

Fid. Data Summary for 145D-2 Rafts

145D-61

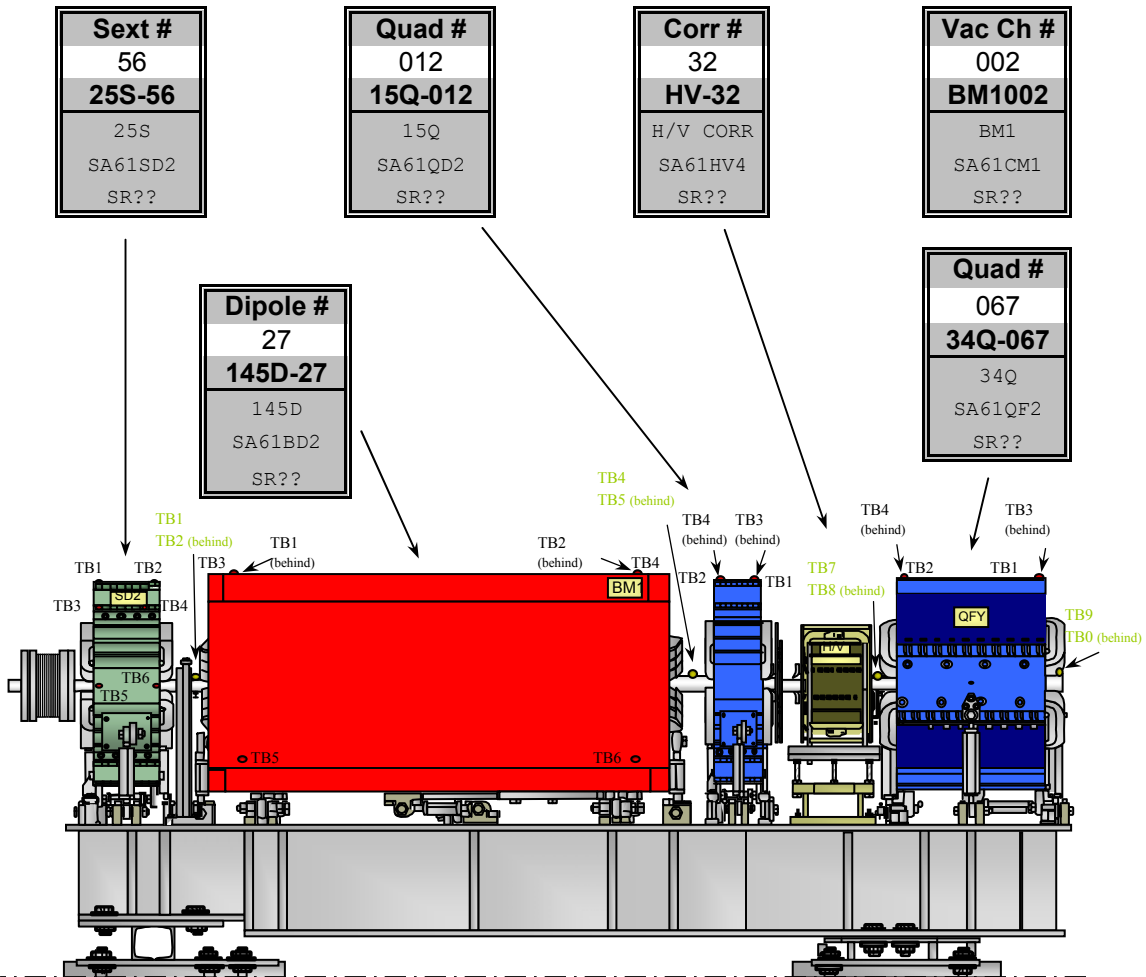
Raft Description:

Date May 7, 2002

| | | | |
|--------------------------------|------------------------------|------------------------------|-----------------------------|
| Raft # 61 145D-61 | Type 2 145D T-2 | Bld. 750 Name SA61 | S3 Ring Name SR?? |
|--------------------------------|------------------------------|------------------------------|-----------------------------|

Notes:

The above date represents the latest fiducial date of all components listed below.



Sextupole: Fiducial Values for 25S Sextupole

| Fiducial | Z | X | Y |
|----------|--------|---------|--------|
| TB1 | -4.335 | 4.215 | 15.503 |
| TB2 | 4.292 | 4.211 | 15.509 |
| TB3 | -4.444 | -10.490 | 12.544 |
| TB4 | 3.463 | -10.533 | 12.522 |
| TB5 | -4.609 | -15.069 | -0.006 |
| TB6 | 4.543 | -15.070 | 0.061 |

inches inches inches

**SEXTUPOLE
25S-56**

SA61SD2
SR??

7/10/01

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

Gradient Dipole: Fiducial Values for Dipole (145D)

| Fiducial | Z | X | Y |
|----------|---------|---------|---------|
| TB1 | -26.545 | 3.432 | 16.997 |
| TB2 | 26.545 | 3.428 | 17.007 |
| TB3 | -26.543 | -22.413 | 16.993 |
| TB4 | 26.611 | -22.397 | 17.000 |
| TB5 | -26.438 | -24.250 | -11.448 |
| TB6 | 26.532 | -24.249 | -11.485 |

inches inches inches

**GRADIENT DIPOLE
145D-27**

SA61BD2
SR??

10/17/01

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

Quadrupole: Fiducial Values for Upstream (15Q) Quadrupole

| Fiducial | Z | X | Y |
|----------|--------|---------|--------|
| TB1 | -2.584 | 11.250 | 16.205 |
| TB2 | 2.564 | 11.246 | 16.209 |
| TB3 | -2.578 | -11.260 | 16.201 |
| TB4 | 2.565 | -11.241 | 16.200 |
| TB5 | -1.421 | -15.207 | -4.740 |
| TB6 | 2.395 | -15.207 | -4.708 |

inches inches inches

SA61QD2
SR??

8/23/01

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

SA61HV4
SR??

No Date

Description:
Fiducials based on known nominal values.

Quadrupole: Fiducial Values for Downstream (34Q) Quadrupole

| Fiducial | Z | X | Y |
|----------|--------|---------|--------|
| TB1 | -6.318 | 11.247 | 16.200 |
| TB2 | 6.314 | 11.245 | 16.203 |
| TB3 | -6.322 | -11.251 | 16.202 |
| TB4 | 6.351 | -11.260 | 16.203 |
| TB5 | -5.172 | -15.203 | -4.786 |
| TB6 | 4.641 | -15.201 | -4.789 |

QUADRUPOLE
34Q-067

SA61QF2
SR??

7/5/01

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

Vacuum Chamber: Fiducial Values for BM1 Vacuum Chamber

| Fiducial | Z | X | Y |
|----------|---------|---------|-------|
| TB1 | -34.831 | 1.468 | 4.377 |
| TB2 | -34.807 | 8.479 | 4.374 |
| TB3 | 10.996 | 4.239 | 2.346 |
| TB4 | 34.589 | -4.996 | 4.353 |
| TB5 | 36.608 | 6.266 | 4.313 |
| TB6 | 52.448 | -1.873 | 2.221 |
| TB7 | 55.578 | -11.201 | 3.009 |
| TB8 | 59.447 | 8.944 | 2.922 |
| TB9 | 74.651 | -20.292 | 4.402 |
| TB0 | 76.951 | -8.044 | 4.399 |

VACUUM CHAMBER
BM1002

SA61CM1
SR??

5/7/02

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 |
|----------|--------|--------|--------|----------|
| SA61SD2 | 1.367 | 0.000 | 0.000 | 0.0000 |
| SA61CM1 | 2.450 | 0.000 | 0.000 | 0.0000 |
| SA61BD2 | 2.447 | -0.034 | 0.000 | -5.2941 |
| SA61QD2 | 3.485 | -0.194 | 0.000 | -10.5882 |
| SA61QF2 | 4.114 | -0.311 | 0.000 | -10.5882 |
| | meters | meters | meters | degrees |

Date of Deck File:

145D-61

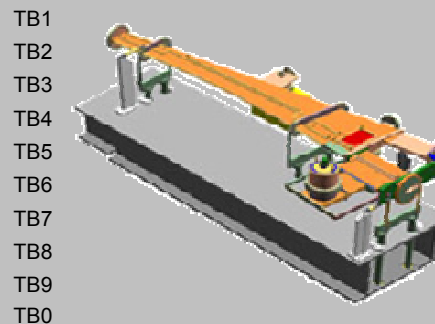
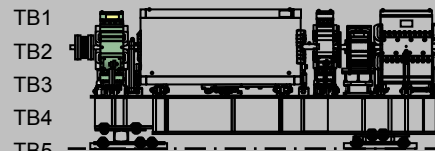
Location of Raft: EAST

Description:

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

Building 750 As-Built: (TABLE 1 of 2)

| 750 Name | delta Z | delta X | delta Y (delta H) |
|----------|---------|---------|----------------------|
| SA61SD2 | -0.005 | 0.008 | -0.006 |
| | -0.010 | 0.006 | -0.003 |
| | -0.003 | 0.006 | -0.005 |
| | -0.005 | 0.010 | -0.002 |
| | 0.002 | 0.000 | -0.002 |
| | -0.002 | 0.000 | -0.001 |
| SA61CM1 | 0.008 | 0.000 | -0.002 |
| | -0.007 | -0.002 | 0.002 |
| | -0.006 | 0.004 | -0.009 |
| | 0.005 | 0.007 | -0.003 |
| | 0.003 | 0.003 | 0.001 |
| | -0.001 | 0.004 | -0.008 |
| | -0.002 | 0.004 | -0.008 |
| | 0.007 | 0.006 | -0.002 |
| | 0.003 | 0.003 | 0.005 |
| | 0.003 | -0.002 | -0.004 |
| | inches | inches | inches |



Latest File Date:

145D-61

Description:

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

Building 750 As-Built: (TABLE 2 of 2)

| 750 Name | delta Z | delta X | delta Y (delta H) | |
|----------|---------|---------|------------------------|-----|
| SA61BD2 | 0.004 | 0.001 | -0.001 | TB1 |
| | -0.009 | -0.010 | -0.003 | TB2 |
| | 0.004 | 0.004 | -0.002 | TB3 |
| | -0.010 | -0.001 | 0.000 | TB4 |
| | 0.002 | 0.004 | 0.005 | TB5 |
| | -0.008 | -0.002 | 0.004 | TB6 |
| SA61QD2 | -0.003 | -0.004 | -0.001 | TB1 |
| | 0.000 | -0.002 | 0.000 | TB2 |
| | -0.011 | -0.001 | -0.001 | TB3 |
| | -0.007 | 0.000 | -0.003 | TB4 |
| | 0.000 | 0.000 | 0.000 | TB5 |
| | -0.015 | 0.002 | -0.004 | TB6 |
| SA61HV4 | | 0.008 | | A |
| | | 0.010 | | B |
| | | 0.006 | | C |
| | | 0.001 | | D |
| | | | 0.002 | E |
| | | | 0.002 | F |
| SA61QF2 | -0.013 | -0.009 | 0.002 | TB1 |
| | -0.018 | -0.001 | 0.005 | TB2 |
| | -0.001 | -0.004 | -0.001 | TB3 |
| | -0.002 | 0.006 | 0.001 | TB4 |
| | 0.008 | -0.004 | 0.000 | TB5 |
| | 0.006 | 0.006 | 0.001 | TB6 |
| | inches | inches | inches | |

Latest File Date: December 2, 2002

145D-61

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