pc-dmis	PART NAME : PN440004-n ILC 1p3GHZ RF CAVITY ASSEMBLY 000 TB9NR005 v5x IR09		March 14, 2013	09:02
	REV NUMBER :	SER NUMBER :	STATS COUNT :	1

440004-n
FNAL 1.3GHZ TESLA
RF CAVITY
ASSEMBLY
@ 000 rotation
'Inspected by ' : Robert Riley
'Cavity Number' : TB9NR009
' ' : 1303131338

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	0.010	0.010	0.200	0.000	0.000

AX	I	J	K
V	0.000	-1.000	0.002

//	MM	PARL1 - PL-NEAR-END-FLANGE TO YMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.285	0.285	0.200	0	0.085

∠	DEG	ANGL1 - PL-NEAR-END-FLANGE TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.862	-0.138	0.100	0.100	-0.038

⌖	MM	LOC2 - CR-NEAR-END-FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.044	0.044	0.200	0.200	0.000
Z	0.000	0.251	0.251	0.200	0.200	0.051
D	140.000	139.956	-0.044	0.300	0.300	0.000
RN	0.000	0.024	0.024	0.200	0.000	0.000

⌗	MM	LOC3 - PL-FAR-END					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	1247.400	1251.781	4.381	3.000	3.000	1.381	
FL	0.000	0.015	0.015	0.200	0.000	0.000	

AX	I	J	K
V	-0.003	1.000	0.004

//	MM	PARL2 - PL-FAR-END TO YPLUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.605	0.605	0.200	0	0.405	
∠	DEG	ANGL2 - PL-FAR-END TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.713	-0.287	0.100	0.100	-0.187	
⌗	MM	LOC4 - CR-FAR-END					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.602	-0.602	0.200	0.200	0.402	
Z	0.000	0.111	0.110	0.200	0.200	0.000	
D	140.000	140.017	0.017	0.300	0.300	0.000	
RN	0.000	0.048	0.048	0.200	0.000	0.000	

DATUM-1-PLANE

⌗	MM	LOC-DATUM-1-PLANE - PLC-DAT-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	92.840	92.203	-0.637	0.200	0.200	0.437	
FL	0.000	0.051	0.051	0.200	0.000	0.000	
AX		I		J		K	
V		0.002		-1.000		0.003	
//	MM	PARL5 - PLC-DAT-1 TO YMINUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.325	0.325	0.200	0	0.125	
∡	DEG	ANGL7 - PLC-DAT-1 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	90.191	0.191	0.100	0.100	0.091	

DATUM-2-PLANE

⌗	MM	LOC-DATUM-2-PLANE - PLC-DAT-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	1154.560	1158.882	4.322	0.200	0.200	4.122	
FL	0.000	0.030	0.030	0.200	0.000	0.000	
AX		I		J		K	
V		-0.005		1.000		0.002	
//	MM	PARL6 - PLC-DAT-2 TO YPLUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.510	0.510	0.200	0	0.310	
∡	DEG	ANGL8 - PLC-DAT-2 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	90.331	0.331	0.100	0.100	0.231	
↔	MM	DIST3 - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1061.060	1066.679	5.619	0.200	0.200	5.419	
↔	MM	DIST4 - PLC-DAT-2 TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	93.500	92.899	-0.601	0.200	0.200	-0.401	

PICKUP ANTENNA FLANGE NW8

⌖	MM	LOC5 - PL NW8 ANTENNA FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	-53.800	-53.396	0.403	0.200	0.200	0.203	
FL	0.000	0.002	0.002	0.200	0.000	0.000	
AX		I		J		K	
V		-1.000		0.001		-0.013	
//	MM	PARL3 - PL NW8 ANTENNA FLANGE TO XMINUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.366	0.366	0.200	0	0.166	
∠	DEG	ANGL3 - PL NW8 ANTENNA FLANGE TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.295	-0.705	0.100	0.100	-0.605	
⌖	MM	LOC6 - CR_NW8_ANTENNA_FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	60.600	60.368	-0.232	0.200	0.200	0.032	
Z	0.000	-0.107	-0.108	0.200	0.200	0.000	
D	33.800	33.620	-0.180	0.150	0.000	0.180	
RN	0.000	0.063	0.063	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	87.921	-0.079	0.200	0.200	0.000	
FL	0.000	0.009	0.009	0.200	0.000	0.000	
AX		I		J		K	
V		1.000		-0.003		-0.003	
//	MM	PARL4 - PL NW 40 FLANGE TO XMINUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.347	0.347	0.200	0	0.147	
∠	DEG	ANGL4 - PL NW 40 FLANGE TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.713	-0.287	0.100	0.100	-0.187	
⌖	MM	LOC8 - CR_NW_40_FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	1186.800	1192.077	5.277	0.200	0.200	5.077	
Z	0.000	0.000	0.000	0.200	0.200	0.000	
D	76.000	76.016	0.016	0.200	0.000	0.000	
RN	0.000	0.019	0.019	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	59.704	-0.896	0.200	0.200	-0.696	

	MM	TP NW40 MC BH1 - CR NW 40 FLANGE BH1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.710	-0.040				
PA	112.500	112.942	0.442				
DF	6.700	6.813	0.113	0.200	0.200	0.000	0.000
RN	0.000	0.038	0.038	0.200	0.000	0.000	
TP	RFS		0.496	0.300		0.196	0.000

	MM	TP NW40 MC BH2 - CR NW 40 FLANGE BH2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.741	-0.009				
PA	67.500	68.001	0.501				
DF	6.700	6.802	0.102	0.200	0.200	0.000	0.000
RN	0.000	0.017	0.017	0.200	0.000	0.000	
TP	RFS		0.555	0.300		0.255	0.000

	MM	TP NW40 MC BH3 - CR NW 40 FLANGE BH3					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.781	0.031				
PA	22.500	23.122	0.622				
DF	6.700	7.035	0.335	0.200	0.200	0.135	0.000
RN	0.000	0.055	0.055	0.200	0.000	0.000	
TP	RFS		0.693	0.300		0.393	0.000

	MM	TP NW40 MC BH4 - CR NW 40 FLANGE BH4					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.753	0.003				
PA	-22.500	-21.817	0.683				
DF	6.700	6.808	0.108	0.200	0.200	0.000	0.000
RN	0.000	0.018	0.018	0.200	0.000	0.000	
TP	RFS		0.757	0.300		0.457	0.000

	MM	TP NW40 MC BH5 - CR NW 40 FLANGE BH5					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.725	-0.025				
PA	-67.500	-66.761	0.739				
DF	6.700	6.787	0.087	0.200	0.200	0.000	0.000
RN	0.000	0.019	0.019	0.200	0.000	0.000	
TP	RFS		0.821	0.300		0.521	0.000

	MM	TP NW40 MC BH6 - CR NW 40 FLANGE BH6					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.682	-0.068				
PA	-112.500	-111.767	0.733				
DF	6.700	6.800	0.100	0.200	0.200	0.000	0.000
RN	0.000	0.020	0.020	0.200	0.000	0.000	
TP	RFS		0.822	0.300		0.522	0.000

	MM	TP NW40 MC BH7 - CR NW 40 FLANGE BH7					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.623	-0.127				
PA	-157.500	-156.856	0.644				
DF	6.700	6.809	0.109	0.200	0.200	0.000	0.000
RN	0.000	0.029	0.029	0.200	0.000	0.000	
TP	RFS		0.756	0.300		0.456	0.000

	MM	TP NW40 MC BH8 - CR NW 40 FLANGE BH8					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.642	-0.108				
PA	157.500	157.947	0.447				
DF	6.700	6.791	0.091	0.200	0.200	0.000	0.000
RN	0.000	0.037	0.037	0.200	0.000	0.000	
TP	RFS		0.539	0.300		0.239	0.000

HOM-2 FLANGE NW12

	MM	FLAT4 - PL-NW12-FLANGE-HOM2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.024	0.024	0.200	0.000	0.000

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

AX	I	J	K
V	-0.559	0.234	0.795

	DEG	ANGL6 - PL-NW12-FLANGE-HOM2 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	35.000	54.915	19.915	0.500	0.500	19.415

	MM	LOC9 - CR-NW12-FLANGE-HOM2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-71.668	-71.668	100.000	100.000	0.000
Y	0.000	1194.413	1194.413	2000.000	2000.000	0.000
Z	0.000	-9.866	-9.866	100.000	100.000	0.000
D	33.800	33.566	-0.234	0.150	0.000	0.234
RN	0.000	0.118	0.118	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	28.395	-0.025	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	28.395	-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	103.796	88.796	0.500	0.500	88.296

HOM 1 LOCATION

⊕	MM	LOC-HOM1 - CY-HOM-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	69.058	69.058	100.000	100.000	0.000
Y	60.600	59.925	-0.675	0.200	0.200	0.475
Z	0.000	-39.641	-39.641	100.000	100.000	0.000
D	44.000	43.952	-0.048	0.000	0.100	0.000
RN	0.000	0.052	0.052	0.100	0.000	0.000

AX	I	J	K
V	-0.866	0.012	0.500

∠	DEG	ANGL9 - CY-HOM-1 TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	30.000	30.003	0.003	0.500	0.500	0.000

∠	DEG	ANGL10 - CY-HOM-1 TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	-90.000	-89.339	0.661	0.500	0.500	0.161

∠	DEG	ANGL11 - CY-HOM-1 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	60.000	59.997	-0.003	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	60.845	0.245	0.200	0.200	0.045
Z	0.000	0.233	0.233	0.200	0.200	0.033

▱	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	-0.482	-0.264	-0.836

⊿	DEG	ANGL17 - PL_NW12_FLANGE_HOM1 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	15.000	107.568	92.568	0.500	0.500	92.068

⊞	MM	LOC_HOM1_FLANGE_D - CR_NW12_FLANGE_HOM1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	40.497	40.367	-0.129	100.000	100.000	0.000
Y	92.086	56.846	-35.239	100.000	100.000	0.000
Z	-56.755	-58.351	-1.595	100.000	100.000	0.000
D	33.800	33.380	-0.420	0.150	0.150	0.270
RN	0.000	0.041	0.041	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	-64.320	-64.320	100.000	100.000	0.000
Y	1186.800	1191.424	4.624	3.000	3.000	1.624
Z	0.000	-45.357	-45.357	100.000	100.000	0.000
D	44.000	43.957	-0.043	0.000	0.100	0.000
RN	0.000	0.074	0.074	0.100	0.000	0.000

AX	I	J	K
V	-0.814	-0.007	-0.581

↔	MM	DIST2 - CY-HOM-2 TO PL-FAR-END (YAXIS)				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	60.600	60.357	-0.243	0.200	0.200	-0.043

⊿	DEG	ANGL12 - CY-HOM-2 TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	35.000	35.471	0.471	0.500	0.500	0.000

⊿	DEG	ANGL13 - CY-HOM-2 TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	-90.000	-89.607	0.393	0.500	0.500	0.000

⊿	DEG	ANGL14 - CY-HOM-2 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	55.000	54.529	-0.471	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	1191.965	5.165	3.000	3.000	2.165
Z	0.000	0.472	0.472	0.200	0.200	0.272

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	93.885	93.885	2000.000	2000.000	0.000
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	111.000	110.874	-0.126	0.050	0.050	0.076
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	-0.344	-0.344	0.200	0.200	0.144
Y	158.307	121.504	-36.804	2000.000	2000.000	0.000
Z	0.000	-0.057	-0.057	0.200	0.200	0.000
D	211.000	210.171	-0.829	0.200	0.200	0.629
RN	0.000	0.415	0.415	0.200	0.000	0.215

⌖	MM	LOC-CC3 - CRC-CAV-1-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.074	-0.074	0.200	0.200	0.000
Y	0.000	156.419	156.419	2000.000	2000.000	0.000
Z	0.000	-0.326	-0.326	0.200	0.200	0.126
D	210.300	210.938	0.638	0.200	0.200	0.438
RN	0.000	0.155	0.155	0.200	0.000	0.000

⌖	MM	LOC-CC4 - CRC-CAV-1-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.078	-0.079	0.200	0.200	0.000
Y	0.000	166.889	166.889	2000.000	2000.000	0.000
Z	0.000	-0.348	-0.348	0.200	0.200	0.148
D	210.300	211.328	1.027	0.200	0.200	0.827
RN	0.000	0.175	0.175	0.200	0.000	0.000

⌖	MM	LOC-CC5 - CRC-CAV-2-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.176	-0.176	0.200	0.200	0.000
Y	0.000	272.757	272.757	2000.000	2000.000	0.000
Z	0.000	-0.755	-0.755	0.200	0.200	0.555
D	210.300	211.232	0.932	0.200	0.200	0.732
RN	0.000	0.356	0.356	0.200	0.000	0.156

⊞	MM	LOC-CC6 - CRC-CAV-2-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.157	-0.157	0.200	0.200	0.000
Y	0.000	283.099	283.099	2000.000	2000.000	0.000
Z	0.000	-0.759	-0.759	0.200	0.200	0.559
D	210.300	211.212	0.912	0.200	0.200	0.712
RN	0.000	0.127	0.127	0.200	0.000	0.000

⊞	MM	LOC-CC7 - CRC-CAV-3-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.221	0.221	0.200	0.200	0.021
Y	0.000	388.775	388.775	2000.000	2000.000	0.000
Z	0.000	-1.035	-1.035	0.200	0.200	0.835
D	210.300	211.204	0.904	0.200	0.200	0.704
RN	0.000	0.163	0.163	0.200	0.000	0.000

⊞	MM	LOC-CC8 - CRC-CAV-3-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.293	0.293	0.200	0.200	0.093
Y	0.000	398.974	398.974	2000.000	2000.000	0.000
Z	0.000	-1.051	-1.051	0.200	0.200	0.851
D	210.300	211.187	0.887	0.200	0.200	0.687
RN	0.000	0.265	0.265	0.200	0.000	0.065

⊞	MM	LOC-CC9 - CRC-CAV-4-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.320	0.320	0.200	0.200	0.120
Y	0.000	504.987	504.987	2000.000	2000.000	0.000
Z	0.000	-1.493	-1.493	0.200	0.200	1.293
D	210.300	211.263	0.963	0.200	0.200	0.763
RN	0.000	0.346	0.346	0.200	0.000	0.146

⊞	MM	LOC-CC10 - CRC-CAV-4-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.332	0.332	0.200	0.200	0.132
Y	0.000	515.209	515.209	2000.000	2000.000	0.000
Z	0.000	-1.532	-1.532	0.200	0.200	1.332
D	210.300	211.263	0.963	0.200	0.200	0.763
RN	0.000	0.281	0.281	0.200	0.000	0.081

⊞	MM	LOC-CC11 - CRC-CAV-5-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.603	0.603	0.200	0.200	0.403
Y	0.000	620.887	620.887	2000.000	2000.000	0.000
Z	0.000	-1.323	-1.324	0.200	0.200	1.124
D	210.300	211.121	0.821	0.200	0.200	0.621
RN	0.000	0.312	0.312	0.200	0.000	0.112

⌗	MM	LOC-CC12 - CRC-CAV-5-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.624	0.624	0.200	0.200	0.424
Y	0.000	631.486	631.486	2000.000	2000.000	0.000
Z	0.000	-1.313	-1.313	0.200	0.200	1.113
D	210.300	211.216	0.916	0.200	0.200	0.716
RN	0.000	0.231	0.231	0.200	0.000	0.031

⌗	MM	LOC-CC13 - CRC-CAV-6-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.835	0.835	0.200	0.200	0.635
Y	0.000	737.086	737.086	2000.000	2000.000	0.000
Z	0.000	-1.068	-1.068	0.200	0.200	0.868
D	210.300	211.240	0.940	0.200	0.200	0.740
RN	0.000	0.277	0.277	0.200	0.000	0.077

⌗	MM	LOC-CC14 - CRC-CAV-6-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.971	0.971	0.200	0.200	0.771
Y	0.000	747.796	747.796	2000.000	2000.000	0.000
Z	0.000	-1.004	-1.004	0.200	0.200	0.804
D	210.300	211.188	0.888	0.200	0.200	0.688
RN	0.000	0.236	0.236	0.200	0.000	0.036

⌗	MM	LOC-CC15 - CRC-CAV-7-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.906	0.906	0.200	0.200	0.706
Y	0.000	853.320	853.320	2000.000	2000.000	0.000
Z	0.000	-0.651	-0.651	0.200	0.200	0.451
D	210.300	211.277	0.977	0.200	0.200	0.777
RN	0.000	0.460	0.460	0.200	0.000	0.260

⌗	MM	LOC-CC16 - CRC-CAV-7-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	1.010	1.010	0.200	0.200	0.810
Y	0.000	864.345	864.345	2000.000	2000.000	0.000
Z	0.000	-0.571	-0.571	0.200	0.200	0.371
D	210.300	211.280	0.980	0.200	0.200	0.780
RN	0.000	0.313	0.313	0.200	0.000	0.113

⌗	MM	LOC-CC17 - CRC-CAV-8-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.966	0.966	0.200	0.200	0.766
Y	0.000	969.582	969.582	2000.000	2000.000	0.000
Z	0.000	-0.270	-0.270	0.200	0.200	0.070
D	210.300	211.196	0.896	0.200	0.200	0.696
RN	0.000	0.260	0.260	0.200	0.000	0.060

⊞	MM	LOC-CC18 - CRC-CAV-8-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.927	0.927	0.200	0.200	0.727
Y	0.000	980.036	980.036	2000.000	2000.000	0.000
Z	0.000	-0.289	-0.289	0.200	0.200	0.089
D	210.300	211.286	0.986	0.200	0.200	0.786
RN	0.000	0.246	0.246	0.200	0.000	0.046

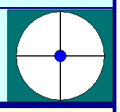
⊞	MM	LOC-CC19 - CRC-CAV-9-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.485	0.485	0.200	0.200	0.285
Y	0.000	1086.171	1086.171	2000.000	2000.000	0.000
Z	0.000	-0.117	-0.117	0.200	0.200	0.000
D	210.300	211.253	0.953	0.200	0.200	0.753
RN	0.000	0.226	0.226	0.200	0.000	0.026

⊞	MM	LOC-CC20 - CRC-CAV-9-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.302	0.302	0.200	0.200	0.102
Y	0.000	1096.539	1096.539	2000.000	2000.000	0.000
Z	0.000	0.058	0.058	0.200	0.200	0.000
D	210.300	210.828	0.528	0.200	0.200	0.328
RN	0.000	0.337	0.337	0.200	0.000	0.137

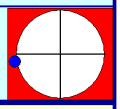
⊞	MM	LOC-CC21 - CRC-VAC-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.248	0.248	0.200	0.200	0.048
Y	1156.557	1125.062	-31.494	2000.000	2000.000	0.000
Z	0.000	-0.027	-0.027	0.200	0.200	0.000
D	235.000	234.592	-0.408	0.200	0.200	0.208
RN	0.000	0.119	0.119	0.200	0.000	0.000

⊞	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	1156.834	1156.834	2000.000	2000.000	0.000
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	111.000	110.811	-0.188	0.050	0.050	0.138
RN	0.000	0.033	0.033	0.050	0.000	0.000

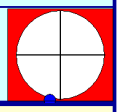
⌖	MM	LOC-TP-CC1 - CRC-DAT-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.000	0.000				
Z	0.000	0.000	0.000				
TP	RFS		0.000	0.400		0.000	0.000



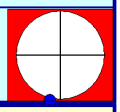
⌖	MM	LOC-TP-CC2 - CRC-VAC-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.344	-0.344				
Z	0.000	-0.057	-0.057				
TP	RFS		0.698	0.400		0.298	0.000



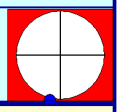
⌖	MM	LOC-TP-CC3 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.074	-0.074				
Z	0.000	-0.326	-0.326				
TP	RFS		0.669	0.400		0.269	0.000



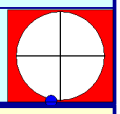
⌖	MM	LOC-TP-CC4 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.078	-0.079				
Z	0.000	-0.348	-0.348				
TP	RFS		0.713	0.400		0.313	0.000



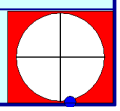
⌖	MM	LOC-TP-CC5 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.176	-0.176				
Z	0.000	-0.755	-0.755				
TP	RFS		1.551	0.400		1.151	0.000



⌖	MM	LOC-TP-CC6 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.157	-0.157				
Z	0.000	-0.759	-0.759				
TP	RFS		1.550	0.400		1.150	0.000



⌖	MM	LOC-TP-CC7 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.221	0.221				
Z	0.000	-1.035	-1.035				
TP	RFS		2.117	0.400		1.717	0.000



⌖	MM	LOC-TP-CC8 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.293	0.293				
Z	0.000	-1.051	-1.051				
TP	RFS		2.182	0.400		1.782	0.000

⌖	MM	LOC-TP-CC9 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.320	0.320				
Z	0.000	-1.493	-1.493				
TP	RFS		3.054	0.400		2.654	0.000

⌖	MM	LOC-TP-CC10 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.332	0.332				
Z	0.000	-1.532	-1.532				
TP	RFS		3.134	0.400		2.734	0.000

⌖	MM	LOC-TP-CC11 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.603	0.603				
Z	0.000	-1.323	-1.324				
TP	RFS		2.909	0.400		2.509	0.000

⌖	MM	LOC-TP-CC12 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.624	0.624				
Z	0.000	-1.313	-1.313				
TP	RFS		2.907	0.400		2.507	0.000

⌖	MM	LOC-TP-CC13 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.835	0.835				
Z	0.000	-1.068	-1.068				
TP	RFS		2.712	0.400		2.312	0.000

⌖	MM	LOC-TP-CC14 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.971	0.971				
Z	0.000	-1.004	-1.004				
TP	RFS		2.793	0.400		2.393	0.000

⌖	MM	LOC-TP-CC15 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.906	0.906				
Z	0.000	-0.651	-0.651				
TP	RFS		2.230	0.400		1.830	0.000

⌖	MM	LOC-TP-CC16 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	1.010	1.010				
Z	0.000	-0.571	-0.571				
TP	RFS		2.321	0.400		1.921	0.000

⌖	MM	LOC-TP-CC17 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.966	0.966				
Z	0.000	-0.270	-0.270				
TP	RFS		2.005	0.400		1.605	0.000

⌖	MM	LOC-TP-CC18 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.927	0.927				
Z	0.000	-0.289	-0.289				
TP	RFS		1.942	0.400		1.542	0.000

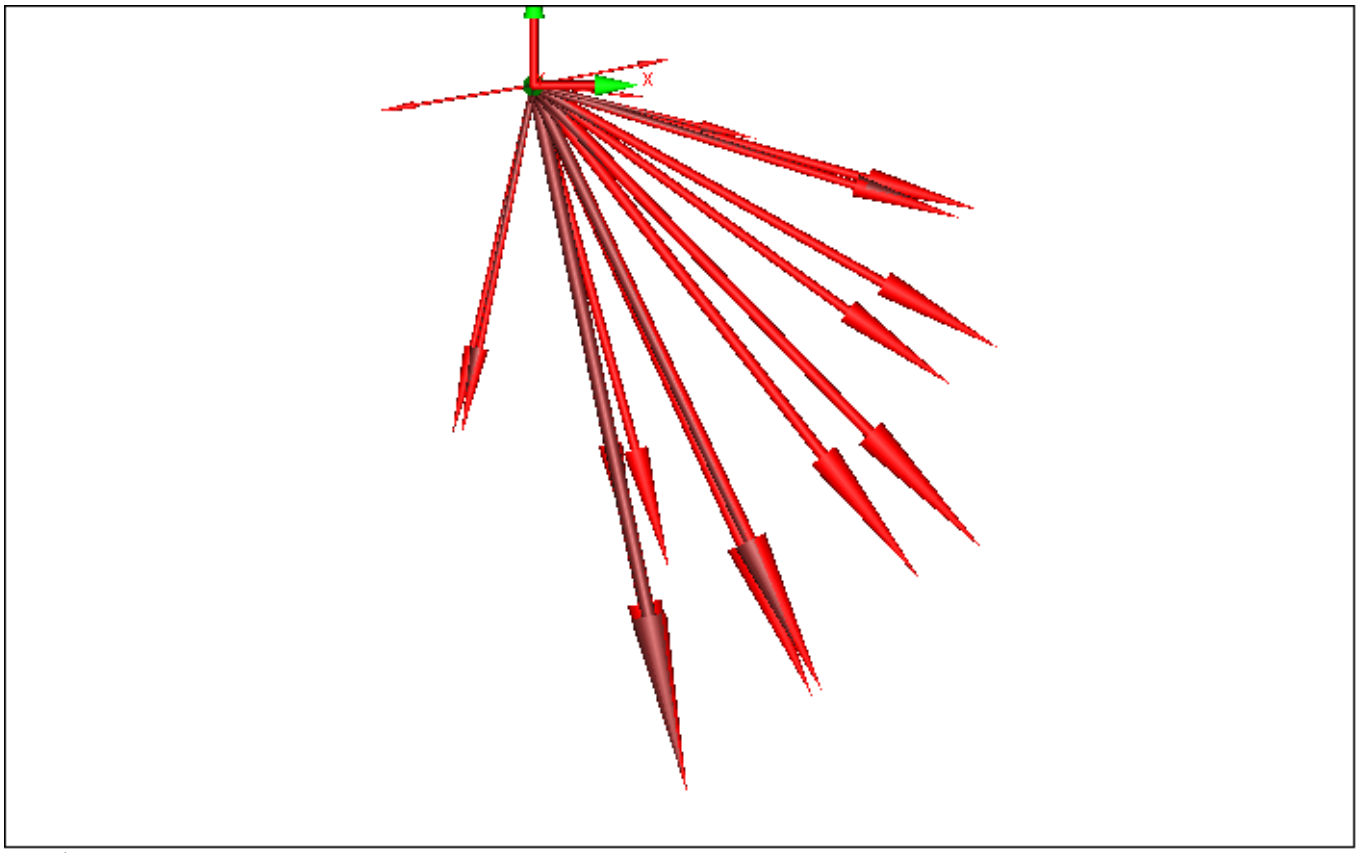
⌖	MM	LOC-TP-CC19 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.485	0.485				
Z	0.000	-0.117	-0.117				
TP	RFS		0.998	0.400		0.598	0.000

⌖	MM	LOC-TP-CC20 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.302	0.302				
Z	0.000	0.058	0.058				
TP	RFS		0.616	0.400		0.216	0.000

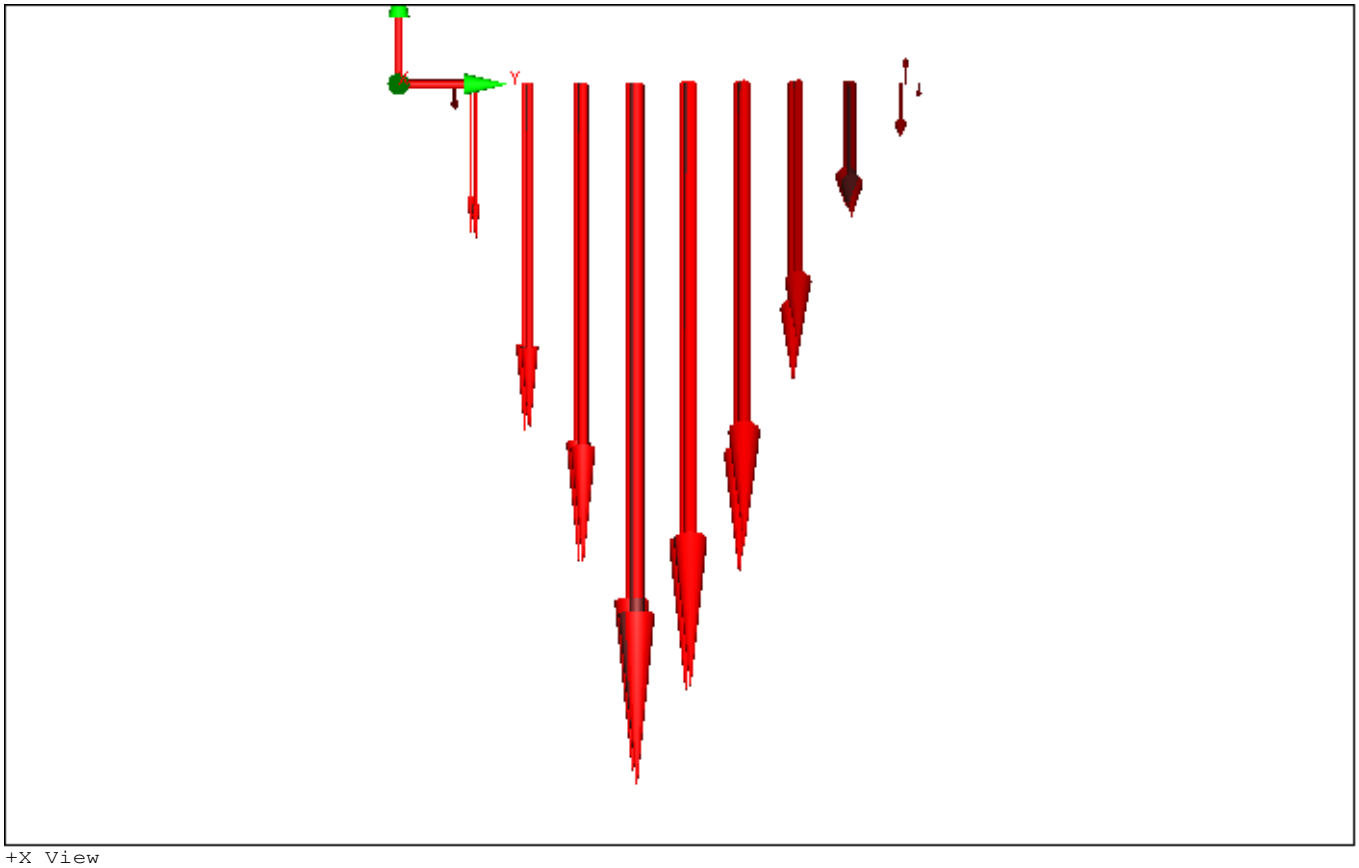
⌖	MM	LOC-TP-CC21 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.248	0.248				
Z	0.000	-0.027	-0.027				
TP	RFS		0.499	0.400		0.099	0.000

⌖	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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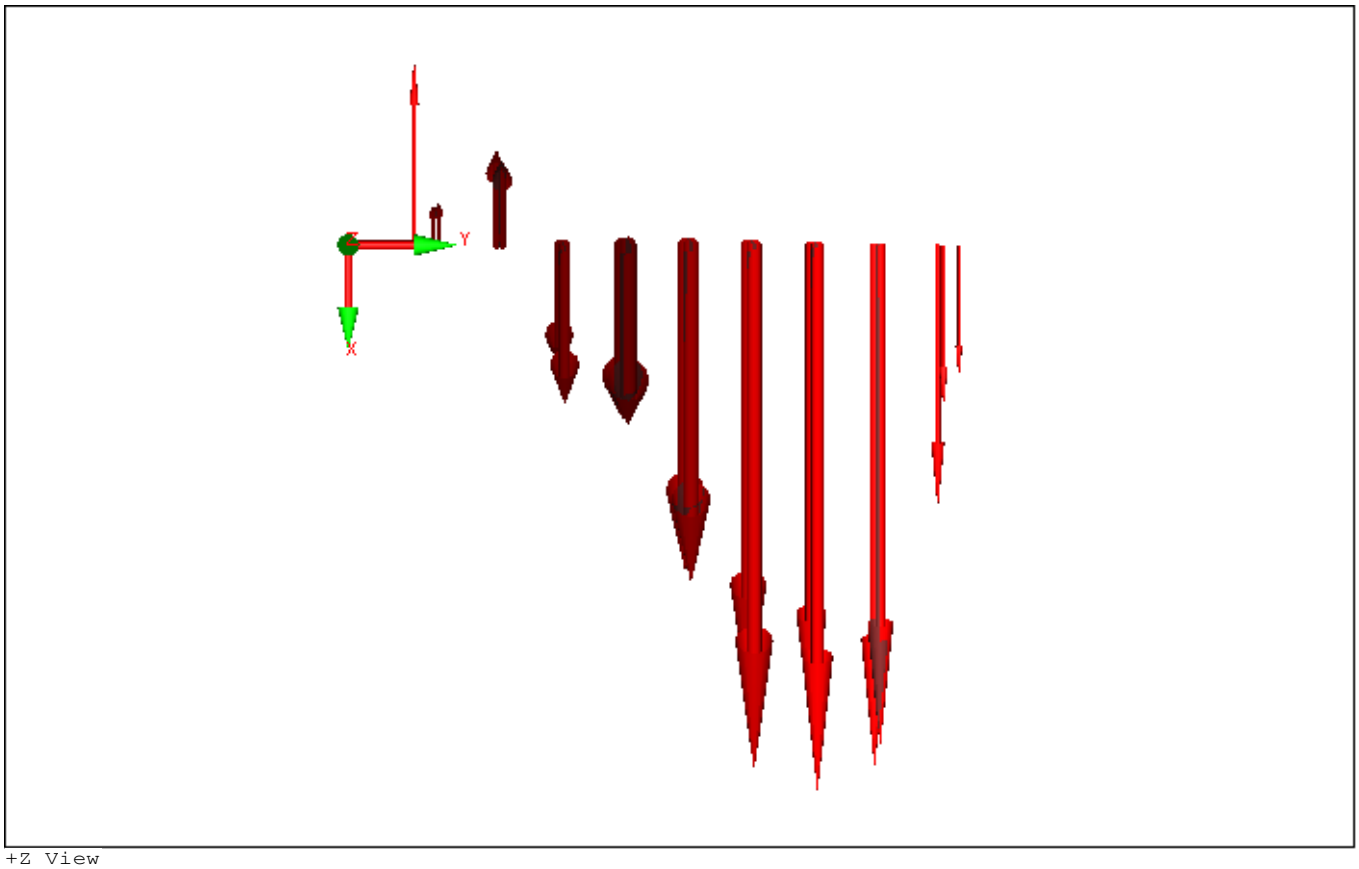

+Z View
x1000

⌗	MM	LOC-BEST FIT CONSTRUCTED LINE - LNC-BEST-FIT				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.295	0.373	0.078	0.200	0.200	0.000
Y	658.560	625.984	-32.576	2000.000	2000.000	0.000
Z	0.000	-0.633	-0.633	0.200	0.200	0.433
ST	0.000	1.704	1.704	0.400	0.000	1.304

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

⌗	MM	LOC-SUPPORT RING-P1 - CR_SUPPORT_RING_P12				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.265	-0.265	0.200	0.200	0.065
Y	0.000	218.562	218.562	2000.000	2000.000	0.000
Z	0.000	-0.516	-0.516	0.200	0.200	0.316
R	56.500	56.454	-0.046	0.200	0.200	0.000
RN	0.000	0.005	0.005	0.200	0.000	0.000

⌗	MM	LOC-SUPPORT RING-P2 - CR_SUPPORT_RING_P23				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-1.136	-1.136	0.200	0.200	0.936
Y	0.000	334.164	334.164	2000.000	2000.000	0.000
Z	0.000	-1.110	-1.110	0.200	0.200	0.910
R	56.500	57.502	1.002	0.200	0.200	0.802
RN	0.000	0.191	0.191	0.200	0.000	0.000

⊞	MM	LOC-SUPPORT RING-P3 - CR_SUPPORT_RING_P34				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.180	-0.180	0.200	0.200	0.000
Y	0.000	449.057	449.057	2000.000	2000.000	0.000
Z	0.000	-1.121	-1.121	0.200	0.200	0.921
R	56.500	56.798	0.298	0.200	0.200	0.098
RN	0.000	0.011	0.011	0.200	0.000	0.000

⊞	MM	LOC-SUPPORT RING-P4 - CR_SUPPORT_RING_P45				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.643	-0.643	0.200	0.200	0.443
Y	0.000	564.655	564.655	2000.000	2000.000	0.000
Z	0.000	-0.577	-0.577	0.200	0.200	0.377
R	56.500	57.541	1.041	0.200	0.200	0.841
RN	0.000	0.197	0.197	0.200	0.000	0.000

⊞	MM	LOC-SUPPORT RING-P5 - CR_SUPPORT_RING_P56				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.798	0.798	0.200	0.200	0.598
Y	0.000	679.958	679.958	2000.000	2000.000	0.000
Z	0.000	-1.496	-1.496	0.200	0.200	1.296
R	56.500	56.305	-0.195	0.200	0.200	0.000
RN	0.000	0.054	0.054	0.200	0.000	0.000

⊞	MM	LOC-SUPPORT RING-P6 - CR_SUPPORT_RING_P67				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	1.225	1.224	0.200	0.200	1.024
Y	0.000	795.372	795.372	2000.000	2000.000	0.000
Z	0.000	-0.858	-0.858	0.200	0.200	0.658
R	56.500	56.218	-0.282	0.200	0.200	0.082
RN	0.000	0.105	0.105	0.200	0.000	0.000

⊞	MM	LOC-SUPPORT RING-P7 - CR_SUPPORT_RING_P78				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	1.447	1.447	0.200	0.200	1.247
Y	0.000	910.869	910.869	2000.000	2000.000	0.000
Z	0.000	-0.430	-0.430	0.200	0.200	0.230
R	56.500	56.245	-0.255	0.200	0.200	0.055
RN	0.000	0.193	0.193	0.200	0.000	0.000

⊞	MM	LOC-SUPPORT RING-P8 - CR_SUPPORT_RING_P89				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.171	0.171	0.200	0.200	0.000
Y	0.000	1026.663	1026.663	2000.000	2000.000	0.000
Z	0.000	0.043	0.043	0.200	0.200	0.000
R	56.500	57.041	0.541	0.200	0.200	0.341
RN	0.000	0.154	0.154	0.200	0.000	0.000

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

⌗	MM	LOC_SUPPORT_RING_N1 - CR_SUPPORT_RING_N12				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.016	0.016	0.200	0.200	0.000
Y	255.357	218.557	-36.800	2000.000	2000.000	0.000
Z	0.000	-0.487	-0.487	0.200	0.200	0.287
R	56.500	56.278	-0.222	0.200	0.200	0.022
RN	0.000	0.047	0.047	0.200	0.000	0.000

⌗	MM	LOC_SUPPORT_RING_N2 - CR_SUPPORT_RING_N23				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.060	0.060	0.200	0.200	0.000
Y	370.957	334.156	-36.801	2000.000	2000.000	0.000
Z	0.000	-0.933	-0.933	0.200	0.200	0.733
R	56.500	56.375	-0.125	0.200	0.200	0.000
RN	0.000	0.026	0.026	0.200	0.000	0.000

⌗	MM	LOC_SUPPORT_RING_N3 - CR_SUPPORT_RING_N34				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.387	0.387	0.200	0.200	0.187
Y	485.857	449.059	-36.798	2000.000	2000.000	0.000
Z	0.000	-1.339	-1.339	0.200	0.200	1.139
R	56.500	56.384	-0.116	0.200	0.200	0.000
RN	0.000	0.030	0.030	0.200	0.000	0.000

⌗	MM	LOC_SUPPORT_RING_N4 - CR_SUPPORT_RING_N45				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	1.125	1.125	0.200	0.200	0.925
Y	601.457	564.659	-36.798	2000.000	2000.000	0.000
Z	0.000	-0.767	-0.767	0.200	0.200	0.567
R	56.500	57.150	0.650	0.200	0.200	0.450
RN	0.000	0.103	0.103	0.200	0.000	0.000

⌗	MM	LOC_SUPPORT_RING_N5 - CR_SUPPORT_RING_N56				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.430	0.430	0.200	0.200	0.230
Y	716.757	679.957	-36.800	2000.000	2000.000	0.000
Z	0.000	-1.515	-1.515	0.200	0.200	1.315
R	56.500	56.234	-0.266	0.200	0.200	0.066
RN	0.000	0.220	0.220	0.200	0.000	0.020

⌖	MM	LOC_SUPPORT_RING_N6 - CR_SUPPORT_RING_N67				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	1.053	1.053	0.200	0.200	0.853
Y	832.157	795.359	-36.798	2000.000	2000.000	0.000
Z	0.000	-0.819	-0.820	0.200	0.200	0.620
R	56.500	56.415	-0.085	0.200	0.200	0.000
RN	0.000	0.076	0.076	0.200	0.000	0.000

⌖	MM	LOC_SUPPORT_RING_N7 - CR_SUPPORT_RING_N78				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	1.027	1.027	0.200	0.200	0.827
Y	947.657	910.859	-36.798	2000.000	2000.000	0.000
Z	0.000	-0.262	-0.262	0.200	0.200	0.062
R	56.500	56.522	0.022	0.200	0.200	0.000
RN	0.000	0.159	0.159	0.200	0.000	0.000

⌖	MM	LOC_SUPPORT_RING_N8 - CR_SUPPORT_RING_N89				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-1.378	-1.378	0.200	0.200	1.178
Y	1063.457	1026.656	-36.802	2000.000	2000.000	0.000
Z	0.000	0.177	0.177	0.200	0.200	0.000
R	56.500	56.446	-0.054	0.200	0.200	0.000
RN	0.000	0.109	0.109	0.200	0.000	0.000

CONCENTRICITY SUPPORT RING CIRCLES
Negative X & Positive X (left & right) (X)

◎	MM	CON_P12 - CR_SUPPORT_RING_P12 TO LINC_SUPPORT_RING_B12				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.284	0.284	0.400	0.000	0.000

◎	MM	CON_N12 - CR_SUPPORT_RING_N12 TO LINC_SUPPORT_RING_B12				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.308	0.308	0.400	0.000	0.000

◎	MM	CON_P23 - CR_SUPPORT_RING_P23 TO LINC_SUPPORT_RING_B23				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	2.364	2.364	0.400	0.000	1.964

◎	MM	CON_N23 - CR_SUPPORT_RING_N23 TO LINC_SUPPORT_RING_B23				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.107	0.107	0.400	0.000	0.000

◎	MM	CON_P34 - CR_SUPPORT_RING_P34 TO LINC_SUPPORT_RING_B34				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.011	1.011	0.400	0.000	0.611

◎	MM	CON_N34 - CR_SUPPORT_RING_N34 TO LINC_SUPPORT_RING_B34				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.227	0.227	0.400	0.000	0.000

◎	MM	CON_P45 - CR_SUPPORT_RING_P45 TO LINC_SUPPORT_RING_B45				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	2.792	2.792	0.400	0.000	2.392

◎	MM	CON_N45 - CR_SUPPORT_RING_N45 TO LINC_SUPPORT_RING_B45				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.886	1.886	0.400	0.000	1.486

◎	MM	CON_P56 - CR_SUPPORT_RING_P56 TO LINC_SUPPORT_RING_B56				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.610	0.610	0.400	0.000	0.210

◎	MM	CON_N56 - CR_SUPPORT_RING_N56 TO LINC_SUPPORT_RING_B56				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.856	0.856	0.400	0.000	0.456

◎	MM	CON_P67 - CR_SUPPORT_RING_P67 TO LINC_SUPPORT_RING_B67				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.567	0.567	0.400	0.000	0.167

◎	MM	CON_N67 - CR_SUPPORT_RING_N67 TO LINC_SUPPORT_RING_B67				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.228	0.228	0.400	0.000	0.000

◎	MM	CON_P78 - CR_SUPPORT_RING_P78 TO LINC_SUPPORT_RING_B78				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.913	0.913	0.400	0.000	0.513

◎	MM	CON_N78 - CR_SUPPORT_RING_N78 TO LINC_SUPPORT_RING_B78				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.360	0.360	0.400	0.000	0.000

◎	MM	CON_P89 - CR_SUPPORT_RING_P89 TO LINC_SUPPORT_RING_B89				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.235	1.235	0.400	0.000	0.835

◎	MM	CON_N89 - CR_SUPPORT_RING_N89 TO LINC_SUPPORT_RING_B89				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	4.293	4.293	0.400	0.000	3.893

↔	MM	A - PL-NEAR-END-FLANGE TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1247.400	1251.781	4.381	0.200	0.200	4.181	
↔	MM	B - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1061.060	1066.679	5.619	0.200	0.200	5.419	
↔	MM	C - PLC-DAT-1 TO CR_NW8_ANTENNA_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	32.240	31.835	-0.405	0.200	0.200	-0.205	
↔	MM	D - PLC-DAT-2 TO CR_NW_40_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	32.900	33.195	0.295	0.200	0.200	0.095	
↔	MM	E - LNC-LEVEL TO PL NW8 ANTENNA FLANGE (XAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	53.800	53.396	-0.404	0.200	0.200	-0.204	
↔	MM	F - LNC-LEVEL TO PL NW 40 FLANGE (XAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	88.000	87.921	-0.079	0.200	0.200	0.000	
⌖	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	28.395	-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	59.925	-0.675	0.200	0.200	-0.475	
↔	MM	I2 - PL-NEAR-END-FLANGE TO CY-HOM-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1191.424	4.624	0.200	0.200	4.424	
↔	MM	I3 - PL-NEAR-END-FLANGE TO CR_NW_40_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1192.077	5.277	0.200	0.200	5.077	
∠	DEG	K - CY-HOM-1 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	30.000	30.003	0.003	0.500	0.500	0.000	
∠	DEG	L - CY-HOM-2 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	35.471	0.471	0.500	0.500	0.000	

⊿	DEG	M - LINC_AXIS_NW40 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	0.000	0.000	0.000	0.500	0.500	0.000	
⌖	MM	O1 - CR-NEAR-END-FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	140.000	139.956	-0.044	0.300	0.300	0.000	
⌖	MM	O2 - CR-FAR-END					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	140.000	140.017	0.017	0.300	0.300	0.000	
⌖	MM	P1 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.938	0.638	0.050	0.050	0.588	
⌖	MM	P2 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.328	1.027	0.050	0.050	0.977	
⌖	MM	P3 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.232	0.931	0.050	0.050	0.881	
⌖	MM	P4 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.212	0.912	0.050	0.050	0.862	
⌖	MM	P5 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.204	0.903	0.050	0.050	0.853	
⌖	MM	P6 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.187	0.887	0.050	0.050	0.837	
⌖	MM	P7 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.263	0.962	0.050	0.050	0.912	
⌖	MM	P8 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.263	0.962	0.050	0.050	0.912	
⌖	MM	P9 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.121	0.821	0.050	0.050	0.771	
⌖	MM	P10 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.216	0.915	0.050	0.050	0.865	

⌖	MM	P11 - CRC-CAV-6-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.240	0.940	0.050	0.050	0.890

⌖	MM	P12 - CRC-CAV-6-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.188	0.887	0.050	0.050	0.837

⌖	MM	P13 - CRC-CAV-7-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.277	0.976	0.050	0.050	0.926

⌖	MM	P14 - CRC-CAV-7-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.280	0.980	0.050	0.050	0.930

⌖	MM	P15 - CRC-CAV-8-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.196	0.896	0.050	0.050	0.846

⌖	MM	P16 - CRC-CAV-8-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.286	0.986	0.050	0.050	0.936

⌖	MM	P17 - CRC-CAV-9-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.253	0.952	0.050	0.050	0.902

⌖	MM	P18 - CRC-CAV-9-2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.828	0.528	0.050	0.050	0.478

⌖	MM	Q1 - CR_SUPPORT_RING_P12				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.454	-0.046	0.080	0.080	0.000

⌖	MM	Q2 - CR_SUPPORT_RING_P23				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	57.502	1.002	0.080	0.080	0.922

⌖	MM	Q3 - CR_SUPPORT_RING_P34				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.798	0.298	0.080	0.080	0.218

⌖	MM	Q4 - CR_SUPPORT_RING_P45				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	57.541	1.041	0.080	0.080	0.961

⌖	MM	Q5 - CR_SUPPORT_RING_P56				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.305	-0.195	0.080	0.080	0.115

⌖	MM	Q6 - CR_SUPPORT_RING_P67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.218	-0.282	0.080	0.080	0.202	
⌖	MM	Q7 - CR_SUPPORT_RING_P78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.245	-0.255	0.080	0.080	0.175	
⌖	MM	Q8 - CR_SUPPORT_RING_P89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	57.041	0.541	0.080	0.080	0.461	
⌖	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	210.171	18.971	0.200	0.200	18.771	
⌖	MM	R2 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	200.000	234.592	34.592	0.200	0.200	34.392	

◎	MM	U1 - CR-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.509	0.509	0.400	0.000	0.109	
◎	MM	U2 - CR-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.224	1.224	0.400	0.000	0.824	
◎	MM	U3 - CRC-CAV-1-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.669	0.669	0.400	0.000	0.269	
◎	MM	U4 - CRC-CAV-1-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.713	0.713	0.400	0.000	0.313	
◎	MM	U5 - CRC-CAV-2-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.551	1.551	0.400	0.000	1.151	
◎	MM	U6 - CRC-CAV-2-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.550	1.550	0.400	0.000	1.150	
◎	MM	U7 - CRC-CAV-3-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.116	2.116	0.400	0.000	1.716	
◎	MM	U8 - CRC-CAV-3-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.182	2.182	0.400	0.000	1.782	
◎	MM	U9 - CRC-CAV-4-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	3.054	3.054	0.400	0.000	2.654	
◎	MM	U10 - CRC-CAV-4-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	3.134	3.134	0.400	0.000	2.734	
◎	MM	U11 - CRC-CAV-5-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.908	2.908	0.400	0.000	2.508	
◎	MM	U12 - CRC-CAV-5-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.907	2.907	0.400	0.000	2.507	
◎	MM	U13 - CRC-CAV-6-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.712	2.712	0.400	0.000	2.312	

◎	MM	U14 - CRC-CAV-6-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.793	2.793	0.400	0.000	2.393	
◎	MM	U15 - CRC-CAV-7-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.230	2.230	0.400	0.000	1.830	
◎	MM	U16 - CRC-CAV-7-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.321	2.321	0.400	0.000	1.921	
◎	MM	U17 - CRC-CAV-8-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.005	2.005	0.400	0.000	1.605	
◎	MM	U18 - CRC-CAV-8-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.942	1.942	0.400	0.000	1.542	
◎	MM	U19 - CRC-CAV-9-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.998	0.998	0.400	0.000	0.598	
◎	MM	U20 - CRC-CAV-9-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.616	0.616	0.400	0.000	0.216	
◎	MM	U21 - CR_SUPPORT_RING_P12 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.160	1.160	0.400	0.000	0.760	
◎	MM	U22 - CR_SUPPORT_RING_P23 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	3.177	3.177	0.400	0.000	2.777	
◎	MM	U23 - CR_SUPPORT_RING_P34 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.271	2.271	0.400	0.000	1.871	
◎	MM	U24 - CR_SUPPORT_RING_P45 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.728	1.728	0.400	0.000	1.328	
◎	MM	U25 - CR_SUPPORT_RING_P56 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	3.390	3.390	0.400	0.000	2.990	
◎	MM	U26 - CR_SUPPORT_RING_P67 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.990	2.990	0.400	0.000	2.590	

◎	MM	U27 - CR_SUPPORT_RING_P78 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	3.019	3.019	0.400	0.000	2.619	
◎	MM	U28 - CR_SUPPORT_RING_P89 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.353	0.353	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	0.697	0.697	0.400	0.000	0.297	

◎	MM	U40 - CRC-VAC-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.499	0.499	0.400	0.000	0.099	
⊥	MM	V1 - PL-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.285	0.285	0.200	0	0.085	
⊥	MM	V2 - PL-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.605	0.605	0.200	0	0.405	