pc-dmis	PART NAME : PN440004-n ILC 1p3GHZ RF CAVITY ASSEMBLY 000 TB9AES016 v5x IR09		April 01, 2011	15:36
	REV NUMBER :	SER NUMBER :	STATS COUNT :	1

440004-n
FNAL 1.3GHZ TESLA
RF CAVITY
ASSEMBLY
@ 000 rotation
'Inspected by ' : Robert Riley
'Cavity Number' : TB9NR003
' ' : 1104011115

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	0.001

//	MM	PARL1 - PL-NEAR-END-FLANGE TO YMINUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.239	0.239	0.200	0	0.039	

∠	DEG	ANGL1 - PL-NEAR-END-FLANGE TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	90.116	0.116	0.100	0.100	0.016	

⌗	MM	LOC2 - CR-NEAR-END-FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.095	0.095	0.200	0.200	0.000	
Z	0.000	-0.127	-0.127	0.200	0.200	0.000	
D	140.000	139.989	-0.011	0.300	0.300	0.000	
RN	0.000	0.035	0.035	0.200	0.000	0.000	

⌗	MM	LOC3 - PL-FAR-END				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1247.400	1247.598	0.198	3.000	3.000	0.000
FL	0.000	0.011	0.011	0.200	0.000	0.000

AX	I	J	K
V	-0.001	1.000	0.002

//	MM	PARL2 - PL-FAR-END TO YPLUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.214	0.214	0.200	0	0.014

∠	DEG	ANGL2 - PL-FAR-END TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.899	-0.101	0.100	0.100	-0.001

⌗	MM	LOC4 - CR-FAR-END				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.157	-0.157	0.200	0.200	0.000
Z	0.000	0.536	0.536	0.200	0.200	0.336
D	140.000	140.007	0.007	0.300	0.300	0.000
RN	0.000	0.037	0.037	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	92.827	-0.013	0.200	0.200	0.000
FL	0.000	0.095	0.095	0.200	0.000	0.000

AX	I	J	K
V	-0.003	-1.000	0.000

//	MM	PARL5 - PLC-DAT-1 TO YMINUS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.296	0.296	0.200	0	0.096

∠	DEG	ANGL7 - PLC-DAT-1 TO YAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	90.150	0.150	0.100	0.100	0.050

DATUM-2-PLANE

⌗	MM	LOC-DATUM-2-PLANE - PLC-DAT-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1154.560	1154.726	0.166	0.200	0.200	0.000
FL	0.000	0.091	0.091	0.200	0.000	0.000

AX	I	J	K
V	-0.001	1.000	0.003

//	MM	PARL6 - PLC-DAT-2 TO YPLUS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.308	0.308	0.200	0	0.108

∠	DEG	ANGL8 - PLC-DAT-2 TO YAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.835	-0.165	0.100	0.100	-0.065

↔	MM	DIST3 - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	1061.060	1061.900	0.840	0.200	0.200	0.640

↔	MM	DIST4 - PLC-DAT-2 TO PL-FAR-END (YAXIS)

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	93.500	92.872	-0.628	0.200	0.200	-0.428

PICKUP ANTENNA FLANGE NW8

⌗	MM	LOC5 - PL NW8 ANTENNA FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-53.800	-53.493	0.307	0.200	0.200	0.107
FL	0.000	0.099	0.099	0.200	0.000	0.000

AX	I	J	K
V	-1.000	0.004	0.004

//	MM	PARL3 - PL NW8 ANTENNA FLANGE TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.215	0.215	0.200	0	0.015

⦟	DEG	ANGL3 - PL NW8 ANTENNA FLANGE TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.699	-0.301	0.100	0.100	-0.201

⌗	MM	LOC6 - CR_NW8_ANTENNA_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	60.600	60.665	0.065	0.200	0.200	0.000
Z	0.000	0.156	0.156	0.200	0.200	0.000
D	33.800	33.686	-0.114	0.150	0.000	0.114
RN	0.000	0.048	0.048	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	87.761	-0.239	0.200	0.200	0.039
FL	0.000	0.007	0.007	0.200	0.000	0.000

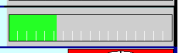
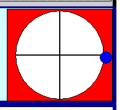
AX	I	J	K
V	1.000	0.003	-0.005

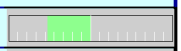
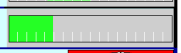
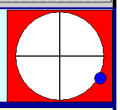
//	MM	PARL4 - PL NW 40 FLANGE TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.437	0.437	0.200	0	0.237

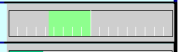
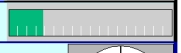
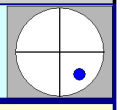
⦟	DEG	ANGL4 - PL NW 40 FLANGE TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.629	-0.371	0.100	0.100	-0.271

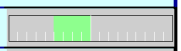
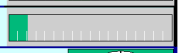
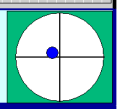
⌗	MM	LOC8 - CR_NW_40_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1186.800	1187.132	0.332	0.200	0.200	0.132
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	76.000	76.037	0.037	0.200	0.000	0.000
RN	0.000	0.030	0.030	0.200	0.000	0.000

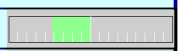
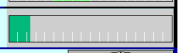
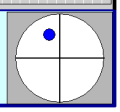
⟷	MM	DIST1 - CR_NW_40_FLANGE TO PL-FAR-END (YAXIS)				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	60.600	60.467	-0.133	0.200	0.200	0.000

	MM	TP NW40 MC BH1 - CR NW 40 FLANGE BH1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.636	-0.114					
PA	112.500	112.071	-0.429					
DF	6.700	6.587	-0.113	0.200	0.200	0.000	0.000	
RN	0.000	0.059	0.059	0.200	0.000	0.000		
TP	RFS		0.527	0.300		0.227	0.000	

	MM	TP NW40 MC BH2 - CR NW 40 FLANGE BH2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.732	-0.018					
PA	67.500	67.207	-0.293					
DF	6.700	6.595	-0.105	0.200	0.200	0.000	0.000	
RN	0.000	0.054	0.054	0.200	0.000	0.000		
TP	RFS		0.327	0.300		0.027	0.000	

	MM	TP NW40 MC BH3 - CR NW 40 FLANGE BH3						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.784	0.034					
PA	22.500	22.331	-0.169					
DF	6.700	6.599	-0.101	0.200	0.200	0.000	0.000	
RN	0.000	0.043	0.043	0.200	0.000	0.000		
TP	RFS		0.199	0.300		0.000	0.000	

	MM	TP NW40 MC BH4 - CR NW 40 FLANGE BH4						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.721	-0.029					
PA	-22.500	-22.491	0.009					
DF	6.700	6.610	-0.090	0.200	0.200	0.000	0.000	
RN	0.000	0.024	0.024	0.200	0.000	0.000		
TP	RFS		0.059	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	31.662	-0.088					
PA	-67.500	-67.504	-0.004					
DF	6.700	6.607	-0.093	0.200	0.200	0.000	0.000	
RN	0.000	0.027	0.027	0.200	0.000	0.000		
TP	RFS		0.177	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	31.572	-0.178					
PA	-112.500	-112.607	-0.107					
DF	6.700	6.596	-0.104	0.200	0.200	0.000	0.000	
RN	0.000	0.040	0.040	0.200	0.000	0.000		
TP	RFS		0.375	0.300		0.075	0.000	

	MM	TP NW40 MC BH7 - CR NW 40 FLANGE BH7						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.572	-0.178					
PA	-157.500	-157.689	-0.189					
DF	6.700	6.586	-0.114	0.200	0.200	0.000	0.000	
RN	0.000	0.048	0.048	0.200	0.000	0.000		
TP	RFS		0.412	0.300		0.112	0.000	

	MM	TP NW40 MC BH8 - CR NW 40 FLANGE BH8						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.585	-0.165					
PA	157.500	157.129	-0.371					
DF	6.700	6.589	-0.111	0.200	0.200	0.000	0.000	
RN	0.000	0.042	0.042	0.200	0.000	0.000		
TP	RFS		0.527	0.300		0.227	0.000	

HOM-2 FLANGE NW12

	MM	FLAT4 - PL-NW12-FLANGE-HOM2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.006	0.006	0.200	0.000	0.000	

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

AX	I	J	K
V	-0.542	0.259	0.799

	DEG	ANGL6 - PL-NW12-FLANGE-HOM2 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	55.860	20.860	0.500	0.500	20.360	

	MM	LOC9 - CR-NW12-FLANGE-HOM2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-71.791	-71.791	100.000	100.000	0.000	
Y	0.000	1190.393	1190.393	2000.000	2000.000	0.000	
Z	0.000	-8.681	-8.681	100.000	100.000	0.000	
D	33.800	33.518	-0.282	0.150	0.000	0.282	
RN	0.000	0.299	0.299	0.150	0.000	0.149	

	MM	DIST FORMTEIL2 POINT - PT-FORMTEIL2 TO PL-NW12-FLANGE-HOM2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	28.420	28.391	-0.029	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	28.392	-0.028	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	105.259	90.259	0.500	0.500	89.759	

HOM 1 LOCATION

	MM	LOC-HOM1 - CY-HOM-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	69.306	69.306	100.000	100.000	0.000	
Y	60.600	60.352	-0.248	0.200	0.200	0.048	
Z	0.000	-39.435	-39.435	100.000	100.000	0.000	
D	44.000	43.796	-0.204	0.000	0.100	0.104	
RN	0.000	0.105	0.105	0.100	0.000	0.005	

AX	I	J	K
V	-0.868	0.003	0.496

	DEG	ANGL9 - CY-HOM-1 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	30.000	29.755	-0.245	0.500	0.500	0.000	

	DEG	ANGL10 - CY-HOM-1 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	-90.000	-89.841	0.159	0.500	0.500	0.000	

	DEG	ANGL11 - CY-HOM-1 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	60.000	60.245	0.245	0.500	0.500	0.000	

INTERSECTION OF HOM1 & YZ PLANE

	MM	LOC-HOM1 X PLANE - PTC-HOM1 X YZ PLANE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.000	0.000	0.200	0.200	0.000	
Y	60.600	60.573	-0.027	0.200	0.200	0.000	
Z	0.000	0.184	0.184	0.200	0.200	0.000	

	MM	LOC_HOM1_FLANGE_A - PL_NW12_FLANGE_HOM1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.003	0.003	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	-0.471	-0.253	-0.845

⦟	DEG	ANGL17 - PL_NW12_FLANGE_HOM1 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	15.000	106.700	91.700	0.500	0.500	91.200	
⌗	MM	LOC_HOM1_FLANGE_D - CR_NW12_FLANGE_HOM1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	40.497	40.370	-0.126	100.000	100.000	0.000	
Y	92.086	58.175	-33.911	100.000	100.000	0.000	
Z	-56.755	-59.455	-2.700	100.000	100.000	0.000	
D	33.800	33.426	-0.374	0.150	0.150	0.224	
RN	0.000	0.162	0.162	0.150	0.000	0.012	

HOM 2 LOCATION

⌗	MM	LOC-HOM2 - CY-HOM-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-64.802	-64.802	100.000	100.000	0.000	
Y	1186.800	1187.007	0.207	3.000	3.000	0.000	
Z	0.000	-44.785	-44.785	100.000	100.000	0.000	
D	44.000	43.609	-0.391	0.000	0.100	0.291	
RN	0.000	0.244	0.244	0.100	0.000	0.144	

AX	I	J	K
V	-0.818	-0.006	-0.575

⟷	MM	DIST2 - CY-HOM-2 TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	60.600	60.591	-0.009	0.200	0.200	0.000	

⦟	DEG	ANGL12 - CY-HOM-2 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	35.124	0.124	0.500	0.500	0.000	

⦟	DEG	ANGL13 - CY-HOM-2 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	-90.000	-90.331	-0.331	0.500	0.500	0.000	

⦟	DEG	ANGL14 - CY-HOM-2 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	55.000	54.876	-0.124	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	1187.465	0.665	3.000	3.000	0.000	
Z	0.000	0.799	0.799	0.200	0.200	0.599	

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

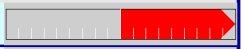
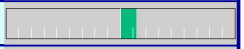
⌗	MM	LOC-CC1 - CRC-DAT-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.000	0.000	0.200	0.200	0.000	
Y	0.000	94.592	94.592	2000.000	2000.000	0.000	
Z	0.000	0.000	0.000	0.200	0.200	0.000	
D	111.000	110.752	-0.248	0.050	0.050	0.198	
RN	0.000	0.041	0.041	0.050	0.000	0.000	

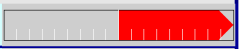
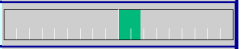
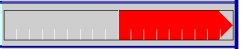
⌗	MM	LOC-CC2 - CRC-VAC-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.021	0.021	0.200	0.200	0.000	
Y	158.307	122.306	-36.002	2000.000	2000.000	0.000	
Z	0.000	0.125	0.125	0.200	0.200	0.000	
D	211.000	210.693	-0.307	0.200	0.200	0.107	
RN	0.000	0.176	0.176	0.200	0.000	0.000	

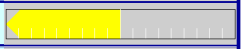
⌗	MM	LOC-CC3 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.047	0.046	0.200	0.200	0.000	
Y	0.000	156.475	156.475	2000.000	2000.000	0.000	
Z	0.000	0.020	0.020	0.200	0.200	0.000	
D	210.300	211.006	0.706	0.200	0.200	0.506	
RN	0.000	0.484	0.484	0.200	0.000	0.284	

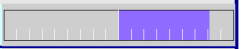
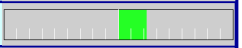
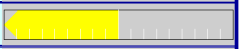
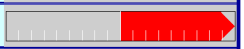
⌗	MM	LOC-CC4 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.159	-0.159	0.200	0.200	0.000	
Y	0.000	166.701	166.701	2000.000	2000.000	0.000	
Z	0.000	0.080	0.080	0.200	0.200	0.000	
D	210.300	210.952	0.652	0.200	0.200	0.452	
RN	0.000	0.203	0.203	0.200	0.000	0.003	

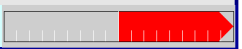
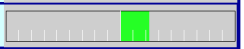
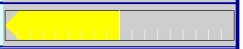
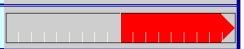
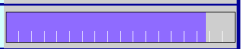
⌗	MM	LOC-CC5 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.223	0.223	0.200	0.200	0.023	
Y	0.000	273.406	273.406	2000.000	2000.000	0.000	
Z	0.000	-0.152	-0.152	0.200	0.200	0.000	
D	210.300	210.886	0.586	0.200	0.200	0.386	
RN	0.000	0.344	0.344	0.200	0.000	0.144	

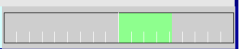
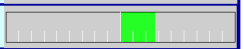
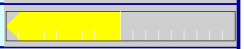
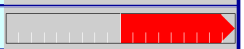
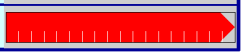
⌗	MM	LOC-CC6 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.321	0.320	0.200	0.200	0.120	
Y	0.000	283.183	283.183	2000.000	2000.000	0.000	
Z	0.000	-0.118	-0.118	0.200	0.200	0.000	
D	210.300	210.899	0.599	0.200	0.200	0.399	
RN	0.000	0.412	0.412	0.200	0.000	0.212	

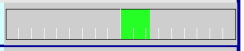
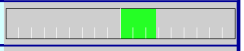
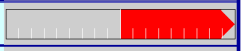
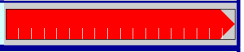
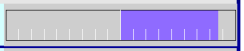
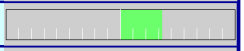
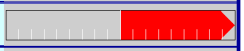
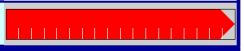
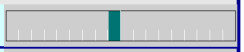
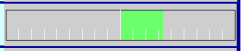
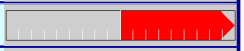
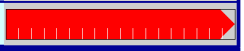
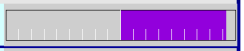
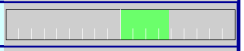
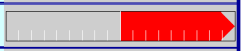
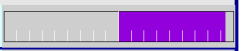
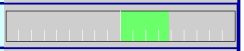
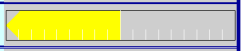
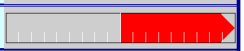
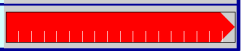
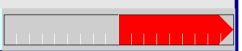
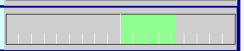
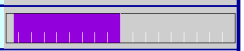
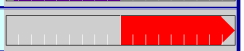
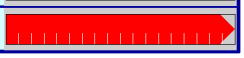
⌗	MM	LOC-CC7 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.648	0.648	0.200	0.200	0.448	
Y	0.000	388.590	388.590	2000.000	2000.000	0.000	
Z	0.000	-0.161	-0.161	0.200	0.200	0.000	
D	210.300	210.905	0.605	0.200	0.200	0.405	
RN	0.000	0.506	0.506	0.200	0.000	0.306	

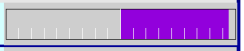
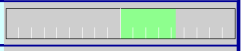
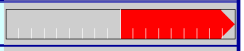
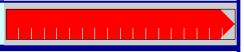
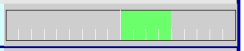
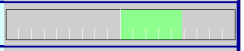
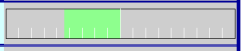
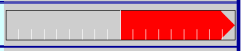
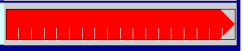
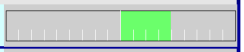
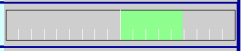
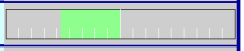
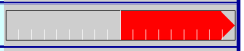
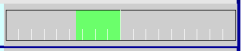
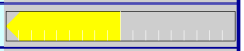
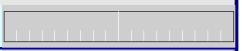
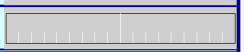
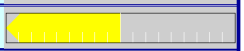
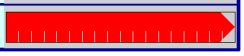
⌗	MM	LOC-CC8 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.428	0.428	0.200	0.200	0.228	
Y	0.000	398.912	398.912	2000.000	2000.000	0.000	
Z	0.000	-0.382	-0.382	0.200	0.200	0.182	
D	210.300	210.965	0.664	0.200	0.200	0.464	
RN	0.000	0.471	0.471	0.200	0.000	0.271	

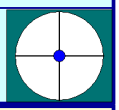
⌗	MM	LOC-CC9 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.159	0.159	0.200	0.200	0.000	
Y	0.000	503.768	503.768	2000.000	2000.000	0.000	
Z	0.000	-0.509	-0.509	0.200	0.200	0.309	
D	210.300	210.972	0.672	0.200	0.200	0.472	
RN	0.000	0.387	0.387	0.200	0.000	0.187	

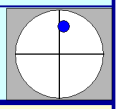
⌗	MM	LOC-CC10 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.214	0.213	0.200	0.200	0.013	
Y	0.000	513.146	513.146	2000.000	2000.000	0.000	
Z	0.000	-0.399	-0.400	0.200	0.200	0.200	
D	210.300	210.942	0.642	0.200	0.200	0.442	
RN	0.000	0.175	0.175	0.200	0.000	0.000	

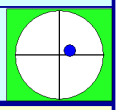
⌗	MM	LOC-CC11 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.094	0.094	0.200	0.200	0.000	
Y	0.000	619.079	619.079	2000.000	2000.000	0.000	
Z	0.000	-0.330	-0.330	0.200	0.200	0.130	
D	210.300	210.906	0.605	0.200	0.200	0.405	
RN	0.000	0.341	0.341	0.200	0.000	0.141	

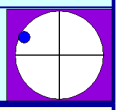
⌗	MM	LOC-CC12 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.052	0.052	0.200	0.200	0.000	
Y	0.000	628.447	628.447	2000.000	2000.000	0.000	
Z	0.000	-0.446	-0.446	0.200	0.200	0.246	
D	210.300	210.876	0.576	0.200	0.200	0.376	
RN	0.000	0.597	0.597	0.200	0.000	0.397	
⌗	MM	LOC-CC13 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.171	0.171	0.200	0.200	0.000	
Y	0.000	734.758	734.758	2000.000	2000.000	0.000	
Z	0.000	-0.421	-0.421	0.200	0.200	0.221	
D	210.300	210.899	0.598	0.200	0.200	0.398	
RN	0.000	0.460	0.460	0.200	0.000	0.260	
⌗	MM	LOC-CC14 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.020	-0.021	0.200	0.200	0.000	
Y	0.000	743.961	743.961	2000.000	2000.000	0.000	
Z	0.000	-0.374	-0.375	0.200	0.200	0.175	
D	210.300	210.957	0.657	0.200	0.200	0.457	
RN	0.000	0.276	0.276	0.200	0.000	0.076	
⌗	MM	LOC-CC15 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.185	0.185	0.200	0.200	0.000	
Y	0.000	850.132	850.132	2000.000	2000.000	0.000	
Z	0.000	-0.221	-0.221	0.200	0.200	0.021	
D	210.300	210.637	0.337	0.200	0.200	0.137	
RN	0.000	0.199	0.199	0.200	0.000	0.000	
⌗	MM	LOC-CC16 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.187	0.186	0.200	0.200	0.000	
Y	0.000	860.076	860.076	2000.000	2000.000	0.000	
Z	0.000	-0.343	-0.343	0.200	0.200	0.143	
D	210.300	210.676	0.376	0.200	0.200	0.176	
RN	0.000	0.374	0.374	0.200	0.000	0.174	
⌗	MM	LOC-CC17 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.268	0.268	0.200	0.200	0.068	
Y	0.000	964.943	964.943	2000.000	2000.000	0.000	
Z	0.000	-0.185	-0.186	0.200	0.200	0.000	
D	210.300	210.933	0.633	0.200	0.200	0.433	
RN	0.000	0.300	0.300	0.200	0.000	0.100	

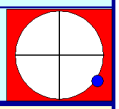
⌗	MM	LOC-CC18 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.189	0.189	0.200	0.200	0.000	
Y	0.000	975.960	975.960	2000.000	2000.000	0.000	
Z	0.000	-0.231	-0.231	0.200	0.200	0.031	
D	210.300	210.973	0.673	0.200	0.200	0.473	
RN	0.000	0.472	0.472	0.200	0.000	0.272	
⌗	MM	LOC-CC19 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.088	0.088	0.200	0.200	0.000	
Y	0.000	1081.543	1081.543	2000.000	2000.000	0.000	
Z	0.000	-0.097	-0.097	0.200	0.200	0.000	
D	210.300	210.751	0.450	0.200	0.200	0.250	
RN	0.000	0.311	0.311	0.200	0.000	0.111	
⌗	MM	LOC-CC20 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.087	0.087	0.200	0.200	0.000	
Y	0.000	1091.845	1091.845	2000.000	2000.000	0.000	
Z	0.000	-0.104	-0.104	0.200	0.200	0.000	
D	210.300	210.935	0.635	0.200	0.200	0.435	
RN	0.000	0.146	0.146	0.200	0.000	0.000	
⌗	MM	LOC-CC21 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.078	-0.078	0.200	0.200	0.000	
Y	1156.557	1126.051	-30.506	2000.000	2000.000	0.000	
Z	0.000	-0.173	-0.174	0.200	0.200	0.000	
D	235.000	234.166	-0.834	0.200	0.200	0.634	
RN	0.000	0.277	0.277	0.200	0.000	0.077	
⌗	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	1152.650	1152.650	2000.000	2000.000	0.000	
Z	0.000	0.000	0.000	0.200	0.200	0.000	
D	111.000	110.657	-0.342	0.050	0.050	0.292	
RN	0.000	0.071	0.071	0.050	0.000	0.021	

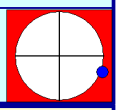
⌖	MM	LOC-TP-CC1 - CRC-DAT-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	0.000	0.000					
Z	0.000	0.000	0.000					
TP	RFS		0.000	0.400		0.000	0.000	

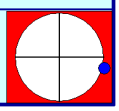
⌖	MM	LOC-TP-CC2 - CRC-VAC-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	0.021	0.021					
Z	0.000	0.125	0.125					
TP	RFS		0.253	0.400		0.000	0.000	

⌖	MM	LOC-TP-CC3 - CRC-CAV-1-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	0.047	0.046					
Z	0.000	0.020	0.020					
TP	RFS		0.101	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	-0.159	-0.159					
Z	0.000	0.080	0.080					
TP	RFS		0.356	0.400		0.000	0.000	

⌖	MM	LOC-TP-CC5 - CRC-CAV-2-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	0.223	0.223					
Z	0.000	-0.152	-0.152					
TP	RFS		0.541	0.400		0.141	0.000	

⌖	MM	LOC-TP-CC6 - CRC-CAV-2-2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	0.321	0.320					
Z	0.000	-0.118	-0.118					
TP	RFS		0.683	0.400		0.283	0.000	

⌖	MM	LOC-TP-CC7 - CRC-CAV-3-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	0.648	0.648					
Z	0.000	-0.161	-0.161					
TP	RFS		1.335	0.400		0.935	0.000	

⌖	MM	LOC-TP-CC8 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.428	0.428				
Z	0.000	-0.382	-0.382				
TP	RFS		1.146	0.400		0.746	0.000

⌖	MM	LOC-TP-CC9 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.159	0.159				
Z	0.000	-0.509	-0.509				
TP	RFS		1.067	0.400		0.667	0.000

⌖	MM	LOC-TP-CC10 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.214	0.213				
Z	0.000	-0.399	-0.400				
TP	RFS		0.906	0.400		0.506	0.000

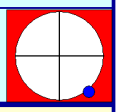
⌖	MM	LOC-TP-CC11 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.094	0.094				
Z	0.000	-0.330	-0.330				
TP	RFS		0.685	0.400		0.285	0.000

⌖	MM	LOC-TP-CC12 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.052	0.052				
Z	0.000	-0.446	-0.446				
TP	RFS		0.898	0.400		0.498	0.000

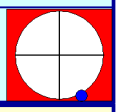
⌖	MM	LOC-TP-CC13 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.171	0.171				
Z	0.000	-0.421	-0.421				
TP	RFS		0.908	0.400		0.508	0.000

⌖	MM	LOC-TP-CC14 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.020	-0.021				
Z	0.000	-0.374	-0.375				
TP	RFS		0.750	0.400		0.350	0.000

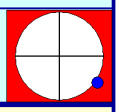
⌖	MM	LOC-TP-CC15 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.185	0.185				
Z	0.000	-0.221	-0.221				
TP	RFS		0.575	0.400		0.175	0.000



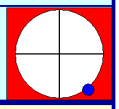
⌖	MM	LOC-TP-CC16 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.187	0.186				
Z	0.000	-0.343	-0.343				
TP	RFS		0.781	0.400		0.381	0.000



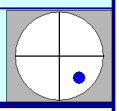
⌖	MM	LOC-TP-CC17 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.268	0.268				
Z	0.000	-0.185	-0.186				
TP	RFS		0.651	0.400		0.251	0.000



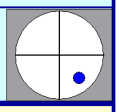
⌖	MM	LOC-TP-CC18 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.189	0.189				
Z	0.000	-0.231	-0.231				
TP	RFS		0.597	0.400		0.197	0.000



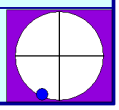
⌖	MM	LOC-TP-CC19 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.088	0.088				
Z	0.000	-0.097	-0.097				
TP	RFS		0.263	0.400		0.000	0.000

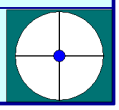


⌖	MM	LOC-TP-CC20 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.087	0.087				
Z	0.000	-0.104	-0.104				
TP	RFS		0.271	0.400		0.000	0.000

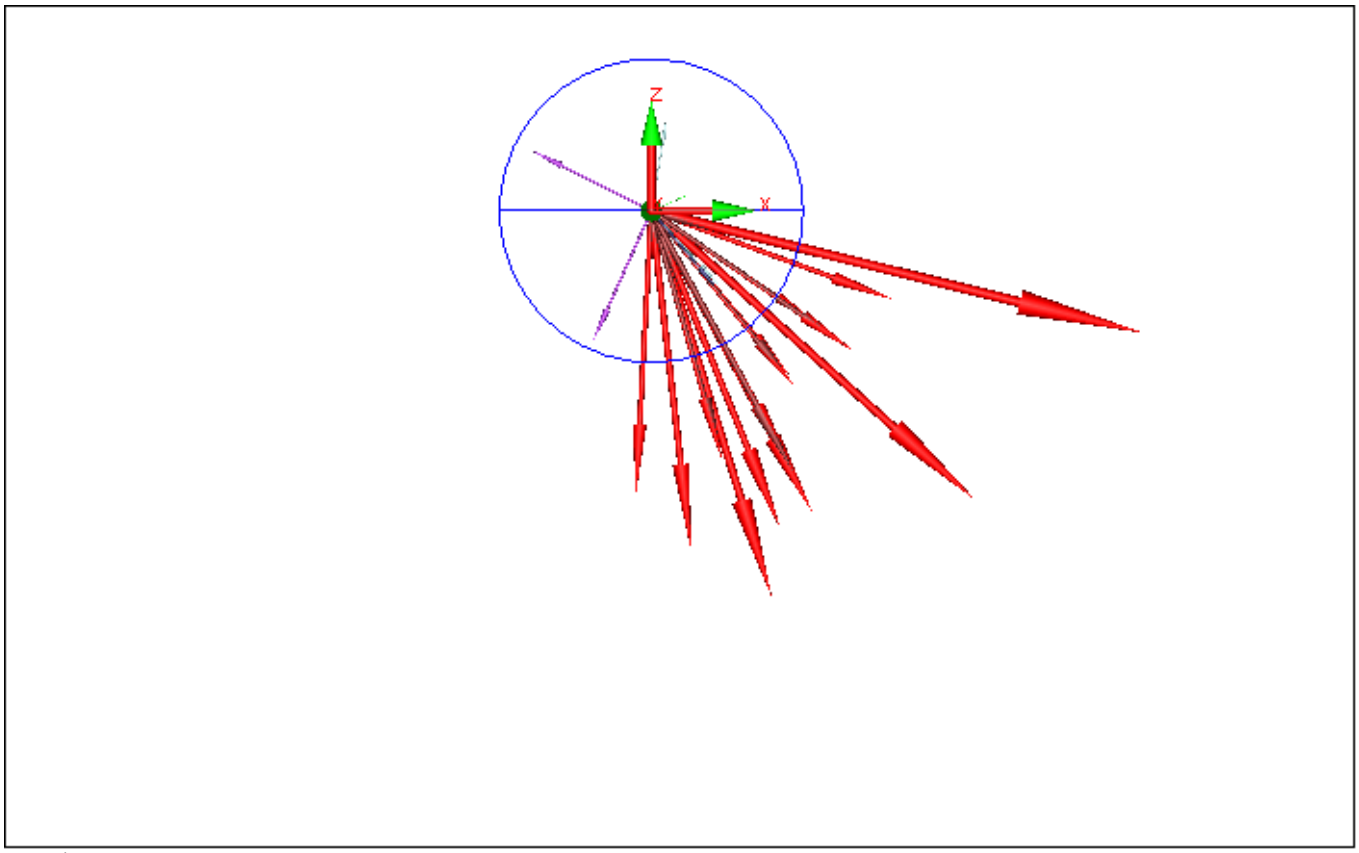


⌖	MM	LOC-TP-CC21 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.078	-0.078				
Z	0.000	-0.173	-0.174				
TP	RFS		0.380	0.400		0.000	0.000

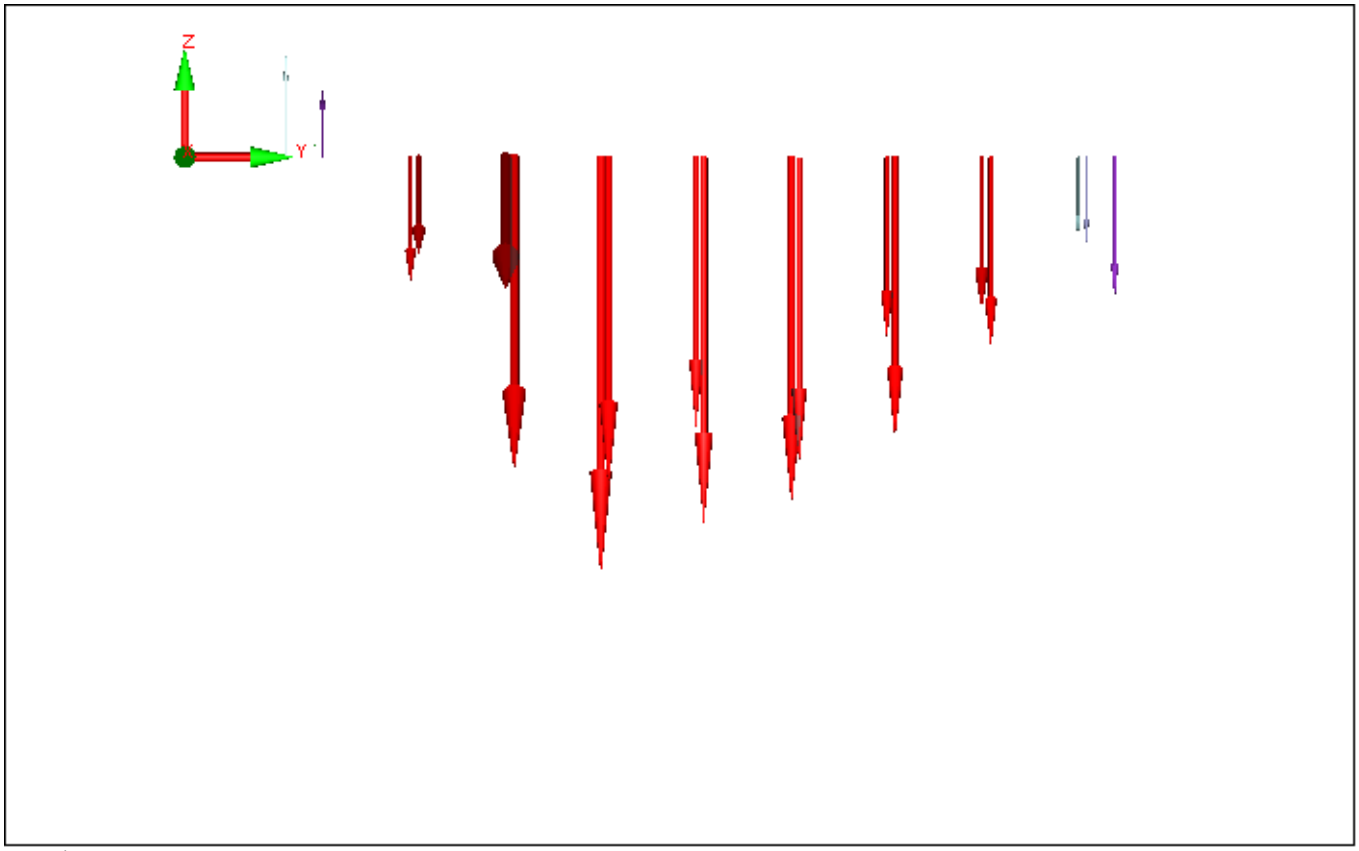


⌖	MM	LOC-TP-CC22 - CRC-DAT-2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	0.000	0.000					
Z	0.000	0.000	0.000					
TP	RFS		0.000	0.400		0.000	0.000	

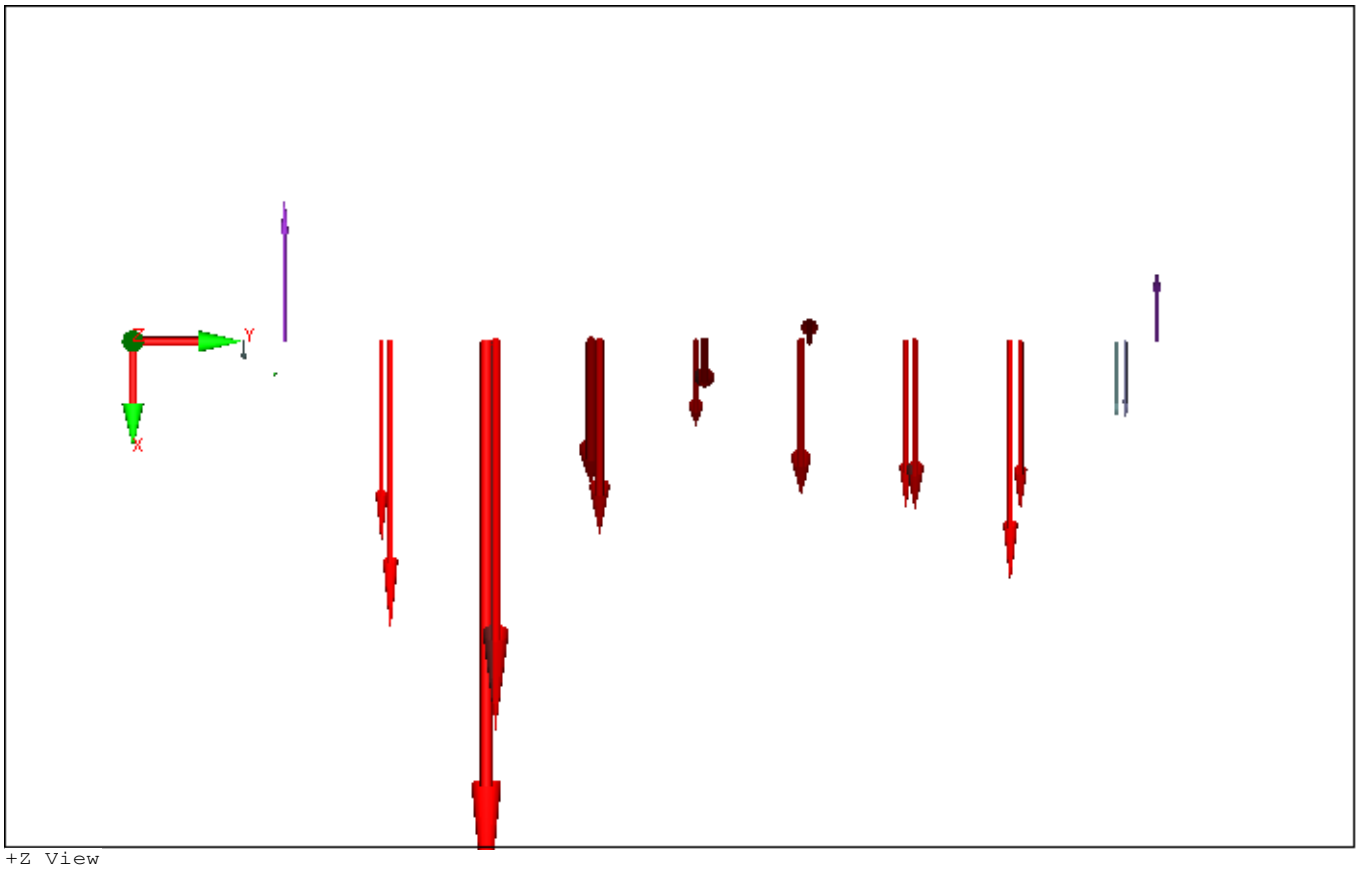
True Position plots from 3 views
x1000



-Y View
x1000



+X View
x1000



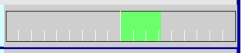
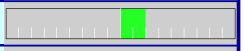
+Z View
x1000

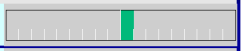
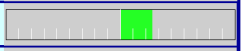
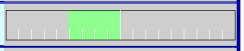
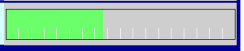
#	MM	LOC-BEST FIT CONSTRUCTED LINE - LNC-BEST-FIT					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.295	0.142	-0.153	0.200	0.200	0.000	
Y	658.560	624.115	-34.446	2000.000	2000.000	0.000	
Z	0.000	-0.201	-0.201	0.200	0.200	0.001	
ST	0.000	0.888	0.888	0.400	0.000	0.488	

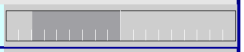
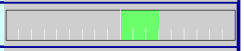
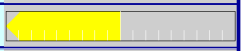
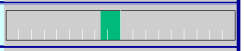
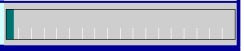
SUPPORT RING CIRCLE LOCATIONS
Positive -X- side (right)

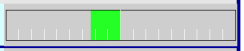
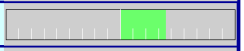
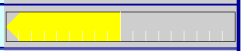
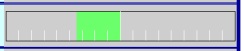
#	MM	LOC-SUPPORT RING-P1 - CR_SUPPORT_RING_P12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.210	0.210	0.200	0.200	0.010	
Y	0.000	218.986	218.986	2000.000	2000.000	0.000	
Z	0.000	-0.154	-0.154	0.200	0.200	0.000	
R	56.500	56.347	-0.153	0.200	0.200	0.000	
RN	0.000	0.150	0.150	0.200	0.000	0.000	

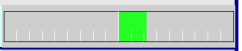
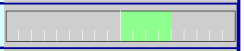
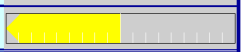
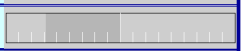
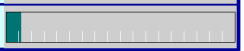
#	MM	LOC-SUPPORT RING-P2 - CR_SUPPORT_RING_P23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.427	0.427	0.200	0.200	0.227	
Y	0.000	334.574	334.574	2000.000	2000.000	0.000	
Z	0.000	-0.314	-0.314	0.200	0.200	0.114	
R	56.500	56.297	-0.203	0.200	0.200	0.003	
RN	0.000	0.050	0.050	0.200	0.000	0.000	

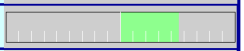
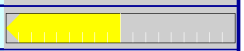
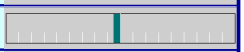
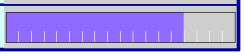
⌗	MM	LOC-SUPPORT RING-P3 - CR_SUPPORT_RING_P34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.071	0.071	0.200	0.200	0.000	
Y	0.000	449.492	449.492	2000.000	2000.000	0.000	
Z	0.000	-0.198	-0.198	0.200	0.200	0.000	
R	56.500	56.636	0.136	0.200	0.200	0.000	
RN	0.000	0.134	0.134	0.200	0.000	0.000	

⌗	MM	LOC-SUPPORT RING-P4 - CR_SUPPORT_RING_P45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.024	0.024	0.200	0.200	0.000	
Y	0.000	565.081	565.081	2000.000	2000.000	0.000	
Z	0.000	-0.346	-0.346	0.200	0.200	0.146	
R	56.500	56.410	-0.090	0.200	0.200	0.000	
RN	0.000	0.085	0.085	0.200	0.000	0.000	

⌗	MM	LOC-SUPPORT RING-P5 - CR_SUPPORT_RING_P56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.154	-0.154	0.200	0.200	0.000	
Y	0.000	680.374	680.374	2000.000	2000.000	0.000	
Z	0.000	-0.700	-0.700	0.200	0.200	0.500	
R	56.500	56.466	-0.034	0.200	0.200	0.000	
RN	0.000	0.007	0.007	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	-0.051	-0.051	0.200	0.200	0.000	
Y	0.000	795.778	795.778	2000.000	2000.000	0.000	
Z	0.000	-0.224	-0.224	0.200	0.200	0.024	
R	56.500	56.424	-0.076	0.200	0.200	0.000	
RN	0.000	0.114	0.114	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	0.050	0.050	0.200	0.200	0.000	
Y	0.000	911.271	911.271	2000.000	2000.000	0.000	
Z	0.000	-0.239	-0.239	0.200	0.200	0.039	
R	56.500	56.371	-0.129	0.200	0.200	0.000	
RN	0.000	0.014	0.014	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	-0.056	-0.056	0.200	0.200	0.000	
Y	0.000	1027.078	1027.078	2000.000	2000.000	0.000	
Z	0.000	-0.244	-0.244	0.200	0.200	0.044	
R	56.500	56.488	-0.012	0.200	0.200	0.000	
RN	0.000	0.156	0.156	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	0.111	0.111	0.200	0.200	0.000	
Y	255.357	219.006	-36.352	2000.000	2000.000	0.000	
Z	0.000	-0.052	-0.052	0.200	0.200	0.000	
R	56.500	56.326	-0.174	0.200	0.200	0.000	
RN	0.000	0.141	0.141	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	0.555	0.555	0.200	0.200	0.355	
Y	370.957	334.608	-36.349	2000.000	2000.000	0.000	
Z	0.000	-0.261	-0.261	0.200	0.200	0.061	
R	56.500	56.366	-0.134	0.200	0.200	0.000	
RN	0.000	0.076	0.076	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	0.657	0.657	0.200	0.200	0.457	
Y	485.857	449.513	-36.344	2000.000	2000.000	0.000	
Z	0.000	-0.436	-0.436	0.200	0.200	0.236	
R	56.500	56.557	0.057	0.200	0.200	0.000	
RN	0.000	0.067	0.067	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	0.088	0.088	0.200	0.200	0.000	
Y	601.457	565.104	-36.353	2000.000	2000.000	0.000	
Z	0.000	-0.418	-0.418	0.200	0.200	0.218	
R	56.500	56.170	-0.330	0.200	0.200	0.130	
RN	0.000	0.046	0.046	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	0.337	0.337	0.200	0.200	0.137	
Y	716.757	680.415	-36.342	2000.000	2000.000	0.000	
Z	0.000	-0.811	-0.811	0.200	0.200	0.611	
R	56.500	56.666	0.166	0.200	0.200	0.000	
RN	0.000	0.279	0.279	0.200	0.000	0.079	

⌗	MM	LOC_SUPPORT_RING_N6 - CR_SUPPORT_RING_N67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.014	0.014	0.200	0.200	0.000	
Y	832.157	795.806	-36.351	2000.000	2000.000	0.000	
Z	0.000	-0.249	-0.249	0.200	0.200	0.049	
R	56.500	56.269	-0.231	0.200	0.200	0.031	
RN	0.000	0.027	0.027	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	0.331	0.331	0.200	0.200	0.131	
Y	947.657	911.310	-36.347	2000.000	2000.000	0.000	
Z	0.000	-0.254	-0.255	0.200	0.200	0.055	
R	56.500	56.311	-0.189	0.200	0.200	0.000	
RN	0.000	0.107	0.107	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	0.270	0.270	0.200	0.200	0.070	
Y	1063.457	1027.107	-36.351	2000.000	2000.000	0.000	
Z	0.000	-0.194	-0.194	0.200	0.200	0.000	
R	56.500	56.384	-0.116	0.200	0.200	0.000	
RN	0.000	0.002	0.002	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	0.436	0.436	0.400	0.000	0.036	

◎	MM	CON_N12 - CR_SUPPORT_RING_N12 TO LINC_SUPPORT_RING_B12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.169	0.169	0.400	0.000	0.000	

◎	MM	CON_P23 - CR_SUPPORT_RING_P23 TO LINC_SUPPORT_RING_B23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.367	0.367	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	0.287	0.287	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	0.668	0.668	0.400	0.000	0.268	

◎	MM	CON_N34 - CR_SUPPORT_RING_N34 TO LINC_SUPPORT_RING_B34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.718	0.718	0.400	0.000	0.318	

◎	MM	CON_P45 - CR_SUPPORT_RING_P45 TO LINC_SUPPORT_RING_B45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.265	0.265	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	0.170	0.170	0.400	0.000	0.000	
◎	MM	CON_P56 - CR_SUPPORT_RING_P56 TO LINC_SUPPORT_RING_B56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.749	0.749	0.400	0.000	0.349	
◎	MM	CON_N56 - CR_SUPPORT_RING_N56 TO LINC_SUPPORT_RING_B56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.880	0.880	0.400	0.000	0.480	
◎	MM	CON_P67 - CR_SUPPORT_RING_P67 TO LINC_SUPPORT_RING_B67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.302	0.302	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	0.167	0.167	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	0.357	0.357	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	0.212	0.212	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	0.422	0.422	0.400	0.000	0.022	
◎	MM	CON_N89 - CR_SUPPORT_RING_N89 TO LINC_SUPPORT_RING_B89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.266	0.266	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	1247.598	0.198	0.200	0.200	0.000	
⟷	MM	B - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1061.060	1061.900	0.840	0.200	0.200	0.640	
⟷	MM	C - PLC-DAT-1 TO CR_NW8_ANTENNA_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	32.240	32.161	-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	32.405	-0.495	0.200	0.200	-0.295	
⟷	MM	E - LNC-LEVEL TO PL NW8 ANTENNA FLANGE (XAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	53.800	53.493	-0.307	0.200	0.200	-0.107	
⟷	MM	F - LNC-LEVEL TO PL NW 40 FLANGE (XAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	88.000	87.761	-0.239	0.200	0.200	-0.039	
⌗	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	28.392	-0.028	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	60.352	-0.248	0.200	0.200	-0.048	
⟷	MM	I2 - PL-NEAR-END-FLANGE TO CY-HOM-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1187.007	0.207	0.200	0.200	0.007	
⟷	MM	I3 - PL-NEAR-END-FLANGE TO CR_NW_40_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1187.132	0.332	0.200	0.200	0.132	
∡	DEG	K - CY-HOM-1 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	30.000	29.755	-0.245	0.500	0.500	0.000	
∡	DEG	L - CY-HOM-2 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	35.124	0.124	0.500	0.500	0.000	

⊿	DEG	M - LINC_AXIS_NW40 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	0.000	0.000	0.000	0.500	0.500	0.000	
⌗	MM	O1 - CR-NEAR-END-FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	140.000	139.989	-0.011	0.300	0.300	0.000	
⌗	MM	O2 - CR-FAR-END					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	140.000	140.007	0.007	0.300	0.300	0.000	
⌗	MM	P1 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.006	0.705	0.050	0.050	0.655	
⌗	MM	P2 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.952	0.652	0.050	0.050	0.602	
⌗	MM	P3 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.886	0.585	0.050	0.050	0.535	
⌗	MM	P4 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.899	0.598	0.050	0.050	0.548	
⌗	MM	P5 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.905	0.605	0.050	0.050	0.555	
⌗	MM	P6 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.965	0.664	0.050	0.050	0.614	
⌗	MM	P7 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.972	0.672	0.050	0.050	0.622	
⌗	MM	P8 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.942	0.641	0.050	0.050	0.591	
⌗	MM	P9 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.906	0.605	0.050	0.050	0.555	
⌗	MM	P10 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.876	0.575	0.050	0.050	0.525	

⌗	MM	P11 - CRC-CAV-6-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.899	0.598	0.050	0.050	0.548

⌗	MM	P12 - CRC-CAV-6-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.957	0.656	0.050	0.050	0.606

⌗	MM	P13 - CRC-CAV-7-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.637	0.337	0.050	0.050	0.287

⌗	MM	P14 - CRC-CAV-7-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.676	0.376	0.050	0.050	0.326

⌗	MM	P15 - CRC-CAV-8-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.933	0.633	0.050	0.050	0.583

⌗	MM	P16 - CRC-CAV-8-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.973	0.672	0.050	0.050	0.622

⌗	MM	P17 - CRC-CAV-9-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.751	0.450	0.050	0.050	0.400

⌗	MM	P18 - CRC-CAV-9-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.935	0.635	0.050	0.050	0.585

⌗	MM	Q1 - CR_SUPPORT_RING_P12

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.347	-0.153	0.080	0.080	0.073

⌗	MM	Q2 - CR_SUPPORT_RING_P23

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.297	-0.203	0.080	0.080	0.123

⌗	MM	Q3 - CR_SUPPORT_RING_P34

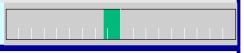
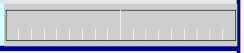
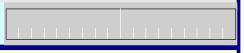
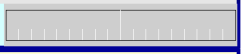
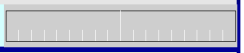
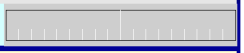
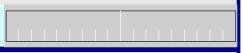
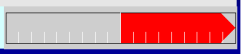
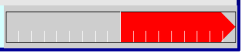
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.636	0.136	0.080	0.080	0.056

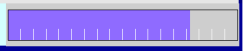
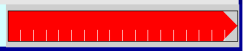
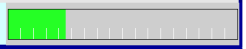
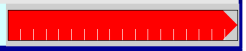
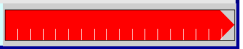
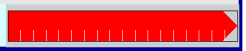
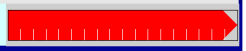
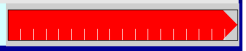
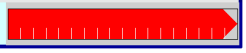
⌗	MM	Q4 - CR_SUPPORT_RING_P45

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.410	-0.090	0.080	0.080	0.010

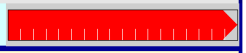
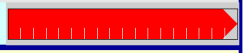
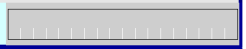
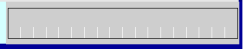
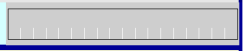
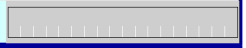
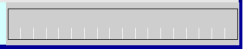
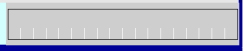
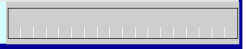
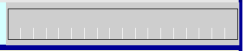
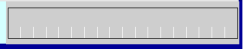
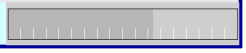
⌗	MM	Q5 - CR_SUPPORT_RING_P56

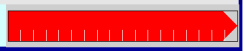
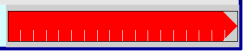
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.466	-0.034	0.080	0.080	0.000

⌗	MM	Q6 - CR_SUPPORT_RING_P67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.424	-0.076	0.080	0.080	0.000	
⌗	MM	Q7 - CR_SUPPORT_RING_P78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.371	-0.129	0.080	0.080	0.049	
⌗	MM	Q8 - CR_SUPPORT_RING_P89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.488	-0.012	0.080	0.080	0.000	
⌗	MM	Q9 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌗	MM	Q10 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌗	MM	Q11 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌗	MM	Q12 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌗	MM	Q13 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌗	MM	Q14 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌗	MM	Q15 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌗	MM	Q16 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌗	MM	R1 - CRC-VAC-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	191.200	210.693	19.493	0.200	0.200	19.293	
⌗	MM	R2 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	200.000	234.166	34.166	0.200	0.200	33.966	

◎	MM	U1 - CR-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.318	0.318	0.400	0.000	0.000	
◎	MM	U2 - CR-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.118	1.118	0.400	0.000	0.718	
◎	MM	U3 - CRC-CAV-1-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.101	0.101	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	0.356	0.356	0.400	0.000	0.000	
◎	MM	U5 - CRC-CAV-2-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.541	0.541	0.400	0.000	0.141	
◎	MM	U6 - CRC-CAV-2-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.683	0.683	0.400	0.000	0.283	
◎	MM	U7 - CRC-CAV-3-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.335	1.335	0.400	0.000	0.935	
◎	MM	U8 - CRC-CAV-3-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.146	1.146	0.400	0.000	0.746	
◎	MM	U9 - CRC-CAV-4-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.067	1.067	0.400	0.000	0.667	
◎	MM	U10 - CRC-CAV-4-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.906	0.906	0.400	0.000	0.506	
◎	MM	U11 - CRC-CAV-5-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.685	0.685	0.400	0.000	0.285	
◎	MM	U12 - CRC-CAV-5-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.898	0.898	0.400	0.000	0.498	
◎	MM	U13 - CRC-CAV-6-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.908	0.908	0.400	0.000	0.508	

◎	MM	U14 - CRC-CAV-6-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.750	0.750	0.400	0.000	0.350	
◎	MM	U15 - CRC-CAV-7-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.575	0.575	0.400	0.000	0.175	
◎	MM	U16 - CRC-CAV-7-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.781	0.781	0.400	0.000	0.381	
◎	MM	U17 - CRC-CAV-8-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.651	0.651	0.400	0.000	0.251	
◎	MM	U18 - CRC-CAV-8-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.597	0.597	0.400	0.000	0.197	
◎	MM	U19 - CRC-CAV-9-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.263	0.263	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	0.271	0.271	0.400	0.000	0.000	
◎	MM	U21 - CR_SUPPORT_RING_P12 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.521	0.521	0.400	0.000	0.121	
◎	MM	U22 - CR_SUPPORT_RING_P23 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.060	1.060	0.400	0.000	0.660	
◎	MM	U23 - CR_SUPPORT_RING_P34 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.421	0.421	0.400	0.000	0.021	
◎	MM	U24 - CR_SUPPORT_RING_P45 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.693	0.693	0.400	0.000	0.293	
◎	MM	U25 - CR_SUPPORT_RING_P56 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.433	1.433	0.400	0.000	1.033	
◎	MM	U26 - CR_SUPPORT_RING_P67 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.459	0.459	0.400	0.000	0.059	

◎	MM	U27 - CR_SUPPORT_RING_P78 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.489	0.489	0.400	0.000	0.089	
◎	MM	U28 - CR_SUPPORT_RING_P89 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.501	0.501	0.400	0.000	0.101	
◎	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	0.253	0.253	0.400	0.000	0.000	

◎	MM	U40 - CRC-VAC-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.380	0.380	0.400	0.000	0.000	
⊥	MM	V1 - PL-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.239	0.239	0.200	0	0.039	
⊥	MM	V2 - PL-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.214	0.214	0.200	0	0.014