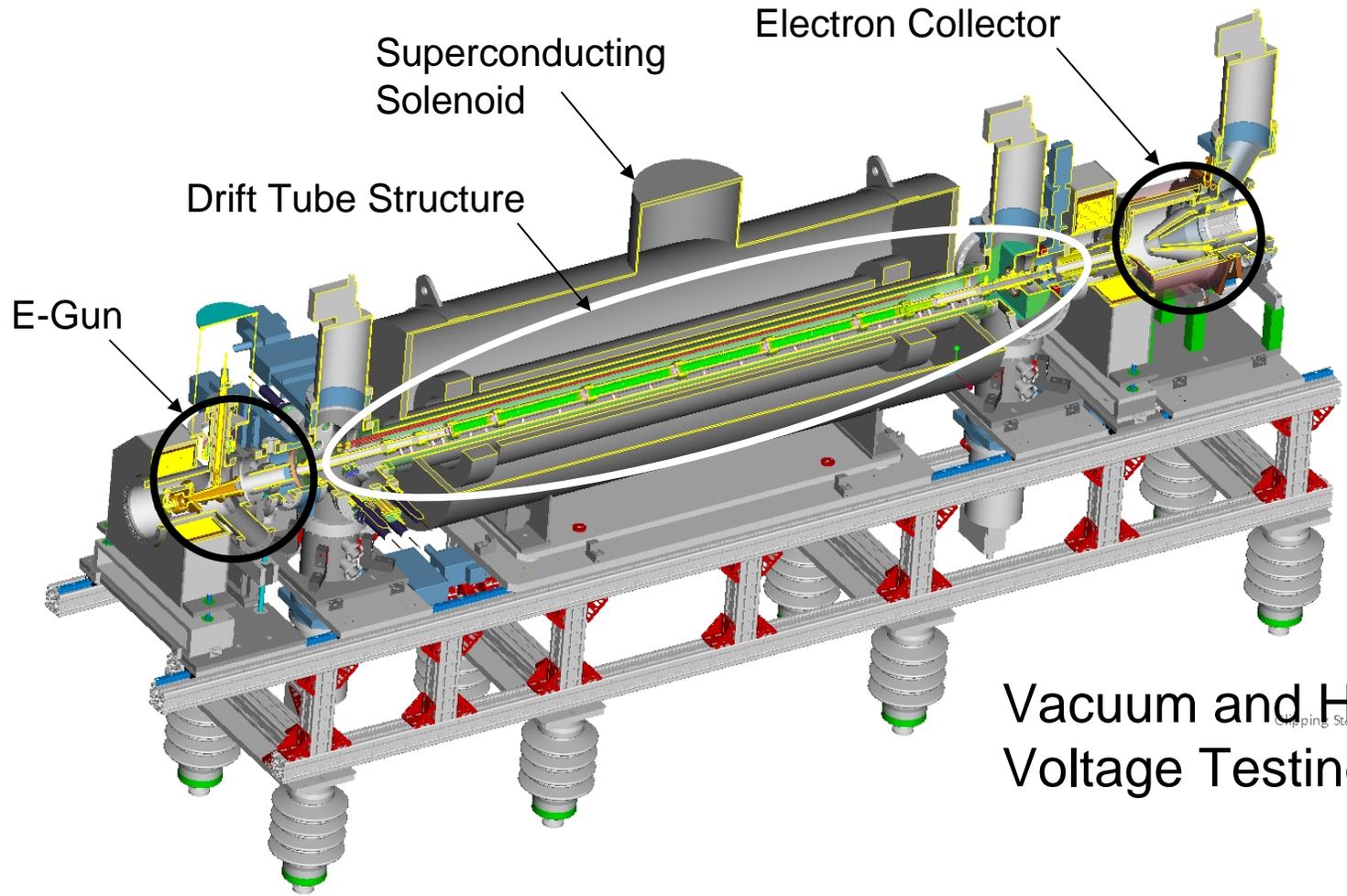


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1.10 Installation – EBIS Pre-Assembly

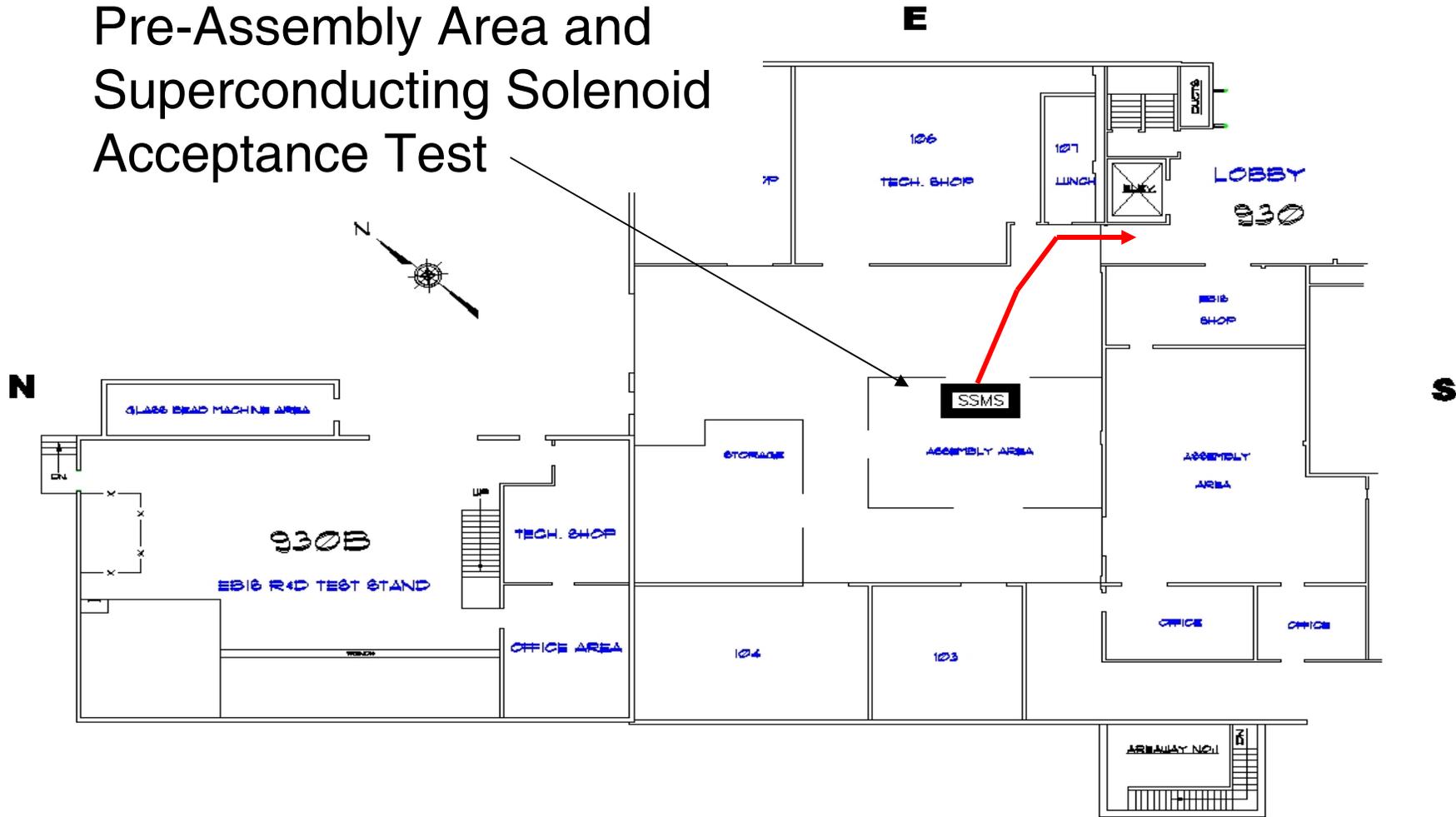


Vacuum and High Voltage Testing

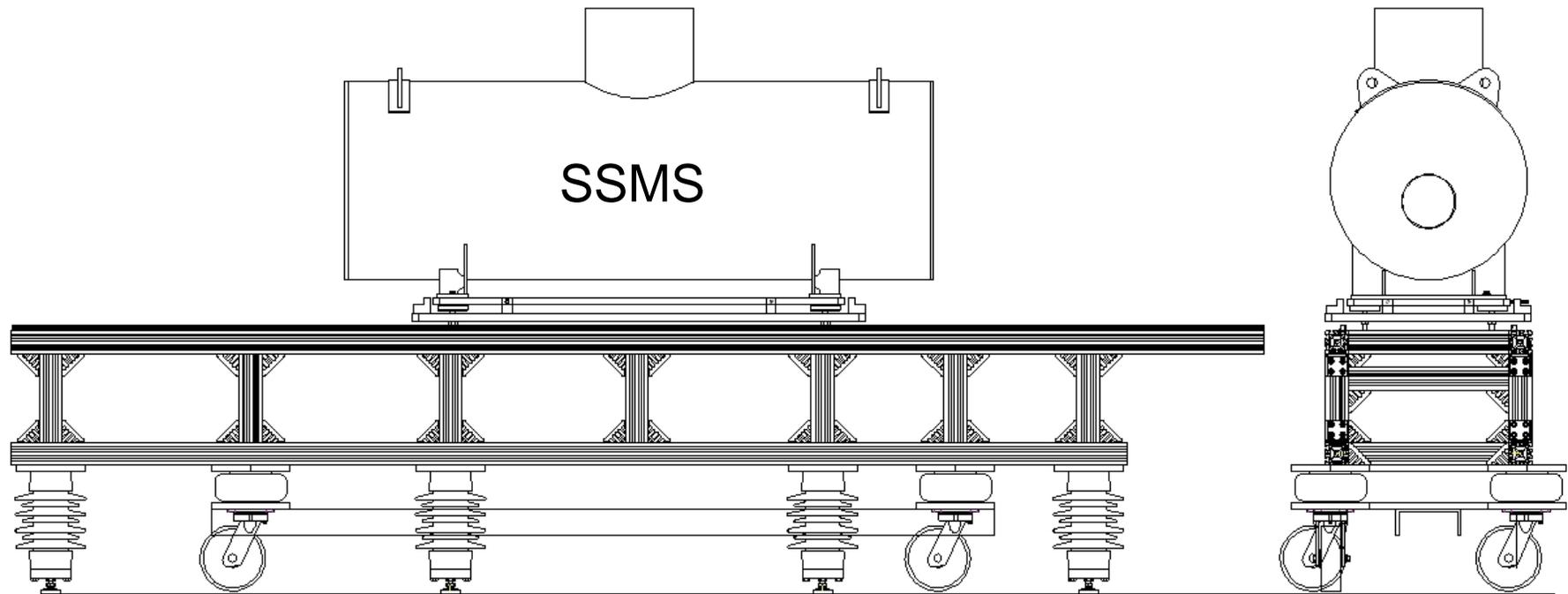


1.10 Installation – Pre-Assembly Area

Pre-Assembly Area and Superconducting Solenoid Acceptance Test



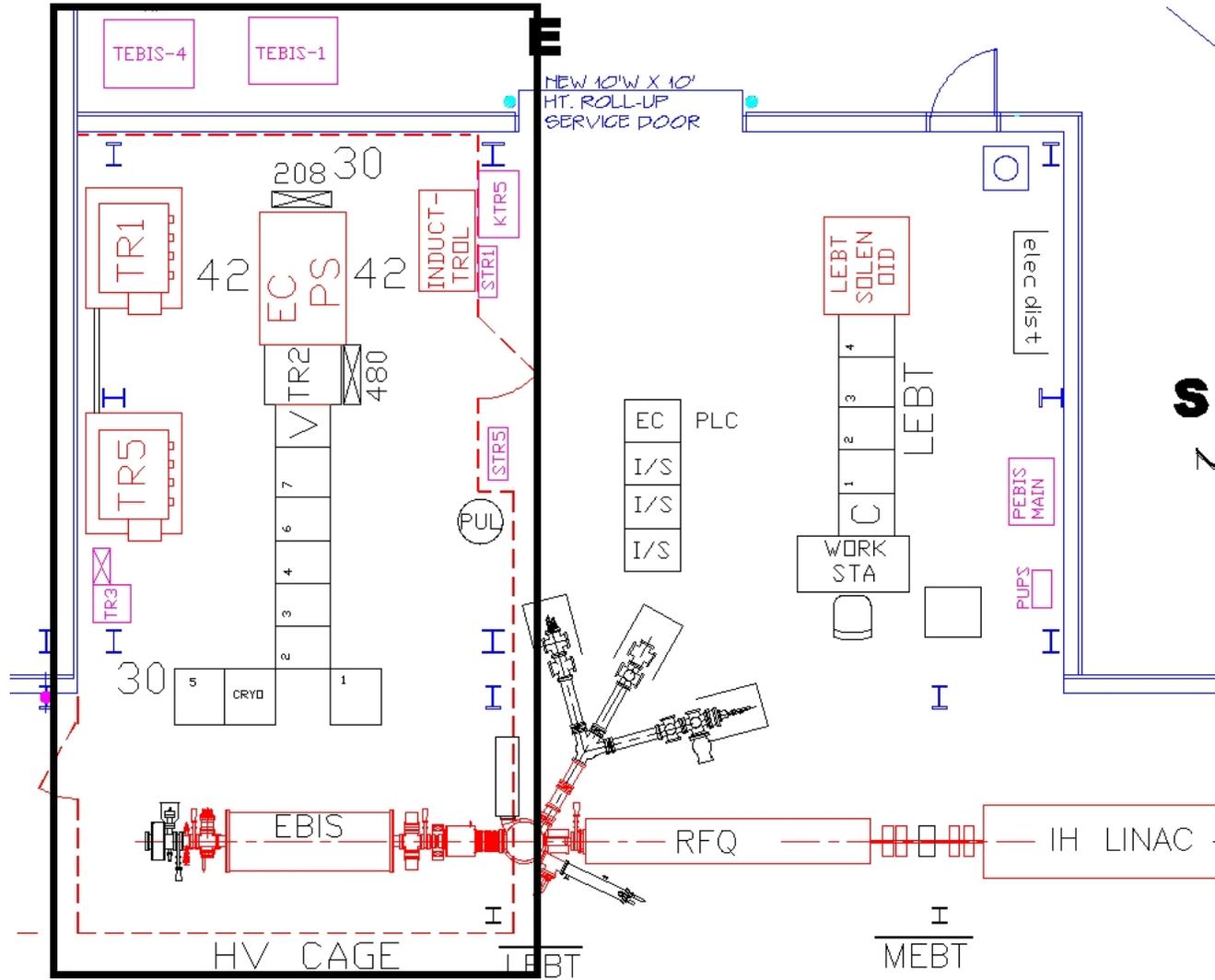
1.10 Installation – SSMS Stand/Transport



1.10 Installation – SSMS Stand/Transport



1.10 Installation – EBIS/Support Systems



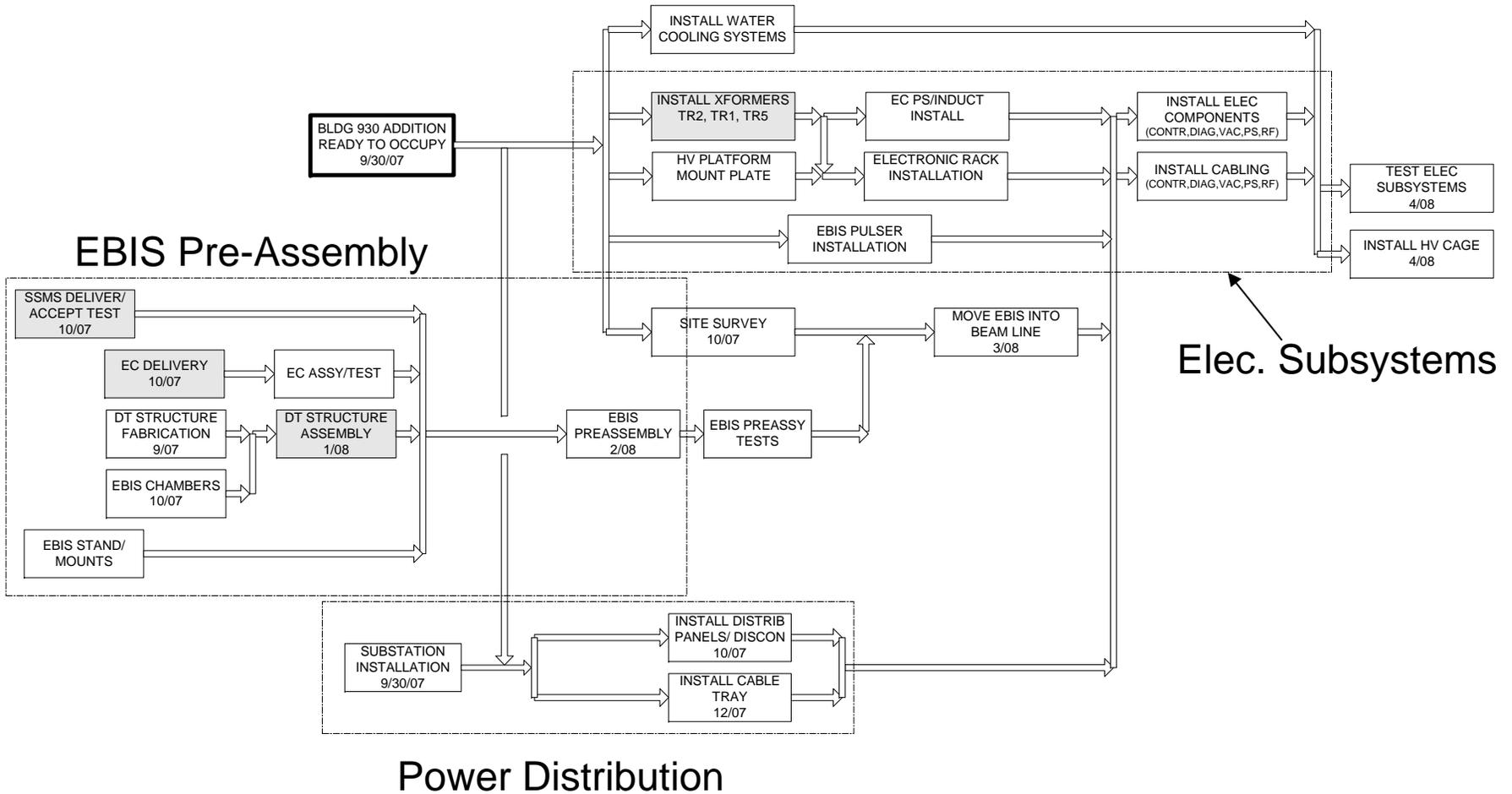
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1.10 Installation – EBIS Install Flowchart



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1.2 Controls

- Procurements < \$25k
 - COTS items -- received
 - 5 small orders of custom-built electronics -- received

- Procurements > \$25k

	<u>Scheduled Delivery</u>
– VME chassis (6)	imminent
– Dual channel PSIs (39)	end-Sept
– Quad waveform generators (19)	mid-Dec
– Single channel PSIs (66)	mid-Dec

- EBIS cable and console computer orders deferred to FY08

- Accelerator & Beam Line controls planned for FY08

1.2 Controls

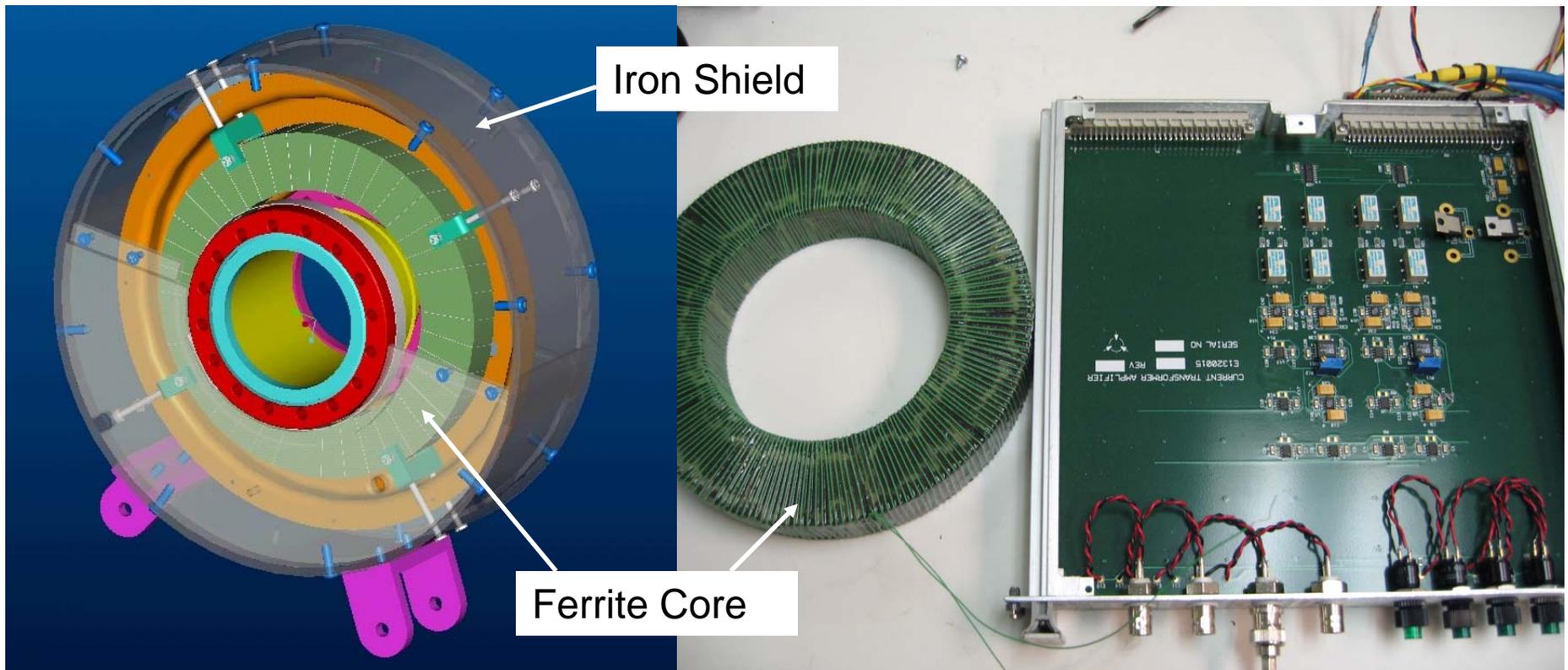


	<u>PO</u>	<u>Value-unburden</u>
• EBIS Controls (>\$25k)		
– VME chassis	Placed	\$ 36k
– PSI's - Power supply interfaces	Placed	\$116k
– Quad waveform generators	Placed	<u>\$ 39k</u>
		\$191k
• Total Spent/Committed to date:		\$285k
• Total Expected Material Costs including Accelerator & Beam Line controls:		\$426k
• Percentage Spent/Committed:		67%



1.3 Diagnostics

- Current Transformer Prototype in progress
 - Central Shops working on mechanical enclosure parts
- < 10% of construction budget spent (FY'08 procurements)



1.7 Vacuum Systems



	<u>Qty</u>	<u>PO</u>	<u>Value</u>
• Pumps:			
– Turbo Pumps	7 (all)	Placed	\$73K
– Cryo Pumps	5	Placed	\$82K
• Vacuum Valves	EBIS	Placed	\$51.4K
• Instrumentation/Controls			
– PLC		Placed	\$12.6K
– Gauge/Contr		Placed	\$28.5K
• Beam Port Beam Tube		Complete	\$24.5K
• Total Spent/Committed			\$272K*
• Total Expected Material Cost			\$789K
• Percentage Spent/Committed			34%

* \$83K lower procurement costs than estimated



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1.8 Cooling Systems

Preparation of Cooling Systems at Facility Site

- Removed Legacy Piping
- Extended Existing NSRL Power Supply DI Water
- Tapped into Existing Chill Water System
- Tapped into Existing Compressed Air

- Total Spent \$17.8K
- Total Expected Material/Labor Cost \$143K
- Percentage Spent 12%

1.9 Facility



	<u>Schedule</u>
• Beam Port Installation	Completed
• Building 930 Addition	
– Ready to Occupy	9/30/2007
• Electrical Distribution	
– Substation Installation	8/6-9/28/2007
– Distribution Panels/Disconnects	8/31-10/15/2007
– Cable Tray, Main Runs	10/15-12/31/2007
• Total Spent	\$105K
• Total Expected Material/Labor Cost	\$290K
• Percentage Spent	36%



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Summary



- For WBS 1.10 we are striving for the installation of the EBIS in the facility site by April-May 2008, ahead of the baseline schedule of September 2008 for all installed components (operating EBIS by December 2008). This goal depends on the delivery of certain primary components.
- Progress in WBS's 1.2, 1.3, 1.7, and 1.8 is according to the scheduled plan.
- For WBS 1.9 the building infrastructure will be ready for an early EBIS installation.



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