



Jefferson Lab Alignment Group

Data Transmittal

TO: B. Wojtsekhowski

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FROM: Chris Gould

Checked:

: A1924

DETAILS:

M:\align\DATA\Inspection\HallA\APEX\190416A

The following APEX sieve results were measured after the run on 04/16/2019. The coordinates are reported in a Beam Following System relative to the ideal target centerline. The "Tungsten Bolt Holes" reference the upstream tungsten wire frame bolt holes located on the target strongback. The actual wires were not measured. A positive X is beam left, a positive Y is up and a positive Z is downstream. Values are in millimeters and degrees.

	BEAM FOLLOWING SYSTEM (mm)		
	X	Y	Z
IDEAL APEX TARGET CENTERLINE			
APEX TGT	0.0	0.0	0.0
UPSTREAM TUNGSTEN BOLT HOLES			
TOP	113.6	-13.0	-244.5
BOT	113.6	17.1	-244.5
SIEVE BOX			
US LARGE SLOT FLANGE	0.4	0.7	572.1
BEAM LEFT SIEVE HOLES			
TOP SMALL	80.8	48.1	791.8
BOT SMALL	81.4	-45.3	791.7
TOP LARGE	81.0	1.4	791.8
BOT LARGE	61.9	-22.1	793.6
BEAM RIGHT SIEVE HOLES			
TOP SMALL	-78.5	48.4	790.9
BOT SMALL	-78.1	-45.1	790.9
TOP LARGE	-78.2	1.7	790.9
BOT LARGE	-58.9	-21.6	792.7
BEAM LEFT SCI FI DETECTOR			
LEFT	134.5	-1.5	843.0
RIGHT	43.4	-1.7	843.6
BEAM RIGHT SCI FI DETECTOR			
TOP	-87.1	54.1	840.5
BOTTOM	-95.5	-52.1	840.6
SIEVE ANGLES	RY FROM +Z (YAW)	RX FROM +Y (PITCH)	
LEFT	5.366	89.988	
RIGHT	-5.372	90.019	