pc-dmis	PART NAME : PN440004-n ILC 1p3GHZ RF CAVITY ASSEMBLY 000 TB9RI027 v5z IR		March 11, 2010	15:17
	REV NUMBER :	SER NUMBER :	STATS COUNT :	1

440004-n
FNAL 1.3GHZ TESLA
RF CAVITY
ASSEMBLY
@ 000 rotation
'Inspected by ' : Robert Riley
'Cavity Number' : TB9RI027
' ' : 1003111144

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	0.035	0.035	0.200	0.000	0.000

AX	I	J	K
V	0.143	-0.957	-0.254

//	MM	PARL1 - PL-NEAR-END-FLANGE TO YMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.350	0.350	0.200	0	0.150

∠	DEG	ANGL1 - PL-NEAR-END-FLANGE TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	90.168	0.168	0.100	0.100	0.068

⌖	MM	LOC2 - CR-NEAR-END-FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.037	-0.037	0.200	0.200	0.000
Z	0.000	0.263	0.263	0.200	0.200	0.063
D	140.000	140.052	0.052	0.300	0.300	0.000
RN	0.000	0.023	0.023	0.200	0.000	0.000

⌖	MM	LOC3 - PL-FAR-END				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1247.400	1246.496	-0.904	3.000	3.000	0.000
FL	0.000	0.037	0.037	0.200	0.000	0.000

AX	I	J	K
V	-0.142	0.955	0.261

//	MM	PARL2 - PL-FAR-END TO YPLUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.744	0.744	0.200	0	0.544

∠	DEG	ANGL2 - PL-FAR-END TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	90.344	0.344	0.100	0.100	0.244

⌖	MM	LOC4 - CR-FAR-END				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.094	0.093	0.200	0.200	0.000
Z	0.000	0.257	0.257	0.200	0.200	0.057
D	140.000	140.060	0.060	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	93.178	0.338	0.200	0.200	0.138	
FL	0.000	0.052	0.052	0.200	0.000	0.000	
AX		I		J		K	
V		0.144		-0.957		-0.254	
//	MM	PARL5 - PLC-DAT-1 TO YMINUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.248	0.248	0.200	0	0.048	
∠	DEG	ANGL7 - PLC-DAT-1 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.870	-0.130	0.100	0.100	-0.030	

DATUM-2-PLANE

⌖	MM	LOC-DATUM-2-PLANE - PLC-DAT-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	1154.560	1152.823	-1.737	0.200	0.200	1.537	
FL	0.000	0.044	0.044	0.200	0.000	0.000	
AX		I		J		K	
V		-0.148		0.955		0.258	
//	MM	PARL6 - PLC-DAT-2 TO YPLUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.435	0.435	0.200	0	0.235	
∠	DEG	ANGL8 - PLC-DAT-2 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.771	-0.229	0.100	0.100	-0.129	
↔	MM	DIST3 - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1061.060	1059.644	-1.416	0.200	0.200	-1.216	
↔	MM	DIST4 - PLC-DAT-2 TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	93.500	93.674	0.174	0.200	0.200	0.000	

PICKUP ANTENNA FLANGE NW8

⌖	MM	LOC5 - PL NW8 ANTENNA FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-53.800	-53.800	0.000	0.200	0.200	0.000
FL	0.000	0.029	0.029	0.200	0.000	0.000

AX	I	J	K
V	-0.875	-0.004	-0.484

//	MM	PARL3 - PL NW8 ANTENNA FLANGE TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.314	0.314	0.200	0	0.114

∡	DEG	ANGL3 - PL NW8 ANTENNA FLANGE TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.372	-0.628	0.100	0.100	-0.528

⌖	MM	LOC6 - CR_NW8_ANTENNA_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	60.600	60.399	-0.201	0.200	0.200	0.001
Z	0.000	0.815	0.815	0.200	0.200	0.615
D	33.800	33.752	-0.048	0.150	0.000	0.048
RN	0.000	0.028	0.028	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	87.773	-0.227	0.200	0.200	0.027
FL	0.000	0.031	0.031	0.200	0.000	0.000

AX	I	J	K
V	0.874	0.002	0.486

//	MM	PARL4 - PL NW 40 FLANGE TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.585	0.585	0.200	0	0.385

∡	DEG	ANGL4 - PL NW 40 FLANGE TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.523	-0.477	0.100	0.100	-0.377

⌖	MM	LOC8 - CR_NW_40_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1186.800	1185.836	-0.964	0.200	0.200	0.764
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	76.000	75.998	-0.002	0.200	0.000	0.002
RN	0.000	0.012	0.012	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	60.660	0.060	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	31.682	-0.068				
PA	112.500	112.542	0.042				
DF	6.700	6.774	0.074	0.200	0.200	0.000	0.000
RN	0.000	0.025	0.025	0.200	0.000	0.000	
TP	RFS		0.144	0.300		0.000	0.000

⌖	MM	TP NW40 MC BH2 - CR NW 40 FLANGE BH2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.609	-0.141				
PA	67.500	67.462	-0.038				
DF	6.700	6.792	0.092	0.200	0.200	0.000	0.000
RN	0.000	0.035	0.035	0.200	0.000	0.000	
TP	RFS		0.285	0.300		0.000	0.000

⌖	MM	TP NW40 MC BH3 - CR NW 40 FLANGE BH3					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.686	-0.064				
PA	22.500	22.423	-0.077				
DF	6.700	6.781	0.081	0.200	0.200	0.000	0.000
RN	0.000	0.028	0.028	0.200	0.000	0.000	
TP	RFS		0.154	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	31.772	0.022				
PA	-22.500	-22.550	-0.050				
DF	6.700	6.779	0.079	0.200	0.200	0.000	0.000
RN	0.000	0.052	0.052	0.200	0.000	0.000	
TP	RFS		0.071	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	31.657	-0.093				
PA	-67.500	-67.459	0.041				
DF	6.700	6.788	0.088	0.200	0.200	0.000	0.000
RN	0.000	0.049	0.049	0.200	0.000	0.000	
TP	RFS		0.192	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	31.632	-0.118				
PA	-112.500	-112.364	0.136				
DF	6.700	6.835	0.135	0.200	0.200	0.000	0.000
RN	0.000	0.051	0.051	0.200	0.000	0.000	
TP	RFS		0.280	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	31.674	-0.076				
PA	-157.500	-157.446	0.054				
DF	6.700	6.773	0.073	0.200	0.200	0.000	0.000
RN	0.000	0.024	0.024	0.200	0.000	0.000	
TP	RFS		0.164	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	31.709	-0.041				
PA	157.500	157.572	0.072				
DF	6.700	6.762	0.062	0.200	0.200	0.000	0.000
RN	0.000	0.054	0.054	0.200	0.000	0.000	
TP	RFS		0.114	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	0.004	0.004	0.200	0.000	0.000

MM	VECTOR1 - PL-NW12-FLANGE-HOM2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
AX		I		J		K
V		-0.892		0.006		0.452

DEG	ANGL6 - PL-NW12-FLANGE-HOM2 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	35.000	55.165	20.165	0.500	0.500	19.665

MM	LOC9 - CR-NW12-FLANGE-HOM2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-72.653	-72.653	100.000	100.000	0.000
Y	0.000	1189.173	1189.173	2000.000	2000.000	0.000
Z	0.000	-8.651	-8.651	100.000	100.000	0.000
D	33.800	33.720	-0.080	0.150	0.000	0.080
RN	0.000	0.086	0.086	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	28.447	0.027	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	28.445	0.025	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	104.587	89.587	0.500	0.500	89.087

HOM 1 LOCATION

⊕	MM	LOC-HOM1 - CY-HOM-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	68.285	68.285	100.000	100.000	0.000
Y	60.600	60.617	0.017	0.200	0.200	0.000
Z	0.000	-40.956	-40.956	100.000	100.000	0.000
D	44.000	43.900	-0.100	0.000	0.100	0.000
RN	0.000	0.053	0.053	0.100	0.000	0.000

AX	I	J	K
V	-0.988	-0.153	-0.001

∠	DEG	ANGL9 - CY-HOM-1 TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	30.000	30.660	0.660	0.500	0.500	0.160

∠	DEG	ANGL10 - CY-HOM-1 TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	-90.000	-90.196	-0.196	0.500	0.500	0.000

∠	DEG	ANGL11 - CY-HOM-1 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	60.000	59.340	-0.660	0.500	0.500	-0.160

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	60.346	-0.254	0.200	0.200	0.054
Z	0.000	-0.475	-0.475	0.200	0.200	0.275

▱	MM	LOC_HOM1_FLANGE_A - PL_NW12_FLANGE_HOM1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.007	0.007	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	0.000	0.000	-1.000

⊿	DEG	ANGL17 - PL_NW12_FLANGE_HOM1 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	15.000	107.089	92.089	0.500	0.500	91.589

⊞	MM	LOC_HOM1_FLANGE_D - CR_NW12_FLANGE_HOM1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	40.497	39.406	-1.090	100.000	100.000	0.000
Y	92.086	58.473	-33.613	100.000	100.000	0.000
Z	-56.755	-59.325	-2.570	100.000	100.000	0.000
D	33.800	33.511	-0.289	0.150	0.150	0.139
RN	0.000	0.020	0.020	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	-64.338	-64.338	100.000	100.000	0.000
Y	1186.800	1185.899	-0.901	3.000	3.000	0.000
Z	0.000	-45.523	-45.523	100.000	100.000	0.000
D	44.000	43.906	-0.094	0.000	0.100	0.000
RN	0.000	0.028	0.028	0.100	0.000	0.000

AX	I	J	K
V	-0.442	0.166	-0.882

↔	MM	DIST2 - CY-HOM-2 TO PL-FAR-END (YAXIS)				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	60.600	60.598	-0.002	0.200	0.200	0.000

⊿	DEG	ANGL12 - CY-HOM-2 TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	35.000	34.991	-0.009	0.500	0.500	0.000

⊿	DEG	ANGL13 - CY-HOM-2 TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	-90.000	-90.153	-0.153	0.500	0.500	0.000

⊿	DEG	ANGL14 - CY-HOM-2 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	55.000	55.009	0.009	0.500	0.500	0.000

INTERSECTION OF HOM2 & YZ PLANE

⊞	MM	LOC-HOM2 X PLANE - PTC-HOM2 X YZ PLANE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.000	0.000	0.200	0.200	0.000
Y	1186.800	1186.109	-0.691	3.000	3.000	0.000
Z	0.000	-0.488	-0.488	0.200	0.200	0.288

⌖	MM	LOC-CC1 - CRC-DAT-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.000	0.000	0.200	0.200	0.000
Y	0.000	95.228	95.228	2000.000	2000.000	0.000
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	111.000	110.878	-0.121	0.050	0.050	0.071
RN	0.000	0.027	0.027	0.050	0.000	0.000

⌖	MM	LOC-CC2 - CRC-VAC-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.024	-0.024	0.200	0.200	0.000
Y	158.307	124.002	-34.305	2000.000	2000.000	0.000
Z	0.000	-0.061	-0.062	0.200	0.200	0.000
D	211.000	210.272	-0.728	0.200	0.200	0.528
RN	0.000	0.087	0.087	0.200	0.000	0.000

⌖	MM	LOC-CC3 - CRC-CAV-1-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.089	-0.089	0.200	0.200	0.000
Y	0.000	156.779	156.779	2000.000	2000.000	0.000
Z	0.000	-0.141	-0.142	0.200	0.200	0.000
D	210.300	210.393	0.092	0.200	0.200	0.000
RN	0.000	0.115	0.115	0.200	0.000	0.000

⌖	MM	LOC-CC4 - CRC-CAV-1-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.040	-0.040	0.200	0.200	0.000
Y	0.000	168.213	168.213	2000.000	2000.000	0.000
Z	0.000	-0.100	-0.101	0.200	0.200	0.000
D	210.300	210.349	0.049	0.200	0.200	0.000
RN	0.000	0.062	0.062	0.200	0.000	0.000

⌖	MM	LOC-CC5 - CRC-CAV-2-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.036	-0.036	0.200	0.200	0.000
Y	0.000	271.396	271.396	2000.000	2000.000	0.000
Z	0.000	-0.296	-0.296	0.200	0.200	0.096
D	210.300	210.360	0.060	0.200	0.200	0.000
RN	0.000	0.260	0.260	0.200	0.000	0.060

⌖	MM	LOC-CC6 - CRC-CAV-2-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.036	-0.037	0.200	0.200	0.000
Y	0.000	283.315	283.315	2000.000	2000.000	0.000
Z	0.000	-0.293	-0.293	0.200	0.200	0.093
D	210.300	210.434	0.134	0.200	0.200	0.000
RN	0.000	0.190	0.190	0.200	0.000	0.000

⌖	MM	LOC-CC7 - CRC-CAV-3-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.004	0.004	0.200	0.200	0.000
Y	0.000	387.105	387.105	2000.000	2000.000	0.000
Z	0.000	-0.543	-0.543	0.200	0.200	0.343
D	210.300	210.431	0.131	0.200	0.200	0.000
RN	0.000	0.168	0.168	0.200	0.000	0.000

⌖	MM	LOC-CC8 - CRC-CAV-3-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.104	0.104	0.200	0.200	0.000
Y	0.000	399.074	399.074	2000.000	2000.000	0.000
Z	0.000	-0.527	-0.527	0.200	0.200	0.327
D	210.300	210.406	0.106	0.200	0.200	0.000
RN	0.000	0.162	0.162	0.200	0.000	0.000

⌖	MM	LOC-CC9 - CRC-CAV-4-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.126	0.126	0.200	0.200	0.000
Y	0.000	502.599	502.599	2000.000	2000.000	0.000
Z	0.000	-0.665	-0.665	0.200	0.200	0.465
D	210.300	210.416	0.116	0.200	0.200	0.000
RN	0.000	0.177	0.177	0.200	0.000	0.000

⌖	MM	LOC-CC10 - CRC-CAV-4-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.162	0.162	0.200	0.200	0.000
Y	0.000	514.270	514.270	2000.000	2000.000	0.000
Z	0.000	-0.674	-0.674	0.200	0.200	0.474
D	210.300	210.331	0.031	0.200	0.200	0.000
RN	0.000	0.093	0.093	0.200	0.000	0.000

⌖	MM	LOC-CC11 - CRC-CAV-5-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.195	0.195	0.200	0.200	0.000
Y	0.000	616.996	616.996	2000.000	2000.000	0.000
Z	0.000	-0.714	-0.714	0.200	0.200	0.514
D	210.300	210.308	0.008	0.200	0.200	0.000
RN	0.000	0.139	0.139	0.200	0.000	0.000

⊕	MM	LOC-CC12 - CRC-CAV-5-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.201	0.201	0.200	0.200	0.001
Y	0.000	629.407	629.407	2000.000	2000.000	0.000
Z	0.000	-0.728	-0.728	0.200	0.200	0.528
D	210.300	210.318	0.018	0.200	0.200	0.000
RN	0.000	0.149	0.149	0.200	0.000	0.000

⊕	MM	LOC-CC13 - CRC-CAV-6-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.134	0.134	0.200	0.200	0.000
Y	0.000	733.248	733.248	2000.000	2000.000	0.000
Z	0.000	-0.681	-0.681	0.200	0.200	0.481
D	210.300	210.349	0.049	0.200	0.200	0.000
RN	0.000	0.125	0.125	0.200	0.000	0.000

⊕	MM	LOC-CC14 - CRC-CAV-6-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.118	0.118	0.200	0.200	0.000
Y	0.000	745.121	745.121	2000.000	2000.000	0.000
Z	0.000	-0.711	-0.711	0.200	0.200	0.511
D	210.300	210.406	0.106	0.200	0.200	0.000
RN	0.000	0.104	0.104	0.200	0.000	0.000

⊕	MM	LOC-CC15 - CRC-CAV-7-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.073	0.073	0.200	0.200	0.000
Y	0.000	849.046	849.046	2000.000	2000.000	0.000
Z	0.000	-0.686	-0.686	0.200	0.200	0.486
D	210.300	210.364	0.064	0.200	0.200	0.000
RN	0.000	0.179	0.179	0.200	0.000	0.000

⊕	MM	LOC-CC16 - CRC-CAV-7-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.069	0.069	0.200	0.200	0.000
Y	0.000	860.253	860.253	2000.000	2000.000	0.000
Z	0.000	-0.667	-0.667	0.200	0.200	0.467
D	210.300	210.376	0.075	0.200	0.200	0.000
RN	0.000	0.127	0.127	0.200	0.000	0.000

⊕	MM	LOC-CC17 - CRC-CAV-8-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.134	0.134	0.200	0.200	0.000
Y	0.000	963.988	963.988	2000.000	2000.000	0.000
Z	0.000	-0.530	-0.530	0.200	0.200	0.330
D	210.300	210.382	0.082	0.200	0.200	0.000
RN	0.000	0.252	0.252	0.200	0.000	0.052

⌖	MM	LOC-CC18 - CRC-CAV-8-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.058	0.058	0.200	0.200	0.000
Y	0.000	975.564	975.564	2000.000	2000.000	0.000
Z	0.000	-0.478	-0.478	0.200	0.200	0.278
D	210.300	210.317	0.017	0.200	0.200	0.000
RN	0.000	0.151	0.151	0.200	0.000	0.000

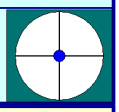
⌖	MM	LOC-CC19 - CRC-CAV-9-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.043	0.043	0.200	0.200	0.000
Y	0.000	1078.594	1078.594	2000.000	2000.000	0.000
Z	0.000	-0.310	-0.310	0.200	0.200	0.110
D	210.300	210.328	0.028	0.200	0.200	0.000
RN	0.000	0.116	0.116	0.200	0.000	0.000

⌖	MM	LOC-CC20 - CRC-CAV-9-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.056	0.056	0.200	0.200	0.000
Y	0.000	1090.793	1090.793	2000.000	2000.000	0.000
Z	0.000	-0.221	-0.221	0.200	0.200	0.021
D	210.300	210.412	0.112	0.200	0.200	0.000
RN	0.000	0.285	0.285	0.200	0.000	0.085

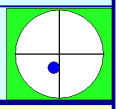
⌖	MM	LOC-CC21 - CRC-VAC-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.029	0.029	0.200	0.200	0.000
Y	1156.557	1123.051	-33.506	2000.000	2000.000	0.000
Z	0.000	-0.052	-0.052	0.200	0.200	0.000
D	235.000	234.507	-0.493	0.200	0.200	0.293
RN	0.000	0.116	0.116	0.200	0.000	0.000

⌖	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	1150.856	1150.856	2000.000	2000.000	0.000
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	111.000	110.954	-0.046	0.050	0.050	0.000
RN	0.000	0.015	0.015	0.050	0.000	0.000

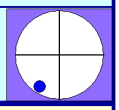
⌖	MM	LOC-TP-CC1 - CRC-DAT-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.000	0.000				
Z	0.000	0.000	0.000				
TP	RFS		0.000	0.400		0.000	0.000



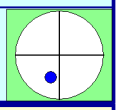
⌖	MM	LOC-TP-CC2 - CRC-VAC-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.024	-0.024				
Z	0.000	-0.061	-0.062				
TP	RFS		0.132	0.400		0.000	0.000



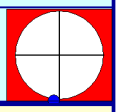
⌖	MM	LOC-TP-CC3 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.089	-0.089				
Z	0.000	-0.141	-0.142				
TP	RFS		0.335	0.400		0.000	0.000



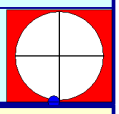
⌖	MM	LOC-TP-CC4 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.040	-0.040				
Z	0.000	-0.100	-0.101				
TP	RFS		0.216	0.400		0.000	0.000



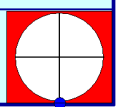
⌖	MM	LOC-TP-CC5 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.036	-0.036				
Z	0.000	-0.296	-0.296				
TP	RFS		0.596	0.400		0.196	0.000



⌖	MM	LOC-TP-CC6 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.036	-0.037				
Z	0.000	-0.293	-0.293				
TP	RFS		0.591	0.400		0.191	0.000



⌖	MM	LOC-TP-CC7 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.004	0.004				
Z	0.000	-0.543	-0.543				
TP	RFS		1.086	0.400		0.686	0.000



⌖	MM	LOC-TP-CC8 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.104	0.104				
Z	0.000	-0.527	-0.527				
TP	RFS		1.075	0.400		0.675	0.000

⌖	MM	LOC-TP-CC9 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.126	0.126				
Z	0.000	-0.665	-0.665				
TP	RFS		1.354	0.400		0.954	0.000

⌖	MM	LOC-TP-CC10 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.162	0.162				
Z	0.000	-0.674	-0.674				
TP	RFS		1.386	0.400		0.986	0.000

⌖	MM	LOC-TP-CC11 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.195	0.195				
Z	0.000	-0.714	-0.714				
TP	RFS		1.480	0.400		1.080	0.000

⌖	MM	LOC-TP-CC12 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.201	0.201				
Z	0.000	-0.728	-0.728				
TP	RFS		1.510	0.400		1.110	0.000

⌖	MM	LOC-TP-CC13 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.134	0.134				
Z	0.000	-0.681	-0.681				
TP	RFS		1.388	0.400		0.988	0.000

⌖	MM	LOC-TP-CC14 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.118	0.118				
Z	0.000	-0.711	-0.711				
TP	RFS		1.441	0.400		1.041	0.000

⌖	MM	LOC-TP-CC15 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.073	0.073				
Z	0.000	-0.686	-0.686				
TP	RFS		1.379	0.400		0.979	0.000

⌖	MM	LOC-TP-CC16 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.069	0.069				
Z	0.000	-0.667	-0.667				
TP	RFS		1.341	0.400		0.941	0.000

⌖	MM	LOC-TP-CC17 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.134	0.134				
Z	0.000	-0.530	-0.530				
TP	RFS		1.094	0.400		0.694	0.000

⌖	MM	LOC-TP-CC18 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.058	0.058				
Z	0.000	-0.478	-0.478				
TP	RFS		0.962	0.400		0.562	0.000

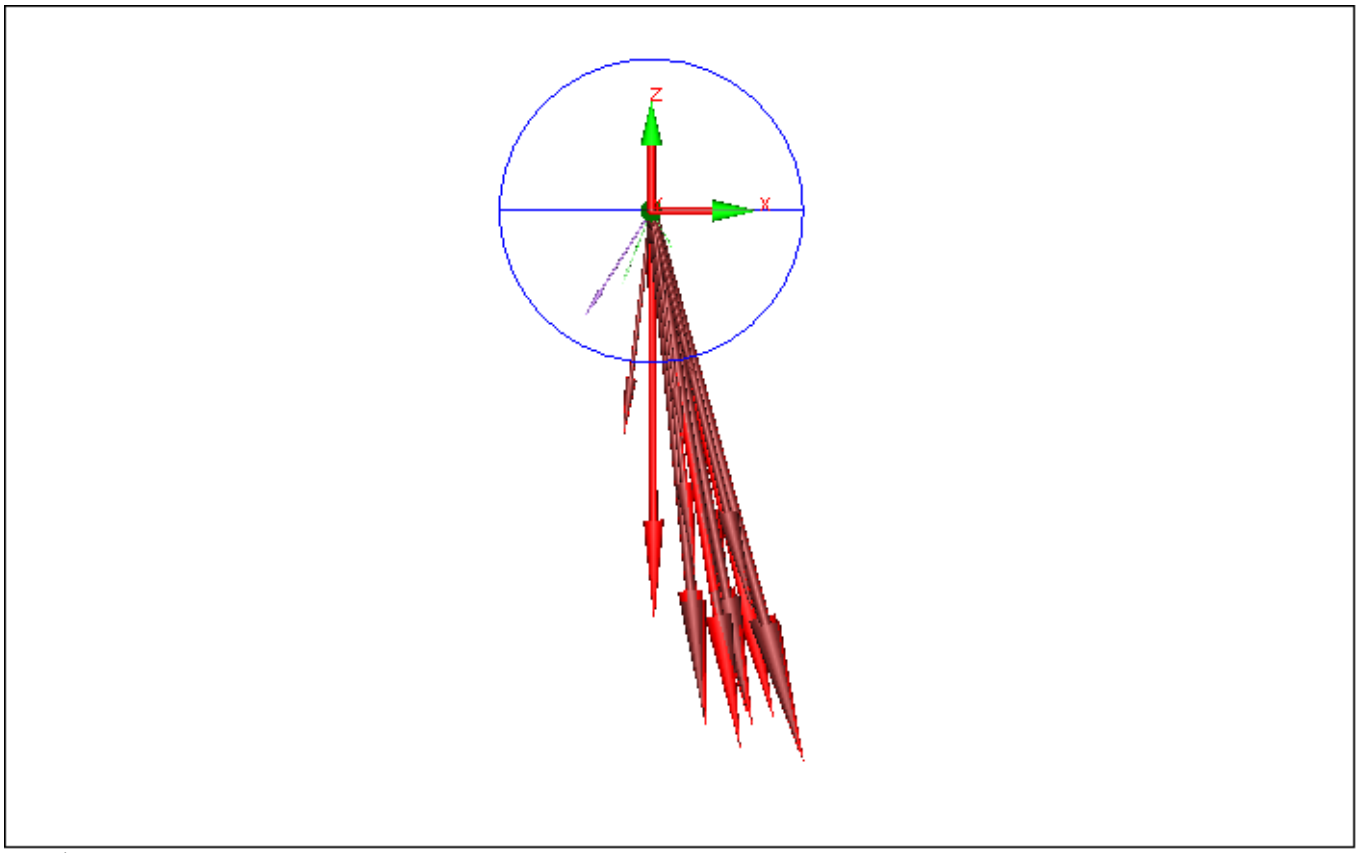
⌖	MM	LOC-TP-CC19 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.043	0.043				
Z	0.000	-0.310	-0.310				
TP	RFS		0.626	0.400		0.226	0.000

⌖	MM	LOC-TP-CC20 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.056	0.056				
Z	0.000	-0.221	-0.221				
TP	RFS		0.456	0.400		0.056	0.000

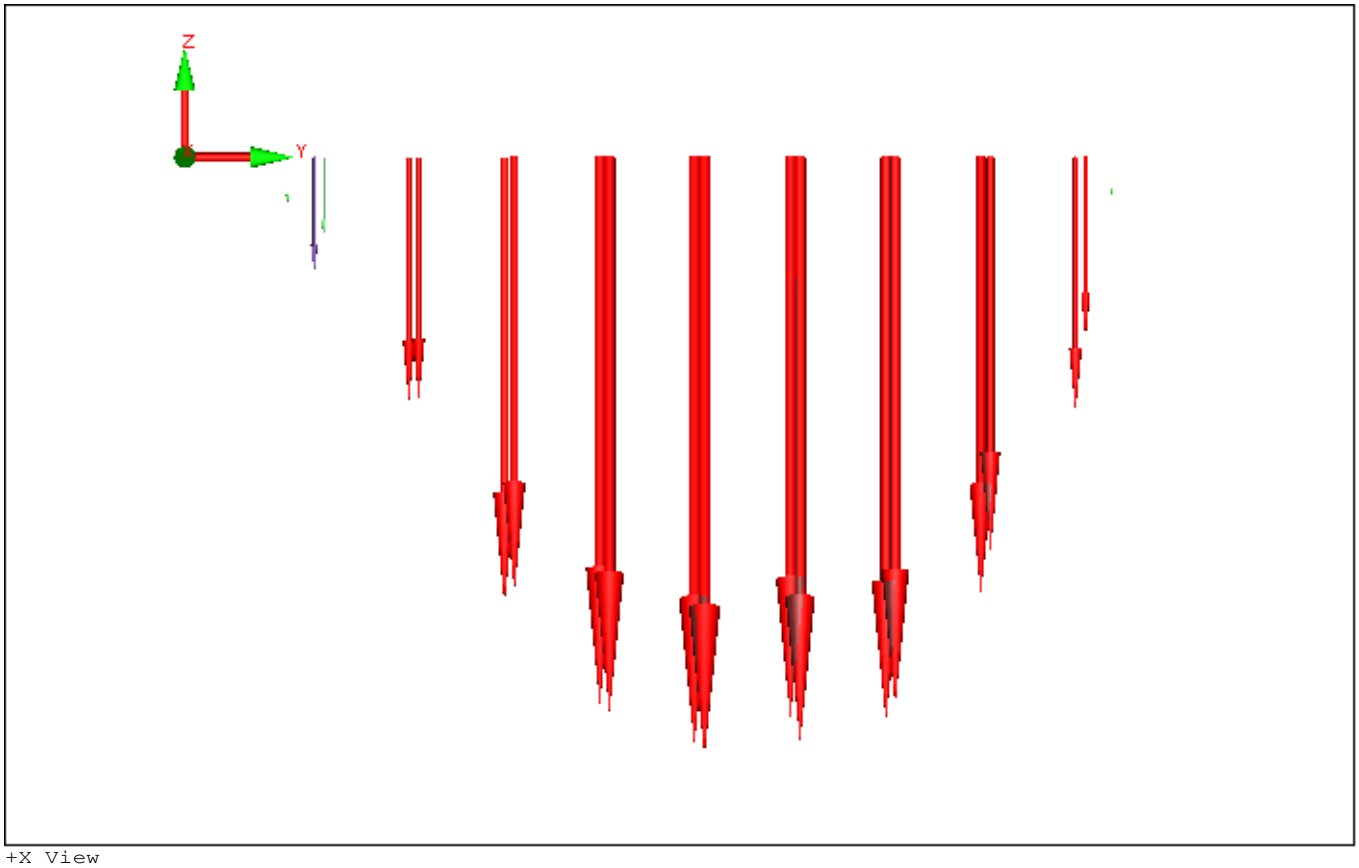
⌖	MM	LOC-TP-CC21 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.029	0.029				
Z	0.000	-0.052	-0.052				
TP	RFS		0.119	0.400		0.000	0.000

⌖	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
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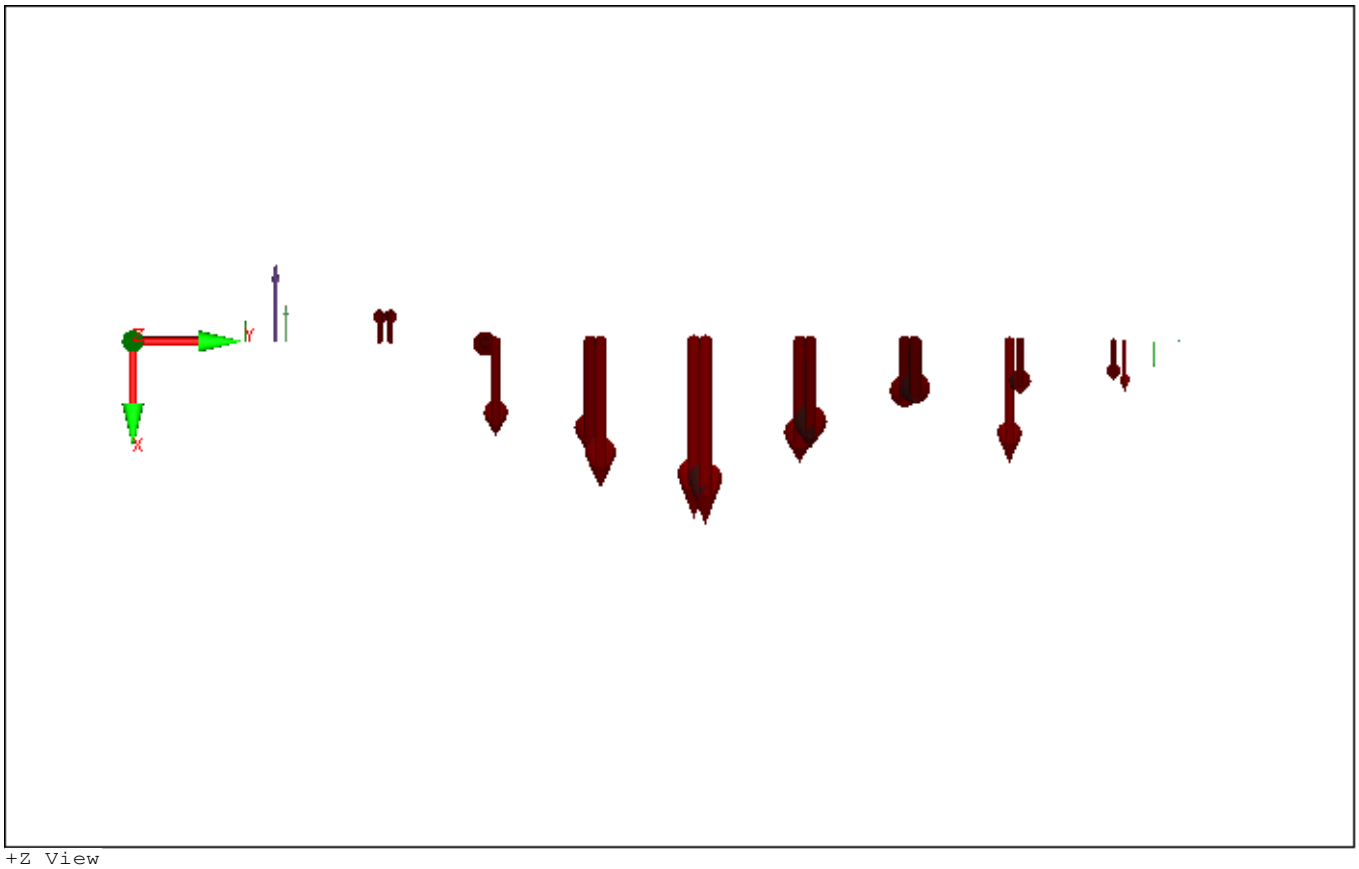

+Z View
x1000

⌖	MM	LOC-BEST FIT CONSTRUCTED LINE - LNC-BEST-FIT				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.295	0.058	-0.237	0.200	0.200	0.037
Y	658.560	623.586	-34.974	2000.000	2000.000	0.000
Z	0.000	-0.413	-0.413	0.200	0.200	0.213
ST	0.000	0.837	0.837	0.400	0.000	0.437

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	-0.178	-0.178	0.200	0.200	0.000
Y	0.000	219.463	219.463	2000.000	2000.000	0.000
Z	0.000	-0.224	-0.224	0.200	0.200	0.024
R	56.500	56.015	-0.485	0.200	0.200	0.285
RN	0.000	0.026	0.026	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	0.001	0.001	0.200	0.200	0.000
Y	0.000	335.067	335.067	2000.000	2000.000	0.000
Z	0.000	-0.515	-0.515	0.200	0.200	0.315
R	56.500	56.043	-0.457	0.200	0.200	0.257
RN	0.000	0.022	0.022	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	0.050	0.050	0.200	0.200	0.000
Y	0.000	450.064	450.064	2000.000	2000.000	0.000
Z	0.000	-0.706	-0.706	0.200	0.200	0.506
R	56.500	56.059	-0.441	0.200	0.200	0.241
RN	0.000	0.019	0.019	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	0.167	0.167	0.200	0.200	0.000
Y	0.000	565.562	565.562	2000.000	2000.000	0.000
Z	0.000	-0.770	-0.770	0.200	0.200	0.570
R	56.500	56.106	-0.394	0.200	0.200	0.194
RN	0.000	0.015	0.015	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	0.114	0.114	0.200	0.200	0.000
Y	0.000	680.868	680.868	2000.000	2000.000	0.000
Z	0.000	-0.618	-0.618	0.200	0.200	0.418
R	56.500	56.052	-0.448	0.200	0.200	0.248
RN	0.000	0.019	0.019	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	0.121	0.121	0.200	0.200	0.000
Y	0.000	796.261	796.261	2000.000	2000.000	0.000
Z	0.000	-0.725	-0.725	0.200	0.200	0.525
R	56.500	56.063	-0.437	0.200	0.200	0.237
RN	0.000	0.001	0.001	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	0.090	0.090	0.200	0.200	0.000
Y	0.000	911.761	911.761	2000.000	2000.000	0.000
Z	0.000	-0.625	-0.625	0.200	0.200	0.425
R	56.500	56.087	-0.413	0.200	0.200	0.213
RN	0.000	0.019	0.019	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	0.001	0.000	0.200	0.200	0.000
Y	0.000	1027.566	1027.566	2000.000	2000.000	0.000
Z	0.000	-0.272	-0.272	0.200	0.200	0.072
R	56.500	56.002	-0.498	0.200	0.200	0.298
RN	0.000	0.025	0.025	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	-0.122	-0.122	0.200	0.200	0.000
Y	0.000	219.441	219.441	2000.000	2000.000	0.000
Z	0.000	-0.266	-0.266	0.200	0.200	0.066
R	56.500	56.011	-0.489	0.200	0.200	0.289
RN	0.000	0.013	0.013	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	-0.022	-0.022	0.200	0.200	0.000
Y	0.000	335.057	335.057	2000.000	2000.000	0.000
Z	0.000	-0.372	-0.372	0.200	0.200	0.172
R	56.500	56.012	-0.488	0.200	0.200	0.288
RN	0.000	0.004	0.004	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	0.051	0.051	0.200	0.200	0.000
Y	0.000	449.943	449.943	2000.000	2000.000	0.000
Z	0.000	-0.675	-0.675	0.200	0.200	0.475
R	56.500	55.953	-0.547	0.200	0.200	0.347
RN	0.000	0.013	0.013	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	0.242	0.242	0.200	0.200	0.042
Y	0.000	565.547	565.547	2000.000	2000.000	0.000
Z	0.000	-0.781	-0.782	0.200	0.200	0.582
R	56.500	56.047	-0.453	0.200	0.200	0.253
RN	0.000	0.029	0.029	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	0.169	0.169	0.200	0.200	0.000
Y	0.000	679.849	679.849	2000.000	2000.000	0.000
Z	0.000	-0.730	-0.730	0.200	0.200	0.530
R	56.500	56.122	-0.378	0.200	0.200	0.178
RN	0.000	0.007	0.007	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	0.208	0.208	0.200	0.200	0.008
Y	0.000	796.251	796.251	2000.000	2000.000	0.000
Z	0.000	-0.819	-0.819	0.200	0.200	0.619
R	56.500	56.025	-0.475	0.200	0.200	0.275
RN	0.000	0.003	0.003	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	0.070	0.070	0.200	0.200	0.000
Y	0.000	911.755	911.755	2000.000	2000.000	0.000
Z	0.000	-0.572	-0.572	0.200	0.200	0.372
R	56.500	56.123	-0.377	0.200	0.200	0.177
RN	0.000	0.006	0.006	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	-0.094	-0.095	0.200	0.200	0.000
Y	0.000	1027.562	1027.562	2000.000	2000.000	0.000
Z	0.000	-0.442	-0.443	0.200	0.200	0.243
R	56.500	56.035	-0.465	0.200	0.200	0.265
RN	0.000	0.007	0.007	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	0.285	0.285	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	0.217	0.217	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	0.198	0.198	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	0.093	0.093	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	0.258	0.258	0.400	0.000	0.000

◎	MM	CON_B34 - CRC_SUPPORT_RING_B34 TO LINC_SUPPORT_RING_B34				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.205	0.205	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	0.154	0.154	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	0.216	0.216	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	0.204	0.204	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	0.050	0.050	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	0.073	0.073	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	0.330	0.330	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	0.057	0.057	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	0.083	0.083	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	0.262	0.262	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	0.306	0.306	0.400	0.000	0.000

↔	MM	A - PL-NEAR-END-FLANGE TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1247.400	1246.496	-0.904	0.200	0.200	-0.704	
↔	MM	B - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1061.060	1059.644	-1.416	0.200	0.200	-1.216	
↔	MM	C - PLC-DAT-1 TO CR_NW8_ANTENNA_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	32.240	32.779	0.539	0.200	0.200	0.339	
↔	MM	D - PLC-DAT-2 TO CR_NW_40_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	32.900	33.013	0.113	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	53.800	0.000	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	87.773	-0.227	0.200	0.200	-0.027	
⌖	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	28.445	0.025	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	60.617	0.017	0.200	0.200	0.000	
↔	MM	I2 - PL-NEAR-END-FLANGE TO CY-HOM-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1185.899	-0.901	0.200	0.200	-0.701	
↔	MM	I3 - PL-NEAR-END-FLANGE TO CR_NW_40_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1185.836	-0.964	0.200	0.200	-0.764	
∡	DEG	K - CY-HOM-1 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	30.000	30.660	0.660	0.500	0.500	0.160	
∡	DEG	L - CY-HOM-2 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	34.991	-0.009	0.500	0.500	0.000	

⊿	DEG	M - LINC_AXIS_NW40 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	0.000	0.000	0.000	0.500	0.500	0.000	
⌖	MM	O1 - CR-NEAR-END-FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	140.000	140.052	0.052	0.300	0.300	0.000	
⌖	MM	O2 - CR-FAR-END					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	140.000	140.060	0.060	0.300	0.300	0.000	
⌖	MM	P1 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.393	0.092	0.050	0.050	0.042	
⌖	MM	P2 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.349	0.049	0.050	0.050	0.000	
⌖	MM	P3 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.360	0.060	0.050	0.050	0.010	
⌖	MM	P4 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.434	0.133	0.050	0.050	0.083	
⌖	MM	P5 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.431	0.131	0.050	0.050	0.081	
⌖	MM	P6 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.406	0.106	0.050	0.050	0.056	
⌖	MM	P7 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.416	0.115	0.050	0.050	0.065	
⌖	MM	P8 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.331	0.031	0.050	0.050	0.000	
⌖	MM	P9 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.308	0.007	0.050	0.050	0.000	
⌖	MM	P10 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.318	0.017	0.050	0.050	0.000	

⌖	MM	P11 - CRC-CAV-6-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.349	0.049	0.050	0.050	0.000

⌖	MM	P12 - CRC-CAV-6-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.406	0.106	0.050	0.050	0.056

⌖	MM	P13 - CRC-CAV-7-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.364	0.063	0.050	0.050	0.013

⌖	MM	P14 - CRC-CAV-7-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.376	0.075	0.050	0.050	0.025

⌖	MM	P15 - CRC-CAV-8-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.382	0.082	0.050	0.050	0.032

⌖	MM	P16 - CRC-CAV-8-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.317	0.016	0.050	0.050	0.000

⌖	MM	P17 - CRC-CAV-9-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.328	0.027	0.050	0.050	0.000

⌖	MM	P18 - CRC-CAV-9-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.412	0.112	0.050	0.050	0.062

⌖	MM	Q1 - CR-SUPPORT-RING-T12				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.015	-0.485	0.080	0.080	0.405

⌖	MM	Q2 - CR-SUPPORT-RING-T23				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.043	-0.457	0.080	0.080	0.377

⌖	MM	Q3 - CR-SUPPORT-RING-T34				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.059	-0.441	0.080	0.080	0.361

⌖	MM	Q4 - CR-SUPPORT-RING-T45				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.106	-0.394	0.080	0.080	0.314

⌖	MM	Q5 - CR-SUPPORT-RING-T56				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.052	-0.448	0.080	0.080	0.368

⌖	MM	Q6 - CR-SUPPORT-RING-T67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.063	-0.437	0.080	0.080	0.357	
⌖	MM	Q7 - CR-SUPPORT-RING-T78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.087	-0.413	0.080	0.080	0.333	
⌖	MM	Q8 - CR-SUPPORT-RING-T89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.002	-0.498	0.080	0.080	0.418	
⌖	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	210.272	19.072	0.200	0.200	18.872	
⌖	MM	R2 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	200.000	234.507	34.507	0.200	0.200	34.307	

◎	MM	U1 - CR-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.532	0.532	0.400	0.000	0.132	
◎	MM	U2 - CR-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.548	0.548	0.400	0.000	0.148	
◎	MM	U3 - CRC-CAV-1-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.334	0.334	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	0.216	0.216	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	0.596	0.596	0.400	0.000	0.196	
◎	MM	U6 - CRC-CAV-2-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.591	0.591	0.400	0.000	0.191	
◎	MM	U7 - CRC-CAV-3-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.086	1.086	0.400	0.000	0.686	
◎	MM	U8 - CRC-CAV-3-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.075	1.075	0.400	0.000	0.675	
◎	MM	U9 - CRC-CAV-4-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.353	1.353	0.400	0.000	0.953	
◎	MM	U10 - CRC-CAV-4-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.386	1.386	0.400	0.000	0.986	
◎	MM	U11 - CRC-CAV-5-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.480	1.480	0.400	0.000	1.080	
◎	MM	U12 - CRC-CAV-5-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.510	1.510	0.400	0.000	1.110	
◎	MM	U13 - CRC-CAV-6-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.388	1.388	0.400	0.000	0.988	

◎	MM	U14 - CRC-CAV-6-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.441	1.441	0.400	0.000	1.041	
◎	MM	U15 - CRC-CAV-7-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.379	1.379	0.400	0.000	0.979	
◎	MM	U16 - CRC-CAV-7-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.341	1.341	0.400	0.000	0.941	
◎	MM	U17 - CRC-CAV-8-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.094	1.094	0.400	0.000	0.694	
◎	MM	U18 - CRC-CAV-8-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.962	0.962	0.400	0.000	0.562	
◎	MM	U19 - CRC-CAV-9-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.625	0.625	0.400	0.000	0.225	
◎	MM	U20 - CRC-CAV-9-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.456	0.456	0.400	0.000	0.056	
◎	MM	U21 - CR-SUPPORT-RING-T12 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.572	0.572	0.400	0.000	0.172	
◎	MM	U22 - CR-SUPPORT-RING-T23 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.030	1.030	0.400	0.000	0.630	
◎	MM	U23 - CR-SUPPORT-RING-T34 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.416	1.416	0.400	0.000	1.016	
◎	MM	U24 - CR-SUPPORT-RING-T45 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.575	1.575	0.400	0.000	1.175	
◎	MM	U25 - CR-SUPPORT-RING-T56 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.257	1.257	0.400	0.000	0.857	
◎	MM	U26 - CR-SUPPORT-RING-T67 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.470	1.470	0.400	0.000	1.070	

◎	MM	U27 - CR-SUPPORT-RING-T78 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.263	1.263	0.400	0.000	0.863	
◎	MM	U28 - CR-SUPPORT-RING-T89 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.544	0.544	0.400	0.000	0.144	
◎	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	0.132	0.132	0.400	0.000	0.000	

◎	MM	U40 - CRC-VAC-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.119	0.119	0.400	0.000	0.000	
⊥	MM	V1 - PL-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.350	0.350	0.200	0	0.150	
⊥	MM	V2 - PL-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.744	0.744	0.200	0	0.544	