pc-dmis	PART NAME : PN440004-n ILC 1p3GHZ RF CAVITY ASSEMBLY 000 TB9NR001 v5x IR09		February 05, 2013	10:46
	REV NUMBER :	SER NUMBER :	STATS COUNT :	1

440004-n
FNAL 1.3GHZ TESLA
RF CAVITY
ASSEMBLY
@ 000 rotation
'Inspected by ' : Robert Riley
'Cavity Number' : TB9AES018
' ' : 1302041347

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	0.050	0.050	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	0.278	0.278	0.200	0	0.078

∠	DEG	ANGL1 - PL-NEAR-END-FLANGE TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	90.132	0.132	0.100	0.100	0.032

⌖	MM	LOC2 - CR-NEAR-END-FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.027	0.027	0.200	0.200	0.000
Z	0.000	0.175	0.175	0.200	0.200	0.000
D	140.000	140.013	0.013	0.300	0.300	0.000
RN	0.000	0.010	0.010	0.200	0.000	0.000

⌗	MM	LOC3 - PL-FAR-END				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1247.400	1250.105	2.705	3.000	3.000	0.000
FL	0.000	0.020	0.020	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	0.296	0.296	0.200	0	0.096

∡	DEG	ANGL2 - PL-FAR-END TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.860	-0.140	0.100	0.100	-0.040

⌗	MM	LOC4 - CR-FAR-END				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.031	0.031	0.200	0.200	0.000
Z	0.000	0.248	0.248	0.200	0.200	0.048
D	140.000	139.994	-0.006	0.300	0.300	0.000
RN	0.000	0.014	0.014	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	92.828	-0.012	0.200	0.200	0.000	
FL	0.000	0.137	0.137	0.200	0.000	0.000	
AX		I		J		K	
V		0.002		-1.000		0.005	
//	MM	PARL5 - PLC-DAT-1 TO YMINUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.553	0.553	0.200	0	0.353	
∠	DEG	ANGL7 - PLC-DAT-1 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.706	-0.294	0.100	0.100	-0.194	

DATUM-2-PLANE

⌗	MM	LOC-DATUM-2-PLANE - PLC-DAT-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	1154.560	1156.669	2.109	0.200	0.200	1.909	
FL	0.000	0.123	0.123	0.200	0.000	0.000	
AX		I		J		K	
V		0.006		1.000		0.002	
//	MM	PARL6 - PLC-DAT-2 TO YPLUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.612	0.612	0.200	0	0.412	
∠	DEG	ANGL8 - PLC-DAT-2 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	90.363	0.363	0.100	0.100	0.263	
↔	MM	DIST3 - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1061.060	1063.841	2.781	0.200	0.200	2.581	
↔	MM	DIST4 - PLC-DAT-2 TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	93.500	93.436	-0.064	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	-54.373	-0.573	0.200	0.200	0.373	
FL	0.000	0.003	0.003	0.200	0.000	0.000	
AX		I		J		K	
V		-1.000		-0.001		0.013	
//	MM	PARL3 - PL NW8 ANTENNA FLANGE TO XMINUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.383	0.383	0.200	0	0.183	
∠	DEG	ANGL3 - PL NW8 ANTENNA FLANGE TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.270	-0.730	0.100	0.100	-0.630	
⌖	MM	LOC6 - CR_NW8_ANTENNA_FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	60.600	60.642	0.042	0.200	0.200	0.000	
Z	0.000	0.257	0.256	0.200	0.200	0.056	
D	33.800	33.832	0.032	0.150	0.000	0.000	
RN	0.000	0.011	0.011	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	87.986	-0.014	0.200	0.200	0.000	
FL	0.000	0.030	0.030	0.200	0.000	0.000	
AX		I		J		K	
V		1.000		-0.002		-0.001	
//	MM	PARL4 - PL NW 40 FLANGE TO XMINUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.147	0.147	0.200	0	0.000	
∠	DEG	ANGL4 - PL NW 40 FLANGE TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	90.127	0.127	0.100	0.100	0.027	
⌖	MM	LOC8 - CR_NW_40_FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	1186.800	1189.460	2.660	0.200	0.200	2.460	
Z	0.000	0.000	0.000	0.200	0.200	0.000	
D	76.000	76.013	0.013	0.200	0.000	0.000	
RN	0.000	0.010	0.010	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	60.644	0.044	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	31.713	-0.037				
PA	112.500	112.266	-0.234				
DF	6.700	6.803	0.103	0.200	0.200	0.000	0.000
RN	0.000	0.022	0.022	0.200	0.000	0.000	
TP	RFS		0.269	0.300		0.000	0.000

	MM	TP NW40 MC BH2 - CR NW 40 FLANGE BH2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.699	-0.051				
PA	67.500	67.238	-0.262				
DF	6.700	6.802	0.102	0.200	0.200	0.000	0.000
RN	0.000	0.024	0.024	0.200	0.000	0.000	
TP	RFS		0.308	0.300		0.008	0.000

	MM	TP NW40 MC BH3 - CR NW 40 FLANGE BH3					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.689	-0.061				
PA	22.500	22.198	-0.302				
DF	6.700	6.804	0.104	0.200	0.200	0.000	0.000
RN	0.000	0.027	0.027	0.200	0.000	0.000	
TP	RFS		0.356	0.300		0.056	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	-22.783	-0.283				
DF	6.700	6.808	0.108	0.200	0.200	0.000	0.000
RN	0.000	0.020	0.020	0.200	0.000	0.000	
TP	RFS		0.348	0.300		0.048	0.000

	MM	TP NW40 MC BH5 - CR NW 40 FLANGE BH5					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.717	-0.033				
PA	-67.500	-67.785	-0.285				
DF	6.700	6.812	0.112	0.200	0.200	0.000	0.000
RN	0.000	0.038	0.038	0.200	0.000	0.000	
TP	RFS		0.323	0.300		0.023	0.000

MM	TP NW40 MC BH6 - CR NW 40 FLANGE BH6						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.721	-0.029				
PA	-112.500	-112.820	-0.320				
DF	6.700	6.803	0.103	0.200	0.200	0.000	0.000
RN	0.000	0.031	0.031	0.200	0.000	0.000	
TP	RFS		0.359	0.300		0.059	0.000

MM	TP NW40 MC BH7 - CR NW 40 FLANGE BH7						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.711	-0.039				
PA	-157.500	-157.857	-0.357				
DF	6.700	6.804	0.104	0.200	0.200	0.000	0.000
RN	0.000	0.023	0.023	0.200	0.000	0.000	
TP	RFS		0.403	0.300		0.103	0.000

MM	TP NW40 MC BH8 - CR NW 40 FLANGE BH8						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.716	-0.034				
PA	157.500	157.230	-0.270				
DF	6.700	6.799	0.099	0.200	0.200	0.000	0.000
RN	0.000	0.036	0.036	0.200	0.000	0.000	
TP	RFS		0.307	0.300		0.007	0.000

HOM-2 FLANGE NW12

MM	FLAT4 - PL-NW12-FLANGE-HOM2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.015	0.015	0.200	0.000	0.000

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

AX	I	J	K
V	-0.549	0.265	0.793

DEG	ANGL6 - PL-NW12-FLANGE-HOM2 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	35.000	55.325	20.325	0.500	0.500	19.825

MM	LOC9 - CR-NW12-FLANGE-HOM2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-71.610	-71.610	100.000	100.000	0.000
Y	0.000	1193.054	1193.054	2000.000	2000.000	0.000
Z	0.000	-9.278	-9.278	100.000	100.000	0.000
D	33.800	33.840	0.040	0.150	0.000	0.000
RN	0.000	0.009	0.009	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	28.386	-0.034	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	28.386	-0.034	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	105.287	90.287	0.500	0.500	89.787

HOM 1 LOCATION

⊞	MM	LOC-HOM1 - CY-HOM-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	68.928	68.928	100.000	100.000	0.000
Y	60.600	60.446	-0.154	0.200	0.200	0.000
Z	0.000	-39.963	-39.963	100.000	100.000	0.000
D	44.000	43.870	-0.130	0.000	0.100	0.030
RN	0.000	0.104	0.104	0.100	0.000	0.004

AX	I	J	K
V	-0.866	0.003	0.501

∠	DEG	ANGL9 - CY-HOM-1 TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	30.000	30.059	0.059	0.500	0.500	0.000

∠	DEG	ANGL10 - CY-HOM-1 TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	-90.000	-89.800	0.200	0.500	0.500	0.000

∠	DEG	ANGL11 - CY-HOM-1 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	60.000	59.941	-0.059	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	60.723	0.123	0.200	0.200	0.000
Z	0.000	-0.072	-0.072	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	0.001	0.001	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	-0.485	-0.262	-0.834

⊿	DEG	ANGL17 - PL_NW12_FLANGE_HOM1 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	15.000	107.419	92.419	0.500	0.500	91.919

⊞	MM	LOC_HOM1_FLANGE_D - CR_NW12_FLANGE_HOM1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	40.497	39.601	-0.896	100.000	100.000	0.000
Y	92.086	57.563	-34.523	100.000	100.000	0.000
Z	-56.755	-59.781	-3.026	100.000	100.000	0.000
D	33.800	33.794	-0.006	0.150	0.150	0.000
RN	0.000	0.005	0.005	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	-65.216	-65.216	100.000	100.000	0.000
Y	1186.800	1189.665	2.865	3.000	3.000	0.000
Z	0.000	-45.446	-45.446	100.000	100.000	0.000
D	44.000	43.907	-0.093	0.000	0.100	0.000
RN	0.000	0.187	0.187	0.100	0.000	0.087

AX	I	J	K
V	-0.818	0.002	-0.575

↔	MM	DIST2 - CY-HOM-2 TO PL-FAR-END (YAXIS)				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	60.600	60.440	-0.160	0.200	0.200	0.000

⊿	DEG	ANGL12 - CY-HOM-2 TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	35.000	35.089	0.089	0.500	0.500	0.000

⊿	DEG	ANGL13 - CY-HOM-2 TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	-90.000	-89.865	0.135	0.500	0.500	0.000

⊿	DEG	ANGL14 - CY-HOM-2 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	55.000	54.911	-0.089	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	1189.477	2.677	3.000	3.000	0.000
Z	0.000	0.370	0.370	0.200	0.200	0.170

LOCATIONS OF CONSTRUCTED CIRCLES
ON 18 HALF CELLS & 2 DATUM SURFACES & 2 VACUUM SURFACES

⌖	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	94.824	94.824	2000.000	2000.000	0.000
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	111.000	110.777	-0.223	0.050	0.050	0.173
RN	0.000	0.045	0.045	0.050	0.000	0.000

⌖	MM	LOC-CC2 - CRC-VAC-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.032	-0.032	0.200	0.200	0.000
Y	158.307	123.224	-35.084	2000.000	2000.000	0.000
Z	0.000	-0.109	-0.109	0.200	0.200	0.000
D	211.000	210.964	-0.036	0.200	0.200	0.000
RN	0.000	0.046	0.046	0.200	0.000	0.000

⌖	MM	LOC-CC3 - CRC-CAV-1-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.023	0.022	0.200	0.200	0.000
Y	0.000	158.052	158.052	2000.000	2000.000	0.000
Z	0.000	-0.141	-0.141	0.200	0.200	0.000
D	210.300	211.184	0.884	0.200	0.200	0.684
RN	0.000	0.194	0.194	0.200	0.000	0.000

⌖	MM	LOC-CC4 - CRC-CAV-1-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.009	0.009	0.200	0.200	0.000
Y	0.000	166.966	166.966	2000.000	2000.000	0.000
Z	0.000	-0.182	-0.182	0.200	0.200	0.000
D	210.300	211.076	0.776	0.200	0.200	0.576
RN	0.000	0.224	0.224	0.200	0.000	0.024

⌖	MM	LOC-CC5 - CRC-CAV-2-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.008	0.007	0.200	0.200	0.000
Y	0.000	273.782	273.782	2000.000	2000.000	0.000
Z	0.000	-0.375	-0.375	0.200	0.200	0.175
D	210.300	211.112	0.812	0.200	0.200	0.612
RN	0.000	0.234	0.234	0.200	0.000	0.034

⌗	MM	LOC-CC6 - CRC-CAV-2-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.017	0.017	0.200	0.200	0.000
Y	0.000	282.744	282.744	2000.000	2000.000	0.000
Z	0.000	-0.421	-0.421	0.200	0.200	0.221
D	210.300	211.058	0.758	0.200	0.200	0.558
RN	0.000	0.140	0.140	0.200	0.000	0.000

⌗	MM	LOC-CC7 - CRC-CAV-3-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.032	-0.032	0.200	0.200	0.000
Y	0.000	389.705	389.705	2000.000	2000.000	0.000
Z	0.000	-0.564	-0.564	0.200	0.200	0.364
D	210.300	211.171	0.871	0.200	0.200	0.671
RN	0.000	0.181	0.181	0.200	0.000	0.000

⌗	MM	LOC-CC8 - CRC-CAV-3-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.043	-0.043	0.200	0.200	0.000
Y	0.000	398.783	398.783	2000.000	2000.000	0.000
Z	0.000	-0.530	-0.530	0.200	0.200	0.330
D	210.300	211.078	0.778	0.200	0.200	0.578
RN	0.000	0.197	0.197	0.200	0.000	0.000

⌗	MM	LOC-CC9 - CRC-CAV-4-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.086	-0.086	0.200	0.200	0.000
Y	0.000	504.681	504.681	2000.000	2000.000	0.000
Z	0.000	-0.665	-0.665	0.200	0.200	0.465
D	210.300	211.114	0.814	0.200	0.200	0.614
RN	0.000	0.176	0.176	0.200	0.000	0.000

⌗	MM	LOC-CC10 - CRC-CAV-4-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.086	-0.086	0.200	0.200	0.000
Y	0.000	513.501	513.501	2000.000	2000.000	0.000
Z	0.000	-0.687	-0.687	0.200	0.200	0.487
D	210.300	211.055	0.755	0.200	0.200	0.555
RN	0.000	0.148	0.148	0.200	0.000	0.000

⌗	MM	LOC-CC11 - CRC-CAV-5-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.087	-0.088	0.200	0.200	0.000
Y	0.000	620.698	620.698	2000.000	2000.000	0.000
Z	0.000	-0.719	-0.719	0.200	0.200	0.519
D	210.300	211.113	0.813	0.200	0.200	0.613
RN	0.000	0.233	0.233	0.200	0.000	0.033

⊞	MM	LOC-CC12 - CRC-CAV-5-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.051	-0.051	0.200	0.200	0.000
Y	0.000	629.389	629.389	2000.000	2000.000	0.000
Z	0.000	-0.725	-0.725	0.200	0.200	0.525
D	210.300	211.149	0.849	0.200	0.200	0.649
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	-0.032	-0.032	0.200	0.200	0.000
Y	0.000	735.850	735.850	2000.000	2000.000	0.000
Z	0.000	-0.640	-0.640	0.200	0.200	0.440
D	210.300	211.087	0.787	0.200	0.200	0.587
RN	0.000	0.179	0.179	0.200	0.000	0.000

⊞	MM	LOC-CC14 - CRC-CAV-6-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.021	-0.021	0.200	0.200	0.000
Y	0.000	745.142	745.142	2000.000	2000.000	0.000
Z	0.000	-0.699	-0.699	0.200	0.200	0.499
D	210.300	211.023	0.723	0.200	0.200	0.523
RN	0.000	0.184	0.184	0.200	0.000	0.000

⊞	MM	LOC-CC15 - CRC-CAV-7-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.007	-0.007	0.200	0.200	0.000
Y	0.000	852.213	852.213	2000.000	2000.000	0.000
Z	0.000	-0.599	-0.600	0.200	0.200	0.400
D	210.300	211.101	0.801	0.200	0.200	0.601
RN	0.000	0.180	0.180	0.200	0.000	0.000

⊞	MM	LOC-CC16 - CRC-CAV-7-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.014	-0.014	0.200	0.200	0.000
Y	0.000	861.072	861.072	2000.000	2000.000	0.000
Z	0.000	-0.531	-0.531	0.200	0.200	0.331
D	210.300	211.080	0.780	0.200	0.200	0.580
RN	0.000	0.211	0.211	0.200	0.000	0.011

⊞	MM	LOC-CC17 - CRC-CAV-8-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.030	0.030	0.200	0.200	0.000
Y	0.000	967.769	967.769	2000.000	2000.000	0.000
Z	0.000	-0.370	-0.371	0.200	0.200	0.171
D	210.300	211.137	0.836	0.200	0.200	0.636
RN	0.000	0.214	0.214	0.200	0.000	0.014

⌗	MM	LOC-CC18 - CRC-CAV-8-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.003	-0.004	0.200	0.200	0.000
Y	0.000	977.064	977.064	2000.000	2000.000	0.000
Z	0.000	-0.385	-0.385	0.200	0.200	0.185
D	210.300	211.051	0.750	0.200	0.200	0.550
RN	0.000	0.195	0.195	0.200	0.000	0.000

⌗	MM	LOC-CC19 - CRC-CAV-9-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.006	-0.006	0.200	0.200	0.000
Y	0.000	1083.493	1083.493	2000.000	2000.000	0.000
Z	0.000	-0.193	-0.193	0.200	0.200	0.000
D	210.300	211.103	0.803	0.200	0.200	0.603
RN	0.000	0.179	0.179	0.200	0.000	0.000

⌗	MM	LOC-CC20 - CRC-CAV-9-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.028	0.028	0.200	0.200	0.000
Y	0.000	1092.846	1092.846	2000.000	2000.000	0.000
Z	0.000	-0.158	-0.158	0.200	0.200	0.000
D	210.300	211.068	0.768	0.200	0.200	0.568
RN	0.000	0.203	0.203	0.200	0.000	0.003

⌗	MM	LOC-CC21 - CRC-VAC-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.196	-0.196	0.200	0.200	0.000
Y	1156.557	1120.898	-35.659	2000.000	2000.000	0.000
Z	0.000	-0.090	-0.091	0.200	0.200	0.000
D	235.000	234.770	-0.230	0.200	0.200	0.030
RN	0.000	0.052	0.052	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	1154.633	1154.633	2000.000	2000.000	0.000
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	111.000	110.802	-0.198	0.050	0.050	0.148
RN	0.000	0.025	0.025	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	-0.032	-0.032				
Z	0.000	-0.109	-0.109				
TP	RFS		0.228	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	0.023	0.022				
Z	0.000	-0.141	-0.141				
TP	RFS		0.286	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	0.009	0.009				
Z	0.000	-0.182	-0.182				
TP	RFS		0.365	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	0.008	0.007				
Z	0.000	-0.375	-0.375				
TP	RFS		0.750	0.400		0.350	0.000

⌖	MM	LOC-TP-CC6 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.017	0.017				
Z	0.000	-0.421	-0.421				
TP	RFS		0.843	0.400		0.443	0.000

⌖	MM	LOC-TP-CC7 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.032	-0.032				
Z	0.000	-0.564	-0.564				
TP	RFS		1.130	0.400		0.730	0.000

⌖	MM	LOC-TP-CC8 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.043	-0.043				
Z	0.000	-0.530	-0.530				
TP	RFS		1.063	0.400		0.663	0.000

⌖	MM	LOC-TP-CC9 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.086	-0.086				
Z	0.000	-0.665	-0.665				
TP	RFS		1.342	0.400		0.942	0.000

⌖	MM	LOC-TP-CC10 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.086	-0.086				
Z	0.000	-0.687	-0.687				
TP	RFS		1.385	0.400		0.985	0.000

⌖	MM	LOC-TP-CC11 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.087	-0.088				
Z	0.000	-0.719	-0.719				
TP	RFS		1.449	0.400		1.049	0.000

⌖	MM	LOC-TP-CC12 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.051	-0.051				
Z	0.000	-0.725	-0.725				
TP	RFS		1.453	0.400		1.053	0.000

⌖	MM	LOC-TP-CC13 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.032	-0.032				
Z	0.000	-0.640	-0.640				
TP	RFS		1.281	0.400		0.881	0.000

⌖	MM	LOC-TP-CC14 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.021	-0.021				
Z	0.000	-0.699	-0.699				
TP	RFS		1.399	0.400		0.999	0.000

⌖	MM	LOC-TP-CC15 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.007	-0.007				
Z	0.000	-0.599	-0.600				
TP	RFS		1.199	0.400		0.799	0.000

⌖	MM	LOC-TP-CC16 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.014	-0.014				
Z	0.000	-0.531	-0.531				
TP	RFS		1.062	0.400		0.662	0.000

⌖	MM	LOC-TP-CC17 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.030	0.030				
Z	0.000	-0.370	-0.371				
TP	RFS		0.743	0.400		0.343	0.000

⌖	MM	LOC-TP-CC18 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.003	-0.004				
Z	0.000	-0.385	-0.385				
TP	RFS		0.770	0.400		0.370	0.000

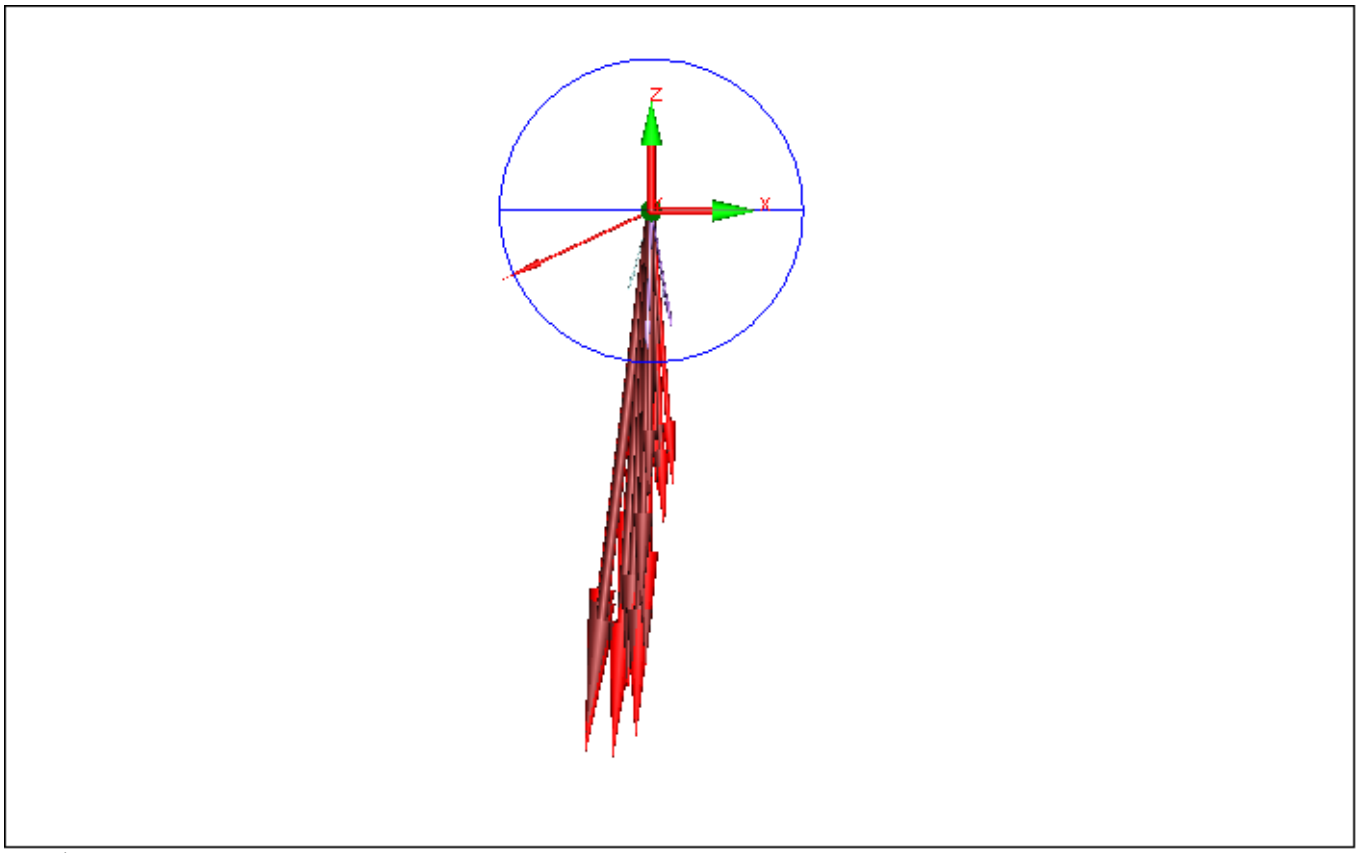
⌖	MM	LOC-TP-CC19 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.006	-0.006				
Z	0.000	-0.193	-0.193				
TP	RFS		0.386	0.400		0.000	0.000

⌖	MM	LOC-TP-CC20 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.028	0.028				
Z	0.000	-0.158	-0.158				
TP	RFS		0.321	0.400		0.000	0.000

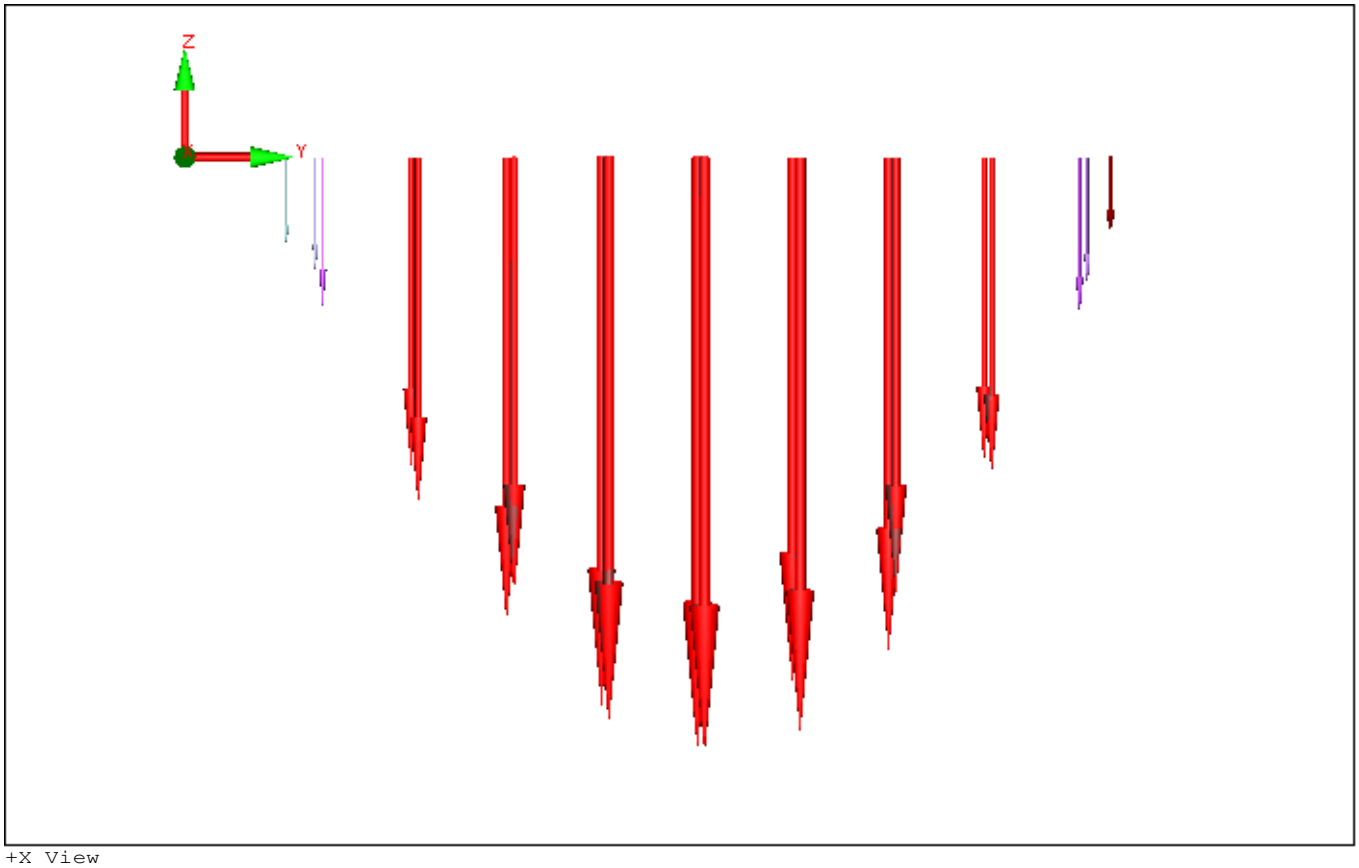
⌖	MM	LOC-TP-CC21 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.196	-0.196				
Z	0.000	-0.090	-0.091				
TP	RFS		0.431	0.400		0.031	0.000

⌖	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	

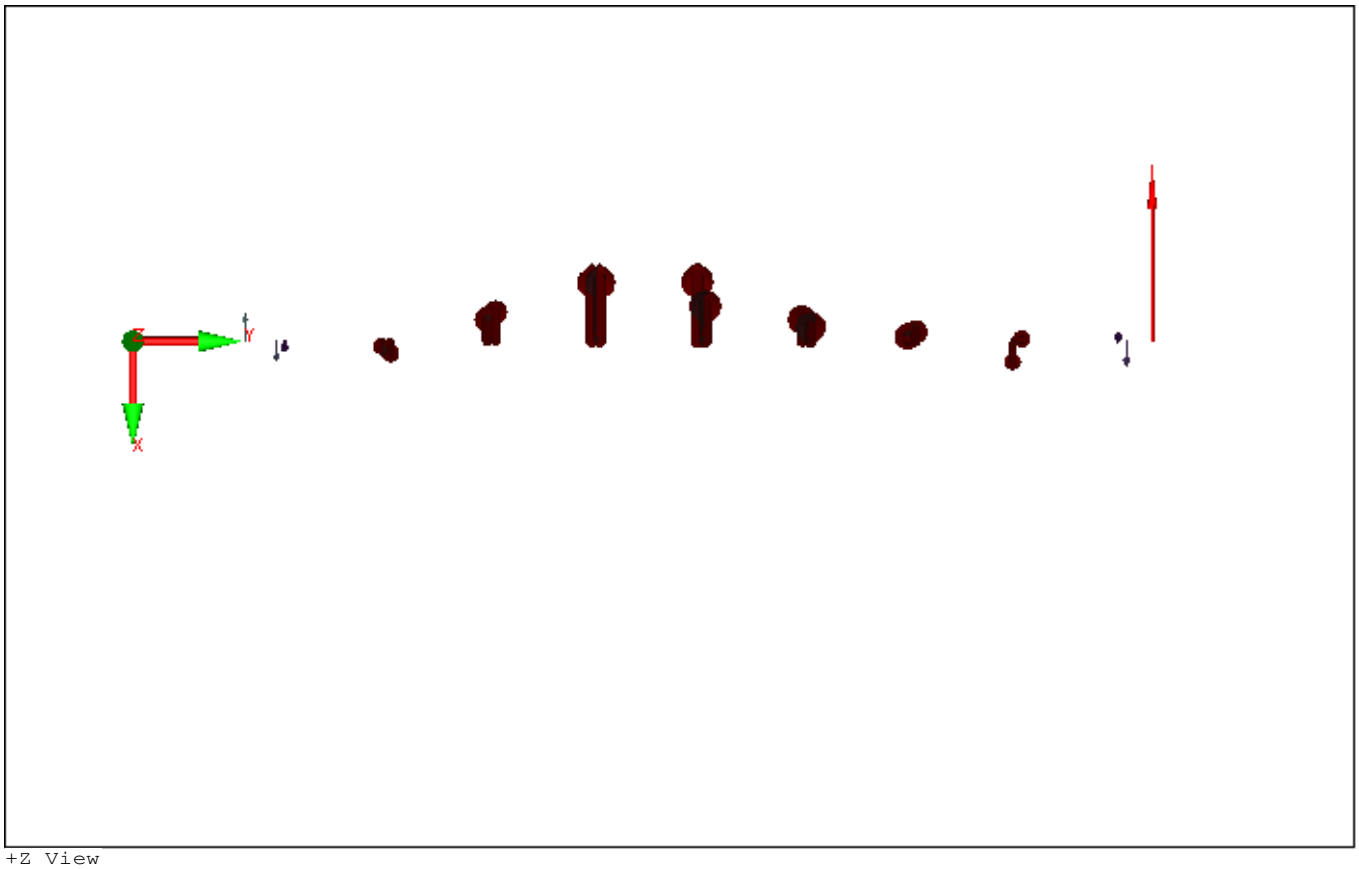
True Position plots from 3 views
x1000



-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	-0.026	-0.321	0.200	0.200	0.121
Y	658.560	624.879	-33.682	2000.000	2000.000	0.000
Z	0.000	-0.399	-0.399	0.200	0.200	0.199
ST	0.000	0.727	0.727	0.400	0.000	0.327

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	0.143	0.143	0.200	0.200	0.000
Y	0.000	219.234	219.234	2000.000	2000.000	0.000
Z	0.000	-0.319	-0.319	0.200	0.200	0.119
R	56.500	56.387	-0.113	0.200	0.200	0.000
RN	0.000	0.113	0.113	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	-0.158	-0.158	0.200	0.200	0.000
Y	0.000	334.821	334.821	2000.000	2000.000	0.000
Z	0.000	-0.338	-0.338	0.200	0.200	0.138
R	56.500	56.622	0.122	0.200	0.200	0.000
RN	0.000	0.076	0.076	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	-0.251	-0.251	0.200	0.200	0.051
Y	0.000	449.725	449.725	2000.000	2000.000	0.000
Z	0.000	-0.561	-0.561	0.200	0.200	0.361
R	56.500	56.620	0.120	0.200	0.200	0.000
RN	0.000	0.037	0.037	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	0.202	0.202	0.200	0.200	0.002
Y	0.000	565.338	565.338	2000.000	2000.000	0.000
Z	0.000	-0.676	-0.676	0.200	0.200	0.476
R	56.500	56.621	0.121	0.200	0.200	0.000
RN	0.000	0.225	0.225	0.200	0.000	0.025

⌖	MM	LOC-SUPPORT RING-P5 - CR_SUPPORT_RING_P56				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.376	0.376	0.200	0.200	0.176
Y	0.000	680.631	680.631	2000.000	2000.000	0.000
Z	0.000	-0.994	-0.994	0.200	0.200	0.794
R	56.500	56.469	-0.031	0.200	0.200	0.000
RN	0.000	0.252	0.252	0.200	0.000	0.052

⌖	MM	LOC-SUPPORT RING-P6 - CR_SUPPORT_RING_P67				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.139	-0.139	0.200	0.200	0.000
Y	0.000	796.032	796.032	2000.000	2000.000	0.000
Z	0.000	-0.487	-0.487	0.200	0.200	0.287
R	56.500	56.645	0.145	0.200	0.200	0.000
RN	0.000	0.026	0.026	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	0.557	0.557	0.200	0.200	0.357
Y	0.000	911.533	911.533	2000.000	2000.000	0.000
Z	0.000	-0.385	-0.385	0.200	0.200	0.185
R	56.500	56.326	-0.174	0.200	0.200	0.000
RN	0.000	0.149	0.149	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	0.028	0.028	0.200	0.200	0.000
Y	0.000	1027.332	1027.332	2000.000	2000.000	0.000
Z	0.000	-0.183	-0.184	0.200	0.200	0.000
R	56.500	56.544	0.044	0.200	0.200	0.000
RN	0.000	0.025	0.025	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	-1.207	-1.207	0.200	0.200	1.007
Y	255.357	219.218	-36.139	2000.000	2000.000	0.000
Z	0.000	-0.343	-0.344	0.200	0.200	0.144
R	56.500	56.311	-0.189	0.200	0.200	0.000
RN	0.000	0.218	0.218	0.200	0.000	0.018

⌗	MM	LOC_SUPPORT_RING_N2 - CR_SUPPORT_RING_N23				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.411	-0.411	0.200	0.200	0.211
Y	370.957	334.819	-36.138	2000.000	2000.000	0.000
Z	0.000	-0.546	-0.546	0.200	0.200	0.346
R	56.500	56.552	0.052	0.200	0.200	0.000
RN	0.000	0.134	0.134	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	-0.122	-0.122	0.200	0.200	0.000
Y	485.857	449.714	-36.143	2000.000	2000.000	0.000
Z	0.000	-0.908	-0.908	0.200	0.200	0.708
R	56.500	56.631	0.131	0.200	0.200	0.000
RN	0.000	0.096	0.096	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	0.159	0.158	0.200	0.200	0.000
Y	601.457	565.316	-36.141	2000.000	2000.000	0.000
Z	0.000	-0.568	-0.568	0.200	0.200	0.368
R	56.500	56.511	0.011	0.200	0.200	0.000
RN	0.000	0.035	0.035	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	0.055	0.055	0.200	0.200	0.000
Y	716.757	680.614	-36.143	2000.000	2000.000	0.000
Z	0.000	-0.877	-0.877	0.200	0.200	0.677
R	56.500	56.527	0.027	0.200	0.200	0.000
RN	0.000	0.017	0.017	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	0.078	0.078	0.200	0.200	0.000
Y	832.157	796.014	-36.143	2000.000	2000.000	0.000
Z	0.000	-0.450	-0.450	0.200	0.200	0.250
R	56.500	56.699	0.199	0.200	0.200	0.000
RN	0.000	0.201	0.201	0.200	0.000	0.001

⌖	MM	LOC_SUPPORT_RING_N7 - CR_SUPPORT_RING_N78				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.025	-0.025	0.200	0.200	0.000
Y	947.657	911.518	-36.139	2000.000	2000.000	0.000
Z	0.000	-0.479	-0.479	0.200	0.200	0.279
R	56.500	56.495	-0.005	0.200	0.200	0.000
RN	0.000	0.007	0.007	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	0.139	0.139	0.200	0.200	0.000
Y	1063.457	1027.336	-36.121	2000.000	2000.000	0.000
Z	0.000	-0.222	-0.222	0.200	0.200	0.022
R	56.500	56.470	-0.030	0.200	0.200	0.000
RN	0.000	0.018	0.018	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	0.282	0.282	0.400	0.000	0.000

◎	MM	CON_N12 - CR_SUPPORT_RING_N12 TO LINC_SUPPORT_RING_B12				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	2.433	2.433	0.400	0.000	2.033

◎	MM	CON_P23 - CR_SUPPORT_RING_P23 TO LINC_SUPPORT_RING_B23				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.429	0.429	0.400	0.000	0.029

◎	MM	CON_N23 - CR_SUPPORT_RING_N23 TO LINC_SUPPORT_RING_B23				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.815	0.815	0.400	0.000	0.415

◎	MM	CON_P34 - CR_SUPPORT_RING_P34 TO LINC_SUPPORT_RING_B34				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.382	0.382	0.400	0.000	0.000

◎	MM	CON_N34 - CR_SUPPORT_RING_N34 TO LINC_SUPPORT_RING_B34				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.637	0.637	0.400	0.000	0.237

◎	MM	CON_P45 - CR_SUPPORT_RING_P45 TO LINC_SUPPORT_RING_B45				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.579	0.579	0.400	0.000	0.179

◎	MM	CON_N45 - CR_SUPPORT_RING_N45 TO LINC_SUPPORT_RING_B45				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.559	0.559	0.400	0.000	0.159

◎	MM	CON_P56 - CR_SUPPORT_RING_P56 TO LINC_SUPPORT_RING_B56				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.042	1.042	0.400	0.000	0.642

◎	MM	CON_N56 - CR_SUPPORT_RING_N56 TO LINC_SUPPORT_RING_B56				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.432	0.432	0.400	0.000	0.032

◎	MM	CON_P67 - CR_SUPPORT_RING_P67 TO LINC_SUPPORT_RING_B67				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.413	0.413	0.400	0.000	0.013

◎	MM	CON_N67 - CR_SUPPORT_RING_N67 TO LINC_SUPPORT_RING_B67				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.444	0.444	0.400	0.000	0.044

◎	MM	CON_P78 - CR_SUPPORT_RING_P78 TO LINC_SUPPORT_RING_B78				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.110	1.110	0.400	0.000	0.710

◎	MM	CON_N78 - CR_SUPPORT_RING_N78 TO LINC_SUPPORT_RING_B78				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.079	0.079	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	0.231	0.231	0.400	0.000	0.000

◎	MM	CON_N89 - CR_SUPPORT_RING_N89 TO LINC_SUPPORT_RING_B89				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.322	0.322	0.400	0.000	0.000

↔	MM	A - PL-NEAR-END-FLANGE TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1247.400	1250.105	2.705	0.200	0.200	2.505	
↔	MM	B - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1061.060	1063.841	2.781	0.200	0.200	2.581	
↔	MM	C - PLC-DAT-1 TO CR_NW8_ANTENNA_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	32.240	32.186	-0.054	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	32.791	-0.109	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	54.373	0.573	0.200	0.200	0.373	
↔	MM	F - LNC-LEVEL TO PL NW 40 FLANGE (XAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	88.000	87.986	-0.014	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	28.386	-0.034	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	60.446	-0.154	0.200	0.200	0.000	
↔	MM	I2 - PL-NEAR-END-FLANGE TO CY-HOM-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1189.665	2.865	0.200	0.200	2.665	
↔	MM	I3 - PL-NEAR-END-FLANGE TO CR_NW_40_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1189.460	2.660	0.200	0.200	2.460	
∠	DEG	K - CY-HOM-1 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	30.000	30.059	0.059	0.500	0.500	0.000	
∠	DEG	L - CY-HOM-2 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	35.089	0.089	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	140.013	0.013	0.300	0.300	0.000	
⌖	MM	O2 - CR-FAR-END					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	140.000	139.994	-0.006	0.300	0.300	0.000	
⌖	MM	P1 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.184	0.884	0.050	0.050	0.834	
⌖	MM	P2 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.076	0.776	0.050	0.050	0.726	
⌖	MM	P3 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.112	0.812	0.050	0.050	0.762	
⌖	MM	P4 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.058	0.758	0.050	0.050	0.708	
⌖	MM	P5 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.171	0.871	0.050	0.050	0.821	
⌖	MM	P6 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.078	0.778	0.050	0.050	0.728	
⌖	MM	P7 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.114	0.813	0.050	0.050	0.763	
⌖	MM	P8 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.055	0.754	0.050	0.050	0.704	
⌖	MM	P9 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.113	0.813	0.050	0.050	0.763	
⌖	MM	P10 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.149	0.848	0.050	0.050	0.798	

⌖	MM	P11 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.087	0.786	0.050	0.050	0.736	
⌖	MM	P12 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.023	0.722	0.050	0.050	0.672	
⌖	MM	P13 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.101	0.801	0.050	0.050	0.751	
⌖	MM	P14 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.080	0.779	0.050	0.050	0.729	
⌖	MM	P15 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.137	0.836	0.050	0.050	0.786	
⌖	MM	P16 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.051	0.750	0.050	0.050	0.700	
⌖	MM	P17 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.103	0.803	0.050	0.050	0.753	
⌖	MM	P18 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.068	0.768	0.050	0.050	0.718	
⌖	MM	Q1 - CR_SUPPORT_RING_P12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.387	-0.113	0.080	0.080	0.033	
⌖	MM	Q2 - CR_SUPPORT_RING_P23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.622	0.122	0.080	0.080	0.042	
⌖	MM	Q3 - CR_SUPPORT_RING_P34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.620	0.120	0.080	0.080	0.040	
⌖	MM	Q4 - CR_SUPPORT_RING_P45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.621	0.121	0.080	0.080	0.041	
⌖	MM	Q5 - CR_SUPPORT_RING_P56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.469	-0.031	0.080	0.080	0.000	

⌖	MM	Q6 - CR_SUPPORT_RING_P67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.645	0.145	0.080	0.080	0.065	
⌖	MM	Q7 - CR_SUPPORT_RING_P78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.326	-0.174	0.080	0.080	0.094	
⌖	MM	Q8 - CR_SUPPORT_RING_P89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.544	0.044	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	210.964	19.764	0.200	0.200	19.564	
⌖	MM	R2 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	200.000	234.770	34.770	0.200	0.200	34.570	

◎	MM	U1 - CR-NEAR-END-FLANGE TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.355	0.355	0.400	0.000	0.000

◎	MM	U2 - CR-FAR-END TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.501	0.501	0.400	0.000	0.101

◎	MM	U3 - CRC-CAV-1-1 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.286	0.286	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	0.365	0.365	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	0.750	0.750	0.400	0.000	0.350

◎	MM	U6 - CRC-CAV-2-2 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.842	0.842	0.400	0.000	0.442

◎	MM	U7 - CRC-CAV-3-1 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.130	1.130	0.400	0.000	0.730

◎	MM	U8 - CRC-CAV-3-2 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.063	1.063	0.400	0.000	0.663

◎	MM	U9 - CRC-CAV-4-1 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.342	1.342	0.400	0.000	0.942

◎	MM	U10 - CRC-CAV-4-2 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.385	1.385	0.400	0.000	0.985

◎	MM	U11 - CRC-CAV-5-1 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.449	1.449	0.400	0.000	1.049

◎	MM	U12 - CRC-CAV-5-2 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.453	1.453	0.400	0.000	1.053

◎	MM	U13 - CRC-CAV-6-1 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.281	1.281	0.400	0.000	0.881

◎	MM	U14 - CRC-CAV-6-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.399	1.399	0.400	0.000	0.999	
◎	MM	U15 - CRC-CAV-7-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.199	1.199	0.400	0.000	0.799	
◎	MM	U16 - CRC-CAV-7-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.062	1.062	0.400	0.000	0.662	
◎	MM	U17 - CRC-CAV-8-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.743	0.743	0.400	0.000	0.343	
◎	MM	U18 - CRC-CAV-8-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.770	0.770	0.400	0.000	0.370	
◎	MM	U19 - CRC-CAV-9-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.386	0.386	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	0.321	0.321	0.400	0.000	0.000	
◎	MM	U21 - CR_SUPPORT_RING_P12 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.699	0.699	0.400	0.000	0.299	
◎	MM	U22 - CR_SUPPORT_RING_P23 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.745	0.745	0.400	0.000	0.345	
◎	MM	U23 - CR_SUPPORT_RING_P34 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.229	1.229	0.400	0.000	0.829	
◎	MM	U24 - CR_SUPPORT_RING_P45 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.412	1.412	0.400	0.000	1.012	
◎	MM	U25 - CR_SUPPORT_RING_P56 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.126	2.126	0.400	0.000	1.726	
◎	MM	U26 - CR_SUPPORT_RING_P67 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.013	1.013	0.400	0.000	0.613	

◎	MM	U27 - CR_SUPPORT_RING_P78 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.355	1.355	0.400	0.000	0.955	
◎	MM	U28 - CR_SUPPORT_RING_P89 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.371	0.371	0.400	0.000	0.000	
◎	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	0.228	0.228	0.400	0.000	0.000	

◎	MM	U40 - CRC-VAC-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.431	0.431	0.400	0.000	0.031	
⊥	MM	V1 - PL-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.278	0.278	0.200	0	0.078	
⊥	MM	V2 - PL-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.296	0.296	0.200	0	0.096	