pc-dmis	PART NAME : PN440004-n ILC 1p3GHZ RF CAVITY ASSEMBLY 000 TB9NR005 v5x IR09		March 20, 2013	15:20
	REV NUMBER :	SER NUMBER :	STATS COUNT :	1

440004-n
FNAL 1.3GHZ TESLA
RF CAVITY
ASSEMBLY
@ 000 rotation
'Inspected by ' : Robert Riley
'Cavity Number' : TB9NR013
' ' : 1303201311

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	0.018	0.018	0.200	0.000	0.000

AX	I	J	K
V	0.000	-1.000	0.000

//	MM	PARL1 - PL-NEAR-END-FLANGE TO YMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.027	0.027	0.200	0	0.000

∠	DEG	ANGL1 - PL-NEAR-END-FLANGE TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	90.006	0.006	0.100	0.100	0.000

⌖	MM	LOC2 - CR-NEAR-END-FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.042	-0.042	0.200	0.200	0.000
Z	0.000	-0.171	-0.171	0.200	0.200	0.000
D	140.000	139.933	-0.067	0.300	0.300	0.000
RN	0.000	0.016	0.016	0.200	0.000	0.000

⌗	MM	LOC3 - PL-FAR-END				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1247.400	1250.548	3.148	3.000	3.000	0.148
FL	0.000	0.016	0.016	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	0.231	0.231	0.200	0	0.031

∡	DEG	ANGL2 - PL-FAR-END TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	90.111	0.111	0.100	0.100	0.011

⌗	MM	LOC4 - CR-FAR-END				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.324	-0.324	0.200	0.200	0.124
Z	0.000	-0.148	-0.148	0.200	0.200	0.000
D	140.000	140.186	0.186	0.300	0.300	0.000
RN	0.000	0.124	0.124	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	92.198	-0.642	0.200	0.200	0.442	
FL	0.000	0.047	0.047	0.200	0.000	0.000	
AX		I		J		K	
V		0.001		-1.000		-0.002	
//	MM	PARL5 - PLC-DAT-1 TO YMINUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.213	0.213	0.200	0	0.013	
∡	DEG	ANGL7 - PLC-DAT-1 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	90.119	0.119	0.100	0.100	0.019	

DATUM-2-PLANE

⌗	MM	LOC-DATUM-2-PLANE - PLC-DAT-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	1154.560	1158.298	3.738	0.200	0.200	3.538	
FL	0.000	0.044	0.044	0.200	0.000	0.000	
AX		I		J		K	
V		-0.003		1.000		0.001	
//	MM	PARL6 - PLC-DAT-2 TO YPLUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.302	0.302	0.200	0	0.102	
∡	DEG	ANGL8 - PLC-DAT-2 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.797	-0.203	0.100	0.100	-0.103	
↔	MM	DIST3 - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1061.060	1066.100	5.040	0.200	0.200	4.840	
↔	MM	DIST4 - PLC-DAT-2 TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	93.500	92.250	-1.250	0.200	0.200	-1.050	

PICKUP ANTENNA FLANGE NW8

⌖	MM	LOC5 - PL NW8 ANTENNA FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-53.800	-53.375	0.424	0.200	0.200	0.224
FL	0.000	0.029	0.029	0.200	0.000	0.000

AX	I	J	K
V	-1.000	0.004	0.016

//	MM	PARL3 - PL NW8 ANTENNA FLANGE TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.476	0.476	0.200	0	0.276

∠	DEG	ANGL3 - PL NW8 ANTENNA FLANGE TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.051	-0.949	0.100	0.100	-0.849

⌖	MM	LOC6 - CR_NW8_ANTENNA_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	60.600	60.125	-0.475	0.200	0.200	0.275
Z	0.000	0.635	0.635	0.200	0.200	0.435
D	33.800	33.726	-0.074	0.150	0.000	0.074
RN	0.000	0.059	0.059	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	88.198	0.198	0.200	0.200	0.000
FL	0.000	0.012	0.012	0.200	0.000	0.000

AX	I	J	K
V	1.000	-0.004	-0.005

//	MM	PARL4 - PL NW 40 FLANGE TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.435	0.435	0.200	0	0.235

∠	DEG	ANGL4 - PL NW 40 FLANGE TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.636	-0.364	0.100	0.100	-0.264

⌖	MM	LOC8 - CR_NW_40_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1186.800	1191.078	4.278	0.200	0.200	4.078
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	76.000	75.997	-0.003	0.200	0.000	0.003
RN	0.000	0.012	0.012	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	59.470	-1.130	0.200	0.200	-0.930

⌖	MM	TP NW40 MC BH1 - CR NW 40 FLANGE BH1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.707	-0.043					
PA	112.500	111.484	-1.016					
DF	6.700	6.792	0.092	0.200	0.200	0.000	0.000	
RN	0.000	0.015	0.015	0.200	0.000	0.000		
TP	RFS		1.129	0.300		0.829	0.000	

⌖	MM	TP NW40 MC BH2 - CR NW 40 FLANGE BH2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.676	-0.074					
PA	67.500	66.523	-0.977					
DF	6.700	6.777	0.077	0.200	0.200	0.000	0.000	
RN	0.000	0.016	0.016	0.200	0.000	0.000		
TP	RFS		1.092	0.300		0.792	0.000	

⌖	MM	TP NW40 MC BH3 - CR NW 40 FLANGE BH3						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.701	-0.049					
PA	22.500	21.573	-0.927					
DF	6.700	6.805	0.105	0.200	0.200	0.000	0.000	
RN	0.000	0.023	0.023	0.200	0.000	0.000		
TP	RFS		1.031	0.300		0.731	0.000	

⌖	MM	TP NW40 MC BH4 - CR NW 40 FLANGE BH4						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.749	-0.001					
PA	-22.500	-23.371	-0.871					
DF	6.700	6.793	0.093	0.200	0.200	0.000	0.000	
RN	0.000	0.014	0.014	0.200	0.000	0.000		
TP	RFS		0.965	0.300		0.665	0.000	

⌖	MM	TP NW40 MC BH5 - CR NW 40 FLANGE BH5						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.779	0.029					
PA	-67.500	-68.376	-0.876					
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		0.973	0.300		0.673	0.000	

	MM	TP NW40 MC BH6 - CR NW 40 FLANGE BH6					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.739	-0.011				
PA	-112.500	-113.414	-0.914				
DF	6.700	6.806	0.106	0.200	0.200	0.000	0.000
RN	0.000	0.029	0.029	0.200	0.000	0.000	
TP	RFS		1.013	0.300		0.713	0.000

	MM	TP NW40 MC BH7 - CR NW 40 FLANGE BH7					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.659	-0.091				
PA	-157.500	-158.248	-0.748				
DF	6.700	6.812	0.112	0.200	0.200	0.000	0.000
RN	0.000	0.018	0.018	0.200	0.000	0.000	
TP	RFS		0.847	0.300		0.547	0.000

	MM	TP NW40 MC BH8 - CR NW 40 FLANGE BH8					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.668	-0.082				
PA	157.500	156.609	-0.891				
DF	6.700	6.788	0.088	0.200	0.200	0.000	0.000
RN	0.000	0.012	0.012	0.200	0.000	0.000	
TP	RFS		1.000	0.300		0.700	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	-0.561	0.235	0.794

	DEG	ANGL6 - PL-NW12-FLANGE-HOM2 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	35.000	54.771	19.771	0.500	0.500	19.271

	MM	LOC9 - CR-NW12-FLANGE-HOM2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-71.700	-71.700	100.000	100.000	0.000
Y	0.000	1193.933	1193.933	2000.000	2000.000	0.000
Z	0.000	-9.867	-9.867	100.000	100.000	0.000
D	33.800	33.497	-0.303	0.150	0.000	0.303
RN	0.000	0.142	0.142	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	28.432	0.012	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	28.435	0.015	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	103.886	88.886	0.500	0.500	88.386

HOM 1 LOCATION

⊞	MM	LOC-HOM1 - CY-HOM-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	68.191	68.191	100.000	100.000	0.000
Y	60.600	60.029	-0.571	0.200	0.200	0.371
Z	0.000	-40.850	-40.850	100.000	100.000	0.000
D	44.000	43.942	-0.058	0.000	0.100	0.000
RN	0.000	0.087	0.087	0.100	0.000	0.000

AX	I	J	K
V	-0.858	0.009	0.514

∠	DEG	ANGL9 - CY-HOM-1 TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	30.000	30.944	0.944	0.500	0.500	0.444

∠	DEG	ANGL10 - CY-HOM-1 TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	-90.000	-90.518	-0.518	0.500	0.500	-0.018

∠	DEG	ANGL11 - CY-HOM-1 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	60.000	59.056	-0.944	0.500	0.500	-0.444

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	60.748	0.148	0.200	0.200	0.000
Z	0.000	0.034	0.034	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	0.006	0.006	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	-0.497	-0.260	-0.828

⊿	DEG	ANGL17 - PL_NW12_FLANGE_HOM1 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	15.000	107.450	92.450	0.500	0.500	91.950

⊞	MM	LOC_HOM1_FLANGE_D - CR_NW12_FLANGE_HOM1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	40.497	38.843	-1.653	100.000	100.000	0.000
Y	92.086	57.019	-35.067	100.000	100.000	0.000
Z	-56.755	-59.757	-3.001	100.000	100.000	0.000
D	33.800	33.918	0.118	0.150	0.150	0.000
RN	0.000	0.086	0.086	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	-64.372	-64.372	100.000	100.000	0.000
Y	1186.800	1190.514	3.714	3.000	3.000	0.714
Z	0.000	-45.316	-45.316	100.000	100.000	0.000
D	44.000	43.951	-0.049	0.000	0.100	0.000
RN	0.000	0.061	0.061	0.100	0.000	0.000

AX	I	J	K
V	-0.816	-0.007	-0.578

↔	MM	DIST2 - CY-HOM-2 TO PL-FAR-END (YAXIS)				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	60.600	60.034	-0.566	0.200	0.200	-0.366

⊿	DEG	ANGL12 - CY-HOM-2 TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	35.000	35.297	0.297	0.500	0.500	0.000

⊿	DEG	ANGL13 - CY-HOM-2 TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	-90.000	-89.588	0.412	0.500	0.500	0.000

⊿	DEG	ANGL14 - CY-HOM-2 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	55.000	54.703	-0.297	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	1191.081	4.281	3.000	3.000	1.281
Z	0.000	0.258	0.258	0.200	0.200	0.058

⌖	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	93.929	93.929	2000.000	2000.000	0.000
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	111.000	110.854	-0.146	0.050	0.050	0.096
RN	0.000	0.030	0.030	0.050	0.000	0.000

⌖	MM	LOC-CC2 - CRC-VAC-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.026	-0.026	0.200	0.200	0.000
Y	158.307	121.504	-36.804	2000.000	2000.000	0.000
Z	0.000	0.184	0.184	0.200	0.200	0.000
D	211.000	210.214	-0.786	0.200	0.200	0.586
RN	0.000	0.190	0.190	0.200	0.000	0.000

⌖	MM	LOC-CC3 - CRC-CAV-1-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.140	-0.140	0.200	0.200	0.000
Y	0.000	156.405	156.405	2000.000	2000.000	0.000
Z	0.000	-0.048	-0.048	0.200	0.200	0.000
D	210.300	210.966	0.666	0.200	0.200	0.466
RN	0.000	0.241	0.241	0.200	0.000	0.041

⌖	MM	LOC-CC4 - CRC-CAV-1-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.348	-0.348	0.200	0.200	0.148
Y	0.000	166.248	166.248	2000.000	2000.000	0.000
Z	0.000	0.088	0.087	0.200	0.200	0.000
D	210.300	211.263	0.963	0.200	0.200	0.763
RN	0.000	0.125	0.125	0.200	0.000	0.000

⌖	MM	LOC-CC5 - CRC-CAV-2-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.197	-0.197	0.200	0.200	0.000
Y	0.000	271.767	271.767	2000.000	2000.000	0.000
Z	0.000	0.002	0.002	0.200	0.200	0.000
D	210.300	211.184	0.884	0.200	0.200	0.684
RN	0.000	0.349	0.349	0.200	0.000	0.149

⊞	MM	LOC-CC6 - CRC-CAV-2-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.279	-0.279	0.200	0.200	0.079
Y	0.000	282.041	282.041	2000.000	2000.000	0.000
Z	0.000	-0.131	-0.131	0.200	0.200	0.000
D	210.300	211.268	0.968	0.200	0.200	0.768
RN	0.000	0.222	0.222	0.200	0.000	0.022

⊞	MM	LOC-CC7 - CRC-CAV-3-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.041	-0.041	0.200	0.200	0.000
Y	0.000	387.874	387.874	2000.000	2000.000	0.000
Z	0.000	-0.281	-0.281	0.200	0.200	0.081
D	210.300	211.218	0.917	0.200	0.200	0.717
RN	0.000	0.345	0.345	0.200	0.000	0.145

⊞	MM	LOC-CC8 - CRC-CAV-3-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.191	-0.191	0.200	0.200	0.000
Y	0.000	398.318	398.318	2000.000	2000.000	0.000
Z	0.000	-0.244	-0.244	0.200	0.200	0.044
D	210.300	211.189	0.889	0.200	0.200	0.689
RN	0.000	0.338	0.338	0.200	0.000	0.138

⊞	MM	LOC-CC9 - CRC-CAV-4-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.151	0.151	0.200	0.200	0.000
Y	0.000	503.746	503.746	2000.000	2000.000	0.000
Z	0.000	-0.297	-0.297	0.200	0.200	0.097
D	210.300	211.299	0.999	0.200	0.200	0.799
RN	0.000	0.257	0.257	0.200	0.000	0.057

⊞	MM	LOC-CC10 - CRC-CAV-4-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.413	0.413	0.200	0.200	0.213
Y	0.000	514.277	514.277	2000.000	2000.000	0.000
Z	0.000	-0.351	-0.351	0.200	0.200	0.151
D	210.300	211.265	0.965	0.200	0.200	0.765
RN	0.000	0.182	0.182	0.200	0.000	0.000

⊞	MM	LOC-CC11 - CRC-CAV-5-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.362	0.362	0.200	0.200	0.162
Y	0.000	620.312	620.312	2000.000	2000.000	0.000
Z	0.000	-0.540	-0.540	0.200	0.200	0.340
D	210.300	211.348	1.048	0.200	0.200	0.848
RN	0.000	0.266	0.266	0.200	0.000	0.066

⌖	MM	LOC-CC12 - CRC-CAV-5-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.324	0.324	0.200	0.200	0.124
Y	0.000	631.042	631.042	2000.000	2000.000	0.000
Z	0.000	-0.549	-0.549	0.200	0.200	0.349
D	210.300	211.214	0.914	0.200	0.200	0.714
RN	0.000	0.314	0.314	0.200	0.000	0.114

⌖	MM	LOC-CC13 - CRC-CAV-6-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.466	0.466	0.200	0.200	0.266
Y	0.000	736.390	736.390	2000.000	2000.000	0.000
Z	0.000	-0.627	-0.627	0.200	0.200	0.427
D	210.300	211.236	0.936	0.200	0.200	0.736
RN	0.000	0.282	0.282	0.200	0.000	0.082

⌖	MM	LOC-CC14 - CRC-CAV-6-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.366	0.366	0.200	0.200	0.166
Y	0.000	747.014	747.014	2000.000	2000.000	0.000
Z	0.000	-0.546	-0.546	0.200	0.200	0.346
D	210.300	211.240	0.940	0.200	0.200	0.740
RN	0.000	0.315	0.315	0.200	0.000	0.115

⌖	MM	LOC-CC15 - CRC-CAV-7-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.550	0.550	0.200	0.200	0.350
Y	0.000	852.977	852.977	2000.000	2000.000	0.000
Z	0.000	-0.393	-0.393	0.200	0.200	0.193
D	210.300	211.282	0.982	0.200	0.200	0.782
RN	0.000	0.271	0.271	0.200	0.000	0.071

⌖	MM	LOC-CC16 - CRC-CAV-7-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.439	0.438	0.200	0.200	0.238
Y	0.000	863.431	863.431	2000.000	2000.000	0.000
Z	0.000	-0.400	-0.400	0.200	0.200	0.200
D	210.300	211.241	0.941	0.200	0.200	0.741
RN	0.000	0.326	0.326	0.200	0.000	0.126

⌖	MM	LOC-CC17 - CRC-CAV-8-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.663	0.663	0.200	0.200	0.463
Y	0.000	969.489	969.489	2000.000	2000.000	0.000
Z	0.000	-0.135	-0.136	0.200	0.200	0.000
D	210.300	211.250	0.950	0.200	0.200	0.750
RN	0.000	0.251	0.251	0.200	0.000	0.051

⊞	MM	LOC-CC18 - CRC-CAV-8-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.541	0.541	0.200	0.200	0.341
Y	0.000	979.179	979.179	2000.000	2000.000	0.000
Z	0.000	-0.107	-0.107	0.200	0.200	0.000
D	210.300	211.227	0.927	0.200	0.200	0.727
RN	0.000	0.300	0.300	0.200	0.000	0.100

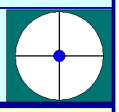
⊞	MM	LOC-CC19 - CRC-CAV-9-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.372	0.372	0.200	0.200	0.172
Y	0.000	1084.898	1084.898	2000.000	2000.000	0.000
Z	0.000	-0.012	-0.012	0.200	0.200	0.000
D	210.300	211.246	0.946	0.200	0.200	0.746
RN	0.000	0.201	0.201	0.200	0.000	0.001

⊞	MM	LOC-CC20 - CRC-CAV-9-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.243	0.243	0.200	0.200	0.043
Y	0.000	1095.432	1095.432	2000.000	2000.000	0.000
Z	0.000	-0.203	-0.203	0.200	0.200	0.003
D	210.300	210.783	0.483	0.200	0.200	0.283
RN	0.000	0.394	0.394	0.200	0.000	0.194

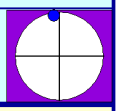
⊞	MM	LOC-CC21 - CRC-VAC-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.047	0.046	0.200	0.200	0.000
Y	1156.557	1124.401	-32.156	2000.000	2000.000	0.000
Z	0.000	-0.003	-0.003	0.200	0.200	0.000
D	235.000	234.588	-0.412	0.200	0.200	0.212
RN	0.000	0.173	0.173	0.200	0.000	0.000

⊞	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	1156.385	1156.385	2000.000	2000.000	0.000
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	111.000	110.850	-0.150	0.050	0.050	0.100
RN	0.000	0.036	0.036	0.050	0.000	0.000

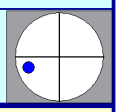
⌖	MM	LOC-TP-CC1 - CRC-DAT-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.000	0.000				
Z	0.000	0.000	0.000				
TP	RFS		0.000	0.400		0.000	0.000



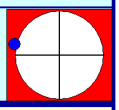
⌖	MM	LOC-TP-CC2 - CRC-VAC-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.026	-0.026				
Z	0.000	0.184	0.184				
TP	RFS		0.372	0.400		0.000	0.000



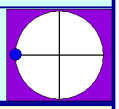
⌖	MM	LOC-TP-CC3 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.140	-0.140				
Z	0.000	-0.048	-0.048				
TP	RFS		0.296	0.400		0.000	0.000



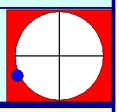
⌖	MM	LOC-TP-CC4 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.348	-0.348				
Z	0.000	0.088	0.087				
TP	RFS		0.717	0.400		0.317	0.000



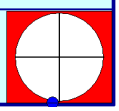
⌖	MM	LOC-TP-CC5 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.197	-0.197				
Z	0.000	0.002	0.002				
TP	RFS		0.394	0.400		0.000	0.000



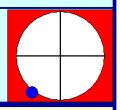
⌖	MM	LOC-TP-CC6 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.279	-0.279				
Z	0.000	-0.131	-0.131				
TP	RFS		0.616	0.400		0.216	0.000



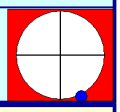
⌖	MM	LOC-TP-CC7 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.041	-0.041				
Z	0.000	-0.281	-0.281				
TP	RFS		0.568	0.400		0.168	0.000



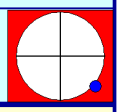
⌖	MM	LOC-TP-CC8 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.191	-0.191				
Z	0.000	-0.244	-0.244				
TP	RFS		0.620	0.400		0.220	0.000



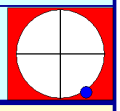
⌖	MM	LOC-TP-CC9 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.151	0.151				
Z	0.000	-0.297	-0.297				
TP	RFS		0.666	0.400		0.266	0.000



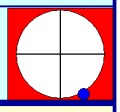
⌖	MM	LOC-TP-CC10 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.413	0.413				
Z	0.000	-0.351	-0.351				
TP	RFS		1.084	0.400		0.684	0.000



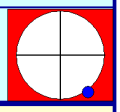
⌖	MM	LOC-TP-CC11 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.362	0.362				
Z	0.000	-0.540	-0.540				
TP	RFS		1.300	0.400		0.900	0.000



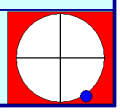
⌖	MM	LOC-TP-CC12 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.324	0.324				
Z	0.000	-0.549	-0.549				
TP	RFS		1.274	0.400		0.874	0.000



⌖	MM	LOC-TP-CC13 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.466	0.466				
Z	0.000	-0.627	-0.627				
TP	RFS		1.563	0.400		1.163	0.000



⌖	MM	LOC-TP-CC14 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.366	0.366				
Z	0.000	-0.546	-0.546				
TP	RFS		1.315	0.400		0.915	0.000



⌖	MM	LOC-TP-CC15 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.550	0.550				
Z	0.000	-0.393	-0.393				
TP	RFS		1.352	0.400		0.952	0.000

⌖	MM	LOC-TP-CC16 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.439	0.438				
Z	0.000	-0.400	-0.400				
TP	RFS		1.187	0.400		0.787	0.000

⌖	MM	LOC-TP-CC17 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.663	0.663				
Z	0.000	-0.135	-0.136				
TP	RFS		1.353	0.400		0.953	0.000

⌖	MM	LOC-TP-CC18 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.541	0.541				
Z	0.000	-0.107	-0.107				
TP	RFS		1.102	0.400		0.702	0.000

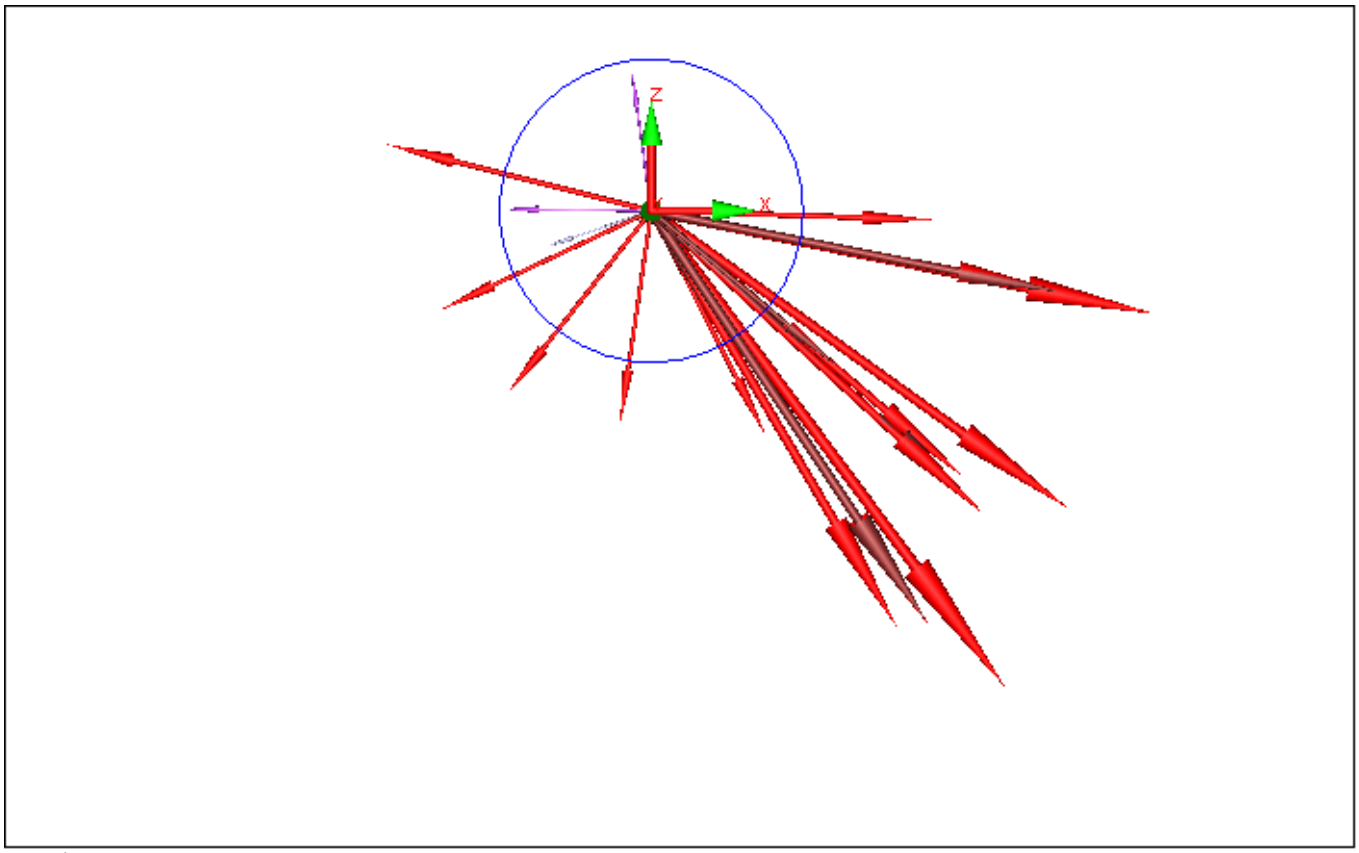
⌖	MM	LOC-TP-CC19 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.372	0.372				
Z	0.000	-0.012	-0.012				
TP	RFS		0.744	0.400		0.344	0.000

⌖	MM	LOC-TP-CC20 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.243	0.243				
Z	0.000	-0.203	-0.203				
TP	RFS		0.633	0.400		0.233	0.000

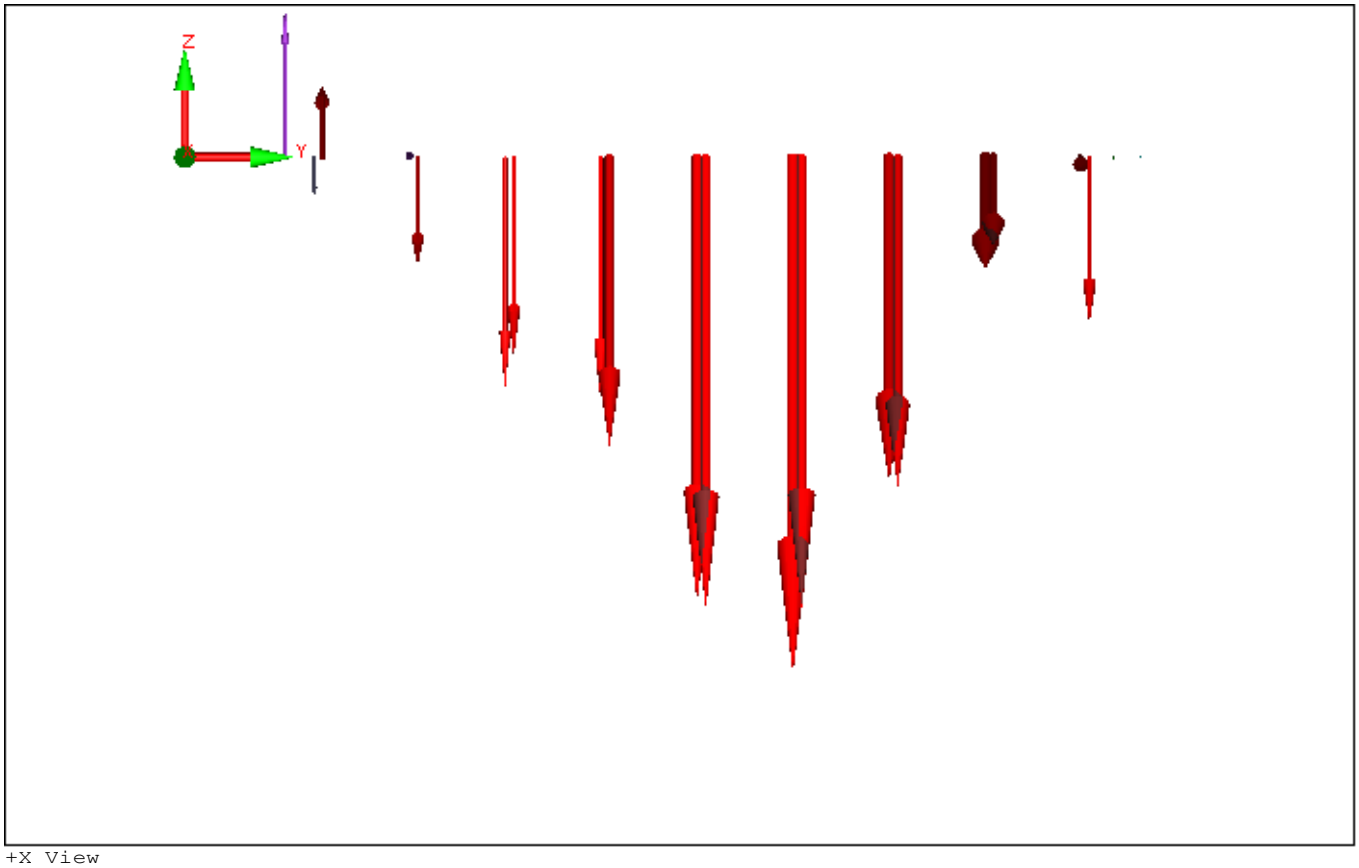
⌖	MM	LOC-TP-CC21 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.047	0.046				
Z	0.000	-0.003	-0.003				
TP	RFS		0.093	0.400		0.000	0.000

⌖	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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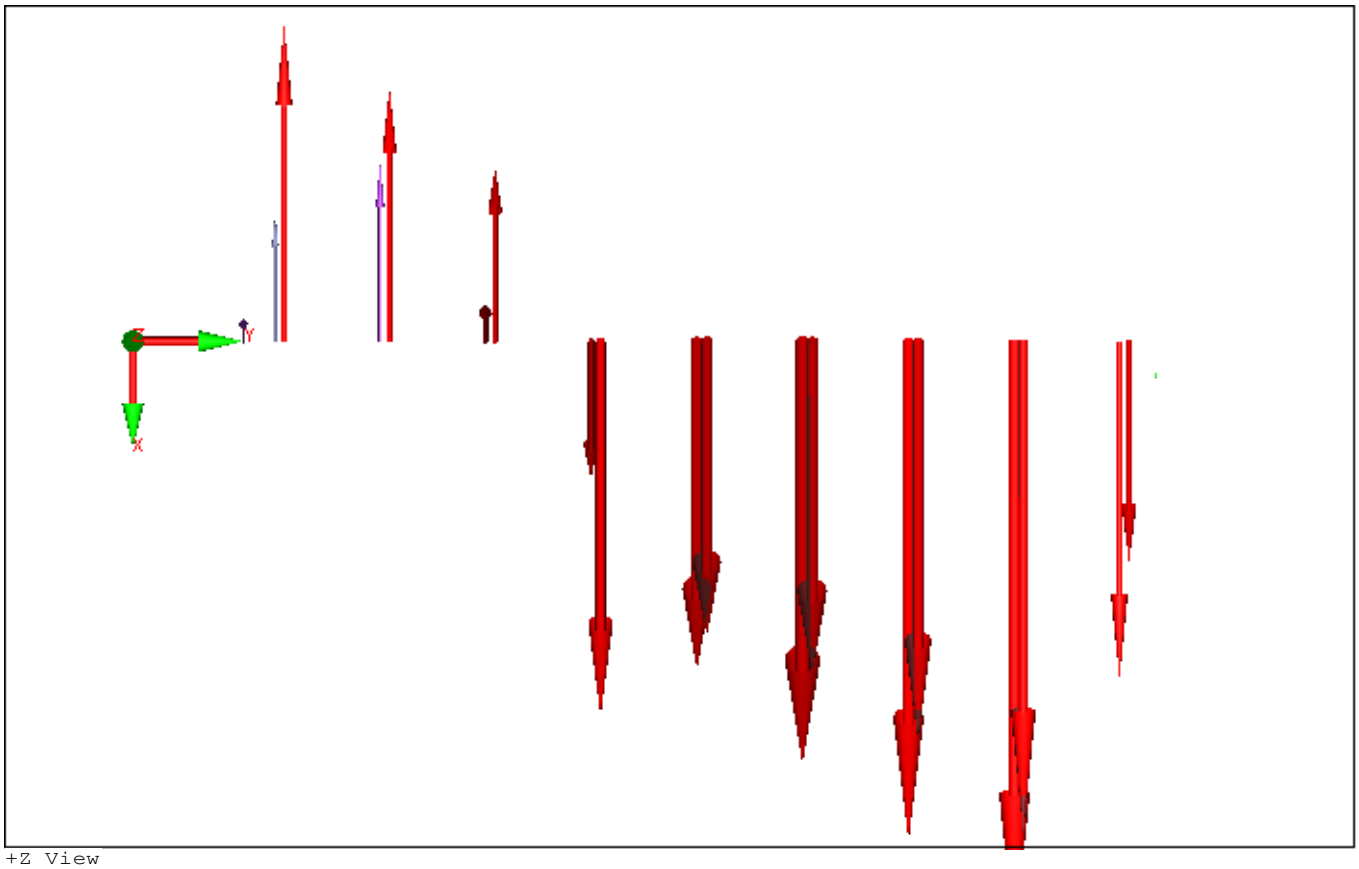

+Z View
x1000

⌗	MM	LOC-BEST FIT CONSTRUCTED LINE - LNC-BEST-FIT				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.295	0.169	-0.126	0.200	0.200	0.000
Y	658.560	625.321	-33.239	2000.000	2000.000	0.000
Z	0.000	-0.209	-0.209	0.200	0.200	0.009
ST	0.000	1.003	1.003	0.400	0.000	0.603

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	-0.727	-0.727	0.200	0.200	0.527
Y	0.000	218.316	218.316	2000.000	2000.000	0.000
Z	0.000	0.197	0.197	0.200	0.200	0.000
R	56.500	56.755	0.255	0.200	0.200	0.055
RN	0.000	0.003	0.003	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	-0.698	-0.698	0.200	0.200	0.498
Y	0.000	333.912	333.912	2000.000	2000.000	0.000
Z	0.000	-0.780	-0.780	0.200	0.200	0.580
R	56.500	57.041	0.541	0.200	0.200	0.341
RN	0.000	0.014	0.014	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	-0.285	-0.285	0.200	0.200	0.085
Y	0.000	448.816	448.816	2000.000	2000.000	0.000
Z	0.000	-0.120	-0.120	0.200	0.200	0.000
R	56.500	56.556	0.056	0.200	0.200	0.000
RN	0.000	0.004	0.004	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	-0.078	-0.078	0.200	0.200	0.000
Y	0.000	564.413	564.413	2000.000	2000.000	0.000
Z	0.000	-0.579	-0.580	0.200	0.200	0.380
R	56.500	56.708	0.208	0.200	0.200	0.008
RN	0.000	0.088	0.088	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	-0.148	-0.148	0.200	0.200	0.000
Y	0.000	679.709	679.709	2000.000	2000.000	0.000
Z	0.000	-0.610	-0.610	0.200	0.200	0.410
R	56.500	56.797	0.297	0.200	0.200	0.097
RN	0.000	0.071	0.071	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	1.052	1.052	0.200	0.200	0.852
Y	0.000	795.110	795.110	2000.000	2000.000	0.000
Z	0.000	-0.082	-0.082	0.200	0.200	0.000
R	56.500	56.615	0.115	0.200	0.200	0.000
RN	0.000	0.076	0.076	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	0.610	0.610	0.200	0.200	0.410
Y	0.000	910.612	910.612	2000.000	2000.000	0.000
Z	0.000	-0.370	-0.370	0.200	0.200	0.170
R	56.500	56.261	-0.239	0.200	0.200	0.039
RN	0.000	0.031	0.031	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	0.467	0.467	0.200	0.200	0.267
Y	0.000	1026.412	1026.412	2000.000	2000.000	0.000
Z	0.000	-0.084	-0.084	0.200	0.200	0.000
R	56.500	56.381	-0.119	0.200	0.200	0.000
RN	0.000	0.029	0.029	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	-0.186	-0.186	0.200	0.200	0.000
Y	255.357	218.324	-37.033	2000.000	2000.000	0.000
Z	0.000	-0.005	-0.005	0.200	0.200	0.000
R	56.500	56.412	-0.088	0.200	0.200	0.000
RN	0.000	0.027	0.027	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	0.412	0.412	0.200	0.200	0.212
Y	370.957	333.918	-37.039	2000.000	2000.000	0.000
Z	0.000	-0.395	-0.395	0.200	0.200	0.195
R	56.500	56.866	0.366	0.200	0.200	0.166
RN	0.000	0.013	0.013	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	0.245	0.245	0.200	0.200	0.045
Y	485.857	448.822	-37.035	2000.000	2000.000	0.000
Z	0.000	-0.074	-0.074	0.200	0.200	0.000
R	56.500	56.626	0.126	0.200	0.200	0.000
RN	0.000	0.026	0.026	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	0.321	0.321	0.200	0.200	0.121
Y	601.457	564.420	-37.037	2000.000	2000.000	0.000
Z	0.000	-0.588	-0.588	0.200	0.200	0.388
R	56.500	56.337	-0.163	0.200	0.200	0.000
RN	0.000	0.085	0.085	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	-0.255	-0.256	0.200	0.200	0.056
Y	716.757	679.715	-37.042	2000.000	2000.000	0.000
Z	0.000	0.132	0.132	0.200	0.200	0.000
R	56.500	56.894	0.394	0.200	0.200	0.194
RN	0.000	0.007	0.007	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	1.006	1.006	0.200	0.200	0.806
Y	832.157	795.123	-37.034	2000.000	2000.000	0.000
Z	0.000	-0.515	-0.515	0.200	0.200	0.315
R	56.500	56.846	0.346	0.200	0.200	0.146
RN	0.000	0.001	0.001	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	0.655	0.655	0.200	0.200	0.455
Y	947.657	910.622	-37.035	2000.000	2000.000	0.000
Z	0.000	-0.348	-0.348	0.200	0.200	0.148
R	56.500	56.366	-0.134	0.200	0.200	0.000
RN	0.000	0.055	0.055	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	0.967	0.967	0.200	0.200	0.767
Y	1063.457	1026.417	-37.040	2000.000	2000.000	0.000
Z	0.000	-0.040	-0.040	0.200	0.200	0.000
R	56.500	56.699	0.199	0.200	0.200	0.000
RN	0.000	0.010	0.010	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	0.955	0.955	0.400	0.000	0.555

◎	MM	CON_N12 - CR_SUPPORT_RING_N12 TO LINC_SUPPORT_RING_B12				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.202	0.202	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	1.572	1.572	0.400	0.000	1.172

◎	MM	CON_N23 - CR_SUPPORT_RING_N23 TO LINC_SUPPORT_RING_B23				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.210	1.210	0.400	0.000	0.810

◎	MM	CON_P34 - CR_SUPPORT_RING_P34 TO LINC_SUPPORT_RING_B34				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.596	0.596	0.400	0.000	0.196

◎	MM	CON_N34 - CR_SUPPORT_RING_N34 TO LINC_SUPPORT_RING_B34				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.669	0.669	0.400	0.000	0.269

◎	MM	CON_P45 - CR_SUPPORT_RING_P45 TO LINC_SUPPORT_RING_B45				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.974	0.974	0.400	0.000	0.574

◎	MM	CON_N45 - CR_SUPPORT_RING_N45 TO LINC_SUPPORT_RING_B45				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.325	0.325	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	1.076	1.076	0.400	0.000	0.676

◎	MM	CON_N56 - CR_SUPPORT_RING_N56 TO LINC_SUPPORT_RING_B56				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.929	1.929	0.400	0.000	1.529

◎	MM	CON_P67 - CR_SUPPORT_RING_P67 TO LINC_SUPPORT_RING_B67				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.440	1.440	0.400	0.000	1.040

◎	MM	CON_N67 - CR_SUPPORT_RING_N67 TO LINC_SUPPORT_RING_B67				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.115	1.115	0.400	0.000	0.715

◎	MM	CON_P78 - CR_SUPPORT_RING_P78 TO LINC_SUPPORT_RING_B78				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.227	0.227	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	0.268	0.268	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	0.038	0.038	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	1.005	1.005	0.400	0.000	0.605

↔	MM	A - PL-NEAR-END-FLANGE TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1247.400	1250.548	3.148	0.200	0.200	2.948	
↔	MM	B - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1061.060	1066.100	5.040	0.200	0.200	4.840	
↔	MM	C - PLC-DAT-1 TO CR_NW8_ANTENNA_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	32.240	32.074	-0.166	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	32.780	-0.120	0.200	0.200	0.000	
↔	MM	E - LNC-LEVEL TO PL NW8 ANTENNA FLANGE (XAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	53.800	53.375	-0.425	0.200	0.200	-0.225	
↔	MM	F - LNC-LEVEL TO PL NW 40 FLANGE (XAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	88.000	88.198	0.198	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	28.435	0.015	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	60.029	-0.571	0.200	0.200	-0.371	
↔	MM	I2 - PL-NEAR-END-FLANGE TO CY-HOM-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1190.514	3.714	0.200	0.200	3.514	
↔	MM	I3 - PL-NEAR-END-FLANGE TO CR_NW_40_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1191.078	4.278	0.200	0.200	4.078	
∠	DEG	K - CY-HOM-1 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	30.000	30.944	0.944	0.500	0.500	0.444	
∠	DEG	L - CY-HOM-2 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	35.297	0.297	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	139.933	-0.067	0.300	0.300	0.000	
⌖	MM	O2 - CR-FAR-END					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	140.000	140.186	0.186	0.300	0.300	0.000	
⌖	MM	P1 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.966	0.666	0.050	0.050	0.616	
⌖	MM	P2 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.263	0.963	0.050	0.050	0.913	
⌖	MM	P3 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.184	0.883	0.050	0.050	0.833	
⌖	MM	P4 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.268	0.967	0.050	0.050	0.917	
⌖	MM	P5 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.218	0.917	0.050	0.050	0.867	
⌖	MM	P6 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.189	0.889	0.050	0.050	0.839	
⌖	MM	P7 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.299	0.999	0.050	0.050	0.949	
⌖	MM	P8 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.265	0.964	0.050	0.050	0.914	
⌖	MM	P9 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.348	1.048	0.050	0.050	0.998	
⌖	MM	P10 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.214	0.914	0.050	0.050	0.864	

⌖	MM	P11 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.236	0.936	0.050	0.050	0.886	
⌖	MM	P12 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.240	0.940	0.050	0.050	0.890	
⌖	MM	P13 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.282	0.982	0.050	0.050	0.932	
⌖	MM	P14 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.241	0.941	0.050	0.050	0.891	
⌖	MM	P15 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.250	0.950	0.050	0.050	0.900	
⌖	MM	P16 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.227	0.927	0.050	0.050	0.877	
⌖	MM	P17 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.246	0.946	0.050	0.050	0.896	
⌖	MM	P18 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.783	0.483	0.050	0.050	0.433	
⌖	MM	Q1 - CR_SUPPORT_RING_P12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.755	0.255	0.080	0.080	0.175	
⌖	MM	Q2 - CR_SUPPORT_RING_P23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	57.041	0.541	0.080	0.080	0.461	
⌖	MM	Q3 - CR_SUPPORT_RING_P34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.556	0.056	0.080	0.080	0.000	
⌖	MM	Q4 - CR_SUPPORT_RING_P45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.708	0.208	0.080	0.080	0.128	
⌖	MM	Q5 - CR_SUPPORT_RING_P56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.797	0.297	0.080	0.080	0.217	

⌖	MM	Q6 - CR_SUPPORT_RING_P67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.615	0.115	0.080	0.080	0.035	
⌖	MM	Q7 - CR_SUPPORT_RING_P78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.261	-0.239	0.080	0.080	0.159	
⌖	MM	Q8 - CR_SUPPORT_RING_P89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.381	-0.119	0.080	0.080	0.039	
⌖	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	210.214	19.013	0.200	0.200	18.813	
⌖	MM	R2 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	200.000	234.588	34.588	0.200	0.200	34.388	

◎	MM	U1 - CR-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.352	0.352	0.400	0.000	0.000	
◎	MM	U2 - CR-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.713	0.713	0.400	0.000	0.313	
◎	MM	U3 - CRC-CAV-1-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.296	0.296	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	0.717	0.717	0.400	0.000	0.317	
◎	MM	U5 - CRC-CAV-2-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.394	0.394	0.400	0.000	0.000	
◎	MM	U6 - CRC-CAV-2-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.616	0.616	0.400	0.000	0.216	
◎	MM	U7 - CRC-CAV-3-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.568	0.568	0.400	0.000	0.168	
◎	MM	U8 - CRC-CAV-3-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.620	0.620	0.400	0.000	0.220	
◎	MM	U9 - CRC-CAV-4-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.666	0.666	0.400	0.000	0.266	
◎	MM	U10 - CRC-CAV-4-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.084	1.084	0.400	0.000	0.684	
◎	MM	U11 - CRC-CAV-5-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.300	1.300	0.400	0.000	0.900	
◎	MM	U12 - CRC-CAV-5-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.274	1.274	0.400	0.000	0.874	
◎	MM	U13 - CRC-CAV-6-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.563	1.563	0.400	0.000	1.163	

◎	MM	U14 - CRC-CAV-6-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.315	1.315	0.400	0.000	0.915	
◎	MM	U15 - CRC-CAV-7-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.352	1.352	0.400	0.000	0.952	
◎	MM	U16 - CRC-CAV-7-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.187	1.187	0.400	0.000	0.787	
◎	MM	U17 - CRC-CAV-8-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.353	1.353	0.400	0.000	0.953	
◎	MM	U18 - CRC-CAV-8-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.103	1.103	0.400	0.000	0.703	
◎	MM	U19 - CRC-CAV-9-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.744	0.744	0.400	0.000	0.344	
◎	MM	U20 - CRC-CAV-9-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.633	0.633	0.400	0.000	0.233	
◎	MM	U21 - CR_SUPPORT_RING_P12 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.505	1.505	0.400	0.000	1.105	
◎	MM	U22 - CR_SUPPORT_RING_P23 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.093	2.093	0.400	0.000	1.693	
◎	MM	U23 - CR_SUPPORT_RING_P34 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.618	0.618	0.400	0.000	0.218	
◎	MM	U24 - CR_SUPPORT_RING_P45 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.169	1.169	0.400	0.000	0.769	
◎	MM	U25 - CR_SUPPORT_RING_P56 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.255	1.255	0.400	0.000	0.855	
◎	MM	U26 - CR_SUPPORT_RING_P67 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.110	2.110	0.400	0.000	1.710	

◎	MM	U27 - CR_SUPPORT_RING_P78 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.428	1.428	0.400	0.000	1.028	
◎	MM	U28 - CR_SUPPORT_RING_P89 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.949	0.949	0.400	0.000	0.549	
◎	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	0.372	0.372	0.400	0.000	0.000	

◎	MM	U40 - CRC-VAC-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.093	0.093	0.400	0.000	0.000	
⊥	MM	V1 - PL-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.027	0.027	0.200	0	0.000	
⊥	MM	V2 - PL-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.231	0.231	0.200	0	0.031	