pc-dmis	PART NAME : PN440004-n ILC 1p3GHZ RF CAVITY ASSEMBLY 000 TB9NR005 v5x IR09		May 27, 2011	08:41
	REV NUMBER :	SER NUMBER :	STATS COUNT :	1

440004-n
FNAL 1.3GHZ TESLA
RF CAVITY
ASSEMBLY
@ 000 rotation
'Inspected by ' : Robert Riley
'Cavity Number' : TB9NR005
' ' : 1105261323

BEAM PIPE FLANGE NEAR

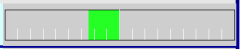
⌗	MM	LOC1 - PL-NEAR-END-FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	0.000	0.000	0.000	0.200	0.200	0.000	
FL	0.000	0.007	0.007	0.200	0.000	0.000	

AX	I	J	K
V	0.000	-1.000	0.007

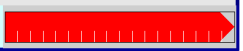
//	MM	PARL1 - PL-NEAR-END-FLANGE TO YMINUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.811	0.811	0.200	0	0.611	

∠	DEG	ANGL1 - PL-NEAR-END-FLANGE TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.612	-0.388	0.100	0.100	-0.288	

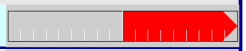
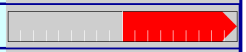
⌗	MM	LOC2 - CR-NEAR-END-FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.060	-0.061	0.200	0.200	0.000	
Z	0.000	0.393	0.393	0.200	0.200	0.193	
D	140.000	140.007	0.007	0.300	0.300	0.000	
RN	0.000	0.040	0.040	0.200	0.000	0.000	

⌗	MM	LOC3 - PL-FAR-END					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	1247.400	1246.598	-0.802	3.000	3.000	0.000	
FL	0.000	0.008	0.008	0.200	0.000	0.000	

AX	I	J	K
V	0.002	1.000	0.010

//	MM	PARL2 - PL-FAR-END TO YPLUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	1.176	1.176	0.200	0	0.976	

∠	DEG	ANGL2 - PL-FAR-END TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.442	-0.558	0.100	0.100	-0.458	

⌗	MM	LOC4 - CR-FAR-END					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.622	0.621	0.200	0.200	0.421	
Z	0.000	0.946	0.946	0.200	0.200	0.746	
D	140.000	139.975	-0.025	0.300	0.300	0.000	
RN	0.000	0.030	0.030	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	92.796	-0.044	0.200	0.200	0.000
FL	0.000	0.121	0.121	0.200	0.000	0.000

AX	I	J	K
V	-0.003	-1.000	0.004

//	MM	PARL5 - PLC-DAT-1 TO YMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.574	0.574	0.200	0	0.374

∠	DEG	ANGL7 - PLC-DAT-1 TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.705	-0.295	0.100	0.100	-0.195

DATUM-2-PLANE

⌗	MM	LOC-DATUM-2-PLANE - PLC-DAT-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1154.560	1152.249	-2.311	0.200	0.200	2.111
FL	0.000	0.175	0.175	0.200	0.000	0.000

AX	I	J	K
V	0.001	1.000	0.010

//	MM	PARL6 - PLC-DAT-2 TO YPLUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	1.084	1.084	0.200	0	0.884

∠	DEG	ANGL8 - PLC-DAT-2 TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.418	-0.582	0.100	0.100	-0.482

⟷	MM	DIST3 - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	1061.060	1059.453	-1.607	0.200	0.200	-1.407

⟷	MM	DIST4 - PLC-DAT-2 TO PL-FAR-END (YAXIS)				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	93.500	94.349	0.849	0.200	0.200	0.649

PICKUP ANTENNA FLANGE NW8

⌗	MM	LOC5 - PL NW8 ANTENNA FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-53.800	-53.834	-0.034	0.200	0.200	0.000
FL	0.000	0.028	0.028	0.200	0.000	0.000

AX	I	J	K
V	-0.999	-0.002	-0.047

//	MM	PARL3 - PL NW8 ANTENNA FLANGE TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	1.417	1.417	0.200	0	1.217

⊿	DEG	ANGL3 - PL NW8 ANTENNA FLANGE TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	92.720	2.720	0.100	0.100	2.620

⌗	MM	LOC6 - CR_NW8_ANTENNA_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	60.600	61.071	0.471	0.200	0.200	0.271
Z	0.000	-2.098	-2.098	0.200	0.200	1.898
D	33.800	33.679	-0.121	0.150	0.000	0.121
RN	0.000	0.073	0.073	0.150	0.000	0.000

MAIN COUPLER FLANGE NW40

⌗	MM	LOC7 - PL NW 40 FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	88.000	88.265	0.265	0.200	0.200	0.065
FL	0.000	0.008	0.008	0.200	0.000	0.000

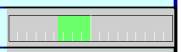
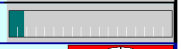
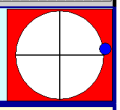
AX	I	J	K
V	1.000	-0.002	-0.012

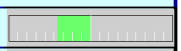
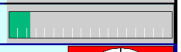
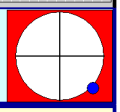
//	MM	PARL4 - PL NW 40 FLANGE TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.805	0.805	0.200	0	0.605

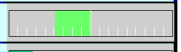
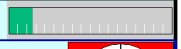
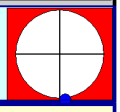
⊿	DEG	ANGL4 - PL NW 40 FLANGE TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	90.669	0.669	0.100	0.100	0.569

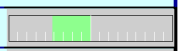
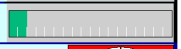
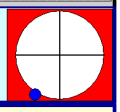
⌗	MM	LOC8 - CR_NW_40_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1186.800	1185.586	-1.214	0.200	0.200	1.014
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	76.000	75.982	-0.018	0.200	0.000	0.018
RN	0.000	0.029	0.029	0.200	0.000	0.000

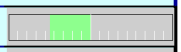
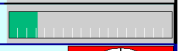
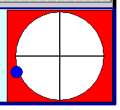
⟷	MM	DIST1 - CR_NW_40_FLANGE TO PL-FAR-END (YAXIS)				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	60.600	61.012	0.412	0.200	0.200	0.212

⌖	MM	TP NW40 MC BH1 - CR NW 40 FLANGE BH1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.627	-0.123					
PA	112.500	111.621	-0.879					
DF	6.700	6.621	-0.079	0.200	0.200	0.000	0.000	
RN	0.000	0.019	0.019	0.200	0.000	0.000		
TP	RFS		1.002	0.300		0.702	0.000	

⌖	MM	TP NW40 MC BH2 - CR NW 40 FLANGE BH2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.539	-0.211					
PA	67.500	66.484	-1.016					
DF	6.700	6.620	-0.080	0.200	0.200	0.000	0.000	
RN	0.000	0.027	0.027	0.200	0.000	0.000		
TP	RFS		1.199	0.300		0.899	0.000	

⌖	MM	TP NW40 MC BH3 - CR NW 40 FLANGE BH3						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.556	-0.194					
PA	22.500	21.210	-1.290					
DF	6.700	6.613	-0.087	0.200	0.200	0.000	0.000	
RN	0.000	0.030	0.030	0.200	0.000	0.000		
TP	RFS		1.477	0.300		1.177	0.000	

⌖	MM	TP NW40 MC BH4 - CR NW 40 FLANGE BH4						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.632	-0.118					
PA	-22.500	-23.862	-1.362					
DF	6.700	6.608	-0.092	0.200	0.200	0.000	0.000	
RN	0.000	0.023	0.023	0.200	0.000	0.000		
TP	RFS		1.525	0.300		1.225	0.000	

⌖	MM	TP NW40 MC BH5 - CR NW 40 FLANGE BH5						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.731	-0.019					
PA	-67.500	-68.861	-1.361					
DF	6.700	6.601	-0.099	0.200	0.200	0.000	0.000	
RN	0.000	0.035	0.035	0.200	0.000	0.000		
TP	RFS		1.508	0.300		1.208	0.000	

	MM	TP NW40 MC BH6 - CR NW 40 FLANGE BH6					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.832	0.082				
PA	-112.500	-113.696	-1.196				
DF	6.700	6.596	-0.104	0.200	0.200	0.000	0.000
RN	0.000	0.049	0.049	0.200	0.000	0.000	
TP	RFS		1.337	0.300		1.037	0.000

	MM	TP NW40 MC BH7 - CR NW 40 FLANGE BH7					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.813	0.063				
PA	-157.500	-158.448	-0.948				
DF	6.700	6.612	-0.088	0.200	0.200	0.000	0.000
RN	0.000	0.035	0.035	0.200	0.000	0.000	
TP	RFS		1.060	0.300		0.760	0.000

	MM	TP NW40 MC BH8 - CR NW 40 FLANGE BH8					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.751	0.001				
PA	157.500	156.644	-0.856				
DF	6.700	6.618	-0.082	0.200	0.200	0.000	0.000
RN	0.000	0.022	0.022	0.200	0.000	0.000	
TP	RFS		0.948	0.300		0.648	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		-0.541		0.269		0.797	

	DEG	ANGL6 - PL-NW12-FLANGE-HOM2 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	55.809	20.809	0.500	0.500	20.309	

	MM	LOC9 - CR-NW12-FLANGE-HOM2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-71.423	-71.423	100.000	100.000	0.000	
Y	0.000	1190.371	1190.371	2000.000	2000.000	0.000	
Z	0.000	-8.360	-8.360	100.000	100.000	0.000	
D	33.800	33.718	-0.082	0.150	0.000	0.082	
RN	0.000	0.151	0.151	0.150	0.000	0.001	

⟷	MM	DIST FORMTEIL2 POINT - PT-FORMTEIL2 TO PL-NW12-FLANGE-HOM2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	28.420	28.366	-0.054	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	28.366	-0.054	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	105.143	90.143	0.500	0.500	89.643	

HOM 1 LOCATION

⌗	MM	LOC-HOM1 - CY-HOM-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	71.120	71.120	100.000	100.000	0.000	
Y	60.600	60.643	0.043	0.200	0.200	0.000	
Z	0.000	-37.113	-37.113	100.000	100.000	0.000	
D	44.000	43.703	-0.297	0.000	0.100	0.197	
RN	0.000	0.216	0.216	0.100	0.000	0.116	

AX	I	J	K
V	-0.885	0.008	0.466

∠	DEG	ANGL9 - CY-HOM-1 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	30.000	27.739	-2.261	0.500	0.500	-1.761	

∠	DEG	ANGL10 - CY-HOM-1 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	-90.000	-89.552	0.448	0.500	0.500	0.000	

∠	DEG	ANGL11 - CY-HOM-1 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	60.000	62.261	2.261	0.500	0.500	1.761	

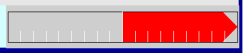
INTERSECTION OF HOM1 & YZ PLANE

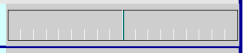
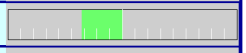
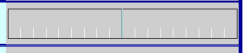
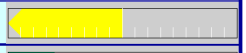
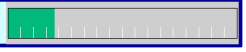
⌗	MM	LOC-HOM1 X PLANE - PTC-HOM1 X YZ PLANE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.000	0.000	0.200	0.200	0.000	
Y	60.600	61.272	0.672	0.200	0.200	0.472	
Z	0.000	0.287	0.287	0.200	0.200	0.087	

▱	MM	LOC_HOM1_FLANGE_A - PL_NW12_FLANGE_HOM1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.013	0.013	0.200	0.000	0.000	

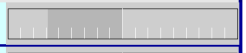
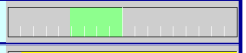
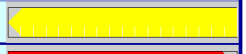
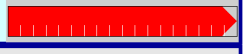
⌗	MM	LOC_HOM1_FLANGE_B - PL_NW12_FLANGE_HOM1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	

AX	I	J	K
V	-0.453	-0.288	-0.844

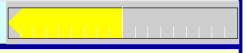
⦟	DEG	ANGL17 - PL_NW12_FLANGE_HOM1 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	15.000	108.824	93.824	0.500	0.500	93.324	

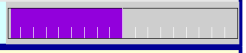
⌗	MM	LOC_HOM1_FLANGE_D - CR_NW12_FLANGE_HOM1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	40.497	42.049	1.553	100.000	100.000	0.000	
Y	92.086	57.033	-35.053	100.000	100.000	0.000	
Z	-56.755	-57.163	-0.407	100.000	100.000	0.000	
D	33.800	32.615	-1.185	0.150	0.150	1.035	
RN	0.000	0.031	0.031	0.150	0.000	0.000	

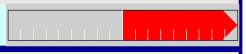
HOM 2 LOCATION

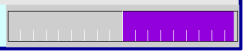
⌗	MM	LOC-HOM2 - CY-HOM-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-65.013	-65.013	100.000	100.000	0.000	
Y	1186.800	1186.921	0.121	3.000	3.000	0.000	
Z	0.000	-45.182	-45.182	100.000	100.000	0.000	
D	44.000	43.719	-0.281	0.000	0.100	0.181	
RN	0.000	0.133	0.133	0.100	0.000	0.033	

AX	I	J	K
V	-0.824	0.011	-0.566

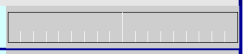
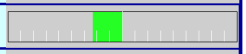
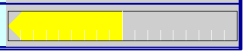
⟷	MM	DIST2 - CY-HOM-2 TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	60.600	59.676	-0.924	0.200	0.200	-0.724	

⦟	DEG	ANGL12 - CY-HOM-2 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	34.514	-0.486	0.500	0.500	0.000	

⦟	DEG	ANGL13 - CY-HOM-2 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	-90.000	-89.354	0.646	0.500	0.500	0.146	

⦟	DEG	ANGL14 - CY-HOM-2 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	55.000	55.486	0.486	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	1186.031	-0.769	3.000	3.000	0.000	
Z	0.000	-0.477	-0.477	0.200	0.200	0.277	

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	94.698	94.698	2000.000	2000.000	0.000	
Z	0.000	0.000	0.000	0.200	0.200	0.000	
D	111.000	110.687	-0.313	0.050	0.050	0.263	
RN	0.000	0.132	0.132	0.050	0.000	0.082	

⌗	MM	LOC-CC2 - CRC-VAC-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.276	0.276	0.200	0.200	0.076	
Y	158.307	120.730	-37.578	2000.000	2000.000	0.000	
Z	0.000	0.126	0.125	0.200	0.200	0.000	
D	211.000	210.368	-0.632	0.200	0.200	0.432	
RN	0.000	0.287	0.287	0.200	0.000	0.087	

⌗	MM	LOC-CC3 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.014	-0.014	0.200	0.200	0.000	
Y	0.000	156.640	156.640	2000.000	2000.000	0.000	
Z	0.000	-0.197	-0.197	0.200	0.200	0.000	
D	210.300	211.068	0.767	0.200	0.200	0.567	
RN	0.000	0.226	0.226	0.200	0.000	0.026	

⌗	MM	LOC-CC4 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.215	-0.215	0.200	0.200	0.015	
Y	0.000	167.019	167.019	2000.000	2000.000	0.000	
Z	0.000	0.006	0.005	0.200	0.200	0.000	
D	210.300	210.887	0.587	0.200	0.200	0.387	
RN	0.000	0.199	0.199	0.200	0.000	0.000	

⌗	MM	LOC-CC5 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.197	-0.197	0.200	0.200	0.000	
Y	0.000	272.979	272.979	2000.000	2000.000	0.000	
Z	0.000	-0.611	-0.611	0.200	0.200	0.411	
D	210.300	210.844	0.544	0.200	0.200	0.344	
RN	0.000	0.372	0.372	0.200	0.000	0.172	

⌗	MM	LOC-CC6 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.164	-0.164	0.200	0.200	0.000	
Y	0.000	282.811	282.811	2000.000	2000.000	0.000	
Z	0.000	-0.685	-0.685	0.200	0.200	0.485	
D	210.300	210.956	0.656	0.200	0.200	0.456	
RN	0.000	0.358	0.358	0.200	0.000	0.158	

⌗	MM	LOC-CC7 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.087	-0.087	0.200	0.200	0.000	
Y	0.000	389.059	389.059	2000.000	2000.000	0.000	
Z	0.000	-0.987	-0.987	0.200	0.200	0.787	
D	210.300	210.969	0.669	0.200	0.200	0.469	
RN	0.000	0.422	0.422	0.200	0.000	0.222	

⌗	MM	LOC-CC8 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.236	-0.236	0.200	0.200	0.036	
Y	0.000	398.725	398.725	2000.000	2000.000	0.000	
Z	0.000	-1.079	-1.079	0.200	0.200	0.879	
D	210.300	210.976	0.676	0.200	0.200	0.476	
RN	0.000	0.454	0.454	0.200	0.000	0.254	

⌗	MM	LOC-CC9 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.351	-0.352	0.200	0.200	0.152	
Y	0.000	504.378	504.378	2000.000	2000.000	0.000	
Z	0.000	-1.532	-1.532	0.200	0.200	1.332	
D	210.300	210.952	0.652	0.200	0.200	0.452	
RN	0.000	0.295	0.295	0.200	0.000	0.095	

⌗	MM	LOC-CC10 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.318	-0.318	0.200	0.200	0.118	
Y	0.000	514.668	514.668	2000.000	2000.000	0.000	
Z	0.000	-1.603	-1.603	0.200	0.200	1.403	
D	210.300	210.890	0.590	0.200	0.200	0.390	
RN	0.000	0.361	0.361	0.200	0.000	0.161	

⌗	MM	LOC-CC11 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.296	-0.296	0.200	0.200	0.096	
Y	0.000	619.639	619.639	2000.000	2000.000	0.000	
Z	0.000	-1.917	-1.917	0.200	0.200	1.717	
D	210.300	210.939	0.639	0.200	0.200	0.439	
RN	0.000	0.270	0.270	0.200	0.000	0.070	

⌗	MM	LOC-CC12 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.255	-0.255	0.200	0.200	0.055	
Y	0.000	629.733	629.733	2000.000	2000.000	0.000	
Z	0.000	-1.963	-1.963	0.200	0.200	1.763	
D	210.300	211.001	0.701	0.200	0.200	0.501	
RN	0.000	0.383	0.383	0.200	0.000	0.183	
⌗	MM	LOC-CC13 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.237	-0.237	0.200	0.200	0.037	
Y	0.000	736.192	736.192	2000.000	2000.000	0.000	
Z	0.000	-2.141	-2.142	0.200	0.200	1.942	
D	210.300	210.941	0.641	0.200	0.200	0.441	
RN	0.000	0.410	0.410	0.200	0.000	0.210	
⌗	MM	LOC-CC14 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.319	-0.319	0.200	0.200	0.119	
Y	0.000	745.791	745.791	2000.000	2000.000	0.000	
Z	0.000	-2.169	-2.169	0.200	0.200	1.969	
D	210.300	210.785	0.485	0.200	0.200	0.285	
RN	0.000	0.316	0.316	0.200	0.000	0.116	
⌗	MM	LOC-CC15 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.328	-0.329	0.200	0.200	0.129	
Y	0.000	851.829	851.829	2000.000	2000.000	0.000	
Z	0.000	-1.867	-1.867	0.200	0.200	1.667	
D	210.300	210.909	0.609	0.200	0.200	0.409	
RN	0.000	0.236	0.236	0.200	0.000	0.036	
⌗	MM	LOC-CC16 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.467	-0.467	0.200	0.200	0.267	
Y	0.000	861.058	861.058	2000.000	2000.000	0.000	
Z	0.000	-1.823	-1.823	0.200	0.200	1.623	
D	210.300	210.957	0.657	0.200	0.200	0.457	
RN	0.000	0.286	0.286	0.200	0.000	0.086	
⌗	MM	LOC-CC17 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.395	-0.395	0.200	0.200	0.195	
Y	0.000	965.852	965.852	2000.000	2000.000	0.000	
Z	0.000	-1.565	-1.565	0.200	0.200	1.365	
D	210.300	210.899	0.599	0.200	0.200	0.399	
RN	0.000	0.429	0.429	0.200	0.000	0.229	

⌗	MM	LOC-CC18 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.176	-0.176	0.200	0.200	0.000	
Y	0.000	976.252	976.252	2000.000	2000.000	0.000	
Z	0.000	-1.410	-1.410	0.200	0.200	1.210	
D	210.300	210.884	0.584	0.200	0.200	0.384	
RN	0.000	0.316	0.316	0.200	0.000	0.116	

⌗	MM	LOC-CC19 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.026	0.026	0.200	0.200	0.000	
Y	0.000	1080.345	1080.345	2000.000	2000.000	0.000	
Z	0.000	-0.803	-0.803	0.200	0.200	0.603	
D	210.300	210.927	0.627	0.200	0.200	0.427	
RN	0.000	0.135	0.135	0.200	0.000	0.000	

⌗	MM	LOC-CC20 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.112	-0.113	0.200	0.200	0.000	
Y	0.000	1090.634	1090.634	2000.000	2000.000	0.000	
Z	0.000	-0.577	-0.577	0.200	0.200	0.377	
D	210.300	210.864	0.564	0.200	0.200	0.364	
RN	0.000	0.178	0.178	0.200	0.000	0.000	

⌗	MM	LOC-CC21 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.098	-0.098	0.200	0.200	0.000	
Y	1156.557	1123.710	-32.847	2000.000	2000.000	0.000	
Z	0.000	-0.017	-0.017	0.200	0.200	0.000	
D	235.000	233.954	-1.046	0.200	0.200	0.846	
RN	0.000	0.156	0.156	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	1150.362	1150.362	2000.000	2000.000	0.000	
Z	0.000	0.000	0.000	0.200	0.200	0.000	
D	111.000	111.185	0.185	0.050	0.050	0.135	
RN	0.000	0.064	0.064	0.050	0.000	0.014	

⌖	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	0.276	0.276				
Z	0.000	0.126	0.125				
TP	RFS		0.606	0.400		0.206	0.000

⌖	MM	LOC-TP-CC3 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.014	-0.014				
Z	0.000	-0.197	-0.197				
TP	RFS		0.395	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	-0.215	-0.215				
Z	0.000	0.006	0.005				
TP	RFS		0.430	0.400		0.030	0.000

⌖	MM	LOC-TP-CC5 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.197	-0.197				
Z	0.000	-0.611	-0.611				
TP	RFS		1.283	0.400		0.883	0.000

⌖	MM	LOC-TP-CC6 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.164	-0.164				
Z	0.000	-0.685	-0.685				
TP	RFS		1.408	0.400		1.008	0.000

⌖	MM	LOC-TP-CC7 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.087	-0.087				
Z	0.000	-0.987	-0.987				
TP	RFS		1.981	0.400		1.581	0.000

⌖	MM	LOC-TP-CC8 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.236	-0.236				
Z	0.000	-1.079	-1.079				
TP	RFS		2.209	0.400		1.809	0.000

⌖	MM	LOC-TP-CC9 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.351	-0.352				
Z	0.000	-1.532	-1.532				
TP	RFS		3.143	0.400		2.743	0.000

⌖	MM	LOC-TP-CC10 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.318	-0.318				
Z	0.000	-1.603	-1.603				
TP	RFS		3.269	0.400		2.869	0.000

⌖	MM	LOC-TP-CC11 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.296	-0.296				
Z	0.000	-1.917	-1.917				
TP	RFS		3.880	0.400		3.480	0.000

⌖	MM	LOC-TP-CC12 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.255	-0.255				
Z	0.000	-1.963	-1.963				
TP	RFS		3.959	0.400		3.559	0.000

⌖	MM	LOC-TP-CC13 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.237	-0.237				
Z	0.000	-2.141	-2.142				
TP	RFS		4.309	0.400		3.909	0.000

⌖	MM	LOC-TP-CC14 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.319	-0.319				
Z	0.000	-2.169	-2.169				
TP	RFS		4.385	0.400		3.985	0.000

⌖	MM	LOC-TP-CC15 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.328	-0.329				
Z	0.000	-1.867	-1.867				
TP	RFS		3.791	0.400		3.391	0.000

⌖	MM	LOC-TP-CC16 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.467	-0.467				
Z	0.000	-1.823	-1.823				
TP	RFS		3.765	0.400		3.365	0.000

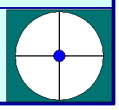
⌖	MM	LOC-TP-CC17 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.395	-0.395				
Z	0.000	-1.565	-1.565				
TP	RFS		3.229	0.400		2.829	0.000

⌖	MM	LOC-TP-CC18 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.176	-0.176				
Z	0.000	-1.410	-1.410				
TP	RFS		2.842	0.400		2.442	0.000

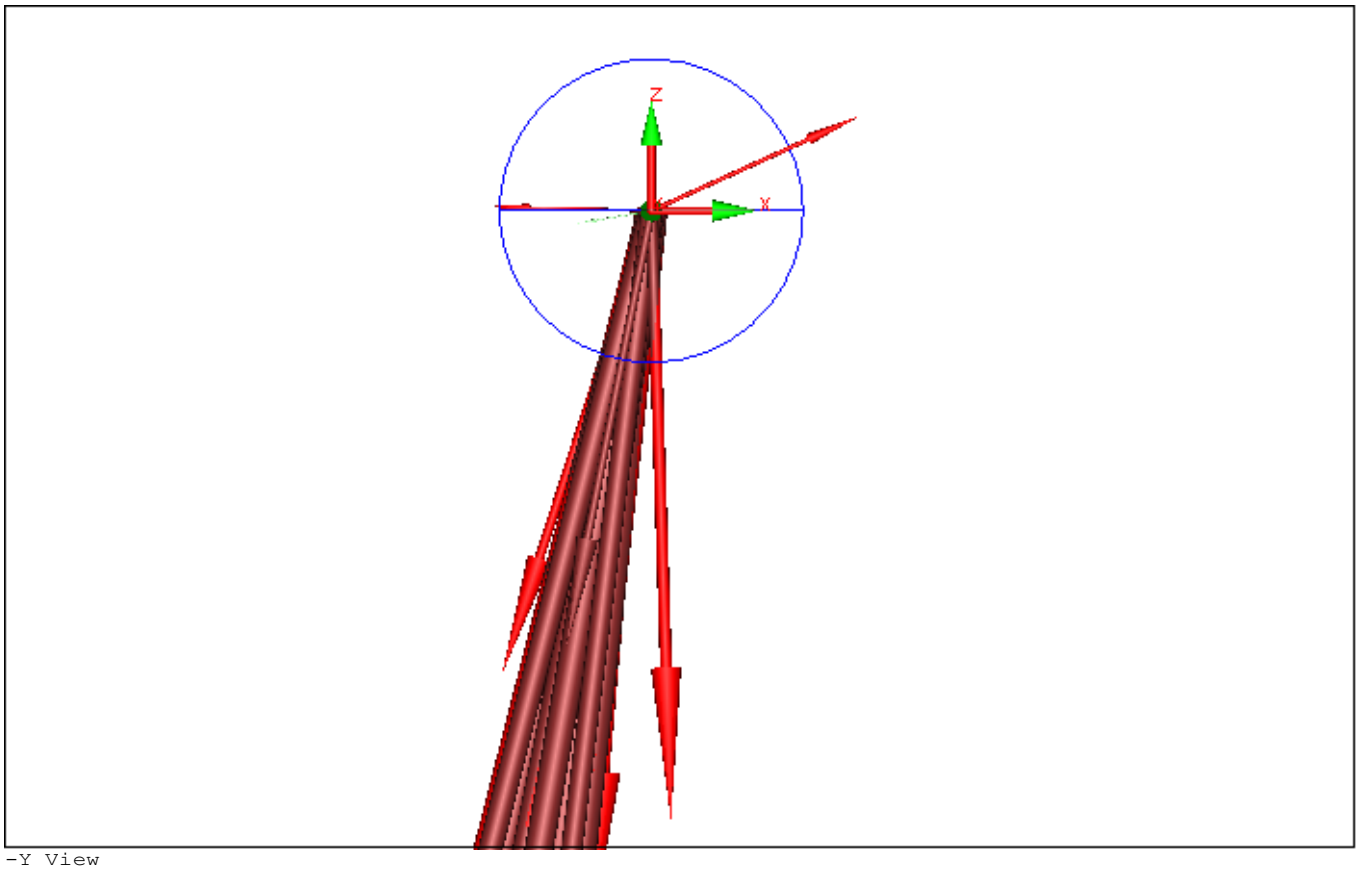
⌖	MM	LOC-TP-CC19 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.026	0.026				
Z	0.000	-0.803	-0.803				
TP	RFS		1.607	0.400		1.207	0.000

⌖	MM	LOC-TP-CC20 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.112	-0.113				
Z	0.000	-0.577	-0.577				
TP	RFS		1.175	0.400		0.775	0.000

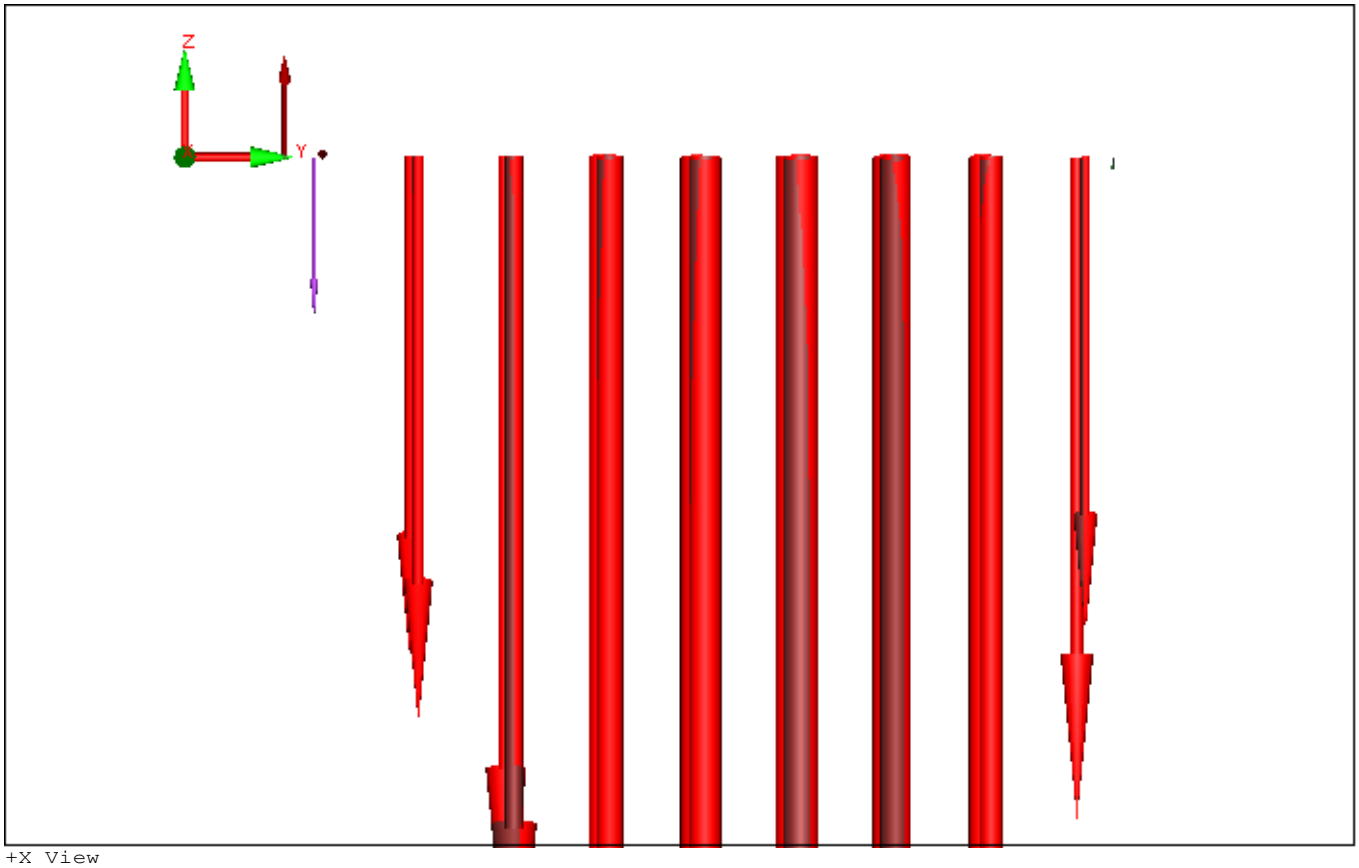
⌖	MM	LOC-TP-CC21 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.098	-0.098				
Z	0.000	-0.017	-0.017				
TP	RFS		0.198	0.400		0.000	0.000

⌖	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	

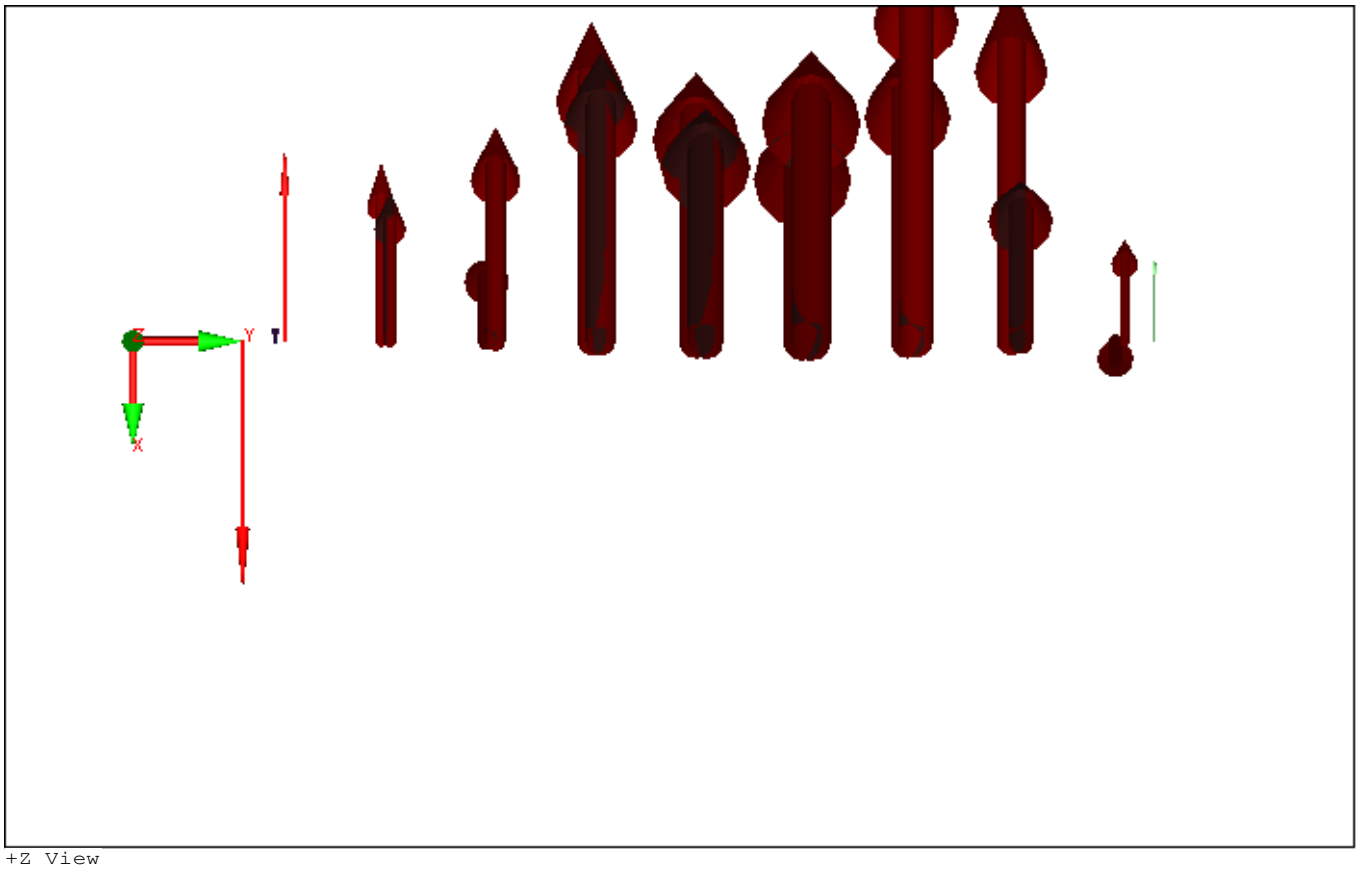
True Position plots from 3 views
x1000



-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	-0.180	-0.475	0.200	0.200	0.275	
Y	658.560	624.232	-34.328	2000.000	2000.000	0.000	
Z	0.000	-1.037	-1.037	0.200	0.200	0.837	
ST	0.000	2.460	2.460	0.400	0.000	2.060	

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	-0.274	-0.274	0.200	0.200	0.074	
Y	0.000	219.154	219.154	2000.000	2000.000	0.000	
Z	0.000	-0.446	-0.446	0.200	0.200	0.246	
R	56.500	56.259	-0.241	0.200	0.200	0.041	
RN	0.000	0.030	0.030	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	-0.205	-0.205	0.200	0.200	0.005	
Y	0.000	334.751	334.751	2000.000	2000.000	0.000	
Z	0.000	-0.681	-0.681	0.200	0.200	0.481	
R	56.500	56.287	-0.213	0.200	0.200	0.013	
RN	0.000	0.046	0.046	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	-0.197	-0.197	0.200	0.200	0.000	
Y	0.000	449.648	449.648	2000.000	2000.000	0.000	
Z	0.000	-1.357	-1.357	0.200	0.200	1.157	
R	56.500	56.301	-0.199	0.200	0.200	0.000	
RN	0.000	0.144	0.144	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	-0.221	-0.221	0.200	0.200	0.021	
Y	0.000	565.251	565.251	2000.000	2000.000	0.000	
Z	0.000	-1.823	-1.823	0.200	0.200	1.623	
R	56.500	56.320	-0.180	0.200	0.200	0.000	
RN	0.000	0.283	0.283	0.200	0.000	0.083	
⌗	MM	LOC-SUPPORT RING-P5 - CR_SUPPORT_RING_P56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.302	0.302	0.200	0.200	0.102	
Y	0.000	680.554	680.554	2000.000	2000.000	0.000	
Z	0.000	-2.147	-2.147	0.200	0.200	1.947	
R	56.500	56.129	-0.371	0.200	0.200	0.171	
RN	0.000	0.128	0.128	0.200	0.000	0.000	
⌗	MM	LOC-SUPPORT RING-P6 - CR_SUPPORT_RING_P67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.207	-0.207	0.200	0.200	0.007	
Y	0.000	795.953	795.953	2000.000	2000.000	0.000	
Z	0.000	-2.032	-2.032	0.200	0.200	1.832	
R	56.500	56.209	-0.291	0.200	0.200	0.091	
RN	0.000	0.083	0.083	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	-0.342	-0.342	0.200	0.200	0.142	
Y	0.000	911.466	911.466	2000.000	2000.000	0.000	
Z	0.000	-1.762	-1.762	0.200	0.200	1.562	
R	56.500	56.248	-0.252	0.200	0.200	0.052	
RN	0.000	0.029	0.029	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	-0.089	-0.090	0.200	0.200	0.000	
Y	0.000	1027.256	1027.256	2000.000	2000.000	0.000	
Z	0.000	-1.317	-1.317	0.200	0.200	1.117	
R	56.500	56.315	-0.185	0.200	0.200	0.000	
RN	0.000	0.033	0.033	0.200	0.000	0.000	

SUPPORT RING CIRCLE LOCATIONS
Negative -X- side (left)

⌗	MM	LOC_SUPPORT_RING_N1 - CR_SUPPORT_RING_N12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.575	-0.575	0.200	0.200	0.375	
Y	255.357	219.178	-36.179	2000.000	2000.000	0.000	
Z	0.000	-0.394	-0.394	0.200	0.200	0.194	
R	56.500	56.258	-0.242	0.200	0.200	0.042	
RN	0.000	0.086	0.086	0.200	0.000	0.000	

⌗	MM	LOC_SUPPORT_RING_N2 - CR_SUPPORT_RING_N23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.045	-0.045	0.200	0.200	0.000	
Y	370.957	334.779	-36.178	2000.000	2000.000	0.000	
Z	0.000	-0.810	-0.810	0.200	0.200	0.610	
R	56.500	56.304	-0.196	0.200	0.200	0.000	
RN	0.000	0.079	0.079	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	0.000	0.000	0.200	0.200	0.000	
Y	485.857	449.680	-36.177	2000.000	2000.000	0.000	
Z	0.000	-1.315	-1.315	0.200	0.200	1.115	
R	56.500	56.462	-0.038	0.200	0.200	0.000	
RN	0.000	0.064	0.064	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	-0.672	-0.672	0.200	0.200	0.472	
Y	601.457	565.280	-36.177	2000.000	2000.000	0.000	
Z	0.000	-1.736	-1.736	0.200	0.200	1.536	
R	56.500	56.150	-0.350	0.200	0.200	0.150	
RN	0.000	0.052	0.052	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	680.585	-36.172	2000.000	2000.000	0.000	
Z	0.000	-2.355	-2.355	0.200	0.200	2.155	
R	56.500	56.544	0.044	0.200	0.200	0.000	
RN	0.000	0.056	0.056	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	-0.256	-0.257	0.200	0.200	0.057	
Y	832.157	795.976	-36.181	2000.000	2000.000	0.000	
Z	0.000	-1.918	-1.919	0.200	0.200	1.719	
R	56.500	56.408	-0.092	0.200	0.200	0.000	
RN	0.000	0.066	0.066	0.200	0.000	0.000	
⌗	MM	LOC_SUPPORT_RING_N7 - CR_SUPPORT_RING_N78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.385	-0.385	0.200	0.200	0.185	
Y	947.657	911.472	-36.185	2000.000	2000.000	0.000	
Z	0.000	-1.623	-1.623	0.200	0.200	1.423	
R	56.500	56.370	-0.130	0.200	0.200	0.000	
RN	0.000	0.052	0.052	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	-0.133	-0.133	0.200	0.200	0.000	
Y	1063.457	1027.302	-36.155	2000.000	2000.000	0.000	
Z	0.000	-1.211	-1.211	0.200	0.200	1.011	
R	56.500	56.292	-0.208	0.200	0.200	0.008	
RN	0.000	0.093	0.093	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	0.325	0.325	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	0.763	0.763	0.400	0.000	0.363	
◎	MM	CON_P23 - CR_SUPPORT_RING_P23 TO LINC_SUPPORT_RING_B23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.341	0.341	0.400	0.000	0.000	
◎	MM	CON_N23 - CR_SUPPORT_RING_N23 TO LINC_SUPPORT_RING_B23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.169	0.169	0.400	0.000	0.000	
◎	MM	CON_P34 - CR_SUPPORT_RING_P34 TO LINC_SUPPORT_RING_B34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.223	0.223	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	0.585	0.585	0.400	0.000	0.185	

◎	MM	CON_P45 - CR_SUPPORT_RING_P45 TO LINC_SUPPORT_RING_B45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.221	0.221	0.400	0.000	0.000	
◎	MM	CON_N45 - CR_SUPPORT_RING_N45 TO LINC_SUPPORT_RING_B45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.730	0.730	0.400	0.000	0.330	
◎	MM	CON_P56 - CR_SUPPORT_RING_P56 TO LINC_SUPPORT_RING_B56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.114	1.114	0.400	0.000	0.714	
◎	MM	CON_N56 - CR_SUPPORT_RING_N56 TO LINC_SUPPORT_RING_B56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.860	0.860	0.400	0.000	0.460	
◎	MM	CON_P67 - CR_SUPPORT_RING_P67 TO LINC_SUPPORT_RING_B67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.234	0.234	0.400	0.000	0.000	
◎	MM	CON_N67 - CR_SUPPORT_RING_N67 TO LINC_SUPPORT_RING_B67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.254	0.254	0.400	0.000	0.000	
◎	MM	CON_P78 - CR_SUPPORT_RING_P78 TO LINC_SUPPORT_RING_B78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.219	0.219	0.400	0.000	0.000	
◎	MM	CON_N78 - CR_SUPPORT_RING_N78 TO LINC_SUPPORT_RING_B78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.180	0.180	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	0.409	0.409	0.400	0.000	0.009	
◎	MM	CON_N89 - CR_SUPPORT_RING_N89 TO LINC_SUPPORT_RING_B89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.227	0.227	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	1246.598	-0.802	0.200	0.200	-0.602	
⟷	MM	B - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1061.060	1059.453	-1.607	0.200	0.200	-1.407	
⟷	MM	C - PLC-DAT-1 TO CR_NW8_ANTENNA_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	32.240	31.725	-0.515	0.200	0.200	-0.315	
⟷	MM	D - PLC-DAT-2 TO CR_NW_40_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	32.900	33.337	0.437	0.200	0.200	0.237	
⟷	MM	E - LNC-LEVEL TO PL NW8 ANTENNA FLANGE (XAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	53.800	53.834	0.034	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	88.265	0.265	0.200	0.200	0.065	
⌗	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	28.366	-0.054	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	60.643	0.043	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	1186.921	0.121	0.200	0.200	0.000	
⟷	MM	I3 - PL-NEAR-END-FLANGE TO CR_NW_40_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1185.586	-1.214	0.200	0.200	-1.014	
∡	DEG	K - CY-HOM-1 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	30.000	27.739	-2.261	0.500	0.500	-1.761	
∡	DEG	L - CY-HOM-2 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	34.514	-0.486	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	140.007	0.007	0.300	0.300	0.000	
⌗	MM	O2 - CR-FAR-END					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	140.000	139.975	-0.025	0.300	0.300	0.000	
⌗	MM	P1 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.068	0.767	0.050	0.050	0.717	
⌗	MM	P2 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.887	0.587	0.050	0.050	0.537	
⌗	MM	P3 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.844	0.543	0.050	0.050	0.493	
⌗	MM	P4 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.956	0.656	0.050	0.050	0.606	
⌗	MM	P5 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.969	0.669	0.050	0.050	0.619	
⌗	MM	P6 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.976	0.675	0.050	0.050	0.625	
⌗	MM	P7 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.952	0.651	0.050	0.050	0.601	
⌗	MM	P8 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.890	0.590	0.050	0.050	0.540	
⌗	MM	P9 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.939	0.639	0.050	0.050	0.589	
⌗	MM	P10 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.001	0.700	0.050	0.050	0.650	

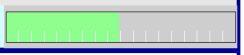
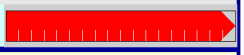
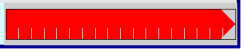
⌗	MM	P11 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.941	0.641	0.050	0.050	0.591	
⌗	MM	P12 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.785	0.485	0.050	0.050	0.435	
⌗	MM	P13 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.909	0.609	0.050	0.050	0.559	
⌗	MM	P14 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.957	0.657	0.050	0.050	0.607	
⌗	MM	P15 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.899	0.598	0.050	0.050	0.548	
⌗	MM	P16 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.884	0.584	0.050	0.050	0.534	
⌗	MM	P17 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.927	0.626	0.050	0.050	0.576	
⌗	MM	P18 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.864	0.563	0.050	0.050	0.513	
⌗	MM	Q1 - CR_SUPPORT_RING_P12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.259	-0.241	0.080	0.080	0.161	
⌗	MM	Q2 - CR_SUPPORT_RING_P23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.287	-0.213	0.080	0.080	0.133	
⌗	MM	Q3 - CR_SUPPORT_RING_P34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.301	-0.199	0.080	0.080	0.119	
⌗	MM	Q4 - CR_SUPPORT_RING_P45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.320	-0.180	0.080	0.080	0.100	
⌗	MM	Q5 - CR_SUPPORT_RING_P56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.129	-0.371	0.080	0.080	0.291	

⌗	MM	Q6 - CR_SUPPORT_RING_P67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.209	-0.291	0.080	0.080	0.211	
⌗	MM	Q7 - CR_SUPPORT_RING_P78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.248	-0.252	0.080	0.080	0.172	
⌗	MM	Q8 - CR_SUPPORT_RING_P89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.315	-0.185	0.080	0.080	0.105	
⌗	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	210.368	19.168	0.200	0.200	18.968	
⌗	MM	R2 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	200.000	233.954	33.954	0.200	0.200	33.754	

◎	MM	U1 - CR-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.796	0.796	0.400	0.000	0.396	
◎	MM	U2 - CR-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.264	2.264	0.400	0.000	1.864	
◎	MM	U3 - CRC-CAV-1-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.394	0.394	0.400	0.000	0.000	
◎	MM	U4 - CRC-CAV-1-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.430	0.430	0.400	0.000	0.030	
◎	MM	U5 - CRC-CAV-2-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.283	1.283	0.400	0.000	0.883	
◎	MM	U6 - CRC-CAV-2-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.408	1.408	0.400	0.000	1.008	
◎	MM	U7 - CRC-CAV-3-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.981	1.981	0.400	0.000	1.581	
◎	MM	U8 - CRC-CAV-3-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.209	2.209	0.400	0.000	1.809	
◎	MM	U9 - CRC-CAV-4-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	3.143	3.143	0.400	0.000	2.743	
◎	MM	U10 - CRC-CAV-4-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	3.269	3.269	0.400	0.000	2.869	
◎	MM	U11 - CRC-CAV-5-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	3.879	3.879	0.400	0.000	3.479	
◎	MM	U12 - CRC-CAV-5-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	3.959	3.959	0.400	0.000	3.559	
◎	MM	U13 - CRC-CAV-6-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	4.309	4.309	0.400	0.000	3.909	

◎	MM	U14 - CRC-CAV-6-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	4.385	4.385	0.400	0.000	3.985	
◎	MM	U15 - CRC-CAV-7-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	3.791	3.791	0.400	0.000	3.391	
◎	MM	U16 - CRC-CAV-7-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	3.765	3.765	0.400	0.000	3.365	
◎	MM	U17 - CRC-CAV-8-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	3.229	3.229	0.400	0.000	2.829	
◎	MM	U18 - CRC-CAV-8-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.841	2.841	0.400	0.000	2.441	
◎	MM	U19 - CRC-CAV-9-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.606	1.606	0.400	0.000	1.206	
◎	MM	U20 - CRC-CAV-9-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.175	1.175	0.400	0.000	0.775	
◎	MM	U21 - CR_SUPPORT_RING_P12 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.046	1.046	0.400	0.000	0.646	
◎	MM	U22 - CR_SUPPORT_RING_P23 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.423	1.423	0.400	0.000	1.023	
◎	MM	U23 - CR_SUPPORT_RING_P34 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.743	2.743	0.400	0.000	2.343	
◎	MM	U24 - CR_SUPPORT_RING_P45 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	3.673	3.673	0.400	0.000	3.273	
◎	MM	U25 - CR_SUPPORT_RING_P56 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	4.336	4.336	0.400	0.000	3.936	
◎	MM	U26 - CR_SUPPORT_RING_P67 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	4.086	4.086	0.400	0.000	3.686	

◎	MM	U27 - CR_SUPPORT_RING_P78 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	3.589	3.589	0.400	0.000	3.189	
◎	MM	U28 - CR_SUPPORT_RING_P89 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.639	2.639	0.400	0.000	2.239	
◎	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	0.606	0.606	0.400	0.000	0.206	

◎	MM	U40 - CRC-VAC-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.198	0.198	0.400	0.000	0.000	
⊥	MM	V1 - PL-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.811	0.811	0.200	0	0.611	
⊥	MM	V2 - PL-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	1.176	1.176	0.200	0	0.976