pc-dmis	PART NAME : PN440004-n ILC 1p3GHZ RF CAVITY ASSEMBLY 000 TB9RI029 v5z IR		February 05, 2010	10:51
	REV NUMBER :	SER NUMBER :	STATS COUNT :	1

440004-n
FNAL 1.3GHZ TESLA
RF CAVITY
ASSEMBLY
@ 000 rotation
'Inspected by ' : Robert Riley
'Cavity Number' : TB9RI020
' ' : 1002050830

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	0.015	0.015	0.200	0.000	0.000	

AX	I	J	K
V	-0.002	-1.000	0.003

//	MM	PARL1 - PL-NEAR-END-FLANGE TO YMINUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.376	0.376	0.200	0	0.176	

∠	DEG	ANGL1 - PL-NEAR-END-FLANGE TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.817	-0.183	0.100	0.100	-0.083	

⌗	MM	LOC2 - CR-NEAR-END-FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.167	-0.167	0.200	0.200	0.000	
Z	0.000	0.331	0.331	0.200	0.200	0.131	
D	140.000	140.059	0.059	0.300	0.300	0.000	
RN	0.000	0.010	0.010	0.200	0.000	0.000	

⌗	MM	LOC3 - PL-FAR-END					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	1247.400	1245.943	-1.457	3.000	3.000	0.000	
FL	0.000	0.022	0.022	0.200	0.000	0.000	

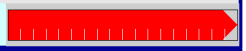
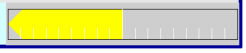
AX	I	J	K
V	0.002	1.000	0.003

//	MM	PARL2 - PL-FAR-END TO YPLUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.388	0.388	0.200	0	0.188	

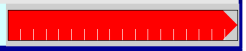
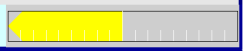
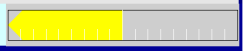
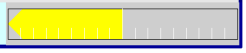
∠	DEG	ANGL2 - PL-FAR-END TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.820	-0.180	0.100	0.100	-0.080	

⌗	MM	LOC4 - CR-FAR-END					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.006	0.006	0.200	0.200	0.000	
Z	0.000	0.309	0.309	0.200	0.200	0.109	
D	140.000	140.070	0.070	0.300	0.300	0.000	
RN	0.000	0.008	0.008	0.200	0.000	0.000	

DATUM-1-PLANE

⌗	MM	LOC-DATUM-1-PLANE - PLC-DAT-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	92.840	93.082	0.242	0.200	0.200	0.042	
FL	0.000	0.043	0.043	0.200	0.000	0.000	
AX		I		J		K	
V		-0.003		-1.000		0.003	
//	MM	PARL5 - PLC-DAT-1 TO YMINUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.361	0.361	0.200	0	0.161	
∠	DEG	ANGL7 - PLC-DAT-1 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.793	-0.207	0.100	0.100	-0.107	

DATUM-2-PLANE

⌗	MM	LOC-DATUM-2-PLANE - PLC-DAT-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	1154.560	1152.673	-1.887	0.200	0.200	1.687	
FL	0.000	0.019	0.019	0.200	0.000	0.000	
AX		I		J		K	
V		-0.002		1.000		0.003	
//	MM	PARL6 - PLC-DAT-2 TO YPLUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.368	0.368	0.200	0	0.168	
∠	DEG	ANGL8 - PLC-DAT-2 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.782	-0.218	0.100	0.100	-0.118	
↔	MM	DIST3 - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1061.060	1059.591	-1.469	0.200	0.200	-1.269	
↔	MM	DIST4 - PLC-DAT-2 TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	93.500	93.269	-0.231	0.200	0.200	-0.031	

PICKUP ANTENNA FLANGE NW8

⌖	MM	LOC5 - PL NW8 ANTENNA FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-53.800	-53.933	-0.134	0.200	0.200	0.000
FL	0.000	0.002	0.002	0.200	0.000	0.000

AX	I	J	K
V	-1.000	0.005	0.005

//	MM	PARL3 - PL NW8 ANTENNA FLANGE TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.235	0.235	0.200	0	0.035

∠	DEG	ANGL3 - PL NW8 ANTENNA FLANGE TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.495	-0.505	0.100	0.100	-0.405

⌖	MM	LOC6 - CR_NW8_ANTENNA_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	60.600	60.503	-0.097	0.200	0.200	0.000
Z	0.000	0.998	0.998	0.200	0.200	0.798
D	33.800	33.811	0.011	0.150	0.000	0.000
RN	0.000	0.010	0.010	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	87.669	-0.331	0.200	0.200	0.131
FL	0.000	0.028	0.028	0.200	0.000	0.000

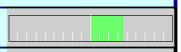
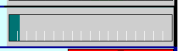
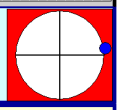
AX	I	J	K
V	1.000	-0.001	0.000

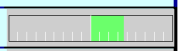
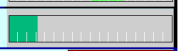
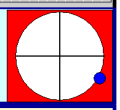
//	MM	PARL4 - PL NW 40 FLANGE TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.213	0.213	0.200	0	0.013

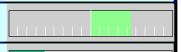
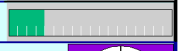
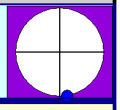
∠	DEG	ANGL4 - PL NW 40 FLANGE TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.823	-0.177	0.100	0.100	-0.077

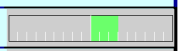
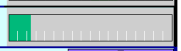
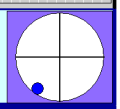
⌖	MM	LOC8 - CR_NW_40_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1186.800	1185.523	-1.277	0.200	0.200	1.077
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	76.000	75.981	-0.019	0.200	0.000	0.019
RN	0.000	0.022	0.022	0.200	0.000	0.000

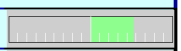
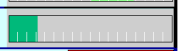
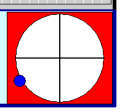
↔	MM	DIST1 - CR_NW_40_FLANGE TO PL-FAR-END (YAXIS)				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	60.600	60.419	-0.181	0.200	0.200	0.000

⌖	MM	TP NW40 MC BH1 - CR NW 40 FLANGE BH1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.706	-0.044					
PA	112.500	112.187	-0.313					
DF	6.700	6.781	0.081	0.200	0.200	0.000	0.000	
RN	0.000	0.014	0.014	0.200	0.000	0.000		
TP	RFS		0.357	0.300		0.057	0.000	

⌖	MM	TP NW40 MC BH2 - CR NW 40 FLANGE BH2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.733	-0.017					
PA	67.500	67.225	-0.275					
DF	6.700	6.781	0.081	0.200	0.200	0.000	0.000	
RN	0.000	0.036	0.036	0.200	0.000	0.000		
TP	RFS		0.307	0.300		0.007	0.000	

⌖	MM	TP NW40 MC BH3 - CR NW 40 FLANGE BH3						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.716	-0.034					
PA	22.500	22.236	-0.264					
DF	6.700	6.801	0.101	0.200	0.200	0.000	0.000	
RN	0.000	0.044	0.044	0.200	0.000	0.000		
TP	RFS		0.300	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	31.722	-0.028					
PA	-22.500	-22.727	-360.227					
DF	6.700	6.768	0.068	0.200	0.200	0.000	0.000	
RN	0.000	0.028	0.028	0.200	0.000	0.000		
TP	RFS		0.258	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	31.771	0.021					
PA	-67.500	-67.791	-360.291					
DF	6.700	6.806	0.106	0.200	0.200	0.000	0.000	
RN	0.000	0.036	0.036	0.200	0.000	0.000		
TP	RFS		0.325	0.300		0.025	0.000	

MM	TP NW40 MC BH6 - CR NW 40 FLANGE BH6						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.732	-0.018				
PA	-112.500	-112.576	-360.076				
DF	6.700	6.769	0.069	0.200	0.200	0.000	0.000
RN	0.000	0.036	0.036	0.200	0.000	0.000	
TP	RFS		0.092	0.300		0.000	0.000

MM	TP NW40 MC BH7 - CR NW 40 FLANGE BH7						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.685	-0.065				
PA	-157.500	-157.636	-360.136				
DF	6.700	6.757	0.057	0.200	0.200	0.000	0.000
RN	0.000	0.027	0.027	0.200	0.000	0.000	
TP	RFS		0.200	0.300		0.000	0.000

MM	TP NW40 MC BH8 - CR NW 40 FLANGE BH8						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.683	-0.067				
PA	157.500	157.375	-0.125				
DF	6.700	6.763	0.063	0.200	0.200	0.000	0.000
RN	0.000	0.020	0.020	0.200	0.000	0.000	
TP	RFS		0.192	0.300		0.000	0.000

HOM-2 FLANGE NW12

MM	FLAT4 - PL-NW12-FLANGE-HOM2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.006	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	-0.545	0.294	0.785

DEG	ANGL6 - PL-NW12-FLANGE-HOM2 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	35.000	55.358	20.358	0.500	0.500	19.858

MM	LOC9 - CR-NW12-FLANGE-HOM2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-72.012	-72.012	100.000	100.000	0.000
Y	0.000	1189.970	1189.970	2000.000	2000.000	0.000
Z	0.000	-8.526	-8.526	100.000	100.000	0.000
D	33.800	33.763	-0.037	0.150	0.000	0.037
RN	0.000	0.055	0.055	0.150	0.000	0.000

	MM	DIST FORMTEIL2 POINT - PT-FORMTEIL2 TO PL-NW12-FLANGE-HOM2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	28.420	28.460	0.040	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	28.458	0.038	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	107.162	92.162	0.500	0.500	91.662	

HOM 1 LOCATION

	MM	LOC-HOM1 - CY-HOM-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	68.485	68.485	100.000	100.000	0.000	
Y	60.600	60.371	-0.229	0.200	0.200	0.029	
Z	0.000	-40.594	-40.594	100.000	100.000	0.000	
D	44.000	43.868	-0.132	0.000	0.100	0.032	
RN	0.000	0.045	0.045	0.100	0.000	0.000	

AX	I	J	K
V	-0.864	0.004	0.504

	DEG	ANGL9 - CY-HOM-1 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	30.000	30.419	0.419	0.500	0.500	0.000	

	DEG	ANGL10 - CY-HOM-1 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	-90.000	-89.812	0.188	0.500	0.500	0.000	

	DEG	ANGL11 - CY-HOM-1 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	60.000	59.581	-0.419	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	60.632	0.032	0.200	0.200	0.000	
Z	0.000	-0.383	-0.383	0.200	0.200	0.183	

	MM	LOC_HOM1_FLANGE_A - PL_NW12_FLANGE_HOM1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.002	0.002	0.200	0.000	0.000	

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

AX	I	J	K
V	-0.492	-0.249	-0.834

⦟	DEG	ANGL17 - PL_NW12_FLANGE_HOM1 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	15.000	106.702	91.702	0.500	0.500	91.202	

⌗	MM	LOC_HOM1_FLANGE_D - CR_NW12_FLANGE_HOM1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	40.497	39.125	-1.371	100.000	100.000	0.000	
Y	92.086	58.059	-34.027	100.000	100.000	0.000	
Z	-56.755	-60.139	-3.384	100.000	100.000	0.000	
D	33.800	33.854	0.054	0.150	0.150	0.000	
RN	0.000	0.021	0.021	0.150	0.000	0.000	

HOM 2 LOCATION

⌗	MM	LOC-HOM2 - CY-HOM-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-64.770	-64.770	100.000	100.000	0.000	
Y	1186.800	1185.381	-1.419	3.000	3.000	0.000	
Z	0.000	-44.927	-44.927	100.000	100.000	0.000	
D	44.000	43.917	-0.083	0.000	0.100	0.000	
RN	0.000	0.095	0.095	0.100	0.000	0.000	

AX	I	J	K
V	-0.823	-0.001	-0.568

⟷	MM	DIST2 - CY-HOM-2 TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	60.600	60.562	-0.038	0.200	0.200	0.000	

⦟	DEG	ANGL12 - CY-HOM-2 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	34.433	-0.567	0.500	0.500	-0.067	

⦟	DEG	ANGL13 - CY-HOM-2 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	-90.000	-89.883	0.117	0.500	0.500	0.000	

⦟	DEG	ANGL14 - CY-HOM-2 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	55.000	55.567	0.567	0.500	0.500	0.067	

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	1185.541	-1.259	3.000	3.000	0.000	
Z	0.000	-0.522	-0.522	0.200	0.200	0.322	

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	94.931	94.931	2000.000	2000.000	0.000	
Z	0.000	0.000	0.000	0.200	0.200	0.000	
D	111.000	110.896	-0.103	0.050	0.050	0.053	
RN	0.000	0.014	0.014	0.050	0.000	0.000	

	MM	LOC-CC2 - CRC-VAC-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.083	0.083	0.200	0.200	0.000	
Y	158.307	123.753	-34.555	2000.000	2000.000	0.000	
Z	0.000	-0.069	-0.069	0.200	0.200	0.000	
D	211.000	210.388	-0.612	0.200	0.200	0.412	
RN	0.000	0.124	0.124	0.200	0.000	0.000	

	MM	LOC-CC3 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.077	0.076	0.200	0.200	0.000	
Y	0.000	156.319	156.319	2000.000	2000.000	0.000	
Z	0.000	-0.103	-0.104	0.200	0.200	0.000	
D	210.300	210.387	0.087	0.200	0.200	0.000	
RN	0.000	0.147	0.147	0.200	0.000	0.000	

	MM	LOC-CC4 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.119	0.119	0.200	0.200	0.000	
Y	0.000	167.880	167.880	2000.000	2000.000	0.000	
Z	0.000	-0.138	-0.138	0.200	0.200	0.000	
D	210.300	210.352	0.052	0.200	0.200	0.000	
RN	0.000	0.070	0.070	0.200	0.000	0.000	

	MM	LOC-CC5 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.192	0.192	0.200	0.200	0.000	
Y	0.000	270.854	270.854	2000.000	2000.000	0.000	
Z	0.000	-0.400	-0.400	0.200	0.200	0.200	
D	210.300	210.287	-0.013	0.200	0.200	0.000	
RN	0.000	0.047	0.047	0.200	0.000	0.000	

⌖	MM	LOC-CC6 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.240	0.240	0.200	0.200	0.040	
Y	0.000	282.746	282.746	2000.000	2000.000	0.000	
Z	0.000	-0.439	-0.439	0.200	0.200	0.239	
D	210.300	210.342	0.042	0.200	0.200	0.000	
RN	0.000	0.090	0.090	0.200	0.000	0.000	

⌖	MM	LOC-CC7 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.272	0.272	0.200	0.200	0.072	
Y	0.000	386.298	386.298	2000.000	2000.000	0.000	
Z	0.000	-0.630	-0.630	0.200	0.200	0.430	
D	210.300	210.363	0.063	0.200	0.200	0.000	
RN	0.000	0.215	0.215	0.200	0.000	0.015	

⌖	MM	LOC-CC8 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.276	0.276	0.200	0.200	0.076	
Y	0.000	398.366	398.366	2000.000	2000.000	0.000	
Z	0.000	-0.686	-0.686	0.200	0.200	0.486	
D	210.300	210.394	0.094	0.200	0.200	0.000	
RN	0.000	0.167	0.167	0.200	0.000	0.000	

⌖	MM	LOC-CC9 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.294	0.294	0.200	0.200	0.094	
Y	0.000	501.683	501.683	2000.000	2000.000	0.000	
Z	0.000	-0.889	-0.889	0.200	0.200	0.689	
D	210.300	210.363	0.063	0.200	0.200	0.000	
RN	0.000	0.173	0.173	0.200	0.000	0.000	

⌖	MM	LOC-CC10 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.261	0.261	0.200	0.200	0.061	
Y	0.000	513.104	513.104	2000.000	2000.000	0.000	
Z	0.000	-0.908	-0.908	0.200	0.200	0.708	
D	210.300	210.338	0.038	0.200	0.200	0.000	
RN	0.000	0.188	0.188	0.200	0.000	0.000	

⌖	MM	LOC-CC11 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.217	0.217	0.200	0.200	0.017	
Y	0.000	617.212	617.212	2000.000	2000.000	0.000	
Z	0.000	-0.974	-0.974	0.200	0.200	0.774	
D	210.300	210.214	-0.086	0.200	0.200	0.000	
RN	0.000	0.084	0.084	0.200	0.000	0.000	

⌖	MM	LOC-CC12 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.317	0.317	0.200	0.200	0.117	
Y	0.000	628.506	628.506	2000.000	2000.000	0.000	
Z	0.000	-0.907	-0.907	0.200	0.200	0.707	
D	210.300	210.257	-0.043	0.200	0.200	0.000	
RN	0.000	0.137	0.137	0.200	0.000	0.000	

⌖	MM	LOC-CC13 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.278	0.277	0.200	0.200	0.077	
Y	0.000	732.301	732.301	2000.000	2000.000	0.000	
Z	0.000	-0.889	-0.890	0.200	0.200	0.690	
D	210.300	210.289	-0.011	0.200	0.200	0.000	
RN	0.000	0.120	0.120	0.200	0.000	0.000	

⌖	MM	LOC-CC14 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.297	0.297	0.200	0.200	0.097	
Y	0.000	744.489	744.489	2000.000	2000.000	0.000	
Z	0.000	-0.981	-0.981	0.200	0.200	0.781	
D	210.300	210.284	-0.016	0.200	0.200	0.000	
RN	0.000	0.219	0.219	0.200	0.000	0.019	

⌖	MM	LOC-CC15 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.283	0.283	0.200	0.200	0.083	
Y	0.000	848.107	848.107	2000.000	2000.000	0.000	
Z	0.000	-0.822	-0.822	0.200	0.200	0.622	
D	210.300	210.401	0.101	0.200	0.200	0.000	
RN	0.000	0.106	0.106	0.200	0.000	0.000	

⌖	MM	LOC-CC16 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.320	0.320	0.200	0.200	0.120	
Y	0.000	860.065	860.065	2000.000	2000.000	0.000	
Z	0.000	-0.778	-0.778	0.200	0.200	0.578	
D	210.300	210.401	0.101	0.200	0.200	0.000	
RN	0.000	0.107	0.107	0.200	0.000	0.000	

⌖	MM	LOC-CC17 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.254	0.254	0.200	0.200	0.054	
Y	0.000	963.233	963.233	2000.000	2000.000	0.000	
Z	0.000	-0.508	-0.508	0.200	0.200	0.308	
D	210.300	210.417	0.117	0.200	0.200	0.000	
RN	0.000	0.267	0.267	0.200	0.000	0.067	

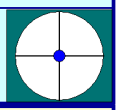
	MM	LOC-CC18 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.256	0.255	0.200	0.200	0.055	
Y	0.000	975.329	975.329	2000.000	2000.000	0.000	
Z	0.000	-0.477	-0.477	0.200	0.200	0.277	
D	210.300	210.334	0.034	0.200	0.200	0.000	
RN	0.000	0.135	0.135	0.200	0.000	0.000	

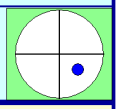
	MM	LOC-CC19 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.169	0.169	0.200	0.200	0.000	
Y	0.000	1078.941	1078.941	2000.000	2000.000	0.000	
Z	0.000	-0.168	-0.168	0.200	0.200	0.000	
D	210.300	210.334	0.034	0.200	0.200	0.000	
RN	0.000	0.150	0.150	0.200	0.000	0.000	

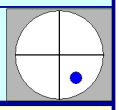
	MM	LOC-CC20 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.139	0.139	0.200	0.200	0.000	
Y	0.000	1091.242	1091.242	2000.000	2000.000	0.000	
Z	0.000	-0.164	-0.164	0.200	0.200	0.000	
D	210.300	210.326	0.026	0.200	0.200	0.000	
RN	0.000	0.189	0.189	0.200	0.000	0.000	

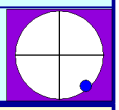
	MM	LOC-CC21 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.082	0.082	0.200	0.200	0.000	
Y	1156.557	1122.425	-34.132	2000.000	2000.000	0.000	
Z	0.000	-0.020	-0.020	0.200	0.200	0.000	
D	235.000	234.487	-0.513	0.200	0.200	0.313	
RN	0.000	0.075	0.075	0.200	0.000	0.000	

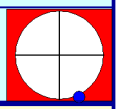
	MM	LOC-CC22 - CRC-DAT-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.000	0.000	0.200	0.200	0.000	
Y	0.000	1150.695	1150.695	2000.000	2000.000	0.000	
Z	0.000	0.000	0.000	0.200	0.200	0.000	
D	111.000	110.905	-0.095	0.050	0.050	0.045	
RN	0.000	0.019	0.019	0.050	0.000	0.000	

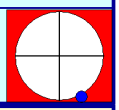
⌖	MM	LOC-TP-CC1 - CRC-DAT-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	0.000	0.000					
Z	0.000	0.000	0.000					
TP	RFS		0.000	0.400		0.000	0.000	

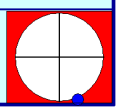
⌖	MM	LOC-TP-CC2 - CRC-VAC-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	0.083	0.083					
Z	0.000	-0.069	-0.069					
TP	RFS		0.215	0.400		0.000	0.000	

⌖	MM	LOC-TP-CC3 - CRC-CAV-1-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	0.077	0.076					
Z	0.000	-0.103	-0.104					
TP	RFS		0.257	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	0.119	0.119					
Z	0.000	-0.138	-0.138					
TP	RFS		0.364	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	0.192	0.192					
Z	0.000	-0.400	-0.400					
TP	RFS		0.887	0.400		0.487	0.000	

⌖	MM	LOC-TP-CC6 - CRC-CAV-2-2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	0.240	0.240					
Z	0.000	-0.439	-0.439					
TP	RFS		1.000	0.400		0.600	0.000	

⌖	MM	LOC-TP-CC7 - CRC-CAV-3-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	0.272	0.272					
Z	0.000	-0.630	-0.630					
TP	RFS		1.373	0.400		0.973	0.000	

⌖	MM	LOC-TP-CC8 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.276	0.276				
Z	0.000	-0.686	-0.686				
TP	RFS		1.479	0.400		1.079	0.000

⌖	MM	LOC-TP-CC9 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.294	0.294				
Z	0.000	-0.889	-0.889				
TP	RFS		1.872	0.400		1.472	0.000

⌖	MM	LOC-TP-CC10 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.261	0.261				
Z	0.000	-0.908	-0.908				
TP	RFS		1.889	0.400		1.489	0.000

⌖	MM	LOC-TP-CC11 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.217	0.217				
Z	0.000	-0.974	-0.974				
TP	RFS		1.995	0.400		1.595	0.000

⌖	MM	LOC-TP-CC12 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.317	0.317				
Z	0.000	-0.907	-0.907				
TP	RFS		1.921	0.400		1.521	0.000

⌖	MM	LOC-TP-CC13 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.278	0.277				
Z	0.000	-0.889	-0.890				
TP	RFS		1.864	0.400		1.464	0.000

⌖	MM	LOC-TP-CC14 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.297	0.297				
Z	0.000	-0.981	-0.981				
TP	RFS		2.050	0.400		1.650	0.000

⌖	MM	LOC-TP-CC15 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.283	0.283				
Z	0.000	-0.822	-0.822				
TP	RFS		1.739	0.400		1.339	0.000

⌖	MM	LOC-TP-CC16 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.320	0.320				
Z	0.000	-0.778	-0.778				
TP	RFS		1.683	0.400		1.283	0.000

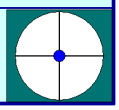
⌖	MM	LOC-TP-CC17 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.254	0.254				
Z	0.000	-0.508	-0.508				
TP	RFS		1.136	0.400		0.736	0.000

⌖	MM	LOC-TP-CC18 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.256	0.255				
Z	0.000	-0.477	-0.477				
TP	RFS		1.082	0.400		0.682	0.000

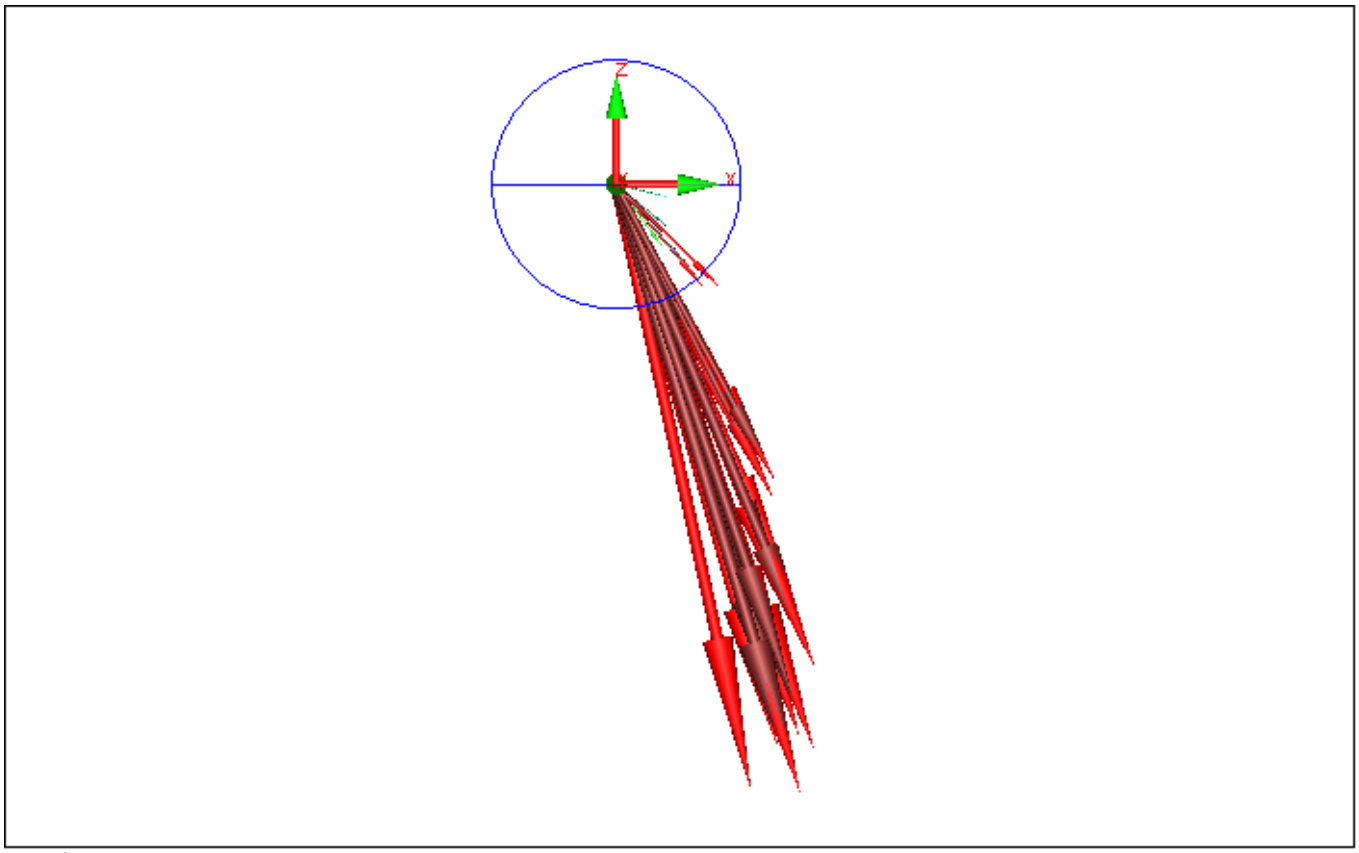
⌖	MM	LOC-TP-CC19 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.169	0.169				
Z	0.000	-0.168	-0.168				
TP	RFS		0.475	0.400		0.075	0.000

⌖	MM	LOC-TP-CC20 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.139	0.139				
Z	0.000	-0.164	-0.164				
TP	RFS		0.430	0.400		0.030	0.000

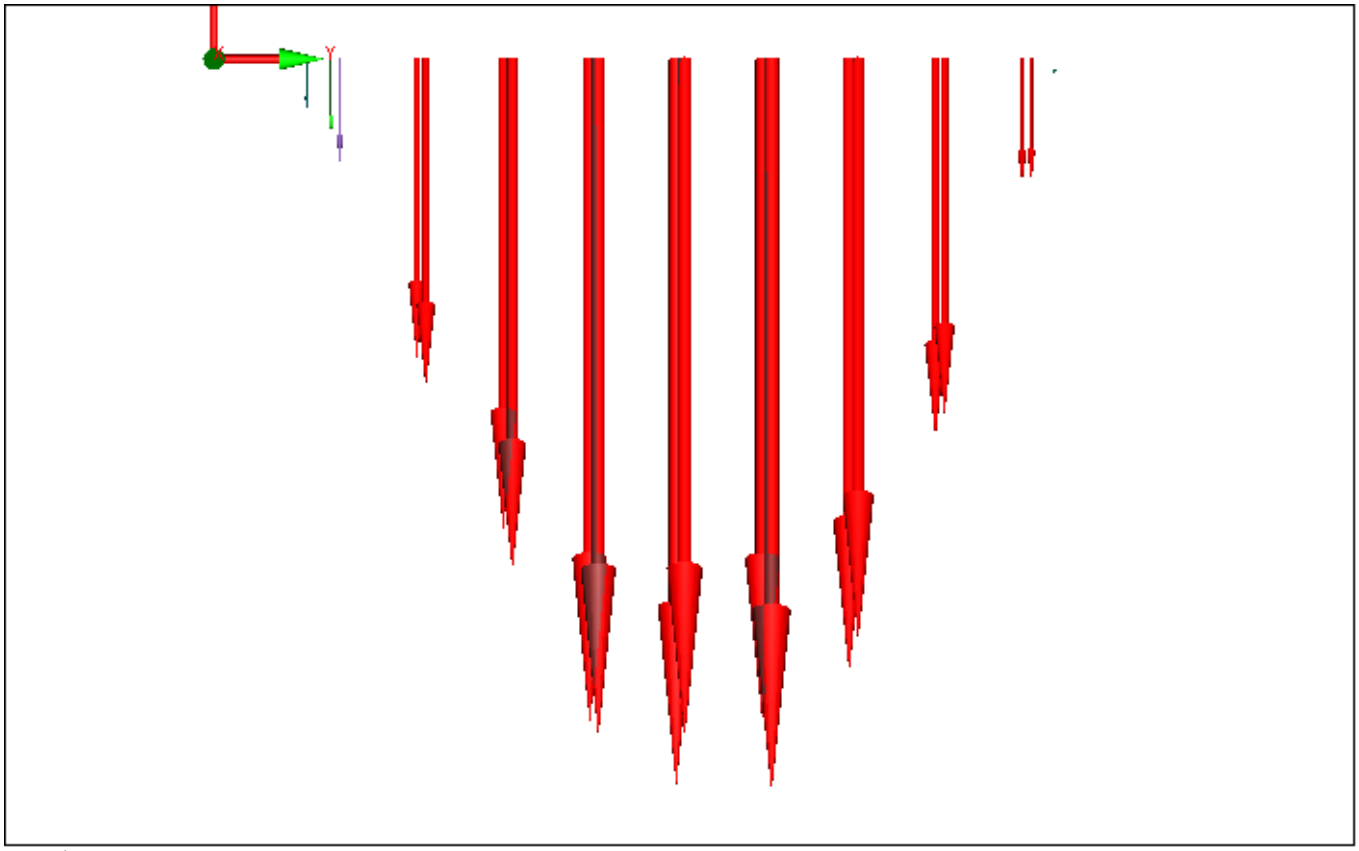
⌖	MM	LOC-TP-CC21 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.082	0.082				
Z	0.000	-0.020	-0.020				
TP	RFS		0.168	0.400		0.000	0.000

⌖	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	

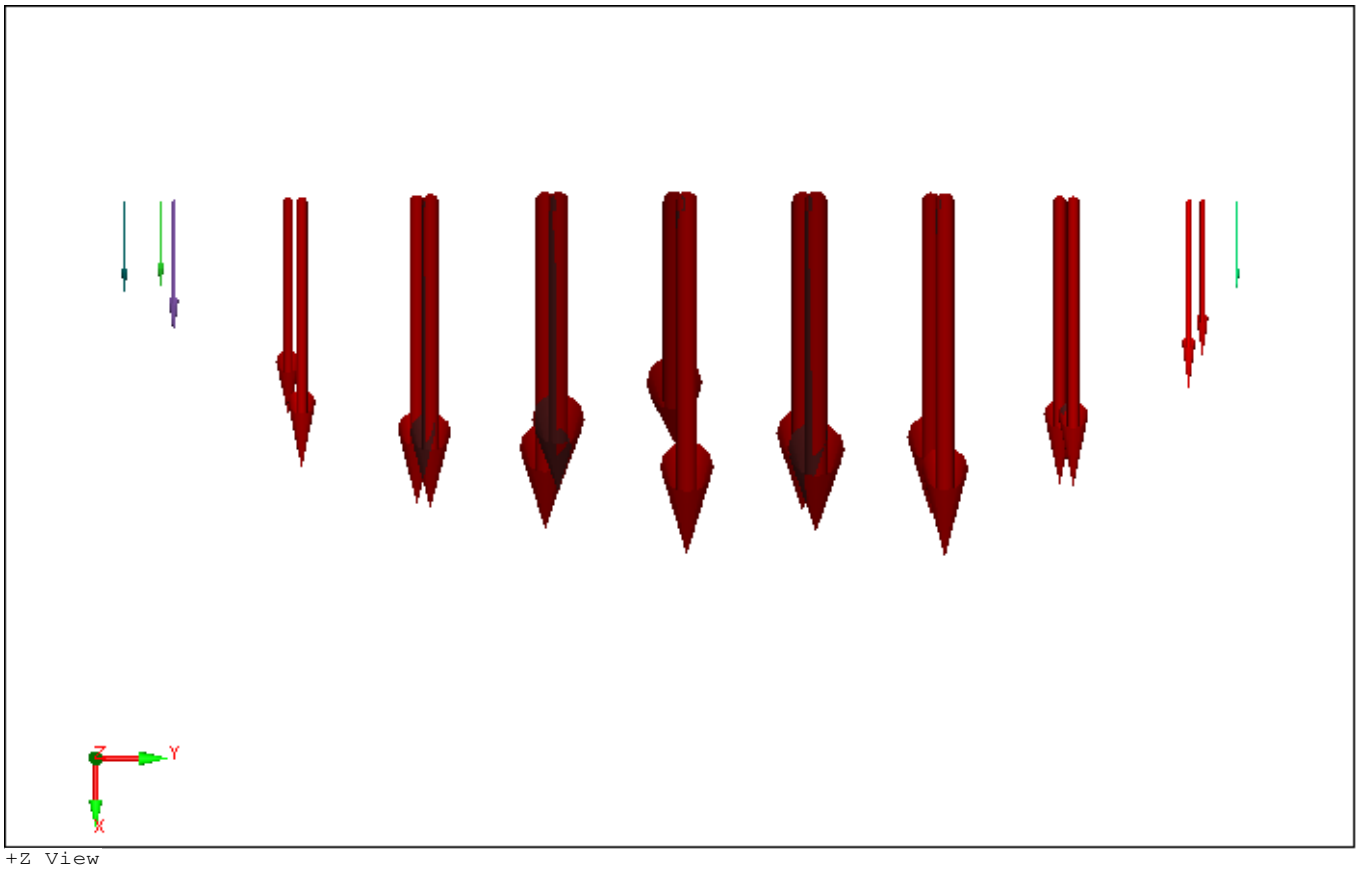
True Position plots from 3 views
x1000



-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	0.201	-0.094	0.200	0.200	0.000	
Y	658.560	623.113	-35.448	2000.000	2000.000	0.000	
Z	0.000	-0.498	-0.498	0.200	0.200	0.298	
ST	0.000	1.056	1.056	0.400	0.000	0.656	

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

⌗	MM	LOC-SUPPORT RING-T1 - CR-SUPPORT-RING-T12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.222	0.222	0.200	0.200	0.022	
Y	0.000	219.405	219.405	2000.000	2000.000	0.000	
Z	0.000	-0.266	-0.267	0.200	0.200	0.067	
R	56.500	56.018	-0.482	0.200	0.200	0.282	
RN	0.000	0.021	0.021	0.200	0.000	0.000	
⌗	MM	LOC-SUPPORT RING-T2 - CR-SUPPORT-RING-T23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.277	0.277	0.200	0.200	0.077	
Y	0.000	334.977	334.977	2000.000	2000.000	0.000	
Z	0.000	-0.569	-0.570	0.200	0.200	0.370	
R	56.500	56.071	-0.429	0.200	0.200	0.229	
RN	0.000	0.005	0.005	0.200	0.000	0.000	

⌖	MM	LOC-SUPPORT RING-T3 - CR-SUPPORT-RING-T34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.331	0.330	0.200	0.200	0.130	
Y	0.000	450.011	450.011	2000.000	2000.000	0.000	
Z	0.000	-0.331	-0.331	0.200	0.200	0.131	
R	56.500	55.881	-0.619	0.200	0.200	0.419	
RN	0.000	0.035	0.035	0.200	0.000	0.000	

⌖	MM	LOC-SUPPORT RING-T4 - CR-SUPPORT-RING-T45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.229	0.229	0.200	0.200	0.029	
Y	0.000	565.497	565.497	2000.000	2000.000	0.000	
Z	0.000	-0.938	-0.938	0.200	0.200	0.738	
R	56.500	56.025	-0.475	0.200	0.200	0.275	
RN	0.000	0.017	0.017	0.200	0.000	0.000	

⌖	MM	LOC-SUPPORT RING-T5 - CR-SUPPORT-RING-T56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.264	0.264	0.200	0.200	0.064	
Y	0.000	680.802	680.802	2000.000	2000.000	0.000	
Z	0.000	-0.862	-0.862	0.200	0.200	0.662	
R	56.500	56.069	-0.431	0.200	0.200	0.231	
RN	0.000	0.013	0.013	0.200	0.000	0.000	

⌖	MM	LOC-SUPPORT RING-T6 - CR-SUPPORT-RING-T67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.318	0.318	0.200	0.200	0.118	
Y	0.000	796.191	796.191	2000.000	2000.000	0.000	
Z	0.000	-0.886	-0.886	0.200	0.200	0.686	
R	56.500	56.033	-0.467	0.200	0.200	0.267	
RN	0.000	0.016	0.016	0.200	0.000	0.000	

⌖	MM	LOC-SUPPORT RING-T7 - CR-SUPPORT-RING-T78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.267	0.267	0.200	0.200	0.067	
Y	0.000	911.678	911.678	2000.000	2000.000	0.000	
Z	0.000	-0.649	-0.649	0.200	0.200	0.449	
R	56.500	55.989	-0.511	0.200	0.200	0.311	
RN	0.000	0.033	0.033	0.200	0.000	0.000	

⌖	MM	LOC-SUPPORT RING-T8 - CR-SUPPORT-RING-T89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.192	0.192	0.200	0.200	0.000	
Y	0.000	1027.482	1027.482	2000.000	2000.000	0.000	
Z	0.000	-0.326	-0.326	0.200	0.200	0.126	
R	56.500	56.121	-0.379	0.200	0.200	0.179	
RN	0.000	0.036	0.036	0.200	0.000	0.000	

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

	MM	LOC_SUPPORT_RING_B1 - CRC_SUPPORT_RING_B12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.191	0.191	0.200	0.200	0.000	
Y	0.000	219.408	219.408	2000.000	2000.000	0.000	
Z	0.000	-0.284	-0.284	0.200	0.200	0.084	
R	56.500	56.045	-0.455	0.200	0.200	0.255	
RN	0.000	0.036	0.036	0.200	0.000	0.000	

	MM	LOC_SUPPORT_RING_B2 - CRC_SUPPORT_RING_B23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.230	0.230	0.200	0.200	0.030	
Y	0.000	335.009	335.009	2000.000	2000.000	0.000	
Z	0.000	-0.492	-0.492	0.200	0.200	0.292	
R	56.500	56.088	-0.412	0.200	0.200	0.212	
RN	0.000	0.007	0.007	0.200	0.000	0.000	

	MM	LOC_SUPPORT_RING_B3 - CRC_SUPPORT_RING_B34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.342	0.342	0.200	0.200	0.142	
Y	0.000	449.910	449.910	2000.000	2000.000	0.000	
Z	0.000	-0.742	-0.742	0.200	0.200	0.542	
R	56.500	56.114	-0.386	0.200	0.200	0.186	
RN	0.000	0.025	0.025	0.200	0.000	0.000	

	MM	LOC_SUPPORT_RING_B4 - CRC_SUPPORT_RING_B45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.255	0.255	0.200	0.200	0.055	
Y	0.000	565.513	565.513	2000.000	2000.000	0.000	
Z	0.000	-1.079	-1.079	0.200	0.200	0.879	
R	56.500	56.004	-0.496	0.200	0.200	0.296	
RN	0.000	0.030	0.030	0.200	0.000	0.000	

	MM	LOC_SUPPORT_RING_B5 - CRC_SUPPORT_RING_B56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.226	0.226	0.200	0.200	0.026	
Y	0.000	679.814	679.814	2000.000	2000.000	0.000	
Z	0.000	-0.935	-0.935	0.200	0.200	0.735	
R	56.500	56.116	-0.384	0.200	0.200	0.184	
RN	0.000	0.004	0.004	0.200	0.000	0.000	

	MM	LOC_SUPPORT_RING_B6 - CRC_SUPPORT_RING_B67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.375	0.375	0.200	0.200	0.175	
Y	0.000	796.205	796.205	2000.000	2000.000	0.000	
Z	0.000	-0.898	-0.898	0.200	0.200	0.698	
R	56.500	55.964	-0.536	0.200	0.200	0.336	
RN	0.000	0.008	0.008	0.200	0.000	0.000	

	MM	LOC_SUPPORT_RING_B7 - CRC_SUPPORT_RING_B78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.308	0.307	0.200	0.200	0.107	
Y	0.000	911.717	911.717	2000.000	2000.000	0.000	
Z	0.000	-0.595	-0.595	0.200	0.200	0.395	
R	56.500	56.038	-0.462	0.200	0.200	0.262	
RN	0.000	0.043	0.043	0.200	0.000	0.000	

	MM	LOC_SUPPORT_RING_B8 - CRC_SUPPORT_RING_B89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.112	0.111	0.200	0.200	0.000	
Y	0.000	1027.529	1027.529	2000.000	2000.000	0.000	
Z	0.000	-0.363	-0.363	0.200	0.200	0.163	
R	56.500	56.054	-0.446	0.200	0.200	0.246	
RN	0.000	0.038	0.038	0.200	0.000	0.000	

CONCENTRICITY SUPPORT RING CIRCLES
Top & Bottom (Z)

	MM	CON_T12 - CR-SUPPORT-RING-T12 TO LINC_SUPPORT_RING_B12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.134	0.134	0.400	0.000	0.000	

	MM	CON_B12 - CRC_SUPPORT_RING_B12 TO LINC_SUPPORT_RING_B12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.078	0.078	0.400	0.000	0.000	

	MM	CON_T23 - CR-SUPPORT-RING-T23 TO LINC_SUPPORT_RING_B23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.080	0.080	0.400	0.000	0.000	

	MM	CON_B23 - CRC_SUPPORT_RING_B23 TO LINC_SUPPORT_RING_B23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.101	0.101	0.400	0.000	0.000	

	MM	CON_T34 - CR-SUPPORT-RING-T34 TO LINC_SUPPORT_RING_B34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.917	0.917	0.400	0.000	0.517	

	MM	CON_B34 - CRC_SUPPORT_RING_B34 TO LINC_SUPPORT_RING_B34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.146	0.146	0.400	0.000	0.000	

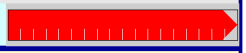
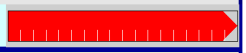
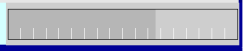
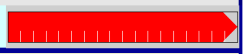
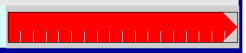
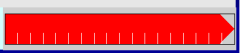
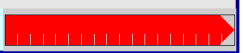
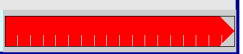
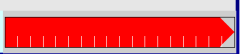
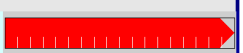
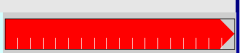
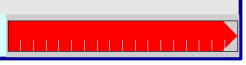
◎	MM	CON_T45 - CR-SUPPORT-RING-T45 TO LINC_SUPPORT_RING_B45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.019	0.019	0.400	0.000	0.000	
◎	MM	CON_B45 - CRC_SUPPORT_RING_B45 TO LINC_SUPPORT_RING_B45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.277	0.277	0.400	0.000	0.000	
◎	MM	CON_T56 - CR-SUPPORT-RING-T56 TO LINC_SUPPORT_RING_B56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.098	0.098	0.400	0.000	0.000	
◎	MM	CON_B56 - CRC_SUPPORT_RING_B56 TO LINC_SUPPORT_RING_B56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.160	0.160	0.400	0.000	0.000	
◎	MM	CON_T67 - CR-SUPPORT-RING-T67 TO LINC_SUPPORT_RING_B67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.066	0.066	0.400	0.000	0.000	
◎	MM	CON_B67 - CRC_SUPPORT_RING_B67 TO LINC_SUPPORT_RING_B67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.171	0.171	0.400	0.000	0.000	
◎	MM	CON_T78 - CR-SUPPORT-RING-T78 TO LINC_SUPPORT_RING_B78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.041	0.041	0.400	0.000	0.000	
◎	MM	CON_B78 - CRC_SUPPORT_RING_B78 TO LINC_SUPPORT_RING_B78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.106	0.106	0.400	0.000	0.000	
◎	MM	CON_T89 - CR-SUPPORT-RING-T89 TO LINC_SUPPORT_RING_B89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.040	0.040	0.400	0.000	0.000	
◎	MM	CON_B89 - CRC_SUPPORT_RING_B89 TO LINC_SUPPORT_RING_B89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.217	0.217	0.400	0.000	0.000	

⟷	MM	A - PL-NEAR-END-FLANGE TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1247.400	1245.943	-1.457	0.200	0.200	-1.257	
⟷	MM	B - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1061.060	1059.591	-1.469	0.200	0.200	-1.269	
⟷	MM	C - PLC-DAT-1 TO CR_NW8_ANTENNA_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	32.240	32.579	0.339	0.200	0.200	0.139	
⟷	MM	D - PLC-DAT-2 TO CR_NW_40_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	32.900	32.850	-0.050	0.200	0.200	0.000	
⟷	MM	E - LNC-LEVEL TO PL NW8 ANTENNA FLANGE (XAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	53.800	53.933	0.133	0.200	0.200	0.000	
⟷	MM	F - LNC-LEVEL TO PL NW 40 FLANGE (XAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	88.000	87.669	-0.331	0.200	0.200	-0.131	
⌗	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	28.458	0.038	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	60.371	-0.229	0.200	0.200	-0.029	
⟷	MM	I2 - PL-NEAR-END-FLANGE TO CY-HOM-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1185.381	-1.419	0.200	0.200	-1.219	
⟷	MM	I3 - PL-NEAR-END-FLANGE TO CR_NW_40_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1185.523	-1.277	0.200	0.200	-1.077	
∠	DEG	K - CY-HOM-1 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	30.000	30.419	0.419	0.500	0.500	0.000	
∠	DEG	L - CY-HOM-2 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	34.433	-0.567	0.500	0.500	-0.067	

∠	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	140.059	0.059	0.300	0.300	0.000	
⌖	MM	O2 - CR-FAR-END					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	140.000	140.070	0.070	0.300	0.300	0.000	
⌖	MM	P1 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.387	0.086	0.050	0.050	0.036	
⌖	MM	P2 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.352	0.052	0.050	0.050	0.002	
⌖	MM	P3 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.287	-0.014	0.050	0.050	0.000	
⌖	MM	P4 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.342	0.042	0.050	0.050	0.000	
⌖	MM	P5 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.363	0.062	0.050	0.050	0.012	
⌖	MM	P6 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.394	0.094	0.050	0.050	0.044	
⌖	MM	P7 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.363	0.063	0.050	0.050	0.013	
⌖	MM	P8 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.338	0.038	0.050	0.050	0.000	
⌖	MM	P9 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.214	-0.086	0.050	0.050	0.036	
⌖	MM	P10 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.257	-0.044	0.050	0.050	0.000	

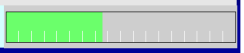
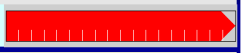
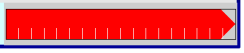
⌖	MM	P11 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.289	-0.012	0.050	0.050	0.000	
⌖	MM	P12 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.284	-0.017	0.050	0.050	0.000	
⌖	MM	P13 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.401	0.100	0.050	0.050	0.050	
⌖	MM	P14 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.401	0.101	0.050	0.050	0.051	
⌖	MM	P15 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.417	0.117	0.050	0.050	0.067	
⌖	MM	P16 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.334	0.033	0.050	0.050	0.000	
⌖	MM	P17 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.334	0.034	0.050	0.050	0.000	
⌖	MM	P18 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.326	0.025	0.050	0.050	0.000	
⌖	MM	Q1 - CR-SUPPORT-RING-T12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.018	-0.482	0.080	0.080	0.402	
⌖	MM	Q2 - CR-SUPPORT-RING-T23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.071	-0.429	0.080	0.080	0.349	
⌖	MM	Q3 - CR-SUPPORT-RING-T34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	55.881	-0.619	0.080	0.080	0.539	
⌖	MM	Q4 - CR-SUPPORT-RING-T45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.025	-0.475	0.080	0.080	0.395	
⌖	MM	Q5 - CR-SUPPORT-RING-T56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.069	-0.431	0.080	0.080	0.351	

⌖	MM	Q6 - CR-SUPPORT-RING-T67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.033	-0.467	0.080	0.080	0.387	
⌖	MM	Q7 - CR-SUPPORT-RING-T78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	55.989	-0.511	0.080	0.080	0.431	
⌖	MM	Q8 - CR-SUPPORT-RING-T89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.121	-0.379	0.080	0.080	0.299	
⌖	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	210.388	19.187	0.200	0.200	18.987	
⌖	MM	R2 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	200.000	234.487	34.487	0.200	0.200	34.287	

◎	MM	U1 - CR-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.742	0.742	0.400	0.000	0.342	
◎	MM	U2 - CR-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.618	0.618	0.400	0.000	0.218	
◎	MM	U3 - CRC-CAV-1-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.257	0.257	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	0.364	0.364	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	0.887	0.887	0.400	0.000	0.487	
◎	MM	U6 - CRC-CAV-2-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.000	1.000	0.400	0.000	0.600	
◎	MM	U7 - CRC-CAV-3-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.373	1.373	0.400	0.000	0.973	
◎	MM	U8 - CRC-CAV-3-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.479	1.479	0.400	0.000	1.079	
◎	MM	U9 - CRC-CAV-4-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.872	1.872	0.400	0.000	1.472	
◎	MM	U10 - CRC-CAV-4-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.889	1.889	0.400	0.000	1.489	
◎	MM	U11 - CRC-CAV-5-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.995	1.995	0.400	0.000	1.595	
◎	MM	U12 - CRC-CAV-5-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.921	1.921	0.400	0.000	1.521	
◎	MM	U13 - CRC-CAV-6-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.863	1.863	0.400	0.000	1.463	

◎	MM	U14 - CRC-CAV-6-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.050	2.050	0.400	0.000	1.650	
◎	MM	U15 - CRC-CAV-7-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.739	1.739	0.400	0.000	1.339	
◎	MM	U16 - CRC-CAV-7-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.683	1.683	0.400	0.000	1.283	
◎	MM	U17 - CRC-CAV-8-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.136	1.136	0.400	0.000	0.736	
◎	MM	U18 - CRC-CAV-8-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.082	1.082	0.400	0.000	0.682	
◎	MM	U19 - CRC-CAV-9-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.475	0.475	0.400	0.000	0.075	
◎	MM	U20 - CRC-CAV-9-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.430	0.430	0.400	0.000	0.030	
◎	MM	U21 - CR-SUPPORT-RING-T12 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.694	0.694	0.400	0.000	0.294	
◎	MM	U22 - CR-SUPPORT-RING-T23 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.267	1.267	0.400	0.000	0.867	
◎	MM	U23 - CR-SUPPORT-RING-T34 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.936	0.936	0.400	0.000	0.536	
◎	MM	U24 - CR-SUPPORT-RING-T45 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.932	1.932	0.400	0.000	1.532	
◎	MM	U25 - CR-SUPPORT-RING-T56 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.803	1.803	0.400	0.000	1.403	
◎	MM	U26 - CR-SUPPORT-RING-T67 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.882	1.882	0.400	0.000	1.482	

◎	MM	U27 - CR-SUPPORT-RING-T78 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.403	1.403	0.400	0.000	1.003	
◎	MM	U28 - CR-SUPPORT-RING-T89 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.758	0.758	0.400	0.000	0.358	
◎	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	0.215	0.215	0.400	0.000	0.000	

◎	MM	U40 - CRC-VAC-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.168	0.168	0.400	0.000	0.000	
⊥	MM	V1 - PL-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.376	0.376	0.200	0	0.176	
⊥	MM	V2 - PL-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.388	0.388	0.200	0	0.188