pc-dmis	PART NAME : PN440004-n ILC 1p3GHZ RF CAVITY ASSEMBLY 000 TB9RI029 v5z IR		March 12, 2010	16:26
	REV NUMBER :	SER NUMBER :	STATS COUNT :	1

440004-n
FNAL 1.3GHZ TESLA
RF CAVITY
ASSEMBLY
@ 000 rotation
'Inspected by ' : Robert Riley
'Cavity Number' : TB9RI022
' ' : 1003121141

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	0.018	0.018	0.200	0.000	0.000

AX	I	J	K
V	-0.001	-1.000	0.002

//	MM	PARL1 - PL-NEAR-END-FLANGE TO YMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.292	0.292	0.200	0	0.092

∠	DEG	ANGL1 - PL-NEAR-END-FLANGE TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.859	-0.141	0.100	0.100	-0.041

⌖	MM	LOC2 - CR-NEAR-END-FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.114	-0.114	0.200	0.200	0.000
Z	0.000	0.311	0.311	0.200	0.200	0.111
D	140.000	140.062	0.062	0.300	0.300	0.000
RN	0.000	0.006	0.006	0.200	0.000	0.000

⌖	MM	LOC3 - PL-FAR-END				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1247.400	1246.572	-0.828	3.000	3.000	0.000
FL	0.000	0.011	0.011	0.200	0.000	0.000

AX	I	J	K
V	0.004	1.000	0.002

//	MM	PARL2 - PL-FAR-END TO YPLUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.556	0.556	0.200	0	0.356

∠	DEG	ANGL2 - PL-FAR-END TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	90.258	0.258	0.100	0.100	0.158

⌖	MM	LOC4 - CR-FAR-END				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.075	0.075	0.200	0.200	0.000
Z	0.000	0.148	0.148	0.200	0.200	0.000
D	140.000	140.063	0.063	0.300	0.300	0.000
RN	0.000	0.005	0.005	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	93.115	0.275	0.200	0.200	0.075	
FL	0.000	0.033	0.033	0.200	0.000	0.000	
AX		I		J		K	
V		-0.001		-1.000		0.003	
//	MM	PARL5 - PLC-DAT-1 TO YMINUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.339	0.339	0.200	0	0.139	
∠	DEG	ANGL7 - PLC-DAT-1 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	90.180	0.180	0.100	0.100	0.080	

DATUM-2-PLANE

⌖	MM	LOC-DATUM-2-PLANE - PLC-DAT-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	1154.560	1153.011	-1.549	0.200	0.200	1.349	
FL	0.000	0.051	0.051	0.200	0.000	0.000	
AX		I		J		K	
V		-0.002		1.000		0.001	
//	MM	PARL6 - PLC-DAT-2 TO YPLUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.243	0.243	0.200	0	0.043	
∠	DEG	ANGL8 - PLC-DAT-2 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.847	-0.153	0.100	0.100	-0.053	
↔	MM	DIST3 - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1061.060	1059.896	-1.164	0.200	0.200	-0.964	
↔	MM	DIST4 - PLC-DAT-2 TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	93.500	93.561	0.061	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	-53.947	-0.147	0.200	0.200	0.000
FL	0.000	0.005	0.005	0.200	0.000	0.000

AX	I	J	K
V	-1.000	0.000	0.014

//	MM	PARL3 - PL NW8 ANTENNA FLANGE TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.431	0.431	0.200	0	0.231

∡	DEG	ANGL3 - PL NW8 ANTENNA FLANGE TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.178	-0.822	0.100	0.100	-0.722

⌖	MM	LOC6 - CR_NW8_ANTENNA_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	60.600	60.532	-0.068	0.200	0.200	0.000
Z	0.000	0.805	0.805	0.200	0.200	0.605
D	33.800	33.817	0.017	0.150	0.000	0.000
RN	0.000	0.020	0.020	0.150	0.000	0.000

MAIN COUPLER FLANGE NW40

⌖	MM	LOC7 - PL NW 40 FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	88.000	88.221	0.221	0.200	0.200	0.021
FL	0.000	0.024	0.024	0.200	0.000	0.000

AX	I	J	K
V	1.000	-0.004	-0.004

//	MM	PARL4 - PL NW 40 FLANGE TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.421	0.421	0.200	0	0.221

∡	DEG	ANGL4 - PL NW 40 FLANGE TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.652	-0.348	0.100	0.100	-0.248

⌖	MM	LOC8 - CR_NW_40_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1186.800	1185.887	-0.913	0.200	0.200	0.713
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	76.000	75.991	-0.009	0.200	0.000	0.009
RN	0.000	0.017	0.017	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	60.685	0.085	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	31.727	-0.023					
PA	112.500	112.813	0.313					
DF	6.700	6.735	0.035	0.200	0.200	0.000	0.000	
RN	0.000	0.032	0.032	0.200	0.000	0.000		
TP	RFS		0.350	0.300		0.050	0.000	

⌖	MM	TP NW40 MC BH2 - CR NW 40 FLANGE BH2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.660	-0.090					
PA	67.500	67.774	0.274					
DF	6.700	6.736	0.036	0.200	0.200	0.000	0.000	
RN	0.000	0.015	0.015	0.200	0.000	0.000		
TP	RFS		0.352	0.300		0.052	0.000	

⌖	MM	TP NW40 MC BH3 - CR NW 40 FLANGE BH3						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.798	0.048					
PA	22.500	22.794	0.294					
DF	6.700	6.731	0.031	0.200	0.200	0.000	0.000	
RN	0.000	0.030	0.030	0.200	0.000	0.000		
TP	RFS		0.340	0.300		0.040	0.000	

⌖	MM	TP NW40 MC BH4 - CR NW 40 FLANGE BH4						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.752	0.002					
PA	-22.500	-22.237	0.263					
DF	6.700	6.746	0.046	0.200	0.200	0.000	0.000	
RN	0.000	0.046	0.046	0.200	0.000	0.000		
TP	RFS		0.291	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	31.610	-0.140					
PA	-67.500	-67.157	0.343					
DF	6.700	6.725	0.025	0.200	0.200	0.000	0.000	
RN	0.000	0.052	0.052	0.200	0.000	0.000		
TP	RFS		0.472	0.300		0.172	0.000	

	MM	TP NW40 MC BH6 - CR NW 40 FLANGE BH6					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.679	-0.071				
PA	-112.500	-112.062	0.438				
DF	6.700	6.732	0.032	0.200	0.200	0.000	0.000
RN	0.000	0.024	0.024	0.200	0.000	0.000	
TP	RFS		0.505	0.300		0.205	0.000

	MM	TP NW40 MC BH7 - CR NW 40 FLANGE BH7					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.670	-0.080				
PA	-157.500	-157.218	0.282				
DF	6.700	6.729	0.029	0.200	0.200	0.000	0.000
RN	0.000	0.024	0.024	0.200	0.000	0.000	
TP	RFS		0.350	0.300		0.050	0.000

	MM	TP NW40 MC BH8 - CR NW 40 FLANGE BH8					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.670	-0.080				
PA	157.500	157.963	0.463				
DF	6.700	6.739	0.039	0.200	0.200	0.000	0.000
RN	0.000	0.030	0.030	0.200	0.000	0.000	
TP	RFS		0.537	0.300		0.237	0.000

HOM-2 FLANGE NW12

	MM	FLAT4 - PL-NW12-FLANGE-HOM2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.003	0.003	0.200	0.000	0.000

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

AX	I	J	K
V	-0.553	0.256	0.792

	DEG	ANGL6 - PL-NW12-FLANGE-HOM2 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	35.000	55.092	20.092	0.500	0.500	19.592

	MM	LOC9 - CR-NW12-FLANGE-HOM2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-72.535	-72.535	100.000	100.000	0.000
Y	0.000	1189.911	1189.911	2000.000	2000.000	0.000
Z	0.000	-8.796	-8.796	100.000	100.000	0.000
D	33.800	33.716	-0.084	0.150	0.000	0.084
RN	0.000	0.090	0.090	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	28.534	0.114	0.100	0.100	0.014

↔	MM	DIST FORMTEIL2 TAIL - PL-FORMTEIL2 TO PL-NW12-FLANGE-HOM2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	28.420	28.536	0.116	0.100	0.100	0.016

∠	DEG	ANGL5 - PL-NW12-FLANGE-HOM2 TO LINC ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	15.000	104.669	89.669	0.500	0.500	89.169

HOM 1 LOCATION

⊕	MM	LOC-HOM1 - CY-HOM-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	68.394	68.394	100.000	100.000	0.000
Y	60.600	60.542	-0.058	0.200	0.200	0.000
Z	0.000	-40.838	-40.838	100.000	100.000	0.000
D	44.000	43.890	-0.110	0.000	0.100	0.010
RN	0.000	0.074	0.074	0.100	0.000	0.000

AX	I	J	K
V	-0.862	-0.002	0.507

∠	DEG	ANGL9 - CY-HOM-1 TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	30.000	30.463	0.463	0.500	0.500	0.000

∠	DEG	ANGL10 - CY-HOM-1 TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	-90.000	-89.882	0.118	0.500	0.500	0.000

∠	DEG	ANGL11 - CY-HOM-1 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	60.000	59.537	-0.463	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	60.378	-0.222	0.200	0.200	0.022
Z	0.000	-0.611	-0.611	0.200	0.200	0.411

▱	MM	LOC_HOM1_FLANGE_A - PL_NW12_FLANGE_HOM1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.001	0.001	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	-0.489	-0.264	-0.831

⊿	DEG	ANGL17 - PL_NW12_FLANGE_HOM1 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	15.000	107.652	92.652	0.500	0.500	92.152	

⊕	MM	LOC_HOM1_FLANGE_D - CR_NW12_FLANGE_HOM1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	40.497	39.503	-0.994	100.000	100.000	0.000	
Y	92.086	58.000	-34.085	100.000	100.000	0.000	
Z	-56.755	-59.216	-2.460	100.000	100.000	0.000	
D	33.800	33.399	-0.401	0.150	0.150	0.251	
RN	0.000	0.040	0.040	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	-64.363	-64.363	100.000	100.000	0.000	
Y	1186.800	1186.425	-0.375	3.000	3.000	0.000	
Z	0.000	-45.775	-45.775	100.000	100.000	0.000	
D	44.000	43.921	-0.079	0.000	0.100	0.000	
RN	0.000	0.047	0.047	0.100	0.000	0.000	

AX	I	J	K
V	-0.819	0.004	-0.574

↔	MM	DIST2 - CY-HOM-2 TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	60.600	60.147	-0.453	0.200	0.200	-0.253	

⊿	DEG	ANGL12 - CY-HOM-2 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	35.031	0.031	0.500	0.500	0.000	

⊿	DEG	ANGL13 - CY-HOM-2 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	-90.000	-89.749	0.251	0.500	0.500	0.000	

⊿	DEG	ANGL14 - CY-HOM-2 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	55.000	54.969	-0.031	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	1186.081	-0.719	3.000	3.000	0.000	
Z	0.000	-0.656	-0.656	0.200	0.200	0.456	

⌖	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	95.135	95.135	2000.000	2000.000	0.000
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	111.000	110.931	-0.069	0.050	0.050	0.019
RN	0.000	0.017	0.017	0.050	0.000	0.000

⌖	MM	LOC-CC2 - CRC-VAC-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.011	-0.011	0.200	0.200	0.000
Y	158.307	123.264	-35.043	2000.000	2000.000	0.000
Z	0.000	-0.121	-0.121	0.200	0.200	0.000
D	211.000	210.404	-0.596	0.200	0.200	0.396
RN	0.000	0.123	0.123	0.200	0.000	0.000

⌖	MM	LOC-CC3 - CRC-CAV-1-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.044	-0.044	0.200	0.200	0.000
Y	0.000	156.386	156.386	2000.000	2000.000	0.000
Z	0.000	-0.117	-0.118	0.200	0.200	0.000
D	210.300	210.431	0.131	0.200	0.200	0.000
RN	0.000	0.213	0.213	0.200	0.000	0.013

⌖	MM	LOC-CC4 - CRC-CAV-1-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.037	0.036	0.200	0.200	0.000
Y	0.000	168.058	168.058	2000.000	2000.000	0.000
Z	0.000	-0.100	-0.100	0.200	0.200	0.000
D	210.300	210.333	0.033	0.200	0.200	0.000
RN	0.000	0.185	0.185	0.200	0.000	0.000

⌖	MM	LOC-CC5 - CRC-CAV-2-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.083	0.083	0.200	0.200	0.000
Y	0.000	271.264	271.264	2000.000	2000.000	0.000
Z	0.000	-0.318	-0.318	0.200	0.200	0.118
D	210.300	210.280	-0.020	0.200	0.200	0.000
RN	0.000	0.246	0.246	0.200	0.000	0.046

⌖	MM	LOC-CC6 - CRC-CAV-2-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.041	0.041	0.200	0.200	0.000
Y	0.000	283.276	283.276	2000.000	2000.000	0.000
Z	0.000	-0.253	-0.253	0.200	0.200	0.053
D	210.300	210.360	0.060	0.200	0.200	0.000
RN	0.000	0.204	0.204	0.200	0.000	0.004

⌖	MM	LOC-CC7 - CRC-CAV-3-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.013	0.013	0.200	0.200	0.000
Y	0.000	386.313	386.313	2000.000	2000.000	0.000
Z	0.000	-0.450	-0.450	0.200	0.200	0.250
D	210.300	210.378	0.078	0.200	0.200	0.000
RN	0.000	0.203	0.203	0.200	0.000	0.003

⌖	MM	LOC-CC8 - CRC-CAV-3-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.018	-0.018	0.200	0.200	0.000
Y	0.000	398.743	398.743	2000.000	2000.000	0.000
Z	0.000	-0.403	-0.403	0.200	0.200	0.203
D	210.300	210.394	0.094	0.200	0.200	0.000
RN	0.000	0.194	0.194	0.200	0.000	0.000

⌖	MM	LOC-CC9 - CRC-CAV-4-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.047	0.047	0.200	0.200	0.000
Y	0.000	501.692	501.692	2000.000	2000.000	0.000
Z	0.000	-0.599	-0.599	0.200	0.200	0.399
D	210.300	210.386	0.086	0.200	0.200	0.000
RN	0.000	0.157	0.157	0.200	0.000	0.000

⌖	MM	LOC-CC10 - CRC-CAV-4-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.009	-0.009	0.200	0.200	0.000
Y	0.000	514.309	514.309	2000.000	2000.000	0.000
Z	0.000	-0.626	-0.626	0.200	0.200	0.426
D	210.300	210.309	0.009	0.200	0.200	0.000
RN	0.000	0.157	0.157	0.200	0.000	0.000

⌖	MM	LOC-CC11 - CRC-CAV-5-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.021	-0.021	0.200	0.200	0.000
Y	0.000	617.475	617.475	2000.000	2000.000	0.000
Z	0.000	-0.655	-0.655	0.200	0.200	0.455
D	210.300	210.314	0.014	0.200	0.200	0.000
RN	0.000	0.133	0.133	0.200	0.000	0.000

⊕	MM	LOC-CC12 - CRC-CAV-5-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.044	-0.044	0.200	0.200	0.000
Y	0.000	629.183	629.183	2000.000	2000.000	0.000
Z	0.000	-0.689	-0.689	0.200	0.200	0.489
D	210.300	210.319	0.019	0.200	0.200	0.000
RN	0.000	0.168	0.168	0.200	0.000	0.000

⊕	MM	LOC-CC13 - CRC-CAV-6-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.044	-0.044	0.200	0.200	0.000
Y	0.000	732.924	732.924	2000.000	2000.000	0.000
Z	0.000	-0.691	-0.691	0.200	0.200	0.491
D	210.300	210.323	0.023	0.200	0.200	0.000
RN	0.000	0.153	0.153	0.200	0.000	0.000

⊕	MM	LOC-CC14 - CRC-CAV-6-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.065	0.065	0.200	0.200	0.000
Y	0.000	744.984	744.984	2000.000	2000.000	0.000
Z	0.000	-0.665	-0.665	0.200	0.200	0.465
D	210.300	210.326	0.026	0.200	0.200	0.000
RN	0.000	0.158	0.158	0.200	0.000	0.000

⊕	MM	LOC-CC15 - CRC-CAV-7-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.056	0.056	0.200	0.200	0.000
Y	0.000	848.352	848.352	2000.000	2000.000	0.000
Z	0.000	-0.532	-0.532	0.200	0.200	0.332
D	210.300	210.448	0.148	0.200	0.200	0.000
RN	0.000	0.171	0.171	0.200	0.000	0.000

⊕	MM	LOC-CC16 - CRC-CAV-7-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.008	-0.008	0.200	0.200	0.000
Y	0.000	860.810	860.810	2000.000	2000.000	0.000
Z	0.000	-0.634	-0.634	0.200	0.200	0.434
D	210.300	210.378	0.078	0.200	0.200	0.000
RN	0.000	0.136	0.136	0.200	0.000	0.000

⊕	MM	LOC-CC17 - CRC-CAV-8-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.014	-0.014	0.200	0.200	0.000
Y	0.000	963.477	963.477	2000.000	2000.000	0.000
Z	0.000	-0.455	-0.455	0.200	0.200	0.255
D	210.300	210.419	0.119	0.200	0.200	0.000
RN	0.000	0.273	0.273	0.200	0.000	0.073

⌖	MM	LOC-CC18 - CRC-CAV-8-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.042	0.042	0.200	0.200	0.000
Y	0.000	975.526	975.526	2000.000	2000.000	0.000
Z	0.000	-0.336	-0.336	0.200	0.200	0.136
D	210.300	210.378	0.078	0.200	0.200	0.000
RN	0.000	0.205	0.205	0.200	0.000	0.005

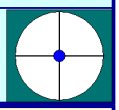
⌖	MM	LOC-CC19 - CRC-CAV-9-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.087	0.087	0.200	0.200	0.000
Y	0.000	1079.157	1079.157	2000.000	2000.000	0.000
Z	0.000	-0.128	-0.128	0.200	0.200	0.000
D	210.300	210.363	0.063	0.200	0.200	0.000
RN	0.000	0.232	0.232	0.200	0.000	0.032

⌖	MM	LOC-CC20 - CRC-CAV-9-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.082	0.082	0.200	0.200	0.000
Y	0.000	1091.416	1091.416	2000.000	2000.000	0.000
Z	0.000	-0.120	-0.121	0.200	0.200	0.000
D	210.300	210.423	0.123	0.200	0.200	0.000
RN	0.000	0.179	0.179	0.200	0.000	0.000

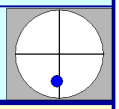
⌖	MM	LOC-CC21 - CRC-VAC-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.052	0.052	0.200	0.200	0.000
Y	1156.557	1123.014	-33.543	2000.000	2000.000	0.000
Z	0.000	0.039	0.039	0.200	0.200	0.000
D	235.000	234.513	-0.487	0.200	0.200	0.287
RN	0.000	0.117	0.117	0.200	0.000	0.000

⌖	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	1150.914	1150.914	2000.000	2000.000	0.000
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	111.000	110.953	-0.047	0.050	0.050	0.000
RN	0.000	0.019	0.019	0.050	0.000	0.000

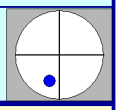
⌖	MM	LOC-TP-CC1 - CRC-DAT-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.000	0.000				
Z	0.000	0.000	0.000				
TP	RFS		0.000	0.400		0.000	0.000



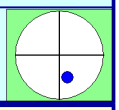
⌖	MM	LOC-TP-CC2 - CRC-VAC-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.011	-0.011				
Z	0.000	-0.121	-0.121				
TP	RFS		0.243	0.400		0.000	0.000



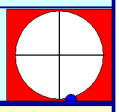
⌖	MM	LOC-TP-CC3 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.044	-0.044				
Z	0.000	-0.117	-0.118				
TP	RFS		0.251	0.400		0.000	0.000



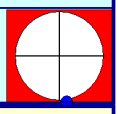
⌖	MM	LOC-TP-CC4 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.037	0.036				
Z	0.000	-0.100	-0.100				
TP	RFS		0.212	0.400		0.000	0.000



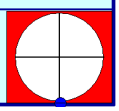
⌖	MM	LOC-TP-CC5 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.083	0.083				
Z	0.000	-0.318	-0.318				
TP	RFS		0.657	0.400		0.257	0.000



⌖	MM	LOC-TP-CC6 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.041	0.041				
Z	0.000	-0.253	-0.253				
TP	RFS		0.513	0.400		0.113	0.000



⌖	MM	LOC-TP-CC7 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.013	0.013				
Z	0.000	-0.450	-0.450				
TP	RFS		0.901	0.400		0.501	0.000



⌖	MM	LOC-TP-CC8 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.018	-0.018				
Z	0.000	-0.403	-0.403				
TP	RFS		0.807	0.400		0.407	0.000

⌖	MM	LOC-TP-CC9 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.047	0.047				
Z	0.000	-0.599	-0.599				
TP	RFS		1.202	0.400		0.802	0.000

⌖	MM	LOC-TP-CC10 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.009	-0.009				
Z	0.000	-0.626	-0.626				
TP	RFS		1.252	0.400		0.852	0.000

⌖	MM	LOC-TP-CC11 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.021	-0.021				
Z	0.000	-0.655	-0.655				
TP	RFS		1.311	0.400		0.911	0.000

⌖	MM	LOC-TP-CC12 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.044	-0.044				
Z	0.000	-0.689	-0.689				
TP	RFS		1.381	0.400		0.981	0.000

⌖	MM	LOC-TP-CC13 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.044	-0.044				
Z	0.000	-0.691	-0.691				
TP	RFS		1.384	0.400		0.984	0.000

⌖	MM	LOC-TP-CC14 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.065	0.065				
Z	0.000	-0.665	-0.665				
TP	RFS		1.336	0.400		0.936	0.000

⌖	MM	LOC-TP-CC15 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.056	0.056				
Z	0.000	-0.532	-0.532				
TP	RFS		1.069	0.400		0.669	0.000

⌖	MM	LOC-TP-CC16 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.008	-0.008				
Z	0.000	-0.634	-0.634				
TP	RFS		1.268	0.400		0.868	0.000

⌖	MM	LOC-TP-CC17 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.014	-0.014				
Z	0.000	-0.455	-0.455				
TP	RFS		0.911	0.400		0.511	0.000

⌖	MM	LOC-TP-CC18 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.042	0.042				
Z	0.000	-0.336	-0.336				
TP	RFS		0.678	0.400		0.278	0.000

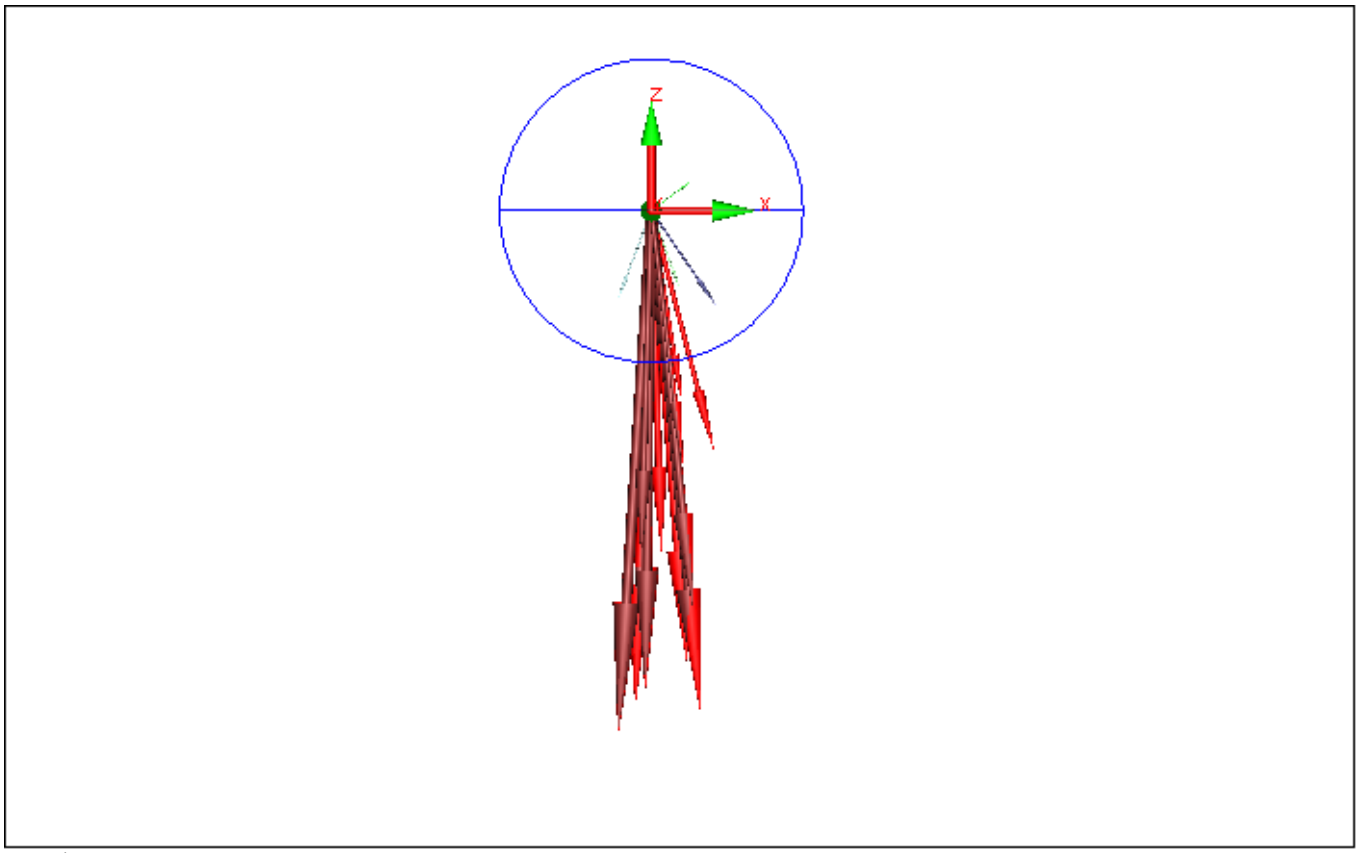
⌖	MM	LOC-TP-CC19 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.087	0.087				
Z	0.000	-0.128	-0.128				
TP	RFS		0.309	0.400		0.000	0.000

⌖	MM	LOC-TP-CC20 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.082	0.082				
Z	0.000	-0.120	-0.121				
TP	RFS		0.292	0.400		0.000	0.000

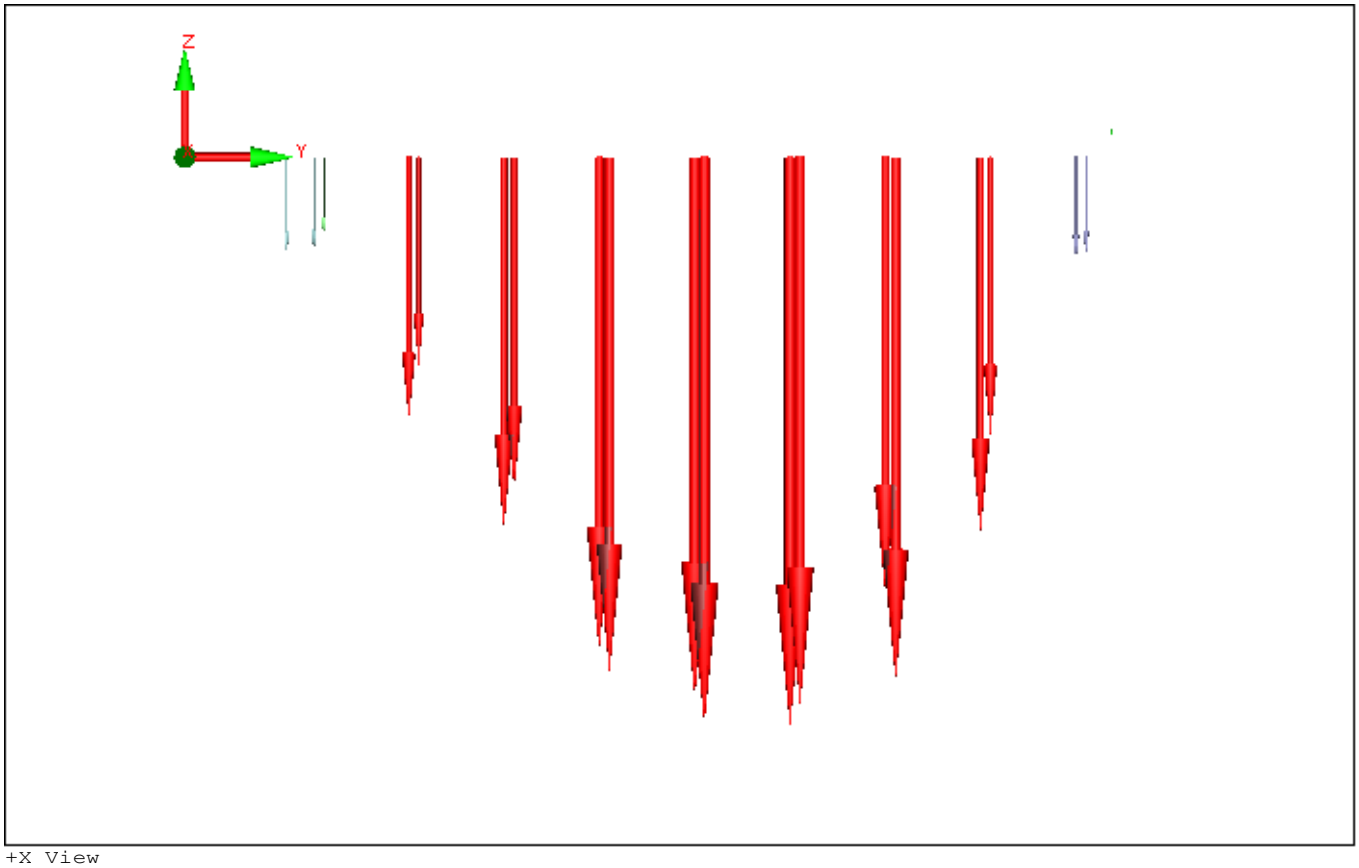
⌖	MM	LOC-TP-CC21 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.052	0.052				
Z	0.000	0.039	0.039				
TP	RFS		0.130	0.400		0.000	0.000

⌖	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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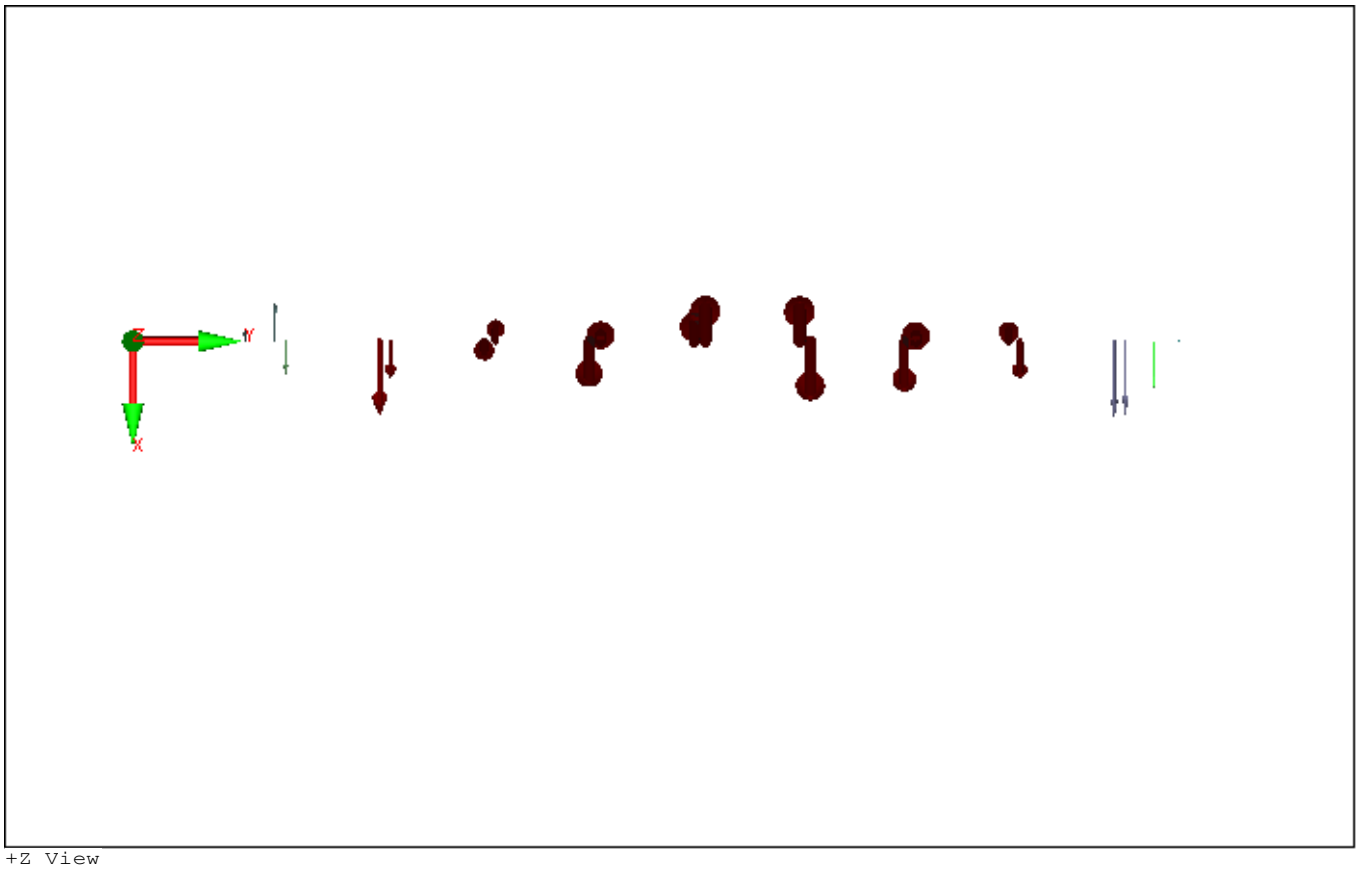

+Z View
x1000

⌖	MM	LOC-BEST FIT CONSTRUCTED LINE - LNC-BEST-FIT				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.295	0.018	-0.277	0.200	0.200	0.077
Y	658.560	623.440	-35.121	2000.000	2000.000	0.000
Z	0.000	-0.357	-0.357	0.200	0.200	0.157
ST	0.000	0.753	0.753	0.400	0.000	0.353

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	0.164	0.164	0.200	0.200	0.000
Y	0.000	219.462	219.462	2000.000	2000.000	0.000
Z	0.000	-0.321	-0.321	0.200	0.200	0.121
R	56.500	56.105	-0.395	0.200	0.200	0.195
RN	0.000	0.031	0.031	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	0.095	0.095	0.200	0.200	0.000
Y	0.000	335.076	335.076	2000.000	2000.000	0.000
Z	0.000	-0.404	-0.404	0.200	0.200	0.204
R	56.500	56.103	-0.397	0.200	0.200	0.197
RN	0.000	0.014	0.014	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	-0.094	-0.095	0.200	0.200	0.000
Y	0.000	450.063	450.063	2000.000	2000.000	0.000
Z	0.000	-0.582	-0.582	0.200	0.200	0.382
R	56.500	56.137	-0.363	0.200	0.200	0.163
RN	0.000	0.009	0.009	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	-0.039	-0.039	0.200	0.200	0.000
Y	0.000	565.560	565.560	2000.000	2000.000	0.000
Z	0.000	-0.599	-0.599	0.200	0.200	0.399
R	56.500	56.021	-0.479	0.200	0.200	0.279
RN	0.000	0.028	0.028	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	-0.099	-0.099	0.200	0.200	0.000
Y	0.000	680.862	680.862	2000.000	2000.000	0.000
Z	0.000	-0.841	-0.841	0.200	0.200	0.641
R	56.500	56.071	-0.429	0.200	0.200	0.229
RN	0.000	0.031	0.031	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	0.105	0.105	0.200	0.200	0.000
Y	0.000	796.263	796.263	2000.000	2000.000	0.000
Z	0.000	-0.680	-0.680	0.200	0.200	0.480
R	56.500	56.169	-0.331	0.200	0.200	0.131
RN	0.000	0.002	0.002	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	-0.019	-0.019	0.200	0.200	0.000
Y	0.000	911.761	911.761	2000.000	2000.000	0.000
Z	0.000	-0.522	-0.522	0.200	0.200	0.322
R	56.500	56.117	-0.383	0.200	0.200	0.183
RN	0.000	0.021	0.021	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	0.063	0.063	0.200	0.200	0.000
Y	0.000	1027.566	1027.566	2000.000	2000.000	0.000
Z	0.000	-0.170	-0.170	0.200	0.200	0.000
R	56.500	56.102	-0.398	0.200	0.200	0.198
RN	0.000	0.019	0.019	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	0.113	0.113	0.200	0.200	0.000
Y	0.000	219.446	219.446	2000.000	2000.000	0.000
Z	0.000	-0.135	-0.136	0.200	0.200	0.000
R	56.500	56.093	-0.407	0.200	0.200	0.207
RN	0.000	0.003	0.003	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	0.062	0.062	0.200	0.200	0.000
Y	0.000	335.044	335.044	2000.000	2000.000	0.000
Z	0.000	-0.350	-0.350	0.200	0.200	0.150
R	56.500	56.127	-0.373	0.200	0.200	0.173
RN	0.000	0.014	0.014	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	-0.078	-0.078	0.200	0.200	0.000
Y	0.000	449.952	449.952	2000.000	2000.000	0.000
Z	0.000	-0.514	-0.514	0.200	0.200	0.314
R	56.500	56.113	-0.387	0.200	0.200	0.187
RN	0.000	0.033	0.033	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	-0.025	-0.025	0.200	0.200	0.000
Y	0.000	565.546	565.546	2000.000	2000.000	0.000
Z	0.000	-0.602	-0.602	0.200	0.200	0.402
R	56.500	56.048	-0.452	0.200	0.200	0.252
RN	0.000	0.028	0.028	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	-0.055	-0.055	0.200	0.200	0.000
Y	0.000	679.855	679.855	2000.000	2000.000	0.000
Z	0.000	-0.729	-0.730	0.200	0.200	0.530
R	56.500	56.087	-0.413	0.200	0.200	0.213
RN	0.000	0.023	0.023	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	0.131	0.131	0.200	0.200	0.000
Y	0.000	796.253	796.253	2000.000	2000.000	0.000
Z	0.000	-0.537	-0.537	0.200	0.200	0.337
R	56.500	56.157	-0.343	0.200	0.200	0.143
RN	0.000	0.014	0.014	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	-0.090	-0.091	0.200	0.200	0.000
Y	0.000	911.747	911.747	2000.000	2000.000	0.000
Z	0.000	-0.574	-0.574	0.200	0.200	0.374
R	56.500	56.085	-0.415	0.200	0.200	0.215
RN	0.000	0.016	0.016	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	0.106	0.106	0.200	0.200	0.000
Y	0.000	1027.569	1027.569	2000.000	2000.000	0.000
Z	0.000	-0.206	-0.206	0.200	0.200	0.006
R	56.500	56.099	-0.401	0.200	0.200	0.201
RN	0.000	0.010	0.010	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	0.308	0.308	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	0.180	0.180	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	0.172	0.172	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	0.071	0.071	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	0.272	0.272	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	0.186	0.186	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	0.097	0.097	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	0.079	0.079	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	0.322	0.322	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	0.082	0.082	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	0.185	0.185	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	0.187	0.187	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	0.048	0.048	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	0.170	0.170	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	0.123	0.123	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	0.096	0.096	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	1246.572	-0.828	0.200	0.200	-0.628	
↔	MM	B - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1061.060	1059.896	-1.164	0.200	0.200	-0.964	
↔	MM	C - PLC-DAT-1 TO CR_NW8_ANTENNA_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	32.240	32.583	0.343	0.200	0.200	0.143	
↔	MM	D - PLC-DAT-2 TO CR_NW_40_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	32.900	32.876	-0.024	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	53.947	0.147	0.200	0.200	0.000	
↔	MM	F - LNC-LEVEL TO PL NW 40 FLANGE (XAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	88.000	88.221	0.221	0.200	0.200	0.021	
⌖	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	28.536	0.116	0.100	0.100	0.016	
↔	MM	I1 - PL-NEAR-END-FLANGE TO CY-HOM-1 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	60.600	60.542	-0.058	0.200	0.200	0.000	
↔	MM	I2 - PL-NEAR-END-FLANGE TO CY-HOM-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1186.425	-0.375	0.200	0.200	-0.175	
↔	MM	I3 - PL-NEAR-END-FLANGE TO CR_NW_40_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1185.887	-0.913	0.200	0.200	-0.713	
∡	DEG	K - CY-HOM-1 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	30.000	30.463	0.463	0.500	0.500	0.000	
∡	DEG	L - CY-HOM-2 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	35.031	0.031	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	140.062	0.062	0.300	0.300	0.000

⌖	MM	O2 - CR-FAR-END				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	140.000	140.063	0.063	0.300	0.300	0.000

⌖	MM	P1 - CRC-CAV-1-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.431	0.130	0.050	0.050	0.080

⌖	MM	P2 - CRC-CAV-1-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.333	0.032	0.050	0.050	0.000

⌖	MM	P3 - CRC-CAV-2-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.280	-0.020	0.050	0.050	0.000

⌖	MM	P4 - CRC-CAV-2-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.360	0.060	0.050	0.050	0.010

⌖	MM	P5 - CRC-CAV-3-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.378	0.078	0.050	0.050	0.028

⌖	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	210.386	0.085	0.050	0.050	0.035

⌖	MM	P8 - CRC-CAV-4-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.309	0.009	0.050	0.050	0.000

⌖	MM	P9 - CRC-CAV-5-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.314	0.014	0.050	0.050	0.000

⌖	MM	P10 - CRC-CAV-5-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.319	0.019	0.050	0.050	0.000

⌖	MM	P11 - CRC-CAV-6-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.323	0.022	0.050	0.050	0.000

⌖	MM	P12 - CRC-CAV-6-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.326	0.025	0.050	0.050	0.000

⌖	MM	P13 - CRC-CAV-7-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.448	0.148	0.050	0.050	0.098

⌖	MM	P14 - CRC-CAV-7-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.378	0.078	0.050	0.050	0.028

⌖	MM	P15 - CRC-CAV-8-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.419	0.119	0.050	0.050	0.069

⌖	MM	P16 - CRC-CAV-8-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.378	0.078	0.050	0.050	0.028

⌖	MM	P17 - CRC-CAV-9-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.363	0.062	0.050	0.050	0.012

⌖	MM	P18 - CRC-CAV-9-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.423	0.123	0.050	0.050	0.073

⌖	MM	Q1 - CR-SUPPORT-RING-T12				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.105	-0.395	0.080	0.080	0.315

⌖	MM	Q2 - CR-SUPPORT-RING-T23				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.103	-0.397	0.080	0.080	0.317

⌖	MM	Q3 - CR-SUPPORT-RING-T34				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.137	-0.363	0.080	0.080	0.283

⌖	MM	Q4 - CR-SUPPORT-RING-T45				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.021	-0.479	0.080	0.080	0.399

⌖	MM	Q5 - CR-SUPPORT-RING-T56				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.071	-0.429	0.080	0.080	0.349

⌖	MM	Q6 - CR-SUPPORT-RING-T67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.169	-0.331	0.080	0.080	0.251	
⌖	MM	Q7 - CR-SUPPORT-RING-T78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.117	-0.383	0.080	0.080	0.303	
⌖	MM	Q8 - CR-SUPPORT-RING-T89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.102	-0.398	0.080	0.080	0.318	
⌖	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	210.404	19.204	0.200	0.200	19.004	
⌖	MM	R2 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	200.000	234.513	34.513	0.200	0.200	34.313	

◎	MM	U1 - CR-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.662	0.662	0.400	0.000	0.262	
◎	MM	U2 - CR-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.331	0.331	0.400	0.000	0.000	
◎	MM	U3 - CRC-CAV-1-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.251	0.251	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	0.212	0.212	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	0.657	0.657	0.400	0.000	0.257	
◎	MM	U6 - CRC-CAV-2-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.513	0.513	0.400	0.000	0.113	
◎	MM	U7 - CRC-CAV-3-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.901	0.901	0.400	0.000	0.501	
◎	MM	U8 - CRC-CAV-3-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.806	0.806	0.400	0.000	0.406	
◎	MM	U9 - CRC-CAV-4-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.201	1.201	0.400	0.000	0.801	
◎	MM	U10 - CRC-CAV-4-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.252	1.252	0.400	0.000	0.852	
◎	MM	U11 - CRC-CAV-5-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.311	1.311	0.400	0.000	0.911	
◎	MM	U12 - CRC-CAV-5-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.381	1.381	0.400	0.000	0.981	
◎	MM	U13 - CRC-CAV-6-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.384	1.384	0.400	0.000	0.984	

◎	MM	U14 - CRC-CAV-6-2 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.336	1.336	0.400	0.000	0.936

◎	MM	U15 - CRC-CAV-7-1 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.069	1.069	0.400	0.000	0.669

◎	MM	U16 - CRC-CAV-7-2 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.268	1.268	0.400	0.000	0.868

◎	MM	U17 - CRC-CAV-8-1 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.911	0.911	0.400	0.000	0.511

◎	MM	U18 - CRC-CAV-8-2 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.678	0.678	0.400	0.000	0.278

◎	MM	U19 - CRC-CAV-9-1 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.309	0.309	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	0.292	0.292	0.400	0.000	0.000

◎	MM	U21 - CR-SUPPORT-RING-T12 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.722	0.722	0.400	0.000	0.322

◎	MM	U22 - CR-SUPPORT-RING-T23 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.831	0.831	0.400	0.000	0.431

◎	MM	U23 - CR-SUPPORT-RING-T34 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.179	1.179	0.400	0.000	0.779

◎	MM	U24 - CR-SUPPORT-RING-T45 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.200	1.200	0.400	0.000	0.800

◎	MM	U25 - CR-SUPPORT-RING-T56 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.693	1.693	0.400	0.000	1.293

◎	MM	U26 - CR-SUPPORT-RING-T67 TO LNC-LEVEL				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.376	1.376	0.400	0.000	0.976

◎	MM	U27 - CR-SUPPORT-RING-T78 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.045	1.045	0.400	0.000	0.645	
◎	MM	U28 - CR-SUPPORT-RING-T89 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.362	0.362	0.400	0.000	0.000	
◎	MM	U29 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U30 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U31 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U32 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U33 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U34 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U35 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U36 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U37 - CRC-DAT-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U38 - CRC-DAT-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U39 - CRC-VAC-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.243	0.243	0.400	0.000	0.000	

◎	MM	U40 - CRC-VAC-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.131	0.131	0.400	0.000	0.000	
⊥	MM	V1 - PL-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.292	0.292	0.200	0	0.092	
⊥	MM	V2 - PL-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.556	0.556	0.200	0	0.356	