

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

**REGION 12 HER**

Summer Downtime 2004  
Final As Built Positions PEP-II Magnets

Magnet Name	Target Name	Z	X	Y
BHBAQUA	BHBAQUAA	-0.063	-0.035	0.022
	BHBAQUAD	-0.065	-0.035	0.032
	BHBAQUAW	-0.083	-0.023	0.022
	BHBAQUAX	-0.071	-0.022	0.029
BHBAQUB	BHBAQUBA	-0.062	-0.013	0.000
	BHBAQUBD	-0.065	-0.011	0.004
	BHBAQUBW	-0.065	-0.013	0.002
	BHBAQUBX	-0.070	-0.013	0.000
BHBAQUC	BHBAQUCA	-0.073	-0.034	0.022
	BHBAQUCD	-0.059	-0.048	0.024
	BHBAQUCW	-0.074	-0.030	0.027
	BHBAQUCX	-0.073	-0.030	0.028
BHBAQUD	BHBAQUDA	-0.053	-0.017	0.018
	BHBAQUDD	-0.056	-0.014	0.023
	BHBAQUDW	-0.057	-0.015	0.017
	BHBAQUDX	-0.066	-0.017	0.016
BHBAQUE	BHBAQUEA	-0.055	0.000	0.022
	BHBAQUED	-0.062	-0.004	0.032
	BHBAQUEW	-0.061	0.004	0.020
	BHBAQUEX	-0.073	-0.004	0.027
BHBAQUF	BHBAQUFA	-0.053	-0.017	0.017
	BHBAQUFD	-0.047	-0.020	0.027
	BHBAQUFW	-0.054	-0.019	0.015
	BHBAQUFX	-0.055	-0.016	0.024
BHBAQUG	BHBAQUGA	-0.033	-0.031	0.020
	BHBAQUGD	-0.045	-0.036	0.024
	BHBAQUGW	-0.044	-0.028	0.018
	BHBAQUGX	-0.047	-0.031	0.023
BHBAQUH	BHBAQUHA	-0.015	-0.021	0.020
	BHBAQUHD	-0.017	-0.025	0.026
	BHBAQUHW	-0.015	-0.012	0.022
	BHBAQUHX	-0.016	-0.014	0.027
BHBAQUI	BHBAQUIA	-0.016	-0.023	0.005
	BHBAQUID	-0.015	-0.023	0.006
	BHBAQUIW	-0.018	-0.020	0.004
	BHBAQUIX	-0.018	-0.020	0.005
BHBAQUJ	BHBAQUJA	267.359	2.414	24.714
	BHBAQUJA	-0.044	-0.026	0.000
	BHBAQUJB	0.000	0.000	0.000
	BHBAQUJC	278.481	-0.032	-0.037
	BHBAQUJC	-0.047	-0.021	0.005
	BHBAQUJD	0.000	0.000	0.000
	BHBAQUJD	-0.046	-0.021	0.011
	BHBAQUJW	-0.041	-0.029	-0.002
BHBAQUJX	0.000	0.000	0.000	
BHBAQUK	BHBAQUKA	-22.436	-0.088	-0.039
	BHBAQUKC	-0.041	-0.021	-0.034
	BHBAQUKD	-0.049	-0.016	-0.028
BHBBQUA	BHBBQUAA	-0.035	-0.045	-0.038

	BHBBQUAD	-0.040	-0.043	-0.043
	BHBBQUAW	-0.030	-0.047	-0.038
	BHBBQUAX	-0.041	-0.049	-0.044
BHBBQUB	BHBBQUBA	-0.050	-0.056	0.001
	BHBBQUBD	-0.047	-0.064	-0.006
	BHBBQUBW	-0.048	-0.059	-0.001
	BHBBQUBX	-0.055	-0.066	-0.005
BHBBQUC	BHBBQUCA	-0.027	-0.060	-0.028
	BHBBQUCD	-0.028	-0.064	-0.037
	BHBBQUCW	-0.020	-0.062	-0.020
	BHBBQUCX	-0.023	-0.069	-0.036
BHBBQUD	BHBBQUDA	-0.024	-0.066	-0.059
	BHBBQUDD	-0.023	-0.067	-0.042
	BHBBQUDW	-0.028	-0.067	-0.052
	BHBBQUDX	-0.032	-0.065	-0.041
BHBBQUE	BHBBQUEA	-0.034	-0.088	-0.032
	BHBBQUED	-0.035	-0.091	-0.033
	BHBBQUEW	-0.034	-0.080	-0.031
	BHBBQUEX	-0.033	-0.081	-0.031
BHBBQUF	BHBBQUFA	-0.009	-0.104	-0.033
	BHBBQUFD	-0.013	-0.104	-0.020
	BHBBQUFW	-0.021	-0.098	-0.033
	BHBBQUFX	-0.020	-0.096	-0.018
BHBBQUG	BHBBQUGA	-0.051	-0.104	-0.010
	BHBBQUGD	-0.059	-0.101	-0.015
	BHBBQUGW	-0.048	-0.098	-0.011
	BHBBQUGX	-0.048	-0.094	-0.016
BHBBQUH	BHBBQUHA	-0.062	-0.132	-0.012
	BHBBQUHD	-0.057	-0.124	-0.018
	BHBBQUHW	-0.053	-0.126	-0.014
	BHBBQUHX	-0.060	-0.120	-0.015
BHBBQUI	BHBBQUIA	-0.048	-0.134	-0.014
	BHBBQUID	-0.056	-0.145	-0.012
	BHBBQUIW	-0.049	-0.116	-0.012
	BHBBQUIX	-0.056	-0.121	-0.013
BHBBQUJ	BHBBQUJA	-0.061	-0.147	-0.016
	BHBBQUJB	-0.060	-0.147	-0.025
	BHBBQUJC	-0.057	-0.151	-0.026
	BHBBQUJD	-0.061	-0.147	-0.017

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**REGION 12 LER**

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Magnet Name	Target Name	Z	X	Y
BLBAQUA	BLBAQUAA	0.031	-0.038	0.002
	BLBAQUAB	0.031	-0.040	0.001
	BLBAQUAC	0.034	-0.045	0.001
BLBAQUB	BLBAQUBA	0.027	-0.057	0.011
	BLBAQUBB	0.023	-0.056	0.000
	BLBAQUBC	0.033	-0.056	0.005
BLBAQUC	BLBAQUCA	-0.005	-0.045	0.011
	BLBAQUCB	-0.010	-0.048	0.012
	BLBAQUCC	-0.003	-0.047	0.012
BLBAQUD	BLBAQUDA	-0.033	-0.043	0.008
	BLBAQUDB	-0.037	-0.043	0.004
	BLBAQUDC	-0.028	-0.043	0.006
BLBAQUE	BLBAQUEA	-0.025	-0.053	0.016
	BLBAQUEB	-0.032	-0.050	0.013
	BLBAQUEC	-0.031	-0.051	0.016
BLBAQUF	BLBAQUFA	0.009	-0.052	0.021
	BLBAQUFB	0.011	-0.058	0.016
	BLBAQUFC	0.011	-0.058	0.019
BLBAQUG	BLBAQUGA	0.020	-0.027	0.033
	BLBAQUGB	0.035	-0.024	0.034
	BLBAQUGC	0.036	-0.026	0.038
BLBAQUH	BLBAQUHA	0.024	-0.001	0.011
	BLBAQUHB	0.024	-0.006	0.007
	BLBAQUHC	0.035	0.004	0.010
BLBAQUI	BLBAQUIA	-0.037	-0.010	0.020
	BLBAQUIB	-0.046	-0.007	0.018
	BLBAQUIC	-0.034	-0.012	0.020
BLBAQUJ	BLBAQUJA	-0.005	-0.011	-0.004
	BLBAQUJB	-0.008	-0.006	-0.007
	BLBAQUJC	-0.011	-0.007	-0.006
BLBASKA	BLBASKAA	0.084	-0.029	-0.003
	BLBASKAB	0.057	-0.032	-0.002
	BLBASKAC	0.059	-0.026	0.000
	BLBASKAD	0.049	-0.018	-0.001
BLBBQUA	BLBBQUAA	-0.030	-0.007	-0.011
	BLBBQUAB	-0.023	-0.010	-0.011
	BLBBQUAC	-0.027	-0.004	-0.010
BLBBQUB	BLBBQUBA	-0.021	-0.029	0.031
	BLBBQUBB	-0.025	-0.029	0.029
	BLBBQUBC	-0.020	-0.030	0.032
BLBBQUC	BLBBQUCA	-0.044	-0.019	-0.009
	BLBBQUCB	-0.045	-0.014	-0.011
	BLBBQUCC	-0.042	-0.017	-0.006
BLBBQUD	BLBBQUDA	-0.015	-0.017	-0.023
	BLBBQUDB	-0.019	-0.015	-0.030
	BLBBQUDC	-0.013	-0.017	-0.026
BLBBQUE	BLBBQUEA	-0.004	-0.047	-0.014
	BLBBQUEB	-0.001	-0.046	-0.013
	BLBBQUEC	0.003	-0.052	-0.012

BLBBQUF	BLBBQUFA	-0.020	-0.036	0.004
	BLBBQUFB	-0.027	-0.030	-0.002
	BLBBQUFC	-0.020	-0.038	0.002
BLBBQUG	BLBBQUGA	-0.033	-0.040	0.004
	BLBBQUGB	-0.028	-0.036	0.003
	BLBBQUGC	-0.031	-0.044	0.003
BLBBQUH	BLBBQUHA	-0.017	-0.049	0.005
	BLBBQUHB	-0.021	-0.050	0.000
	BLBBQUHC	-0.023	-0.051	0.003
BLBBQUI	BLBBQUIA	0.021	-0.050	-0.016
	BLBBQUIB	0.026	-0.044	-0.022
	BLBBQUIC	0.025	-0.042	-0.016
BLBBSKI	BLBBSKIA	0.186	-0.068	0.007
	BLBBSKIB	0.182	-0.067	0.006
	BLBBSKIC	0.179	-0.062	0.002
	BLBBSKID	0.186	-0.064	0.006