

# Fiducial Data Summary for 50Q Rafts

50Q-42

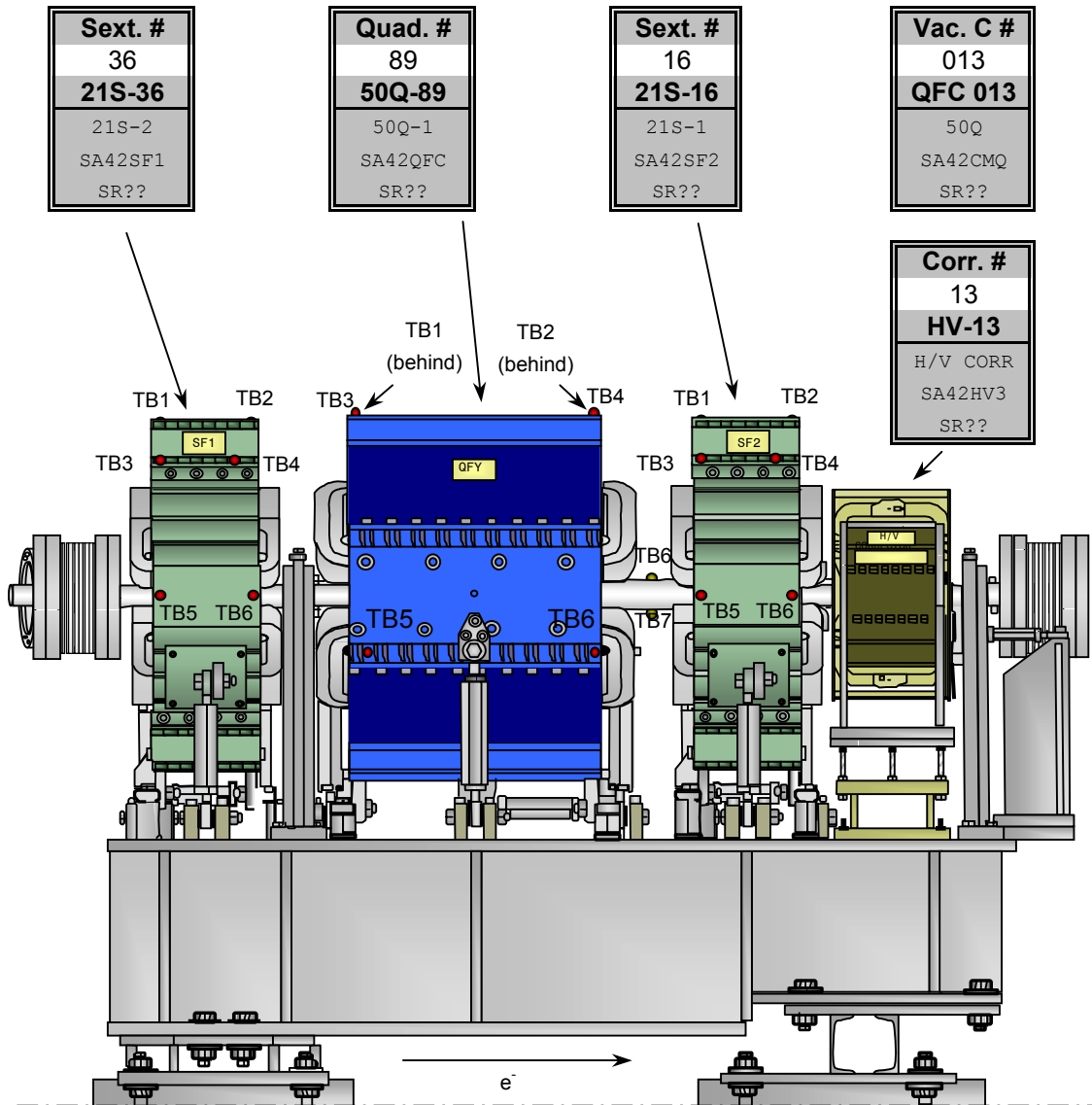
Raft Description:

**Date** February 22, 2002

<b>Raft #</b> 42 50Q-42	<b>Type</b> 1 50Q T-1	<b>Bld. 750 Name</b> SA42	<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	-3.659	4.245	15.509
TB2	3.714	4.202	15.508
TB3	-3.646	-10.511	12.534
TB4	2.244	-10.507	12.535
TB5	-3.752	-15.062	0.011
TB6	3.770	-15.064	0.018

inches      inches      inches

**SEXTUPOLE**  
**21S-36**

SA42SF1  
SR??

12/19/01

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

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

Fiducial	Z	X	Y
TB1	-9.437	11.239	16.202
TB2	9.464	11.233	16.205
TB3	-9.442	-11.233	16.206
TB4	9.449	-11.247	16.204
TB5	-8.392	-15.200	-4.718
TB6	9.349	-15.202	-4.691

inches      inches      inches

**QUADRUPOLE**  
**50Q-89**

SA42QFC  
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	-3.720	4.206	15.508
TB2	3.728	4.233	15.506
TB3	-3.602	-10.498	12.540
TB4	2.307	-10.520	12.528
TB5	-3.720	-15.062	0.031
TB6	3.756	-15.063	0.033

inches      inches      inches

**SEXTUPOLE**  
**21S-16**

SA42SF2  
SR??

1/18/02

**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-13**

SA42HV3  
SR??

No Date

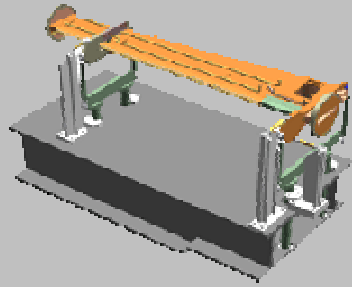
**Description:**  
Fiducials based on known nominal values.

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

Fiducial	Z	X	Y
TB1	-13.793	-3.429	4.403
TB2	-13.824	7.273	4.369
TB3	37.454	-5.433	4.416
TB4	37.535	13.291	2.992
TB5	33.424	7.564	2.095
TB6	N/A	N/A	N/A
TB7	N/A	N/A	N/A

inches      inches      inches

**VACUUM CHAMBER**  
**QFC 013**



SA42CMQ  
SR??

2/22/02

**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
SA42SF1	-0.535	-3.500	0.000	0.0000
SA42QFC	0.000	-3.500	0.000	0.0000
SA42CMQ	0.000	-3.500	0.000	0.0000
SA42SF2	0.535	-3.500	0.000	0.0000

meters      meters      meters      degrees

Date of Deck File: April 16, 2002

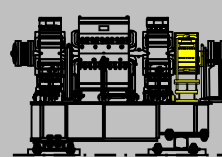
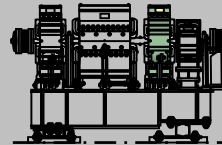
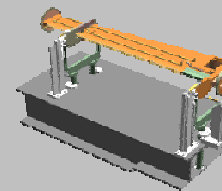
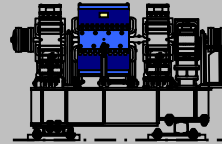
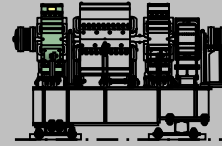
Location of Raft: WEST 50Q-42

**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 )
SA42SF1	-0.008	0.004	0.003
	-0.010	0.006	0.003
	-0.013	0.001	0.001
	-0.007	0.003	0.001
	-0.017	0.004	0.001
	-0.012	0.001	0.001
SA42QFC	-0.002	-0.004	0.002
	-0.001	-0.007	0.005
	-0.005	-0.001	0.000
	-0.008	0.003	0.001
	-0.001	-0.005	0.000
	0.001	0.000	0.000
SA42CMQ	0.002	0.002	-0.001
	0.001	-0.001	0.004
	0.015	-0.005	-0.002
	0.001	-0.001	-0.004
	0.003	0.000	0.009
	N/A	N/A	N/A
	N/A	N/A	N/A
SA42SF2	-0.009	0.001	-0.001
	-0.006	0.004	0.006
	-0.002	0.005	-0.001
	0.006	0.005	0.002
	0.008	0.004	-0.001
	0.012	0.004	0.003
SA42HV3		0.012	
		0.010	
		0.014	
		0.008	
			-0.002
			-0.004
	inches	inches	inches

TB1  
TB2  
TB3  
TB4  
TB5  
TB6  
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TB7  
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TB3  
TB4  
TB5  
TB6  
A  
B  
C  
D  
E  
F



Latest File Date: March 21, 2002

**50Q-42**

**Description:**

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