



Pluto-Kuiper Belt Mission Phase A Concept Study Phase

Welcome and Congratulations!

Dr. Colleen Hartman
Outer Planets Program Director
June 18, 2001



Phase A Overview and Caveat



- Per the AO as amended, selected teams will conduct three-month concept studies, funded up to \$450K (real year dollars). At the end of the concept studies, NASA will conduct detailed reviews to evaluate the in-depth implementation of the selected investigations. As a result of this evaluation, one mission investigation **may** be selected for implementation leading to flight, given caveat.
- Caveat: The President's FY 2002 budget request does not contain funding for the PKB mission. One mission investigation **may** be selected if and only if funding is forthcoming to NASA.



Program Management and Constraints



- Purpose of this meeting:
 - To provide final instructions, including clarifications for the conduct of the 3-month Phase A Concept Study.
- Phase A Study deliverables:
 - Concept Study Report** providing sufficient implementation detail and planning to allow NASA to judge probability of mission success.
 - Priced Proposal** adequate to allow immediate contract negotiation and implementation.



PKB Mission Procurement



- Proposals must be for the complete mission cycle (Phase A-Phase E).
- NASA cost cap is \$500M (FY 2001 dollars) **or** a growth of 20% from the proposal.
- **Two-Phase, One-Step Procurement**
 - **Phase I: Selection**
 - Solicit science proposals with sufficient implementation information to evaluate risk, expected total cost to NASA, and commitment to other programmatic goals. NASA may select up to 2 proposals and award contracts for concept studies, with contract options for Phase B, Phase C/D, and Phase E.



PKB Mission Procurement (concluded)



– Phase II: Concept Study

- Three month Phase A Concept Study funded up to \$450K (real year dollars).
- Detailed NASA reviews to evaluate the implementing details of the selected investigations, including any modifications of the scientific objectives, the implementation including all technical and management factors, details of the E/PO programs, and plans for SDB and New Technology.
- **If funding is available, one mission investigation may be selected for implementation leading to flight.**



Program Management and Constraints



- The AO is still valid during the Phase II Concept Study. Additionally, the *Guidelines and Criteria for the Phase A Concept Study* apply during the Concept Study.
- Concept Study cost must be included in total mission cost cap; Concept Study is to be considered Phase A.
- Proposed costs for Participating Scientists and/or Data Analysis Programs will be counted against the total mission cost cap.
- Options for extended missions (Phase F) will not be counted against the total mission cost cap.
- New, more stringent ITAR requirements specified for non-US participants.



Program Management and Constraints (concluded)



- Projects should be aware that no cost growth is allowed after Downselection. Projects that experience cost growth are subject to cancellation.
- Although the AO cost cap is fixed, up to \$6M in costs may be identified for responding to NASA Integrated Action Team (NIAT) recommendations and **not** counted against the cost cap.
- Following Downselection, NASA will require a Confirmation Review at the conclusion of Phase B, and continued progress toward launch within defined launch window(s) and within cost during Phase C/D.



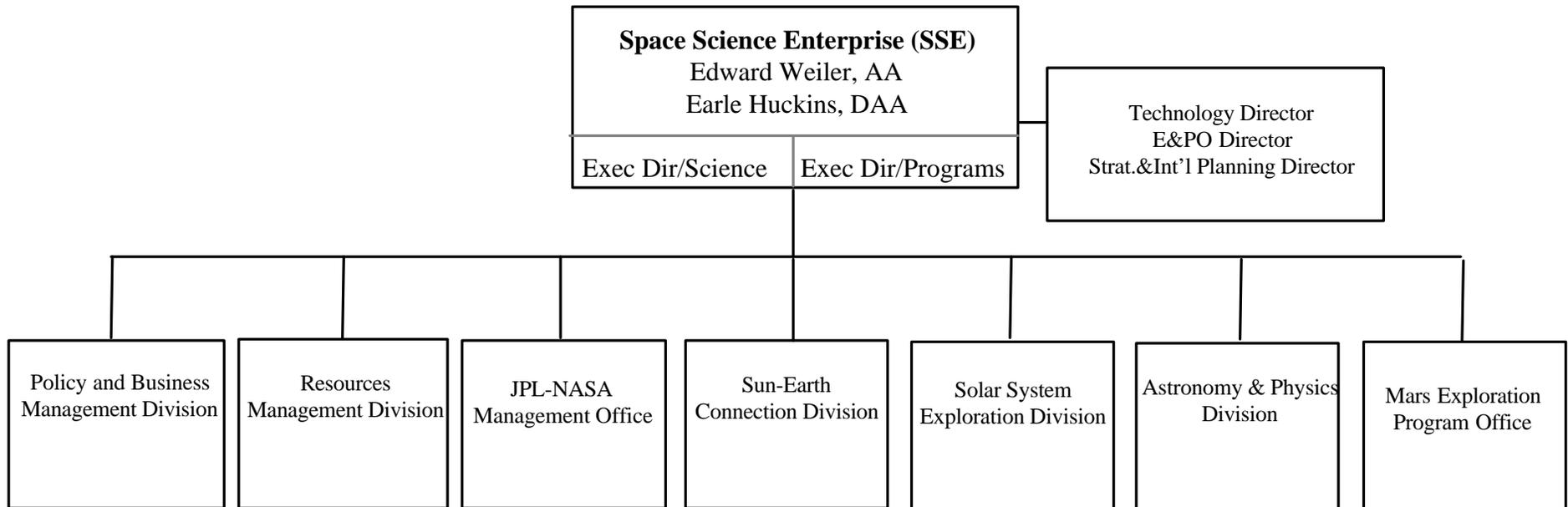
Pluto Funding Constraints



- The President's FY 2002 budget request does not contain development funding for a PKB mission.
 - **If funding is provided in the FY 2002 budget and a viable PKB mission is determined to exist, NASA may downselect a PKB mission for implementation.**
 - NASA may determine, through competitive peer and technical reviews of the Concept Study Reports, that no PKB mission proposed in response to this AO is viable for implementation.



OSS Organization (Proposed)



† Pluto Program Executive: Kurt Lindstrom

† Pluto Program Scientist: Denis Bogan