LIGO Laboratory

California Institute of Technology
MS 18-34, 1200 E. California Blvd.
Pasadena CA 91125 USA
TEL: 626.395.2129
FAX: 626.304.9834
www.ligo.caltech.edu

LIGO Livingston Observatory
P.O. Box 940
Livingston LA 70754 USA
TEL: 225.686.3100
FAX: 225.686.7189
www.ligo-la.caltech.edu

LIGO Hanford Observatory
P.O. Box 159
Richland WA 99352 USA
TEL: 509.372.8106
FAX: 509.372.8137
www.ligo-wa.caltech.edu

Massachusetts Institute of Technology
MIT NW22 – 295, 185 Albany St.
Cambridge MA 02139 USA
TEL: 617.253.4824
FAX: 617.253.7014
www.ligo.mit.edu

Date:	September 10, 2010	Refer to:	E1000404-v1
Subject:	Arm Cavity Baffle Interface in BSC Chambers H1, H2 for AdvLIGO		
To:			
From:	Calum Torrie, Eduardo Chavez		

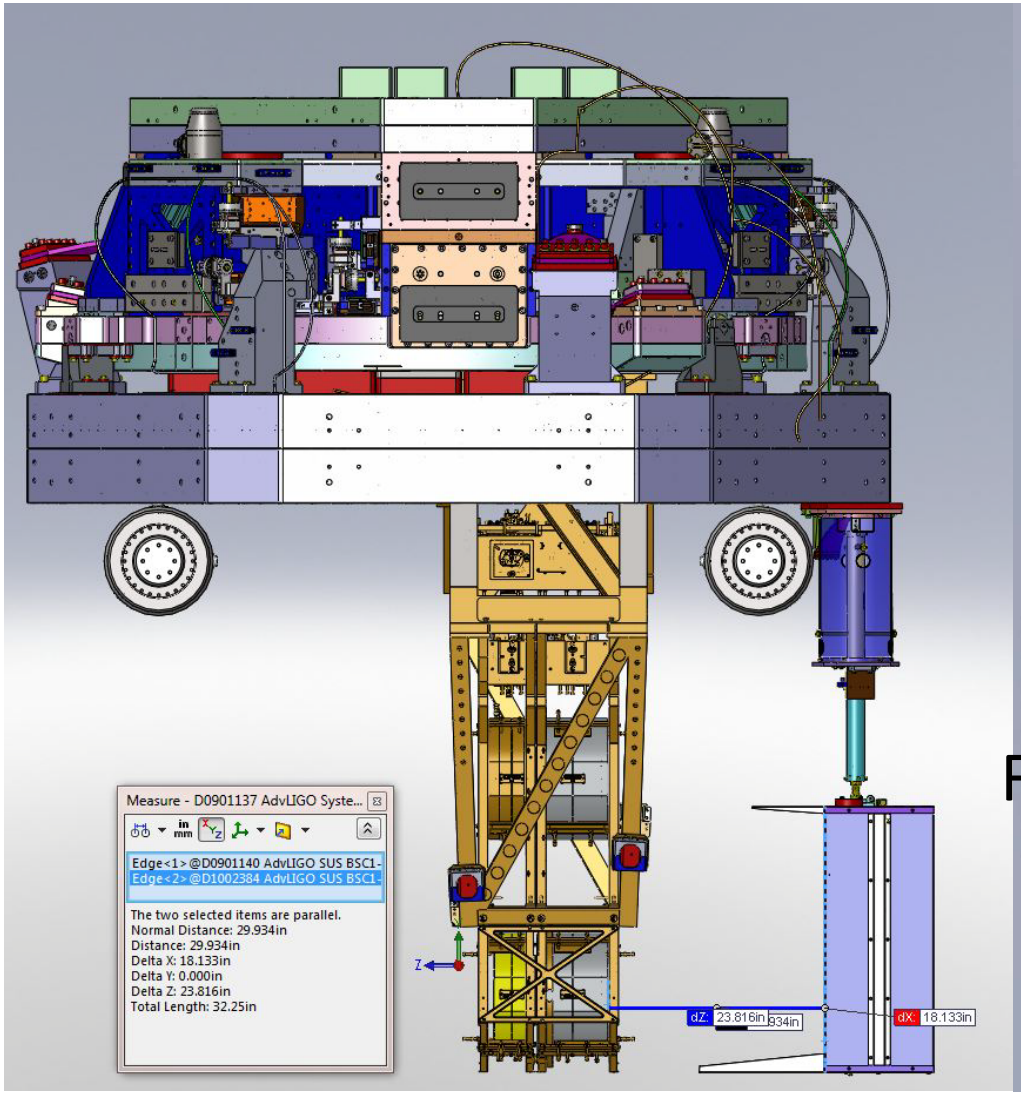
1. Chart Summarizing ACB distances

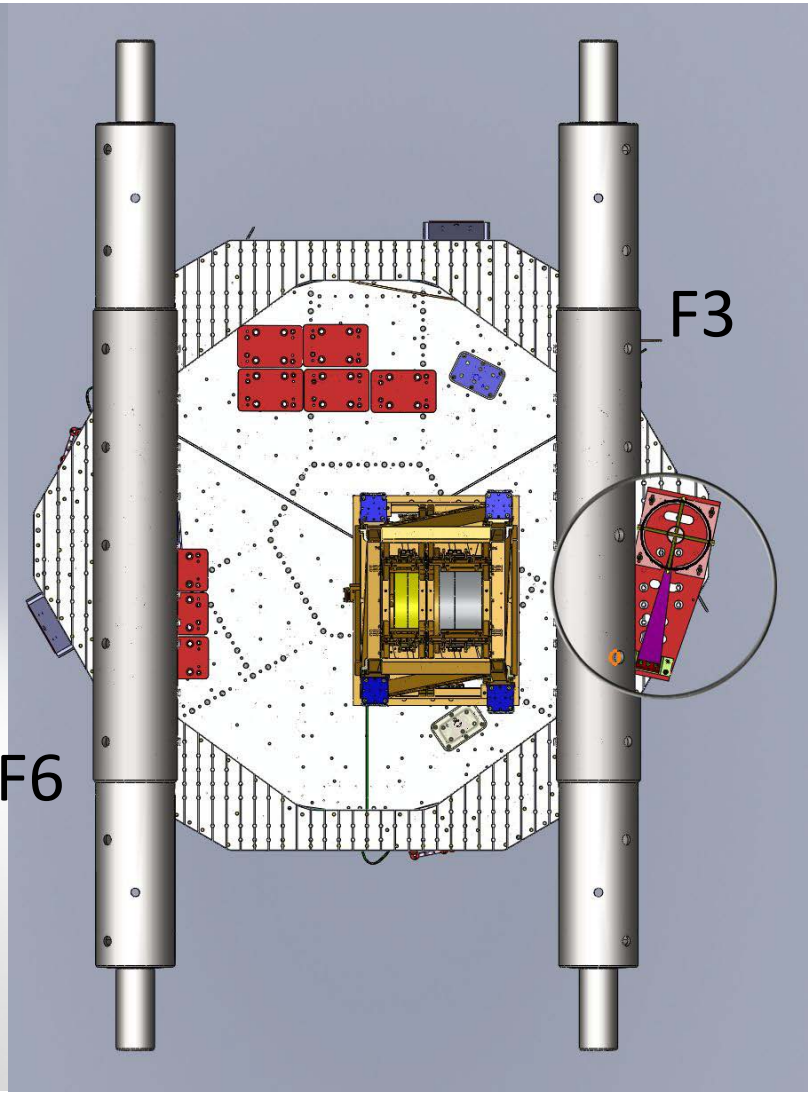
CHAMBER	Arm Cavity Baffle DISTANCE (inches)	Comments
BSC1-H1	18.13	
BSC3-H1	23.70	
BSC9-H1	18.01	Support tubes are parallel to ACB
BSC10-H1	18.05	Support tubes are parallel to ACB
BSC5-H2	17.0	Support tubes are parallel to ACB
BSC6-H2	17.1	Support tubes are parallel to ACB
BSC7-H2	16.17	Support tubes are parallel to ACB
BSC8-H2	17.07	Support tubes are parallel to ACB

2. Detailed Screen Shots of each Chamber

Following are detailed screen shots for each of the Chambers listed in the last chart, except for BSC1, BSC3, BSC4 and BSC5 for L1.

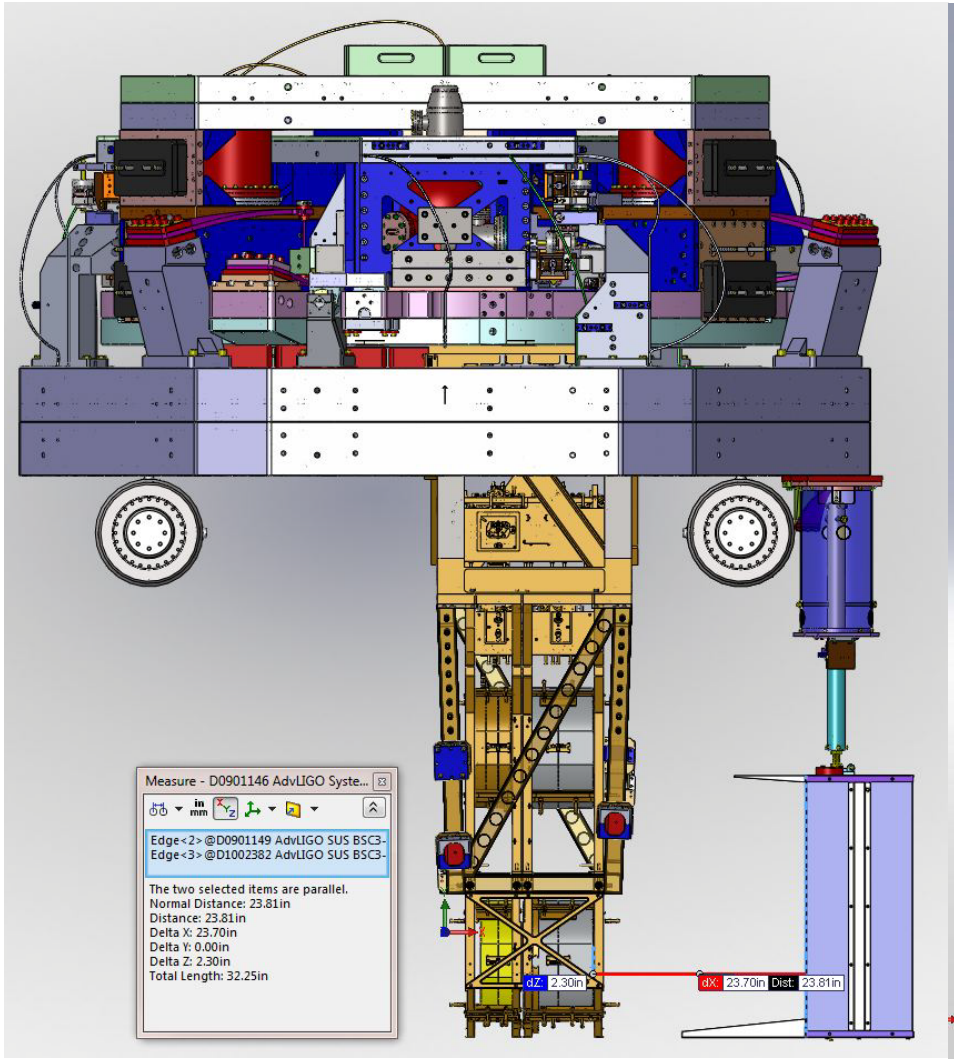
- BSC1-H1 (D0901137)

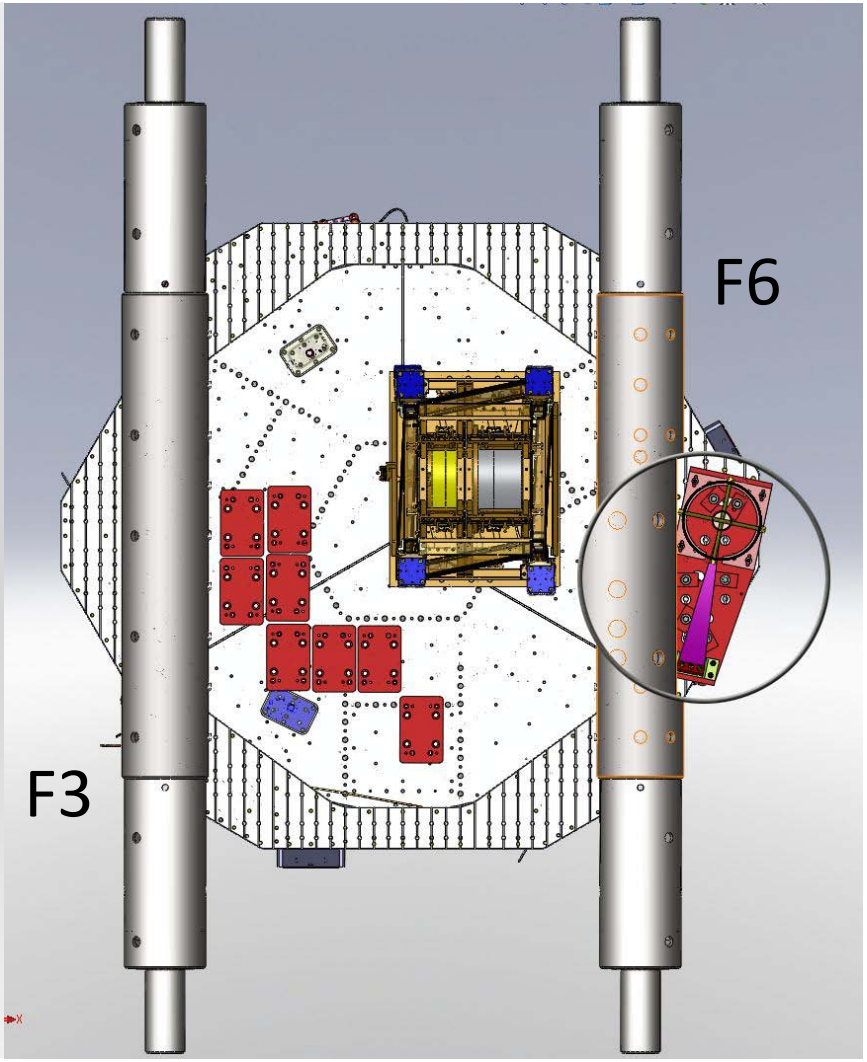




DISTANCE = 18.13”

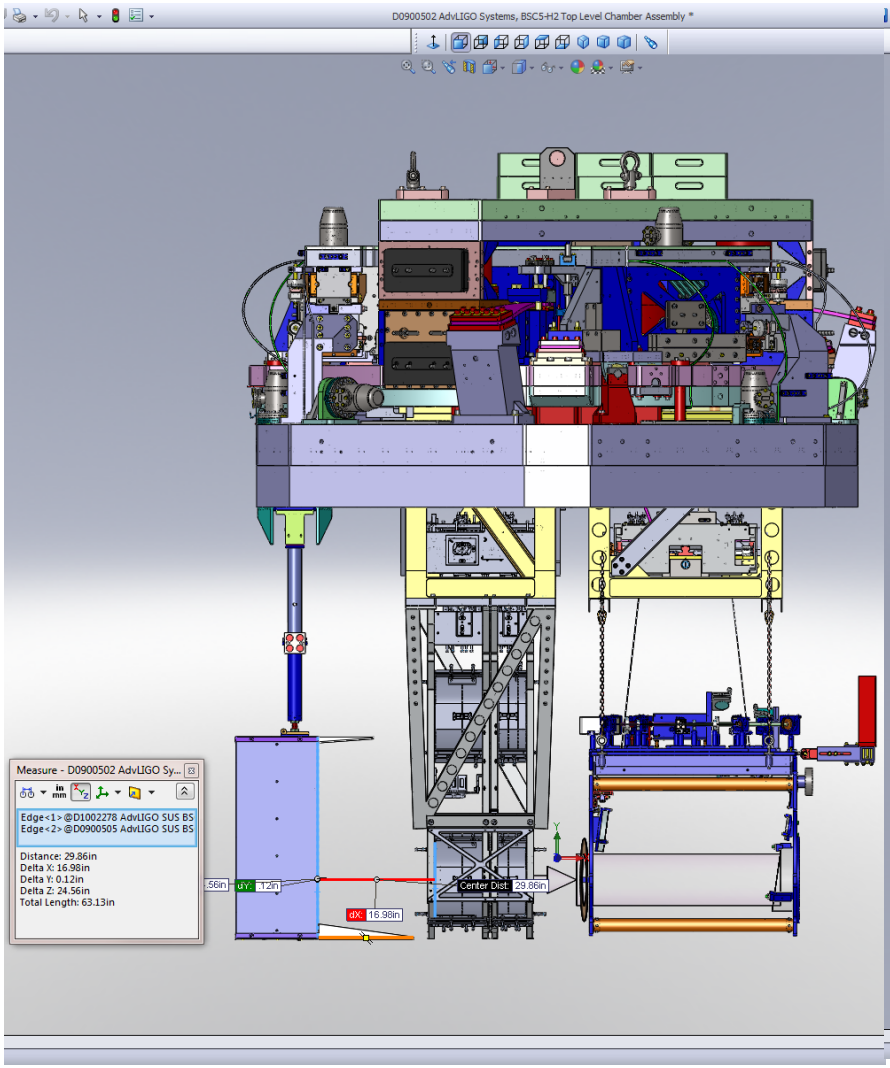
- BSC3-H1 (D0901146)

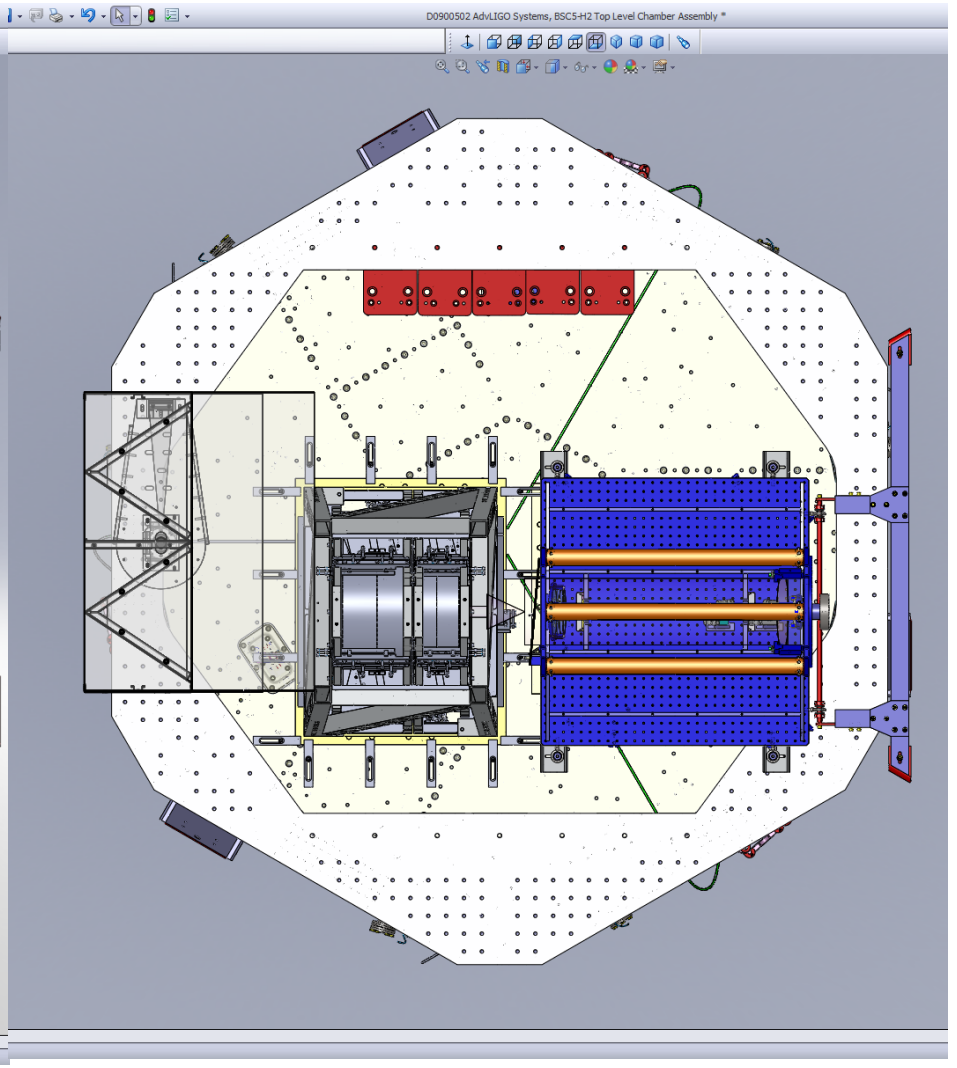




DISTANCE = 23.70”

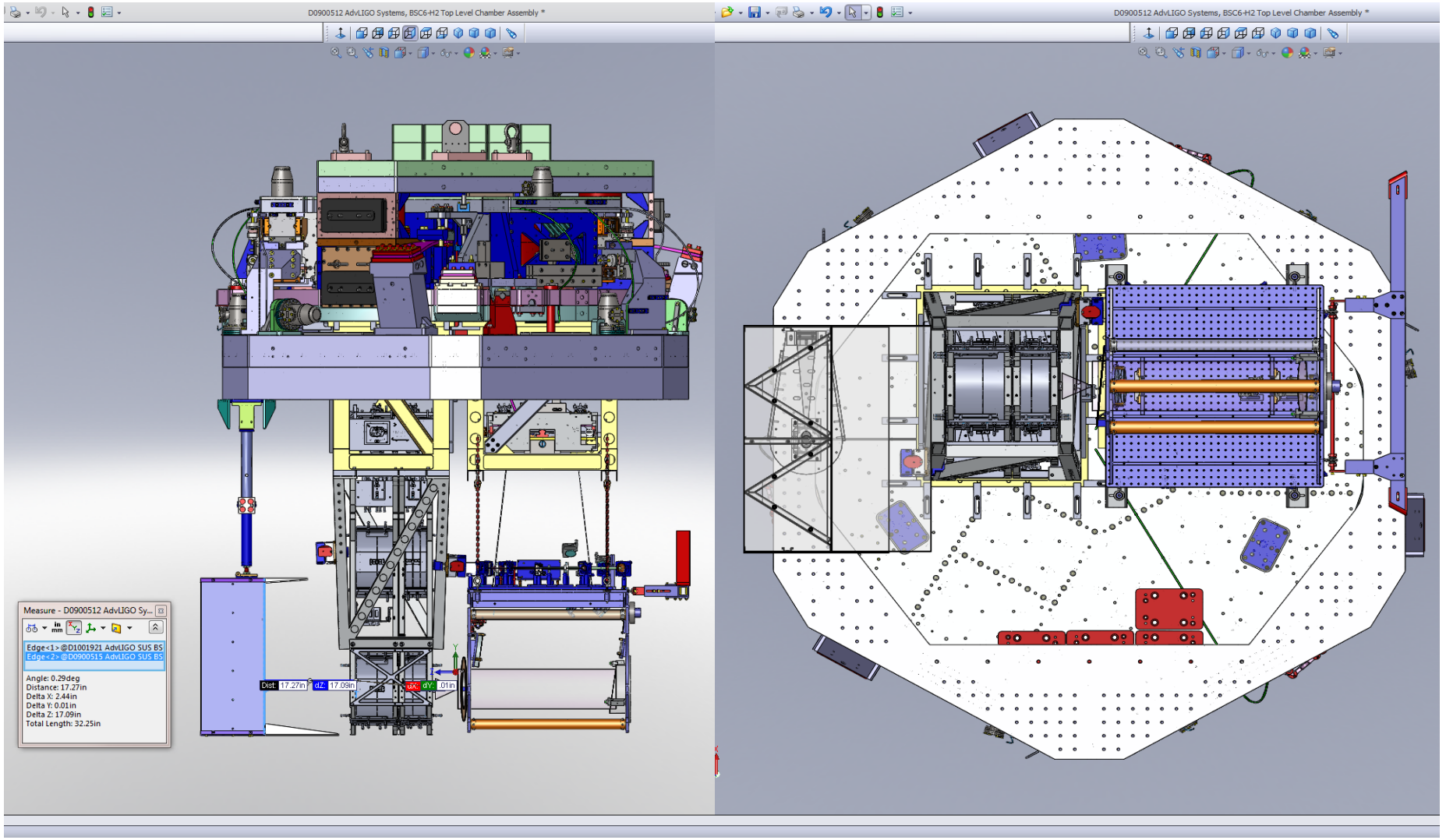
- BSC5-H2 (D0900502)





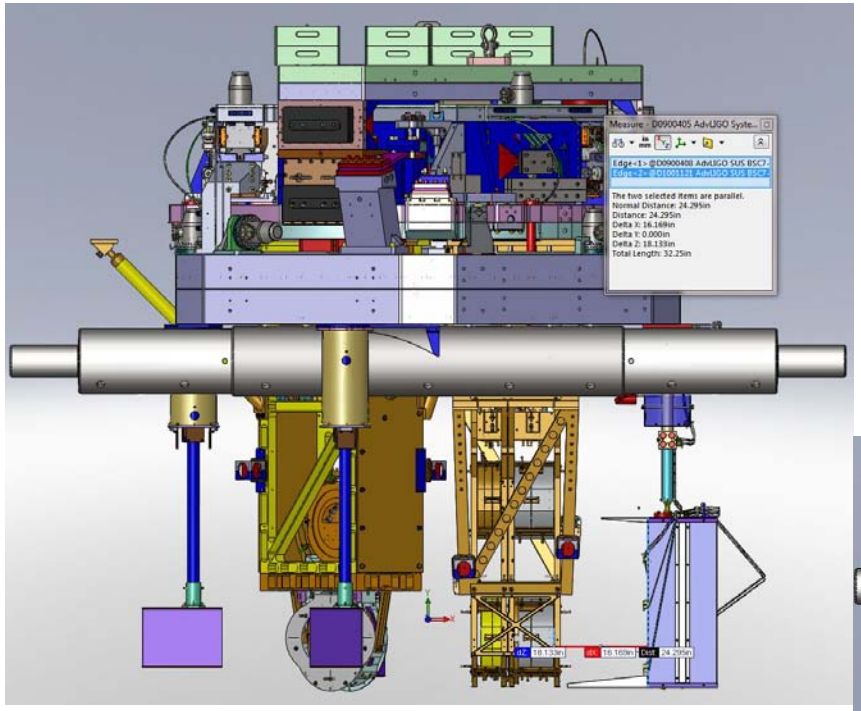
DISTANCE = 16.98”

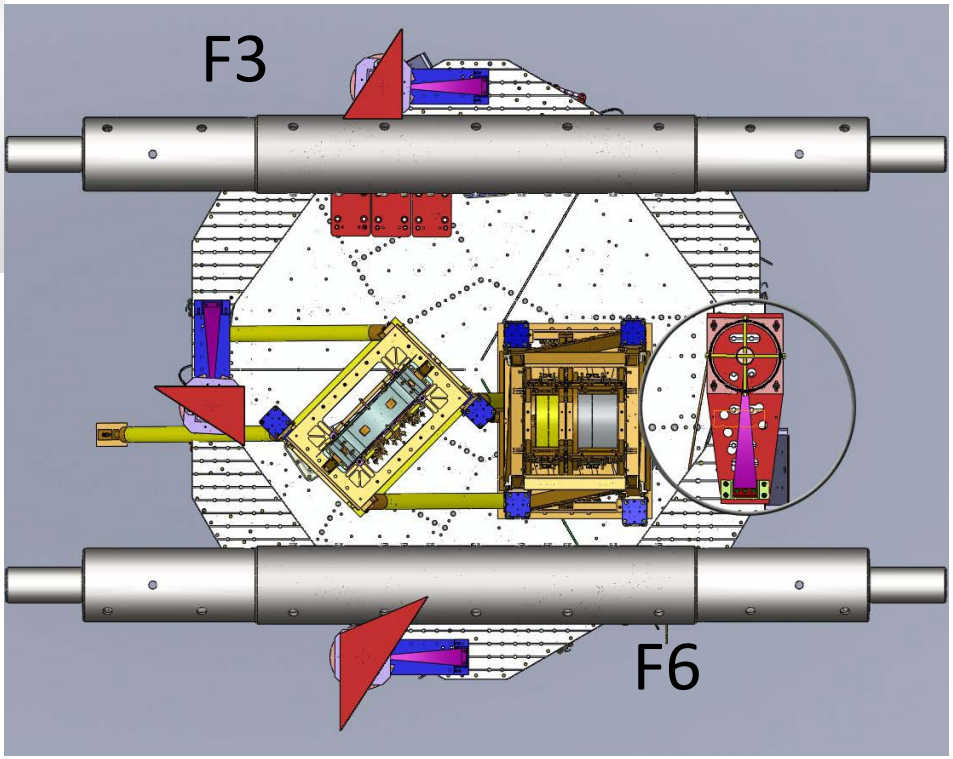
BSC6-H2 (D0900512)



DISTANCE = 17.09”

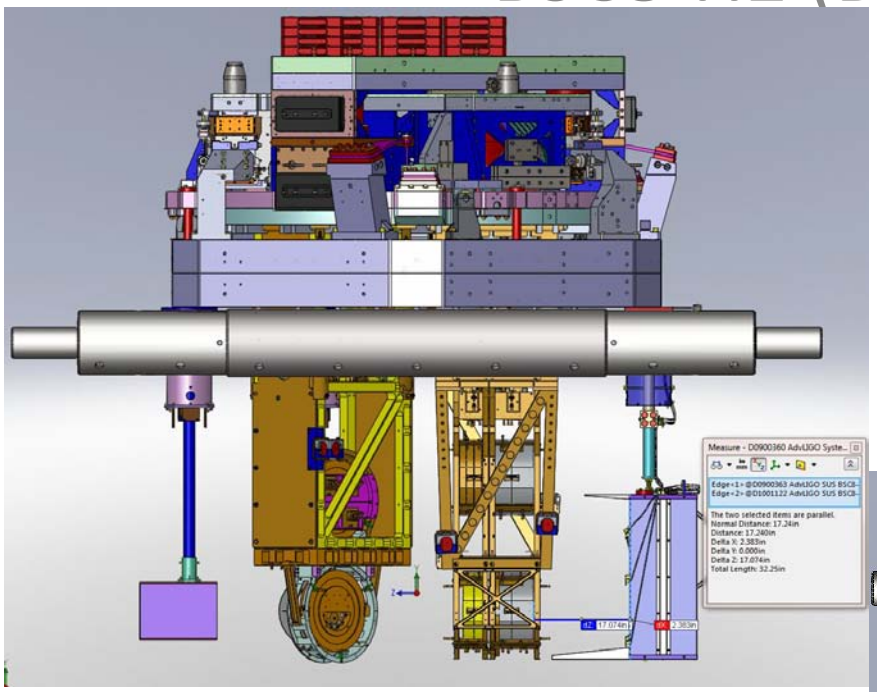
BSC7-H2 (D0900405)

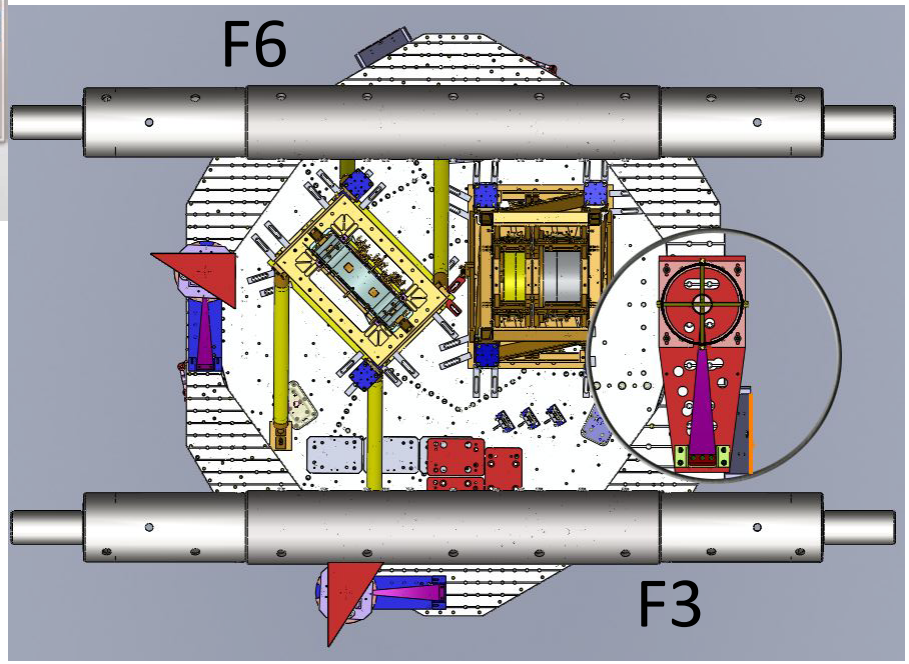




DISTANCE = 16.17”

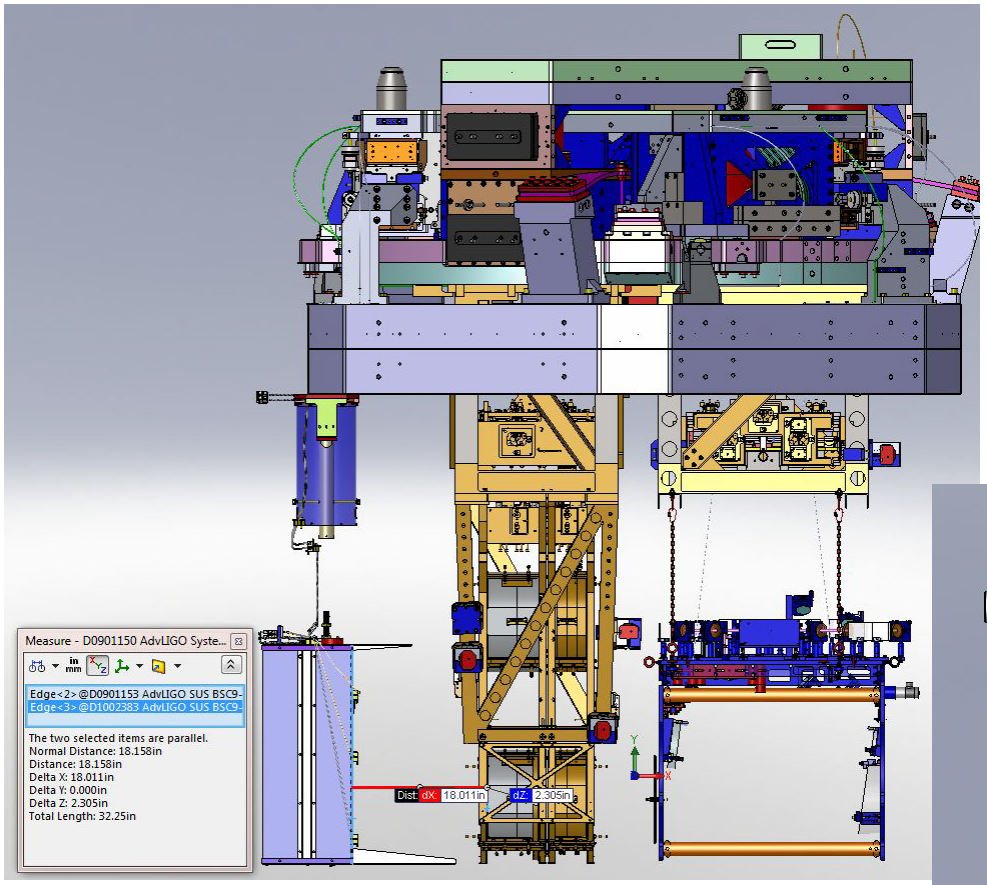
BSC8-H2 (D0900360)

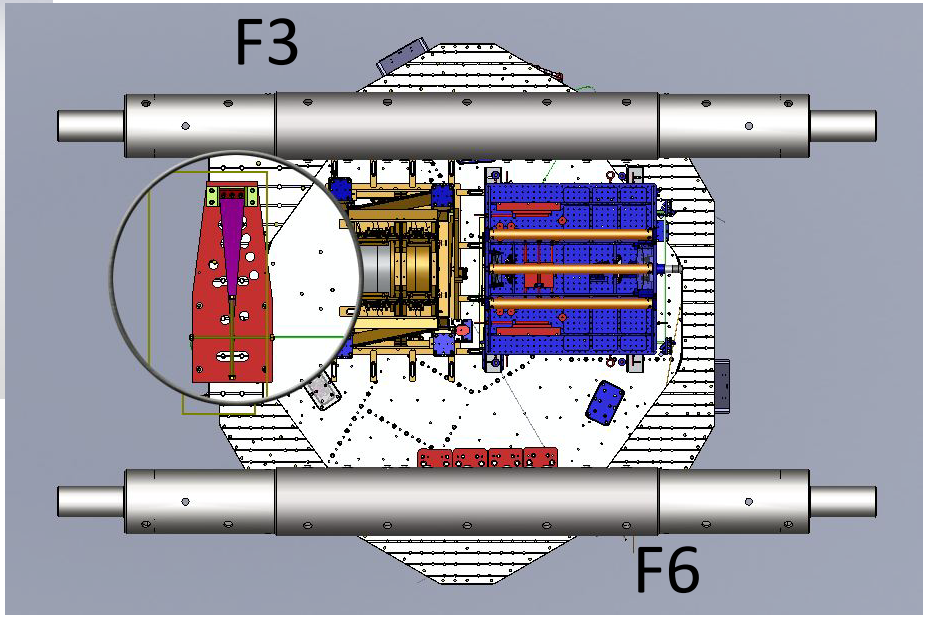




DISTANCE = 17.07”

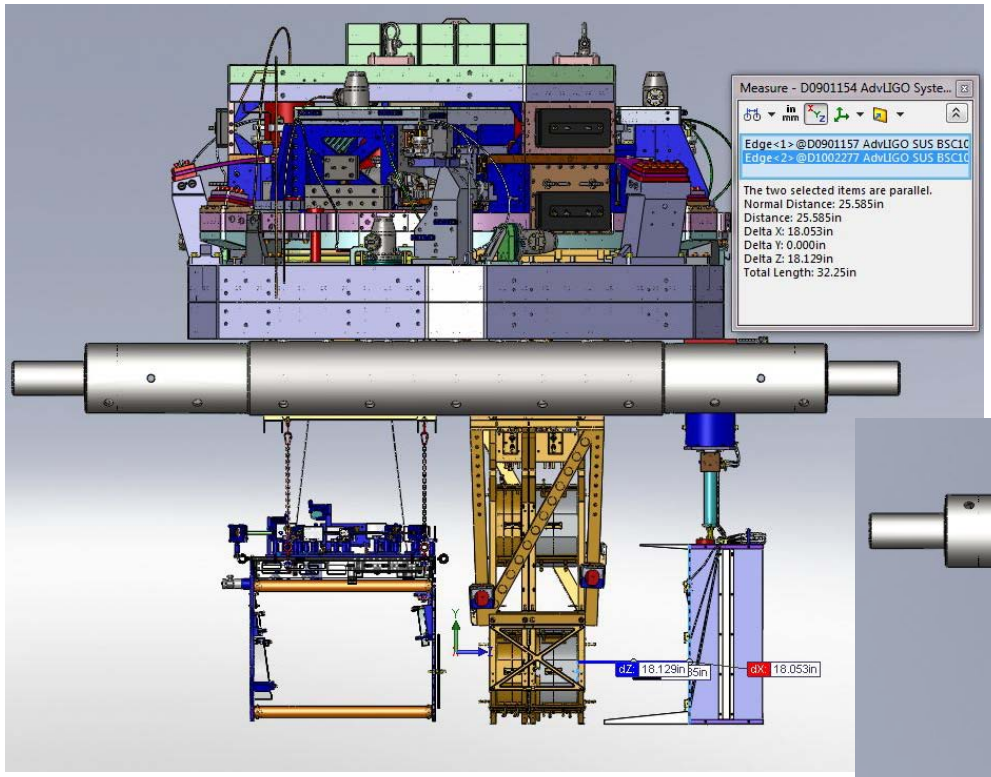
- BSC9-H1 (D0901150)

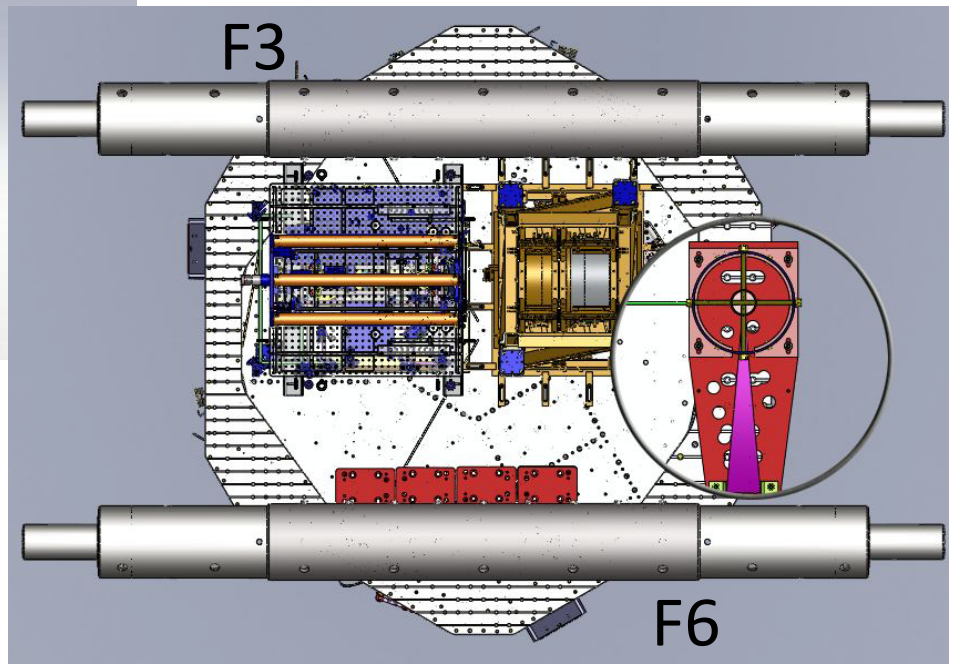




DISTANCE = 18.01”

- BSC10-H1 (D0901154)





DISTANCE = 18.05”