

# Fiducial Data Summary for 50Q Rafts

50Q-44

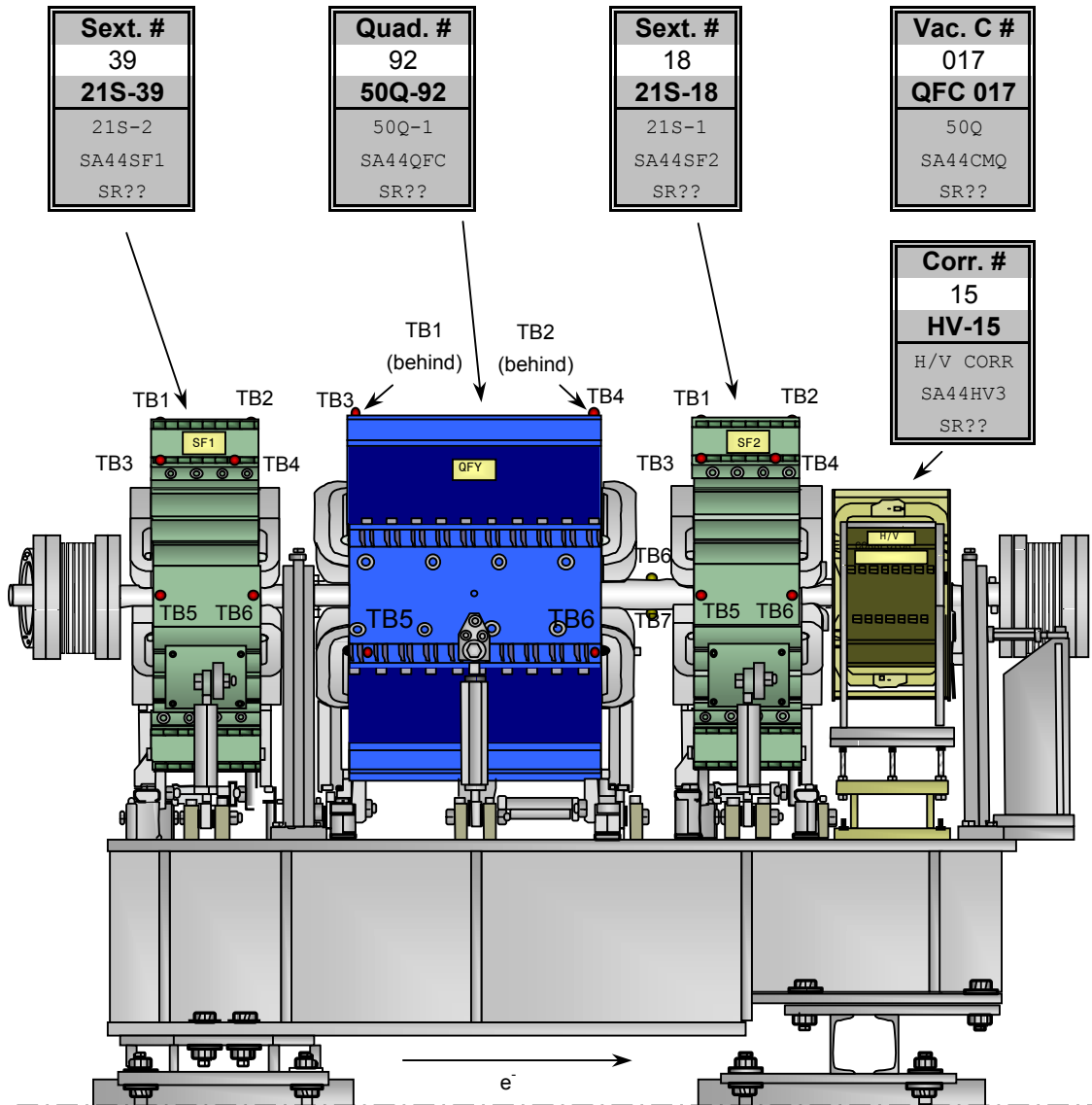
Raft Description:

Date February 11, 2002

<b>Raft #</b> 44 50Q-44	<b>Type</b> 2 50Q T-2	<b>Bld. 750 Name</b> SA44	<b>S3 Ring Name</b> SR??
-------------------------------	-----------------------------	------------------------------	-----------------------------

Notes:

The above date represents the latest fiducial date of all components listed below.  
SPEAR3 Ring number not yet known.



**Sextupole: Fiducial Values for Upstream (21S-2) Sextupole**

Fiducial	Z	X	Y
TB1	-3.745	4.202	15.510
TB2	3.719	4.247	15.513
TB3	-3.625	-10.519	12.529
TB4	2.288	-10.503	12.539
TB5	-3.788	-15.062	0.026
TB6	3.766	-15.063	0.034

inches      inches      inches

SEXTUPOLE  
**21S-39**

SA44SF1  
SR??

1/17/02

**Description:**  
Fiducials based on values posted on web-page. (Check for updates.)

**Quadrupole: Fiducial Values for Quadrupole (50Q-1)**

Fiducial	Z	X	Y
TB1	-9.466	11.221	16.204
TB2	9.457	11.233	16.205
TB3	-9.450	-11.248	16.206
TB4	9.471	-11.234	16.205
TB5	-8.327	-15.201	-4.788
TB6	9.395	-15.201	-4.812

inches      inches      inches

QUADRUPOLE  
**50Q-92**

SA44QFC  
SR??

10/30/01

**Description:**  
Fiducials based on values posted on web-page. (Check for updates.)

**Sextupole: Fiducial Values for Downstream (21S-1) Sextupole**

Fiducial	Z	X	Y
TB1	-3.535	4.221	15.513
TB2	3.552	4.203	15.514
TB3	-3.650	-10.514	12.531
TB4	2.302	-10.508	12.535
TB5	-3.753	-15.061	0.007
TB6	3.791	-15.062	0.007

inches      inches      inches

**SEXTUPOLE**  
**21S-18**

SA44SF2  
SR??

2/11/02

**Description:**  
Fiducials based on values posted on web-page. (Check for updates.)

**H/V Corrector: Fiducial Values for Corrector**

Fiducial	Z	X	Y
1	-0.003	-0.323	-10.196
2	-0.002	-10.046	-10.205
A	0.000	-20.003	0.000
B	0.000	-20.003	0.000
C	0.000	-20.003	0.000
D	0.000	-20.003	0.000
E	0.000	0.000	17.935
F	0.000	0.000	17.935

inches      inches      inches

**H/V CORRECTOR**  
**HV-15**

SA44HV3  
SR??

No Date

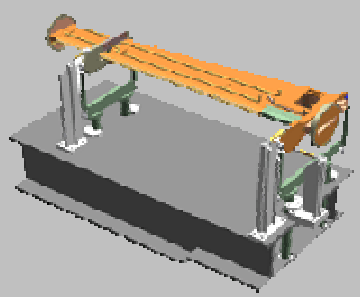
**Description:**  
Fiducials based on known nominal values.

**Vacuum Chamber: Fiducial Values for QFC (50Q) Vacuum Chamber**

Fiducial	Z	X	Y
TB1	-13.811	-3.430	4.409
TB2	-13.745	7.290	4.375
TB3	37.503	-5.469	4.404
TB4	37.588	13.357	2.967
TB5	33.422	7.566	2.085
TB6	N/A	N/A	N/A
TB7	N/A	N/A	N/A

inches      inches      inches

**VACUUM CHAMBER**  
**QFC 017**



SA44CMQ  
SR??

1/31/02

**Description:**  
Fiducials based on values posted on web-page. (Check for updates.)

**Building 750 Deck: Positions of Component Origins**

750 Name	Z	X	Y	Yaw
SA44SF1	-0.535	-3.500	0.000	0.0000
SA44QFC	0.000	-3.500	0.000	0.0000
SA44CMQ	0.000	-3.500	0.000	0.0000
SA44SF2	0.535	-3.500	0.000	0.0000

meters      meters      meters      degrees

Date of Deck File: April 16, 2002

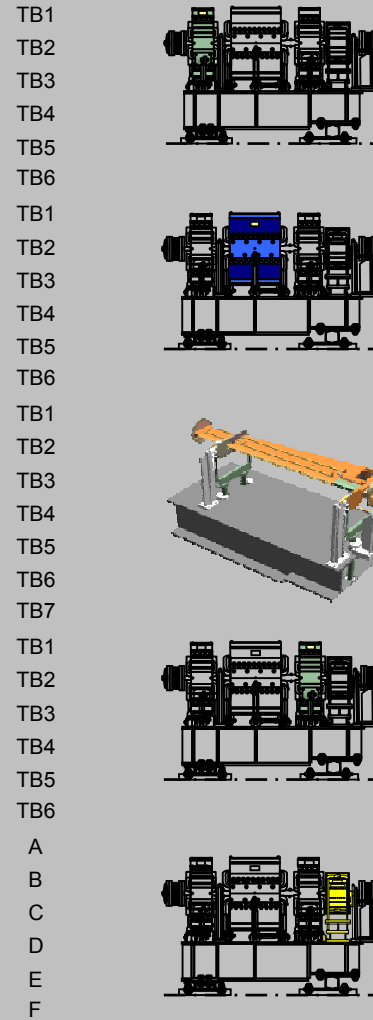
Location of Raft: WEST

50Q-44

**Description:**  
Deck coordinates representing origin of the specific component's coordinate system.

**Building 750 As-Built:**

750 Name	delta Z	delta X	delta Y ( delta H )
SA44SF1	0.003	-0.003	-0.005
	0.000	-0.005	-0.005
	-0.001	-0.003	-0.003
	N/A	N/A	N/A
	-0.006	-0.003	-0.003
	-0.002	-0.006	-0.005
SA44QFC	-0.004	-0.001	0.005
	-0.005	-0.001	0.008
	-0.004	0.001	0.002
	-0.001	0.001	0.004
	-0.005	0.006	0.002
	-0.007	0.005	0.007
SA44CMQ	-0.004	0.005	-0.003
	-0.001	0.000	0.001
	0.031	0.006	-0.003
	-0.005	-0.004	0.001
	0.000	-0.002	0.003
	N/A	N/A	N/A
	N/A	N/A	N/A
SA44SF2	-0.002	0.001	-0.004
	-0.002	0.001	-0.004
	0.006	-0.002	-0.003
	0.007	-0.001	-0.002
	0.000	0.000	-0.004
	0.006	0.000	-0.003
SA44HV3		-0.005	
		-0.010	
		0.011	
		0.002	
			0.005
			0.002
	inches	inches	inches



Latest File Date: April 17, 2002

**50Q-44**

**Description:**

Values representing the difference between the design and actual fiducial measurements.