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A REVISED CONVENTION FOR NAMING SECTIONS IN THE BOOSTER and NAMING BOOSTER ELEMENTS

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AD
BOOSTER TECHNICAL NOTE
NO. 142

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JUNE 5, 1989

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INTRODUCTION.

We present here a description of the choice of convention for naming sections and straight section segments in the Booster. Also described briefly is the general naming convention for objects in the Booster. Appended is a list of current names for magnetic elements, straight sections and survey monuments and survey points.

I. On Naming "Sections" in the Booster.

A. Main Magnets.

In the AGS, which is a combined function machine, straight sections lie between all main magnets and it is easy enough to name the straight section for the magnet preceding (upstream of) it. In contrast, in the Booster, where dipoles and quads are separate entities, the "main" magnets are more distributed; in particular, the quads and sextupoles UPstream of a given dipole are placed on the same "I"-beam also called "strong-back"). This configuration is the essential unit in the Booster (as it appears to someone working in the ring); it contains (in beam travel order):

a sextupole
space
a quadrupole
space
a dipole (in 6 of 8 sections, per sector)
space to the next unit

Consequently, we adopt a naming convention that gives a single section designation to this unit. Thus, the section designation begins at the upstream end of the "I"-beam -- and all magnets on the same "I"-beam have the same section designators:

A1, A2, ...,A8, B1, B2, ..., F1, F2, ..., F8.

B. Straight Section (Segments).

Because there is no longer one main magnet per section, the straight sections have become segmented -- and must be treated accordingly.

Next, we adopt the convention that straight section segments be named relative to the magnet that follows.

Thus, these spaces are named (using section A1 as an example):

straight section segment A1S
magnet: A1-sextupole
straight section segment A1Q
magnet: A1-quadrupole
straight section segment A1D
magnet: A1-dipole

straight section segment A2S
. . .

In the exceptional case where the dipole is absent, we refer to the run downstream of the quad (including the region where the dipole would have been) as the

"Long Straight Section"

This long straight section is considered to end at the vacuum flange between the sections. This places the devices upstream of the next sextupole that are physically on the following section's "I"-beam in that follwing section's designation as well. The sequence, for these long sections (#3 and #6 sections) then is:

straight section segment A3S
magnet: A3-sextupole
straight section segment A3Q
magnet: A3-quadrupole
Long straight section A3L

straight section segment A4S

As a result, the general rule becomes: a straight section segment has the same designator as the magnet to the left of it -- just as at the AGS!

[Thus, even though the beams in the two machines run in opposite senses, the relative physical positions of magnets and "straight sections" remains the same -- a boon to those who have to work inside both rings.]

II. Names of elements in the Booster Ring.

We use the ACS Naming Convention developed in AGS Tech Note No. 317. Using this system, elements identified by location in the ring or its ancillary lines have names of the form

Bxx.yyyyy

where the initial letter "B" indicates "Booster", the following two characters "xx" indicates major subsystem, and 'yyyyy' (which can be any length up to 14 characters) describes the particular element and its location (according to section naming rules in I., above)

We will refer to these names as the "Standard Element Names".

A few of the major subsystems we encounter are:

Booster --

BMM.	main magnets
BMC.	magnetic correctors
BLI.	linac injectioon (protons)
BTI.	tandem injection (heavy-ions)
BXT.	extraction
BRF.	RF-systems
BGN.	general (a catch-all category)
BMD.	measuring devices for miscellaneous devices
BRI.	ring properties (geometry, surveys)
BVA.	vacuum systems
BSF.	safety systems

Note particularly that the parts of the names to the right of the point will contain location information. As an example, the name "BMM.QHA4" refers to the ring location for a main quad in section A4.

The specific physical quad that is located there will also have an ID (e.g., "BMQ#15") which belongs to that physical magnet as well. ["BMQ" is a design type -- here chosen as an abbreviation of "Booster main quad" -- and the number "15" indicates that it is production number 15 of that design.]

If that physical quad is moved elsewhere, it retains its ID. In this way we can distinguish properties which belong to a physical element and properties that go with the location of that element.

III. List of Names.

These lists include:

(1) Main Magnet names (main dipoles, main quads, main sextupoles) [BMM.]

(2) Miscellaneous kickers, septa, etc. [BIJ. BXT. BGN.]

(3) Injection line element names [BLI.] [BTI.]

(4) Ejection line element names [ABI.] [Note: the major system name ABI. treats this as "AGS - Booster Injection"]

(5 A&B) Survey Monuments, Survey Points

(5C) Straight Section Segments [BRI.]

Additional lists will be generated for other systems as they are specified.

1. Names of MAIN MAGNETS

Standard Element Name	Physical Element Type Name	Booster Design Manual Name
BMM.SVA1	BMS	MSDF8
BMM.QVA1	BMQL	MQF8
BMM.DHA1	BMD	MDA1
BMM.SHA2	BMS	MSFA1
BMM.QHA2	BMQ	MQA1
BMM.DHA2	BMD	MDA2
BMM.SVA3	BMS	MSDA2
BMM.QVA3	BMQL	MQA2
BMM.SHA4	BMS	MSFA3
BMM.QHA4	BMQ	MQA3
BMM.DHA4	BMD	MDA4
BMM.SVA5	BMS	MSDA4
BMM.QVA5	BMQL	MQA4
BMM.DHA5	BMD	MDA5
BMM.SHA6	BMS	MSFA5
BMM.QHA6	BMQ	MQA5
BMM.SVA7	BMS	MSDA6
BMM.QVA7	BMQL	MQA6
BMM.DHA7	BMD	MDA7
BMM.SHA8	BMS	MSFA7
BMM.QHA8	BMQ	MQA7
BMM.DHA8	BMD	MDA8
BMM.SVB1	BMS	MSDA8
BMM.QVB1	BMQL	MQA8
BMM.DHB1	BMD	MDA1
BMM.SHB2	BMS	MSFA1
BMM.QHB2	BMQ	MQB1
BMM.DHB2	BMD	MDB2
BMM.SVB3	BMS	MSDB2
BMM.QVB3	BMQL	MQB2
BMM.SHB4	BMS	MSFB3
BMM.QHB4	BMQ	MQB3
BMM.DHB4	BMD	MDB4
BMM.SVB5	BMS	MSDB4
BMM.QVB5	BMQL	MQB4
BMM.DHB5	BMD	MDB5
BMM.SHB6	BMS	MSFB5
BMM.QHB6	BMQ	MQB5
BMM.SVB7	BMS	MSDB6
BMM.QVB7	BMQL	MQB6
BMM.DHB7	BMD	MDB7
BMM.SHB8	BMS	MSFB7
BMM.QHB8	BMQ	MQB7
BMM.DHB8	BMD	MDB8

BMM.SVC1	BMS	MSDB8
BMM.QVC1	BMQL	MQB8
BMM.DHC1	BMD	MDC1
BMM.SHC2	BMS	MSFC1
BMM.QHC2	BMQ	MQC1
BMM.DHC2	BMD	MDC2
BMM.SVC3	BMS	MSDC2
BMM.QVC3	BMQL	MQC2
BMM.SHC4	BMS	MSFC3
BMM.QHC4	BMQ	MQC3
BMM.DHC4	BMD	MDC4
BMM.SVC5	BMS	MSDC4
BMM.QVC5	BMQL	MQC4
BMM.DHC5	BMD	MDC5
BMM.SHC6	BMS	MSFC5
BMM.QHC6	BMQ	MQC5
BMM.SVC7	BMS	MSDC6
BMM.QVC7	BMQL	MQC6
BMM.DHC7	BMD	MDC7
BMM.SHC8	BMS	MSFC7
BMM.QHC8	BMQ	MQC7
BMM.DHC8	BMD	MDC8

BMM.SVD1	BMS	MSDC8
BMM.QVD1	BMQL	MQC8
BMM.DHD1	BMD	MDD1
BMM.SHD2	BMS	MSFD1
BMM.QHD2	BMQ	MQD1
BMM.DHD2	BMD	MDD2
BMM.SVD3	BMS	MSDD2
BMM.QVD3	BMQL	MQD2
BMM.SHD4	BMS	MSFD3
BMM.QHD4	BMQ	MQD3
BMM.DHD4	BMD	MDD4
BMM.SVD5	BMS	MSDD4
BMM.QVD5	BMQL	MQD4
BMM.DHD5	BMD	MDD5
BMM.SHD6	BMS	MSFD5
BMM.QHD6	BMQ	MQD5
BMM.SVD7	BMS	MSDD6
BMM.QVD7	BMQL	MQD6
BMM.DHD7	BMD	MDD7
BMM.SHD8	BMS	MSFD7
BMM.QHD8	BMQ	MQD7
BMM.DHD8	BMD	MDD8

BMM.SVE1	BMS	MSDD8
BMM.QVE1	BMQL	MQD8
BMM.DHE1	BMD	MDE1
BMM.SHE2	BMS	MSFE1
BMM.QHE2	BMQ	MQE1
BMM.DHE2	BMD	MDE2
BMM.SVE3	BMS	MSDE2
BMM.QVE3	BMQL	MQE2

BMM.SHE4	BMS	MSFE3
BMM.QHE4	BMQ	MQE3
BMM.DHE4	BMD	MDE4
BMM.SVE5	BMS	MSDE4
BMM.QVE5	BMQL	MQE4
BMM.DHE5	BMD	MDE5
BMM.SHE6	BMS	MSFE5
BMM.QHE6	BMQ	MQE5
BMM.SVE7	BMS	MSDE6
BMM.QVE7	BMQL	MQE6
BMM.DHE7	BMD	MDE7
BMM.SHE8	BMS	MSFE7
BMM.QHE8	BMQ	MQE7
BMM.DHE8	BMD	MDE8
BMM.SVF1	BMS	MSDE8
BMM.QVF1	BMQL	MQE8
BMM.DHF1	BMD	MDF1
BMM.SHF2	BMS	MSFF1
BMM.QHF2	BMQ	MQF1
BMM.DHF2	BMD	MDF2
BMM.SVF3	BMS	MSDF2
BMM.QVF3	BMQL	MQF2
BMM.SHF4	BMS	MSFF3
BMM.QHF4	BMQ	MQF3
BMM.DHF4	BMD	MDF4
BMM.SVF5	BMS	MSDF4
BMM.QVF5	BMQL	MQF4
BMM.DHF5	BMD	MDF5
BMM.SHF6	BMS	MSFF5
BMM.QHF6	BMQ	MQF5
BMM.SVF7	BMS	MSDF6
BMM.QVF7	BMQL	MQF6
BMM.DHF7	BMD	MDF7
BMM.SHF8	BMS	MSFF7
BMM.QHF8	BMQ	MQF7
BMM.DHF8	BMD	MDF8

2. Names of MISCELLANEOUS KICKERS, SEPTA, Etc.

Standard Element Name	Physical Element Type Name	Booster Design Manual Name	
BIJ.KRB8	KRIJ	HIK1C8	Injection Kicker (Heavy Ion)
BIJ.KRC3	KRIJ	PIK1C3 also HIK2C3	Injection Kicker
BIJ.KRC6	KRIJ	PIK2C6 also HIK3C6	Injection Kicker
BIJ.KRC8	KRIJ	PIK3C8	Injection Kicker (Protons)

BIJ.FOILC5		PIFC5	Injection Foil
BIJ.SPTMC3		HISC3	Electro-static Septum
BGN.KRC6	KRxx		DAMPING KICKER
BGN.KRD3	KRDMP		DUMP KICKER
BGN.KRE6	KRzz		TUNE KICKER
BXT.KRF3	KRXT	EK1F3	Ejection Kicker
BXT.SPTMF6		ES1F6	Ejection Septum

3-A. Names of PROTON INJECTION LINE Elements

Standard Element Name	Physical Element Type Name	Booster Design Manual Name
BLI.KR1	KRIL	PIK1
BLI.QH1	4Q10	PIQF1
BLI.QV2	4Q10	PIQD1
BLI.QH3	4Q10	PIQF2
BLI.QV4	4Q10	PIQD2
BLI.QH5	4Q10	PIQF3
BLI.DH1	2.5D45	PID1
BLI.DH2	2.5D45	PID2
BLI.QH6	4Q10	PIQF4
BLI.DH3	2.5D45	PID3
BLI.QH7	4Q10	PIQF5
BLI.DH4	2.5D45	PID4
BLI.QH8	4Q10	PIQF6
BLI.QV9	4Q10	PIQD3
BLI.QH10	4Q10	PIQF7
BLI.QV11	4Q10	PIQD4
BLI.QH12	4Q10	PIQF8
BLI.QV13	4Q10	PIQD5

3-B. Names of HEAVY-ION INJECTION LINE Elements

BTI. HID1, etc.

[Design Not Yet Specified]

4. Names of EJECTION LINE Elements (Transfer to AGS)

Standard Element	Physical Element	Booster Design

Name	Type Name	Manual Name
ABI.QV1	4Q20	EQ1
ABI.DV1	2D20	ED1
ABI.QH2	4Q20	EQ2a
	4Q20	& EQ2b
ABI.QV3	4Q20	EQ3
ABI.QH4	4Q20	EQ4
ABI.DH2	BMD	ED2
ABI.QV5	6.5Q20	EQ5
ABI.DH3	BMD	ED3
ABI.QH6	6.5Q20	EQ6
ABI.QV7	6.5Q20	EQ7
ABI.QH8	6.5Q20	EQ8
ABI.DH4	2D6	ED4
ABI.QV9	6.5Q20	EQ9
ABI.QH10	6.5Q20	EQ10
ABI.QV11	6.5Q20	EQ11
ABI.QH12	6.5Q20	EQ12
ABI.QV13	6.5Q20	EQ13
ABI.QH14	6.5Q20	EQ14
ABI.DH5	2D48	ED5
ABI.QV15	4Q20	EQ15

Note: These are labelled "ABI" -- meaning AGS Booster Injection.

5-A. Names of SURVEY MONUMENTS

Standard Element Name	Located Opposite Quadrupole Named	Old Number (From Booster Tech-Note 119, Table 3)
BRI.MON.A1	BMM.QVA1	48
BRI.MON.A2	BMM.QHA2	1
BRI.MON.A3	BMM.QVA3	25
BRI.MON.A4	BMM.QHA4	2
BRI.MON.A5	BMM.QVA5	26
BRI.MON.A6	BMM.QHA6	3
BRI.MON.A7	BMM.QVA7	27
BRI.MON.A8	BMM.QHA8	4
BRI.MON.B1	BMM.QVB1	28
BRI.MON.B2	BMM.QHB2	5
BRI.MON.B3	BMM.QVB3	29
BRI.MON.B4	BMM.QHB4	6
BRI.MON.B5	BMM.QVB5	30
BRI.MON.B6	BMM.QHB6	7
BRI.MON.B7	BMM.QVB7	31
BRI.MON.B8	BMM.QHB8	8
BRI.MON.C1	BMM.QVC1	32
BRI.MON.C2	BMM.QHC2	9
BRI.MON.C3	BMM.QVC3	33
BRI.MON.C4	BMM.QHC4	10

BRI.MON.C5	BMM.QVC5	34
BRI.MON.C6	BMM.QHC6	11
BRI.MON.C7	BMM.QVC7	35
BRI.MON.C8	BMM.QHC8	12
BRI.MON.D1	BMM.QVD1	36
BRI.MON.D2	BMM.QHD2	13
BRI.MON.D3	BMM.QVD3	37
BRI.MON.D4	BMM.QHD4	14
BRI.MON.D5	BMM.QVD5	38
BRI.MON.D6	BMM.QHD6	15
BRI.MON.D7	BMM.QVD7	39
BRI.MON.D8	BMM.QHD8	16
BRI.MON.E1	BMM.QVE1	40
BRI.MON.E2	BMM.QHE2	17
BRI.MON.E3	BMM.QVE3	41
BRI.MON.E4	BMM.QHE4	18
BRI.MON.E5	BMM.QVE5	42
BRI.MON.E6	BMM.QHE6	19
BRI.MON.E7	BMM.QVE7	43
BRI.MON.E8	BMM.QHE8	20
BRI.MON.F1	BMM.QVF1	44
BRI.MON.F2	BMM.QHF2	21
BRI.MON.F3	BMM.QVF3	45
BRI.MON.F4	BMM.QHF4	22
BRI.MON.F5	BMM.QVF5	46
BRI.MON.F6	BMM.QHF6	23
BRI.MON.F7	BMM.QVF7	47
BRI.MON.F8	BMM.QHF8	24

5-B. Names of SURVEY POINTS on MAGNETS

Standard Element Name	Monument Opposite Section
BRI.SRVPT.SA1	
BRI.SRVPT.QA1.US	
BRI.SRVPT.QA1.DS	BRI.MON.A1
BRI.SRVPT.DA1.US	
BRI.SRVPT.DA1.DS	
BRI.SRVPT.SA2	
BRI.SRVPT.QA2.US	
BRI.SRVPT.QA2.DS	BRI.MON.A2
BRI.SRVPT.DA2.US	
BRI.SRVPT.DA2.DS	
BRI.SRVPT.SA3	
BRI.SRVPT.QA3.US	
BRI.SRVPT.QA3.DS	BRI.MON.A3
BRI.SRVPT.SA4	
BRI.SRVPT.QA4.US	
BRI.SRVPT.QA4.DS	BRI.MON.A4
BRI.SRVPT.DA4.US	

BRI.SRVPT.DA4.DS	
BRI.SRVPT.SA5	
BRI.SRVPT.QA5.US	
BRI.SRVPT.QA5.DS	BRI.MON.A5
BRI.SRVPT.DA5.US	
BRI.SRVPT.DA5.DS	
BRI.SRVPT.SA6	
BRI.SRVPT.QA6.US	
BRI.SRVPT.QA6.DS	BRI.MON.A6
BRI.SRVPT.SA7	
BRI.SRVPT.QA7.US	
BRI.SRVPT.QA7.DS	BRI.MON.A7
BRI.SRVPT.DA7.US	
BRI.SRVPT.DA7.DS	
BRI.SRVPT.SA8	
BRI.SRVPT.QA8.US	
BRI.SRVPT.QA8.DS	BRI.MON.A8
BRI.SRVPT.DA8.US	
BRI.SRVPT.DA8.DS	
BRI.SRVPT.SB1	
BRI.SRVPT.QB1.US	
BRI.SRVPT.QB1.DS	BRI.MON.B1
BRI.SRVPT.DB1.US	
BRI.SRVPT.DB1.DS	
BRI.SRVPT.SB2	
BRI.SRVPT.QB2.US	
BRI.SRVPT.QB2.DS	BRI.MON.B2
BRI.SRVPT.DB2.US	
BRI.SRVPT.DB2.DS	
BRI.SRVPT.SB3	
BRI.SRVPT.QB3.US	
BRI.SRVPT.QB3.DS	BRI.MON.B3
BRI.SRVPT.SB4	
BRI.SRVPT.QB4.US	
BRI.SRVPT.QB4.DS	BRI.MON.B4
BRI.SRVPT.DB4.US	
BRI.SRVPT.DB4.DS	
BRI.SRVPT.SB5	
BRI.SRVPT.QB5.US	
BRI.SRVPT.QB5.DS	BRI.MON.B5
BRI.SRVPT.DB5.US	
BRI.SRVPT.DB5.DS	
BRI.SRVPT.SB6	
BRI.SRVPT.QB6.US	
BRI.SRVPT.QB6.DS	BRI.MON.B6
BRI.SRVPT.SB7	
BRI.SRVPT.QB7.US	
BRI.SRVPT.QB7.DS	BRI.MON.B7
BRI.SRVPT.DB7.US	
BRI.SRVPT.DB7.DS	
BRI.SRVPT.SB8	
BRI.SRVPT.QB8.US	
BRI.SRVPT.QB8.DS	BRI.MON.B8
BRI.SRVPT.DB8.US	
BRI.SRVPT.DB8.DS	

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BRI.SRVPT.SC1
BRI.SRVPT.QC1.US
BRI.SRVPT.QC1.DS        BRI.MON.C1
BRI.SRVPT.DC1.US
BRI.SRVPT.DC1.DS
BRI.SRVPT.SC2
BRI.SRVPT.QC2.US
BRI.SRVPT.QC2.DS        BRI.MON.C2
BRI.SRVPT.DC2.US
BRI.SRVPT.DC2.DS
BRI.SRVPT.SC3
BRI.SRVPT.QC3.US
BRI.SRVPT.QC3.DS        BRI.MON.C3
BRI.SRVPT.SC4
BRI.SRVPT.QC4.US
BRI.SRVPT.QC4.DS        BRI.MON.C4
BRI.SRVPT.DC4.US
BRI.SRVPT.DC4.DS
BRI.SRVPT.SC5
BRI.SRVPT.QC5.US
BRI.SRVPT.QC5.DS        BRI.MON.C5
BRI.SRVPT.DC5.US
BRI.SRVPT.DC5.DS
BRI.SRVPT.SC6
BRI.SRVPT.QC6.US
BRI.SRVPT.QC6.DS        BRI.MON.C6
BRI.SRVPT.SC7
BRI.SRVPT.QC7.US
BRI.SRVPT.QC7.DS        BRI.MON.C7
BRI.SRVPT.DC7.US
BRI.SRVPT.DC7.DS
BRI.SRVPT.SC8
BRI.SRVPT.QC8.US
BRI.SRVPT.QC8.DS        BRI.MON.C8
BRI.SRVPT.DC8.US
BRI.SRVPT.DC8.DS

BRI.SRVPT.SD1
BRI.SRVPT.QD1.US
BRI.SRVPT.QD1.DS        BRI.MON.D1
BRI.SRVPT.DD1.US
BRI.SRVPT.DD1.DS
BRI.SRVPT.SD2
BRI.SRVPT.QD2.US
BRI.SRVPT.QD2.DS        BRI.MON.D2
BRI.SRVPT.DD2.US
BRI.SRVPT.DD2.DS
BRI.SRVPT.SD3
BRI.SRVPT.QD3.US
BRI.SRVPT.QD3.DS        BRI.MON.D3
BRI.SRVPT.SD4
BRI.SRVPT.QD4.US
BRI.SRVPT.QD4.DS        BRI.MON.D4
BRI.SRVPT.DD4.US
BRI.SRVPT.DD4.DS
BRI.SRVPT.SD5
BRI.SRVPT.QD5.US
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BRI.SRVPT.QD5.DS	BRI.MON.D5
BRI.SRVPT.DD5.US	
BRI.SRVPT.DD5.DS	
BRI.SRVPT.SD6	
BRI.SRVPT.QD6.US	
BRI.SRVPT.QD6.DS	BRI.MON.D6
BRI.SRVPT.SD7	
BRI.SRVPT.QD7.US	
BRI.SRVPT.QD7.DS	BRI.MON.D7
BRI.SRVPT.DD7.US	
BRI.SRVPT.DD7.DS	
BRI.SRVPT.SD8	
BRI.SRVPT.QD8.US	
BRI.SRVPT.QD8.DS	BRI.MON.D8
BRI.SRVPT.DD8.US	
BRI.SRVPT.DD8.DS	
BRI.SRVPT.SE1	
BRI.SRVPT.QE1.US	
BRI.SRVPT.QE1.DS	BRI.MON.E1
BRI.SRVPT.DE1.US	
BRI.SRVPT.DE1.DS	
BRI.SRVPT.SE2	
BRI.SRVPT.QE2.US	
BRI.SRVPT.QE2.DS	BRI.MON.E2
BRI.SRVPT.DE2.US	
BRI.SRVPT.DE2.DS	
BRI.SRVPT.SE3	
BRI.SRVPT.QE3.US	
BRI.SRVPT.QE3.DS	BRI.MON.E3
BRI.SRVPT.SE4	
BRI.SRVPT.QE4.US	
BRI.SRVPT.QE4.DS	BRI.MON.E4
BRI.SRVPT.DE4.US	
BRI.SRVPT.DE4.DS	
BRI.SRVPT.SE5	
BRI.SRVPT.QE5.US	
BRI.SRVPT.QE5.DS	BRI.MON.E5
BRI.SRVPT.DE5.US	
BRI.SRVPT.DE5.DS	
BRI.SRVPT.SE6	
BRI.SRVPT.QE6.US	
BRI.SRVPT.QE6.DS	BRI.MON.E6
BRI.SRVPT.SE7	
BRI.SRVPT.QE7.US	
BRI.SRVPT.QE7.DS	BRI.MON.E7
BRI.SRVPT.DE7.US	
BRI.SRVPT.DE7.DS	
BRI.SRVPT.SE8	
BRI.SRVPT.QE8.US	
BRI.SRVPT.QE8.DS	BRI.MON.E8
BRI.SRVPT.DE8.US	
BRI.SRVPT.DE8.DS	
BRI.SRVPT.SF1	
BRI.SRVPT.QF1.US	
BRI.SRVPT.QF1.DS	BRI.MON.F1

BRI.SRVPT.DF1.US	
BRI.SRVPT.DF1.DS	
BRI.SRVPT.SF2	
BRI.SRVPT.QF2.US	
BRI.SRVPT.QF2.DS	BRI.MON.F2
BRI.SRVPT.DF2.US	
BRI.SRVPT.DF2.DS	
BRI.SRVPT.SF3	
BRI.SRVPT.QF3.US	
BRI.SRVPT.QF3.DS	BRI.MON.F3
BRI.SRVPT.SF4	
BRI.SRVPT.QF4.US	
BRI.SRVPT.QF4.DS	BRI.MON.F4
BRI.SRVPT.DF4.US	
BRI.SRVPT.DF4.DS	
BRI.SRVPT.SF5	
BRI.SRVPT.QF5.US	
BRI.SRVPT.QF5.DS	BRI.MON.F5
BRI.SRVPT.DF5.US	
BRI.SRVPT.DF5.DS	
BRI.SRVPT.SF6	
BRI.SRVPT.QF6.US	
BRI.SRVPT.QF6.DS	BRI.MON.F6
BRI.SRVPT.SF7	
BRI.SRVPT.QF7.US	
BRI.SRVPT.QF7.DS	BRI.MON.F7
BRI.SRVPT.DF7.US	
BRI.SRVPT.DF7.DS	
BRI.SRVPT.SF8	
BRI.SRVPT.QF8.US	
BRI.SRVPT.QF8.DS	BRI.MON.F8
BRI.SRVPT.DF8.US	
BRI.SRVPT.DF8.DS	

5-C. Names of STRAIGHT SECTION SEGMENTS

These names reflect the revised convention that the run UPSTREAM of a magnet has the same section designator as the magnet. In this usage, all items on the same strongback ("I"-Beam) have the same designator. In the case of the long straight section, the section designator applies from (a) the end of the quadrupole in that section through (b) the vacuum flange at the end of the region where the dipole would have been.

As a result, a straight section segment has the same designator as the magnet to the left of it -- just as at the AGS! [Thus, even though the beams in the two machines run in opposite senses, the relative physical positions of magnets and "straight sections" remains the same -- a boon to those who have to work inside both rings.]

Standard Element Name	(Straight Section Segments)
BRI.SS.A1S	(begins at end of F8 dipole)
BRI.SS.A1Q	
BRI.SS.A1D	
BRI.SS.A2S	
BRI.SS.A2Q	
BRI.SS.A2D	
BRI.SS.A3S	
BRI.SS.A3Q	
BRI.SS.A3L	Long Straight Section
BRI.SS.A4S	(begins at vacuum flange)
BRI.SS.A4Q	
BRI.SS.A4D	
BRI.SS.A5S	
BRI.SS.A5Q	
BRI.SS.A5D	
BRI.SS.A6S	
BRI.SS.A6Q	
BRI.SS.A6L	Long Straight Section
BRI.SS.A7S	(begins at vacuum flange)
BRI.SS.A7Q	
BRI.SS.A7D	
BRI.SS.A8S	
BRI.SS.A8Q	
BRI.SS.A8D	
BRI.SS.B1S	(begins at end of A8 dipole)
BRI.SS.B1Q	
BRI.SS.B1D	
BRI.SS.B2S	
BRI.SS.B2Q	
BRI.SS.B2D	
BRI.SS.B3S	
BRI.SS.B3Q	
BRI.SS.B3L	Long Straight Section
BRI.SS.B4S	(begins at vacuum flange)
BRI.SS.B4Q	
BRI.SS.B4D	
BRI.SS.B5S	
BRI.SS.B5Q	
BRI.SS.B5D	
BRI.SS.B6S	
BRI.SS.B6Q	
BRI.SS.B6L	Long Straight Section
BRI.SS.B7S	(begins at vacuum flange)
BRI.SS.B7Q	
BRI.SS.B7D	
BRI.SS.B8S	
BRI.SS.B8Q	
BRI.SS.B8D	
BRI.SS.C1S	(begins at end of B8 dipole)
BRI.SS.C1Q	

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BRI.SS.C1D
BRI.SS.C2S
BRI.SS.C2Q
BRI.SS.C2D
BRI.SS.C3S
BRI.SS.C3Q
BRI.SS.C3L       Long Straight Section
BRI.SS.C4S     (begins at vacuum flange)
BRI.SS.C4Q
BRI.SS.C4D
BRI.SS.C5S
BRI.SS.C5Q
BRI.SS.C5D
BRI.SS.C6S
BRI.SS.C6Q
BRI.SS.C6L       Long Straight Section
BRI.SS.C7S     (begins at vacuum flange)
BRI.SS.C7Q
BRI.SS.C7D
BRI.SS.C8S
BRI.SS.C8Q
BRI.SS.C8D

BRI.SS.D1S     (begins at end of C8 dipole)
BRI.SS.D1Q
BRI.SS.D1D
BRI.SS.D2S
BRI.SS.D2Q
BRI.SS.D2D
BRI.SS.D3S
BRI.SS.D3Q
BRI.SS.D3L       Long Straight Section
BRI.SS.D4S     (begins at vacuum flange)
BRI.SS.D4Q
BRI.SS.D4D
BRI.SS.D5S
BRI.SS.D5Q
BRI.SS.D5D
BRI.SS.D6S
BRI.SS.D6Q
BRI.SS.D6L       Long Straight Section
BRI.SS.D7S     (begins at vacuum flange)
BRI.SS.D7Q
BRI.SS.D7D
BRI.SS.D8S
BRI.SS.D8Q
BRI.SS.D8D

BRI.SS.E1S     (begins at end of D8 dipole)
BRI.SS.E1Q
BRI.SS.E1D
BRI.SS.E2S
BRI.SS.E2Q
BRI.SS.E2D
BRI.SS.E3S
BRI.SS.E3Q
BRI.SS.E3L       Long Straight Section
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BRI.SS.E4S      (begins at vacuum flange)
BRI.SS.E4Q
BRI.SS.E4D
BRI.SS.E5S
BRI.SS.E5Q
BRI.SS.E5D
BRI.SS.E6S
BRI.SS.E6Q
BRI.SS.E6L        Long Straight Section
BRI.SS.E7S      (begins at vacuum flange)
BRI.SS.E7Q
BRI.SS.E7D
BRI.SS.E8S
BRI.SS.E8Q
BRI.SS.E8D

BRI.SS.F1S     (begins at end of E8 dipole)
BRI.SS.F1Q
BRI.SS.F1D
BRI.SS.F2S
BRI.SS.F2Q
BRI.SS.F2D
BRI.SS.F3S
BRI.SS.F3Q
BRI.SS.F3L        Long Straight Section
BRI.SS.F4S      (begins at vacuum flange)
BRI.SS.F4Q
BRI.SS.F4D
BRI.SS.F5S
BRI.SS.F5Q
BRI.SS.F5D
BRI.SS.F6S
BRI.SS.F6Q
BRI.SS.F6L        Long Straight Section
BRI.SS.F7S      (begins at vacuum flange)
BRI.SS.F7Q
BRI.SS.F7D
BRI.SS.F8S
BRI.SS.F8Q
BRI.SS.F8D
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