pc-dmis	PART NAME : PN440004-n ILC 1p3GHZ RF CAVITY ASSEMBLY 000 TB9RI029 v5z IR		January 19, 2010	16:18
	REV NUMBER :	SER NUMBER :	STATS COUNT :	1

440004-n
FNAL 1.3GHZ TESLA
RF CAVITY
ASSEMBLY
@ 000 rotation
'Inspected by ' : Robert Riley
'Cavity Number' : TB9RI018
' ' : 1001181116

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	0.016	0.016	0.200	0.000	0.000	

AX	I	J	K
V	-0.001	-1.000	0.003

//	MM	PARL1 - PL-NEAR-END-FLANGE TO YMINUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.352	0.352	0.200	0	0.152	

∠	DEG	ANGL1 - PL-NEAR-END-FLANGE TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.826	-0.174	0.100	0.100	-0.074	

⌗	MM	LOC2 - CR-NEAR-END-FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.100	-0.101	0.200	0.200	0.000	
Z	0.000	0.255	0.254	0.200	0.200	0.054	
D	140.000	140.073	0.073	0.300	0.300	0.000	
RN	0.000	0.006	0.006	0.200	0.000	0.000	

⌗	MM	LOC3 - PL-FAR-END					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	1247.400	1245.153	-2.247	3.000	3.000	0.000	
FL	0.000	0.045	0.045	0.200	0.000	0.000	

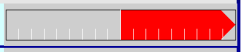
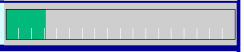
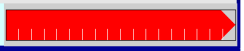
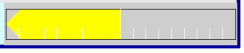
AX	I	J	K
V	0.002	1.000	0.004

//	MM	PARL2 - PL-FAR-END TO YPLUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.590	0.590	0.200	0	0.390	

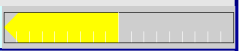
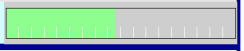
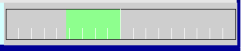
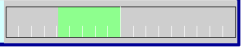
∠	DEG	ANGL2 - PL-FAR-END TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.726	-0.274	0.100	0.100	-0.174	

⌗	MM	LOC4 - CR-FAR-END					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.103	-0.103	0.200	0.200	0.000	
Z	0.000	0.407	0.407	0.200	0.200	0.207	
D	140.000	140.068	0.068	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	93.110	0.270	0.200	0.200	0.070	
FL	0.000	0.035	0.035	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	0.220	0.220	0.200	0	0.020	
∡	DEG	ANGL7 - PLC-DAT-1 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.889	-0.111	0.100	0.100	-0.011	

DATUM-2-PLANE

⌗	MM	LOC-DATUM-2-PLANE - PLC-DAT-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	1154.560	1151.761	-2.799	0.200	0.200	2.599	
FL	0.000	0.054	0.054	0.200	0.000	0.000	
AX		I		J		K	
V		-0.001		1.000		0.000	
//	MM	PARL6 - PLC-DAT-2 TO YPLUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.095	0.095	0.200	0	0.000	
∡	DEG	ANGL8 - PLC-DAT-2 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.953	-0.047	0.100	0.100	0.000	
⟷	MM	DIST3 - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1061.060	1058.651	-2.409	0.200	0.200	-2.209	
⟷	MM	DIST4 - PLC-DAT-2 TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	93.500	93.392	-0.108	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	-53.861	-0.062	0.200	0.200	0.000
FL	0.000	0.001	0.001	0.200	0.000	0.000

AX	I	J	K
V	-1.000	0.004	0.018

//	MM	PARL3 - PL NW8 ANTENNA FLANGE TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.530	0.530	0.200	0	0.330

∠	DEG	ANGL3 - PL NW8 ANTENNA FLANGE TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	88.969	-1.031	0.100	0.100	-0.931

⌖	MM	LOC6 - CR_NW8_ANTENNA_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	60.600	60.791	0.191	0.200	0.200	0.000
Z	0.000	0.682	0.682	0.200	0.200	0.482
D	33.800	33.826	0.026	0.150	0.000	0.000
RN	0.000	0.019	0.019	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	87.951	-0.049	0.200	0.200	0.000
FL	0.000	0.034	0.034	0.200	0.000	0.000

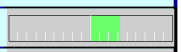
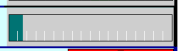
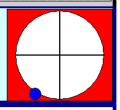
AX	I	J	K
V	1.000	0.003	-0.003

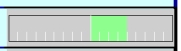
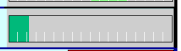
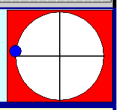
//	MM	PARL4 - PL NW 40 FLANGE TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.300	0.300	0.200	0	0.100

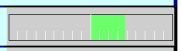
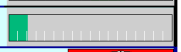
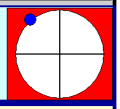
∠	DEG	ANGL4 - PL NW 40 FLANGE TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.754	-0.246	0.100	0.100	-0.146

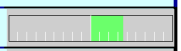
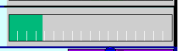
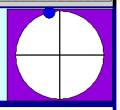
⌖	MM	LOC8 - CR_NW_40_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1186.800	1184.829	-1.971	0.200	0.200	1.771
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	76.000	76.003	0.003	0.200	0.000	0.000
RN	0.000	0.021	0.021	0.200	0.000	0.000

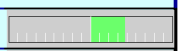
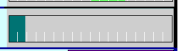
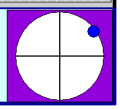
↔	MM	DIST1 - CR_NW_40_FLANGE TO PL-FAR-END (YAXIS)				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	60.600	60.324	-0.276	0.200	0.200	-0.076

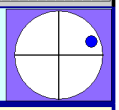
⌖	MM	TP NW40 MC BH1 - CR NW 40 FLANGE BH1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.660	-0.090					
PA	112.500	112.734	0.234					
DF	6.700	6.773	0.073	0.200	0.200	0.000	0.000	
RN	0.000	0.017	0.017	0.200	0.000	0.000		
TP	RFS		0.316	0.300		0.016	0.000	

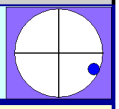
⌖	MM	TP NW40 MC BH2 - CR NW 40 FLANGE BH2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.708	-0.042					
PA	67.500	67.762	0.262					
DF	6.700	6.789	0.089	0.200	0.200	0.000	0.000	
RN	0.000	0.025	0.025	0.200	0.000	0.000		
TP	RFS		0.302	0.300		0.002	0.000	

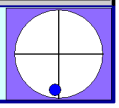
⌖	MM	TP NW40 MC BH3 - CR NW 40 FLANGE BH3						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.701	-0.049					
PA	22.500	22.765	0.265					
DF	6.700	6.784	0.084	0.200	0.200	0.000	0.000	
RN	0.000	0.024	0.024	0.200	0.000	0.000		
TP	RFS		0.310	0.300		0.010	0.000	

⌖	MM	TP NW40 MC BH4 - CR NW 40 FLANGE BH4						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.662	-0.088					
PA	-22.500	-22.287	-359.787					
DF	6.700	6.780	0.080	0.200	0.200	0.000	0.000	
RN	0.000	0.042	0.042	0.200	0.000	0.000		
TP	RFS		0.294	0.300		0.000	0.000	

⌖	MM	TP NW40 MC BH5 - CR NW 40 FLANGE BH5						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.717	-0.033					
PA	-67.500	-67.250	-359.750					
DF	6.700	6.785	0.085	0.200	0.200	0.000	0.000	
RN	0.000	0.021	0.021	0.200	0.000	0.000		
TP	RFS		0.285	0.300		0.000	0.000	

	MM	TP NW40 MC BH6 - CR NW 40 FLANGE BH6						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.667	-0.083					
PA	-112.500	-112.348	-359.848					
DF	6.700	6.776	0.076	0.200	0.200	0.000	0.000	
RN	0.000	0.028	0.028	0.200	0.000	0.000		
TP	RFS		0.237	0.300		0.000	0.000	

	MM	TP NW40 MC BH7 - CR NW 40 FLANGE BH7						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.662	-0.088					
PA	-157.500	-157.327	-359.827					
DF	6.700	6.781	0.081	0.200	0.200	0.000	0.000	
RN	0.000	0.026	0.026	0.200	0.000	0.000		
TP	RFS		0.261	0.300		0.000	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	157.710	0.210					
DF	6.700	6.776	0.076	0.200	0.200	0.000	0.000	
RN	0.000	0.048	0.048	0.200	0.000	0.000		
TP	RFS		0.242	0.300		0.000	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	-0.544	0.264	0.797

	DEG	ANGL6 - PL-NW12-FLANGE-HOM2 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	55.694	20.694	0.500	0.500	20.194	

	MM	LOC9 - CR-NW12-FLANGE-HOM2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-72.152	-72.152	100.000	100.000	0.000	
Y	0.000	1188.022	1188.022	2000.000	2000.000	0.000	
Z	0.000	-7.950	-7.950	100.000	100.000	0.000	
D	33.800	33.722	-0.078	0.150	0.000	0.078	
RN	0.000	0.082	0.082	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	28.428	0.008	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	28.430	0.010	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	105.288	90.288	0.500	0.500	89.788	

HOM 1 LOCATION

⊕	MM	LOC-HOM1 - CY-HOM-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	68.406	68.406	100.000	100.000	0.000	
Y	60.600	60.535	-0.065	0.200	0.200	0.000	
Z	0.000	-40.786	-40.786	100.000	100.000	0.000	
D	44.000	43.899	-0.101	0.000	0.100	0.001	
RN	0.000	0.060	0.060	0.100	0.000	0.000	

AX	I	J	K
V	-0.862	-0.002	0.508

∠	DEG	ANGL9 - CY-HOM-1 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	30.000	30.506	0.506	0.500	0.500	0.006	

∠	DEG	ANGL10 - CY-HOM-1 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	-90.000	-89.906	0.094	0.500	0.500	0.000	

∠	DEG	ANGL11 - CY-HOM-1 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	60.000	59.494	-0.506	0.500	0.500	-0.006	

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	60.405	-0.195	0.200	0.200	0.000	
Z	0.000	-0.482	-0.482	0.200	0.200	0.282	

▱	MM	LOC_HOM1_FLANGE_A - PL_NW12_FLANGE_HOM1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.002	0.002	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	-0.494	-0.251	-0.832

	DEG	ANGL17 - PL_NW12_FLANGE_HOM1 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	15.000	106.800	91.800	0.500	0.500	91.300	

	MM	LOC_HOM1_FLANGE_D - CR_NW12_FLANGE_HOM1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	40.497	38.933	-1.564	100.000	100.000	0.000	
Y	92.086	57.912	-34.174	100.000	100.000	0.000	
Z	-56.755	-60.220	-3.465	100.000	100.000	0.000	
D	33.800	33.719	-0.081	0.150	0.150	0.000	
RN	0.000	0.052	0.052	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	-64.946	-64.946	100.000	100.000	0.000	
Y	1186.800	1184.651	-2.149	3.000	3.000	0.000	
Z	0.000	-44.776	-44.776	100.000	100.000	0.000	
D	44.000	43.932	-0.068	0.000	0.100	0.000	
RN	0.000	0.046	0.046	0.100	0.000	0.000	

AX	I	J	K
V	-0.826	0.001	-0.563

	MM	DIST2 - CY-HOM-2 TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	60.600	60.502	-0.098	0.200	0.200	0.000	

	DEG	ANGL12 - CY-HOM-2 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	34.273	-0.727	0.500	0.500	-0.227	

	DEG	ANGL13 - CY-HOM-2 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	-90.000	-89.942	0.058	0.500	0.500	0.000	

	DEG	ANGL14 - CY-HOM-2 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	55.000	55.727	0.727	0.500	0.500	0.227	

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	1184.571	-2.229	3.000	3.000	0.000	
Z	0.000	-0.518	-0.518	0.200	0.200	0.318	

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

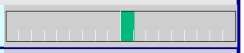
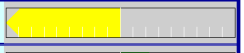
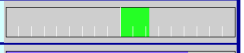
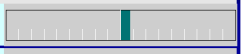
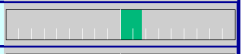
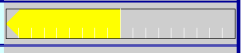
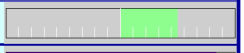
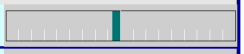
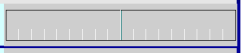
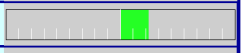
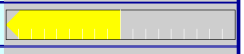
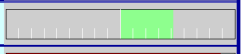
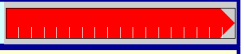
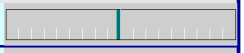
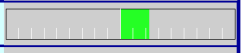
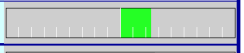
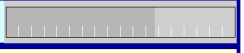
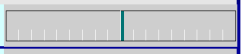
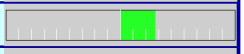
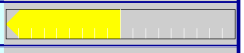
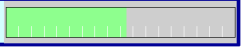
⌖	MM	LOC-CC1 - CRC-DAT-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.000	0.000	0.200	0.200	0.000	
Y	0.000	95.103	95.103	2000.000	2000.000	0.000	
Z	0.000	0.000	0.000	0.200	0.200	0.000	
D	111.000	110.922	-0.077	0.050	0.050	0.027	
RN	0.000	0.011	0.011	0.050	0.000	0.000	

⌖	MM	LOC-CC2 - CRC-VAC-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.036	0.035	0.200	0.200	0.000	
Y	158.307	123.599	-34.708	2000.000	2000.000	0.000	
Z	0.000	0.014	0.013	0.200	0.200	0.000	
D	211.000	210.287	-0.713	0.200	0.200	0.513	
RN	0.000	0.078	0.078	0.200	0.000	0.000	

⌖	MM	LOC-CC3 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.018	-0.018	0.200	0.200	0.000	
Y	0.000	156.309	156.309	2000.000	2000.000	0.000	
Z	0.000	-0.133	-0.133	0.200	0.200	0.000	
D	210.300	210.336	0.036	0.200	0.200	0.000	
RN	0.000	0.105	0.105	0.200	0.000	0.000	

⌖	MM	LOC-CC4 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.026	-0.026	0.200	0.200	0.000	
Y	0.000	168.528	168.528	2000.000	2000.000	0.000	
Z	0.000	-0.201	-0.201	0.200	0.200	0.001	
D	210.300	210.332	0.032	0.200	0.200	0.000	
RN	0.000	0.129	0.129	0.200	0.000	0.000	

⌖	MM	LOC-CC5 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.002	-0.002	0.200	0.200	0.000	
Y	0.000	271.444	271.444	2000.000	2000.000	0.000	
Z	0.000	-0.346	-0.346	0.200	0.200	0.146	
D	210.300	210.340	0.040	0.200	0.200	0.000	
RN	0.000	0.104	0.104	0.200	0.000	0.000	

⌖	MM	LOC-CC6 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.025	0.025	0.200	0.200	0.000	
Y	0.000	283.380	283.380	2000.000	2000.000	0.000	
Z	0.000	-0.327	-0.327	0.200	0.200	0.127	
D	210.300	210.351	0.051	0.200	0.200	0.000	
RN	0.000	0.159	0.159	0.200	0.000	0.000	
⌖	MM	LOC-CC7 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.017	0.017	0.200	0.200	0.000	
Y	0.000	386.932	386.932	2000.000	2000.000	0.000	
Z	0.000	-0.557	-0.557	0.200	0.200	0.357	
D	210.300	210.401	0.101	0.200	0.200	0.000	
RN	0.000	0.184	0.184	0.200	0.000	0.000	
⌖	MM	LOC-CC8 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.014	-0.014	0.200	0.200	0.000	
Y	0.000	398.883	398.883	2000.000	2000.000	0.000	
Z	0.000	-0.570	-0.570	0.200	0.200	0.370	
D	210.300	210.421	0.121	0.200	0.200	0.000	
RN	0.000	0.182	0.182	0.200	0.000	0.000	
⌖	MM	LOC-CC9 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.002	0.002	0.200	0.200	0.000	
Y	0.000	502.509	502.509	2000.000	2000.000	0.000	
Z	0.000	-0.677	-0.677	0.200	0.200	0.477	
D	210.300	210.393	0.093	0.200	0.200	0.000	
RN	0.000	0.278	0.278	0.200	0.000	0.078	
⌖	MM	LOC-CC10 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.006	-0.006	0.200	0.200	0.000	
Y	0.000	514.693	514.693	2000.000	2000.000	0.000	
Z	0.000	-0.658	-0.658	0.200	0.200	0.458	
D	210.300	210.354	0.054	0.200	0.200	0.000	
RN	0.000	0.130	0.130	0.200	0.000	0.000	
⌖	MM	LOC-CC11 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.007	0.006	0.200	0.200	0.000	
Y	0.000	618.241	618.241	2000.000	2000.000	0.000	
Z	0.000	-0.668	-0.668	0.200	0.200	0.468	
D	210.300	210.282	-0.018	0.200	0.200	0.000	
RN	0.000	0.105	0.105	0.200	0.000	0.000	

⌖	MM	LOC-CC12 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.014	-0.014	0.200	0.200	0.000	
Y	0.000	629.774	629.774	2000.000	2000.000	0.000	
Z	0.000	-0.680	-0.681	0.200	0.200	0.481	
D	210.300	210.335	0.035	0.200	0.200	0.000	
RN	0.000	0.080	0.080	0.200	0.000	0.000	

⌖	MM	LOC-CC13 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.015	-0.015	0.200	0.200	0.000	
Y	0.000	732.521	732.521	2000.000	2000.000	0.000	
Z	0.000	-0.614	-0.615	0.200	0.200	0.415	
D	210.300	210.341	0.041	0.200	0.200	0.000	
RN	0.000	0.104	0.104	0.200	0.000	0.000	

⌖	MM	LOC-CC14 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.004	-0.004	0.200	0.200	0.000	
Y	0.000	744.297	744.297	2000.000	2000.000	0.000	
Z	0.000	-0.612	-0.612	0.200	0.200	0.412	
D	210.300	210.401	0.101	0.200	0.200	0.000	
RN	0.000	0.097	0.097	0.200	0.000	0.000	

⌖	MM	LOC-CC15 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.003	0.002	0.200	0.200	0.000	
Y	0.000	848.079	848.079	2000.000	2000.000	0.000	
Z	0.000	-0.503	-0.503	0.200	0.200	0.303	
D	210.300	210.437	0.136	0.200	0.200	0.000	
RN	0.000	0.101	0.101	0.200	0.000	0.000	

⌖	MM	LOC-CC16 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.016	-0.016	0.200	0.200	0.000	
Y	0.000	859.606	859.606	2000.000	2000.000	0.000	
Z	0.000	-0.515	-0.515	0.200	0.200	0.315	
D	210.300	210.457	0.157	0.200	0.200	0.000	
RN	0.000	0.191	0.191	0.200	0.000	0.000	

⌖	MM	LOC-CC17 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.059	-0.059	0.200	0.200	0.000	
Y	0.000	963.470	963.470	2000.000	2000.000	0.000	
Z	0.000	-0.302	-0.302	0.200	0.200	0.102	
D	210.300	210.433	0.132	0.200	0.200	0.000	
RN	0.000	0.179	0.179	0.200	0.000	0.000	

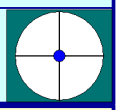
⌖	MM	LOC-CC18 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.025	-0.025	0.200	0.200	0.000	
Y	0.000	973.927	973.927	2000.000	2000.000	0.000	
Z	0.000	-0.295	-0.295	0.200	0.200	0.095	
D	210.300	210.384	0.083	0.200	0.200	0.000	
RN	0.000	0.127	0.127	0.200	0.000	0.000	

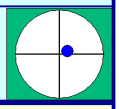
⌖	MM	LOC-CC19 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.015	-0.015	0.200	0.200	0.000	
Y	0.000	1077.548	1077.548	2000.000	2000.000	0.000	
Z	0.000	0.000	0.000	0.200	0.200	0.000	
D	210.300	210.311	0.010	0.200	0.200	0.000	
RN	0.000	0.150	0.150	0.200	0.000	0.000	

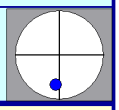
⌖	MM	LOC-CC20 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.022	-0.022	0.200	0.200	0.000	
Y	0.000	1089.385	1089.385	2000.000	2000.000	0.000	
Z	0.000	0.024	0.024	0.200	0.200	0.000	
D	210.300	210.365	0.065	0.200	0.200	0.000	
RN	0.000	0.243	0.243	0.200	0.000	0.043	

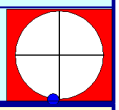
⌖	MM	LOC-CC21 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.038	0.038	0.200	0.200	0.000	
Y	1156.557	1121.757	-34.800	2000.000	2000.000	0.000	
Z	0.000	-0.030	-0.030	0.200	0.200	0.000	
D	235.000	234.409	-0.591	0.200	0.200	0.391	
RN	0.000	0.204	0.204	0.200	0.000	0.004	

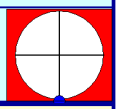
⌖	MM	LOC-CC22 - CRC-DAT-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.000	0.000	0.200	0.200	0.000	
Y	0.000	1149.751	1149.751	2000.000	2000.000	0.000	
Z	0.000	0.000	0.000	0.200	0.200	0.000	
D	111.000	110.909	-0.090	0.050	0.050	0.040	
RN	0.000	0.024	0.024	0.050	0.000	0.000	

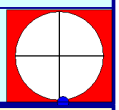
⌖	MM	LOC-TP-CC1 - CRC-DAT-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	0.000	0.000					
Z	0.000	0.000	0.000					
TP	RFS		0.000	0.400		0.000	0.000	

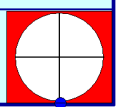
⌖	MM	LOC-TP-CC2 - CRC-VAC-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	0.036	0.035					
Z	0.000	0.014	0.013					
TP	RFS		0.076	0.400		0.000	0.000	

⌖	MM	LOC-TP-CC3 - CRC-CAV-1-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	-0.018	-0.018					
Z	0.000	-0.133	-0.133					
TP	RFS		0.269	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	-0.026	-0.026					
Z	0.000	-0.201	-0.201					
TP	RFS		0.405	0.400		0.005	0.000	

⌖	MM	LOC-TP-CC5 - CRC-CAV-2-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	-0.002	-0.002					
Z	0.000	-0.346	-0.346					
TP	RFS		0.692	0.400		0.292	0.000	

⌖	MM	LOC-TP-CC6 - CRC-CAV-2-2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	0.025	0.025					
Z	0.000	-0.327	-0.327					
TP	RFS		0.656	0.400		0.256	0.000	

⌖	MM	LOC-TP-CC7 - CRC-CAV-3-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	0.017	0.017					
Z	0.000	-0.557	-0.557					
TP	RFS		1.114	0.400		0.714	0.000	

⌖	MM	LOC-TP-CC8 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.014	-0.014				
Z	0.000	-0.570	-0.570				
TP	RFS		1.141	0.400		0.741	0.000

⌖	MM	LOC-TP-CC9 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.002	0.002				
Z	0.000	-0.677	-0.677				
TP	RFS		1.353	0.400		0.953	0.000

⌖	MM	LOC-TP-CC10 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.006	-0.006				
Z	0.000	-0.658	-0.658				
TP	RFS		1.316	0.400		0.916	0.000

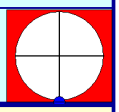
⌖	MM	LOC-TP-CC11 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.007	0.006				
Z	0.000	-0.668	-0.668				
TP	RFS		1.337	0.400		0.937	0.000

⌖	MM	LOC-TP-CC12 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.014	-0.014				
Z	0.000	-0.680	-0.681				
TP	RFS		1.361	0.400		0.961	0.000

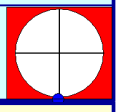
⌖	MM	LOC-TP-CC13 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.015	-0.015				
Z	0.000	-0.614	-0.615				
TP	RFS		1.229	0.400		0.829	0.000

⌖	MM	LOC-TP-CC14 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.004	-0.004				
Z	0.000	-0.612	-0.612				
TP	RFS		1.224	0.400		0.824	0.000

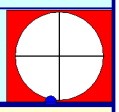
⌖	MM	LOC-TP-CC15 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.003	0.002				
Z	0.000	-0.503	-0.503				
TP	RFS		1.006	0.400		0.606	0.000



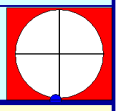
⌖	MM	LOC-TP-CC16 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.016	-0.016				
Z	0.000	-0.515	-0.515				
TP	RFS		1.031	0.400		0.631	0.000



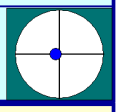
⌖	MM	LOC-TP-CC17 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.059	-0.059				
Z	0.000	-0.302	-0.302				
TP	RFS		0.615	0.400		0.215	0.000



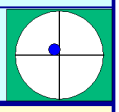
⌖	MM	LOC-TP-CC18 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.025	-0.025				
Z	0.000	-0.295	-0.295				
TP	RFS		0.591	0.400		0.191	0.000



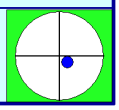
⌖	MM	LOC-TP-CC19 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.015	-0.015				
Z	0.000	0.000	0.000				
TP	RFS		0.031	0.400		0.000	0.000

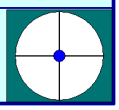


⌖	MM	LOC-TP-CC20 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.022	-0.022				
Z	0.000	0.024	0.024				
TP	RFS		0.064	0.400		0.000	0.000

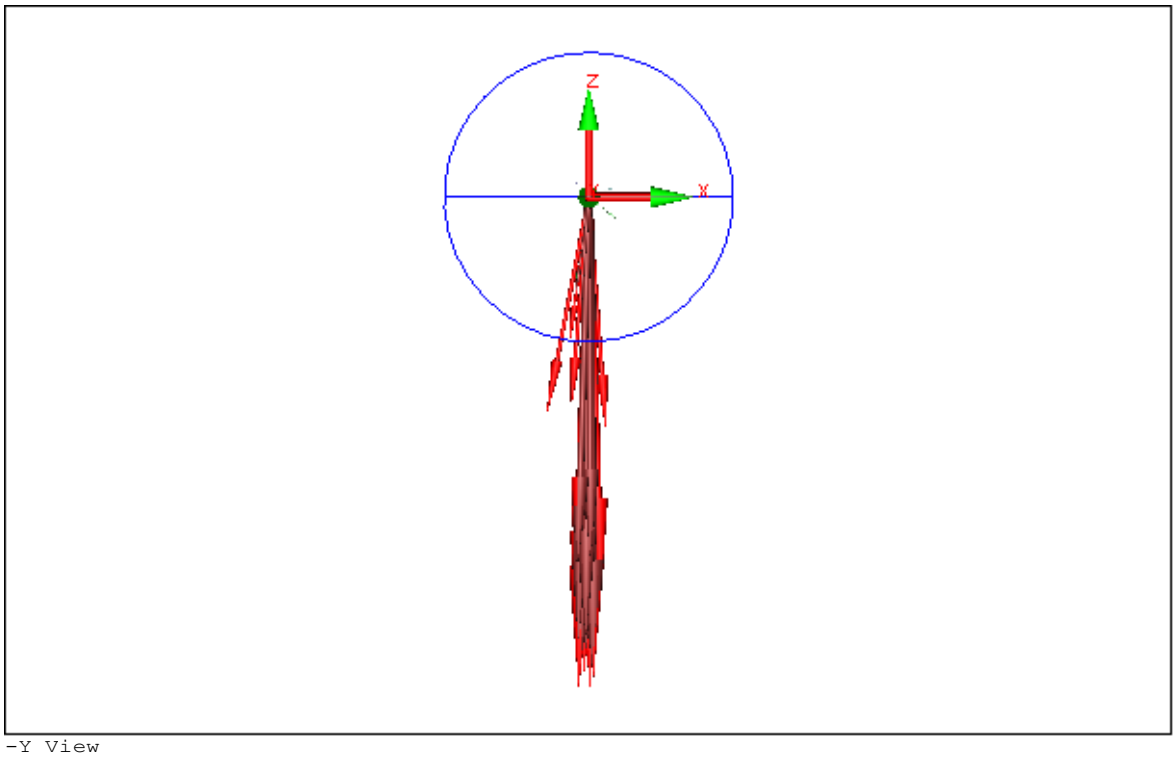


⌖	MM	LOC-TP-CC21 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.038	0.038				
Z	0.000	-0.030	-0.030				
TP	RFS		0.097	0.400		0.000	0.000

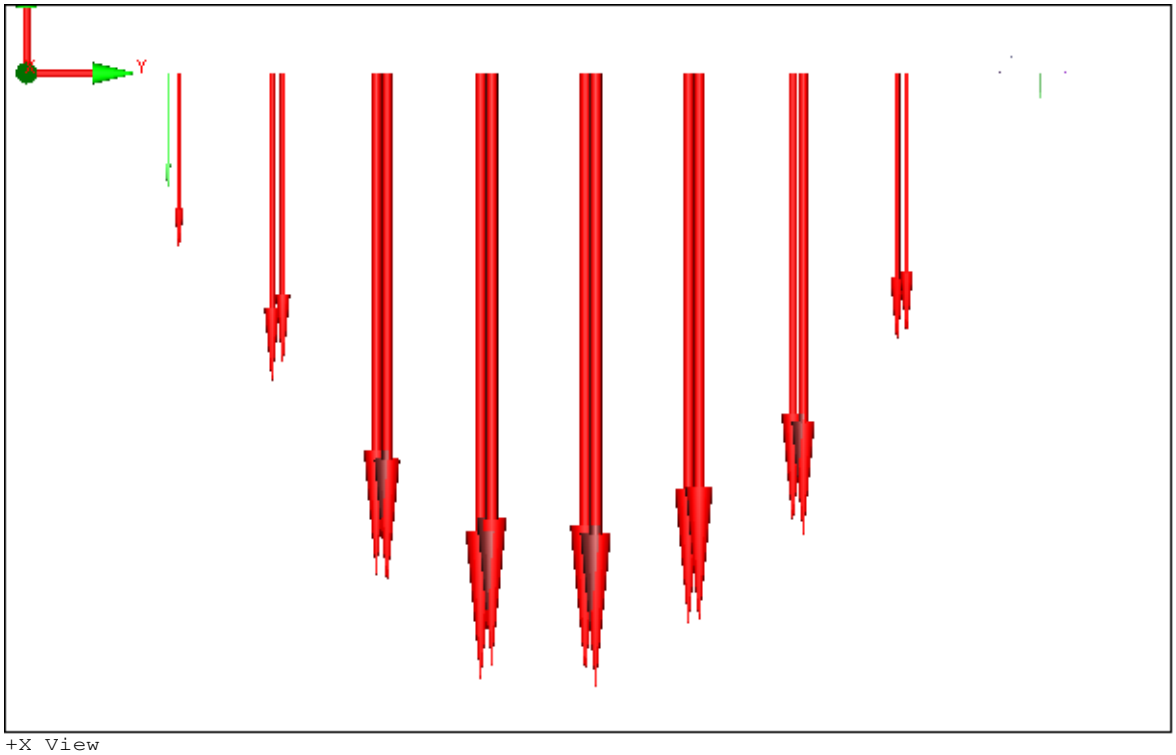


⌖	MM	LOC-TP-CC22 - CRC-DAT-2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	0.000	0.000					
Z	0.000	0.000	0.000					
TP	RFS		0.000	0.400		0.000	0.000	

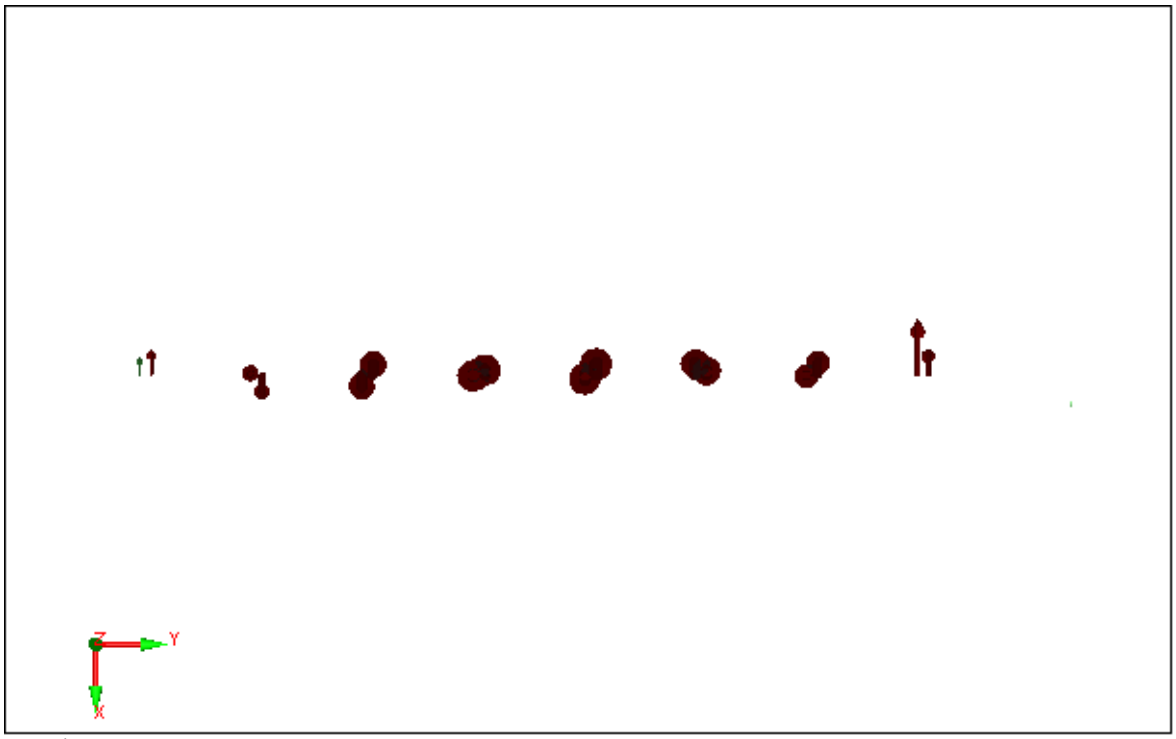
True Position plots from 3 views
x1000



-Y View
x1000



+X View
x1000



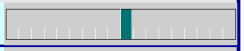
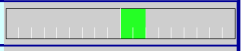
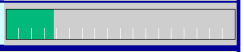
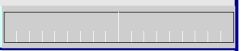
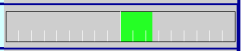
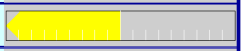
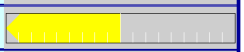
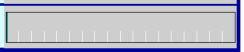
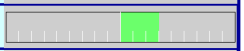
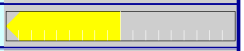
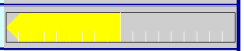
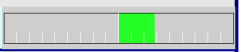
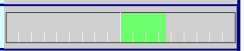
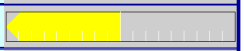
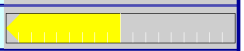
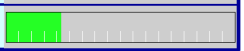
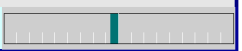
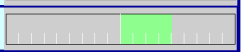
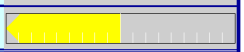
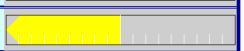
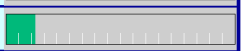
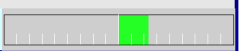
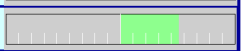
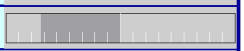
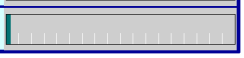
+Z View
x1000

⌗	MM	LOC-BEST FIT CONSTRUCTED LINE - LNC-BEST-FIT					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.295	-0.005	-0.300	0.200	0.200	0.100	
Y	658.560	623.170	-35.390	2000.000	2000.000	0.000	
Z	0.000	-0.348	-0.348	0.200	0.200	0.148	
ST	0.000	0.735	0.735	0.400	0.000	0.335	

SUPPORT RING CIRCLE LOCATIONS
Top (positive -Z-) side

⌗	MM	LOC-SUPPORT RING-T1 - CR-SUPPORT-RING-T12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.035	0.035	0.200	0.200	0.000	
Y	0.000	219.361	219.361	2000.000	2000.000	0.000	
Z	0.000	-0.175	-0.175	0.200	0.200	0.000	
R	56.500	56.069	-0.431	0.200	0.200	0.231	
RN	0.000	0.022	0.022	0.200	0.000	0.000	

⌗	MM	LOC-SUPPORT RING-T2 - CR-SUPPORT-RING-T23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.009	0.009	0.200	0.200	0.000	
Y	0.000	334.950	334.950	2000.000	2000.000	0.000	
Z	0.000	-0.359	-0.359	0.200	0.200	0.159	
R	56.500	56.055	-0.445	0.200	0.200	0.245	
RN	0.000	0.044	0.044	0.200	0.000	0.000	

⌖	MM	LOC-SUPPORT RING-T3 - CR-SUPPORT-RING-T34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.020	0.019	0.200	0.200	0.000	
Y	0.000	449.972	449.972	2000.000	2000.000	0.000	
Z	0.000	-0.709	-0.709	0.200	0.200	0.509	
R	56.500	56.028	-0.472	0.200	0.200	0.272	
RN	0.000	0.042	0.042	0.200	0.000	0.000	
⌖	MM	LOC-SUPPORT RING-T4 - CR-SUPPORT-RING-T45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.000	0.000	0.200	0.200	0.000	
Y	0.000	565.443	565.443	2000.000	2000.000	0.000	
Z	0.000	-0.665	-0.665	0.200	0.200	0.465	
R	56.500	56.000	-0.500	0.200	0.200	0.300	
RN	0.000	0.002	0.002	0.200	0.000	0.000	
⌖	MM	LOC-SUPPORT RING-T5 - CR-SUPPORT-RING-T56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.034	-0.034	0.200	0.200	0.000	
Y	0.000	680.746	680.746	2000.000	2000.000	0.000	
Z	0.000	-0.625	-0.625	0.200	0.200	0.425	
R	56.500	56.067	-0.433	0.200	0.200	0.233	
RN	0.000	0.002	0.002	0.200	0.000	0.000	
⌖	MM	LOC-SUPPORT RING-T6 - CR-SUPPORT-RING-T67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.063	0.063	0.200	0.200	0.000	
Y	0.000	796.151	796.151	2000.000	2000.000	0.000	
Z	0.000	-0.484	-0.484	0.200	0.200	0.284	
R	56.500	56.025	-0.475	0.200	0.200	0.275	
RN	0.000	0.048	0.048	0.200	0.000	0.000	
⌖	MM	LOC-SUPPORT RING-T7 - CR-SUPPORT-RING-T78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.014	-0.014	0.200	0.200	0.000	
Y	0.000	911.639	911.639	2000.000	2000.000	0.000	
Z	0.000	-0.510	-0.511	0.200	0.200	0.311	
R	56.500	56.079	-0.421	0.200	0.200	0.221	
RN	0.000	0.026	0.026	0.200	0.000	0.000	
⌖	MM	LOC-SUPPORT RING-T8 - CR-SUPPORT-RING-T89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.053	0.053	0.200	0.200	0.000	
Y	0.000	1027.437	1027.437	2000.000	2000.000	0.000	
Z	0.000	-0.138	-0.138	0.200	0.200	0.000	
R	56.500	56.126	-0.374	0.200	0.200	0.174	
RN	0.000	0.004	0.004	0.200	0.000	0.000	

SUPPORT RING CIRCLE LOCATIONS
Bottom (negative -Z-) side

⌖	MM	LOC_SUPPORT_RING_B1 - CRC_SUPPORT_RING_B12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.019	0.019	0.200	0.200	0.000	
Y	0.000	219.385	219.385	2000.000	2000.000	0.000	
Z	0.000	-0.249	-0.249	0.200	0.200	0.049	
R	56.500	56.073	-0.427	0.200	0.200	0.227	
RN	0.000	0.006	0.006	0.200	0.000	0.000	

⌖	MM	LOC_SUPPORT_RING_B2 - CRC_SUPPORT_RING_B23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.004	0.004	0.200	0.200	0.000	
Y	0.000	334.986	334.986	2000.000	2000.000	0.000	
Z	0.000	-0.459	-0.459	0.200	0.200	0.259	
R	56.500	56.078	-0.422	0.200	0.200	0.222	
RN	0.000	0.007	0.007	0.200	0.000	0.000	

⌖	MM	LOC_SUPPORT_RING_B3 - CRC_SUPPORT_RING_B34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.092	-0.092	0.200	0.200	0.000	
Y	0.000	449.882	449.882	2000.000	2000.000	0.000	
Z	0.000	-0.658	-0.658	0.200	0.200	0.458	
R	56.500	55.949	-0.551	0.200	0.200	0.351	
RN	0.000	0.077	0.077	0.200	0.000	0.000	

⌖	MM	LOC_SUPPORT_RING_B4 - CRC_SUPPORT_RING_B45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.054	-0.054	0.200	0.200	0.000	
Y	0.000	565.486	565.486	2000.000	2000.000	0.000	
Z	0.000	-0.734	-0.734	0.200	0.200	0.534	
R	56.500	56.030	-0.470	0.200	0.200	0.270	
RN	0.000	0.048	0.048	0.200	0.000	0.000	

⌖	MM	LOC_SUPPORT_RING_B5 - CRC_SUPPORT_RING_B56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.019	0.019	0.200	0.200	0.000	
Y	0.000	679.784	679.784	2000.000	2000.000	0.000	
Z	0.000	-0.675	-0.675	0.200	0.200	0.475	
R	56.500	56.025	-0.475	0.200	0.200	0.275	
RN	0.000	0.028	0.028	0.200	0.000	0.000	

⌖	MM	LOC_SUPPORT_RING_B6 - CRC_SUPPORT_RING_B67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.038	0.038	0.200	0.200	0.000	
Y	0.000	796.187	796.187	2000.000	2000.000	0.000	
Z	0.000	-1.037	-1.037	0.200	0.200	0.837	
R	56.500	55.895	-0.605	0.200	0.200	0.405	
RN	0.000	0.092	0.092	0.200	0.000	0.000	
⌖	MM	LOC_SUPPORT_RING_B7 - CRC_SUPPORT_RING_B78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.039	-0.039	0.200	0.200	0.000	
Y	0.000	911.685	911.685	2000.000	2000.000	0.000	
Z	0.000	-0.274	-0.274	0.200	0.200	0.074	
R	56.500	56.081	-0.419	0.200	0.200	0.219	
RN	0.000	0.002	0.002	0.200	0.000	0.000	
⌖	MM	LOC_SUPPORT_RING_B8 - CRC_SUPPORT_RING_B89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.035	0.035	0.200	0.200	0.000	
Y	0.000	1027.501	1027.501	2000.000	2000.000	0.000	
Z	0.000	-0.188	-0.188	0.200	0.200	0.000	
R	56.500	56.120	-0.380	0.200	0.200	0.180	
RN	0.000	0.006	0.006	0.200	0.000	0.000	

CONCENTRICITY SUPPORT RING CIRCLES
Top & Bottom (Z)

◎	MM	CON_T12 - CR-SUPPORT-RING-T12 TO LINC_SUPPORT_RING_B12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.218	0.218	0.400	0.000	0.000	
◎	MM	CON_B12 - CRC_SUPPORT_RING_B12 TO LINC_SUPPORT_RING_B12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.081	0.081	0.400	0.000	0.000	
◎	MM	CON_T23 - CR-SUPPORT-RING-T23 TO LINC_SUPPORT_RING_B23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.167	0.167	0.400	0.000	0.000	
◎	MM	CON_B23 - CRC_SUPPORT_RING_B23 TO LINC_SUPPORT_RING_B23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.049	0.049	0.400	0.000	0.000	
◎	MM	CON_T34 - CR-SUPPORT-RING-T34 TO LINC_SUPPORT_RING_B34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.180	0.180	0.400	0.000	0.000	
◎	MM	CON_B34 - CRC_SUPPORT_RING_B34 TO LINC_SUPPORT_RING_B34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.185	0.185	0.400	0.000	0.000	

◎	MM	CON_T45 - CR-SUPPORT-RING-T45 TO LINC_SUPPORT_RING_B45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.005	0.005	0.400	0.000	0.000	
◎	MM	CON_B45 - CRC_SUPPORT_RING_B45 TO LINC_SUPPORT_RING_B45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.179	0.179	0.400	0.000	0.000	
◎	MM	CON_T56 - CR-SUPPORT-RING-T56 TO LINC_SUPPORT_RING_B56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.059	0.059	0.400	0.000	0.000	
◎	MM	CON_B56 - CRC_SUPPORT_RING_B56 TO LINC_SUPPORT_RING_B56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.084	0.084	0.400	0.000	0.000	
◎	MM	CON_T67 - CR-SUPPORT-RING-T67 TO LINC_SUPPORT_RING_B67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.195	0.195	0.400	0.000	0.000	
◎	MM	CON_B67 - CRC_SUPPORT_RING_B67 TO LINC_SUPPORT_RING_B67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.963	0.963	0.400	0.000	0.563	
◎	MM	CON_T78 - CR-SUPPORT-RING-T78 TO LINC_SUPPORT_RING_B78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.210	0.210	0.400	0.000	0.000	
◎	MM	CON_B78 - CRC_SUPPORT_RING_B78 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_T89 - CR-SUPPORT-RING-T89 TO LINC_SUPPORT_RING_B89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.146	0.146	0.400	0.000	0.000	
◎	MM	CON_B89 - CRC_SUPPORT_RING_B89 TO LINC_SUPPORT_RING_B89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.143	0.143	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	1245.153	-2.247	0.200	0.200	-2.047	
⟷	MM	B - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1061.060	1058.651	-2.409	0.200	0.200	-2.209	
⟷	MM	C - PLC-DAT-1 TO CR_NW8_ANTENNA_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	32.240	32.319	0.079	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	33.068	0.168	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	53.861	0.061	0.200	0.200	0.000	
⟷	MM	F - LNC-LEVEL TO PL NW 40 FLANGE (XAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	88.000	87.951	-0.049	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	28.430	0.010	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	60.535	-0.065	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	1184.651	-2.149	0.200	0.200	-1.949	
⟷	MM	I3 - PL-NEAR-END-FLANGE TO CR_NW_40_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1184.829	-1.971	0.200	0.200	-1.771	
∠	DEG	K - CY-HOM-1 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	30.000	30.506	0.506	0.500	0.500	0.006	
∠	DEG	L - CY-HOM-2 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	34.273	-0.727	0.500	0.500	-0.227	

⦟	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	140.073	0.073	0.300	0.300	0.000	
⌖	MM	O2 - CR-FAR-END					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	140.000	140.068	0.068	0.300	0.300	0.000	
⌖	MM	P1 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.336	0.035	0.050	0.050	0.000	
⌖	MM	P2 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.332	0.032	0.050	0.050	0.000	
⌖	MM	P3 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.340	0.040	0.050	0.050	0.000	
⌖	MM	P4 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.351	0.051	0.050	0.050	0.001	
⌖	MM	P5 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.401	0.101	0.050	0.050	0.051	
⌖	MM	P6 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.421	0.120	0.050	0.050	0.070	
⌖	MM	P7 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.393	0.093	0.050	0.050	0.043	
⌖	MM	P8 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.354	0.054	0.050	0.050	0.004	
⌖	MM	P9 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.282	-0.018	0.050	0.050	0.000	
⌖	MM	P10 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.335	0.035	0.050	0.050	0.000	

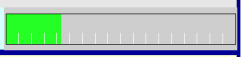
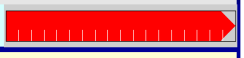
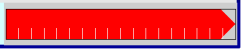
⌖	MM	P11 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.341	0.040	0.050	0.050	0.000	
⌖	MM	P12 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.401	0.100	0.050	0.050	0.050	
⌖	MM	P13 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.437	0.136	0.050	0.050	0.086	
⌖	MM	P14 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.457	0.157	0.050	0.050	0.107	
⌖	MM	P15 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.433	0.132	0.050	0.050	0.082	
⌖	MM	P16 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.384	0.083	0.050	0.050	0.033	
⌖	MM	P17 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.311	0.010	0.050	0.050	0.000	
⌖	MM	P18 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.365	0.064	0.050	0.050	0.014	
⌖	MM	Q1 - CR-SUPPORT-RING-T12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.069	-0.431	0.080	0.080	0.351	
⌖	MM	Q2 - CR-SUPPORT-RING-T23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.055	-0.445	0.080	0.080	0.365	
⌖	MM	Q3 - CR-SUPPORT-RING-T34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.028	-0.472	0.080	0.080	0.392	
⌖	MM	Q4 - CR-SUPPORT-RING-T45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.000	-0.500	0.080	0.080	0.420	
⌖	MM	Q5 - CR-SUPPORT-RING-T56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.067	-0.433	0.080	0.080	0.353	

⌖	MM	Q6 - CR-SUPPORT-RING-T67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.025	-0.475	0.080	0.080	0.395	
⌖	MM	Q7 - CR-SUPPORT-RING-T78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.079	-0.421	0.080	0.080	0.341	
⌖	MM	Q8 - CR-SUPPORT-RING-T89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.126	-0.374	0.080	0.080	0.294	
⌖	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	210.287	19.087	0.200	0.200	18.887	
⌖	MM	R2 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	200.000	234.409	34.409	0.200	0.200	34.209	

◎	MM	U1 - CR-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.547	0.547	0.400	0.000	0.147	
◎	MM	U2 - CR-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.840	0.840	0.400	0.000	0.440	
◎	MM	U3 - CRC-CAV-1-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.269	0.269	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	0.405	0.405	0.400	0.000	0.005	
◎	MM	U5 - CRC-CAV-2-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.692	0.692	0.400	0.000	0.292	
◎	MM	U6 - CRC-CAV-2-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.656	0.656	0.400	0.000	0.256	
◎	MM	U7 - CRC-CAV-3-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.114	1.114	0.400	0.000	0.714	
◎	MM	U8 - CRC-CAV-3-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.140	1.140	0.400	0.000	0.740	
◎	MM	U9 - CRC-CAV-4-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.353	1.353	0.400	0.000	0.953	
◎	MM	U10 - CRC-CAV-4-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.316	1.316	0.400	0.000	0.916	
◎	MM	U11 - CRC-CAV-5-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.337	1.337	0.400	0.000	0.937	
◎	MM	U12 - CRC-CAV-5-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.361	1.361	0.400	0.000	0.961	
◎	MM	U13 - CRC-CAV-6-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.229	1.229	0.400	0.000	0.829	

◎	MM	U14 - CRC-CAV-6-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.224	1.224	0.400	0.000	0.824	
◎	MM	U15 - CRC-CAV-7-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.005	1.005	0.400	0.000	0.605	
◎	MM	U16 - CRC-CAV-7-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.031	1.031	0.400	0.000	0.631	
◎	MM	U17 - CRC-CAV-8-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.614	0.614	0.400	0.000	0.214	
◎	MM	U18 - CRC-CAV-8-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.591	0.591	0.400	0.000	0.191	
◎	MM	U19 - CRC-CAV-9-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.031	0.031	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	0.064	0.064	0.400	0.000	0.000	
◎	MM	U21 - CR-SUPPORT-RING-T12 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.358	0.358	0.400	0.000	0.000	
◎	MM	U22 - CR-SUPPORT-RING-T23 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.718	0.718	0.400	0.000	0.318	
◎	MM	U23 - CR-SUPPORT-RING-T34 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.418	1.418	0.400	0.000	1.018	
◎	MM	U24 - CR-SUPPORT-RING-T45 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.331	1.331	0.400	0.000	0.931	
◎	MM	U25 - CR-SUPPORT-RING-T56 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.252	1.252	0.400	0.000	0.852	
◎	MM	U26 - CR-SUPPORT-RING-T67 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.976	0.976	0.400	0.000	0.576	

◎	MM	U27 - CR-SUPPORT-RING-T78 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.021	1.021	0.400	0.000	0.621	
◎	MM	U28 - CR-SUPPORT-RING-T89 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.296	0.296	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	0.076	0.076	0.400	0.000	0.000	

◎	MM	U40 - CRC-VAC-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.097	0.097	0.400	0.000	0.000	
⊥	MM	V1 - PL-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.352	0.352	0.200	0	0.152	
⊥	MM	V2 - PL-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.590	0.590	0.200	0	0.390