

# Fiducial Data Summary for 50Q Rafts

50Q-46

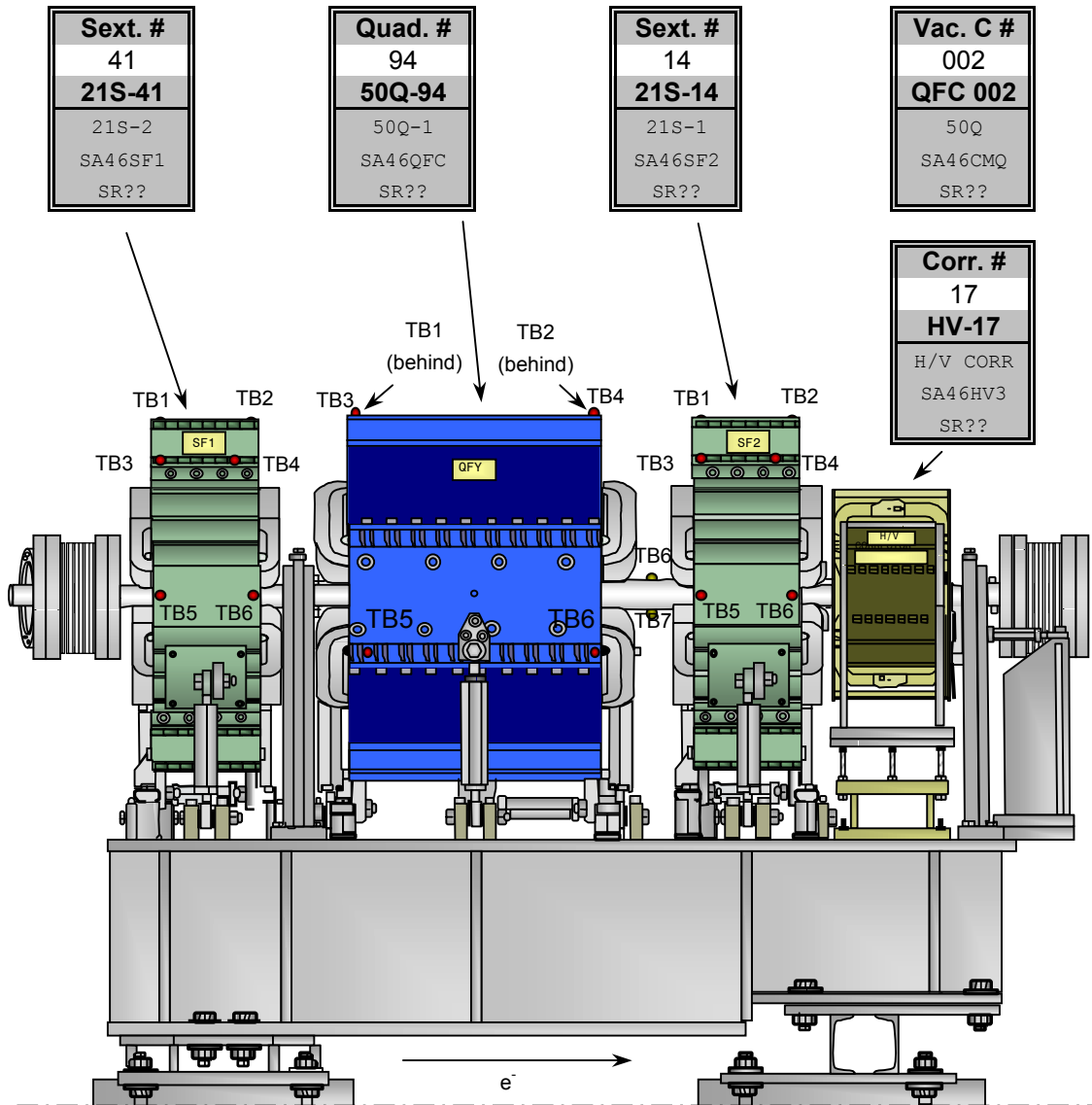
Raft Description:

Date January 22, 2002

<b>Raft #</b> 46 50Q-46	<b>Type</b> 2 50Q T-2	<b>Bld. 750 Name</b> SA46	<b>S3 Ring Name</b> SR??
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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	-3.779	4.232	15.505
TB2	3.747	4.248	15.505
TB3	-3.644	-10.519	12.529
TB4	2.267	-10.515	12.531
TB5	-3.752	-15.063	0.028
TB6	3.748	-15.062	0.033

inches      inches      inches

**SEXTUPOLE  
21S-41**

SA46SF1  
SR??

1/22/02

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

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

Fiducial	Z	X	Y
TB1	-9.485	11.292	16.205
TB2	9.480	11.255	16.205
TB3	-9.463	-11.247	16.205
TB4	9.473	-11.252	16.200
TB5	-8.360	-15.202	-4.695
TB6	9.211	-15.202	-4.722

inches      inches      inches

**QUADRUPOLE  
50Q-94**

SA46QFC  
SR??

1/3/02

**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	-3.659	4.214	15.512
TB2	3.640	4.203	15.511
TB3	-3.629	-10.496	12.540
TB4	2.267	-10.531	12.520
TB5	-3.733	-15.062	0.016
TB6	3.762	-15.061	-0.001

inches      inches      inches

SEXTUPOLE  
**21S-14**

SA46SF2  
SR??

1/2/02

**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-17**

SA46HV3  
SR??

No Date

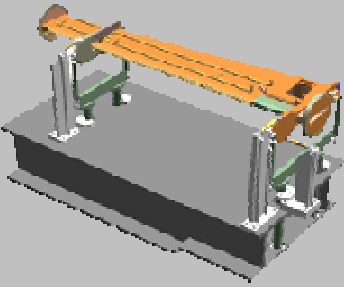
**Description:**  
Fiducials based on known nominal values.

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

Fiducial	Z	X	Y
TB1	-13.799	-3.401	4.430
TB2	-13.826	7.304	4.358
TB3	37.499	-5.450	4.389
TB4	37.561	13.240	2.968
TB5	33.430	7.565	2.066
TB6	13.401	2.585	2.374
TB7	N/A	N/A	N/A

inches          inches          inches

**VACUUM CHAMBER**  
**QFC 002**



SA46CMQ  
SR??

1/15/02

**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
SA46SF1	-0.535	-3.500	0.000	0.0000
SA46QFC	0.000	-3.500	0.000	0.0000
SA46CMQ	0.000	-3.500	0.000	0.0000
SA46SF2	0.535	-3.500	0.000	0.0000

meters          meters          meters          degrees

Date of Deck File: July 22, 2002

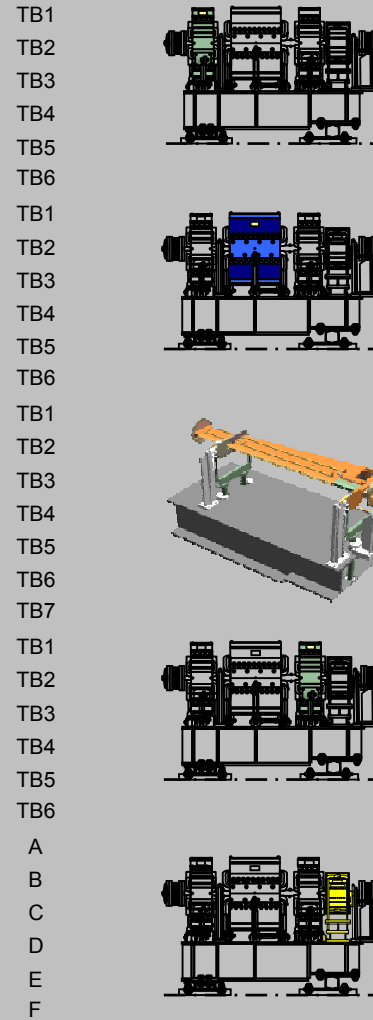
Location of Raft: WEST

50Q-46

**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 )
SA46SF1	-0.007	-0.001	0.005
	-0.009	0.006	0.002
	0.003	0.002	0.003
	-0.001	-0.002	0.002
	0.005	-0.012	0.005
	0.002	-0.005	0.000
SA46QFC	-0.006	0.003	-0.001
	-0.005	0.006	-0.005
	-0.002	0.004	0.001
	-0.008	0.005	-0.001
	-0.005	-0.003	-0.005
	-0.013	0.003	-0.003
SA46CMQ	0.011	-0.003	0.003
	0.004	0.004	0.001
	-0.004	-0.004	0.000
	0.004	-0.013	-2.998
	0.011	0.004	0.003
	0.006	0.004	0.027
	N/A	N/A	N/A
SA46SF2	0.030	0.008	0.003
	0.027	-0.003	0.004
	-0.005	-0.004	0.004
	-0.001	-0.004	0.005
	-0.004	0.002	-0.001
	-0.008	-0.003	0.001
SA46HV3		-0.009	
		0.001	
		-0.010	
		-0.005	
			0.000
			0.002
	inches	inches	inches



Latest File Date: May 17, 2002

**50Q-46**

**Description:**

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