



## MEBT MEETING AGENDA

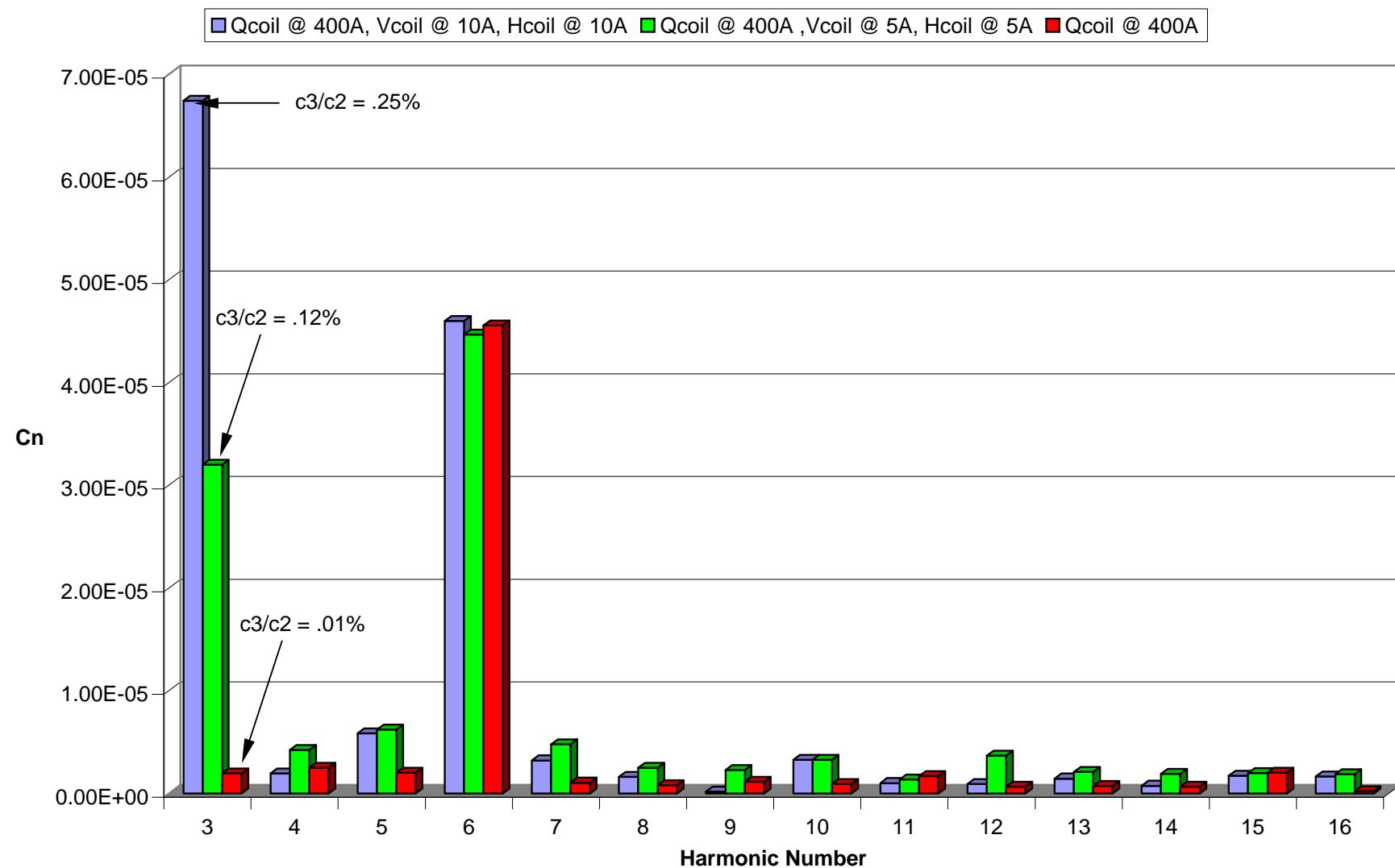
December 7, 2000

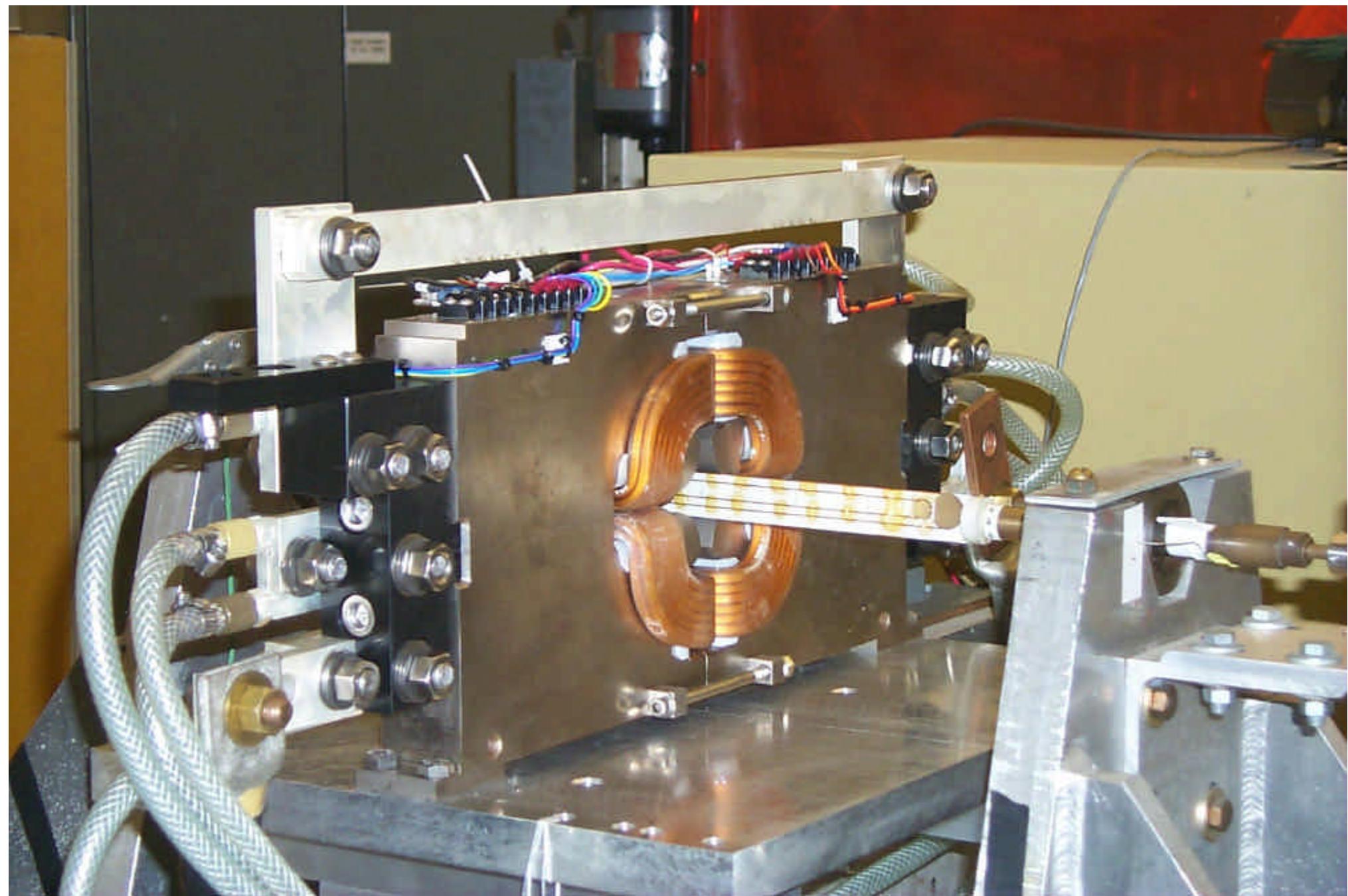
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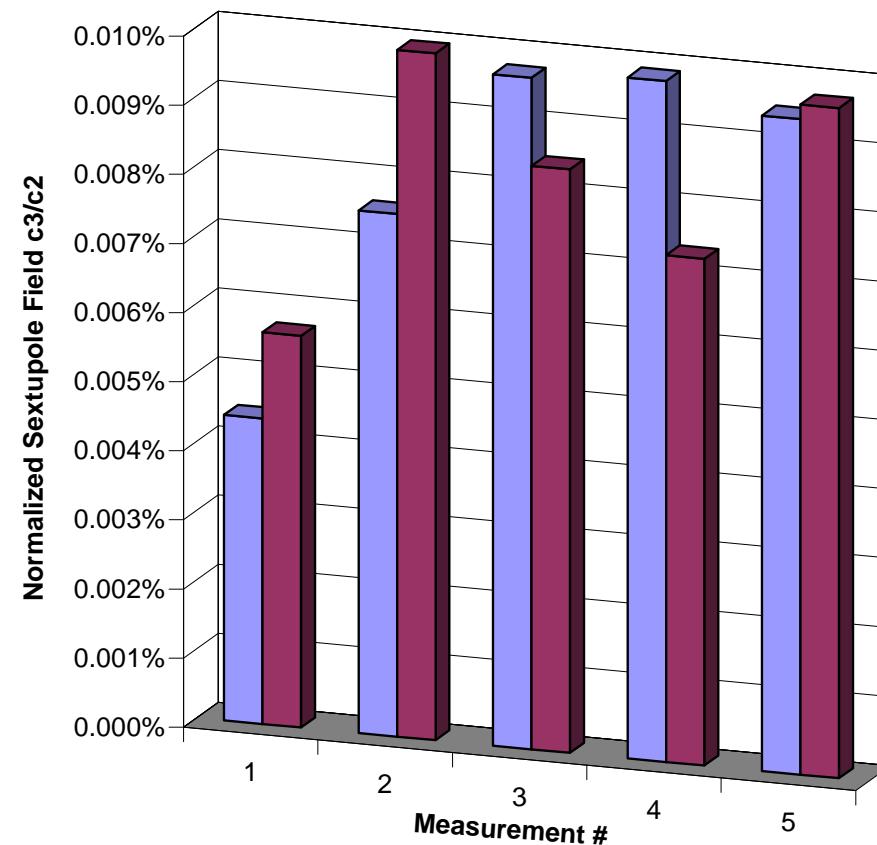
- |   |               |
|---|---------------|
| <b>1. Quadrupole Measurements</b>                       | Daryl         |
| ♦ Quad magnet assembly <b>complete</b>                  | 0             |
| • Magnetic measurements <b>complete</b>                 | 0             |
| • Summary of Results                                    |               |
| • Split Test Results (Photo)                            |               |
| • Triplet Test Results (Photo)                          |               |
| <b>2. BPM's</b>   | Daryl         |
| • Fabrication drawings are complete (except assy dwg's) |               |
| • Parts out for bid except bore tubes and spools        |               |
| <b>3. Chopper Beam Box Update (LANL)</b>                | Andrew        |
| <b>4. Chopper Target Fabrication Update</b>             | Daryl         |
| <b>5. Vacuum System Update</b>                          | Daryl         |
| • Varian Dual controller selected                       |               |
| • Roughing Cart Status                                  |               |
| • RFQ - MEBT Gate valve (dwg)                           |               |
| <b>6. Slit/Beamstop FEA Status</b>                      | Daryl         |
| <b>7. Electrical Systems Update (Rebuncher)</b>         | Alex          |
| <b>8. Upcoming Tasks and Milestones</b>                 |               |
| ♦ Raft Systems FDR                                      | 1/31/01 OR,UC |
| ♦ Rebuncher Cavity #1 Received                          | 1/31/01 OR    |
| ♦ Profile Monitor FDR                                   | 1/31/01       |

*Next Meeting, Date and Time TBD*

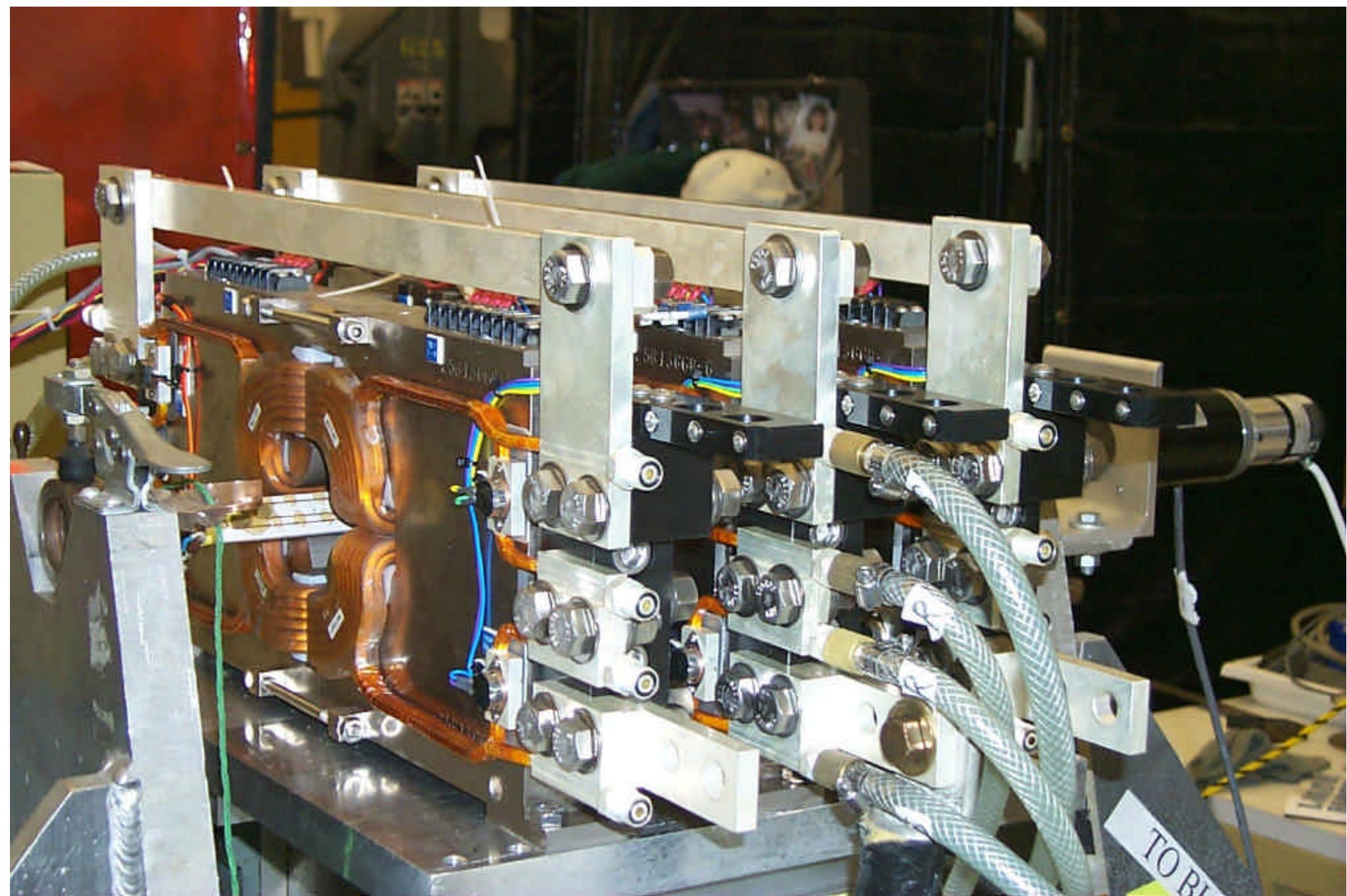


**Affect of Steering Coils on Field Multipoles**



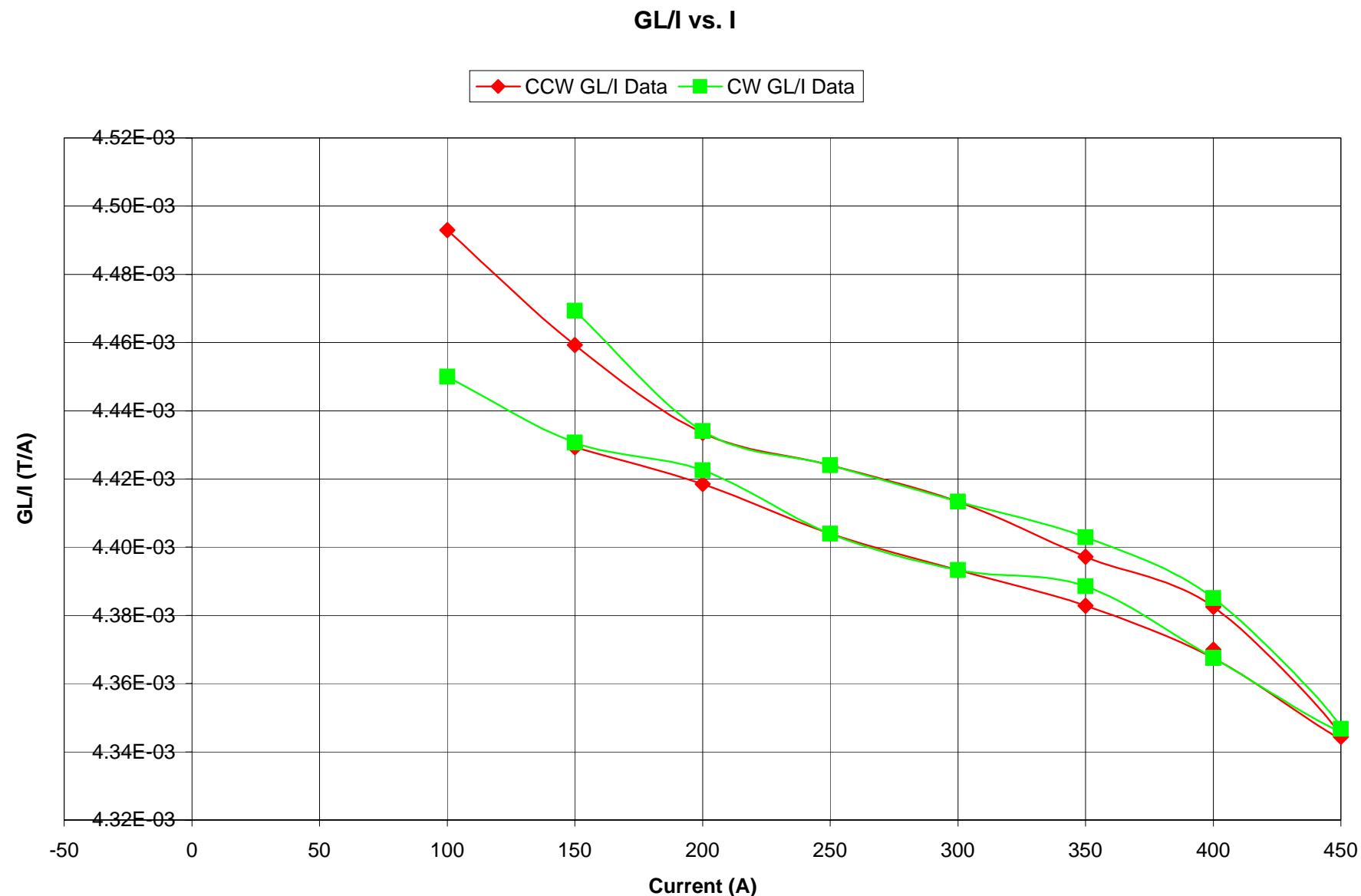
**Q32\_7: Effect of Disassembly On Sextupole Field**

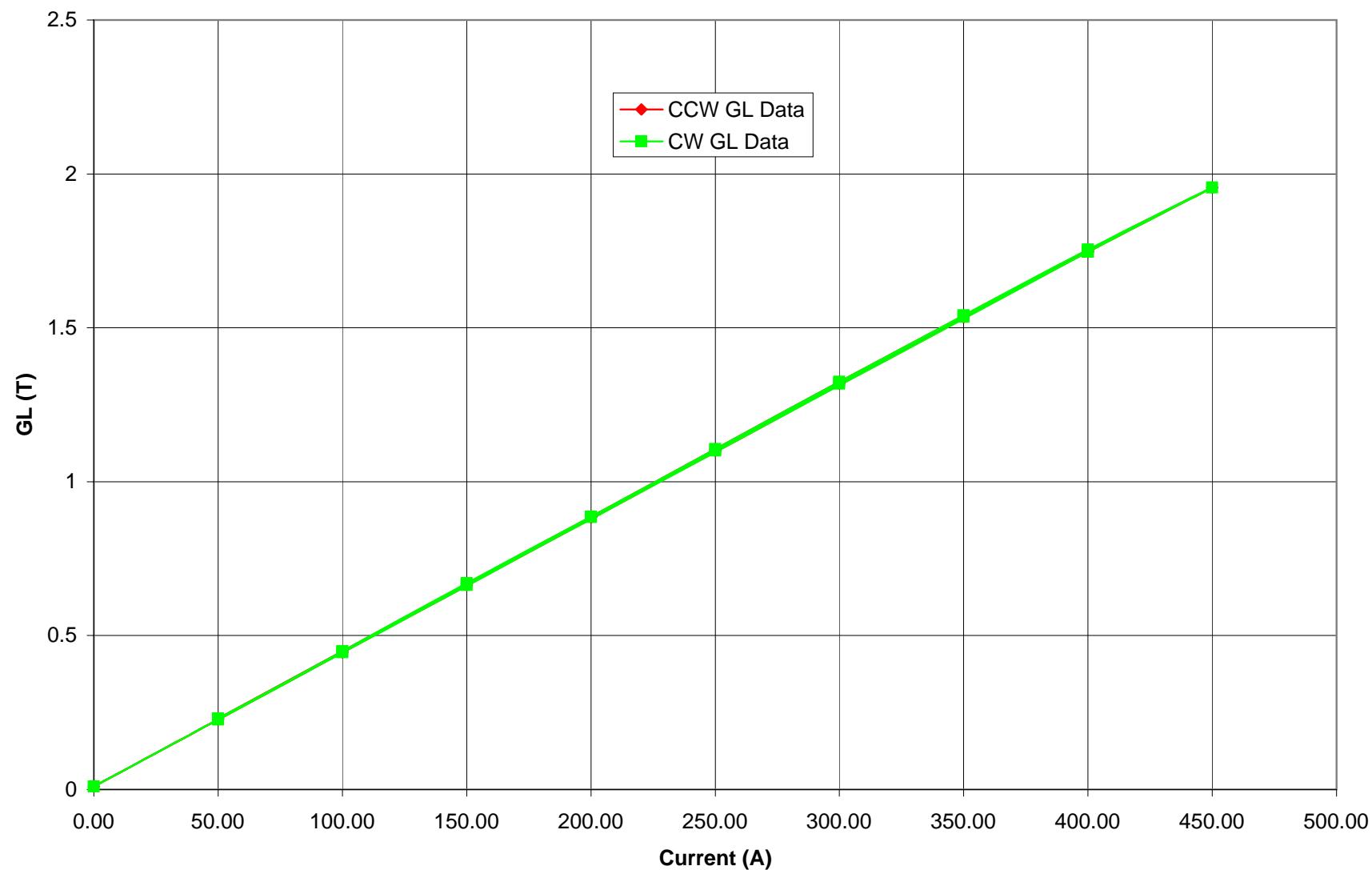
	1	2	3	4	5
Before Disassembly	0.004%	0.008%	0.010%	0.010%	0.009%
After Disassembly	0.006%	0.010%	0.008%	0.007%	0.010%







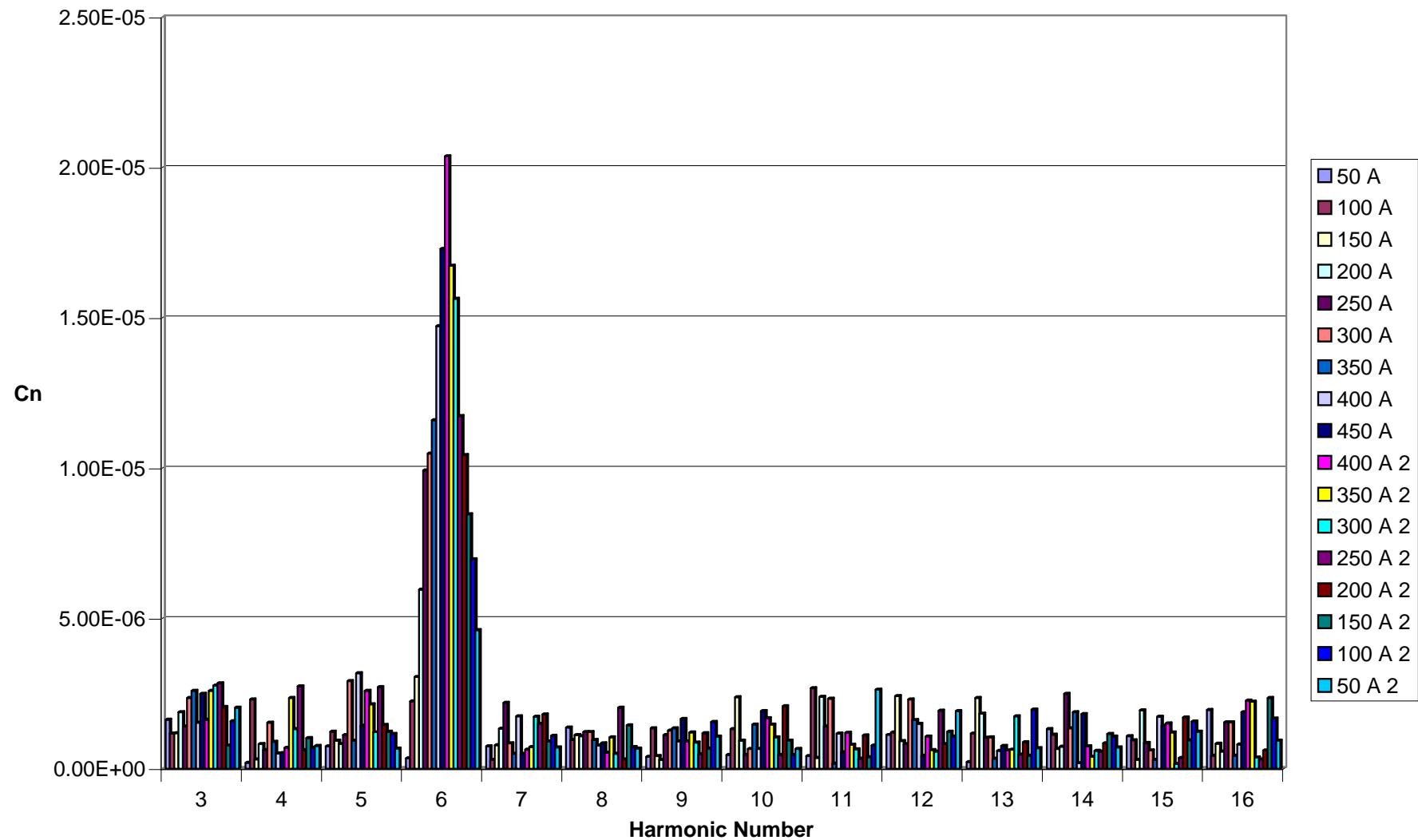


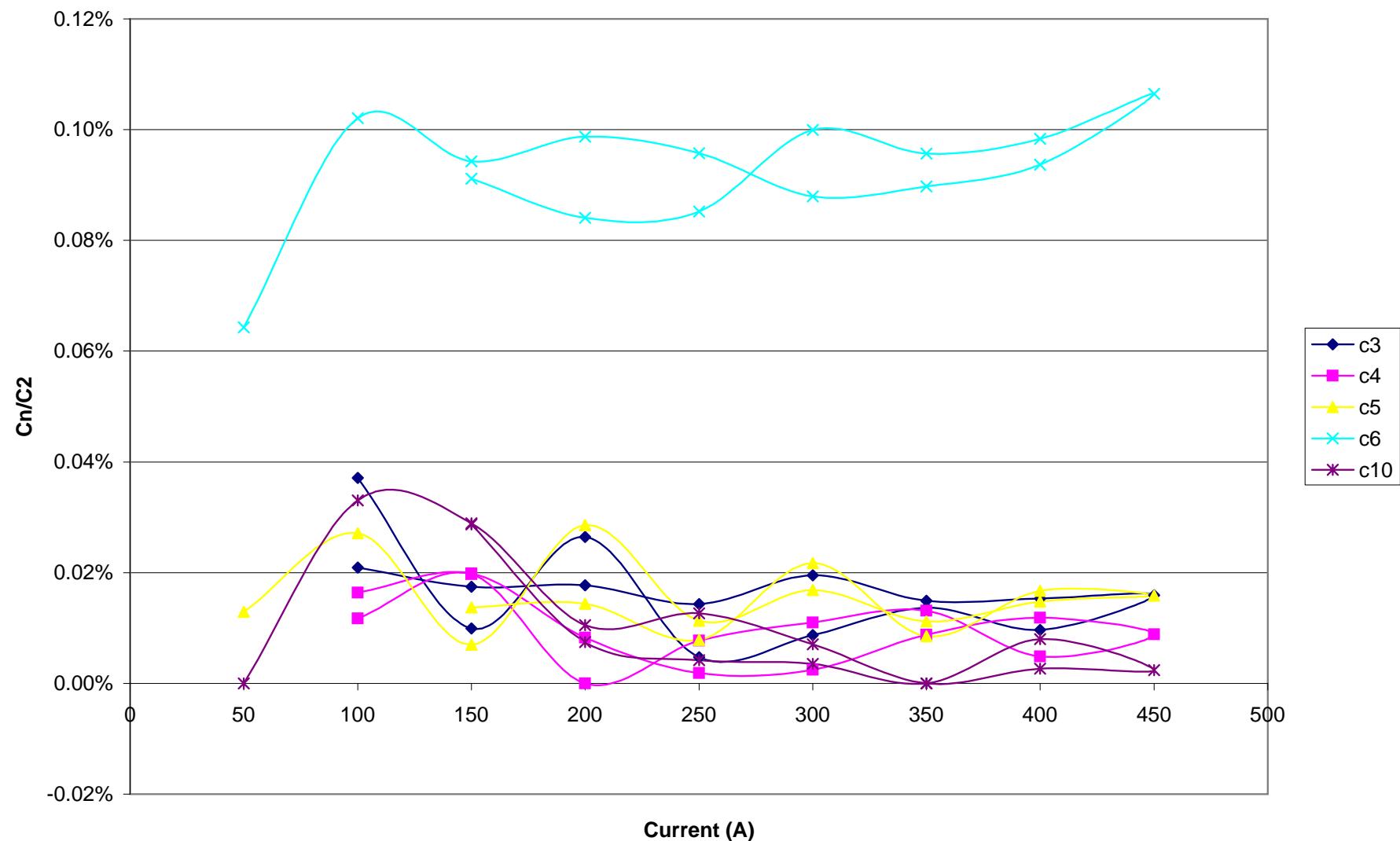
**GL vs. Current**

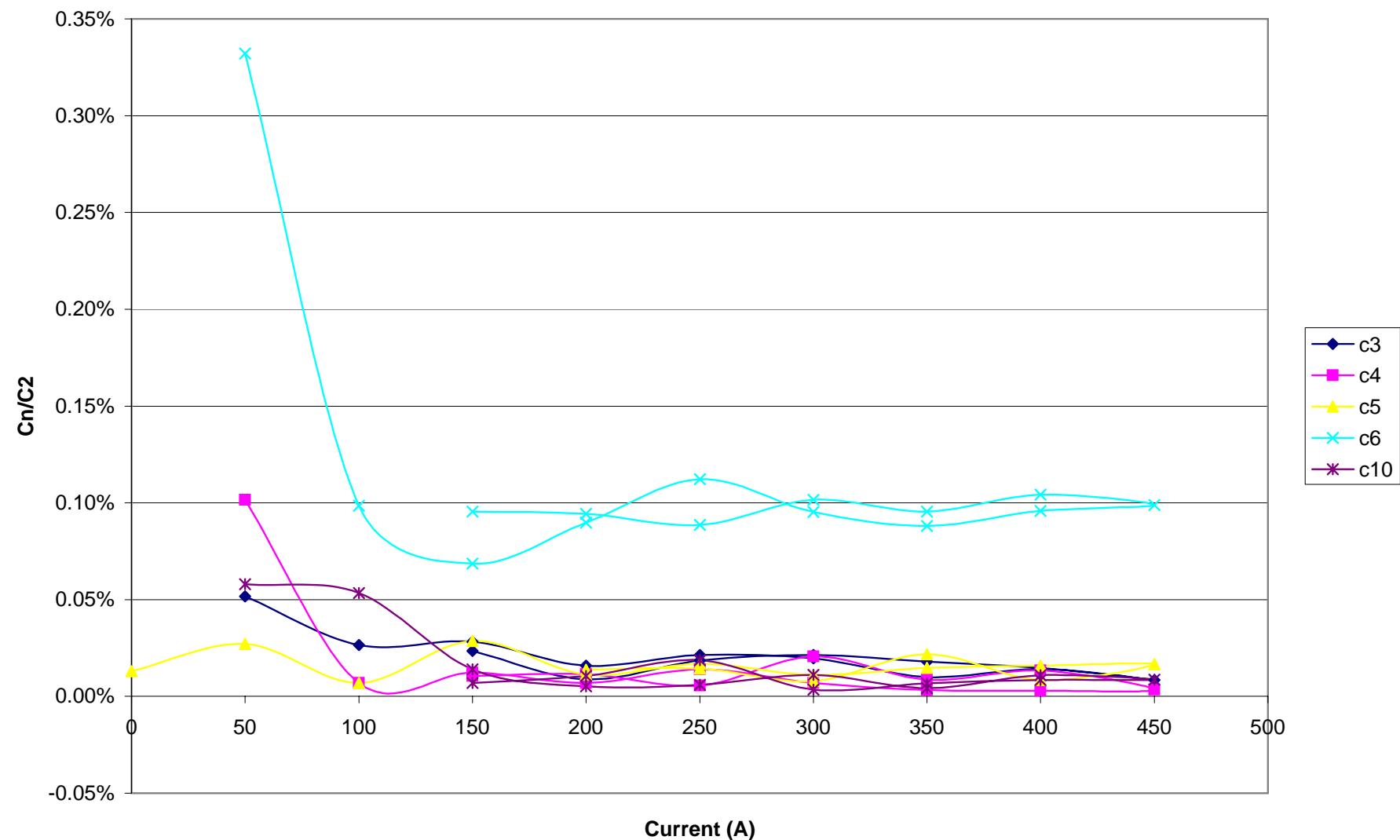
## CCW Data

I (A)	Predicted		Difference	Predicted
	GL (T)	I (A)		GL(T)
400	1.748	377.4947	0.943737	1.85162
0				
50				
100				
150	0.6644	142.1476	0.947651	0.700554
200	0.8837	189.7774	0.948887	0.930768
250	1.101	236.9728	0.947891	1.160981
300	1.318	284.103	0.94701	1.391194
350	1.534	331.0161	0.94576	1.621407
400	1.747	377.2775	0.943194	1.85162
450	1.955	422.4531	0.938785	2.081833
400	1.753	378.5807	0.946452	1.85162
350	1.539	332.102	0.948863	1.621407
300	1.324	285.4062	0.951354	1.391194
250	1.106	238.0587	0.952235	1.160981
200	0.8867	190.429	0.952145	0.930768
150	0.6689	143.125	0.954167	0.700554
100	0.4493	95.43007	0.954301	0.470341
50				
average = 94.816%				

## **Field Multipoles over all current range: 50-450-50 A**

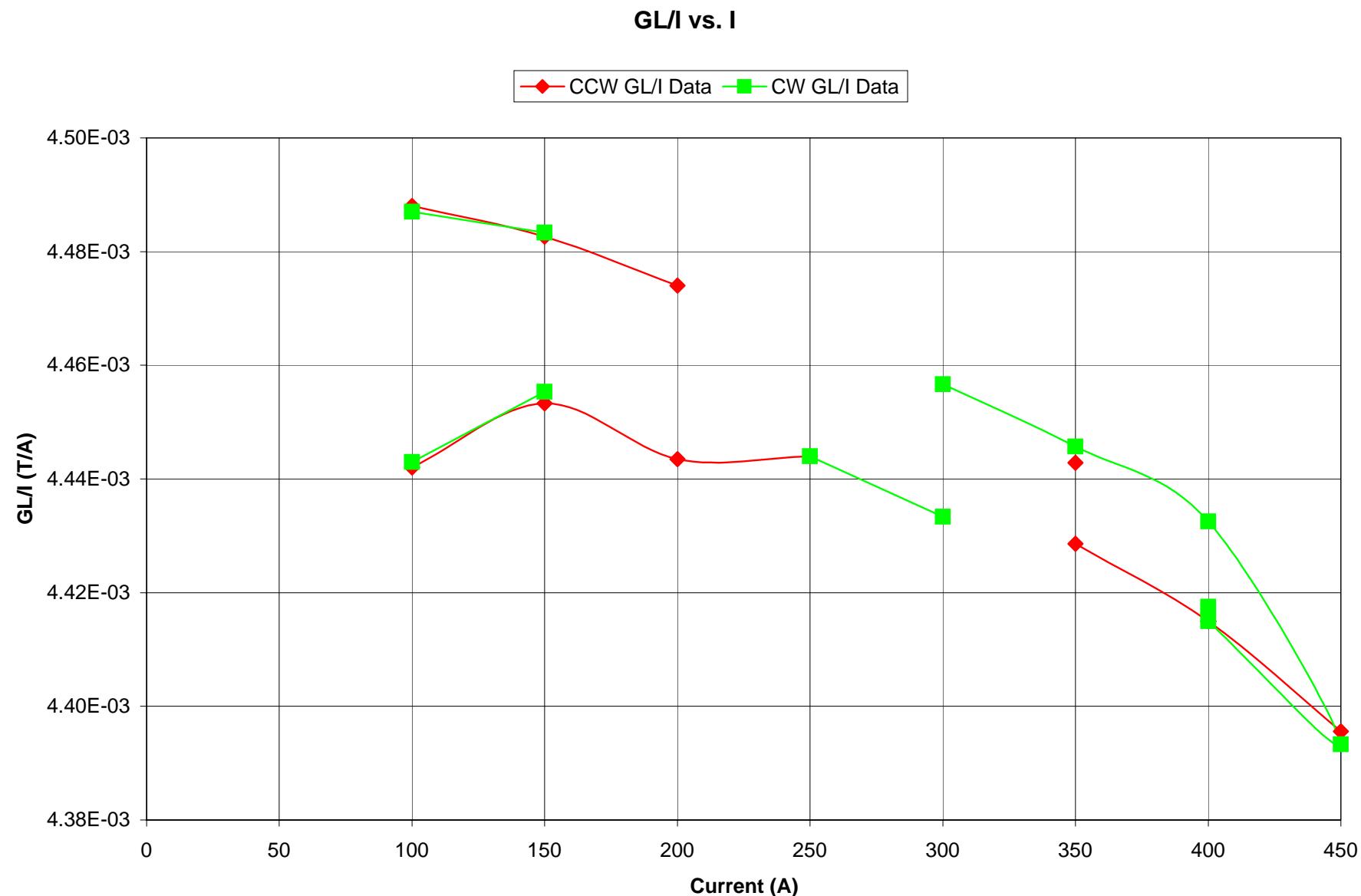


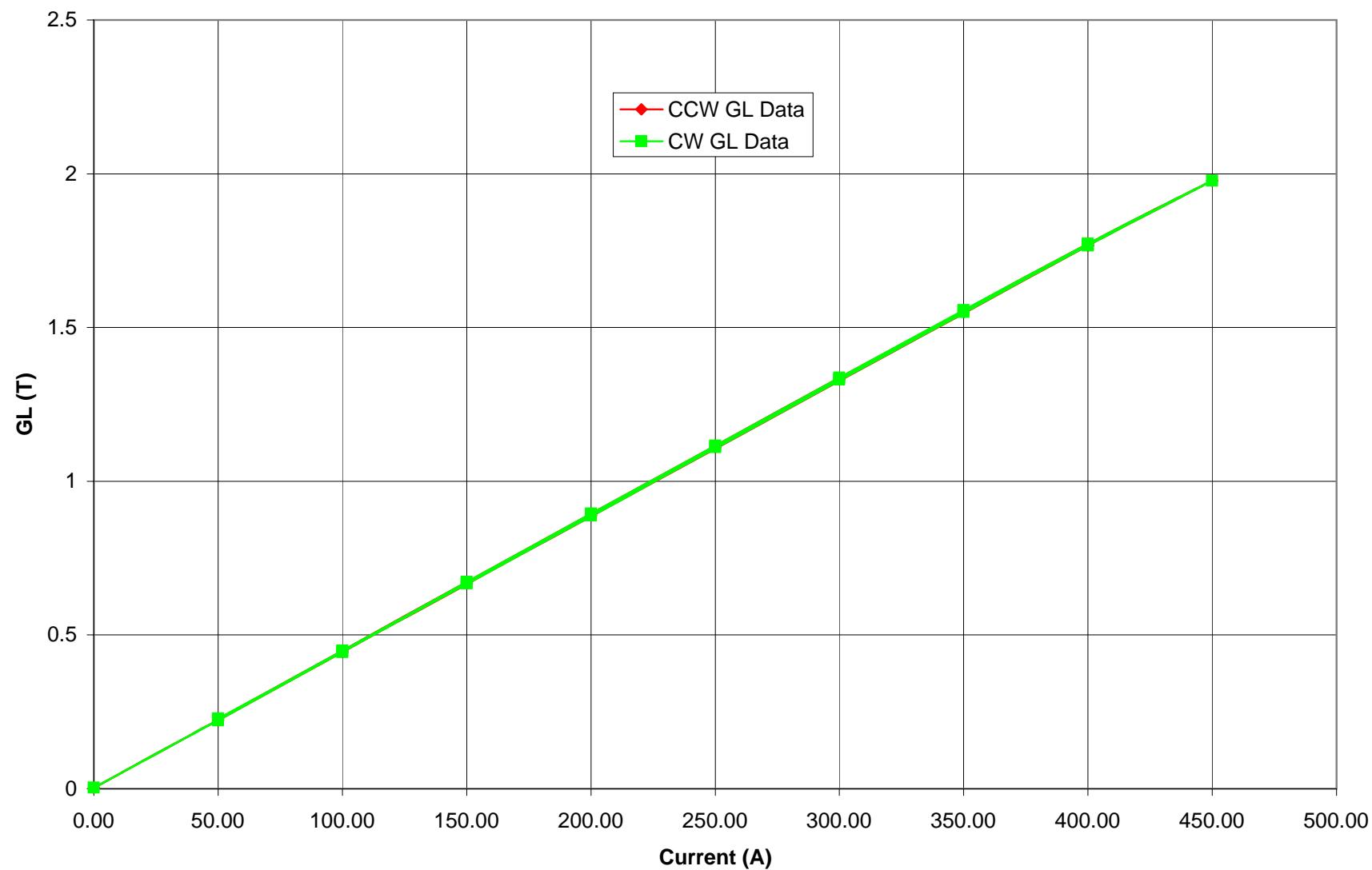
**CCW cn vs current**

**CW cn vs current**





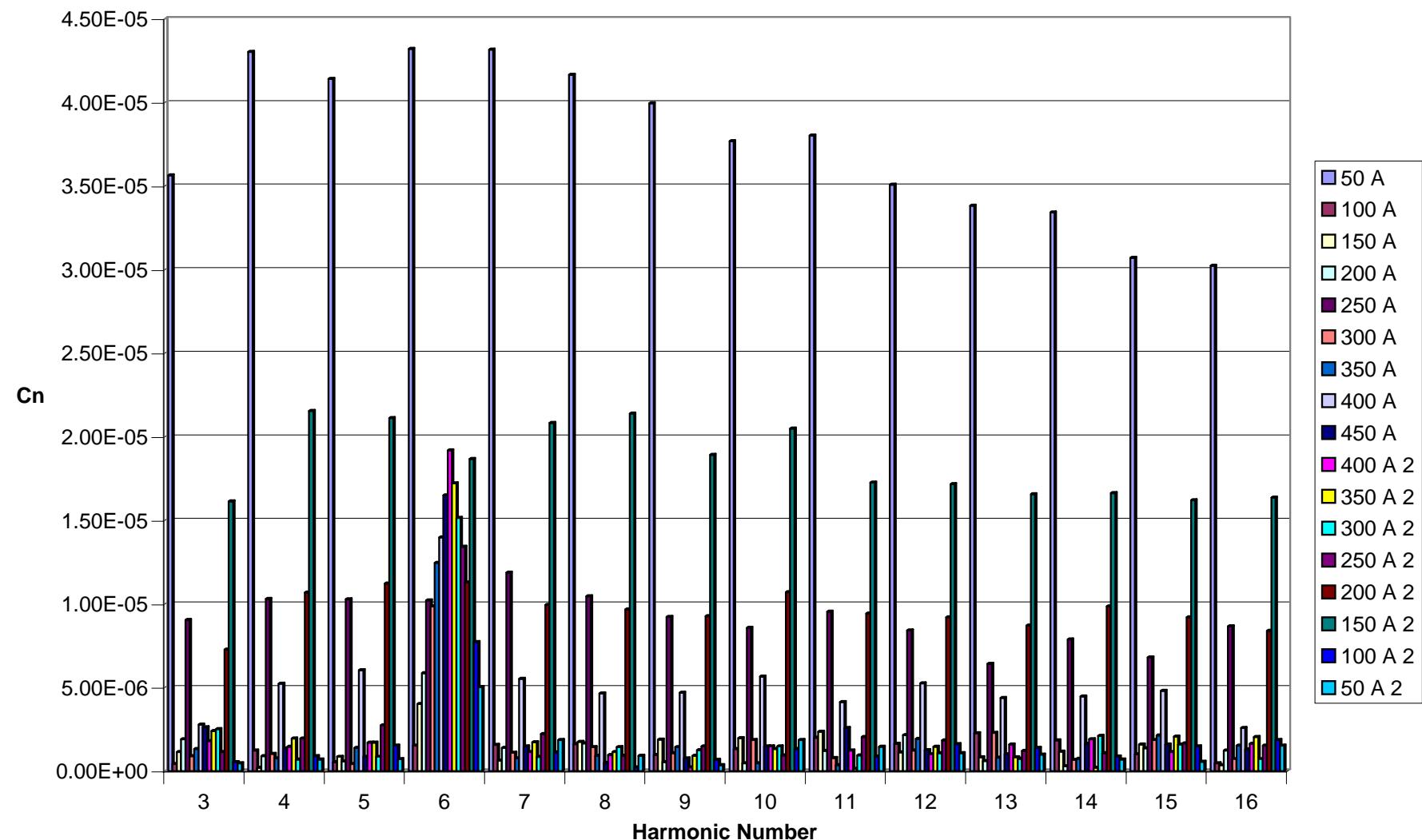


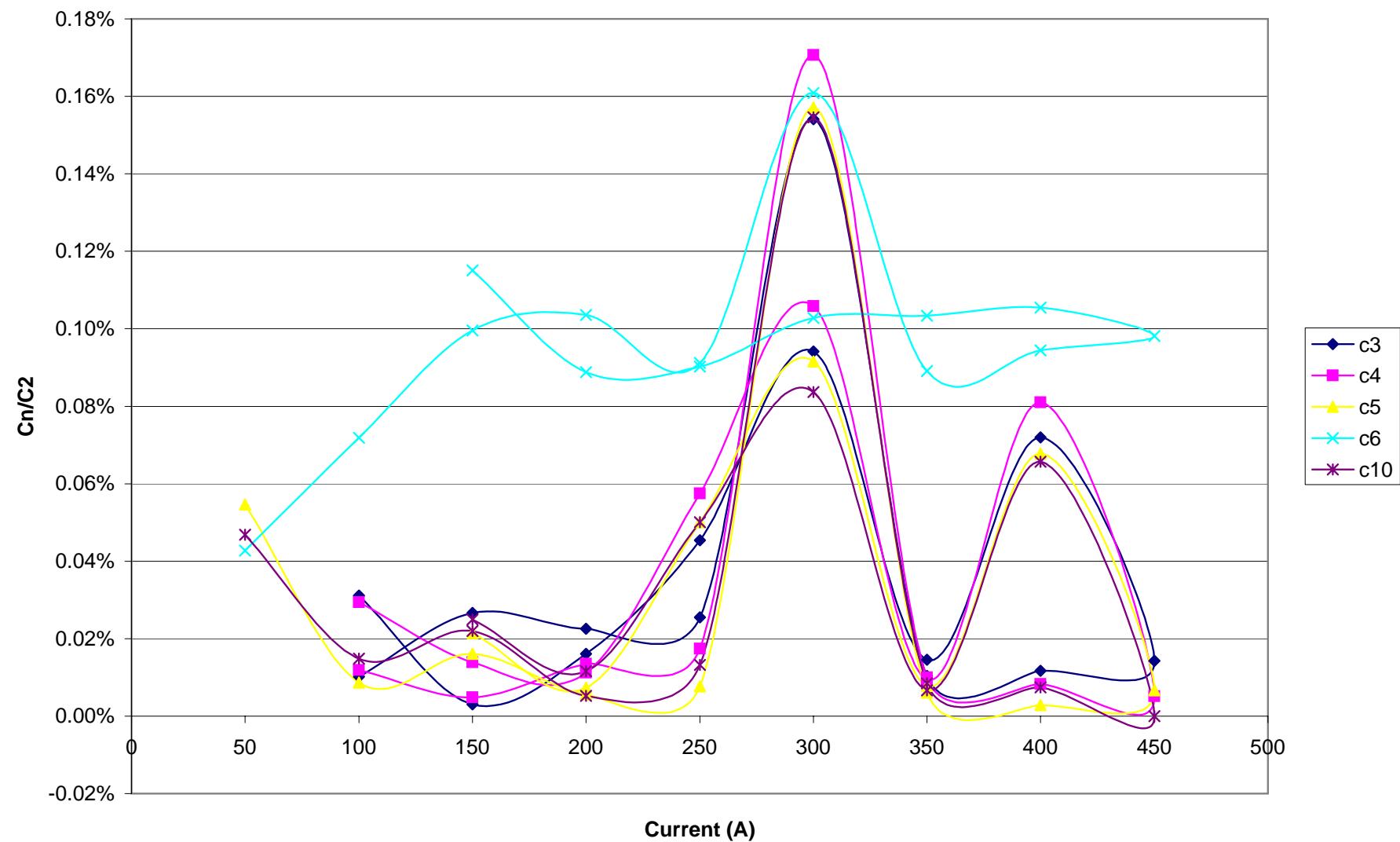
**GL vs. Current**

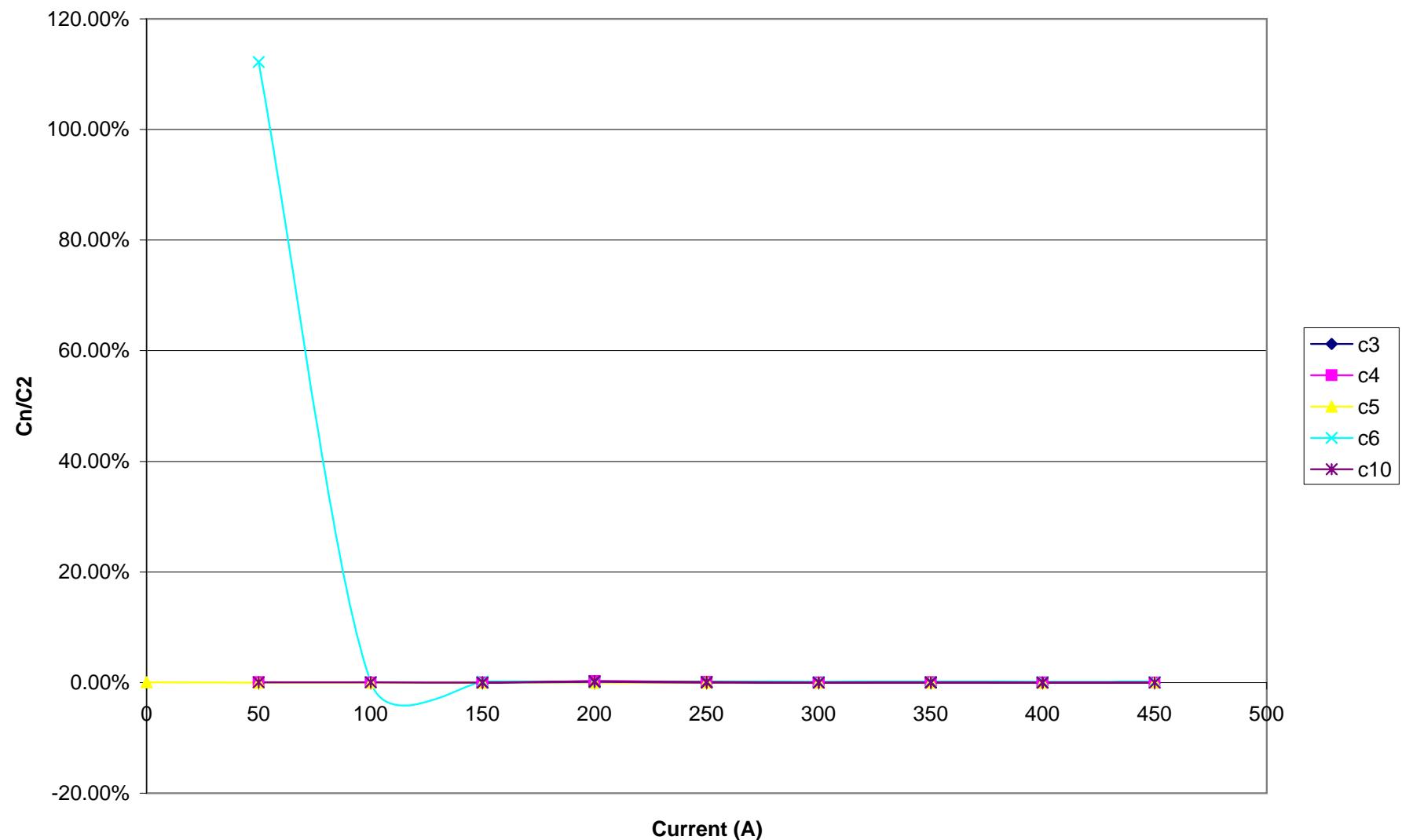
## CCW Data

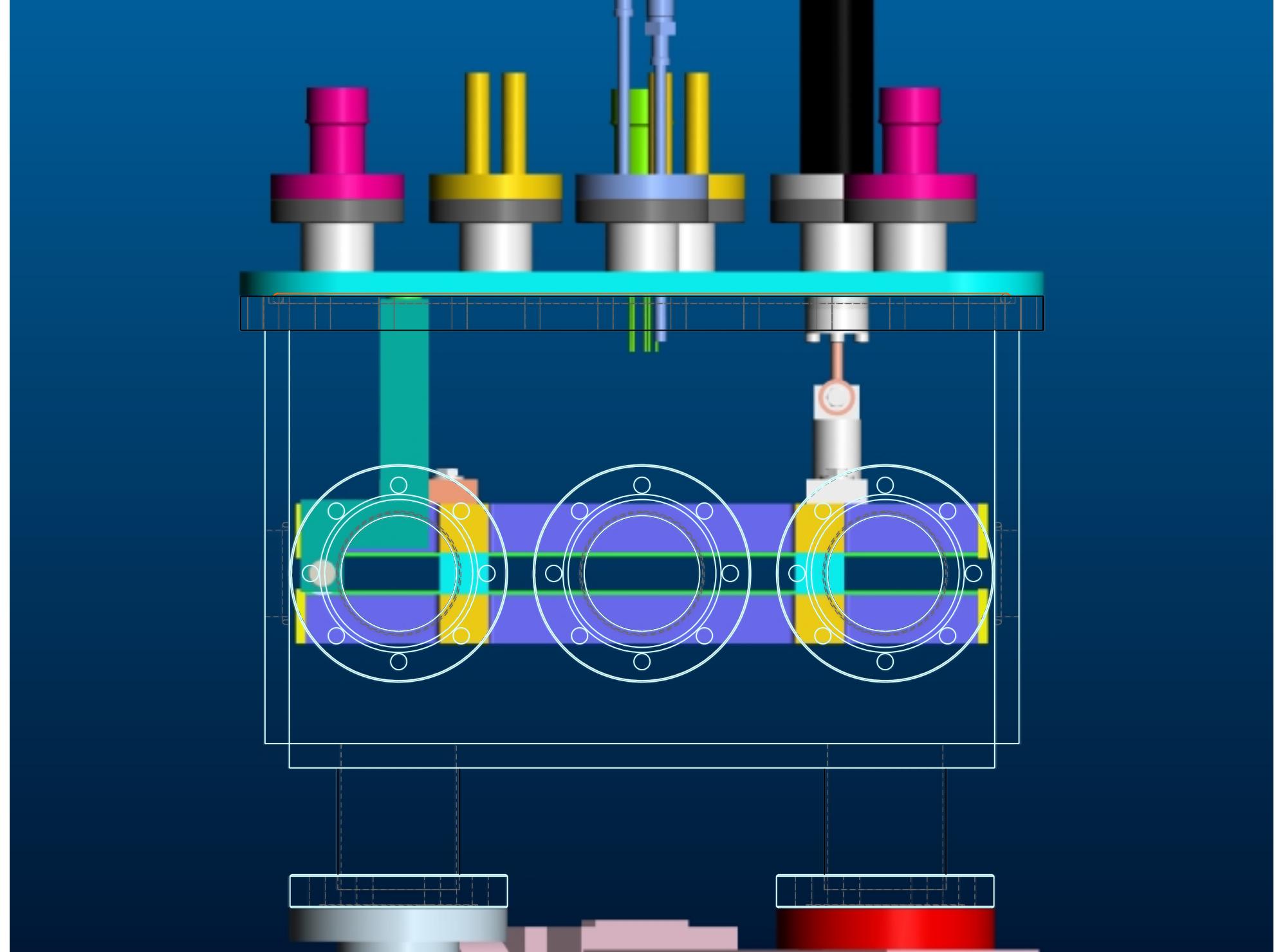
I (A)	Predicted		Difference	Predicted
	GL (T)	I (A)		
400	1.766	381.4041	0.95351	1.85162
0				
50				
100	0.4442	94.3224	0.943224	0.470341
150	0.668	142.9295	0.952863	0.700554
200	0.8887	190.8634	0.954317	0.930768
250	1.111	239.1447	0.956579	1.160981
300				
350	1.55	334.4911	0.955689	1.621407
400	1.766	381.4041	0.95351	1.85162
450	1.978	427.4484	0.949885	2.081833
400				
350	1.555	335.5771	0.958792	1.621407
300				
250				
200	0.8948	192.1882	0.960941	0.930768
150	0.6724	143.8852	0.959234	0.700554
100	0.4488	95.32147	0.953215	0.470341
50				

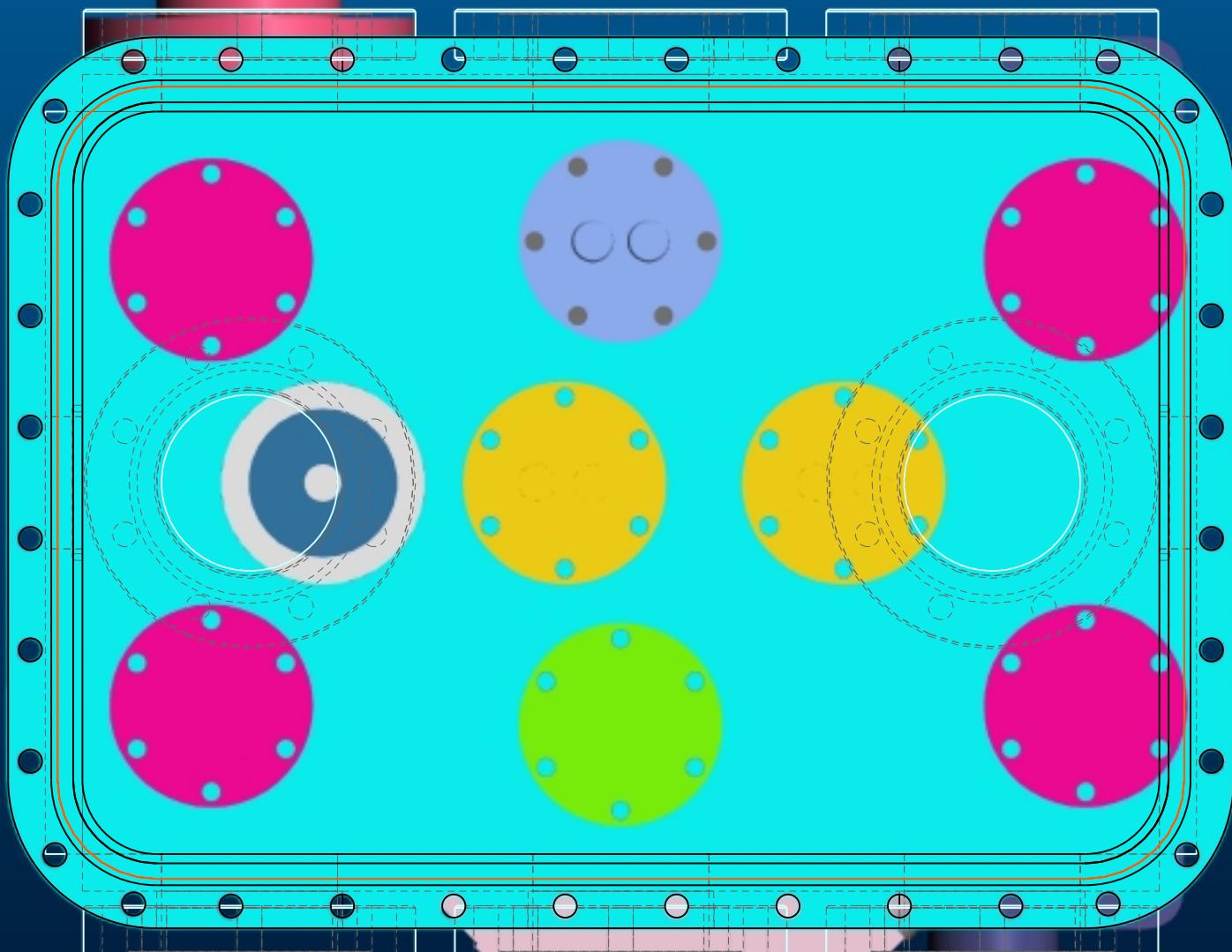
average = 95.431%

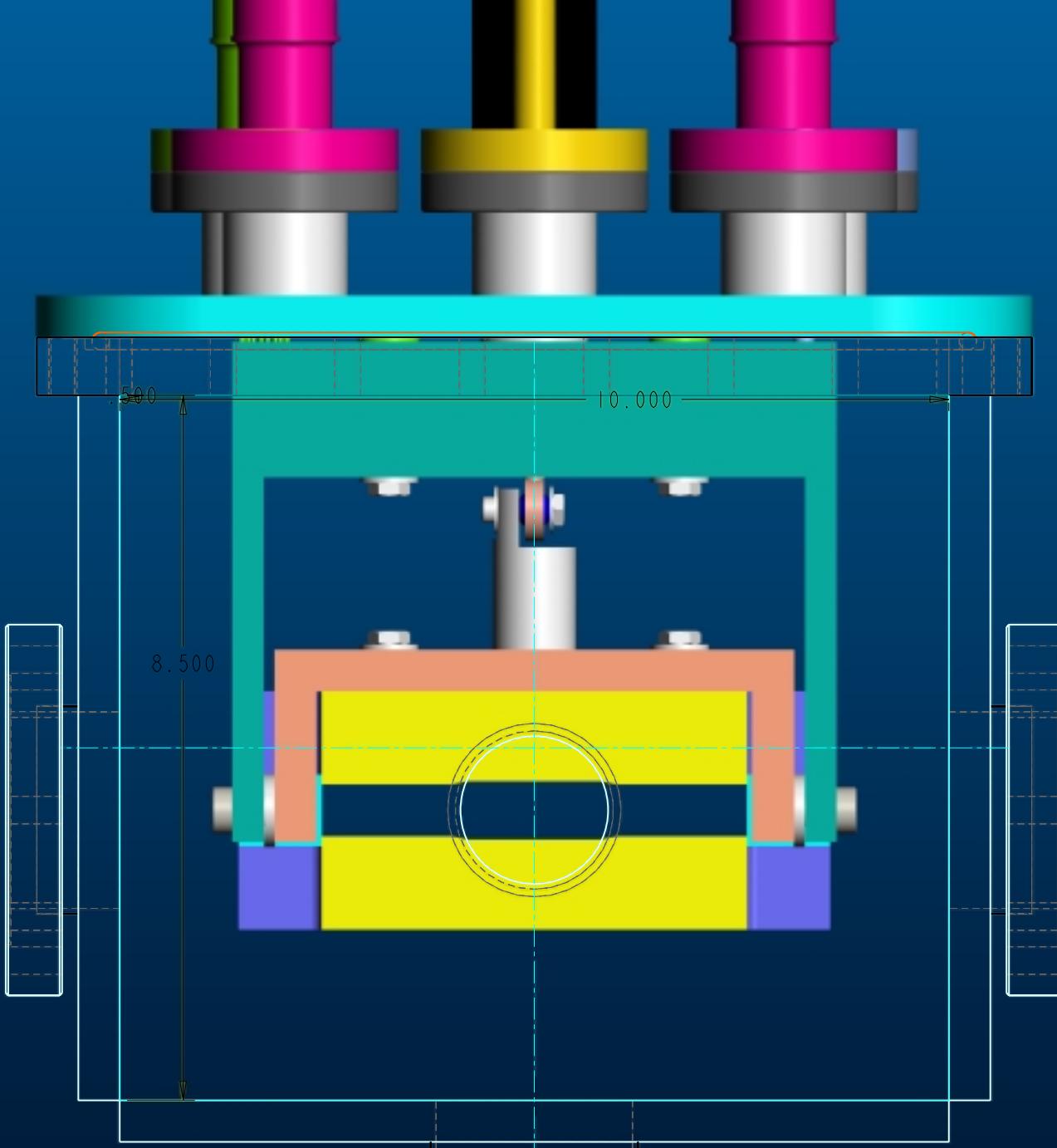
**Field Multipoles over all current range: 50-450-50 A**

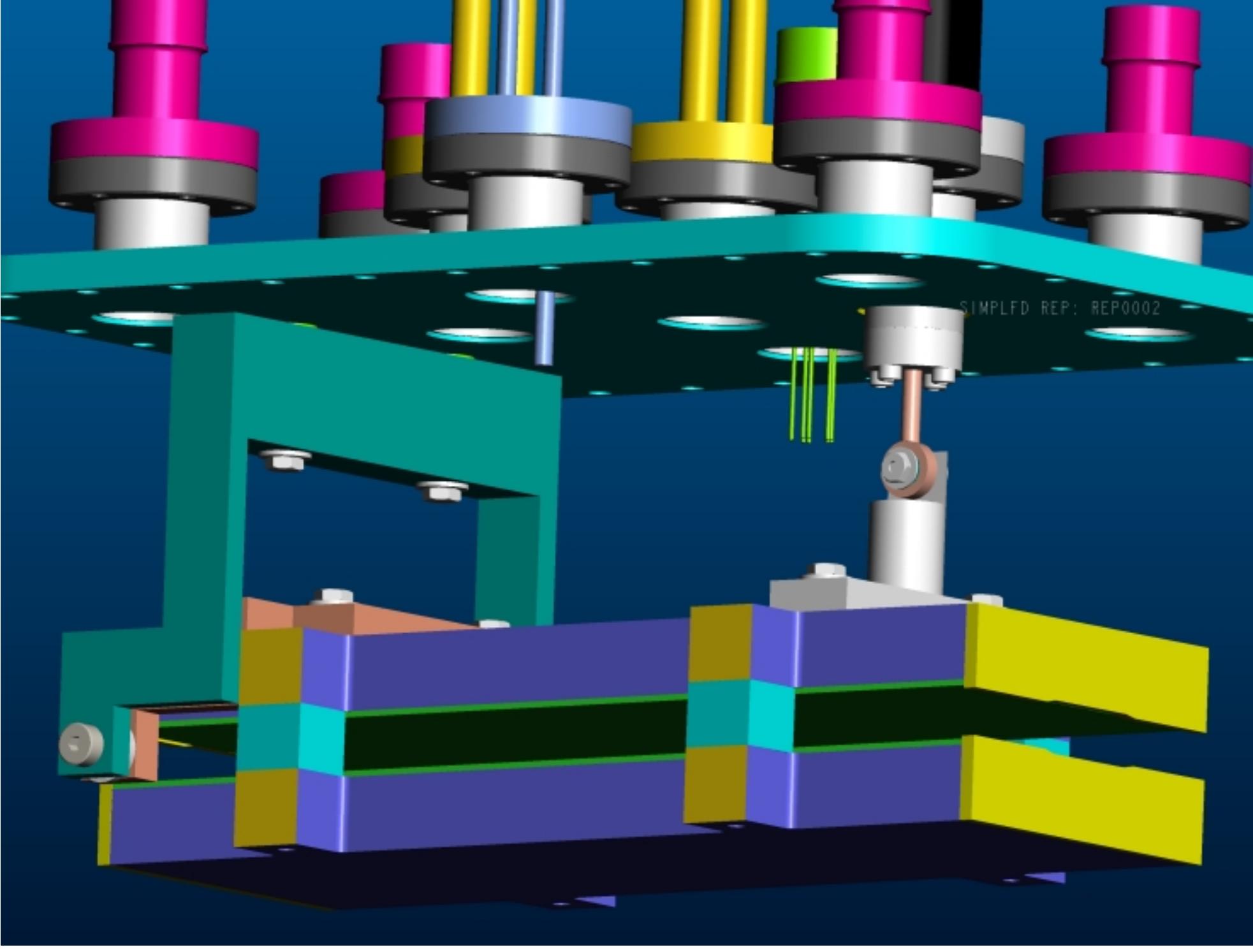
**CCW cn vs current**

**CW cn vs current**



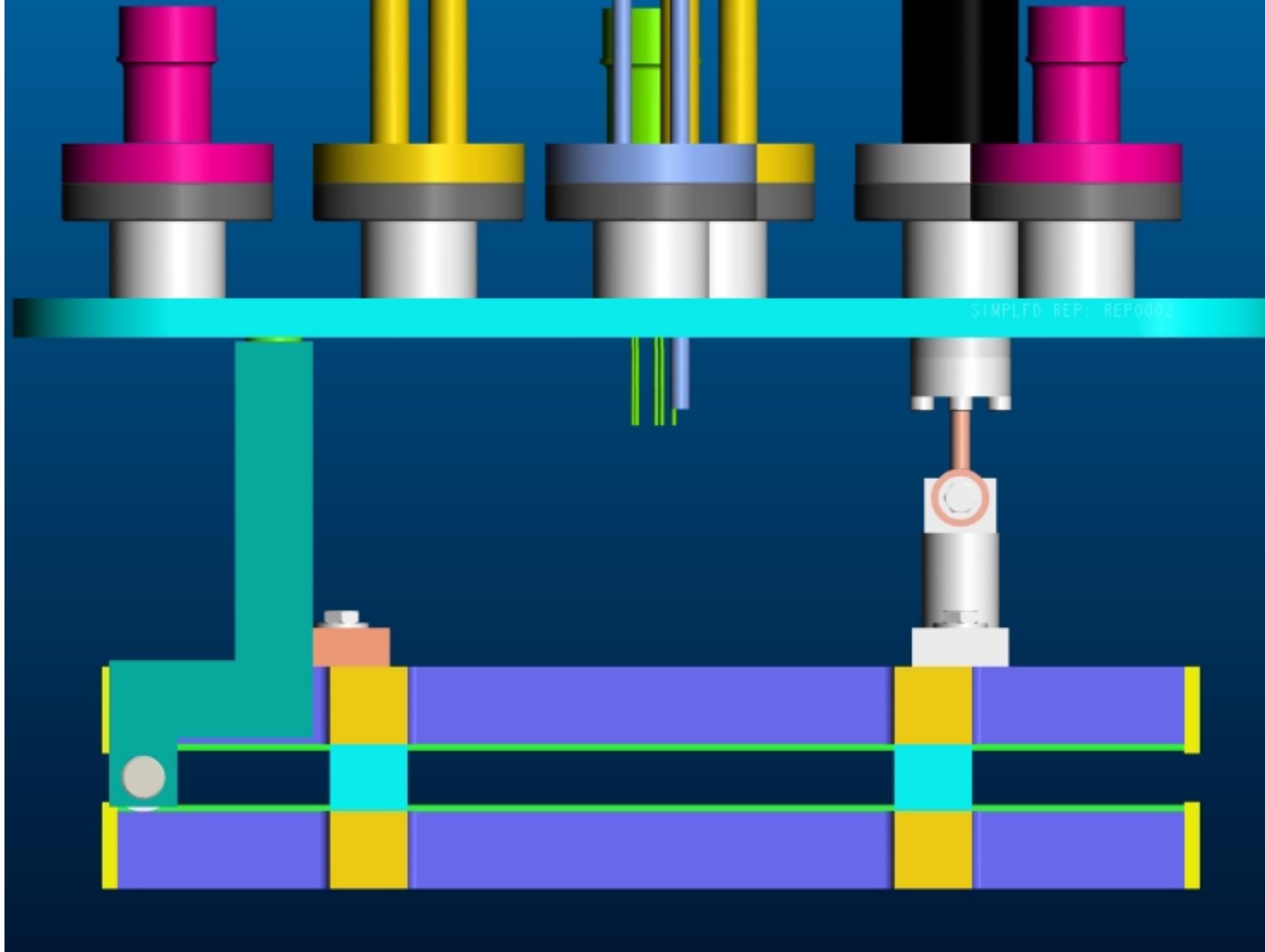


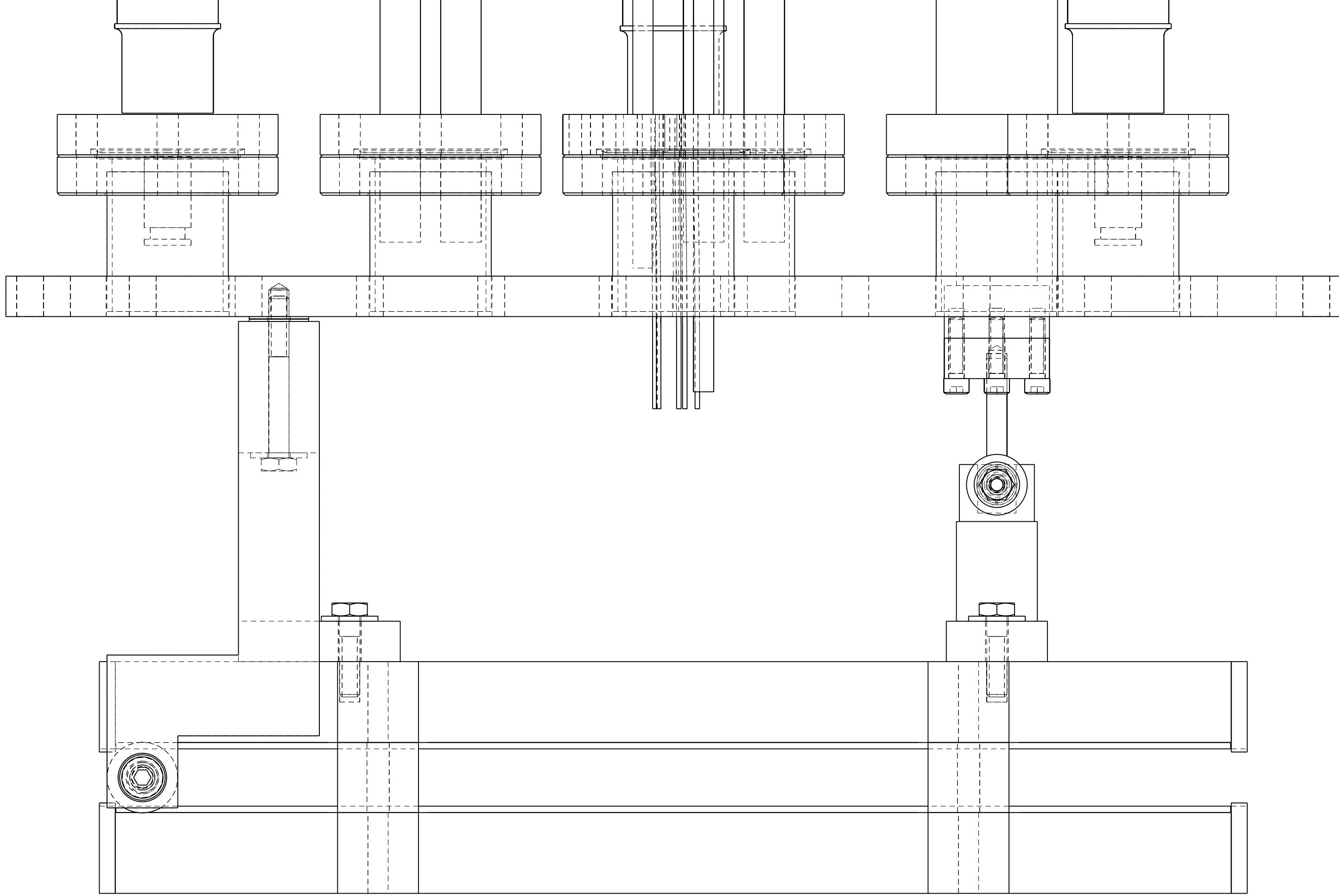


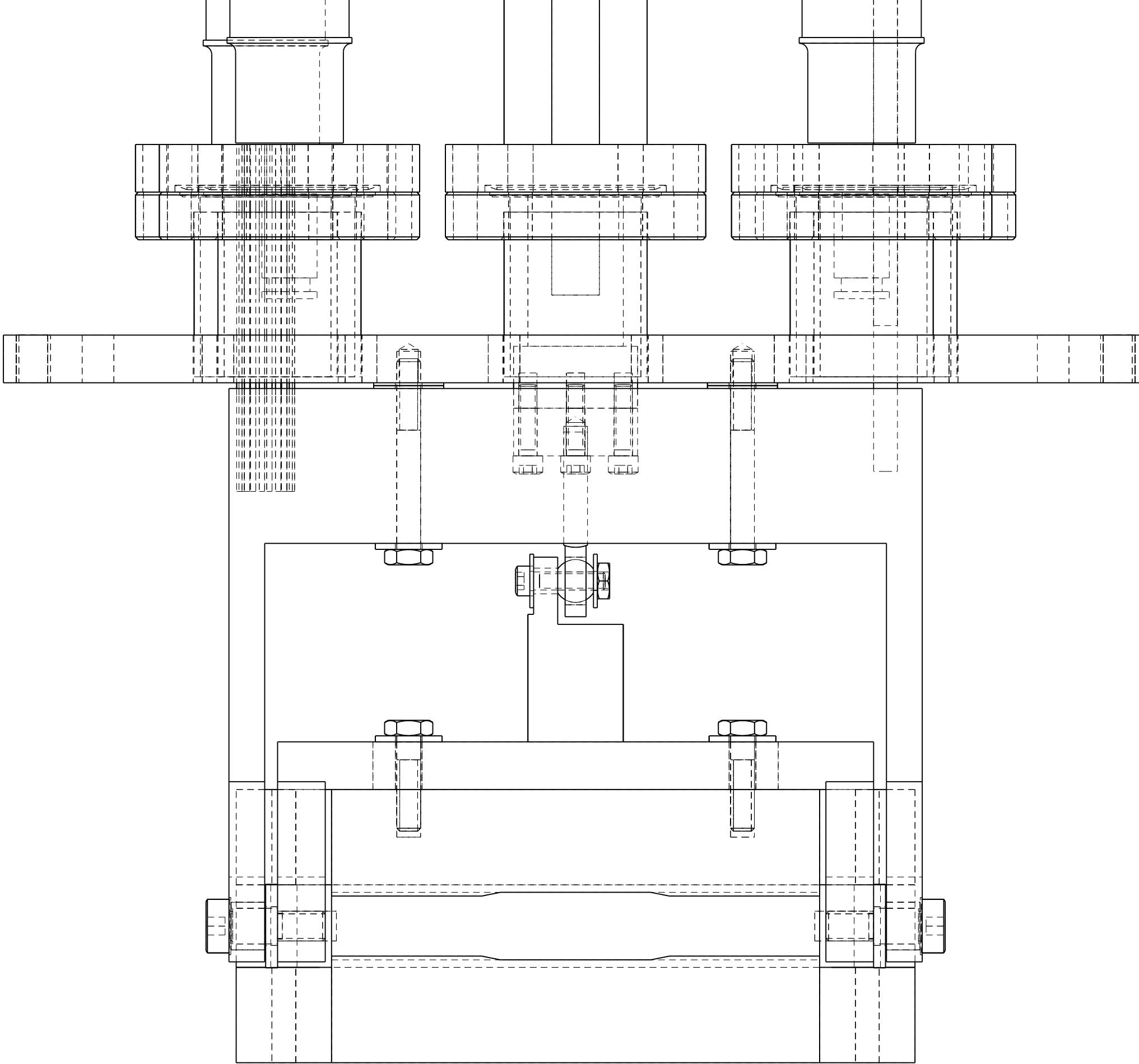


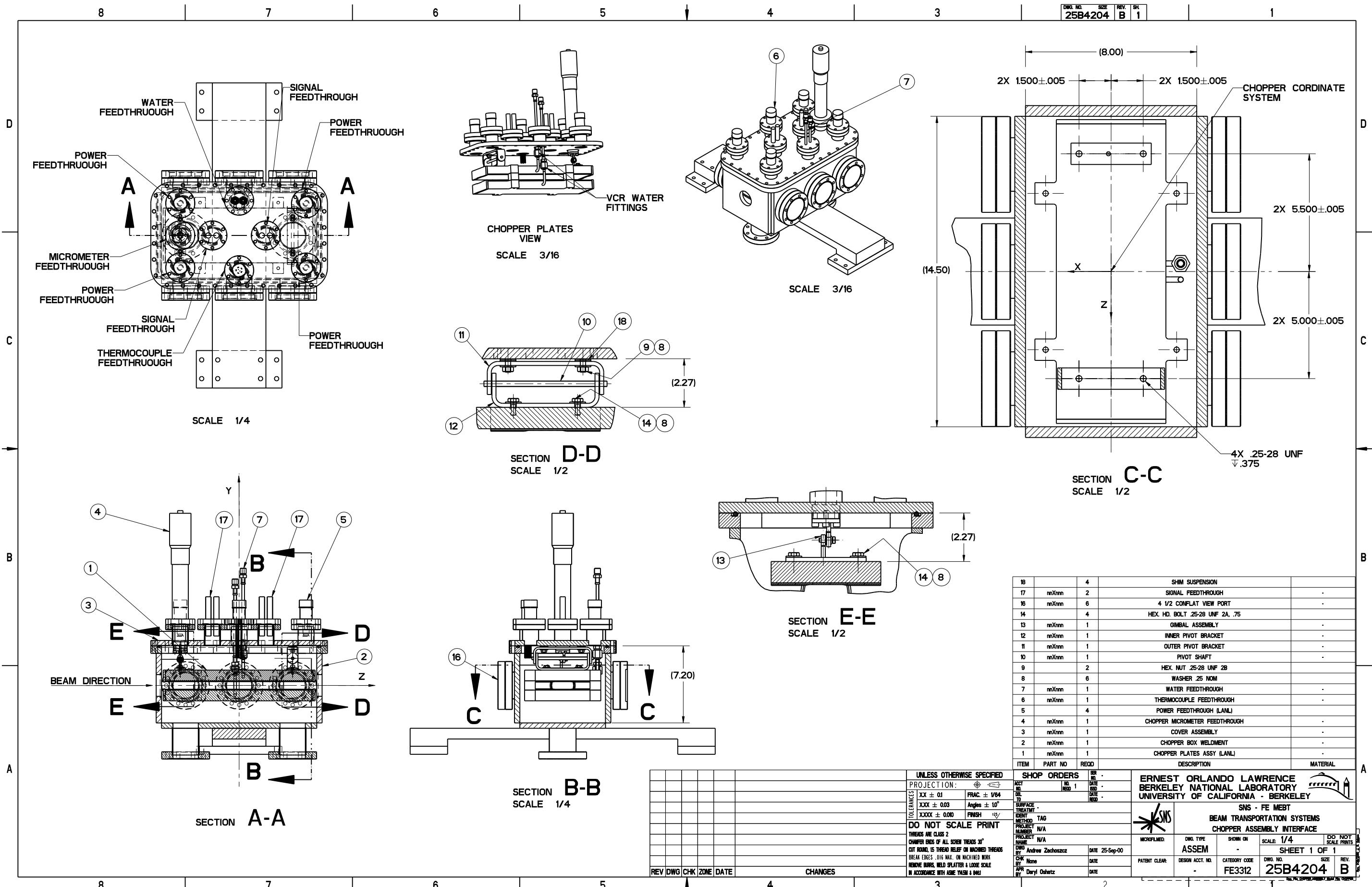
SIMPLFD REP: REP0002

SIMPLIFIED REP: REP0002

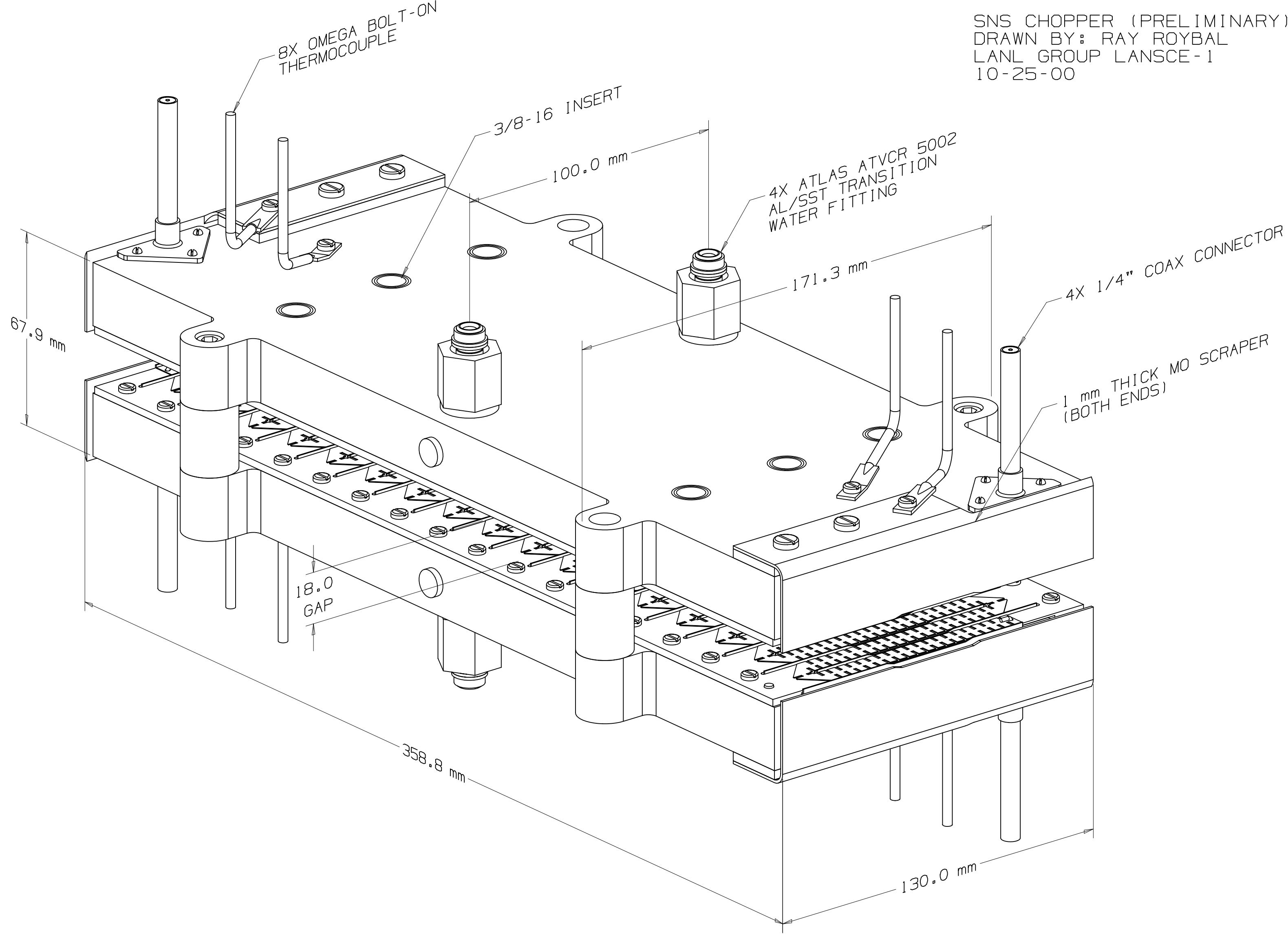


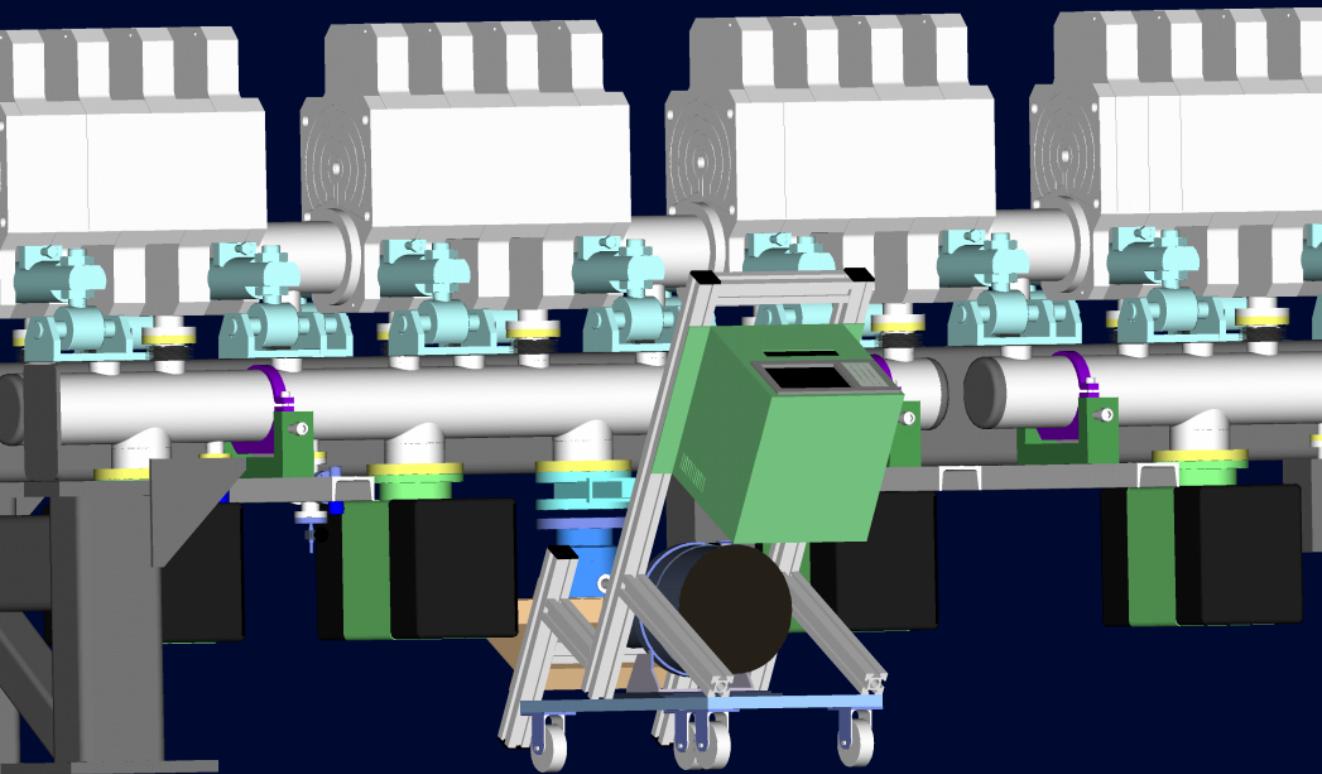




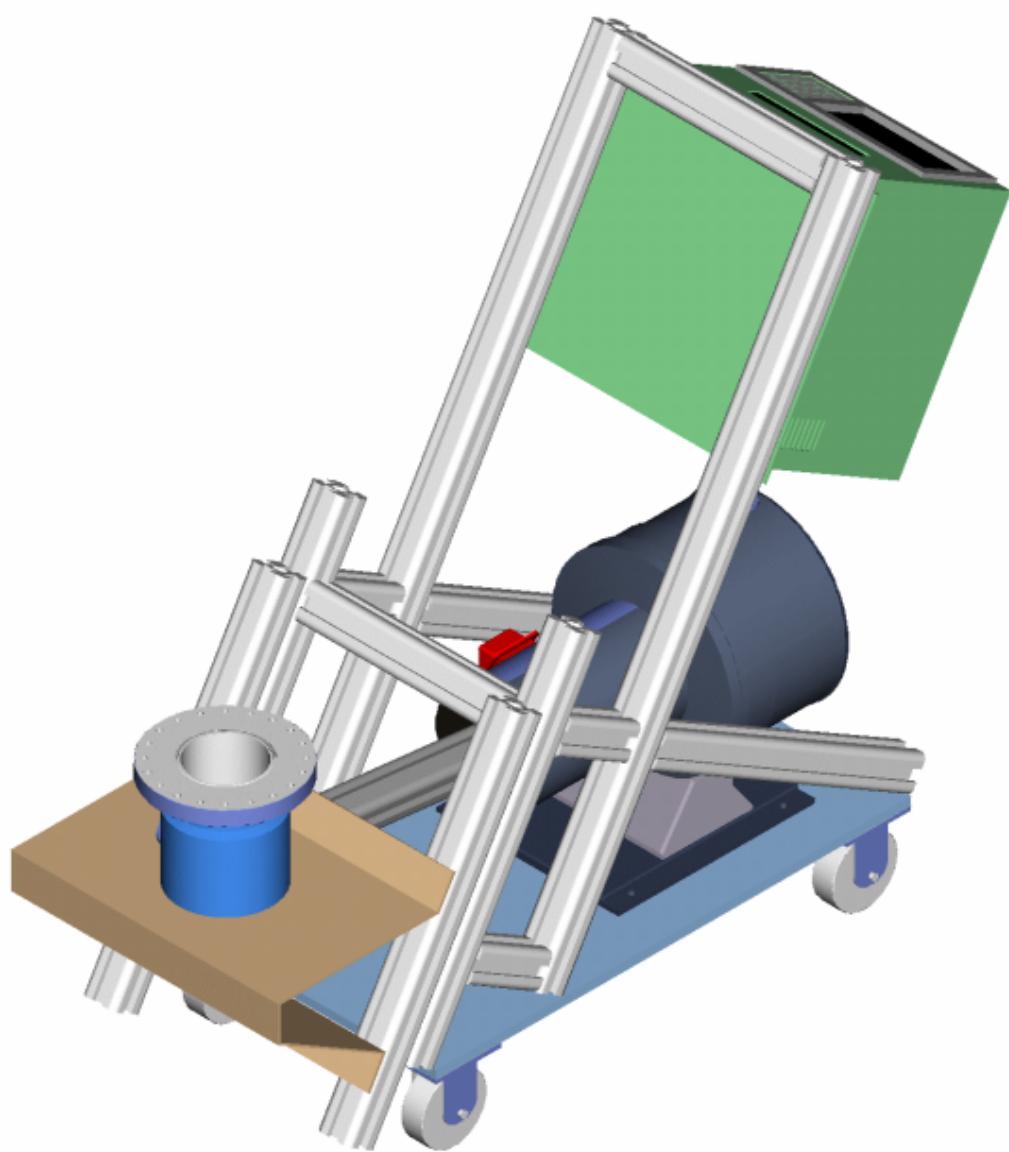


SNS CHOPPER (PRELIMINARY)  
DRAWN BY: RAY ROYBAL  
LANL GROUP LANSCE - 1  
10-25-00









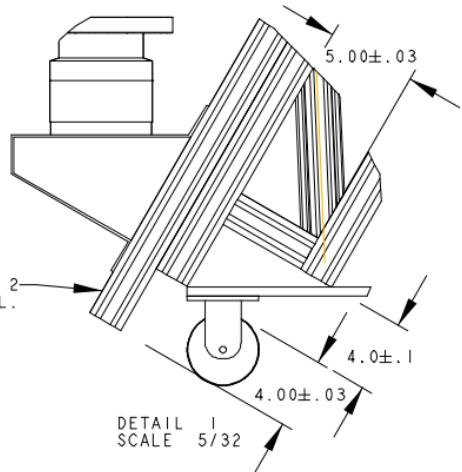


SCALE 3/64

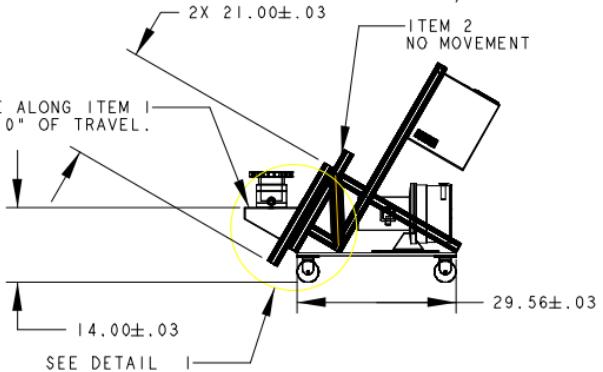


TURBO CART MODIFIED  
CART IS IN LOWER POSITION  
FOR USE WITH CCL SECTION.

ITEM 1 WILL SLIDE ALONG ITEM 2  
WITH APPROX. 8" OF TRAVEL.



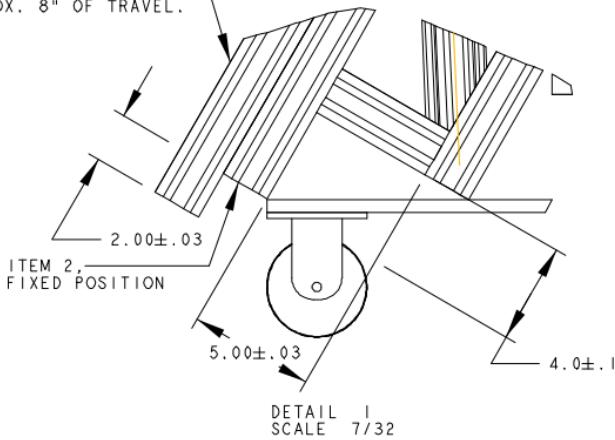
ITEM 3 WILL SLIDE ALONG ITEM 1  
WITH APPROX. 10" OF TRAVEL.



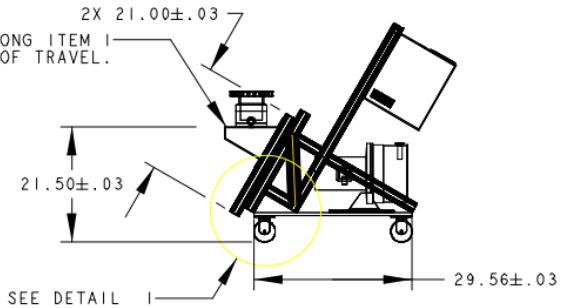


SCALE 3/64

ITEM 1, WILL SLIDE ALONG ITEM 2  
WITH APPROX. 8" OF TRAVEL.

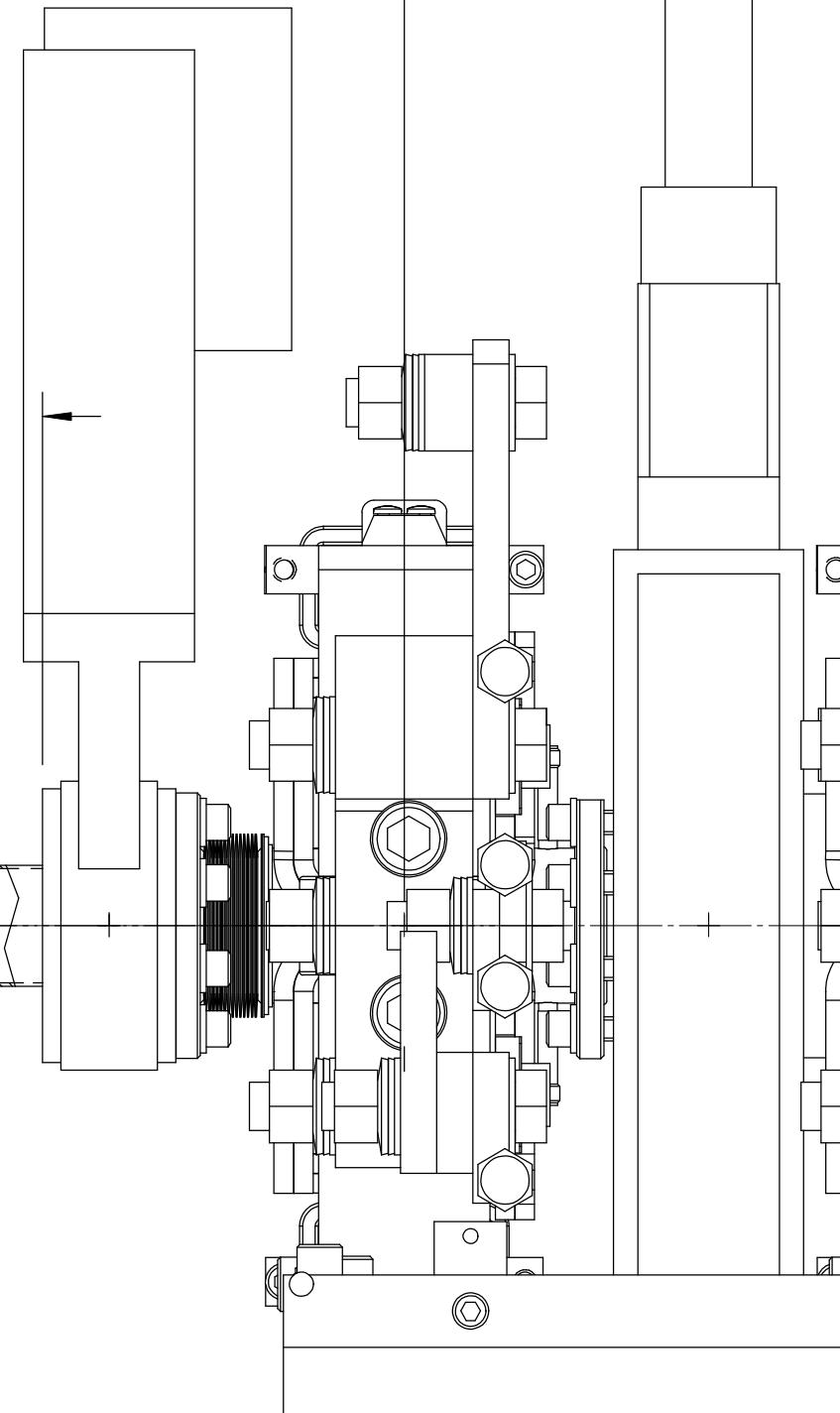
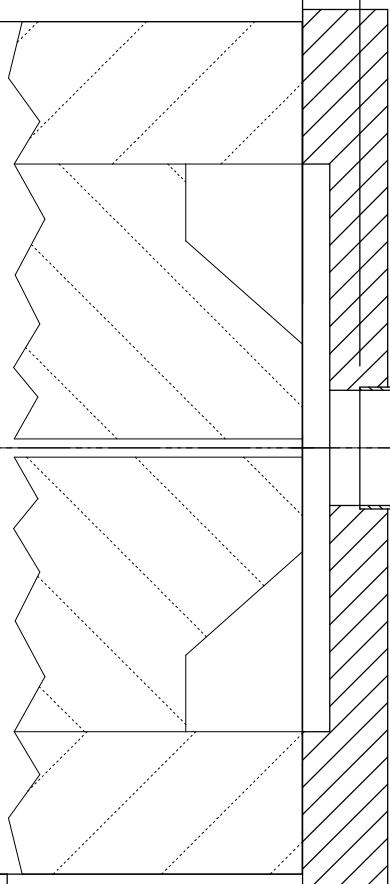


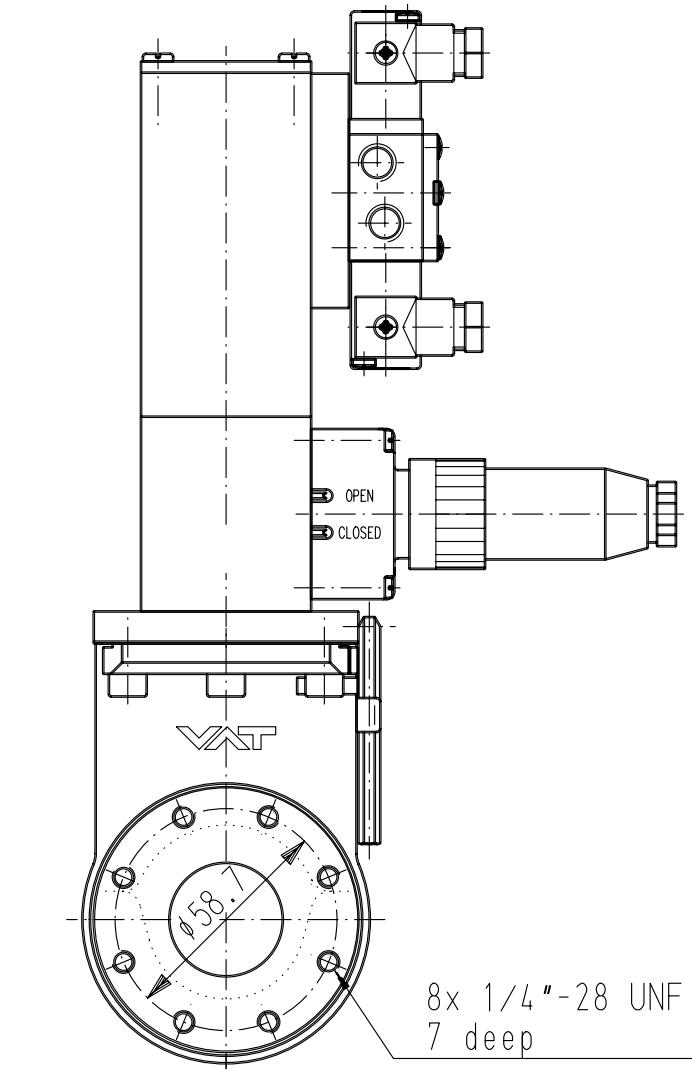
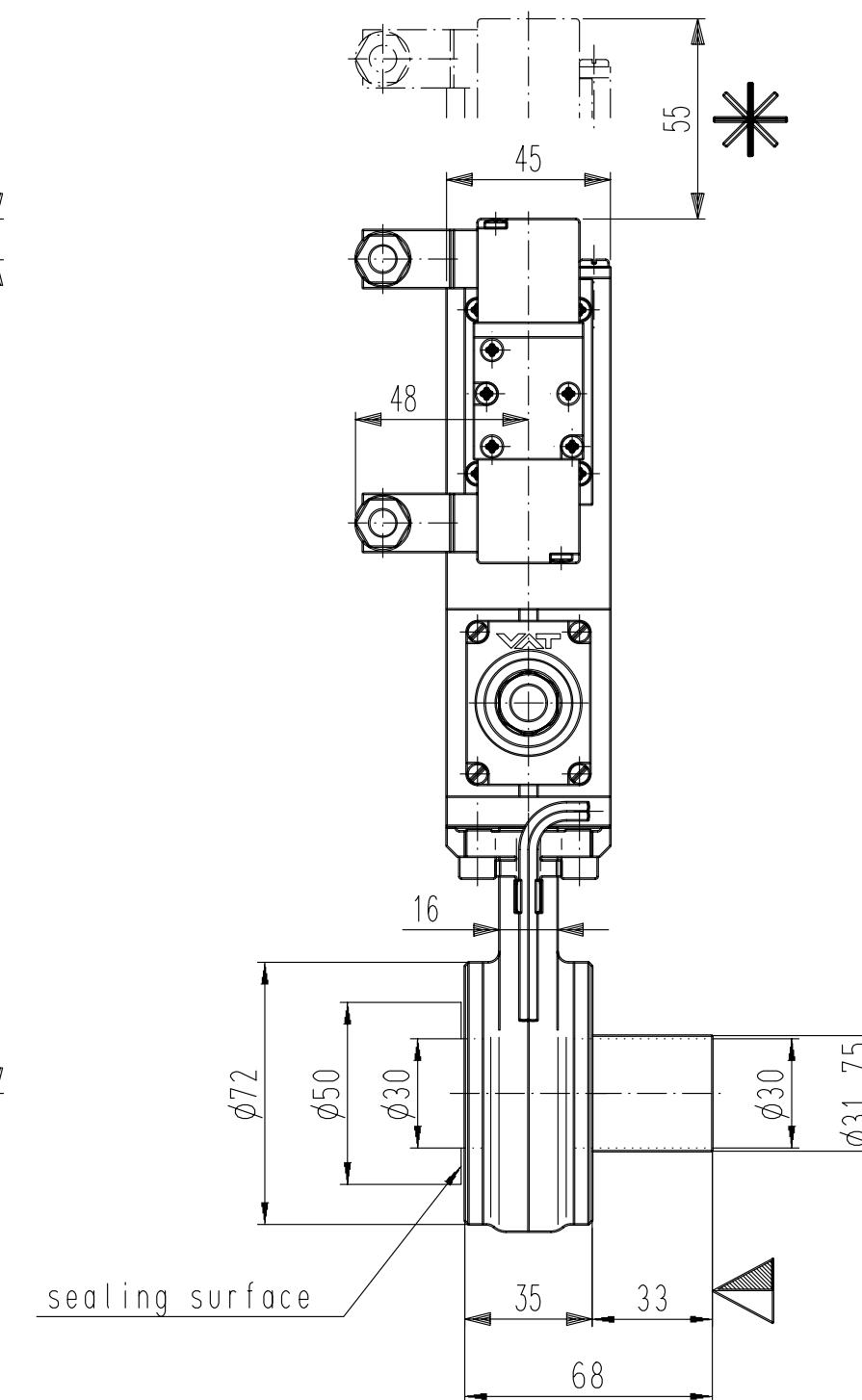
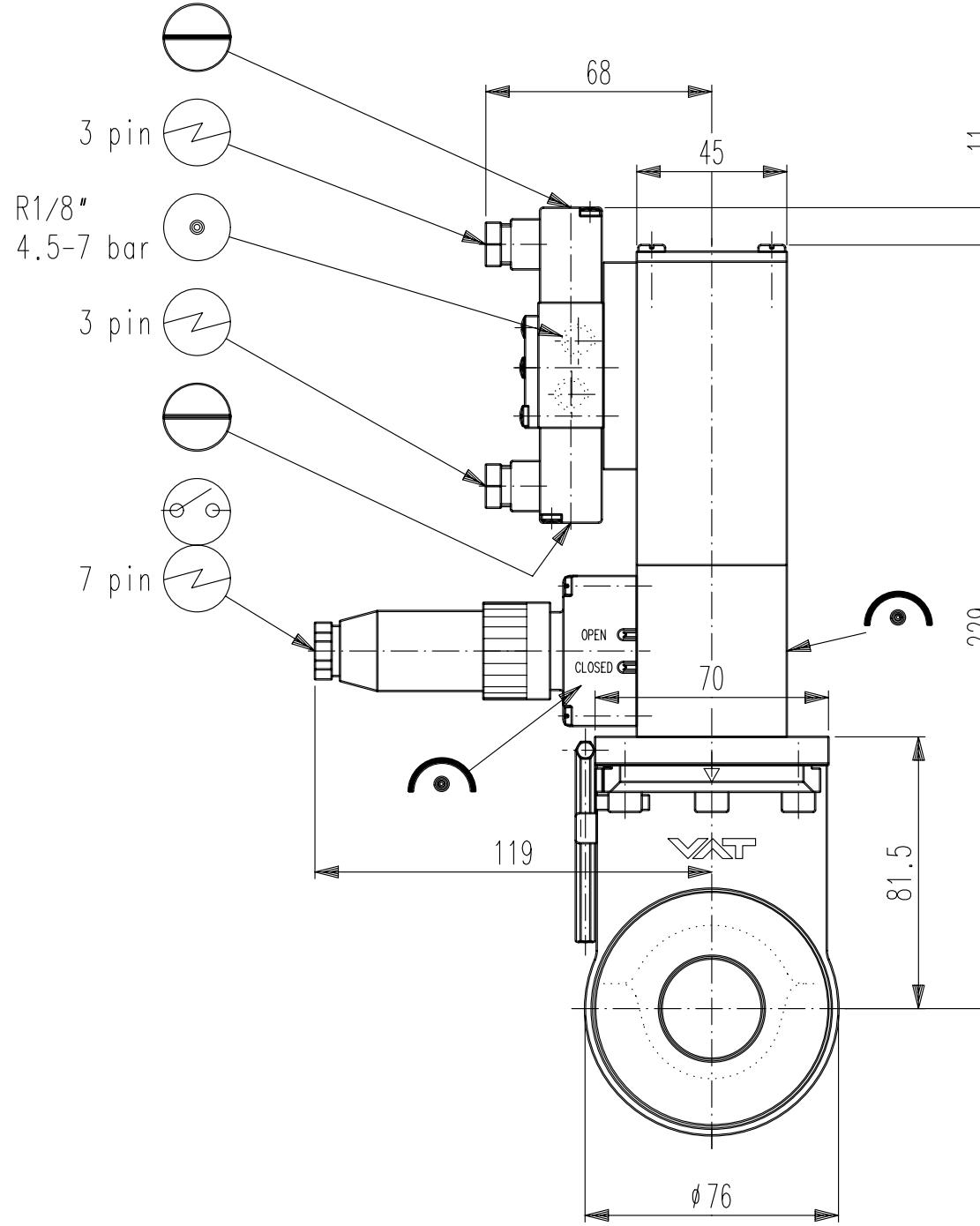
ITEM 3, WILL SLIDE ALONG ITEM 1  
WITH APPROX. 10" OF TRAVEL.



TURBO CART MODIFIED  
CART IS IN UPPER POSITION  
FOR USE WITH DTL SECTION.

25 mm





flanges dim. acc. University of California dwg. no. 25B1981 Rev A

- ▼ Seat side
- Comp. air connection
- Electrical connection
- Leak detection port
- Mech. pos. indication
- Position indicator
- \* Required for dismantling
- Emergency actuation
- For attachment
- Bake-out area

## Mini UHV gate valve

Pneumatic actuator double acting  
Flanges customer specific  
Impulse solenoid



VAT Vakuumventile AG

CH-9469 Haag , Switzerland

Tel ++41 81 7716161 Fax ++41 81 7714830

Series	Ordering No.
01	01032-XE44-X
40	Flange special
Dimensional Drawing	Rev.
213321	