

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

**REGION 5 HER**

Summer Downtime 2004  
Final As Built Positions PEP-II Magnets



	BH5AQLD	-0.094	-0.082	-0.030
	BH5AQLW	-0.092	-0.064	-0.028
	BH5AQLX	-0.094	-0.062	-0.025
BH5AQUM	BH5AQUA	-0.059	-0.083	-0.029
	BH5AQUA	-0.060	-0.084	-0.030
	BH5AQUA	-0.066	-0.069	-0.023
	BH5AQUA	-0.064	-0.070	-0.026
BH5AQUN	BH5AQUA	-0.071	-0.110	-0.007
	BH5AQUA	-0.073	-0.108	-0.007
	BH5AQUA	-0.073	-0.098	-0.008
	BH5AQUA	-0.083	-0.099	-0.008
BH5AQUP	BH5AQUA	-0.061	-0.109	-0.008
	BH5AQUA	-0.056	-0.114	-0.007
	BH5AQUA	-0.072	-0.094	-0.006
	BH5AQUA	-0.066	-0.099	-0.006
BH5AQUQ	BH5AQUA	-0.082	-0.101	-0.012
	BH5AQUA	-0.083	-0.104	-0.012
	BH5AQUA	-0.084	-0.085	-0.013
	BH5AQUA	-0.083	-0.083	-0.009
BH5ASXD	BH5ASXD	4.272	0.775	15.749
	BH5ASXD	-4.098	1.384	15.762
	BH5ASXD	-4.092	-1.401	15.763
	BH5ASXD	3.251	16.723	-0.133
	BH5ASXD	-3.167	16.727	-0.568
BH5ASXE	BH5ASXD	4.054	1.242	15.739
	BH5ASXD	-4.269	1.281	15.724
	BH5ASXD	-4.222	-0.999	15.719
	BH5ASXD	4.176	16.726	0.333
	BH5ASXD	-4.183	16.738	0.313
BH5ASXF	BH5ASXD	4.125	1.622	15.731
	BH5ASXD	-4.249	1.294	15.746
	BH5ASXD	-4.181	-1.811	15.737
	BH5ASXD	4.062	16.753	0.320
	BH5ASXD	-4.354	16.697	0.425
BH5ASXG	BH5ASXD	4.202	1.916	15.741
	BH5ASXD	-4.300	1.788	15.762
	BH5ASXD	-4.240	-1.768	15.726
	BH5ASXD	4.213	16.709	-0.235
	BH5ASXD	-4.302	16.689	0.196
BH5ASXH	BH5ASXD	4.149	1.706	15.761
	BH5ASXD	-4.162	1.836	15.767
	BH5ASXD	-4.205	-2.009	15.768
	BH5ASXD	4.176	16.709	-0.209
	BH5ASXD	-4.175	16.689	0.129
BH5ASXI	BH5ASXD	4.124	1.780	15.748
	BH5ASXD	-4.313	1.703	15.739
	BH5ASXD	-4.245	-1.050	15.717
	BH5ASXD	4.173	16.700	-0.139
	BH5ASXD	-4.261	16.692	-0.114
BH5ASXJ	BH5ASXD	4.302	2.102	15.711
	BH5ASXD	-4.553	2.063	15.718
	BH5ASXD	-4.107	-2.038	15.738

	BH5ASXJM	3.238	16.687	-0.501
	BH5ASXJM	-3.205	16.711	-0.027
BH5ASXK	BH5ASXKM	4.281	1.568	15.724
	BH5ASXKM	-4.240	1.663	15.716
	BH5ASXKM	-4.095	-2.376	15.727
	BH5ASXKM	3.291	16.649	0.314
	BH5ASXKM	-3.426	16.658	0.009
BH5ASXL	BH5ASXLM	4.301	1.956	15.747
	BH5ASXLM	-4.199	2.038	15.749
	BH5ASXLM	-4.350	-2.129	15.746
	BH5ASXLM	3.255	16.645	-0.512
	BH5ASXLM	-3.380	16.648	0.060
BH5ASXM	BH5ASXMM	4.284	1.856	15.755
	BH5ASXMM	-4.164	2.120	15.752
	BH5ASXMM	-4.180	-1.917	15.764
	BH5ASXMM	3.305	16.620	0.403
	BH5ASXMM	-3.261	16.647	-0.165
BH5ASXN	BH5ASXNM	4.218	1.098	15.749
	BH5ASXNM	-4.179	1.364	15.745
	BH5ASXNM	-4.079	-1.366	15.741
	BH5ASXNM	4.197	16.613	-0.294
	BH5ASXNM	-4.136	16.644	-0.606
BH5ASXP	BH5ASXPM	4.262	1.249	15.754
	BH5ASXPM	-4.136	1.283	15.749
	BH5ASXPM	-4.101	-1.839	15.745
	BH5ASXPM	3.131	16.645	0.392
	BH5ASXPM	-3.408	16.565	0.176
BH5ASXQ	BH5ASXQM	4.261	1.480	15.752
	BH5ASXQM	-4.174	1.586	15.731
	BH5ASXQM	-4.200	-1.709	15.734
	BH5ASXQM	4.250	16.623	-0.510
	BH5ASXQM	-4.074	16.645	-0.385
BH5BQUA	BH5BQUAA	-0.084	-0.098	-0.012
	BH5BQUAD	-0.076	-0.103	-0.013
	BH5BQUAW	-0.081	-0.084	-0.013
	BH5BQUAX	-0.077	-0.088	-0.010
BH5BQUB	BH5BQUBA	-0.044	-0.113	-0.012
	BH5BQUBD	-0.049	-0.115	-0.008
	BH5BQUBW	-0.054	-0.103	-0.012
	BH5BQUBX	-0.061	-0.105	-0.009
BH5BQUC	BH5BQUCA	-0.039	-0.122	-0.009
	BH5BQUCD	-0.043	-0.122	-0.016
	BH5BQUCW	-0.027	-0.107	-0.013
	BH5BQUCX	-0.030	-0.111	-0.012
BH5BQUD	BH5BQUDA	-0.076	-0.146	-0.034
	BH5BQUDD	-0.077	-0.143	-0.028
	BH5BQUDW	-0.079	-0.136	-0.037
	BH5BQUDX	-0.083	-0.114	-0.033
BH5BQUE	BH5BQUEA	-0.085	-0.146	-0.027
	BH5BQUED	-0.082	-0.152	-0.025
	BH5BQUEW	-0.078	-0.133	-0.029
	BH5BQUEX	-0.076	-0.134	-0.024

BH5BQUF	BH5BQUFA	-0.060	-0.144	0.009
	BH5BQUFD	-0.061	-0.137	-0.028
	BH5BQUFW	-0.062	-0.128	-0.028
	BH5BQUFX	-0.059	-0.127	-0.025

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

**REGION 5 LER**

Summer Downtime 2004  
Final As Built Positions PEP-II Magnets

Magnet Name	Target Name	Z	X	Y	
BL5AQUA	BL5AQUAA	-0.030	-0.063	0.025	
	BL5AQUAB	-0.030	-0.061	0.026	
	BL5AQUAC	-0.027	-0.068	0.025	
BL5AQUB	BL5AQUBA	-0.027	-0.069	0.018	
	BL5AQUBB	-0.025	-0.065	0.020	
	BL5AQUBC	-0.034	-0.066	0.022	
BL5AQUC	BL5AQUCA	-0.047	-0.068	0.005	
	BL5AQUCB	-0.048	-0.068	0.003	
	BL5AQUCC	-0.045	-0.069	0.006	
BL5AQU D	BL5AQU DA	-0.048	-0.074	0.009	
	BL5AQU DB	-0.046	-0.068	0.010	
	BL5AQU DC	-0.048	-0.076	0.011	
BL5AQUE	BL5AQUEA	-0.043	-0.066	0.005	
	BL5AQUEB	-0.047	-0.067	0.007	
	BL5AQUEC	-0.050	-0.074	0.005	
BL5AQUF	BL5AQUFA	-0.027	-0.070	-0.008	
	BL5AQUFB	-0.029	-0.067	-0.007	
	BL5AQUFC	-0.032	-0.071	-0.005	
BL5AQUG	BL5AQUGA	-0.033	-0.068	-0.013	
	BL5AQUGB	-0.026	-0.066	-0.009	
	BL5AQUGC	-0.040	-0.068	-0.012	
BL5AQUH	BL5AQUHA	-0.026	-0.065	-0.004	
	BL5AQUHB	-0.024	-0.060	-0.007	
	BL5AQUHC	-0.026	-0.061	-0.005	
BL5AQUI	BL5AQUIA	-0.032	-0.071	-0.005	
	BL5AQUIB	-0.036	-0.068	-0.004	
	BL5AQUIC	-0.037	-0.075	-0.004	
BL5AQUJ	BL5AQUJA	-0.012	-0.070	-0.017	
	BL5AQUJB	-0.018	-0.074	-0.017	
	BL5AQUJC	-0.019	-0.074	-0.016	
BL5AQUK	BL5AQUKA	-0.047	-0.076	-0.013	
	BL5AQUKA	-0.048	-0.082	-0.021	
	BL5AQUKB	-0.044	-0.077	-0.014	
	BL5AQUKB	-0.045	-0.084	-0.023	
	BL5AQUKC	-0.044	-0.081	-0.012	
BL5AQUK	BL5AQUKC	-0.046	-0.087	-0.020	
	BL5AQU L	BL5AQU LA	-0.029	-0.075	-0.023
	BL5AQU LB	-0.036	-0.079	-0.020	
BL5AQU L	BL5AQU LC	-0.034	-0.078	-0.019	
	BL5AQU M	BL5AQU MA	-0.010	-0.086	-0.014
	BL5AQU MB	-0.009	-0.083	-0.011	
BL5AQU M	BL5AQU MC	-0.014	-0.087	-0.013	
	BL5AQU N	BL5AQU NA	-0.015	-0.097	0.008
	BL5AQU NB	-0.018	-0.100	0.005	
BL5AQU N	BL5AQU NC	-0.013	-0.108	0.010	
	BL5AQU P	BL5AQU PA	-0.035	-0.098	0.003
	BL5AQU PB	-0.028	-0.104	0.005	
BL5AQU P	BL5AQU PC	-0.036	-0.105	0.005	
	BL5AQU Q	BL5AQU QA	-0.045	-0.068	0.010

	BL5AQUQB	-0.044	-0.065	0.012
	BL5AQUQC	-0.049	-0.076	0.013
BL5ASXK	BL5ASXK3	-0.150	-0.085	-0.029
	BL5ASXK4	-0.152	-0.082	-0.033
	BL5ASXK5	-0.153	-0.089	-0.023
	BL5ASXK7	-0.153	-0.086	-0.025
BL5ASXP	BL5ASXP3	-0.098	-0.101	0.002
	BL5ASXP4	-0.104	-0.100	-0.001
	BL5ASXP5	-0.093	-0.124	-0.005
	BL5ASXP6	-0.102	-0.102	-0.002
BL5BQUA	BL5BQUAA	-0.025	-0.055	0.000
	BL5BQUAA	0.000	0.000	0.000
	BL5BQUAB	-0.021	-0.058	-0.001
	BL5BQUAC	-0.026	-0.056	0.002
BL5BQUB	BL5BQUBA	-0.025	-0.065	0.008
	BL5BQUBB	-0.020	-0.054	0.002
	BL5BQUBC	-0.020	-0.067	0.006
BL5BQUC	BL5BQUCA	-0.033	-0.060	0.004
	BL5BQUCB	-0.030	-0.069	0.008
	BL5BQUCC	-0.038	-0.070	0.008
BL5BQUD	BL5BQUDA	-0.007	-0.061	-0.014
	BL5BQUDB	0.000	-0.061	-0.016
	BL5BQUDC	-0.005	-0.066	-0.014
BL5BQUE	BL5BQUEA	-0.028	0.062	0.143
	BL5BQUEA	-0.004	-0.067	-0.016
	BL5BQUEB	-0.026	-0.103	-0.028
	BL5BQUEB	0.003	-0.073	-0.011
	BL5BQUEC	0.000	0.000	0.000
	BL5BQUEC	-0.009	-0.067	-0.013
BL5BQUF	BL5BQUFA	-0.036	-0.052	-0.020
	BL5BQUFB	-0.032	-0.052	-0.015
	BL5BQUFC	-0.041	-0.050	-0.015
BL5BQUG	BL5BQUGA	-0.043	-0.061	-0.016
	BL5BQUGB	-0.040	-0.058	-0.018
	BL5BQUGC	-0.038	-0.063	-0.015
BL5BQUH	BL5BQUHA	-0.036	-0.053	-0.015
	BL5BQUHB	-0.027	-0.050	-0.015
	BL5BQUHC	-0.034	-0.053	-0.011
BL5BQUI	BL5BQUIA	0.005	-0.060	0.000
	BL5BQUIB	0.016	-0.066	-0.002
	BL5BQUIC	0.009	-0.069	0.000
BL5BQUJ	BL5BQUJA	-0.002	-0.064	-0.017
	BL5BQUJB	0.007	-0.056	-0.014
	BL5BQUJC	-0.006	-0.065	-0.013
BL5BQUK	BL5BQUKA	0.000	-0.048	-0.014
	BL5BQUKB	0.005	-0.055	-0.011
	BL5BQUKC	-0.002	-0.052	-0.012
BL5BQUL	BL5BQULA	0.015	-0.035	-0.006
	BL5BQULB	0.013	-0.035	0.000
	BL5BQULC	0.008	-0.040	-0.001
BL5BQUM	BL5BQUMA	-0.031	-0.037	0.000
	BL5BQUMB	-0.032	-0.035	-0.001

	BL5BQUMC	-0.036	-0.037	0.000
BL5BQUN	BL5BQUNA	0.000	0.000	0.000
	BL5BQUNA	0.011	-0.046	0.000
	BL5BQUNB	0.000	0.000	0.000
	BL5BQUNB	0.015	-0.044	0.003
	BL5BQUNC	0.000	0.000	0.000
	BL5BQUNC	0.011	-0.050	0.001
BL5BQUP	BL5BQUPA	-0.025	-0.034	0.008
	BL5BQUPB	-0.028	-0.034	0.006
	BL5BQUPC	-0.033	-0.042	0.010
BL5BQUQ	BL5BQUQA	-0.025	-0.036	-0.002
	BL5BQUQB	-0.022	-0.033	0.001
	BL5BQUQC	-0.028	-0.036	0.000
BL5BSDA				
BL5BSXE	BL5BSXE3	0.000	0.000	0.000
	BL5BSXE3	0.050	-0.072	-0.021
	BL5BSXE4	0.000	0.000	0.000
	BL5BSXE4	0.046	-0.069	-0.029
	BL5BSXE5	0.000	0.000	0.000
	BL5BSXE5	0.042	-0.068	-0.016
	BL5BSXE7	0.000	0.000	0.000
BL5BSXE7	0.045	-0.092	-0.016	
BL5BSXG	BL5BSXG3	0.080	-0.055	-0.017
	BL5BSXG4	0.075	-0.049	-0.018
	BL5BSXG5	0.084	-0.063	-0.017
	BL5BSXG7	0.080	-0.064	-0.017
BL5BSXK	BL5BSXK3	0.081	-0.045	-0.014
	BL5BSXK4	0.081	-0.043	-0.015
	BL5BSXK5	0.085	-0.051	-0.014
	BL5BSXK7	0.088	-0.057	-0.017
BL5BSXM	BL5BSXM3	-0.105	-0.047	-0.002
	BL5BSXM4	-0.111	-0.045	-0.009
	BL5BSXM5	-0.114	-0.054	-0.004
	BL5BSXM6	-0.113	-0.048	-0.008