SNS MAGNETS
PARAMETERS
EXPANDED LIST

COOLING WATER TEMP		
INLET	87	DEG F
OUTLET	112	DEG F
DELTA	25	DEG F

	UNITS USED FOR	Dipole	Quad	Sextupole	Octupole
Note 1	Gradient	NA	KG/CM	KG/CM^2	KG/CM^3
Note 2	Integr. Field / Grad	KG*CM	KG	KG/CM	KG/CM^2

REVISION: 2001 - DEC - 20

LATTICE MAGNETS NOMENCLATURE						POWER SUPPLY		MAGNET PARAMETERS									OPERATING PARAMETERS FOR 1.0 GeV							MAX PWR SUPPLY OPER SET-POINT			
MAGNET TYPE	LOCATION - FUNCTION	LATTICE NAME	ASSEMBLY NAME	DEVICE or FUNCTION	MAGNET DESIGNATION	SYS NAME	DVC NAME	Core Length (CM)	Gap or Aperture (CM)	Good Field Region Horiz (CM)	Vert (CM)	Magnetic Length (CM)	Coils per Pole (TURNS)	Magnet Coil Resistance (OHMS)	Self - Inductance (MicroH)	Magnet Weight (LBS)	Dipole Field (KG)	Gradient (see Note 1)	Integrated Field / Grad (see Note 2)	Current (Oper) (AMPS)	Voltage (Oper) (VOLTS)	Power (Magnet) (KW)	Cooling (Magnet) (GPM)	Current (Rated) (AMPS)	Voltage (Rated) (VOLTS)	Power (PS) (KW)	Cooling (PS) (GPM)
HEBT																											
HF Quad	HEBT_Mag	QV1		D	12Q45	HEBT_PS:	QV1	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.420	21.0	272	3.37	0.918	0.25	350	20	7.00	1.91
HF Quad	HEBT_Mag	QH2		D	12Q45	HEBT_PS:	QH2	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.420	21.0	272	3.37	0.918	0.25	350	20	7.00	1.91
HF Quad	HEBT_Mag	QV3		D	12Q45	HEBT_PS:	QV3	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.420	21.0	272	3.37	0.918	0.25	350	20	7.00	1.91
HF Quad	HEBT_Mag	QH4		D	12Q45	HEBT_PS:	QH4_6	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.420	21.0	272	3.37	0.918	0.25	350	30	10.50	2.87
HF Quad	HEBT_Mag	QV5		D	12Q45	HEBT_PS:	QV5	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.420	21.0	272	3.37	0.918	0.25	350	20	7.00	1.91
LF Dipole	HEBT_Mag	DCV5		D	16CDV20	HEBT_PS:	DCV5	20	16	11.2	11.2	20.0	600	0.8166		212	0.318	NA	6.36	8.37	6.83	0.0572	0	20	35	0.70	0.19
HF Quad	HEBT_Mag	QH6		D	12Q45	HEBT_PS:	QH4_6	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.420	21.0	272	3.37	0.918	0.25	350	30	10.50	2.87
LF Dipole	HEBT_Mag	DCH6		D	16CDH20	HEBT_PS:	DCH6	20	16	11.2	11.2	20.0	600	0.8166		212	0.318	NA	6.36	8.37	6.83	0.0572	0	20	35	0.70	0.19
HF Quad	HEBT_Mag	QV7		D	12Q45	HEBT_PS:	QV7	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.420	21.0	272	3.37	0.918	0.25	350	20	7.00	1.91
LF Dipole	HEBT_Mag	DCV7		D	16CDV20	HEBT_PS:	DCV7	20	16	11.2	11.2	20.0	600	0.8166		212	0.318	NA	6.36	8.37	6.83	0.0572	0	20	35	0.70	0.19
HF Quad	HEBT_Mag	QH8		D	12Q45	HEBT_PS:	QH8	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.420	21.0	272	3.37	0.918	0.25	350	20	7.00	1.91
LF Dipole	HEBT_Mag	DCH8		D	16CDH20	HEBT_PS:	DCH8	20	16	11.2	11.2	20.0	600	0.8166		212	0.318	NA	6.36	8.37	6.83	0.0572	0	20	35	0.70	0.19
HF Quad	HEBT_Mag	QV9		D	12Q45	HEBT_PS:	QV9	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.420	21.0	272	3.37	0.918	0.25	350	20	7.00	1.91
HF Quad	HEBT_Mag	QH10		D	12Q45	HEBT_PS:	QH10	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.420	21.0	272	3.37	0.918	0.25	350	20	7.00	1.91
HF Quad	HEBT_Mag	QV11		D	12Q45	HEBT_PS:	QV11	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.420	21.0	272	3.37	0.918	0.25	350	20	7.00	1.91
HF Dipole	HEBT_Mag	DH11		D	8D533	HEBT_PS:	DH11	532.5	8	5.6	5.6	533.4	24	2.70E-02	5.74E+04	31000	2.09	NA	1116.1	557	15.03	8.36	2.28	700	40	28.00	7.65
HF Quad	HEBT_Mag	QH12		D	21Q40	HEBT_PS:	QH12_thr_18	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.225	11.3	734	13.36	9.81	2.68	500	60	30.00	8.19
HF Dipole	HEBT_Mag	DH12		D	8D533	HEBT_PS:	DH12_thr_18	532.5	8	5.6	5.6	533.4	24	2.70E-02	5.74E+04	31000	2.09	NA	1116.1	557	15.03	8.36	2.28	700	150	105.00	28.67
HF Quad	HEBT_Mag	QV13		D	21Q40	HEBT_PS:	QV13_thr_19	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.225	11.3	734	13.36	9.81	2.68	500	60	30.00	8.19
HF Dipole	HEBT_Mag	DH13		D	8D533	HEBT_PS:	DH12_thr_18	532.5	8	5.6	5.6	533.4	24	2.70E-02	5.74E+04	31000	2.09	NA	1116.1	557	15.03	8.36	2.28	700	150	105.00	28.67
LF Dipole	HEBT_Mag	DCH14		D	27CDH30	HEBT_PS:	DCH14	30	27	18.9	18.9	30.0	624	1.0682		530	0.201	NA	6.03	8.37	8.94	0.0748	0	20	35	0.70	0.19
HF Quad	HEBT_Mag	QH14		D	21Q40	HEBT_PS:	QH12_thr_18	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.225	11.3	734	13.36	9.81	2.68	500	60	30.00	8.19
HF Dipole	HEBT_Mag	DH14		D	8D533	HEBT_PS:	DH12_thr_18	532.5	8	5.6	5.6	533.4	24	2.70E-02	5.74E+04	31000	2.09	NA	1116.1	557	15.03	8.36	2.28	700	150	105.00	28.67
LF Dipole	HEBT_Mag	DCV15		D	27CDV30	HEBT_PS:	DCV15	30	27	18.9	18.9	30.0	624	1.0682		530	0.201	NA	6.03	8.37	8.94	0.0748	0	20	35	0.70	0.19
HF Quad	HEBT_Mag	QV15		D	21Q40	HEBT_PS:	QV13_thr_19	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.225	11.3	734	13.36	9.81	2.68	500	60	30.00	8.19
HF Dipole	HEBT_Mag	DH15		D	8D533	HEBT_PS:	DH12_thr_18	532.5	8	5.6	5.6	533.4	24	2.70E-02	5.74E+04	31000	2.09	NA	1116.1	557	15.03	8.36	2.28	700	150	105.00	28.67
LF Dipole	HEBT_Mag	DCH16		D	27CDH30	HEBT_PS:	DCH16	30	27	18.9	18.9	30.0	624	1.0682		530	0.201	NA	6.03	8.37	8.94	0.0748	0	20	35	0.70	0.19
HF Quad	HEBT_Mag	QH16		D	21Q40	HEBT_PS:	QH12_thr_18	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.225	11.3	734	13.36	9.81	2.68	500	60	30.00	8.19
HF Dipole	HEBT_Mag	DH16		D	8D533	HEBT_PS:	DH12_thr_18	532.5	8	5.6	5.6	533.4	24	2.70E-02	5.74E+04	31000	2.09	NA	1116.1	557	15.03	8.36	2.28	700	150	105.00	28.67
LF Dipole	HEBT_Mag	DCV17		D	27CDV30	HEBT_PS:	DCV17	30	27	18.9	18.9	30.0	624	1.0682		530	0.201	NA	6.03	8.37	8.94	0.0748	0	20	35	0.70	0.19
HF Quad	HEBT_Mag	QV17		D	21Q40	HEBT_PS:	QV13_thr_19	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.225	11.3	734	13.36	9.81	2.68	500	60	30.00	8.19
HF Dipole	HEBT_Mag	DH17		D	8D533	HEBT_PS:	DH12_thr_18	532.5	8	5.6	5.6	533.4	24	2.70E-02	5.74E+04	31000	2.09	NA	1116.1	557	15.03	8.36	2.28	700	150	105.00	28.67
HF Quad	HEBT_Mag	QH18		D	21Q40	HEBT_PS:	QH12_thr_18	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.225	11.3	734	13.36	9.81	2.68	500	60	30.00	8.19
HF Dipole	HEBT_Mag	DH18		D	8D533	HEBT_PS:	DH12_thr_18	532.5	8	5.6	5.6	533.4	24	2.70E-02	5.74E+04	31000	2.09	NA	1116.1	557	15.03	8.36	2.28	700	150	105.00	28.67
HF Quad	HEBT_Mag	QV19		D	21Q40	HEBT_PS:	QV13_thr_19	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.225	11.3	734	13.36	9.81	2.68	500	60	30.00	8.19
HF Quad	HEBT_Mag	QH20		D	12Q45	HEBT_PS:	QH20	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.300	15.0	272	3.37	0.918	0.25	300	20	6.00	1.64
HF Quad	HEBT_Mag	QV21		D	12Q45	HEBT_PS:	QV21	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.300	15.0	272	3.37	0.918	0.25	300	20	6.00	1.64
LF Dipole	HEBT_Mag	DCV21		D	16CDV20	HEBT_PS:	DCV21	20	16	11.2	11.2	20.0	600	0.8166		212	0.318	NA	6.36	8.37	6.83	0.0572	0	20	35	0.70	0.19
HF Quad	HEBT_Mag	QH22		D	12Q45	HEBT_PS:	QH22	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.300	15.0	272	3.37	0.918	0.25	300	20	6.00	1.64
LF Dipole	HEBT_Mag	DCH22		D	16CDH20	HEBT_PS:	DCH22	20	16	11.2	11.2	20.0	600	0.8166		212	0.318	NA	6.36	8.37	6.83	0.0572	0	20	35	0.70	0.19
HF Quad	HEBT_Mag	QV23		D	12Q45	HEBT_PS:	QV23	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.300	15.0	272	3.37	0.918	0.25	300	20	6.00	1.64
LF Dipole	HEBT_Mag	DCV23		D	16CDV20	HEBT_PS:	DCV23	20	16	11.2	11.2	20.0	600	0.8166		212	0.318	NA	6.36	8.37	6.83	0.0572	0	20	35	0.70	0.19
HF Quad	HEBT_Mag	QH24		D	12Q45	HEBT_PS:	QH24	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.400	20.0	272	3.37	0.918	0.25	300	20	6.00	1.64
LF Dipole	HEBT_Mag	DCH24		D	16CDH20	HEBT_PS:	DCH24	20	16	11.2	11.2	20.0	600	0.8166		212	0.318	NA	6.36	8.37	6.83	0.0572	0	20	35	0.70	0.19
HF Quad	HEBT_Mag	QV25		D	12Q45	HEBT_PS:	QV25_thr_31	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.400	20.0	272	3.37	0.918	0.25	300	30	9.00	2.46
HF Dipole	HEBT_Mag	DH25		D	8D406	HEBT_PS:	DH25	406	8	5.6	5.6	414.4	24	2.02E-02	4.66E+04	25000	2.09	NA	867.1	557	11.24	6.26	1.71	700	40	28.00	7.65
HF Quad	HEBT_Mag	QH26		D	12Q45	HEBT_PS:	QH26_28_32	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.400	20.0	272	3.37	0.918	0.25	300	30	9.00	2.46
HF Quad	HEBT_Mag	QV27		D	12Q45	HEBT_PS:	QV25_thr_31	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.400	20.0	272	3.37	0.918	0.25	300	30	9.00	2.46
HF Quad	HEBT_Mag	QH28		D	12Q45	HEBT_PS:	QH26_28_32	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.400	20.0	272	3.37	0.918	0.25	300	30	9.00	2.46
LF Dipole	HEBT_Mag	DCH28		D	16CDH20	HEBT_PS:	DCH28	20	16	11.2	11.2	20.0	600	0.8166		212	0.318	NA	6.36	8.37	6.83	0.0572	0	20	35	0.70	0.19
HF Quad	HEBT_Mag	QV29		D	12Q45	HEBT_PS:	QV25_thr_31	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.400	20.0	272	3.37	0.918	0.25	300	30	9.00	2.46
LF Dipole	HEBT_Mag	DCV29		D	16CDV20	HEBT_PS:	DCV29	20	16	11.2	11.2	20.0	600	0.8166		212	0.318	NA	6.36	8.37	6.83	0.0572	0	20	35	0.70	0.19
HF Quad	HEBT_Mag	QH30		D	12Q45	HEBT_PS:	QH30	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.450	22.5	272	3.37	0.918	0.25	350	20	7.00	1.91
LF Dipole	HEBT_Mag	DCH30		D	16CDH20	HEBT_PS:	DCH30	20	16	11.2	11.2	20.0	600	0.8166		212	0.318	NA	6.36	8.37	6.83	0.0572	0	20	35	0.70	0.19
HF Quad	HEBT_Mag	QV31		D	12Q45	HEBT_PS:	QV25_thr_31	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.400	20.0	272	3.37	0.918	0.25	300	30	9.00	2.46
LF Dipole	HEBT_Mag	DCV31		D	16CDV20	HEBT_PS:	DCV31	20	16	11.2	11.2	20.0	600	0.8166		212	0.318	NA	6.36	8.37	6.83	0.0572	0	20	35	0.70	0.19
HF Quad	HEBT_Mag	QH32		D	12Q45	HEBT_PS:	QH26_28_32	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.400	20.0	272	3.37	0.918	0.25	300	30	9.00	2.46
HF Quad	HEBT_Mag	QV33		D	12Q45	HEBT_PS:	QV33	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.600	30.0	272	3.37	0.918	0.25	500	30	15.00	4.10
HF Quad	HEBT_Mag	QH34		D	12Q45	HEBT_PS:	QH34	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.600	30.0	272	3.37	0.918	0.25	500	30	15.00	4.10

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
8		REVISION: 2001 - DEC - 20								MAGNET PARAMETERS									OPERATING PARAMETERS FOR 1.0 GeV							MAX PWR SUPPLY OPER SET-POINT				
9		LATTICE MAGNETS NOMENCLATURE						POWER		Core	Gap or	Good Field Region		Magnetic	Coils	Magnet Coil	Self -	Magnet	Dipole	Gradient	Integrated	Current	Voltage	Power	Cooling	Current	Voltage	Power	Cooling	
10		MAGNET	LOCATION	LATTICE	ASSEMBLY	DEVICE or	MAGNET	SUPPLY		Length	Aperture	Horiz	Vert	Length	per Pole	Resistance	Inductance	Weight	Field		Field / Grad	(Oper)	(Oper)	(Magnet)	(Magnet)	(Rated)	(Rated)	(PS)	(PS)	
11		TYPE	- FUNCTION	NAME	NAME	FUNCTION	DESIGNATION	SYS NAME	DVC NAME	(CM)	(CM)	(CM)	(CM)	(CM)	(TURNS)	(OHMS)	(MicroH)	(LBS)	(KG)	(see Note 1)	(see Note 2)	(AMPS)	(VOLTS)	(KW)	(GPM)	(AMPS)	(VOLTS)	(KW)	(GPM)	
13																														
109		**LINAC DUMP**																												
110																														
111		HF Quad	LDmp_Mag	QH1		D	12Q45	LDmp_PS:	QH1	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.300	15.0	272	3.37	0.918	0.25	200	15	3.00	0.82	
112																														
113		HF Quad	LDmp_Mag	QV2		D	12Q45	LDmp_PS:	QV2	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.300	15.0	272	3.37	0.918	0.25	200	15	3.00	0.82	
114																														
115		HF Quad	LDmp_Mag	QH3		D	12Q45	LDmp_PS:	QH3_4	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.350	17.5	272	3.37	0.918	0.25	200	15	3.00	0.82	
116																														
117		HF Quad	LDmp_Mag	QH4		D	12Q45	LDmp_PS:	QH3_4	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.350	17.5	272	3.37	0.918	0.25	200	15	3.00	0.82	
118		LF Dipole	LDmp_Mag	DCH4		D	16CDH20	LDmp_PS:	DCH4	20	16	11.2	11.2	20.0	600	0.8166		212	0.318	NA	6.36	8.37	6.83	0.0572	0	20	35	0.70	0.19	
119																														
120		HF Quad	LDmp_Mag	QV5		D	12Q45	LDmp_PS:	QV5_6	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.250	12.5	272	3.37	0.918	0.25	200	15	3.00	0.82	
121																														
122		HF Quad	LDmp_Mag	QV6		D	12Q45	LDmp_PS:	QV5_6	45	12	8.4	8.4	50.0	20	1.24E-02	3.08E+04	2000	NA	0.250	12.5	272	3.37	0.918	0.25	200	15	3.00	0.82	
123		LF Dipole	LDmp_Mag	DCV6		D	16CDV20	LDmp_PS:	DCV6	20	16	11.2	11.2	20.0	600	0.8166		212	0.318	NA	6.36	8.37	6.83	0.0572	0	20	35	0.70	0.19	
124																														
126		**RING**																												
127																														
128		**SUPERPERIOD "A"**																												
129																														
130		LF Dipole	Ring_Mag	DMCVA1	R1AS	D	27CDVM30	Ring_PS:	DCVA1	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	A1
131		LF Sk Quad	"	"	R1AS	F	27CDMQS30	Ring_PS:	QSCVA1	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	A1
132		LF Sk Sext	"	"	R1AS	F	27CDMSS30	Ring_PS:	SSCVA1_9	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0	20	35	0.70	0.19	A1
133		HF Quad	Ring_Mag	QVA1	R1AS	D	21Q40	Ring_PS:	QV1_9	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	A1
134		LF Trim Quad	Ring_Mag	QTVA1	R1AS	F	21QT40	Ring_PS:	QTVA1_9	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	35	1.40	0.38	A1
135		LF Sextupole	Ring_Mag	SCVA1	R1AS	D	21CS26	Ring_PS:	SCVA1	26	21	14.7	14.7	35.4	273	2.80		400	NA	7.263E-03	0.257	8.37	23.44	0.196	0	20	35	0.70	0.19	A1
136		HF Dipole	Ring_Mag	DHA1	R1AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	A1
137																														
139																														
140		LF Dipole	Ring_Mag	DMCHA2	R2AS	D	27CDHM30	Ring_PS:	DCHA2	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	A2
141		LF Sk Quad	"	"	R2AS	F	27CDMQS30	Ring_PS:	QSCHA2	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	A2
142		LF Sk Sext	"	"	R2AS	F	27CDMSS30	Ring_PS:	SSCHA2_8	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0	20	35	0.70	0.19	A2
143		HF Quad	Ring_Mag	QHA2	R2AS	D	21Q40	Ring_PS:	QH2_8	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	A2
144		LF Trim Quad	Ring_Mag	QTHA2	R2AS	F	21QT40	Ring_PS:	QTHA2_thr_C8	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	75	3.00	0.82	A2
145		LF Sextupole	Ring_Mag	SCHA2	R2AS	D	21CS26	Ring_PS:	SCHA2	26	21	14.7	14.7	35.4	273	2.80		400	NA	7.263E-03	0.257	8.37	23.44	0.196	0	20	35	0.70	0.19	A2
146		HF Dipole	Ring_Mag	DHA2	R2AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	A2
147																														
149																														
150		LF Dipole	Ring_Mag	DMCVA3	R3AS	D	27CDVM30	Ring_PS:	DCVA3	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	A3
151		LF Sk Quad	"	"	R3AS	F	27CDMQS30	Ring_PS:	QSCVA3	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	A3
152		LF Sk Sext	"	"	R3AS	F	27CDMSS30		NOT ENERGIZED	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0	---	---	---	---	A3
153		HF Quad	Ring_Mag	QVA3	R3AS	D	21Q40	Ring_PS:	QV3_5_7	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	A3
154		LF Trim Quad	Ring_Mag	QTVA3	R3AS	F	21QT40	Ring_PS:	QTVA3_5_7	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	35	1.40	0.38	A3
155		HF Sextupole	Ring_Mag	SVA3	R3AS	D	21S26	Ring_PS:	SVA3	26	21	14.7	14.7	33.0	21	2.21E-02		1358	NA	0.0214	0.705	156	3.44	0.536	0.15	200	15	3.00	0.82	A3
156		HF Dipole	Ring_Mag	DHA3	R3AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	A3
157																														
159																														
160		LF Dipole	Ring_Mag	DCHA4	R4AS	D	36CDHM30	Ring_PS:	DCHA4	30	36	25.2	25.2	45.0	646	0.7176		670	0.201	NA	9.04	10.9	7.81	0.0850	0	20	35	0.70	0.19	A4
161		HF Quad	Ring_Mag	QHA4	R4AS	D	26Q40	Ring_PS:	QH4_6	40	26	18.2	18.2	50.0	44	2.66E-02	2.35E+04	7300	NA	0.470	23.5	738	19.64	14.5	3.96	1000	350	350.00	95.56	A4
162		LF Trim Quad	Ring_Mag	QTHA4	R4AS	F	26QT40	Ring_PS:	QTHA4_thr_B6	40	26	18.2	18.2	50.0	16	1.84E-03		---	NA	0.0047	0.235	21.7	0.04	0.0009	0	40	75	3.00	0.82	A4
163		HF Sextupole	Ring_Mag	SHA4	R4AS	D	26S26	Ring_PS:	SHA4	26	26	18.2	18.2	33.0	42	4.83E-02		2155	NA	0.0214	0.705	155	7.48	1.158	0.32	200	15	3.00	0.82	A4
164		HF Dipole	Ring_Mag	DHA4	R4AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	A4
165																														
167																														
168		HF Sextupole	Ring_Mag	SVA5	R5AS	D	21S26	Ring_PS:	SVA5	26	21	14.7	14.7	33.0	21	2.21E-02		1358	NA	0.0214	0.705	156	3.44	0.536	0.15	200	15	3.00	0.82	A5
169		HF Quad	Ring_Mag	QVA5	R5AS	D	21Q40	Ring_PS:	QV3_5_7	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	A5
170		LF Trim Quad	Ring_Mag	QTVA5	R5AS	F	21QT40	Ring_PS:	QTVA3_5_7	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	35	1.40	0.38	A5
171		LF Dipole	Ring_Mag	DMCVA5	R5AS	D	27CDVM30	Ring_PS:	DCVA5	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	A5
172		LF Sk Quad	"	"	R5AS	F	27CDMQS30	Ring_PS:	QSCVA5	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	A5
173		LF Sk Sext	"	"	R5AS	F	27CDMSS30		NOT ENERGIZED	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0	---	---	---	---	A5
174																														

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
8		**REVISION: 2001 - DEC - 20**								**MAGNET PARAMETERS**									**OPERATING PARAMETERS FOR 1.0 GeV**							**MAX PWR SUPPLY OPER SET-POINT**				
9		**LATTICE MAGNETS NOMENCLATURE**						**POWER**		Core	Gap or	Good Field Region		Magnetic	Coils	Magnet Coil	Self -	Magnet	Dipole	Gradient	Integrated	Current	Voltage	Power	Cooling	Current	Voltage	Power	Cooling	
10		MAGNET	LOCATION	LATTICE	ASSEMBLY	DEVICE or	MAGNET	**SUPPLY**		Length	Aperture	Horiz	Vert	Length	per Pole	Resistance	Inductance	Weight	Field		Field / Grad	(Oper)	(Oper)	(Magnet)	(Magnet)	(Rated)	(Rated)	(PS)	(PS)	
11		TYPE	- FUNCTION	NAME	NAME	FUNCTION	DESIGNATION	SYS NAME	DVC NAME	(CM)	(CM)	(CM)	(CM)	(CM)	(TURNS)	(OHMS)	(MicroH)	(LBS)	(KG)	(see Note 1)	(see Note 2)	(AMPS)	(VOLTS)	(KW)	(GPM)	(AMPS)	(VOLTS)	(KW)	(GPM)	
12																														
13																														
176																														
177		HF Dipole	Ring_Mag	DHA6	R6AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	A6
178		HF Sextupole	Ring_Mag	SHA6	R6AS	D	26S26	Ring_PS:	SHA6	26	26	18.2	18.2	33.0	42	4.83E-02		2155	NA	0.0214	0.705	155	7.48	1.158	0.32	200	15	3.00	0.82	A6
179		HF Quad	Ring_Mag	QHA6	R6AS	D	26Q40	Ring_PS:	QH4_6	40	26	18.2	18.2	50.0	44	2.66E-02	2.35E+04	7300	NA	0.470	23.5	738	19.64	14.5	3.96	1000	350	350.00	95.56	A6
180		LF Trim Quad	Ring_Mag	QTHA6	R6AS	F	26Q40	Ring_PS:	QTHA4_thr_B6	40	26	18.2	18.2	50.0	16	1.84E-03		---	NA	0.0047	0.235	21.7	0.04	0.0009	0	40	75	3.00	0.82	A6
181		LF Dipole	Ring_Mag	DCHA6	R6AS	D	36CDHM30	Ring_PS:	DCHA6	30	36	25.2	25.2	45.0	646	0.7176		670	0.201	NA	9.04	10.9	7.81	0.0850	0	20	35	0.70	0.19	A6
182																														
184																														
185		HF Dipole	Ring_Mag	DHA7	R7AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	A7
186		HF Sextupole	Ring_Mag	SVA7	R7AS	D	21S26	Ring_PS:	SVA7	26	21	14.7	14.7	33.0	21	2.21E-02		1358	NA	0.0214	0.705	156	3.44	0.536	0.15	200	15	3.00	0.82	A7
187		HF Quad	Ring_Mag	QVA7	R7AS	D	21Q40	Ring_PS:	QV3_5_7	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	A7
188		LF Trim Quad	Ring_Mag	QTVA7	R7AS	F	21QT40	Ring_PS:	QTVA3_5_7	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	35	1.40	0.38	A7
189		LF Dipole	Ring_Mag	DMCVA7	R7AS	D	27CDVM30	Ring_PS:	DCVA7	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	A7
190		LF Sk Quad	"	"	R7AS	F	27CDMQS30	Ring_PS:	QSCVA7	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	A7
191		LF Sk Sext	"	"	R7AS	F	27CDMSS30		**NOT ENERGIZED**	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0	---	---	---	---	A7
192																														
194																														
195		HF Dipole	Ring_Mag	DHA8	R8AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	A8
196		LF Octupole	Ring_Mag	OCHA8	R8AS	D	21CO26	Ring_PS:	OCHA8	26	21	14.7	14.7	30.3	292	3.40		400	NA	9.690E-04	2.936E-02	8.37	28.46	0.238	0	20	75	1.50	0.41	A8
197		HF Quad	Ring_Mag	QHA8	R8AS	D	21Q40	Ring_PS:	QH2_8	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	A8
198		LF Trim Quad	Ring_Mag	QTHA8	R8AS	F	21QT40	Ring_PS:	QTHA2_thr_C8	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	75	3.00	0.82	A8
199		LF Dipole	Ring_Mag	DMCHA8	R8AS	D	27CDHM30	Ring_PS:	DCHA8	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	A8
200		LF Sk Quad	"	"	R8AS	F	27CDMQS30	Ring_PS:	QSCHA8	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	A8
201		LF Sk Sext	"	"	R8AS	F	27CDMSS30	Ring_PS:	SSCHA2_8	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0	20	35	0.70	0.19	A8
202																														
204																														
205		HF Dipole	Ring_Mag	DHA9	R9AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	A9
206		LF Octupole	Ring_Mag	OCVA9	R9AS	D	21CO26	Ring_PS:	OCVA9	26	21	14.7	14.7	30.3	292	3.40		400	NA	9.690E-04	2.936E-02	8.37	28.46	0.238	0	20	75	1.50	0.41	A9
207		HF Quad	Ring_Mag	QVA9	R9AS	D	21Q40	Ring_PS:	QV1_9	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	A9
208		LF Trim Quad	Ring_Mag	QTVA9	R9AS	F	21QT40	Ring_PS:	QTVA1_9	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	35	1.40	0.38	A9
209		LF Dipole	Ring_Mag	DMCVA9	R9AS	D	27CDVM30	Ring_PS:	DCVA9	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	A9
210		LF Sk Quad	"	"	R9AS	F	27CDMQS30	Ring_PS:	QSCVA9	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	A9
211		LF Sk Sext	"	"	R9AS	F	27CDMSS30	Ring_PS:	SSCVA1_9	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0	20	35	0.70	0.19	A9
212																														
213		**Superperiod "A" Tangent**																												
214																														
215		Injection Kickers	Ring_Mag	INJHKICK1		D	20DPH64	**Ring_PS:**	**InjKH1**	64	20	14.0	14.0	84.0	10	0.0030	158.0	1500	0.66	NA	55.5	1035	3.11	3.21	0.88	1400	800	1120.00	305.80	
216		Injection Kickers	Ring_Mag	INJVKICK1		D	20DPV64	**Ring_PS:**	**InjKV1**	64	20	14.0	14.0	84.0	10	0.0030	158.0	1500	0.58	NA	48.7	910	2.73	2.48	0.68	1000	600	600.00	163.82	
217		Injection Kickers	Ring_Mag	INJHKICK2		D	22DPH21	**Ring_PS:**	**InjKH2**	21	22	15.4	15.4	43.0	10	0.0022	103.0	1000	0.04	NA	1.7	71	0.16	0.01	0.00	300	200	60.00	16.38	
218		Injection Kickers	Ring_Mag	INJVKICK2		D	22DPV21	**Ring_PS:**	**InjKV2**	21	22	15.4	15.4	43.0	10	0.0022	103.0	1000	0.53	NA	22.8	932	2.05	1.91	0.52	150	100	15.00	4.10	
219																														
220		LF Dipole	Ring_Mag	DCHVA10	R10AS	D	41CDM30	Ring_PS:	DCHA10	30	41	28.7	28.7	45.0	1218	1.3529		810	0.402	NA	18.1	10.9	14.72	0.1602	0	20	35	0.70	0.19	A10
221		LF Dipole	"	"	R10AS	F	41CDM30	Ring_PS:	DCVA10	30	41	28.7	28.7	45.0	1218	1.3529		810	0.402	NA	18.1	10.9	14.72	0.1602	0	20	35	0.70	0.19	A10
222		HF Quad	Ring_Mag	QHA10	R10AS	D	30Q58	Ring_PS:	QH10_13	58	30	21.0	21.0	70.0	41	3.45E-02	3.10E+04	6400	NA	0.435	30.5	963	33.21	32.0	8.73	1000	350	350.00	95.56	A10
223		LF Trim Quad	Ring_Mag	QTHA10	R10AS	F	30QT58	Ring_PS:	QTHA10_thr_B13	58	30	21.0	21.0	70.0	14	1.88E-03		---	NA	0.0044	0.305	27.6	0.05	0.0014	0	40	75	3.00	0.82	A10
224		HF Quad	Ring_Mag	QVA11		D	30Q44	Ring_PS:	QV11_12	44	30	21.0	21.0	55.0	41	2.88E-02	2.30E+04	5200	NA	0.435	23.9	963	27.72	26.7	7.29	1000	350	350.00	95.56	A11
225		LF Trim Quad	Ring_Mag	QTVA11		F	30QT44	Ring_PS:	QTVA11_thr_C12	44	30	21.0	21.0	55.0	14	1.40E-03		---	NA	0.0044	0.239	27.6	0.04	0.0011	0	40	75	3.00	0.82	A11
226																														
227		Injection Septum	Ring_Mag	INJSEPTM1		D	7DS297	**Ring_PS:**	**InjSeptm1**	300	7	4.9	4.9	306.4	4	8.72E-04	8.60E+01	4000	2.04	NA	625.8	2863	2.50	7.15	1.95	3500	10	35.00	9.56	
228		HF Dipole	Ring_Mag	INJBND1		D	24D64	**Ring_PS:**	**DHInj1**	64	24	16.8	16.8	87.5	14	1.25E-03	6.44E+03	500	2.73	NA	238.8	3746	4.68	17.5	4.79	4500	20	90.00	24.57	
229		HF Dipole	Ring_Mag	INJBND2		D	23D64	**Ring_PS:**	**DHInj2**	70	24	16.8	16.8	94.0	28	3.61E-03	5.73E+04	10500	2.51	NA	236.0	1674	6.04	10.1	2.76	2000	10	20.00	5.46	
230		HF Dipole	Ring_Mag	INJBND3		D	24D75	**Ring_PS:**	**DHInj3**	48	24	16.8	16.8	72.0	28	4.04E-03	3.93E+04	7500	2.01	NA	144.6	1339	5.41	7.25	1.98	2000	10	20.00	5.46	
231		HF Dipole	Ring_Mag	INJBND4		D	24D68	**Ring_PS:**	**DHInj4**	68	24	16.8	16.8	92.0	28	2.84E-03	3.50E+03	8000	2.96	NA	272.6	2009	5.70	11.5	3.13	2500	15	37.50	10.24	
232		Inj Dump Sept	Ring_Mag	INJSEPTM2		D	6DSG213	**Ring_PS:**	**InjSeptm2**	213	6	4.2	4.2	220.0	8	1.38E-03	7.10E+02	6000	3.85	NA	847.0	2846	3.93	11.2	3.05	3500	10	35.00	9.56	
233																														
234		HF Quad	Ring_Mag	QVA12		D	30Q44	Ring_PS:	QV11_12	44	30	21.0	21.0	55.0	41	2.88E-02	2.30E+04	5200	NA	0.435	23.9	963	27.72	26.7	7.29	1000	350	350.00	95.56	A12
235		LF Trim Quad	Ring_Mag	QTVA12		F	30QT44	Ring_PS:	QTVA11_thr_C12	44	30	21.0	21.0	55.0	14	1.40E-03		---	NA	0.0044	0.239	27.6	0.04	0.0011	0	40	75	3.00	0.82	A12
236		HF Quad	Ring_Mag	QHA13	R13AS	D	30Q58	Ring_PS:	QH10_13	58	30	21.0	21.0	70.0	41	3.45E-02	3.10E+04	6400	NA	0.435	30.5	963	33.21	32.0	8.73	1000	350	350.00	95.56	A13
237		LF Trim Quad	Ring_Mag	QTHA13	R13AS	F	30QT58	Ring_PS:	QTHA10_thr_B13	58	30	21.0	21.0	70.0	14	1.88E-03		---	NA	0.0044	0.305	27.6	0.05	0.0014	0	40	75	3.00	0.82	A13
238		LF Dipole	Ring_Mag	DCHVA13	R13AS	D	41CDM30	Ring_PS:	DCHA13	30	41	28.7	28.7	45.0	1218	1.3529		810	0.402	NA	18.1	10.9	14.72	0.1602	0	20	35	0.70	0.19	A13
239		LF Dipole	"	"	R13AS	F	41CDM30	Ring_PS:	DCVA13	30	41	28.7	28.7	45.0	1218	1.3529		810	0.402	NA	18.1	10.9	14.72	0.1602	0	20	35	0.70	0.19	A13
240																														
241		Injection Kickers	Ring_Mag	INJVKICK3		D	22DPV21	**Ring_PS:**	**InjKV3**	21	22	15.4	15.4	43.0	10	0.0022	103.0	1000	0.53	NA	22.8	932	2.05	1.91	0.52	150	100	15.00	4.10	
242		Injection Kickers	Ring_Mag	INJHKICK3		D	22DPH21	**Ring_PS:**	**InjKH3**	21	22	15.4	15.4	43.0	10	0.0022	103.0	1000	0.04	NA	1.7	71	0.16	0.01	0.00	300	200	60.00	16.38	
243		Injection Kickers	Ring_Mag	INJVKICK4		D	20DPV64	**Ring_PS:**	**InjKV4**	64	20	14.0	14.0	84.0	10	0.0030	158.0	1500	0.58	NA	48.7	910	2.73	2.48	0.68	1000	600	600.00	163.82	
244		Injection Kickers	Ring_Mag	INJHKICK4		D	20DPH64	**Ring_PS:**	**InjKH4**	64	20	14.0	14.0	84.0	10	0.0030	158.0	1500	0.66	NA	55.5	1035	3.11	3.21	0.88	1400	800	1120.00	305.80	
245																														
246		**Superperiod "B" Arc**																												
247																														
248		LF Dipole	Ring_Mag	DMCVB1	R1AS	D	27CDVM30	Ring_PS:	DCVB1	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	B1
249		LF Sk Quad	"	"	R1AS	F	27CDMQS30	Ring_PS:	QSCVB1	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	B1
250		LF Sk Sext	"	"	R1AS	F	27CDMSS30	Ring_PS:	SSCVB1_9	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0	20	35	0.70	0.19	B1
251		HF Quad	Ring_Mag	QVB1	R1AS	D	21Q40	Ring_PS:	QV1_9	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	B1
252		LF Trim Quad	Ring_Mag	QTVB1	R1AS	F	21QT40	Ring_PS:	QTVB1_9	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	35	1.40	0.38	B1
253		LF Sextupole	Ring_Mag	SCVB1	R1AS	D	21CS26	Ring_PS:	SCVB1	26	21	14.7	14.7	35.4	273	2.80		400	NA	7.263E-03	0.257	8.37	23.44	0.196	0	20	35	0.70	0.19	B1
254		HF Dipole	Ring_Mag	DHB1	R1AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	B1
255																														
257																														

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
8		**REVISION: 2001 - DEC - 20**								**MAGNET PARAMETERS**									**OPERATING PARAMETERS FOR 1.0 GeV**							**MAX PWR SUPPLY OPER SET-POINT**				
9		**LATTICE MAGNETS NOMENCLATURE**						**POWER**		Core	Gap or	Good Field Region		Magnetic	Coils	Magnet Coil	Self -	Magnet	Dipole	Gradient	Integrated	Current	Voltage	Power	Cooling	Current	Voltage	Power	Cooling	
10		MAGNET	LOCATION	LATTICE	ASSEMBLY	DEVICE or	MAGNET	**SUPPLY**		Length	Aperture	Horiz	Vert	Length	per Pole	Resistance	Inductance	Weight	Field		Field / Grad	(Oper)	(Oper)	(Magnet)	(Magnet)	(Rated)	(Rated)	(PS)	(PS)	
11		TYPE	- FUNCTION	NAME	NAME	FUNCTION	DESIGNATION	SYS NAME	DVC NAME	(CM)	(CM)	(CM)	(CM)	(CM)	(TURNS)	(OHMS)	(MicroH)	(LBS)	(KG)	(see Note 1)	(see Note 2)	(AMPS)	(VOLTS)	(KW)	(GPM)	(AMPS)	(VOLTS)	(KW)	(GPM)	
12																														
13																														
258		LF Dipole	Ring_Mag	DMCHB2	R2AS	D	27CDHM30	Ring_PS:	DCHB2	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	B2
259		LF Sk Quad	"	"	R2AS	F	27CDMQS30	Ring_PS:	QSCHB2	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	B2
260		LF Sk Sext	"	"	R2AS	F	27CDMSS30	Ring_PS:	SSCHB2_8	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0	20	35	0.70	0.19	B2
261		HF Quad	Ring_Mag	QHB2	R2AS	D	21Q40	Ring_PS:	QH2_8	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	B2
262		LF Trim Quad	Ring_Mag	QTHB2	R2AS	F	21QT40	Ring_PS:	QTHB2_thr_D8	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	75	3.00	0.82	B2
263		LF Sextupole	Ring_Mag	SCHB2	R2AS	D	21CS26	Ring_PS:	SCHB2	26	21	14.7	14.7	35.4	273	2.80		400	NA	7.263E-03	0.257	8.37	23.44	0.196	0	20	35	0.70	0.19	B2
264		HF Dipole	Ring_Mag	DHB2	R2AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	B2
265																														
267																														
268		LF Dipole	Ring_Mag	DMCVB3	R3AS	D	27CDVM30	Ring_PS:	DCVB3	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	B3
269		LF Sk Quad	"	"	R3AS	F	27CDMQS30	Ring_PS:	QSCVB3	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	B3
270		LF Sk Sext	"	"	R3AS	F	27CDMSS30		NOT ENERGIZED	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0					B3
271		HF Quad	Ring_Mag	QVB3	R3AS	D	21Q40	Ring_PS:	QV3_5_7	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	B3
272		LF Trim Quad	Ring_Mag	QTVB3	R3AS	F	21QT40	Ring_PS:	QTVB3_5_7	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	35	1.40	0.38	B3
273		HF Sextupole	Ring_Mag	SVB3	R3AS	D	21S26	Ring_PS:	SVB3	26	21	14.7	14.7	33.0	21	2.21E-02		1358	NA	0.0214	0.705	156	3.44	0.536	0.15	200	15	3.00	0.82	B3
274		HF Dipole	Ring_Mag	DHB3	R3AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	B3
275																														
277																														
278		LF Dipole	Ring_Mag	DCHB4	R4AS	D	36CDHM30	Ring_PS:	DCHB4	30	36	25.2	25.2	45.0	646	0.7176		670	0.201	NA	9.04	10.9	7.81	0.0850	0	20	35	0.70	0.19	B4
279		HF Quad	Ring_Mag	QHB4	R4AS	D	26Q40	Ring_PS:	QH4_6	40	26	18.2	18.2	50.0	44	2.66E-02	2.35E+04	7300	NA	0.470	23.5	738	19.64	14.5	3.96	1000	350	350.00	95.56	B4
280		LF Trim Quad	Ring_Mag	QTHB4	R4AS	F	26QT40	Ring_PS:	QTHA4_thr_B6	40	26	18.2	18.2	50.0	16	1.84E-03		---	NA	0.0047	0.235	21.7	0.04	0.0009	0	40	75	3.00	0.82	B4
281		HF Sextupole	Ring_Mag	SHB4	R4AS	D	26S26	Ring_PS:	SHB4	26	26	18.2	18.2	33.0	42	4.83E-02		2155	NA	0.0214	0.705	155	7.48	1.158	0.32	200	15	3.00	0.82	B4
282		HF Dipole	Ring_Mag	DHB4	R4AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	B4
283																														
285																														
286		HF Sextupole	Ring_Mag	SVB5	R5AS	D	21S26	Ring_PS:	SVB5	26	21	14.7	14.7	33.0	21	2.21E-02		1358	NA	0.0214	0.705	156	3.44	0.536	0.15	200	15	3.00	0.82	B5
287		HF Quad	Ring_Mag	QVB5	R5AS	D	21Q40	Ring_PS:	QV3_5_7	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	B5
288		LF Trim Quad	Ring_Mag	QTVB5	R5AS	F	21QT40	Ring_PS:	QTVB3_5_7	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	35	1.40	0.38	B5
289		LF Dipole	Ring_Mag	DMCVB5	R5AS	D	27CDVM30	Ring_PS:	DCVB5	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	B5
290		LF Sk Quad	"	"	R5AS	F	27CDMQS30	Ring_PS:	QSCVB5	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	B5
291		LF Sk Sext	"	"	R5AS	F	27CDMSS30		NOT ENERGIZED	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0					B5
292																														
294																														
295		HF Dipole	Ring_Mag	DHB6	R6AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	B6
296		HF Sextupole	Ring_Mag	SHB6	R6AS	D	26S26	Ring_PS:	SHB6	26	26	18.2	18.2	33.0	42	4.83E-02		2155	NA	0.0214	0.705	155	7.48	1.158	0.32	200	15	3.00	0.82	B6
297		HF Quad	Ring_Mag	QHB6	R6AS	D	26Q40	Ring_PS:	QH4_6	40	26	18.2	18.2	50.0	44	2.66E-02	2.35E+04	7300	NA	0.470	23.5	738	19.64	14.5	3.96	1000	350	350.00	95.56	B6
298		LF Trim Quad	Ring_Mag	QTHB6	R6AS	F	26Q40	Ring_PS:	QTHA4_thr_B6	40	26	18.2	18.2	50.0	16	1.84E-03		---	NA	0.0047	0.235	21.7	0.04	0.0009	0	40	75	3.00	0.82	B6
299		LF Dipole	Ring_Mag	DCHB6	R6AS	D	36CDHM30	Ring_PS:	DCHB6	30	36	25.2	25.2	45.0	646	0.7176		670	0.201	NA	9.04	10.9	7.81	0.0850	0	20	35	0.70	0.19	B6
300																														
302																														
303		HF Dipole	Ring_Mag	DHB7	R7AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	B7
304		HF Sextupole	Ring_Mag	SVB7	R7AS	D	21S26	Ring_PS:	SVB7	26	21	14.7	14.7	33.0	21	2.21E-02		1358	NA	0.0214	0.705	156	3.44	0.536	0.15	200	15	3.00	0.82	B7
305		HF Quad	Ring_Mag	QVB7	R7AS	D	21Q40	Ring_PS:	QV3_5_7	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	B7
306		LF Trim Quad	Ring_Mag	QTVB7	R7AS	F	21QT40	Ring_PS:	QTVB3_5_7	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	35	1.40	0.38	B7
307		LF Dipole	Ring_Mag	DMCVB7	R7AS	D	27CDVM30	Ring_PS:	DCVB7	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	B7
308		LF Sk Quad	"	"	R7AS	F	27CDMQS30	Ring_PS:	QSCVB7	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	B7
309		LF Sk Sext	"	"	R7AS	F	27CDMSS30		NOT ENERGIZED	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0					B7
310																														
312																														
313		HF Dipole	Ring_Mag	DHB8	R8AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	B8
314		LF Octupole	Ring_Mag	OCHB8	R8AS	D	21CO26	Ring_PS:	OCHB8	26	21	14.7	14.7	30.3	292	3.40		400	NA	9.690E-04	2.936E-02	8.37	28.46	0.238	0	20	75	1.50	0.41	B8
315		HF Quad	Ring_Mag	QHB8	R8AS	D	21Q40	Ring_PS:	QH2_8	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	B8
316		LF Trim Quad	Ring_Mag	QTHB8	R8AS	F	21QT40	Ring_PS:	QTHB2_thr_D8	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	75	3.00	0.82	B8
317		LF Dipole	Ring_Mag	DMCHB8	R8AS	D	27CDHM30	Ring_PS:	DCHB8	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	B8
318		LF Sk Quad	"	"	R8AS	F	27CDMQS30	Ring_PS:	QSCHB8	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	B8
319		LF Sk Sext	"	"	R8AS	F	27CDMSS30	Ring_PS:	SSCHB2_8	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0	20	35	0.70	0.19	B8
320																														
322																														
323		HF Dipole	Ring_Mag	DHB9	R9AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	B9
324		LF Octupole	Ring_Mag	OCVB9	R9AS	D	21CO26	Ring_PS:	OCVB9	26	21	14.7	14.7	30.3	292	3.40		400	NA	9.690E-04	2.936E-02	8.37	28.46	0.238	0	20	75	1.50	0.41	B9
325		HF Quad	Ring_Mag	QVB9	R9AS	D	21Q40	Ring_PS:	QV1_9	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	B9
326		LF Trim Quad	Ring_Mag	QTVB9	R9AS	F	21QT40	Ring_PS:	QTVB1_9	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	35	1.40	0.38	B9
327		LF Dipole	Ring_Mag	DMCVB9	R9AS	D	27CDVM30	Ring_PS:	DCVB9	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	B9
328		LF Sk Quad	"	"	R9AS	F	27CDMQS30	Ring_PS:	QSCVB9	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	B9
329		LF Sk Sext	"	"	R9AS	F	27CDMSS30	Ring_PS:	SSCVB1_9	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0	20	35	0.70	0.19	B9
330																														
331		**Superperiod "B" Tangent**																												
332																														
333		LF Dipole	Ring_Mag	DCHVB10	R10AS	D	41CDM30	Ring_PS:	DCHB10	30	41	28.7	28.7	45.0	1218	1.3529		810	0.402	NA	18.1	10.9	14.72	0.1602	0	20	35	0.70	0.19	B10
334		LF Dipole	"	"	R10AS	F	41CDM30	Ring_PS:	DCVB10	30	41	28.7	28.7	45.0	1218	1.3529		810	0.402	NA	18.1	10.9	14.72	0.1602	0	20	35	0.70	0.19	B10
335		HF Quad	Ring_Mag	QHB10	R10AS	D	30Q58	Ring_PS:	QH10_13	58	30	21.0	21.0	70.0	41	3.45E-02	3.10E+04	6400	NA	0.435	30.5	963	33.21	32.0	8.73	1000	350	350.00	95.56	B10
336		LF Trim Quad	Ring_Mag	QTHB10	R10AS	F	30QT58	Ring_PS:	QTHA10_thr_B13	58	30	21.0	21.0	70.0	14	1.88E-03		---	NA	0.0044	0.305	27.6	0.05	0.0014	0	40	75	3.00	0.82	B10
337		HF Quad	Ring_Mag	QVB11		D	30Q44	Ring_PS:	QV11_12	44	30	21.0	21.0	55.0	41	2.88E-02	2.30E+04	5200	NA	0.435	23.9	963	27.72	26.7	7.29	1000	350	350.00	95.56	B11
338		LF Trim Quad	Ring_Mag	QTVB11		F	30QT44	Ring_PS:	QTVB11_thr_D12	44	30	21.0	21.0	55.0	14	1.40E-03		---	NA	0.0044	0.239	27.6	0.04	0.0011	0	40	75	3.00	0.82	B11
339																														
340		HF Quad	Ring_Mag	QVB12		D	30Q44	Ring_PS:	QV11_12	44	30	21.0	21.0	55.0	41	2.88E-02	2.30E+04	5200	NA	0.435	23.9	963	27.72	26.7	7.29	1000	350	350.00	95.56	B12
341		LF Trim Quad	Ring_Mag	QTVB12		F	30QT44	Ring_PS:	QTVB11_thr_D12	44	30	21.0	21.0	55.0	14	1.40E-03		---	NA	0.0044	0.239	27.6	0.04	0.0011	0	40	75	3.00	0.82	B12
342		HF Quad	Ring_Mag	QHB13	R13AS	D	30Q58	Ring_PS:	QH10_13	58	30	21.0	21.0	70.0	41	3.45E-02	3.10E+04	6400	NA	0.435	30.5	963	33.21	32.0	8.73	1000	350	350.00	95.56	B13
343		LF Trim Quad	Ring_Mag	QTHB13	R13AS	F	30QT58	Ring_PS:	QTHA10_thr_B13	58	30	21.0	21.0	70.0	14	1.88E-03		---	NA	0.0044	0.305	27.6	0.05	0.0014	0	40	75	3.00	0.82	B13
344		LF Dipole	Ring_Mag	DCHVB13	R13AS	D	41CDM30	Ring_PS:	DCHB13	30	41	28.7	28.7	45.0	1218	1.3529		810	0.402	NA	18.1	10.9	14.72	0.1602	0	20	35	0.70	0.19	B13
345		LF Dipole	"	"	R13AS	F	41CDM30	Ring_PS:	DCVB13	30	41	28.7	28.7	45.0	1218	1.3529		810	0.402	NA	18.1	10.9	14.72	0.1602	0	20	35	0.70	0.19	B13
346																														
347		**Superperiod "C" Arc**																												
348																														
349		LF Dipole	Ring_Mag	DMCVC1	R1AS	D	27CDVM30	Ring_PS:	DCVC1	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	C1
350		LF Sk Quad	"	"	R1AS	F	27CDMQS30	Ring_PS:	QSCVC1	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	C1
351		LF Sk Sext	"	"	R1AS	F	27CDMSS30	Ring_PS:	SSCVC1_9	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0	20	35	0.70	0.19	C1
352		HF Quad	Ring_Mag	QVC1	R1AS	D	21Q40	Ring_PS:	QV1_9	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	C1
353		LF Trim Quad	Ring_Mag	QTVC1	R1AS	F	21QT40	Ring_PS:	QTVC1_9	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	35	1.40	0.38	C1
354		LF Sextupole	Ring_Mag	SCVC1	R1AS	D	21CS26	Ring_PS:	SCVC1	26	21	14.7	14.7	35.4	273	2.80		400	NA	7.263E-03	0.257	8.37	23.44	0.196	0	20	35	0.70	0.19	C1
355		HF Dipole	Ring_Mag	DHC1	R1AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	C1
356																														
358																														
359		LF Dipole	Ring_Mag	DMCHC2	R2AS	D	27CDHM30	Ring_PS:	DCHC2	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	C2
360		LF Sk Quad	"	"	R2AS	F	27CDMQS30	Ring_PS:	QSCHC2	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	C2
361		LF Sk Sext	"	"	R2AS	F	27CDMSS30	Ring_PS:	SSCHC2_8	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0	20	35	0.70	0.19	C2
362		HF Quad	Ring_Mag	QHC2	R2AS	D	21Q40	Ring_PS:	QH2_8	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	C2
363		LF Trim Quad	Ring_Mag	QTHC2	R2AS	F	21QT40	Ring_PS:	QTHA2_thr_C8	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	75	3.00	0.82	C2
364		LF Sextupole	Ring_Mag	SCHC2	R2AS	D	21CS26	Ring_PS:	SCHC2	26	21	14.7	14.7	35.4	273	2.80		400	NA	7.263E-03	0.257	8.37	23.44	0.196	0	20	35	0.70	0.19	C2
365		HF Dipole	Ring_Mag	DHC2	R2AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	C2
366																														

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
8		REVISION: 2001 - DEC - 20								MAGNET PARAMETERS									OPERATING PARAMETERS FOR 1.0 GeV							MAX PWR SUPPLY OPER SET-POINT				
9		LATTICE MAGNETS NOMENCLATURE						POWER		Core	Gap or	Good Field Region		Magnetic	Coils	Magnet Coil	Self -	Magnet	Dipole	Gradient	Integrated	Current	Voltage	Power	Cooling	Current	Voltage	Power	Cooling	
10		MAGNET	LOCATION	LATTICE	ASSEMBLY	DEVICE or	MAGNET	SUPPLY		Length	Aperture	Horiz	Vert	Length	per Pole	Resistance	Inductance	Weight	Field		Field / Grad	(Oper)	(Oper)	(Magnet)	(Magnet)	(Rated)	(Rated)	(PS)	(PS)	
11		TYPE	- FUNCTION	NAME	NAME	FUNCTION	DESIGNATION	SYS NAME	DVC NAME	(CM)	(CM)	(CM)	(CM)	(CM)	(TURNS)	(OHMS)	(MicroH)	(LBS)	(KG)	(see Note 1)	(see Note 2)	(AMPS)	(VOLTS)	(KW)	(GPM)	(AMPS)	(VOLTS)	(KW)	(GPM)	
12																														
13																														
368																														
369		LF Dipole	Ring_Mag	DMCVC3	R3AS	D	27CDVM30	Ring_PS:	DCVC3	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	C3
370		LF Sk Quad	"	"	R3AS	F	27CDMQS30	Ring_PS:	QSCVC3	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	C3
371		LF Sk Sext	"	"	R3AS	F	27CDMSS30		NOT ENERGIZED	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0					C3
372		HF Quad	Ring_Mag	QVC3	R3AS	D	21Q40	Ring_PS:	QV3_5_7	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	C3
373		LF Trim Quad	Ring_Mag	QTVC3	R3AS	F	21QT40	Ring_PS:	QTVC3_5_7	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	35	1.40	0.38	C3
374		HF Sextupole	Ring_Mag	SVC3	R3AS	D	21S26	Ring_PS:	SVC3	26	21	14.7	14.7	33.0	21	2.21E-02		1358	NA	0.0214	0.705	156	3.44	0.536	0.15	200	15	3.00	0.82	C3
375		HF Dipole	Ring_Mag	DHC3	R3AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	C3
376																														
378																														
379		LF Dipole	Ring_Mag	DCHC4	R4AS	D	36CDHM30	Ring_PS:	DCHC4	30	36	25.2	25.2	45.0	646	0.7176		670	0.201	NA	9.04	10.9	7.81	0.0850	0	20	35	0.70	0.19	C4
380		HF Quad	Ring_Mag	QHC4	R4AS	D	26Q40	Ring_PS:	QH4_6	40	26	18.2	18.2	50.0	44	2.66E-02	2.35E+04	7300	NA	0.470	23.5	738	19.64	14.5	3.96	1000	350	350.00	95.56	C4
381		LF Trim Quad	Ring_Mag	QTHC4	R4AS	F	26QT40	Ring_PS:	QTHC4_thr_D6	40	26	18.2	18.2	50.0	16	1.84E-03		---	NA	0.0047	0.235	21.7	0.04	0.0009	0	40	75	3.00	0.82	C4
382		HF Sextupole	Ring_Mag	SHC4	R4AS	D	26S26	Ring_PS:	SHC4	26	26	18.2	18.2	33.0	42	4.83E-02		2155	NA	0.0214	0.705	155	7.48	1.158	0.32	200	15	3.00	0.82	C4
383		HF Dipole	Ring_Mag	DHC4	R4AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	C4
384																														
386																														
387		HF Sextupole	Ring_Mag	SVC5	R5AS	D	21S26	Ring_PS:	SVC5	26	21	14.7	14.7	33.0	21	2.21E-02		1358	NA	0.0214	0.705	156	3.44	0.536	0.15	200	15	3.00	0.82	C5
388		HF Quad	Ring_Mag	QVC5	R5AS	D	21Q40	Ring_PS:	QV3_5_7	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	C5
389		LF Trim Quad	Ring_Mag	QTVC5	R5AS	F	21QT40	Ring_PS:	QTVC3_5_7	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	35	1.40	0.38	C5
390		LF Dipole	Ring_Mag	DMCVC5	R5AS	D	27CDVM30	Ring_PS:	DCVC5	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	C5
391		LF Sk Quad	"	"	R5AS	F	27CDMQS30	Ring_PS:	QSCVC5	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	C5
392		LF Sk Sext	"	"	R5AS	F	27CDMSS30		NOT ENERGIZED	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0					C5
393																														
395																														
396		HF Dipole	Ring_Mag	DHC6	R6AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	C6
397		HF Sextupole	Ring_Mag	SHC6	R6AS	D	26S26	Ring_PS:	SHC6	26	26	18.2	18.2	33.0	42	4.83E-02		2155	NA	0.0214	0.705	155	7.48	1.158	0.32	200	15	3.00	0.82	C6
398		HF Quad	Ring_Mag	QHC6	R6AS	D	26Q40	Ring_PS:	QH4_6	40	26	18.2	18.2	50.0	44	2.66E-02	2.35E+04	7300	NA	0.470	23.5	738	19.64	14.5	3.96	1000	350	350.00	95.56	C6
399		LF Trim Quad	Ring_Mag	QTHC6	R6AS	F	26Q40	Ring_PS:	QTHC4_thr_D6	40	26	18.2	18.2	50.0	16	1.84E-03		---	NA	0.0047	0.235	21.7	0.04	0.0009	0	40	75	3.00	0.82	C6
400		LF Dipole	Ring_Mag	DCHC6	R6AS	D	36CDHM30	Ring_PS:	DCHC6	30	36	25.2	25.2	45.0	646	0.7176		670	0.201	NA	9.04	10.9	7.81	0.0850	0	20	35	0.70	0.19	C6
401																														
403																														
404		HF Dipole	Ring_Mag	DHC7	R7AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	C7
405		HF Sextupole	Ring_Mag	SVC7	R7AS	D	21S26	Ring_PS:	SVC7	26	21	14.7	14.7	33.0	21	2.21E-02		1358	NA	0.0214	0.705	156	3.44	0.536	0.15	200	15	3.00	0.82	C7
406		HF Quad	Ring_Mag	QVC7	R7AS	D	21Q40	Ring_PS:	QV3_5_7	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	C7
407		LF Trim Quad	Ring_Mag	QTVC7	R7AS	F	21QT40	Ring_PS:	QTVC3_5_7	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	35	1.40	0.38	C7
408		LF Dipole	Ring_Mag	DMCVC7	R7AS	D	27CDVM30	Ring_PS:	DCVC7	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	C7
409		LF Sk Quad	"	"	R7AS	F	27CDMQS30	Ring_PS:	QSCVC7	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	C7
410		LF Sk Sext	"	"	R7AS	F	27CDMSS30		NOT ENERGIZED	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0					C7
411																														
413																														
414		HF Dipole	Ring_Mag	DHC8	R8AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	C8
415		LF Octupole	Ring_Mag	OCHC8	R8AS	D	21CO26	Ring_PS:	OCHC8	26	21	14.7	14.7	30.3	292	3.40		400	NA	9.690E-04	2.936E-02	8.37	28.46	0.238	0	20	75	1.50	0.41	C8
416		HF Quad	Ring_Mag	QHC8	R8AS	D	21Q40	Ring_PS:	QH2_8	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	C8
417		LF Trim Quad	Ring_Mag	QTHC2	R8AS	F	21QT40	Ring_PS:	QTHA2_thr_C8	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	75	3.00	0.82	C8
418		LF Dipole	Ring_Mag	DMCHC8	R8AS	D	27CDHM30	Ring_PS:	DCHC8	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	C8
419		LF Sk Quad	"	"	R8AS	F	27CDMQS30	Ring_PS:	QSCHC8	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	C8
420		LF Sk Sext	"	"	R8AS	F	27CDMSS30	Ring_PS:	SSCHC2_8	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0	20	35	0.70	0.19	C8
421																														
423																														
424		HF Dipole	Ring_Mag	DHC9	R9AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	C9
425		LF Octupole	Ring_Mag	OCVC9	R9AS	D	21CO26	Ring_PS:	OCVC9	26	21	14.7	14.7	30.3	292	3.40		400	NA	9.690E-04	2.936E-02	8.37	28.46	0.238	0	20	75	1.50	0.41	C9
426		HF Quad	Ring_Mag	QVC9	R9AS	D	21Q40	Ring_PS:	QV1_9	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	C9
427		LF Trim Quad	Ring_Mag	QTVC9	R9AS	F	21QT40	Ring_PS:	QTVC1_9	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	35	1.40	0.38	C9
428		LF Dipole	Ring_Mag	DMCVC9	R9AS	D	27CDVM30	Ring_PS:	DCVC9	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	C9
429		LF Sk Quad	"	"	R9AS	F	27CDMQS30	Ring_PS:	QSCVC9	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	C9
430		LF Sk Sext	"	"	R9AS	F	27CDMSS30	Ring_PS:	SSCVC1_9	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0	20	35	0.70	0.19	C9
431																														

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
8		REVISION: 2001 - DEC - 20								MAGNET PARAMETERS									OPERATING PARAMETERS FOR 1.0 GeV							MAX PWR SUPPLY OPER SET-POINT				
9		LATTICE MAGNETS NOMENCLATURE						POWER		Core	Gap or	Good Field Region		Magnetic	Coils	Magnet Coil	Self -	Magnet	Dipole	Gradient	Integrated	Current	Voltage	Power	Cooling	Current	Voltage	Power	Cooling	
10		MAGNET	LOCATION	LATTICE	ASSEMBLY	DEVICE or	MAGNET	SUPPLY		Length	Aperture	Horiz	Vert	Length	per Pole	Resistance	Inductance	Weight	Field		Field / Grad	(Oper)	(Oper)	(Magnet)	(Magnet)	(Rated)	(Rated)	(PS)	(PS)	
11		TYPE	- FUNCTION	NAME	NAME	FUNCTION	DESIGNATION	SYS NAME	DVC NAME	(CM)	(CM)	(CM)	(CM)	(CM)	(TURNS)	(OHMS)	(MicroH)	(LBS)	(KG)	(see Note 1)	(see Note 2)	(AMPS)	(VOLTS)	(KW)	(GPM)	(AMPS)	(VOLTS)	(KW)	(GPM)	
12																														
13																														
432		**Superperiod "C" Tangent**																												
433																														
434		Extract Kickers	Ring_Mag	EKV(sets of 7)		D	22EKV280		EKV(sets of 7)	280	25	17.5	17.5	294.0	1	0.0003		2400	0.193	NA	56.6	2480	0.74	1.85	0.50					
435																														
436		LF Dipole	Ring_Mag	DCHVC10	R10AS	D	41CDM30	Ring_PS:	DCHC10	30	41	28.7	28.7	45.0	1218	1.3529		810	0.402	NA	18.1	10.9	14.72	0.1602	0	20	35	0.70	0.19	C10
437		LF Dipole	"	"	R10AS	F	41CDM30	Ring_PS:	DCVC10	30	41	28.7	28.7	45.0	1218	1.3529		810	0.402	NA	18.1	10.9	14.72	0.1602	0	20	35	0.70	0.19	C10
438		HF Quad	Ring_Mag	QHC10	R10AS	D	30Q58	Ring_PS:	QH10_13	58	30	21.0	21.0	70.0	41	3.45E-02	3.10E+04	6400	NA	0.435	30.5	963	33.21	32.0	8.73	1000	350	350.00	95.56	C10
439		LF Trim Quad	Ring_Mag	QTHC10	R10AS	F	30QT58	Ring_PS:	QTHC10_thr_D13	58	30	21.0	21.0	70.0	14	1.88E-03		---	NA	0.0044	0.305	27.6	0.05	0.0014	0	40	75	3.00	0.82	C10
440		HF Quad	Ring_Mag	QVC11		D	30Q44	Ring_PS:	QV11_12	44	30	21.0	21.0	55.0	41	2.88E-02	2.30E+04	5200	NA	0.435	23.9	963	27.72	26.7	7.29	1000	350	350.00	95.56	C11
441		LF Trim Quad	Ring_Mag	QTVC11		F	30QT44	Ring_PS:	QTVA11_thr_C12	44	30	21.0	21.0	55.0	14	1.40E-03		---	NA	0.0044	0.239	27.6	0.04	0.0011	0	40	75	3.00	0.82	C11
442																														
443		Extract Kickers	Ring_Mag	EKV(sets of 7)		D	22EKV280		EKV(sets of 7)	280	25	17.5	17.5	294.0	1	0.0003		2400	0.193	NA	56.6	2480	0.74	1.85	0.50					
444																														
445		Lambertson Sept	Ring_Mag	ELS		D	17ELS244	**Ring_PS:**	**ExtrSeptm0**	244	17	20.0	11.9	247.8	48	1.10E-02	2.80E+04	48000	6.70	NA	1659.3	1883	20.72	39.0	10.65	2000	60	120.00	32.76	
446																														
447		HF Quad	Ring_Mag	QVC12		D	30Q44	Ring_PS:	QV11_12	44	30	21.0	21.0	55.0	41	2.88E-02	2.30E+04	5200	NA	0.435	23.9	963	27.72	26.7	7.29	1000	350	350.00	95.56	C12
448		LF Trim Quad	Ring_Mag	QTVC12		F	30QT44	Ring_PS:	QTVA11_thr_C12	44	30	21.0	21.0	55.0	14	1.40E-03		---	NA	0.0044	0.239	27.6	0.04	0.0011	0	40	75	3.00	0.82	C12
449		HF Quad	Ring_Mag	QHC13	R13AS	D	30Q58	Ring_PS:	QH10_13	58	30	21.0	21.0	70.0	41	3.45E-02	3.10E+04	6400	NA	0.435	30.5	963	33.21	32.0	8.73	1000	350	350.00	95.56	C13
450		LF Trim Quad	Ring_Mag	QTHC13	R13AS	F	30QT58	Ring_PS:	QTHC10_thr_D13	58	30	21.0	21.0	70.0	14	1.88E-03		---	NA	0.0044	0.305	27.6	0.05	0.0014	0	40	75	3.00	0.82	C13
451		LF Dipole	Ring_Mag	DCHVC13	R13AS	D	41CDM30	Ring_PS:	DCHC13	30	41	28.7	28.7	45.0	1218	1.3529		810	0.402	NA	18.1	10.9	14.72	0.1602	0	20	35	0.70	0.19	C13
452		LF Dipole	"	"	R13AS	F	41CDM30	Ring_PS:	DCVC13	30	41	28.7	28.7	45.0	1218	1.3529		810	0.402	NA	18.1	10.9	14.72	0.1602	0	20	35	0.70	0.19	C13
453																														
454		**SUPERPERIOD "D"**																												
455																														
456		LF Dipole	Ring_Mag	DMCVD1	R1AS	D	27CDVM30	Ring_PS:	DCVD1	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	D1
457		LF Sk Quad	"	"	R1AS	F	27CDMQS30	Ring_PS:	QSCVD1	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	D1
458		LF Sk Sext	"	"	R1AS	F	27CDMSS30	Ring_PS:	SSCVD1_9	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0	20	35	0.70	0.19	D1
459		HF Quad	Ring_Mag	QVD1	R1AS	D	21Q40	Ring_PS:	QV1_9	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	D1
460		LF Trim Quad	Ring_Mag	QTVD1	R1AS	F	21QT40	Ring_PS:	QTVD1_9	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	35	1.40	0.38	D1
461		LF Sextupole	Ring_Mag	SCVD1	R1AS	D	21CS26	Ring_PS:	SCVD1	26	21	14.7	14.7	35.4	273	2.80		400	NA	7.263E-03	0.257	8.37	23.44	0.196	0	20	35	0.70	0.19	D1
462		HF Dipole	Ring_Mag	DHD1	R1AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	D1
463																														
464																														
465																														
466		LF Dipole	Ring_Mag	DMCHD2	R2AS	D	27CDHM30	Ring_PS:	DCHD2	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	D2
467		LF Sk Quad	"	"	R2AS	F	27CDMQS30	Ring_PS:	QSCHD2	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	D2
468		LF Sk Sext	"	"	R2AS	F	27CDMSS30	Ring_PS:	SSCHD2_8	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0	20	35	0.70	0.19	D2
469		HF Quad	Ring_Mag	QHD2	R2AS	D	21Q40	Ring_PS:	QH2_8	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	D2
470		LF Trim Quad	Ring_Mag	QTHD2	R2AS	F	21QT40	Ring_PS:	QTHB2_thr_D8	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	75	3.00	0.82	D2
471		LF Sextupole	Ring_Mag	SCHD2	R2AS	D	21CS26	Ring_PS:	SCHD2	26	21	14.7	14.7	35.4	273	2.80		400	NA	7.263E-03	0.257	8.37	23.44	0.196	0	20	35	0.70	0.19	D2
472		HF Dipole	Ring_Mag	DHD2	R2AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	D2
473																														
474																														
475																														
476		LF Dipole	Ring_Mag	DMCVD3	R3AS	D	27CDVM30	Ring_PS:	DCVD3	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	D3
477		LF Sk Quad	"	"	R3AS	F	27CDMQS30	Ring_PS:	QSCVD3	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	D3
478		LF Sk Sext	"	"	R3AS	F	27CDMSS30		NOT ENERGIZED	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0					D3
479		HF Quad	Ring_Mag	QVD3	R3AS	D	21Q40	Ring_PS:	QV3_5_7	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	D3
480		LF Trim Quad	Ring_Mag	QTVD3	R3AS	F	21QT40	Ring_PS:	QTVD3_5_7	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	35	1.40	0.38	D3
481		HF Sextupole	Ring_Mag	SVD3	R3AS	D	21S26	Ring_PS:	SVD3	26	21	14.7	14.7	33.0	21	2.21E-02		1358	NA	0.0214	0.705	156	3.44	0.536	0.15	200	15	3.00	0.82	D3
482		HF Dipole	Ring_Mag	DHD3	R3AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	D3
483																														
484																														
485																														
486		LF Dipole	Ring_Mag	DCHD4	R4AS	D	36CDHM30	Ring_PS:	DCHD4	30	36	25.2	25.2	45.0	646	0.7176		670	0.201	NA	9.04	10.9	7.81	0.0850	0	20	35	0.70	0.19	D4
487		HF Quad	Ring_Mag	QHD4	R4AS	D	26Q40	Ring_PS:	QH4_6	40	26	18.2	18.2	50.0	44	2.66E-02	2.35E+04	7300	NA	0.470	23.5	738	19.64	14.5	3.96	1000	350	350.00	95.56	D4
488		LF Trim Quad	Ring_Mag	QTHD4	R4AS	F	26QT40	Ring_PS:	QTHC4_thr_D6	40	26	18.2	18.2	50.0	16	1.84E-03		---	NA	0.0047	0.235	21.7	0.04	0.0009	0	40	75	3.00	0.82	D4
489		HF Sextupole	Ring_Mag	SHD4	R4AS	D	26S26	Ring_PS:	SHD4	26	26	18.2	18.2	33.0	42	4.83E-02		2155	NA	0.0214	0.705	155	7.48	1.158	0.32	200	15	3.00	0.82	D4
490		HF Dipole	Ring_Mag	DHD4	R4AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	D4
491																														
492																														
493																														
494		HF Sextupole	Ring_Mag	SVD5	R5AS	D	21S26	Ring_PS:	SVD5	26	21	14.7	14.7	33.0	21	2.21E-02		1358	NA	0.0214	0.705	156	3.44	0.536	0.15	200	15	3.00	0.82	D5
495		HF Quad	Ring_Mag	QVD5	R5AS	D	21Q40	Ring_PS:	QV3_5_7	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	D5
496		LF Trim Quad	Ring_Mag	QTVD5	R5AS	F	21QT40	Ring_PS:	QTVD3_5_7	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	35	1.40	0.38	D5
497		LF Dipole	Ring_Mag	DMCVD5	R5AS	D	27CDVM30	Ring_PS:	DCVD5	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	D5
498		LF Sk Quad	"	"	R5AS	F	27CDMQS30	Ring_PS:	QSCVD5	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	D5
499		LF Sk Sext	"	"	R5AS	F	27CDMSS30		NOT ENERGIZED	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0					D5
500																														
501																														
502																														
503		HF Dipole	Ring_Mag	DHD6	R6AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	D6
504		HF Sextupole	Ring_Mag	SHD6	R6AS	D	26S26	Ring_PS:	SHD6	26	26	18.2	18.2	33.0	42	4.83E-02		2155	NA	0.0214	0.705	155	7.48	1.158	0.32	200	15	3.00	0.82	D6
505		HF Quad	Ring_Mag	QHD6	R6AS	D	26Q40	Ring_PS:	QH4_6	40	26	18.2	18.2	50.0	44	2.66E-02	2.35E+04	7300	NA	0.470	23.5	738	19.64	14.5	3.96	1000	350	350.00	95.56	D6
506		LF Trim Quad	Ring_Mag	QTHD6	R6AS	F	26Q40	Ring_PS:	QTHC4_thr_D6	40	26	18.2	18.2	50.0	16	1.84E-03		---	NA	0.0047	0.235	21.7	0.04	0.0009	0	40	75	3.00	0.82	D6
507		LF Dipole	Ring_Mag	DCHD6	R6AS	D	36CDHM30	Ring_PS:	DCHD6	30	36	25.2	25.2	45.0	646	0.7176		670	0.201	NA	9.04	10.9	7.81	0.0850	0	20	35	0.70	0.19	D6
508																														
509																														
510																														
511		HF Dipole	Ring_Mag	DHD7	R7AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	D7
512		HF Sextupole	Ring_Mag	SVD7	R7AS	D	21S26	Ring_PS:	SVD7	26	21	14.7	14.7	33.0	21	2.21E-02		1358	NA	0.0214	0.705	156	3.44	0.536	0.15	200	15	3.00	0.82	D7
513		HF Quad	Ring_Mag	QVD7	R7AS	D	21Q40	Ring_PS:	QV3_5_7	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	D7
514		LF Trim Quad	Ring_Mag	QTVD7	R7AS	F	21QT40	Ring_PS:	QTVD3_5_7	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	35	1.40	0.38	D7
515		LF Dipole	Ring_Mag	DMCVD7	R7AS	D	27CDVM30	Ring_PS:	DCVD7	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	D7
516		LF Sk Quad	"	"	R7AS	F	27CDMQS30	Ring_PS:	QSCVD7	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	D7
517		LF Sk Sext	"	"	R7AS	F	27CDMSS30		NOT ENERGIZED	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0					D7
518																														

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
8		REVISION: 2001 - DEC - 20								MAGNET PARAMETERS									OPERATING PARAMETERS FOR 1.0 GeV							MAX PWR SUPPLY OPER SET-POINT				
9		LATTICE MAGNETS NOMENCLATURE						POWER		Core	Gap or	Good Field Region		Magnetic	Coils	Magnet Coil	Self -	Magnet	Dipole	Gradient	Integrated	Current	Voltage	Power	Cooling	Current	Voltage	Power	Cooling	
10		MAGNET	LOCATION	LATTICE	ASSEMBLY	DEVICE or	MAGNET	SUPPLY		Length	Aperture	Horiz	Vert	Length	per Pole	Resistance	Inductance	Weight	Field		Field / Grad	(Oper)	(Oper)	(Magnet)	(Magnet)	(Rated)	(Rated)	(PS)	(PS)	
11		TYPE	- FUNCTION	NAME	NAME	FUNCTION	DESIGNATION	SYS NAME	DVC NAME	(CM)	(CM)	(CM)	(CM)	(CM)	(TURNS)	(OHMS)	(MicroH)	(LBS)	(KG)	(see Note 1)	(see Note 2)	(AMPS)	(VOLTS)	(KW)	(GPM)	(AMPS)	(VOLTS)	(KW)	(GPM)	
12																														
13																														
520																														
521		HF Dipole	Ring_Mag	DHD8	R8AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	D8
522		LF Octupole	Ring_Mag	OCHD8	R8AS	D	21CO26	Ring_PS:	OCHD8	26	21	14.7	14.7	30.3	292	3.40		400	NA	9.690E-04	2.936E-02	8.37	28.46	0.238	0	20	75	1.50	0.41	D8
523		HF Quad	Ring_Mag	QHD8	R8AS	D	21Q40	Ring_PS:	QH2_8	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	D8
524		LF Trim Quad	Ring_Mag	QTHD8	R8AS	F	21QT40	Ring_PS:	QTHB2_thr_D8	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	75	3.00	0.82	D8
525		LF Dipole	Ring_Mag	DMCHD8	R8AS	D	27CDHM30	Ring_PS:	DCHD8	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	D8
526		LF Sk Quad	"	"	R8AS	F	27CDMQS30	Ring_PS:	QSCHD8	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	D8
527		LF Sk Sext	"	"	R8AS	F	27CDMSS30	Ring_PS:	SSCHD2_8	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0	20	35	0.70	0.19	D8
528																														
529																														
530																														
531		HF Dipole	Ring_Mag	DHD9	R9AS	D	17D120	Ring_PS:	DH1_thr_9	120	17	11.9	11.9	143.4	24	1.48E-03	3.45E+04	19500	7.95	NA	1140.2	4482	6.63	29.7	8.12	5000	400	2000.00	546.08	D9
532		LF Octupole	Ring_Mag	OCVD9	R9AS	D	21CO26	Ring_PS:	OCVD9	26	21	14.7	14.7	30.3	292	3.40		400	NA	9.690E-04	2.936E-02	8.37	28.46	0.238	0	20	75	1.50	0.41	D9
533		HF Quad	Ring_Mag	QVD9	R9AS	D	21Q40	Ring_PS:	QV1_9	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.470	23.5	734	13.36	9.81	2.68	1000	350	350.00	95.56	D9
534		LF Trim Quad	Ring_Mag	QTVD9	R9AS	F	21QT40	Ring_PS:	QTVD1_9	40	21	14.7	14.7	50.0	14	2.30E-03		---	NA	0.0047	0.235	14.7	0.03	0.0005	0	40	35	1.40	0.38	D9
535		LF Dipole	Ring_Mag	DMCVD9	R9AS	D	27CDVM30	Ring_PS:	DCVD9	30	27	18.9	18.9	45.0	864	0.9597		580	0.1525	NA	6.863	10.9	10.44	0.1136	0	20	35	0.70	0.19	D9
536		LF Sk Quad	"	"	R9AS	F	27CDMQS30	Ring_PS:	QSCVD9	30	27	18.9	18.9	45.0	708	0.7864		580	NA	5.000E-03	0.225	10.9	8.56	0.0931	0	20	35	0.70	0.19	D9
537		LF Sk Sext	"	"	R9AS	F	27CDMSS30	Ring_PS:	SSCVD1_9	30	27	18.9	18.9	45.0	216	0.2399		580	NA	1.470E-04	6.614E-03	13.0	3.12	0.0405	0	20	35	0.70	0.19	D9
538																														
539																														
540																														
541		LF Dipole	Ring_Mag	DCHVD10	D10	D	41CDM30	Ring_PS:	DCHD10	30	41	28.7	28.7	45.0	1218	1.3529		810	0.402	NA	18.1	10.9	14.72	0.1602	0	20	35	0.70	0.19	D10
542		LF Dipole	"	"	D10	F	41CDM30	Ring_PS:	DCVD10	30	41	28.7	28.7	45.0	1218	1.3529		810	0.402	NA	18.1	10.9	14.72	0.1602	0	20	35	0.70	0.19	D10
543		HF Quad	Ring_Mag	QHD10	D10	D	30Q58	Ring_PS:	QH10_13	58	30	21.0	21.0	70.0	41	3.45E-02	3.10E+04	6400	NA	0.435	30.5	963	33.21	32.0	8.73	1000	350	350.00	95.56	D10
544		LF Trim Quad	Ring_Mag	QTHD10	D10	F	30QT58	Ring_PS:	QTHC10_thr_D13	58	30	21.0	21.0	70.0	14	1.88E-03		---	NA	0.0044	0.305	27.6	0.05	0.0014	0	40	75	3.00	0.82	D10
545		HF Quad	Ring_Mag	QVD11		D	30Q44	Ring_PS:	QV11_12	44	30	21.0	21.0	55.0	41	2.88E-02	2.30E+04	5200	NA	0.435	23.9	963	27.72	26.7	7.29	1000	350	350.00	95.56	D11
546		LF Trim Quad	Ring_Mag	QTVD11		F	30QT44	Ring_PS:	QTVB11_thr_D12	44	30	21.0	21.0	55.0	14	1.40E-03		---	NA	0.0044	0.239	27.6	0.04	0.0011	0	40	75	3.00	0.82	D11
547																														
548		HF Quad	Ring_Mag	QVD12		D	30Q44	Ring_PS:	QV11_12	44	30	21.0	21.0	55.0	41	2.88E-02	2.30E+04	5200	NA	0.435	23.9	963	27.72	26.7	7.29	1000	350	350.00	95.56	D12
549		LF Trim Quad	Ring_Mag	QTVD12		F	30QT44	Ring_PS:	QTVB11_thr_D12	44	30	21.0	21.0	55.0	14	1.40E-03		---	NA	0.0044	0.239	27.6	0.04	0.0011	0	40	75	3.00	0.82	D12
550		HF Quad	Ring_Mag	QHD13	D13	D	30Q58	Ring_PS:	QH10_13	58	30	21.0	21.0	70.0	41	3.45E-02	3.10E+04	6400	NA	0.435	30.5	963	33.21	32.0	8.73	1000	350	350.00	95.56	D13
551		LF Trim Quad	Ring_Mag	QTHD13	D13	F	30QT58	Ring_PS:	QTHC10_thr_D13	58	30	21.0	21.0	70.0	14	1.88E-03		---	NA	0.0044	0.305	27.6	0.05	0.0014	0	40	75	3.00	0.82	D13
552		LF Dipole	Ring_Mag	DCHVD13	D13	D	41CDM30	Ring_PS:	DCHD13	30	41	28.7	28.7	45.0	1218	1.3529		810	0.402	NA	18.1	10.9	14.72	0.1602	0	20	35	0.70	0.19	D13
553		LF Dipole	"	"	D13	F	41CDM30	Ring_PS:	DCVD13	30	41	28.7	28.7	45.0	1218	1.3529		810	0.402	NA	18.1	10.9	14.72	0.1602	0	20	35	0.70	0.19	D13
554																														
555		**INJECTION DUMP**																												
556																														
557		HF Quad	IDmp_Mag	QV1		D	30Q58	IDmp_PS:	QV1	58	30	21.0	21.0	70.0	41	3.45E-02	3.10E+04	6400	NA	0.275	19.3	963	33.21	32.0	8.73	750	30	22.50	6.14	
558		LF Dipole	IDmp_Mag	DCHV1		D	41CDM30	IDmp_PS:	DCH1	30	41	28.7	28.7	30.0	1218	1.3529		810	0.200	NA	6.0	10.9	14.72	0.1602	0	20	35	0.70	0.19	
559		LF Dipole	"	"		F	41CDM30	IDmp_PS:	DCV1	30	41	28.7	28.7	30.0	1218	1.3529		810	0.200	NA	6.0	10.9	14.72	0.1602	0	20	35	0.70	0.19	
560																														
561																														
562		**RTBT**																												
563																														
564		HF Quad	RTBT_Mag	QV1			30Q44	RTBT_PS:	QV1	44	30	21.0	21.0	55.0	41	2.88E-02	2.30E+04	5200	NA	0.450	24.8	996	28.69	28.6	7.80	1000	60	60.00	16.38	
565		HF Quad	RTBT_Mag	QH2			30Q58	RTBT_PS:	QH2	58	30	21.0	21.0	70.0	41	3.45E-02	3.10E+04	6400	NA	0.490	34.3	1085	37.42	40.6	11.08	1100	60	66.00	18.02	
566																														
567		HF Quad	RTBT_Mag	QV3			21Q40	RTBT_PS:	QV3	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.250	12.5	734	13.36	9.81	2.68	500	50	25.00	6.83	
568																														
569		HF Quad	RTBT_Mag	QH4			21Q40	RTBT_PS:	QH4	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.350	17.5	734	13.36	9.81	2.68	800	50	40.00	10.92	
570																														
571		HF Quad	RTBT_Mag	QV5			21Q40	RTBT_PS:	QV5_thr_11	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.500	25.0	734	13.36	9.81	2.68	800	120	96.00	26.21	
572		LF Dipole	RTBT_Mag	DCV5			27CDV30	RTBT_PS:	DCV5	30	27	18.9	18.9	30.0	624	1.0682		530	0.201	NA	6.03	8.37	8.94	0.0748	0	20	35	0.70	0.19	
573																														
574		HF Quad	RTBT_Mag	QH6			21Q40	RTBT_PS:	QH6_8_10	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.475	23.8	734	13.36	9.81	2.68	800	75	60.00	16.38	
575		LF Dipole	RTBT_Mag	DCH6			27CDH30	RTBT_PS:	DCH6	30	27	18.9	18.9	30.0	624	1.0682		530	0.201	NA	6.03	8.37	8.94	0.0748	0	20	35	0.70	0.19	
576																														
577		HF Quad	RTBT_Mag	QV7			21Q40	RTBT_PS:	QV5_thr_11	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.500	25.0	734	13.36	9.81	2.68	800	120	96.00	26.21	
578		LF Dipole	RTBT_Mag	DCV7			27CDV30	RTBT_PS:	DCV7	30	27	18.9	18.9	30.0	624	1.0682		530	0.201	NA	6.03	8.37	8.94	0.0748	0	20	35	0.70	0.19	
579																														
580		HF Quad	RTBT_Mag	QH8			21Q40	RTBT_PS:	QH6_8_10	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.475	23.8	734	13.36	9.81	2.68	800	75	60.00	16.38	
581		LF Dipole	RTBT_Mag	DCH8			27CDH30	RTBT_PS:	DCH8	30	27	18.9	18.9	30.0	624	1.0682		530	0.201	NA	6.03	8.37	8.94	0.0748	0	20	35	0.70	0.19	
582																														
583		HF Quad	RTBT_Mag	QV9			21Q40	RTBT_PS:	QV5_thr_11	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.500	25.0	734	13.36	9.81	2.68	800	120	96.00	26.21	
584																														
585		HF Quad	RTBT_Mag	QH10			21Q40	RTBT_PS:	QH6_8_10	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.475	23.8	734	13.36	9.81	2.68	800	75	60.00	16.38	
586																														
587		HF Quad	RTBT_Mag	QV11			21Q40	RTBT_PS:	QV5_thr_11	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.500	25.0	734	13.36	9.81	2.68	800	120	96.00	26.21	
588		LF Dipole	RTBT_Mag	DCV11			27CDV30	RTBT_PS:	DCV11	30	27	18.9	18.9	30.0	624	1.0682		530	0.201	NA	6.03	8.37	8.94	0.0748	0	20	35	0.70	0.19	
589																														
590		HF Quad	RTBT_Mag	QH12			21Q40	RTBT_PS:	QH12	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.450	22.5	734	13.36	9.81	2.68	800	50	40.00	10.92	
591																														
592		HF Quad	RTBT_Mag	QV13			21Q40	RTBT_PS:	QV13	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.300	15.0	734	13.36	9.81	2.68	800	50	40.00	10.92	
593		LF Dipole	RTBT_Mag	DCV13			27CDV30	RTBT_PS:	DCV13	30	27	18.9	18.9	30.0	624	1.0682		530	0.201	NA	6.03	8.37	8.94	0.0748	0	20	35	0.70	0.19	
594		HF Dipole	RTBT_Mag	DH13			17D244	RTBT_PS:	DH13	244	17	20.0	11.9	247.8	48	1.10E-02	1.29E+05	37000	6.80	NA	1684.2	1883	20.72	39.0	10.65	2000	50	100.00	27.30	
595																														
596		HF Quad	RTBT_Mag	QH14			21Q40	RTBT_PS:	QH14	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.300	15.0	734	13.36	9.81	2.68	800	50	40.00	10.92	
597		LF Dipole	RTBT_Mag	DCH14			27CDH30	RTBT_PS:	DCH14	30	27	18.9	18.9	30.0	624	1.0682		530	0.201	NA	6.03	8.37	8.94	0.0748	0	20	35	0.70	0.19	
598																														
599		HF Quad	RTBT_Mag	QV15			21Q40	RTBT_PS:	QV15	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.300	15.0	734	13.36	9.81	2.68	800	50	40.00	10.92	
600		LF Dipole	RTBT_Mag	DCV15			27CDV30	RTBT_PS:	DCV15	30	27	18.9	18.9	30.0	624	1.0682		530	0.201	NA	6.03	8.37	8.94	0.0748	0	20	35	0.70	0.19	
601																														
602		HF Quad	RTBT_Mag	QH16			21Q40	RTBT_PS:	QH16	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.300	15.0	734	13.36	9.81	2.68	800	50	40.00	10.92	
603		LF Dipole	RTBT_Mag	DCH16			27CDH30	RTBT_PS:	DCH16	30	27	18.9	18.9	30.0	624	1.0682		530	0.201	NA	6.03	8.37	8.94	0.0748	0	20	35	0.70	0.19	
604																														
605		HF Quad	RTBT_Mag	QV17			21Q40	RTBT_PS:	QV17	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.300	15.0	734	13.36	9.81	2.68	800	50	40.00	10.92	
606		LF Dipole	RTBT_Mag	DCV17			27CDV30	RTBT_PS:	DCV17	30	27	18.9	18.9	30.0	624	1.0682		530	0.201	NA	6.03	8.37	8.94	0.0748	0	20	35	0.70	0.19	
607																														
608		HF Quad	RTBT_Mag	QH18			21Q40	RTBT_PS:	QH18_thr_24	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.300	15.0	734	13.36	9.81	2.68	700	100	70.00	19.11	
609																														
610		HF Quad	RTBT_Mag	QV19			21Q40	RTBT_PS:	QV19_thr_25	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.300	15.0	734	13.36	9.81	2.68	700	100	70.00	19.11	
611		LF Dipole	RTBT_Mag	DCV19			27CDV30	RTBT_PS:	DCV19	30	27	18.9	18.9	30.0	624	1.0682		530	0.201	NA	6.03	8.37	8.94	0.0748	0	20	35	0.70	0.19	
612																														
613		HF Quad	RTBT_Mag	QH20			21Q40	RTBT_PS:	QH18_thr_24	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.300	15.0	734	13.36	9.81	2.68	700	100	70.00	19.11	
614		LF Dipole	RTBT_Mag	DCH20			27CDH30	RTBT_PS:	DCH20	30	27	18.9	18.9	30.0	624	1.0682		530	0.201	NA	6.03	8.37	8.94	0.0748	0	20	35	0.70	0.19	
615																														
616		HF Quad	RTBT_Mag	QV21			21Q40	RTBT_PS:	QV19_thr_25	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.300	15.0	734	13.36	9.81	2.68	700	100	70.00	19.11	
617		LF Dipole	RTBT_Mag	DCV21			27CDV30	RTBT_PS:	DCV21	30	27	18.9	18.9	30.0	624	1.0682		530	0.201	NA	6.03	8.37	8.94	0.0748	0	20	35	0.70	0.19	
618																														
619		HF Quad	RTBT_Mag	QH22			21Q40	RTBT_PS:	QH18_thr_24	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.300	15.0	734	13.36	9.81	2.68	700	100	70.00	19.11	
620		LF Dipole	RTBT_Mag	DCH22			27CDH30	RTBT_PS:	DCH22	30	27	18.9	18.9	30.0	624	1.0682		530	0.201	NA	6.03	8.37	8.94	0.0748	0	20	35	0.70	0.19	
621																														
622		HF Quad	RTBT_Mag	QV23			21Q40	RTBT_PS:	QV19_thr_25	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.300	15.0	734	13.36	9.81	2.68	700	100	70.00	19.11	
623		LF Dipole	RTBT_Mag	DCV23			27CDV30	RTBT_PS:	DCV23	30	27	18.9	18.9	30.0	624	1.0682		530	0.201	NA	6.03	8.37	8.94	0.0748	0	20	35	0.70	0.19	
624																														

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
8		REVISION: 2001 - DEC - 20								MAGNET PARAMETERS									OPERATING PARAMETERS FOR 1.0 GeV							MAX PWR SUPPLY OPER SET-POINT				
9		LATTICE MAGNETS NOMENCLATURE						POWER		Core	Gap or	Good Field Region		Magnetic	Coils	Magnet Coil	Self -	Magnet	Dipole	Gradient	Integrated	Current	Voltage	Power	Cooling	Current	Voltage	Power	Cooling	
10		MAGNET	LOCATION	LATTICE	ASSEMBLY	DEVICE or	MAGNET	SUPPLY		Length	Aperture	Horiz	Vert	Length	per Pole	Resistance	Inductance	Weight	Field		Field / Grad	(Oper)	(Oper)	(Magnet)	(Magnet)	(Rated)	(Rated)	(PS)	(PS)	
11		TYPE	- FUNCTION	NAME	NAME	FUNCTION	DESIGNATION	SYS NAME	DVC NAME	(CM)	(CM)	(CM)	(CM)	(CM)	(TURNS)	(OHMS)	(MicroH)	(LBS)	(KG)	(see Note 1)	(see Note 2)	(AMPS)	(VOLTS)	(KW)	(GPM)	(AMPS)	(VOLTS)	(KW)	(GPM)	
12																														
13																														
625		HF Quad	RTBT_Mag	QH24			21Q40	RTBT_PS:	QH18_thr_24	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.300	15.0	734	13.36	9.81	2.68	700	100	70.00	19.11	
626																														
627		HF Quad	RTBT_Mag	QV25			21Q40	RTBT_PS:	QV19_thr_25	40	21	14.7	14.7	50.0	28	1.82E-02	1.00E+04	6200	NA	0.300	15.0	734	13.36	9.81	2.68	700	100	70.00	19.11	
628																														
629		HF Quad	RTBT_Mag	QH26			30Q58	RTBT_PS:	QH26	58	30	21.0	21.0	70.0	41	3.45E-02	3.10E+04	6400	NA	0.435	30.5	963	33.21	32.0	8.73	1100	60	66.00	18.02	
630																														
631		HF Quad	RTBT_Mag	QV27			36Q85	RTBT_PS:	QV27	85	36	25.2	25.2	100.0	42	7.36E-02	7.23E+04	22700	NA	0.256	25.6	837	61.60	51.6	14.08	700	50	35.00	9.56	
632																														
633		HF Quad	RTBT_Mag	QH28			36Q85	RTBT_PS:	QH28	85	36	25.2	25.2	100.0	42	7.36E-02	7.23E+04	22700	NA	0.256	25.6	837	61.60	51.6	14.08	700	50	35.00	9.56	
634		LF Dipole	RTBT_Mag	DCHV28			36CDHR30	RTBT_PS:	DCH28	30	36	25.2	25.2	30.0	43	1.48E-02		900	0.400	NA	12.00	92.1	1.36	0.1255	0	120	35	4.20	1.15	
635		LF Dipole	"	"			36CDVR30	RTBT_PS:	DCV28	30	36	25.2	25.2	30.0	43	1.48E-02		900	0.400	NA	12.00	92.1	1.36	0.1255	0	120	35	4.20	1.15	
636																														
637		HF Quad	RTBT_Mag	QV29			36Q85	RTBT_PS:	QV29	85	36	25.2	25.2	100.0	42	7.36E-02	7.23E+04	22700	NA	0.256	25.6	837	61.60	51.6	14.08	700	50	35.00	9.56	
638																														
639		HF Quad	RTBT_Mag	QH30			36Q85	RTBT_PS:	QH30	85	36	25.2	25.2	100.0	42	7.36E-02	7.23E+04	22700	NA	0.256	25.6	837	61.60	51.6	14.08	800	50	40.00	10.92	
640		LF Dipole	RTBT_Mag	DCHV30			36CDHR30	RTBT_PS:	DCH30	30	36	25.2	25.2	30.0	43	1.48E-02		900	0.400	NA	12.00	92.1	1.36	0.1255	0	120	35	4.20	1.15	
641		LF Dipole	"	"			36CDVR30	RTBT_PS:	DCV30	30	36	25.2	25.2	30.0	43	1.48E-02		900	0.400	NA	12.00	92.1	1.36	0.1255	0	120	35	4.20	1.15	
642																														
643		EXTRACTION DUMP																												
644																														
645		HF Quad	EDmp_Mag	QH1			30Q44	EDmp_PS:	QH1	44	30	21.0	21.0	55.0	41	2.88E-02	2.30E+04	5200	NA	0.300	16.5	963	27.72	26.7	7.29	1000	75	75.00	20.48	
646																														
647		HF Quad	EDmp_Mag	QV2			30Q44	EDmp_PS:	QV2	44	30	21.0	21.0	55.0	41	2.88E-02	2.30E+04	5200	NA	0.300	16.5	963	27.72	26.7	7.29	1000	75	75.00	20.48	
648																														
649																														