

**PEP-II Quadrupole and Sextupole  
Alignment Engineering Group Survey**

**REGION 1 HER**

Summer Downtime 2004  
Final As Built Positions PEP-II Magnets



	BH1AQUMD	0.021	-0.181	0.018
	BH1AQUMW	0.018	-0.168	0.011
	BH1AQU MX	0.028	-0.166	0.017
BH1AQUN	BH1AQUNA	0.038	-0.172	0.009
	BH1AQUND	0.035	-0.172	0.013
	BH1AQUNW	0.026	-0.166	0.009
	BH1AQUNX	0.025	-0.166	0.013
BH1AQUP	BH1AQUPA	0.033	-0.156	0.007
	BH1AQU PD	0.032	-0.152	0.011
	BH1AQU PW	0.036	-0.145	0.004
	BH1AQU PX	0.036	-0.142	0.013
BH1AQUQ	BH1AQUQA	0.063	-0.139	0.013
	BH1AQUQD	0.054	-0.134	0.010
	BH1AQUQW	0.062	-0.144	0.009
	BH1AQUQX	0.051	-0.138	0.006
BH1ASXK	BH1ASXKM	4.348	1.692	15.772
	BH1ASXKM	-4.215	1.757	15.786
	BH1ASXKM	-4.156	-1.903	15.786
	BH1ASXKM	4.233	16.549	-0.226
	BH1ASXKM	-4.409	16.544	0.043
BH1BQUA	BH1BQUAA	0.037	-0.152	0.013
	BH1BQUAA	0.041	-0.156	0.015
	BH1BQUAD	0.041	-0.147	0.019
	BH1BQUAD	0.036	-0.157	0.022
	BH1BQUAW	0.052	-0.145	0.016
	BH1BQUAW	0.046	-0.147	0.020
	BH1BQUAX	0.039	-0.140	0.023
	BH1BQUAX	0.039	-0.144	0.026
BH1BQUB	BH1BQUBA	0.067	-0.160	0.037
	BH1BQUBB	0.069	-0.165	0.027
	BH1BQUBC	0.066	-0.164	0.029
	BH1BQUBD	0.068	-0.162	0.036
BH1BQUC	BH1BQUCA	0.063	-0.157	0.021
	BH1BQUCD	0.061	-0.158	0.020
	BH1BQUCW	0.059	-0.154	0.017
	BH1BQU CX	0.061	-0.153	0.020
BH1BQUD	BH1BQU DA	0.063	-0.163	0.031
	BH1BQU DD	0.062	-0.162	0.029
	BH1BQU DW	0.068	-0.153	0.034
	BH1BQU DX	0.065	-0.151	0.031
BH1BQUE	BH1BQUEA	0.081	-0.146	0.032
	BH1BQU ED	0.077	-0.150	0.029
	BH1BQUEW	0.085	-0.146	0.030
	BH1BQUEX	0.076	-0.145	0.029
BH1BQUF	BH1BQU FA	0.061	-0.149	0.039
	BH1BQU FB	0.063	-0.151	0.024
	BH1BQU FC	0.062	-0.150	0.023
	BH1BQU FD	0.056	-0.151	0.036
BH1BQUG	BH1BQU GA	0.053	-0.138	0.043
	BH1BQU GD	0.053	-0.136	0.041
	BH1BQU GW	0.057	-0.118	0.040
	BH1BQU GX	0.050	-0.122	0.041

BH1BQUH	BH1BQUHA	0.065	-0.144	0.046
	BH1BQUHD	0.058	-0.139	0.045
	BH1BQUHW	0.062	-0.132	0.050
	BH1BQUHX	0.066	-0.131	0.046
BH1BQUI	BH1BQUIA	0.061	-0.148	0.046
	BH1BQUID	0.066	-0.147	0.055
	BH1BQUIW	0.054	-0.129	0.053
	BH1BQUIX	0.059	-0.124	0.058
BH1BQUJ	BH1BQUJA	0.076	-0.142	0.048
	BH1BQUJD	0.076	-0.143	0.048
	BH1BQUJW	0.076	-0.122	0.050
	BH1BQUJX	0.077	-0.121	0.053
BH1BQUK	BH1BQUKA	0.102	-0.141	0.024
	BH1BQUKD	0.099	-0.139	0.029
	BH1BQUKW	0.099	-0.118	0.032
	BH1BQUKX	0.100	-0.124	0.034
BH1BQUL	BH1BQULA	0.089	-0.122	0.035
	BH1BQULD	0.086	-0.123	0.039
	BH1BQULW	0.083	-0.110	0.035
	BH1BQULX	0.084	-0.102	0.042
BH1BQUM	BH1BQUMA	0.082	-0.097	0.066
	BH1BQUMD	0.081	-0.105	0.063
	BH1BQUMW	0.091	-0.083	0.067
	BH1BQUMX	0.084	-0.091	0.063
BH1BQUN	BH1BQUNA	0.091	-0.085	0.069
	BH1BQUND	0.079	-0.093	0.070
	BH1BQUNW	0.083	-0.079	0.066
	BH1BQUNX	0.084	-0.076	0.073
BH1BQUP				
BH1BSQM	BH1BSQMA	0.030	-0.082	-0.135
	BH1BSQMB	0.033	-0.085	0.064
	BH1BSQMC	0.029	-0.098	0.061
	BH1BSQMD	0.033	-0.097	0.059
BH1BSQP	BH1BSQPA	0.161	-0.052	0.062
	BH1BSQPB	0.156	-0.058	0.059
	BH1BSQPC	0.156	-0.057	0.061
	BH1BSQPD	0.159	-0.058	0.061
BH1BSXA	BH1BSXAM	4.281	1.525	15.778
	BH1BSXAM	-4.010	1.606	15.771
	BH1BSXAM	-4.019	-1.857	15.770
	BH1BSXAM	3.313	16.581	-0.114
	BH1BSXAM	-3.149	16.534	0.052
BH1BSXD	BH1BSXDM	4.302	1.896	15.706
	BH1BSXDM	-4.070	1.845	15.716
	BH1BSXDM	-4.093	-1.742	15.707
	BH1BSXDM	3.210	16.701	0.238
	BH1BSXDM	-3.202	16.685	0.112
BH1BSXJ	BH1BSXJM	4.420	2.209	15.727
	BH1BSXJM	-3.849	1.997	15.734

BH1BSXJM	-3.881	-1.799	15.734
BH1BSXJM	4.356	16.746	-0.107
BH1BSXJM	-4.099	16.737	-0.011

**PEP-II Quadrupole and Sextupole  
Alignment Engineering Group Survey**

**REGION 1 LER**

Summer Downtime 2004  
Final As Built Positions PEP-II Magnets

Magnet Name	Target Name	Z	X	Y
BL1AQUA	BL1AQUAA	-0.048	-0.072	0.026
	BL1AQUAB	-0.049	-0.065	0.023
	BL1AQUAC	-0.047	-0.076	0.026
BL1AQUB	BL1AQUBA	-0.011	-0.065	0.015
	BL1AQUBB	-0.011	-0.068	0.014
	BL1AQUBC	-0.010	-0.076	0.017
BL1AQUC	BL1AQUCA	-0.008	-0.061	-0.002
	BL1AQUCB	-0.009	-0.059	-0.001
	BL1AQUCC	-0.010	-0.066	-0.001
BL1AQUD	BL1AQUDA	-0.023	-0.074	-0.005
	BL1AQUDB	-0.021	-0.078	-0.009
	BL1AQUDC	-0.023	-0.082	-0.004
BL1AQUE	BL1AQUEA	-0.027	-0.075	-0.012
	BL1AQUEB	-0.013	-0.073	-0.014
	BL1AQUEC	-0.019	-0.083	-0.009
BL1AQUF	BL1AQUFA	-0.021	-0.080	0.000
	BL1AQUFB	-0.022	-0.082	-0.001
	BL1AQUFC	-0.026	-0.086	0.001
BL1AQUG	BL1AQUGA	-0.003	-0.077	0.015
	BL1AQUGB	-0.011	-0.077	0.016
	BL1AQUGC	-0.009	-0.082	0.015
BL1AQUH	BL1AQUHA	-0.016	-0.088	0.021
	BL1AQUHB	-0.013	-0.086	0.020
	BL1AQUHC	-0.022	-0.085	0.022
BL1AQUI	BL1AQUIA	0.022	-0.062	0.019
	BL1AQUIB	0.035	-0.071	0.015
	BL1AQUIC	0.025	-0.075	0.018
BL1AQUJ	BL1AQUJA	0.023	-0.065	0.000
	BL1AQUJB	0.030	-0.070	0.000
	BL1AQUJC	0.025	-0.069	0.004
BL1AQUK	BL1AQUKA	-0.010	-0.076	0.009
	BL1AQUKB	-0.006	-0.079	0.007
	BL1AQUKC	-0.010	-0.078	0.010
BL1AQL	BL1AQLA	0.007	-0.067	0.017
	BL1AQLB	0.014	-0.067	0.011
	BL1AQLC	0.012	-0.075	0.017
BL1AQU M	BL1AQU MA	0.008	-0.069	0.016
	BL1AQU MB	0.002	-0.066	0.013
	BL1AQU MC	0.003	-0.079	0.018
BL1AQU N	BL1AQU NA	0.004	-0.054	0.008
	BL1AQU NB	0.009	-0.061	0.007
	BL1AQU NC	0.008	-0.063	0.010
BL1AQU P	BL1AQU PA	-0.014	-0.052	0.009
	BL1AQU PB	-0.007	-0.044	0.026
	BL1AQU PC	-0.024	-0.058	0.019
BL1AQU Q	BL1AQU QA	-0.002	-0.051	0.013
	BL1AQU QB	0.002	-0.051	0.010
	BL1AQU QC	0.001	-0.056	0.015
BL1ASXF	BL1ASXF3	-0.128	-0.081	0.001

	BL1ASXF4	-0.125	-0.083	0.005
	BL1ASXF5	-0.132	-0.089	0.000
	BL1ASXF7	-0.127	-0.085	-0.002
BL1ASXJ	BL1ASXJ3	-0.127	-0.068	0.000
	BL1ASXJ4	-0.119	-0.071	0.010
	BL1ASXJ5	-0.119	-0.068	0.006
	BL1ASXJ7	-0.117	-0.072	0.003
BL1ASXK	BL1ASXK3	-0.011	-0.071	0.013
	BL1ASXK4	-0.010	-0.070	0.012
	BL1ASXK5	-0.021	-0.076	0.010
	BL1ASXK7	-0.020	-0.082	0.010
BL1ASXP	BL1ASXP3	-0.041	-0.055	0.013
	BL1ASXP4	-0.039	-0.051	0.009
	BL1ASXP5	-0.041	-0.062	0.014
	BL1ASXP7	-0.038	-0.056	0.010
BL1ASXQ	BL1ASXQ3	-0.030	-0.061	0.016
	BL1ASXQ4	-0.028	-0.063	0.011
	BL1ASXQ5	-0.049	-0.064	0.017
	BL1ASXQ7	-0.041	-0.068	0.012
BL1BQUA	BL1BQUAA	-0.016	-0.038	0.007
	BL1BQUAB	-0.006	-0.045	0.011
	BL1BQUAC	-0.013	-0.042	0.012
BL1BQUB	BL1BQUBA	-0.005	-0.062	0.018
	BL1BQUBB	0.034	-0.051	0.021
	BL1BQUBC	0.026	-0.058	0.024
BL1BQUC	BL1BQUCA	0.005	-0.049	0.016
	BL1BQUCB	0.010	-0.049	0.014
	BL1BQUCC	0.007	-0.053	0.017
BL1BQUD	BL1BQUDA	0.062	-0.044	0.012
	BL1BQUDB	0.067	-0.048	0.016
	BL1BQUDC	0.060	-0.048	0.018
BL1BQUE	BL1BQUEA	0.051	-0.058	0.016
	BL1BQUEB	0.062	-0.057	0.021
	BL1BQUEC	0.049	-0.058	0.024
BL1BQUF	BL1BQUFA	0.032	-0.028	0.016
	BL1BQUFB	0.038	-0.031	0.016
	BL1BQUFC	0.027	-0.035	0.019
BL1BQUG	BL1BQUGA	0.019	-0.039	0.026
	BL1BQUGB	0.024	-0.039	0.024
	BL1BQUGC	0.021	-0.049	0.028
BL1BQUH	BL1BQUHA	0.048	-0.039	0.017
	BL1BQUHB	0.050	-0.042	0.019
	BL1BQUHC	0.044	-0.043	0.020
BL1BQUI	BL1BQUIA	0.011	-0.043	0.026
	BL1BQUIB	0.012	-0.039	0.028
	BL1BQUIC	0.011	-0.048	0.030
BL1BQUJ	BL1BQUJA	0.011	-0.040	0.023
	BL1BQUJB	0.010	-0.040	0.022
	BL1BQUJC	0.012	-0.045	0.025
BL1BQUK	BL1BQUKA	0.044	-0.037	0.019
	BL1BQUKB	0.050	-0.046	0.019
	BL1BQUKC	0.051	-0.054	0.022

BL1BQUL	BL1BQULA	0.030	-0.030	0.006
	BL1BQULB	0.032	-0.035	0.010
	BL1BQULC	0.032	-0.042	0.011
BL1BQUM	BL1BQUMA	0.019	-0.021	0.015
	BL1BQUMB	0.020	-0.016	0.022
	BL1BQUMC	0.013	-0.021	0.022
BL1BQUN	BL1BQUNA	0.044	-0.018	0.022
	BL1BQUNB	0.044	-0.021	0.028
	BL1BQUNC	0.040	-0.020	0.027
BL1BQUP	BL1BQUPA	0.020	-0.003	0.023
	BL1BQUPB	0.028	-0.008	0.027
	BL1BQUPC	0.022	-0.006	0.028
BL1BQUQ				
BL1BSKG				
BL1BSKK				
BL1BSXD	BL1BSXD3	0.052	-0.046	0.013
	BL1BSXD4	0.052	-0.049	0.005
	BL1BSXD5	0.051	-0.047	0.017
	BL1BSXD6	0.056	-0.068	0.018
	BL1BSXD7	0.000	0.000	0.000
BL1BSXG	BL1BSXG3	-0.093	-0.046	0.026
	BL1BSXG4	-0.092	-0.037	0.021
	BL1BSXG5	-0.092	-0.038	0.014
	BL1BSXG6	0.000	0.000	0.000
	BL1BSXG7	-0.091	-0.056	0.012
BL1BSXK	BL1BSXK3	-0.109	-0.058	0.012
	BL1BSXK4	-0.116	-0.057	0.010
	BL1BSXK5	-0.089	-0.076	0.004
	BL1BSXK6	6.034	-0.076	-0.001