



THE AEROSPACE
CORPORATION



UT



CRaTER Pre-Environmental Review (I-PER)

Programmatics

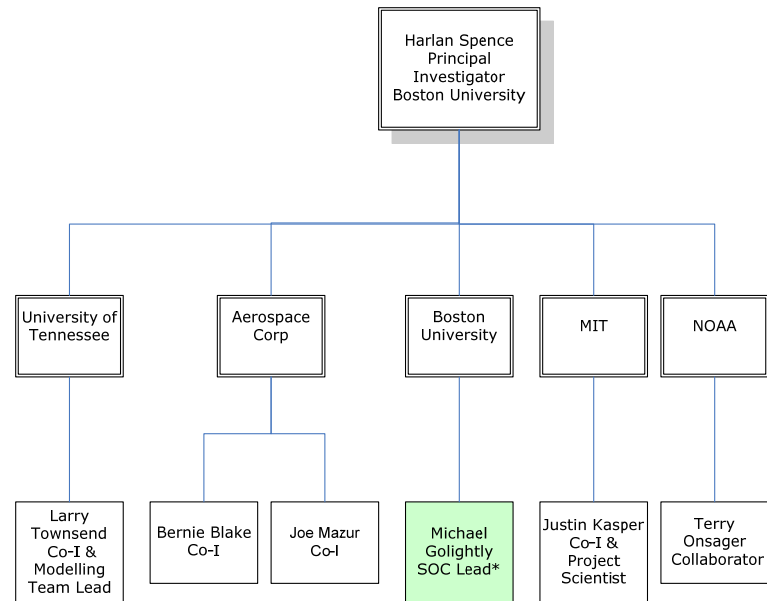
Rick Foster

September 10-11, 2007

*Cosmic **RA**y Telescope for the **E**ffects of **R**adiation*

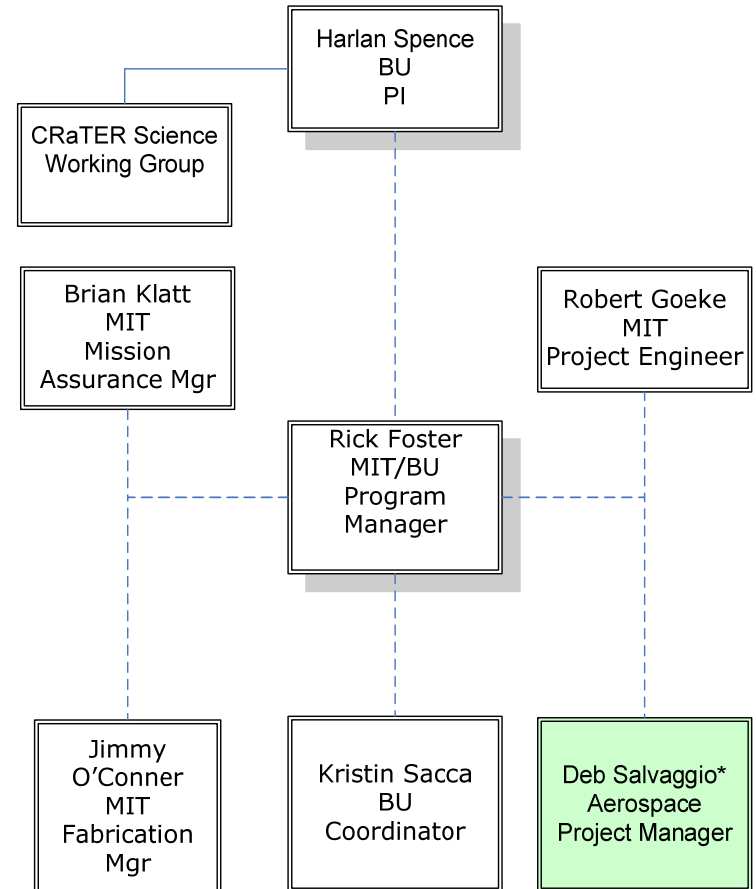
Science Team Organization changes since CDR

- Larry Kepko, SOC Lead at BU, accepted a position at UNH and withdrew from the CRaTER Team.
 - Dr. Peter Ford at MIT took over as interim SOC Lead.
- Mike Golightly left AFRL and accepted a position at BU
 - Will be working primarily on CRaTER
 - Will be taking over as SOC lead from Peter Ford after the delivery of the flight instrument to NASA-GSFC in December 07.
- No other changes to the CRaTER Science Team changes anticipated.



Organizational Changes since CDR - Management

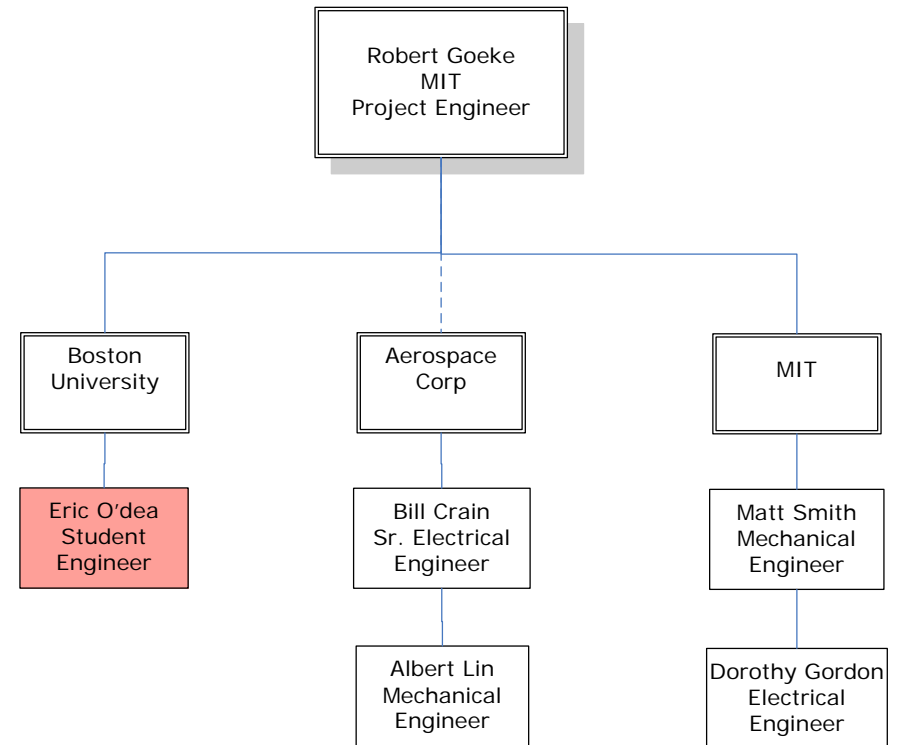
- No changes since CDR
- Substantial changes planned for post instrument delivery
 - Management and operations will become less MIT centric and more BU centric
 - A new part time program manager will reside at BU
 - Project engineering at MIT will be reduced to ¼ time.
 - Fabrication and Mission Assurance will be phased down fairly rapidly.
 - Aerospace contributions will primarily be on the science side.





Organizational Changes since CDR - Engineering

- Chris Sweeney (I&T Lead) left B.U.
 - Responsibilities taken over by Robert Goeke
- Huade Tan, BU Student Engineer building thermal model, graduated and was replaced by another student engineer/astronomer in the summer of '07
- Mike Doucette, MIT GSE Engineer, retired and was not replaced. Duties distributed to the members of the MIT CRaTER team.
- Post Delivery of Instrument to NASA-GSFC will have ¼ time of Robert Goeke advising the B.U. CRaTER Team, during spacecraft I&T and on orbit operations
 - Rest of engineering team will be reassigned.



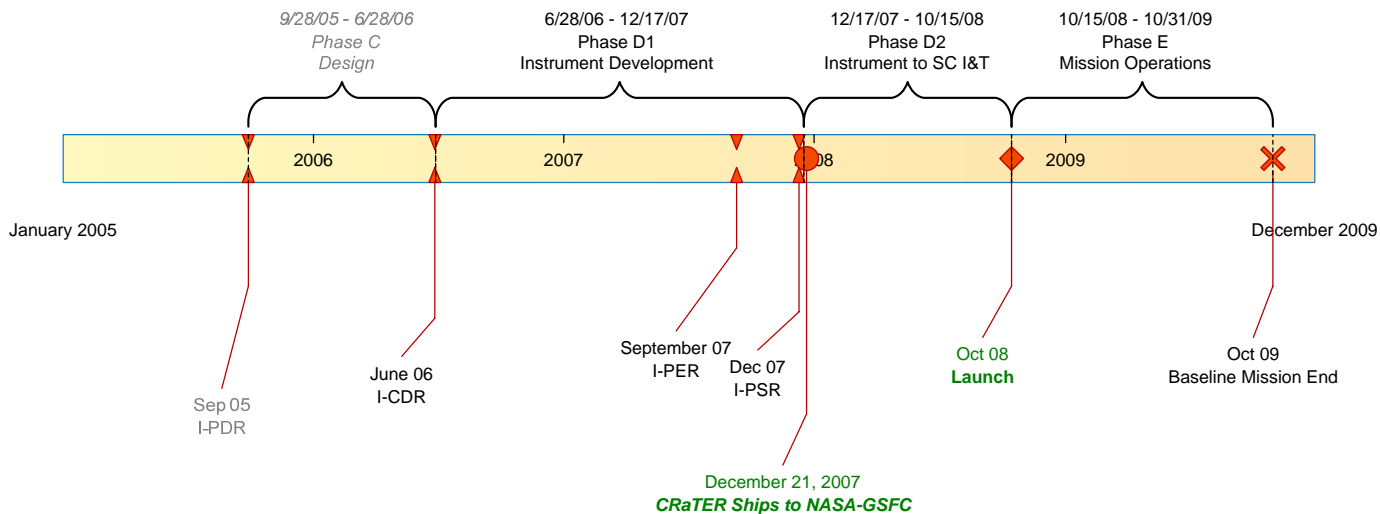


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CRaTER Master Phase Schedule

CRaTER Master Milestone Rev09.vsd



At CDR, ship date to NASA was October 15th, 2007. 2 month slip was primarily detector related and will be discussed in the risks section.

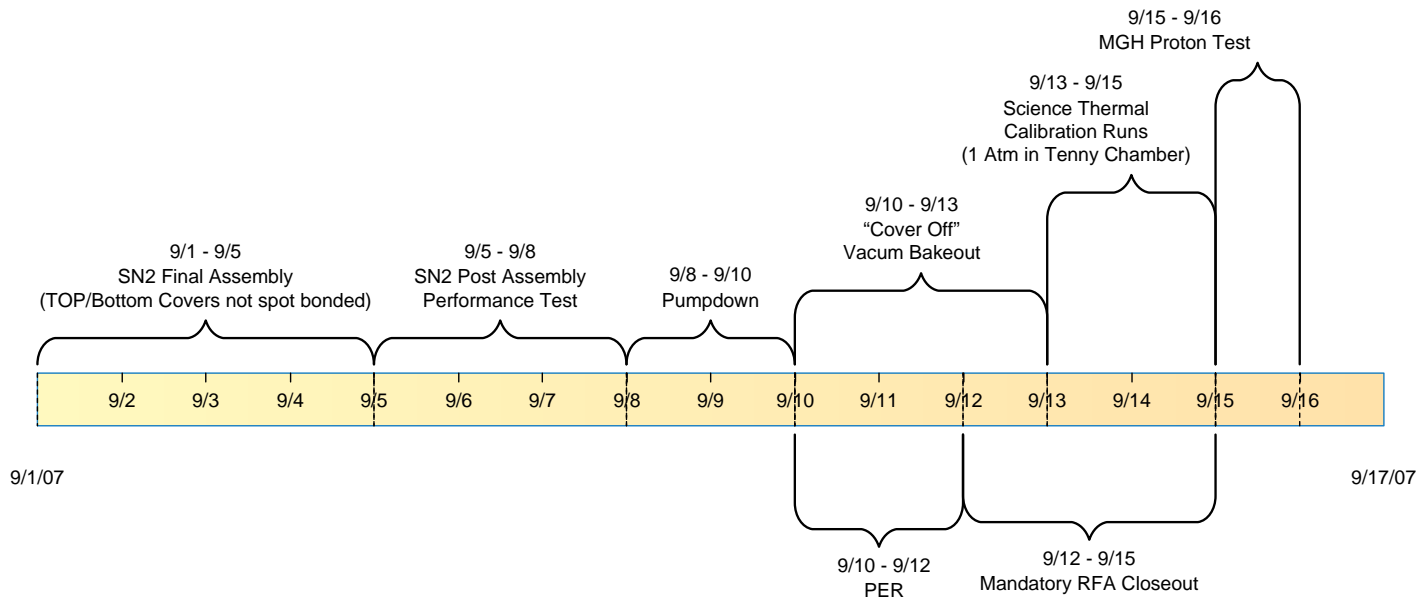


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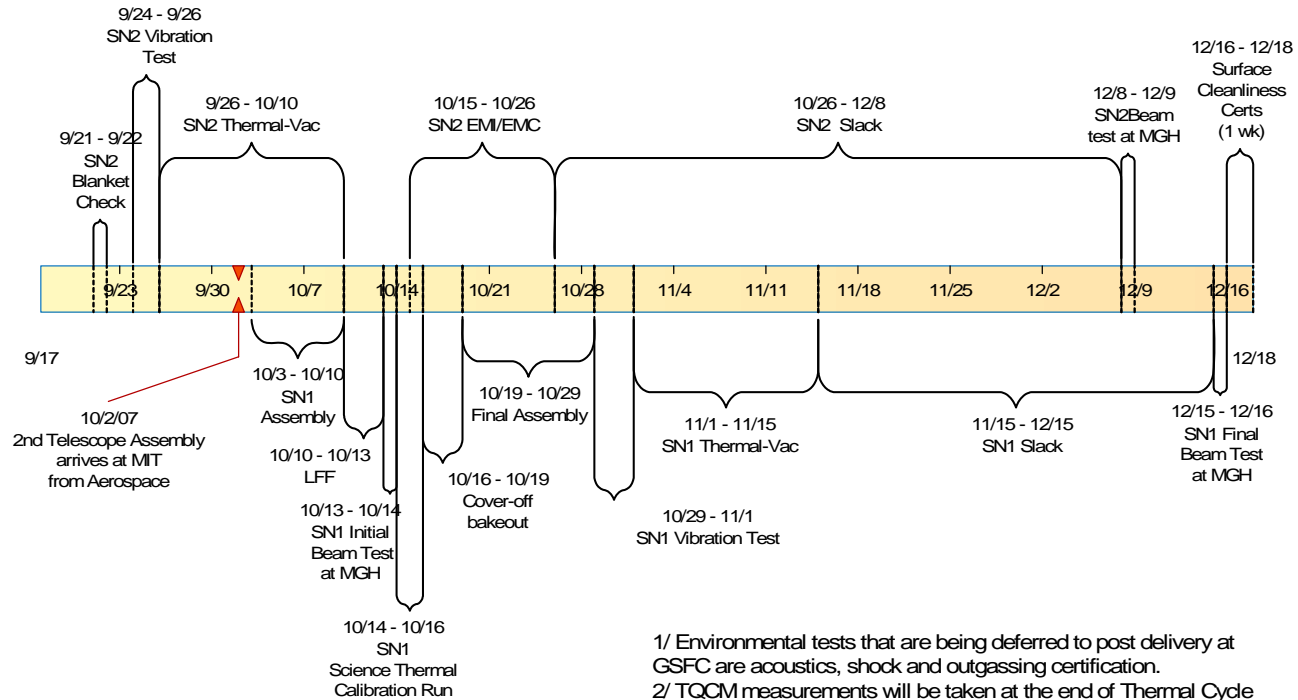
Final Flight Model (SN2) Integration by MIT

CRaTER Flight Model Rev03_4b.vsd



CRaTER SN2 Environmental Test and SN1 Assembly/Test

CRaTER Flight Model Rev03_4b.vsd



- 1/ Environmental tests that are being deferred to post delivery at GSFC are acoustics, shock and outgassing certification.
- 2/ TQCM measurements will be taken at the end of Thermal Cycle Testing.
- 3/ No EM/EMC test on SN1
- 4/ Thermal Balance on SN1