Linac Beam
Position Monitors

			Current ACNET Conversion Volts to mm Xpos = (C1*Xvolts / C2) + C3				
Location	ACNET Name	CONTROLS NAME	C1	C2	C3	Accelerator Beta	MeV
LE Linac	L:BPH2OT	BPH2OT	39.459	10	1.000	0.275	37.5
	L:BPV2OT	BPV2OT	39.430	10	0.700	0.275	37.5
	L:BPHNTF		41.430	10	0.000	0.275	37.5
	L:BPH3IN	BPH3IN	41.490	10	1.500	0.275	37.5
	L:BPV3IN	BPV3IN	42.090	10	0.500	0.275	37.5
	L:BPH3OT	BPH3OT	38.490	10	-0.500	0.375	66.2
	L:BPV3OT	BPV3OT	38.688	10	3.000	0.375	66.2
	L:BPH4IN	BPH4IN	41.430	10	4.000	0.375	66.2
	L:BPV4IN	BPV4IN	42.060	10	2.500	0.375	66.2
	L:UPHNTF		new			0.375	66.2
	L:UPVNTF		new			0.375	66.2
	L:BPH5IN	BPH5IN	41.000	10	-2.500	0.414	92.6
	L:BPV5IN	BPV5IN	41.000	10	-1.000	0.414	92.6
	L:BPH5OT	BPH5OT	38.000	10	2.000	0.457	116.5
	L:BPV5OT	BPV5OT	38.000	10	1.000	0.457	116.5
Transition	L:D02BPH	0-1 H	120.000	10	-32.290	0.457	116.5
	L:D02BPV	0-1 V	120.000	10	-30.290	0.457	116.5
	L:D03BPH	0-2 H	120.000	10	-32.020	0.457	116.5
	L:D03BPV	0-2 V	120.000	10	-29.080	0.457	116.5
	L:D04BPH	0-3 H	120.000	10	-29.780	0.457	116.5
	L:D04BPV	0-3 V	120.000	10	-29.520	0.457	116.5
Module 1	L:D11BPH	M1-1 H	120.000	10	-32.540	0.471	125.1
	L:D11BPV	M1-1 V	120.000	10	-30.980	0.471	125.1
	L:D12BPH	M1-2 H	120.000	10	-31.790	0.483	133.8
	L:D12BPV	M1-2 V	120.000	10	-30.010	0.483	133.8
	L:D13BPH	M1-3 H	120.000	10	-29.260	0.496	142.8
	L:D13BPV	M1-3 V	120.000	10	-31.450	0.496	142.8
Module 2	L:D21BPH	M2-1 H	120.000	10	-28.520	0.521	161.2
	L:D21BPV	M2-1 V	60.000	10	-30.860	0.521	161.2
	L:D22BPV	M2-2 V	120.000	10	-31.550	0.532	170.6
	L:D22BPH	M2-2 H	60.000	10	-28.730	0.532	170.6
	L:D23BPV	M2-3 V	60.000	10	-30.370	0.544	180.2
	L:D23BPH	M2-3 H	120.000	10	-32.540	0.544	180.2
Module 3	L:D31BPH	M3-1 H	120.000	10	-30.940	0.565	199.7
	L:D31BPV	M3-1 V	60.000	10	-30.790	0.565	199.7
	L:D32BPV	M3-2 V	120.000	10	-28.000	0.575	209.5
	L:D32BPH	M3-2 H	60.000	10	-29.570	0.575	209.5
	L:D33BPH	M3-3 H	120.000	10	-29.000	0.585	219.6
	L:D33BPV	M3-3 V	60.000	10	-30.480	0.585	219.6
	L:D34BPH	M3-4 H	60.000	10	-30.000	0.595	229.8

	L:D34BPV	M3-4 V	120.000	10	-29.700	0.595	229.8
Module 4	L:D41BPH	M4-1 H	120.000	10	-32.250	0.604	239.9
	L:D41BPV	M4-1 V	60.000	10	-29.790	0.604	239.9
	L:D42BPV	M4-2 V	120.000	10	-31.270	0.614	250.1
	L:D42BPH	M4-2 H	60.000	10	-29.670	0.614	250.1
	L:D43BPH	M4-3 H	120.000	10	-32.480	0.622	260.1
	L:D43BPV	M4-3 V	60.000	10	-30.410	0.622	260.1
	L:D44BPH	M4-4 H	60.000	10	-30.180	0.631	271.1
	L:D44BPV	M4-4 V	120.000	10	-32.000	0.631	271.1
Module 5	L:D51BPH	M5-1 H	120.000	10	-27.500	0.639	281.5
	L:D51BPV	M5-1 V	60.000	10	-29.790	0.639	281.5
	L:D52BPV	M5-2 V	120.000	10	-28.410	0.647	292.1
	L:D52BPH	M5-2 H	60.000	10	-29.570	0.647	292.1
	L:D53BPH	M5-3 H	120.000	10	-28.000	0.654	302.8
	L:D53BPV	M5-3 V	60.000	10	-30.180	0.654	302.8
	L:D54BPH	M5-4 H	60.000	10	-29.620	0.662	313.6
	L:D54BPV	M5-4 V	120.000	10	-30.330	0.662	313.6
Module 6	L:D61BPH	M6-1 H	120.000	10	-32.500	0.669	324.4
	L:D61BPV	M6-1 V	60.000	10	-29.620	0.669	324.4
	L:D62BPV	M6-2 V	120.000	10	-32.096	0.676	335.2
	L:D62BPH	M6-2 H	60.000	10	-29.120	0.676	335.2
	L:D63BPV	M6-3 V	60.000	10	-30.230	0.683	346.1
	L:D63BPH	M6-3 H	120.000	10	-29.824	0.683	346.1
	L:D64BPH	M6-4 H	60.000	10	-29.540	0.689	357.1
	L:D64BPV	M6-4 V	120.000	10	-30.066	0.689	357.1
Module 7	L:D71BPH	M7-1 H	120.000	10	-29.802	0.696	368.1
	L:D71BPV	M7-1 V	120.000	10	-29.802	0.696	368.1
	L:D72BPH	M7-2 H	120.000	10	-29.934	0.702	379.1
	L:D72BPV	M7-2 V	120.000	10	-30.190	0.702	379.1
	L:D73BPH	M7-3 H	120.000	10	-29.904	0.708	390.2
	L:D73BPV	M7-3 V	120.000	10	-30.016	0.708	390.2
	L:D74BPH	M7-4 H	120.000	10	-30.116	0.714	401.5
	L:D74BPV	M7-4 V	120.000	10	-30.040	0.714	401.5
	L:D75BPH	M7-5 H	152.000	10	-45.200	0.714	401.5
	L:D75BPV	M7-5 V	152.000	10	-45.200	0.714	401.5
400MeV-Dump Area	L:BPH201	BPH201	75.264	10	0.000	0.714	401.5
	L:BPH202	BPH202	74.959	10	0.000	0.714	401.5
	L:BPH203	BPH203	76.667	10	0.000	0.714	401.5
	L:BPH204	BPH204	75.000	10	0.000	0.714	401.5
	L:BPV201	BPV201	75.625	10	-3.000	0.714	401.5
	L:BPV202	BPV202	75.050	10	0.000	0.714	401.5
	L:BPV203	BPV203	77.120	10	0.000	0.714	401.5
	L:BPV204	BPV204	75.000	10	0.000	0.714	401.5

Appendix C: List of 400 MeV and Booster Injection Beam Position Monitors

400 MeV and Booster Injection BPM's

ACNET Name	Controls Name	BPM Sensitivity, dB/mm	Inside Diameter (inches)	Pickup Electrode Length, Inches	Pickup Electrode Radius, Inches	Pickup Electrode Angle, Degrees	Accelerator Beta	Detector Drawing Numbers
B:HPQ1	HP-Q1	1.800	1.50	3.671	0.7300	28	0.714	0230-MB-61354
B:VPQ1	VP-Q1	1.800	1.50	3.671	0.7300	28	0.714	0230-MB-61354 (Linac Style)
B:HPQ2	HP-Q2	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:VPQ2	VP-Q2	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:HPLAM	HP-LAM	0.479	6.13	5.375	3.0625	60	0.714	0390.025-MD-299762
B:VPLAM	VP-LAM	0.479	6.13	5.375	3.0625	60	0.714	0390.025-MD-299762
B:HPQ3	HP-Q3	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:VPQ3	VP-Q3	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:HPQ4	HP-Q4	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:VPQ4	VP-Q4	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:HPQ5	HP-Q5	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:VPQ5	VP-Q5	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:HPQ6	HP-Q6	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:VPQ6	VP-Q6	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:HPQ7	HP-Q7	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:VPQ7	VP-Q7	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:HPQ8	HP-Q8	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:VPQ8	VP-Q8	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:HPQ9	HP-Q9	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:VPQ9	VP-Q9	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:HPQ10	HP-Q10	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:VPQ10	VP-Q10	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:VPQ11	VP-Q11	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:HPQ12	HP-Q12	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:VPQ12	VP-Q12	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021

B:HPDEB	HP-DEB	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:VPDEB	VP-DEB	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:HPQ13	HP-Q13	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:VPQ13	VP-Q13	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:HPQ15	HP-Q15	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:VPQ15	VP-Q15	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:HPQ16	HP-Q16	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:VPQ16	VP-Q16	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:HPQ17	HP-Q17	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:VPQ17	VP-Q17	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:HPINJ	HP-INJ	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:VPINJ	VP-INJ	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:HPFOIL	HP-FOIL	0.436	6.13	5.375	3.0625	60	0.714	0390.025-MD-299593
B:VPFOIL	VP-FOIL	0.436	6.13	5.375	3.0625	60	0.714	0390.025-MD-299593
B:HPH23	HP-H23	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:VPH23	VP-H23	0.476	4.63	6.000	2.3125	60	0.714	0314-MD-299021
B:HPL1D	HP-L1D	0.500	4.62	13.313	2.3120	70	0.714	0320.090-MD-394546
B:VPL1D	VP-L1D	0.500	4.62	13.313	2.3120	70	0.714	0320.090-MD-394546
B:HPS01	HP-S01	0.500	4.62	13.313	2.3120	70	0.714	0320.090-MD-394546
B:VPS01	VP-S01	0.500	4.62	13.313	2.3120	70	0.714	0320.090-MD-394546
B:HPL1U	HP-L1U	0.679	4.56	8.000	1.6875	60	0.714	0320.000-MD-137240
B:VPL1U	VP-L1U	0.679	4.56	8.000	1.6875	60	0.714	0320.000-MD-137240
B:HPS24	HP-S24	0.500	4.62	13.313	2.3120	70	0.714	0320.090-MD-394546
B:VPS24	VP-S24	0.500	4.62	13.313	2.3120	70	0.714	0320.090-MD-394546