPORT_RING_N23 TO LINC_SUPPORT_RING_B23				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.470	0.470	0.400	0.000	0.070

◎	MM	CON_P34 - CR_SUPPORT_RING_P34 TO LINC_SUPPORT_RING_B34				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.637	0.637	0.400	0.000	0.237

◎	MM	CON_N34 - CR_SUPPORT_RING_N34 TO LINC_SUPPORT_RING_B34				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.281	0.281	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	0.552	0.552	0.400	0.000	0.152

◎	MM	CON_N45 - CR_SUPPORT_RING_N45 TO LINC_SUPPORT_RING_B45				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.609	0.609	0.400	0.000	0.209

◎	MM	CON_P56 - CR_SUPPORT_RING_P56 TO LINC_SUPPORT_RING_B56				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.238	0.238	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	0.683	0.683	0.400	0.000	0.283

◎	MM	CON_P67 - CR_SUPPORT_RING_P67 TO LINC_SUPPORT_RING_B67				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.592	0.592	0.400	0.000	0.192

◎	MM	CON_N67 - CR_SUPPORT_RING_N67 TO LINC_SUPPORT_RING_B67				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.314	1.314	0.400	0.000	0.914

◎	MM	CON_P78 - CR_SUPPORT_RING_P78 TO LINC_SUPPORT_RING_B78				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.243	0.243	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	1.462	1.462	0.400	0.000	1.062

◎	MM	CON_P89 - CR_SUPPORT_RING_P89 TO LINC_SUPPORT_RING_B89				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.343	0.343	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	1.100	1.100	0.400	0.000	0.700

↔	MM	A - PL-NEAR-END-FLANGE TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1247.400	1249.548	2.148	0.200	0.200	1.948	
↔	MM	B - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1061.060	1063.307	2.247	0.200	0.200	2.047	
↔	MM	C - PLC-DAT-1 TO CR_NW8_ANTENNA_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	32.240	32.169	-0.071	0.200	0.200	0.000	
↔	MM	D - PLC-DAT-2 TO CR_NW_40_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	32.900	32.651	-0.249	0.200	0.200	-0.049	
↔	MM	E - LNC-LEVEL TO PL NW8 ANTENNA FLANGE (XAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	53.800	54.422	0.622	0.200	0.200	0.422	
↔	MM	F - LNC-LEVEL TO PL NW 40 FLANGE (XAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	88.000	87.906	-0.094	0.200	0.200	0.000	
⌖	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	28.428	0.008	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	60.373	-0.227	0.200	0.200	-0.027	
↔	MM	I2 - PL-NEAR-END-FLANGE TO CY-HOM-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1189.103	2.303	0.200	0.200	2.103	
↔	MM	I3 - PL-NEAR-END-FLANGE TO CR_NW_40_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1188.810	2.010	0.200	0.200	1.810	
∡	DEG	K - CY-HOM-1 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	30.000	29.698	-0.302	0.500	0.500	0.000	
∡	DEG	L - CY-HOM-2 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	35.966	0.966	0.500	0.500	0.466	

∡	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	139.987	-0.013	0.300	0.300	0.000	
⌖	MM	O2 - CR-FAR-END					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	140.000	140.004	0.004	0.300	0.300	0.000	
⌖	MM	P1 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.183	0.882	0.050	0.050	0.832	
⌖	MM	P2 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.124	0.824	0.050	0.050	0.774	
⌖	MM	P3 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.183	0.883	0.050	0.050	0.833	
⌖	MM	P4 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.077	0.777	0.050	0.050	0.727	
⌖	MM	P5 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.159	0.858	0.050	0.050	0.808	
⌖	MM	P6 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.065	0.765	0.050	0.050	0.715	
⌖	MM	P7 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.105	0.805	0.050	0.050	0.755	
⌖	MM	P8 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.078	0.778	0.050	0.050	0.728	
⌖	MM	P9 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.147	0.847	0.050	0.050	0.797	
⌖	MM	P10 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.089	0.789	0.050	0.050	0.739	

⌖	MM	P11 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.189	0.889	0.050	0.050	0.839	
⌖	MM	P12 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.067	0.767	0.050	0.050	0.717	
⌖	MM	P13 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.156	0.856	0.050	0.050	0.806	
⌖	MM	P14 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.072	0.771	0.050	0.050	0.721	
⌖	MM	P15 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.202	0.901	0.050	0.050	0.851	
⌖	MM	P16 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.077	0.776	0.050	0.050	0.726	
⌖	MM	P17 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.143	0.843	0.050	0.050	0.793	
⌖	MM	P18 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.086	0.786	0.050	0.050	0.736	
⌖	MM	Q1 - CR_SUPPORT_RING_P12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.402	-0.098	0.080	0.080	0.018	
⌖	MM	Q2 - CR_SUPPORT_RING_P23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.571	0.071	0.080	0.080	0.000	
⌖	MM	Q3 - CR_SUPPORT_RING_P34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.619	0.119	0.080	0.080	0.039	
⌖	MM	Q4 - CR_SUPPORT_RING_P45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.465	-0.035	0.080	0.080	0.000	
⌖	MM	Q5 - CR_SUPPORT_RING_P56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.460	-0.040	0.080	0.080	0.000	

⌖	MM	Q6 - CR_SUPPORT_RING_P67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.561	0.061	0.080	0.080	0.000	
⌖	MM	Q7 - CR_SUPPORT_RING_P78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.396	-0.104	0.080	0.080	0.024	
⌖	MM	Q8 - CR_SUPPORT_RING_P89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.409	-0.091	0.080	0.080	0.011	
⌖	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	210.968	19.768	0.200	0.200	19.568	
⌖	MM	R2 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	200.000	239.937	39.937	0.200	0.200	39.737	

◎	MM	U1 - CR-NEAR-END-FLANGE TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.456	0.456	0.400	0.000	0.056

◎	MM	U2 - CR-FAR-END TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.394	0.394	0.400	0.000	0.000

◎	MM	U3 - CRC-CAV-1-1 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.086	0.086	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	0.125	0.125	0.400	0.000	0.000

◎	MM	U5 - CRC-CAV-2-1 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.525	0.525	0.400	0.000	0.125

◎	MM	U6 - CRC-CAV-2-2 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.479	0.479	0.400	0.000	0.079

◎	MM	U7 - CRC-CAV-3-1 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.723	0.723	0.400	0.000	0.323

◎	MM	U8 - CRC-CAV-3-2 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.706	0.706	0.400	0.000	0.306

◎	MM	U9 - CRC-CAV-4-1 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.920	0.920	0.400	0.000	0.520

◎	MM	U10 - CRC-CAV-4-2 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.938	0.938	0.400	0.000	0.538

◎	MM	U11 - CRC-CAV-5-1 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.030	1.030	0.400	0.000	0.630

◎	MM	U12 - CRC-CAV-5-2 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.078	1.078	0.400	0.000	0.678

◎	MM	U13 - CRC-CAV-6-1 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.114	1.114	0.400	0.000	0.714

◎	MM	U14 - CRC-CAV-6-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.002	1.002	0.400	0.000	0.602	
◎	MM	U15 - CRC-CAV-7-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.825	0.825	0.400	0.000	0.425	
◎	MM	U16 - CRC-CAV-7-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.839	0.839	0.400	0.000	0.439	
◎	MM	U17 - CRC-CAV-8-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.515	0.515	0.400	0.000	0.115	
◎	MM	U18 - CRC-CAV-8-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.636	0.636	0.400	0.000	0.236	
◎	MM	U19 - CRC-CAV-9-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.390	0.390	0.400	0.000	0.000	
◎	MM	U20 - CRC-CAV-9-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.273	0.273	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	1.340	1.340	0.400	0.000	0.940	
◎	MM	U22 - CR_SUPPORT_RING_P23 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.811	0.811	0.400	0.000	0.411	
◎	MM	U23 - CR_SUPPORT_RING_P34 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.398	1.398	0.400	0.000	0.998	
◎	MM	U24 - CR_SUPPORT_RING_P45 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.497	1.497	0.400	0.000	1.097	
◎	MM	U25 - CR_SUPPORT_RING_P56 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.924	0.924	0.400	0.000	0.524	
◎	MM	U26 - CR_SUPPORT_RING_P67 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.316	1.316	0.400	0.000	0.916	

◎	MM	U27 - CR_SUPPORT_RING_P78 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.882	0.882	0.400	0.000	0.482

◎	MM	U28 - CR_SUPPORT_RING_P89 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.766	0.766	0.400	0.000	0.366

◎	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	0.257	0.257	0.400	0.000	0.000

◎	MM	U40 - CRC-VAC-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.284	0.284	0.400	0.000	0.000	
⊥	MM	V1 - PL-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.259	0.259	0.200	0	0.059	
⊥	MM	V2 - PL-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.217	0.217	0.200	0	0.017	