

LEReC Cathode Puck Insertion System with DC gun

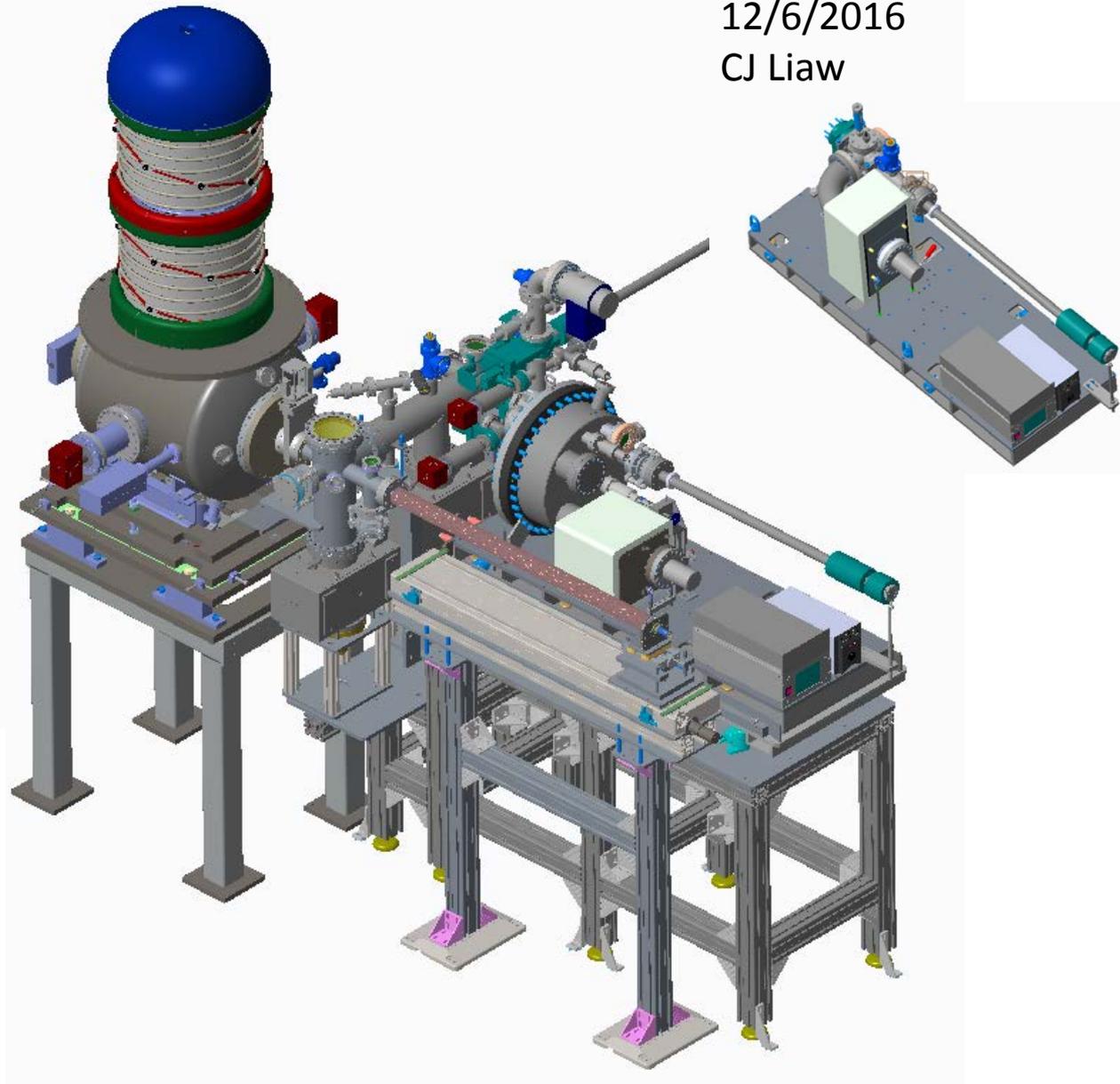
12/6/2016
CJ Liaw



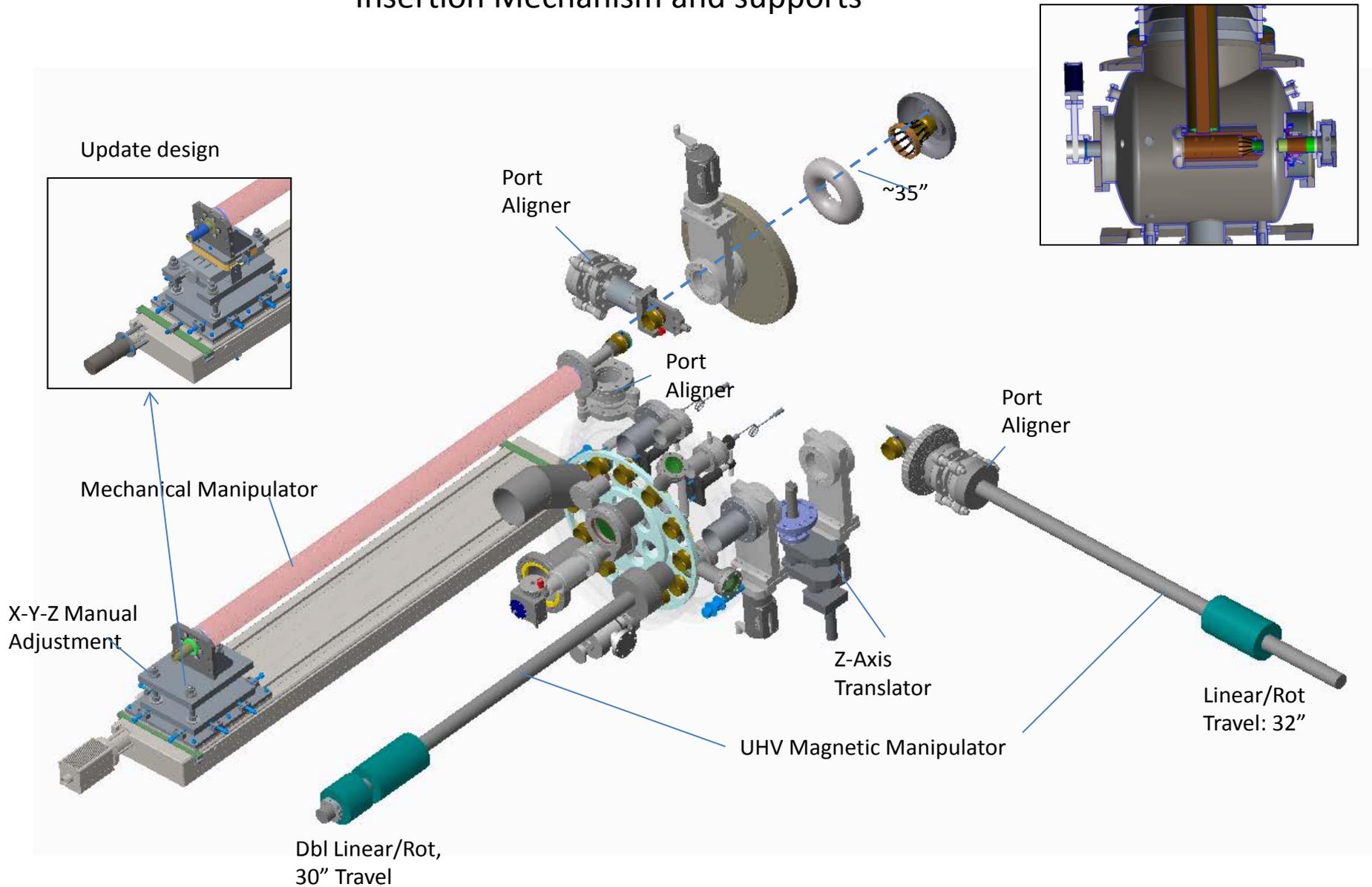
Mobile Lift Table



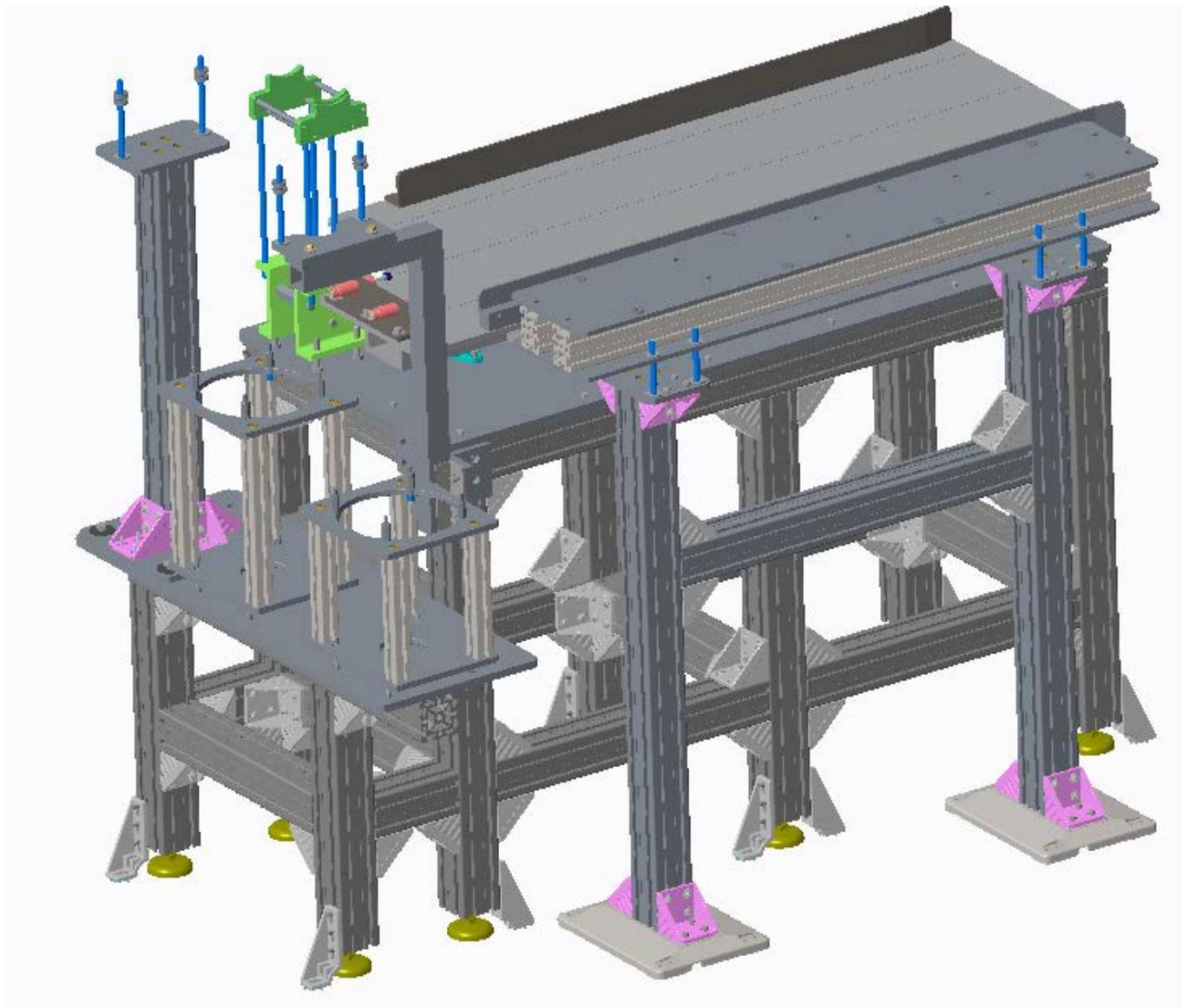
Preparation table



Insertion Mechanism and supports

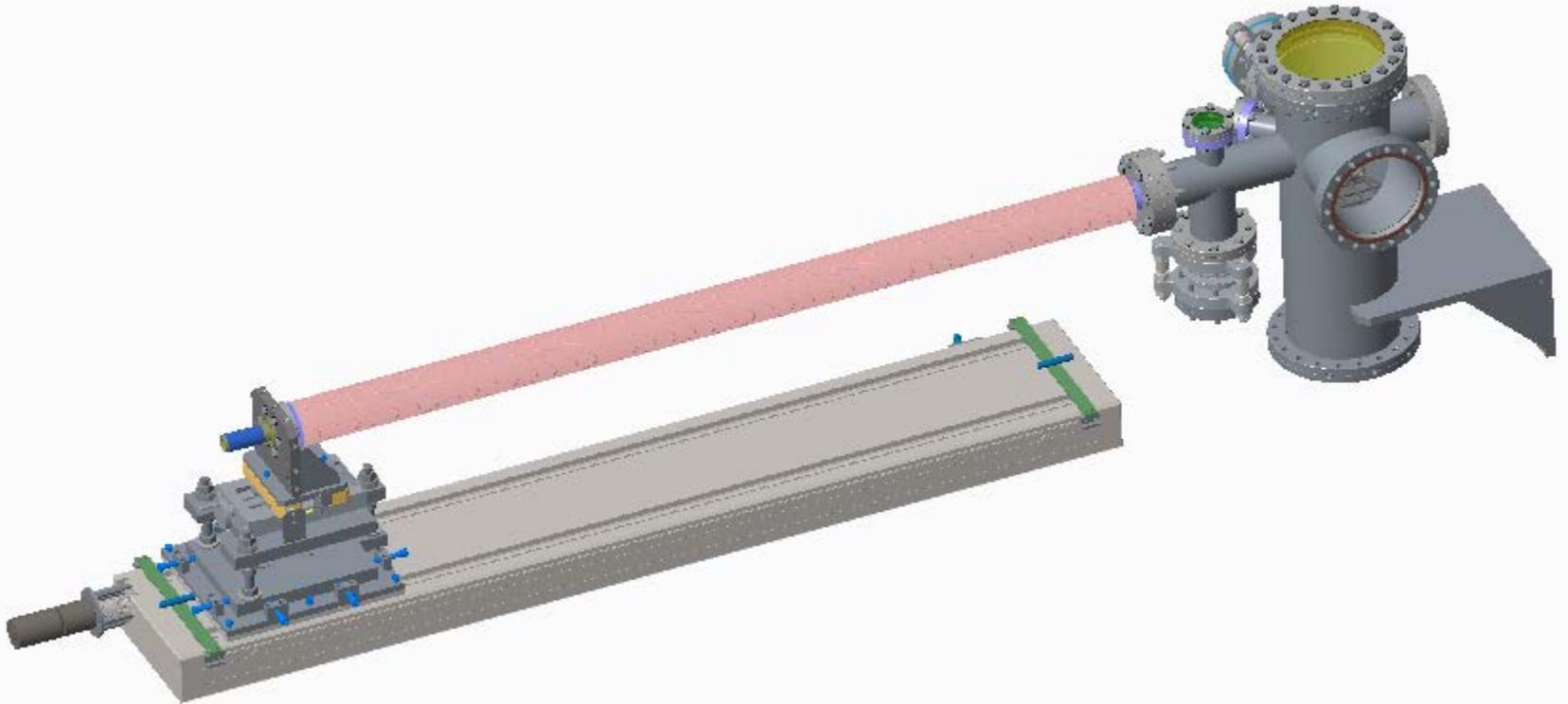


Support Stand: Ready for the installation at 1002.

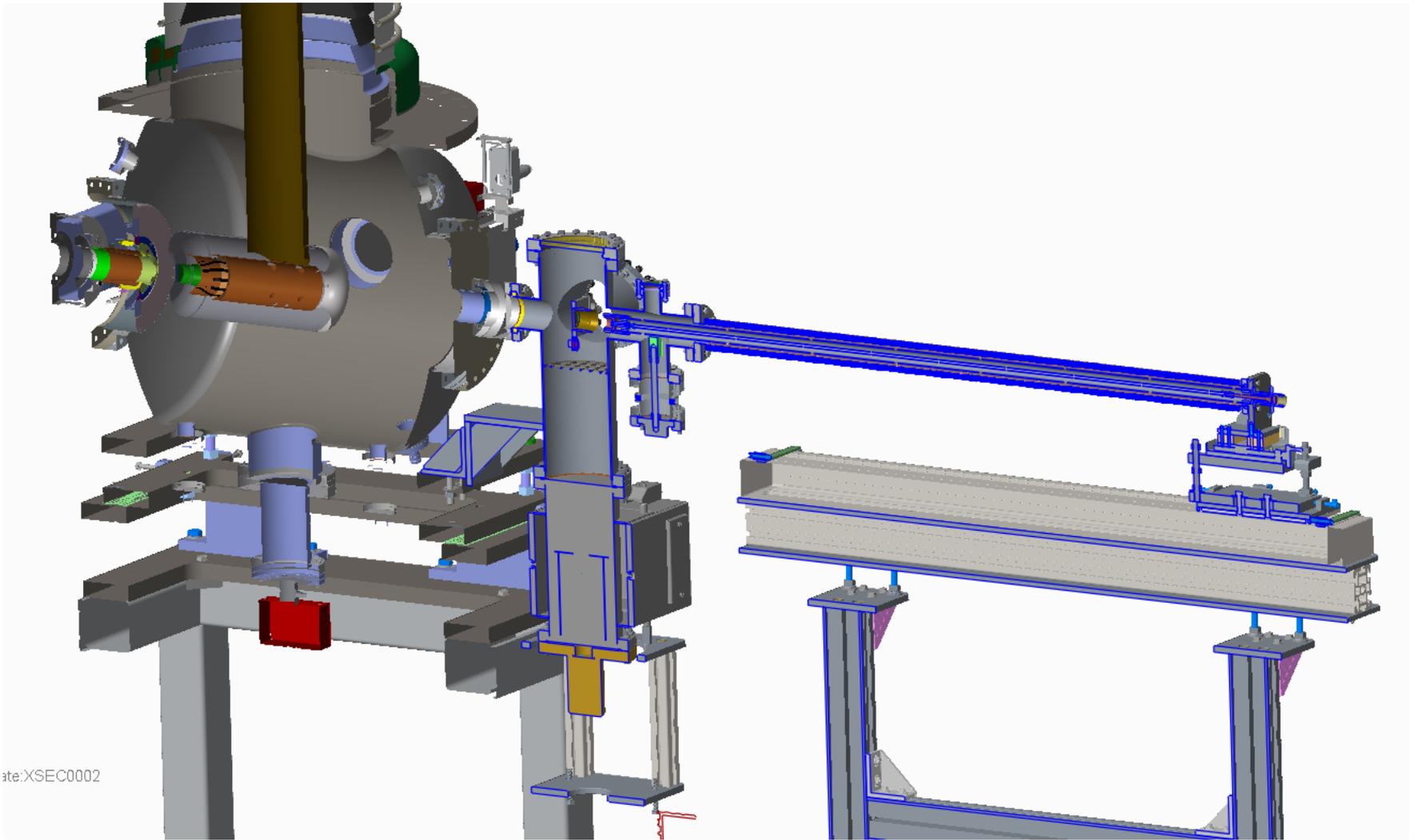


Puck Insertion Section :

- To be assembled in 912 Clean Room.
- To pre-survey puck position at 912.

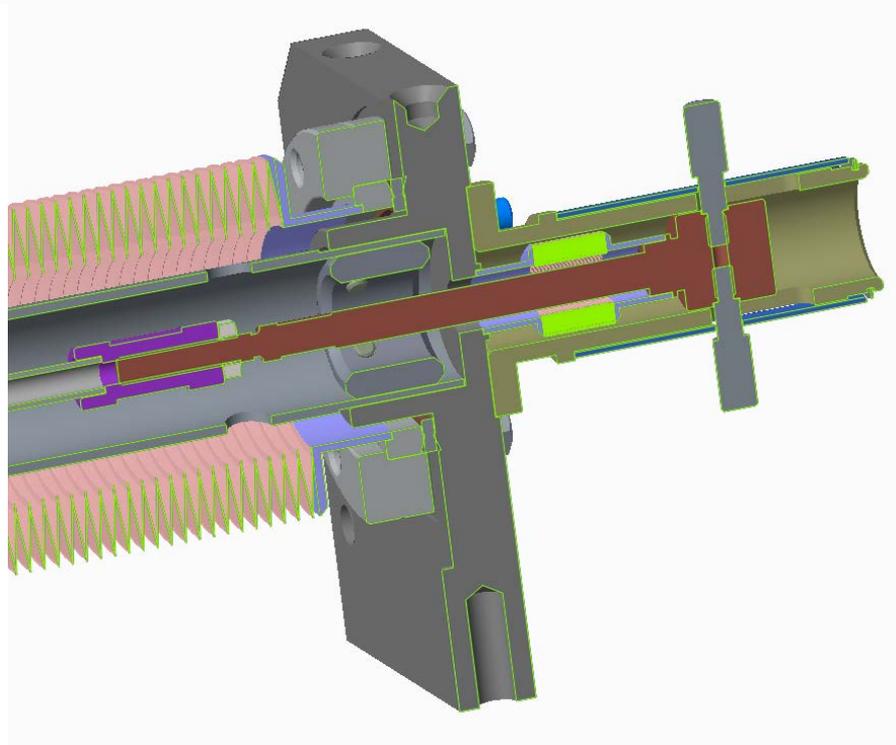
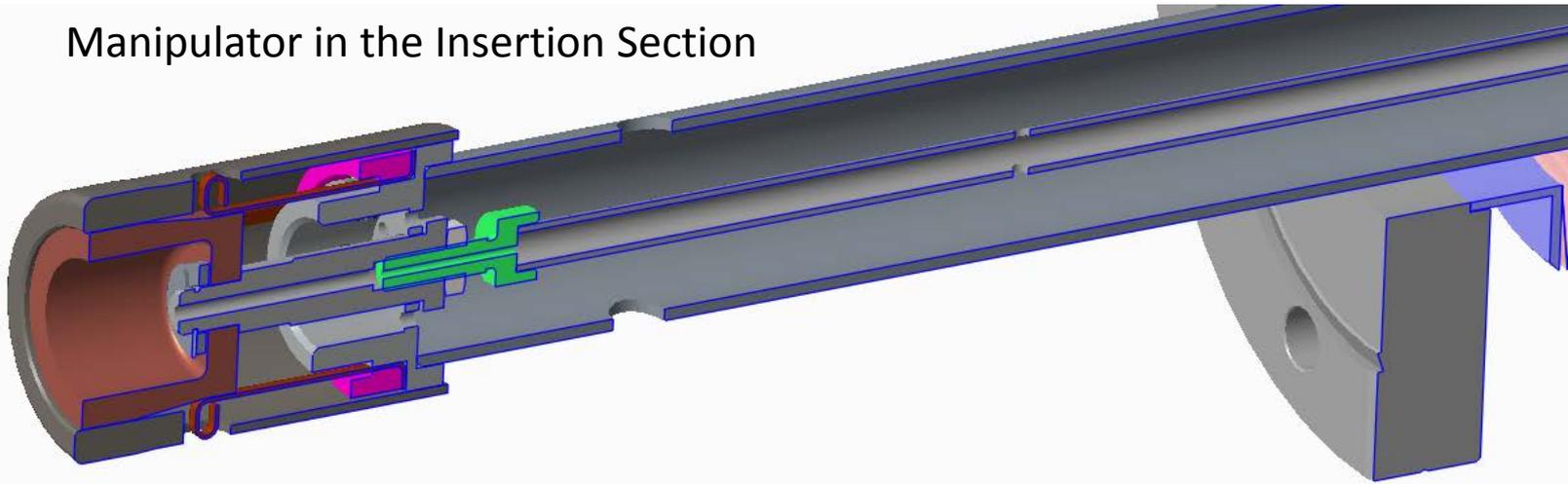


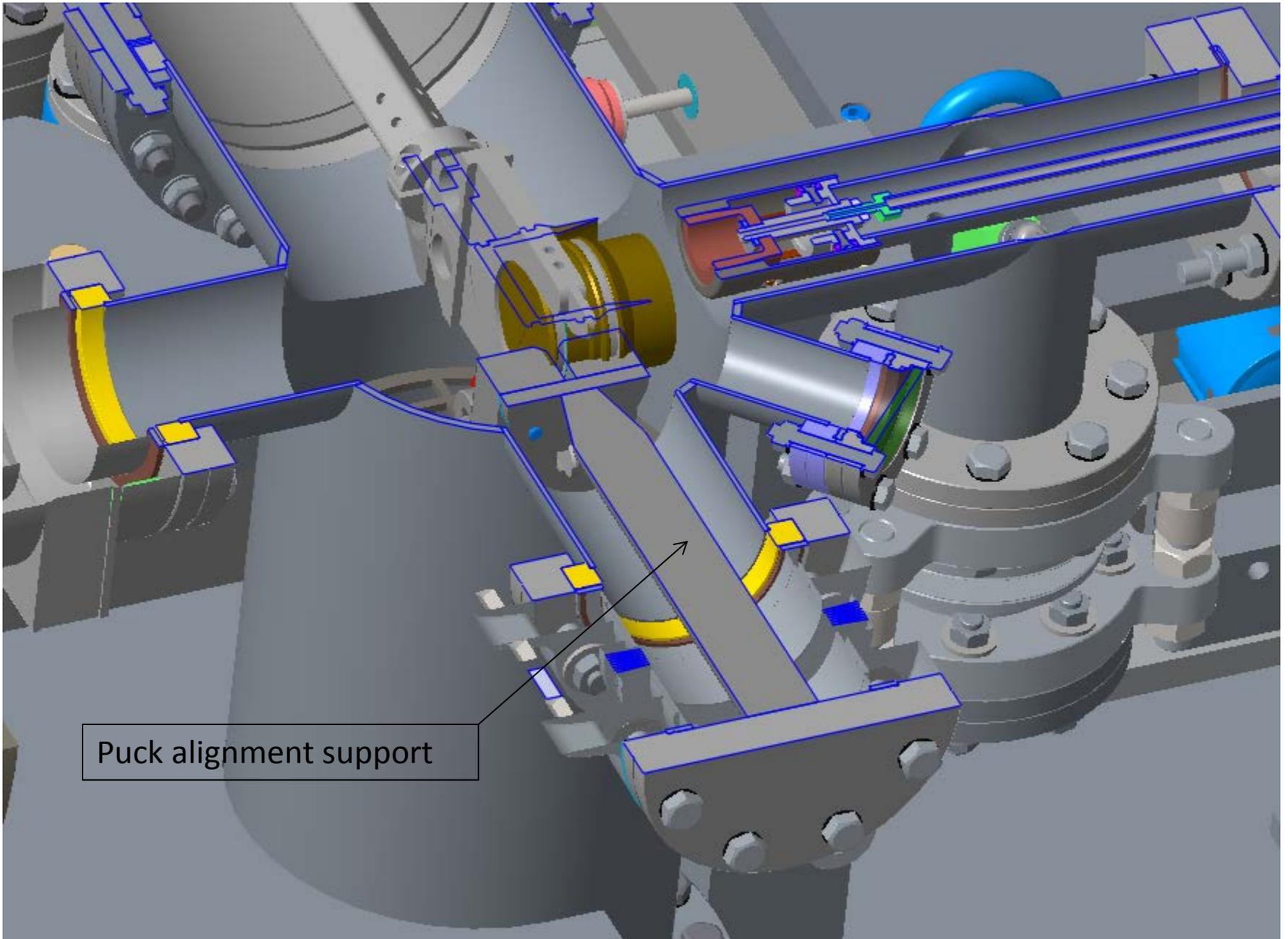
Cross section of Puck Insertion Section



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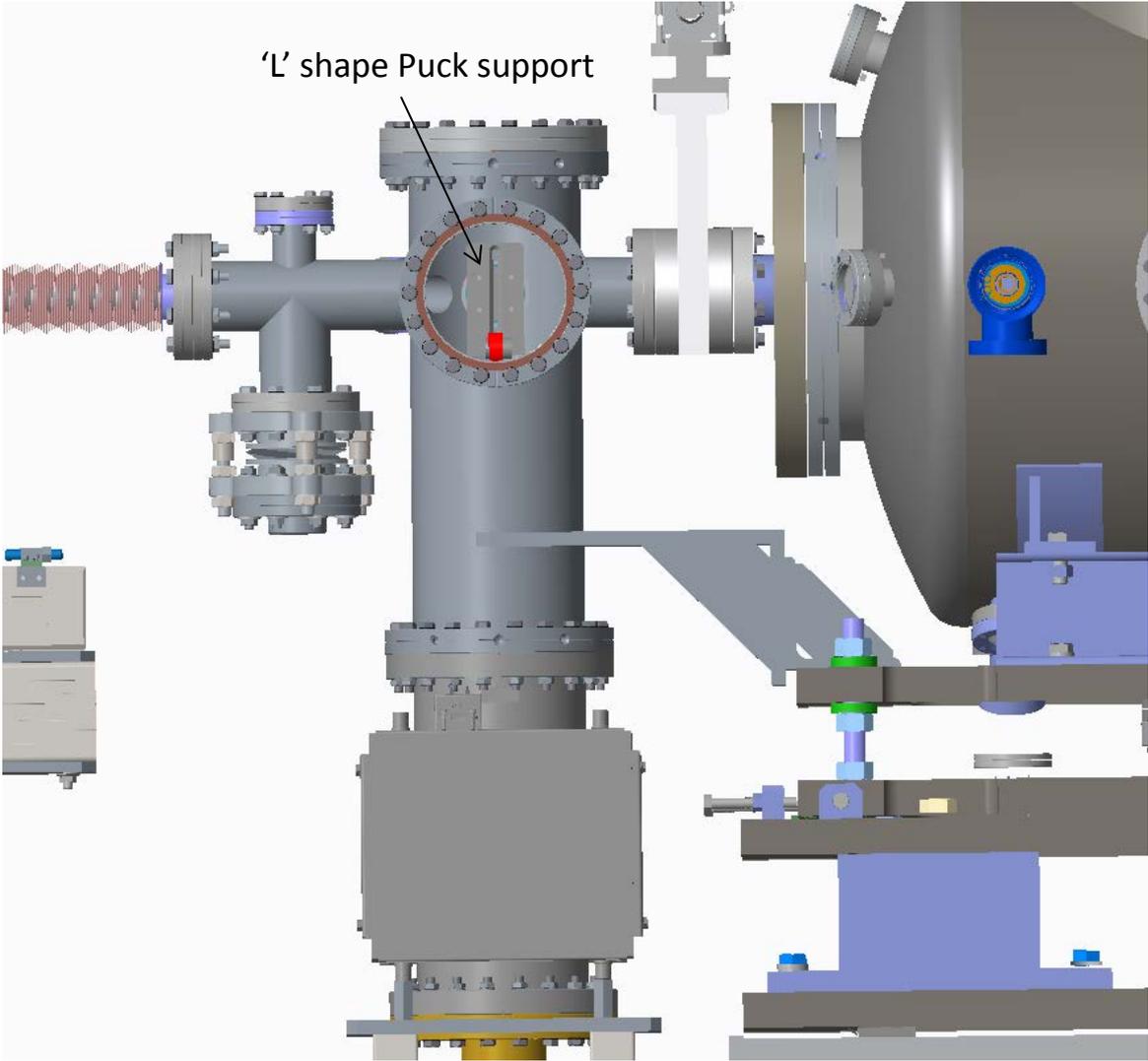
Manipulator in the Insertion Section





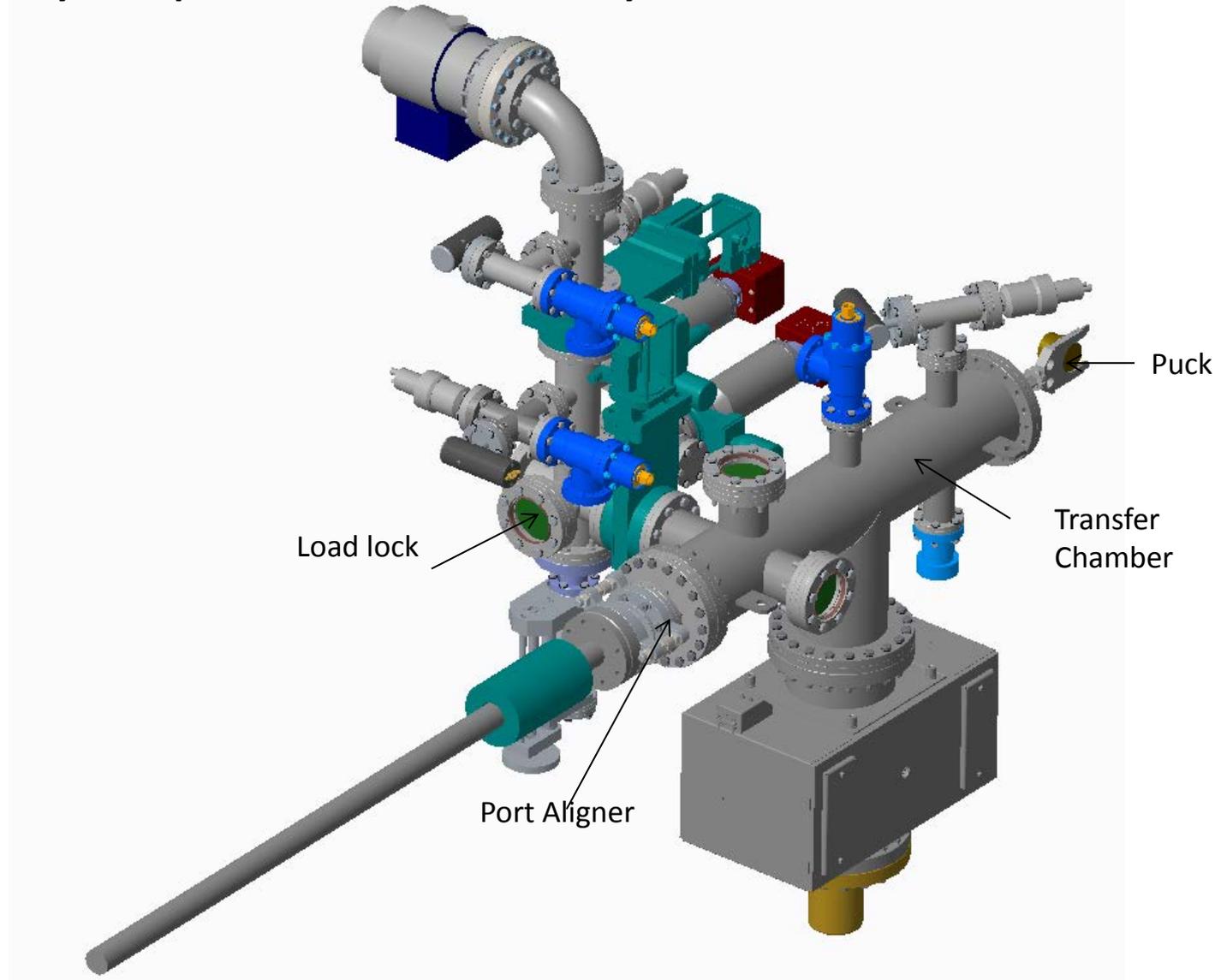
Puck alignment support

Insertion Section Viewing from Transfer Section



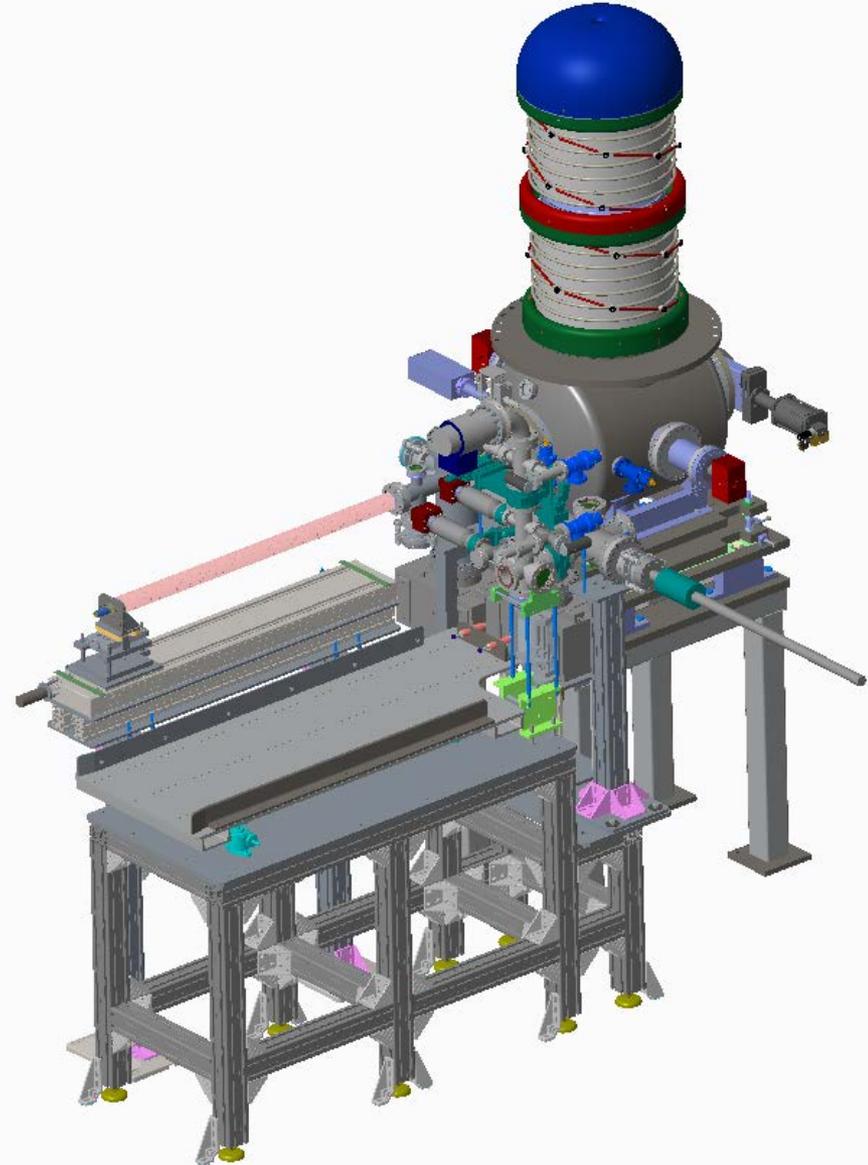
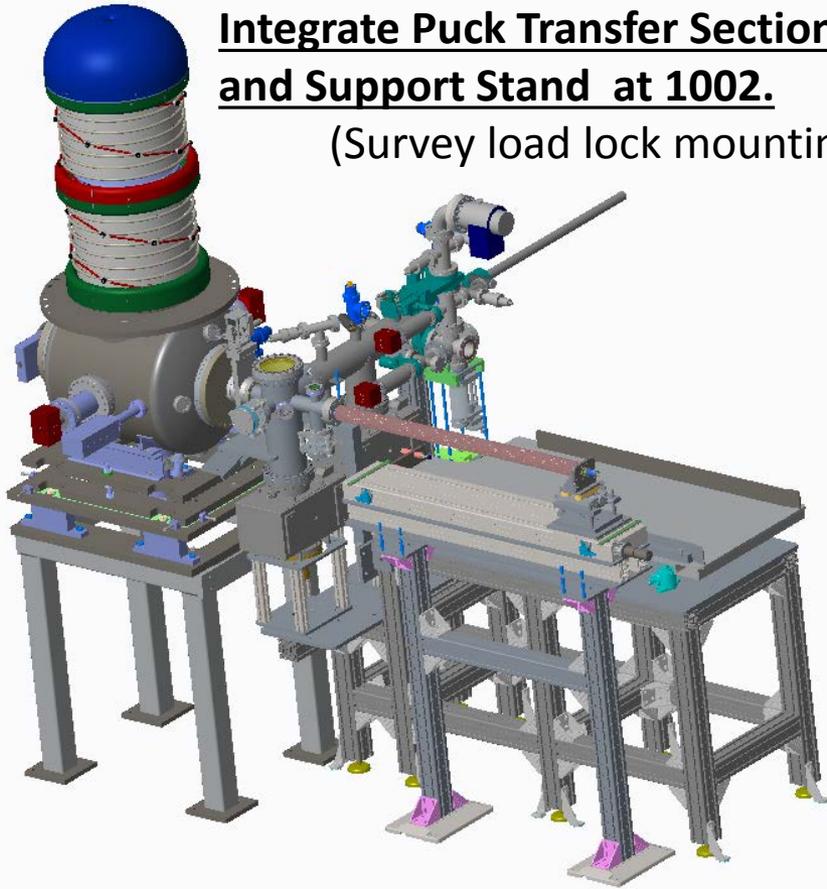
Puck Transfer Section:

- To be assembled in 912 Clean Room.
- To Pre Survey Puck position after the assembly.



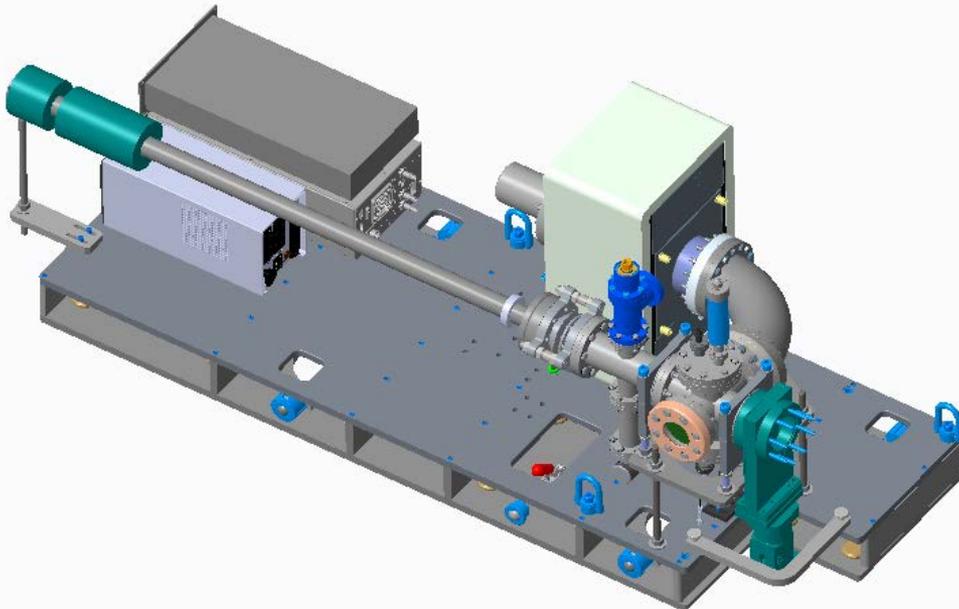
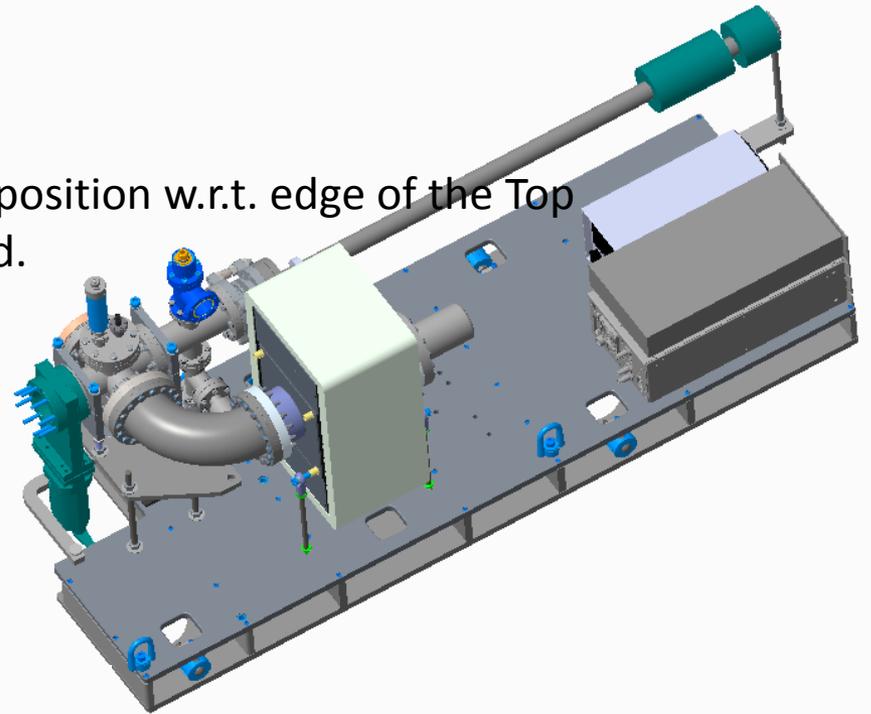
Integrate Puck Transfer Section, Puck Insertion Section, Vacuum Equipment, and Support Stand at 1002.

(Survey load lock mounting flange location w.r.t Guide rail.)

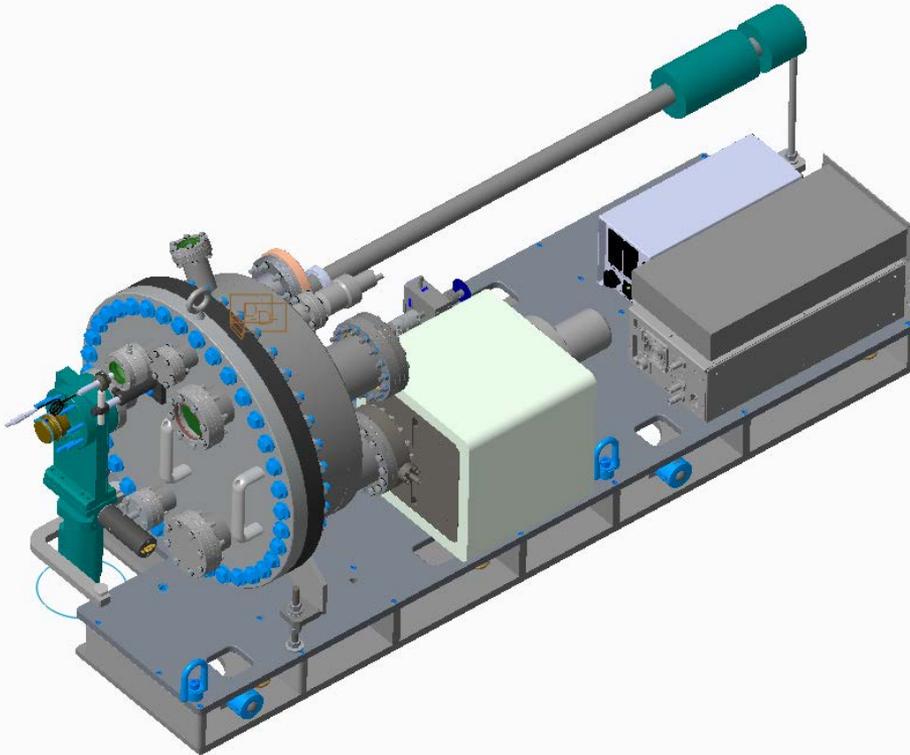
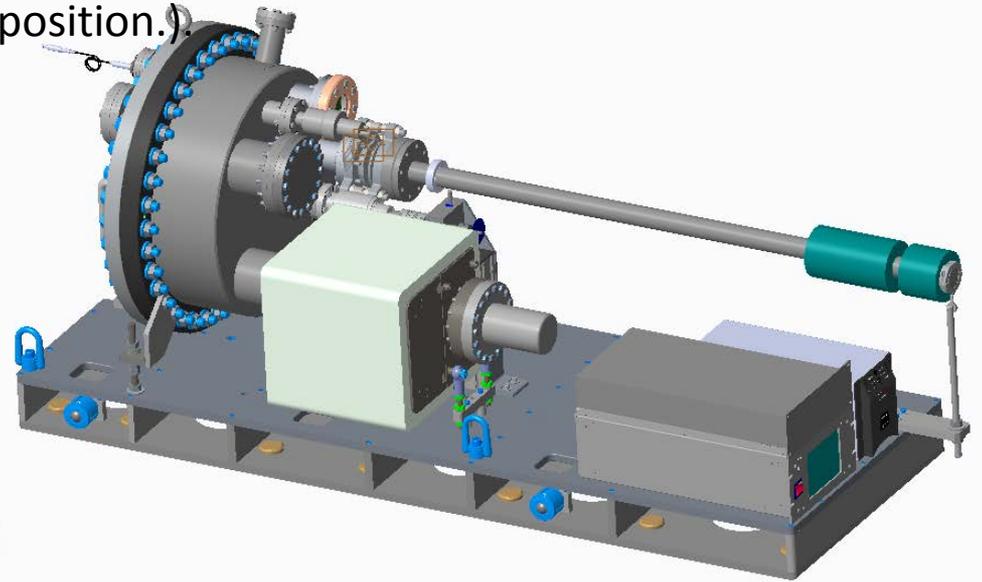


Single Carrier Suitcase Assembly: (2 units)

- To be assembled in 912 Clean Room (2X).
- To pre-survey gate valve mounting flange position w.r.t. edge of the Top pallet plate. Make adjustments as required.

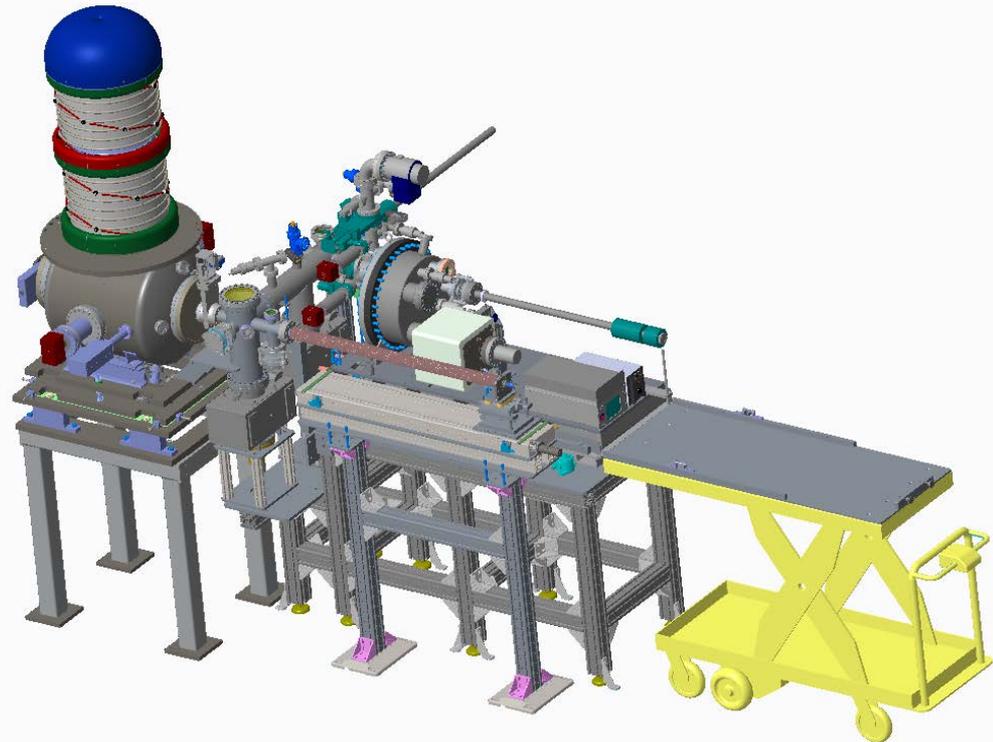
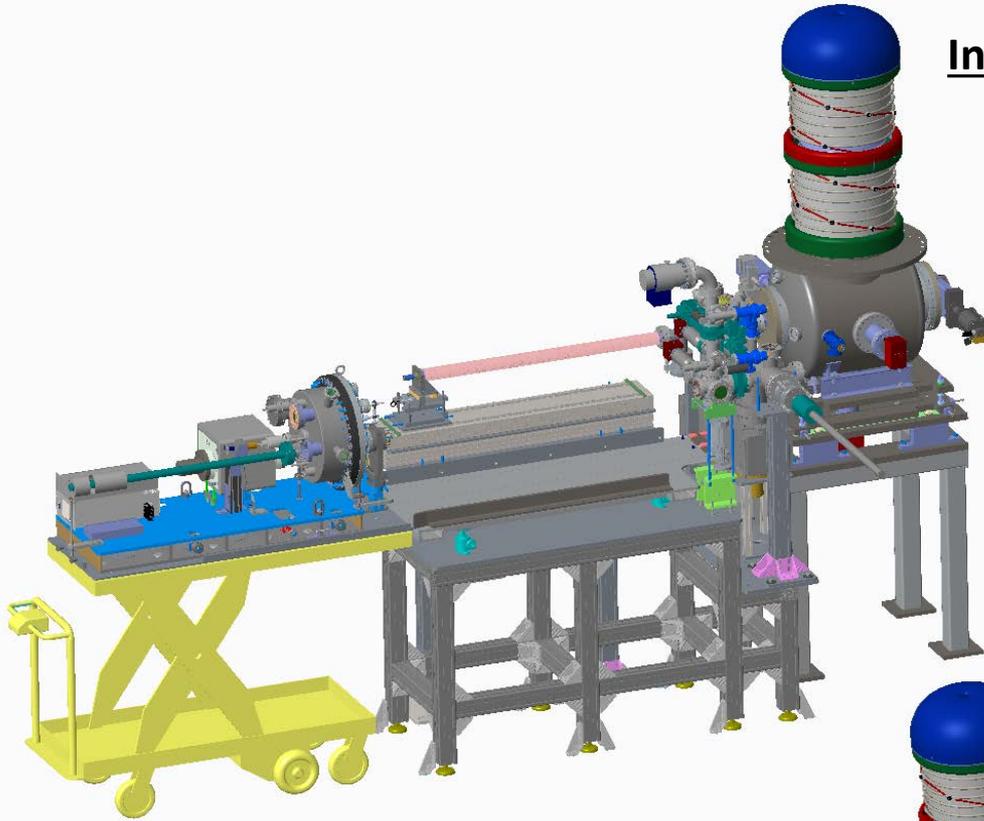


Step 6: Assemble Ferris Wheel Suitcase Assembly in 912 Clean Room (1X).
(Survey gate valve mounting flange position.)



Install Suitcase assembly at 1002.

- Try out puck insertion/
removing procedures.
- Remove the puck inside the gun and store
it into the suitcase.



The polished surface on the moly puck got “corroded “ when exposing to moisture and dust in ambient.



	Task Mor	Task Name	Duration	Start	Finish	Pre	R
1		Schedule of Cathode puck Insertion System (Remaining Task)	50 days	Mon 12/5/16	Fri 2/10/17		
2		Parts fabrication in the Shop	3 days	Mon 12/5/16	Wed 12/7/16		
3		Clean/Fire parts	6 days	Mon 12/5/16	Mon 12/12/16		
4		Bag parts for the Clean room assembly	6 days	Mon 12/5/16	Mon 12/12/16		
5		Install support stands in 1002	2 days	Mon 12/12/16	Tue 12/13/16		
6		Presurvey support stand location	1 day	Mon 12/12/16	Mon 12/12/16		
7		Stand installation	1 day	Tue 12/13/16	Tue 12/13/16		
8		Test Drive Mobile Cart	1 day	Wed 12/14/16	Wed 12/14/16		
9		Assemble Puck Insertion Section	4 days	Tue 12/13/16	Fri 12/16/16		
10		Assemble Puck Insertion Section in 912 Clean Room	1 day	Tue 12/13/16	Tue 12/13/16	4	
11		Presurvey	1 day	Wed 12/14/16	Wed 12/14/16		
12		Install Insertion Section & Vacuum Equip. in 1002	1 day	Thu 12/15/16	Thu 12/15/16		
13		Survey	1 day	Fri 12/16/16	Fri 12/16/16		
14		Assemble Puck Transfer Section	4 days	Thu 12/15/16	Tue 12/20/16		
15		Assemble Puck Transfer Section in 912 Clean Room	1 day	Thu 12/15/16	Thu 12/15/16	11	
16		Presurvey	1 day	Fri 12/16/16	Fri 12/16/16		
17		Install Puck Transfer Section & Vac. Equip. in 1002	1 day	Mon 12/19/16	Mon 12/19/16		
18		Survey	1 day	Tue 12/20/16	Tue 12/20/16		
19		Vac leak/ Bakeout Insertion & Transfer Section in 1002	6 days	Wed 12/21/16	Wed 12/28/16		
20		Assemble 1st Singe Carrier Suitcase Assembly	9 days	Mon 12/19/16	Thu 12/29/16		
21		Assemble Singe Carrier Suitcase assembly in 912 Clean Room	1 day	Mon 12/19/16	Mon 12/19/16	16	
22		Presurvey	1 day	Tue 12/20/16	Tue 12/20/16		
23		Vacuum leak check/ Bakeout	6 days	Wed 12/21/16	Wed 12/28/16		
24		Deliver to 535	1 day	Thu 12/29/16	Thu 12/29/16		
25		Assemble 2nd Single Carrier Suitcase Asembly	7 days	Wed 12/21/16	Thu 12/29/16		
26		Assemble Singe Carrier Suitcase assembly in 912 Clean Room	1 day	Wed 12/21/16	Wed 12/21/16	22	
27		Presurvey	1 day	Thu 12/22/16	Thu 12/22/16		
28		Vacuum leak check/ Bakeout	4 days	Fri 12/23/16	Wed 12/28/16		
29		Install in 1002	1 day	Thu 12/29/16	Thu 12/29/16		
30		Test puck manipulation and remove the puck in the Gun	1 day	Fri 12/30/16	Fri 12/30/16		
31		Exchange suitcase and Insert new cathode puck to the Gun	3 days	Tue 1/3/17	Thu 1/5/17		
32		Assemble Ferris Wheel Suitcase Assembly	10 days	Wed 12/28/16	Tue 1/10/17		
33		Assemble Ferris Wheel Suitcase Assembly in 912 Clean Room	3 days	Wed 12/28/16	Fri 12/30/16	27	
34		Presurvey	1 day	Tue 1/3/17	Tue 1/3/17		
35		Vacuum leak check/ Bakeout	4 days	Wed 1/4/17	Mon 1/9/17		
36		Deliver to 535	1 day	Tue 1/10/17	Tue 1/10/17		
37		Polish cathode pucks	49 days	Tue 12/6/16	Fri 2/10/17		
38		Vacuum clean fire pucks	5 days	Tue 12/6/16	Mon 12/12/16		
39		Polish 30 cathode pucks	44 days	Tue 12/13/16	Fri 2/10/17		
40		Polish the balance (6 more pucks)	20 days	Mon 1/16/17	Fri 2/10/17		

