

# Fiducial Data Summary for 50Q Rafts

50Q-31

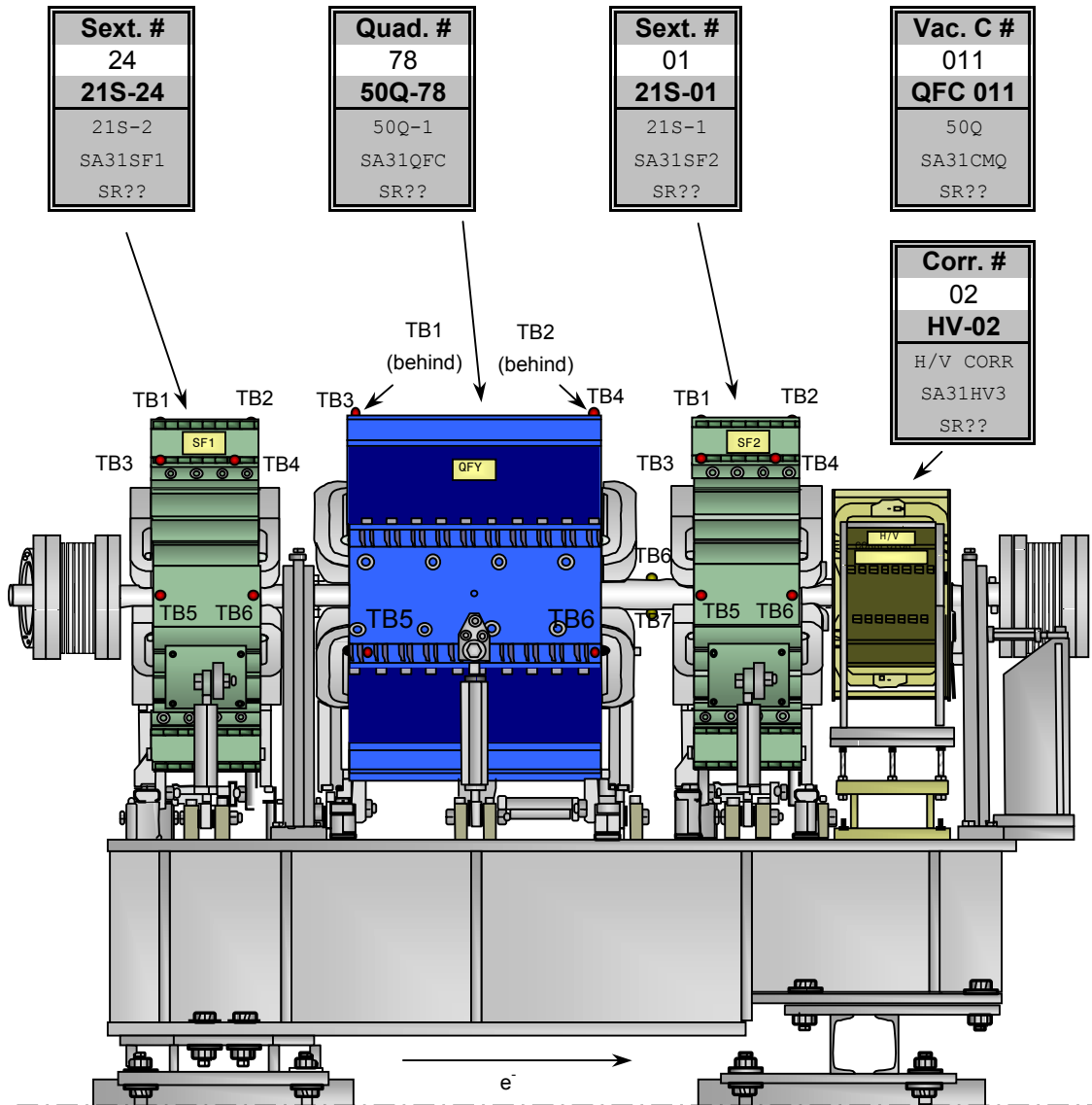
Raft Description:

Date October 26, 2001

<b>Raft #</b> 31 50Q-31	<b>Type</b> 1 50Q T-1	<b>Bld. 750 Name</b> SA31	<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	-3.543	4.214	15.511
TB2	3.548	4.195	15.509
TB3	-3.622	-10.496	12.544
TB4	2.337	-10.506	12.535
TB5	-3.779	-15.062	0.052
TB6	3.771	-15.062	0.041

inches          inches          inches

**SEXTUPOLE  
21S-24**

SA31SF1  
SR??

10/26/01

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

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

Fiducial	Z	X	Y
TB1	-9.477	11.249	16.204
TB2	9.462	11.246	16.201
TB3	-9.469	-11.247	16.203
TB4	9.473	-11.247	16.203
TB5	-8.356	-15.201	-4.716
TB6	9.229	-15.200	-4.717

inches          inches          inches

**QUADRUPOLE  
50Q-78**

SA31QFC  
SR??

10/19/01

**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	-3.576	4.207	15.512
TB2	3.550	4.187	15.507
TB3	-3.648	-10.527	12.520
TB4	2.269	-10.523	12.522
TB5	-3.749	-15.060	0.036
TB6	3.741	-15.062	0.032

inches      inches      inches

SA31SF2  
SR??

10/12/01

**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

SA31HV3  
SR??

No Date

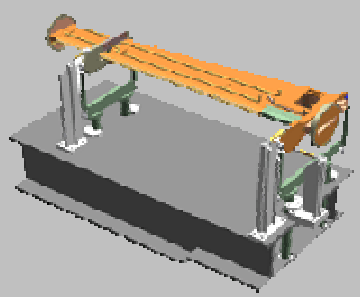
**Description:**  
Fiducials based on known nominal values.

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

Fiducial	Z	X	Y
TB1	-13.793	-3.392	4.408
TB2	-13.816	7.284	4.368
TB3	37.454	-5.393	4.413
TB4	37.564	13.328	2.974
TB5	33.458	7.579	2.068
TB6	13.429	2.626	2.382
TB7	13.415	2.651	-2.363

inches      inches      inches

**VACUUM CHAMBER**  
**QFC 011**



SA31CMQ  
SR??

8/28/01

**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
SA31SF1	-0.535	-3.500	0.000	0.0000
SA31QFC	0.000	-3.500	0.000	0.0000
SA31CMQ	0.000	-3.500	0.000	0.0000
SA31SF2	0.535	-3.500	0.000	0.0000

meters      meters      meters      degrees

Date of Deck File: April 16, 2002

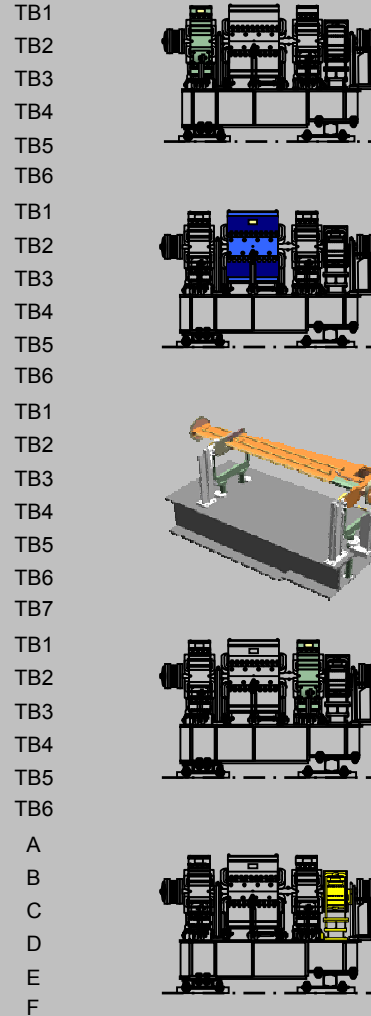
Location of Raft: WEST

50Q-31

**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 )
SA31SF1	0.004	-0.005	-0.004
	0.001	-0.001	-0.005
	0.000	0.004	-0.002
	-0.002	-0.006	-0.002
	-0.006	0.003	0.002
	-0.007	0.002	-0.002
SA31QFC	0.005	0.001	-0.006
	0.000	-0.001	-0.002
	0.001	0.006	0.000
	-0.004	0.003	0.002
	-0.003	0.002	0.003
	-0.005	-0.003	0.000
SA31CMQ	0.010	-0.002	0.001
	0.012	-0.003	0.001
	-0.004	0.007	-0.006
	0.005	-0.001	-0.001
	0.001	-0.001	-0.005
	0.006	0.000	-0.014
	N/A	N/A	N/A
SA31SF2	-0.003	0.009	-0.007
	-0.004	0.003	-0.007
	0.000	-0.001	-0.004
	-0.004	-0.001	-0.006
	-0.008	0.005	-0.005
	-0.008	0.000	-0.005
SA31HV3		-0.041	
		-0.044	
		-0.032	
		-0.027	
			0.038
			0.027
	inches	inches	inches



Latest File Date: February 22, 2002

**50Q-31**

**Description:**

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