



Jefferson Lab Alignment Group

Data Transmittal

TO: A. Stephan, M. Defurne, F. Sabatie

DATE: 08 Jun 2017

FROM: Chris Gould

Checked:

: B1794

DETAILS:

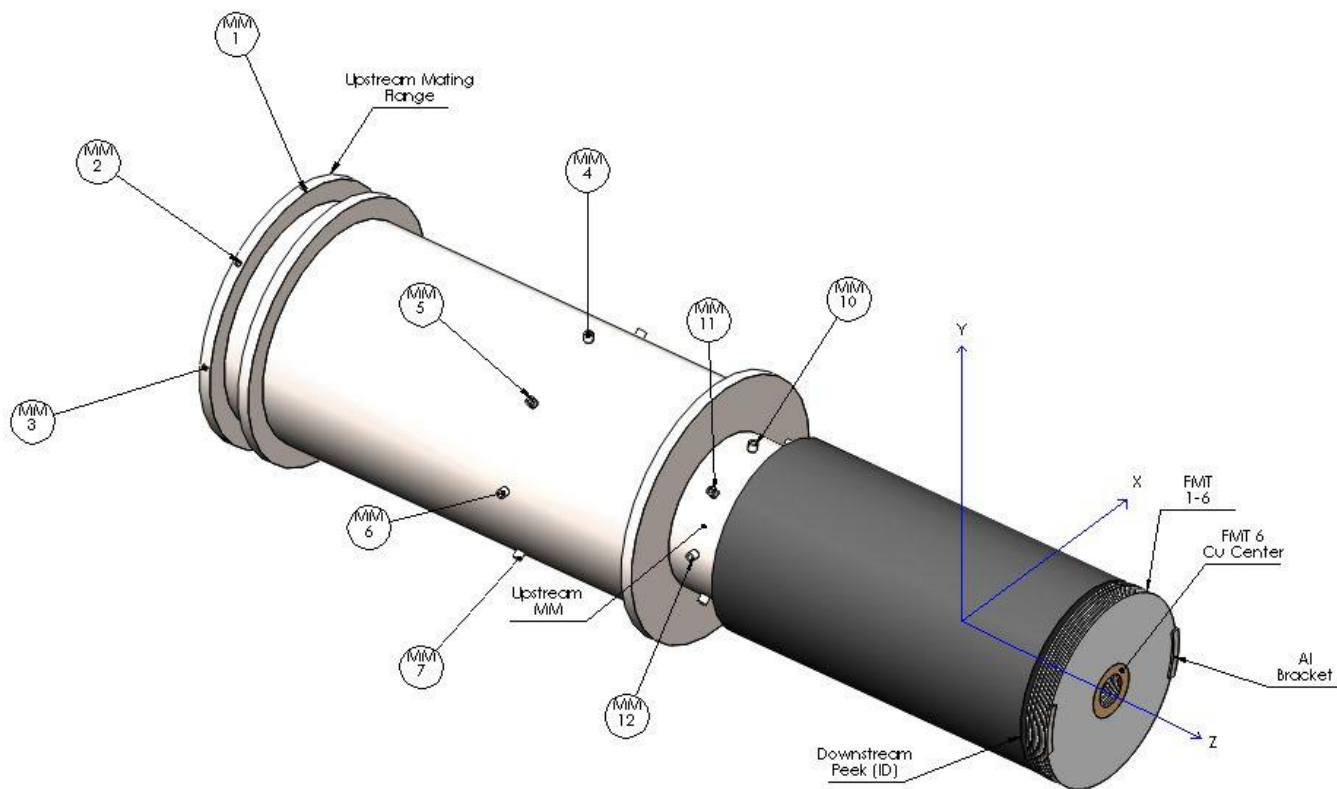
M:\align\DATA\Fiduc\HallB\SVT\MicroMegas\170608A

Below are the results of the recent Micro Megas integration survey. The target centerline defines the origin of the coordinate system. Based on the model provided by Hall B Engineering, this is ideally 1676.49mm downstream of the "Upstream Mating Flange".

Two circles were measured to set the Micro Mega detector coaxial with the SVT. The first circle, "Upstream MM", is the stainless steel pipe upstream of the carbon fiber cover. The second circle, "Downstream Peek", is the inside diameter of the Peek ring.

In all, eighteen fiducials were measured. This was done by resting a 0.5" tooling ball inside the machined holes. The diagram does not show all of the fiducials measured. It is hoped that by comparing the Z values the names can be deduced.

Six FMT detectors were measured. The XY positions are defined by a circle measured to the outside diameter. The Z value is to the downstream face. The aluminum bracket and the FMT 6 copper board were measured to check for interference with HTCC.



	X(mm)	Y(mm)	Z(mm)
MM1	-0.14	318.63	-1661.32
MM2	-225.82	225.33	-1660.60
MM3	-319.48	-0.19	-1660.42
MM4	-0.63	258.23	-977.17
MM5	-184.12	184.27	-975.91
MM6	-260.29	-0.79	-976.26
MM7	-184.69	-184.41	-976.81
MM8	-0.87	-261.41	-977.00
MM9	260.10	-1.46	-977.13
MM10	0.52	198.38	-593.15
MM11	-140.76	140.02	-593.25
MM12	-199.41	-0.90	-593.38
MM13	-0.24	-200.55	-593.69
MM14	141.45	139.84	-593.31
MM15	318.60	-0.68	-1661.53
MM16	225.35	225.02	-1661.53
MM17	-0.70	-319.55	-1661.44
MM18	-226.27	-225.90	-1660.85
Upstream_MM	-0.05	-0.98	-663.72
Downsteam Peek	-0.03	-0.91	291.60
FMT_6	0.04	-1.28	353.07
FMT_5	-0.01	-1.26	342.16
FMT_4	-0.07	-1.23	331.72
FMT_3	-0.11	-1.30	319.74
FMT_2	-0.12	-1.23	308.63
FMT_1	-0.04	-1.39	298.05
AI Bracket			360.67
FMT 6 Cu Center			358.05
Upsteam Mating Flange			-1676.36