U.S. ATLAS

US ATLAS Research Operations Management Plan

DOE/NSF Review

April 11 2002, FNAL

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ANL

•No upgrades

TABLE OF CONTENTS

TABLE OF CONTENTS

LIST OF ABBREVIATIONS .....

1 INTRODUCTION .....

1.1 The U.S. ATLAS Research Operations Program and the Transition from the U.S. ATLAS Construction Project .....

1.1.1 Overview of the Research Operations Management Plan .....

1.1.2 Transition from the U.S. ATLAS Detector Project to the U.S. ATLAS Research Operations Program .....

1.2 Detector Description .....

2 ATLAS OBJECTIVES .....

2.1 Scientific Objectives .....

2.2 Technical Objectives .....

2.3 Cost and Schedule Objectives .....

3 ATLAS ORGANIZATION .....

3.1 The International ATLAS Experiment and its Management .....

3.2 Membership of the U.S. ATLAS Collaboration .....

TOC (continued)

3.3 The U.S. ATLAS Research Operations Management Organization .....
3.3.1 U.S. ATLAS Research Operations Manager .....
3.3.2 Institutional Board.....
3.3.3 Executive Committee .....
3.3.4 Education/Outreach Coordinator.....
3.3.5 Subsystem Managers.....
3.3.6 Physics/Computing Manager .....
3.3.7 Subsystem Operations Managers .....
3.3.8 Subsystem Upgrade Managers .....
3.3.9 Physics Manager .....
3.3.10 Software Manager .....
3.3.11 Facilities Manager.....
3.3.12 Brookhaven National Laboratory (BNL) and Columbia University.....
3.3.13 Research Operations Advisory Panel .....
3.4 Department Of Energy (DOE) and National Science Foundation (NSF).....
3.5 Research Operations Responsibilities .....

4 WORK BREAKDOWN STRUCTURE (WBS) .....

5 RESEARCH OPERATIONS SCHEDULES AND MILESTONES.....

5.1 Detailed Schedules.....
5.2 Intermediate Schedules .....
5.3 Summary Schedule.....

6 COST ESTIMATES .....

6.1 Cost Objectives .....

TOC (continued)

7 MANAGEMENT SYSTEM .....

7.1 Baseline Development .....
7.2 Performance.....
7.2.1 Reporting .....
7.2.2 Procurements.....
7.3 Change Management .....
7.4 Meetings with DOE and NSF.....
7.5 Periodic Reviews.....

8 SUPPORTING FUNCTIONS .....

8.1 Quality Assurance .....
8.2 Environment, Safety & Health .....
8.3 Property Management .....

9 ORGANIZATION OF THE U.S. ATLAS RESEARCH OPERATIONS OFFICE (ROO) .....

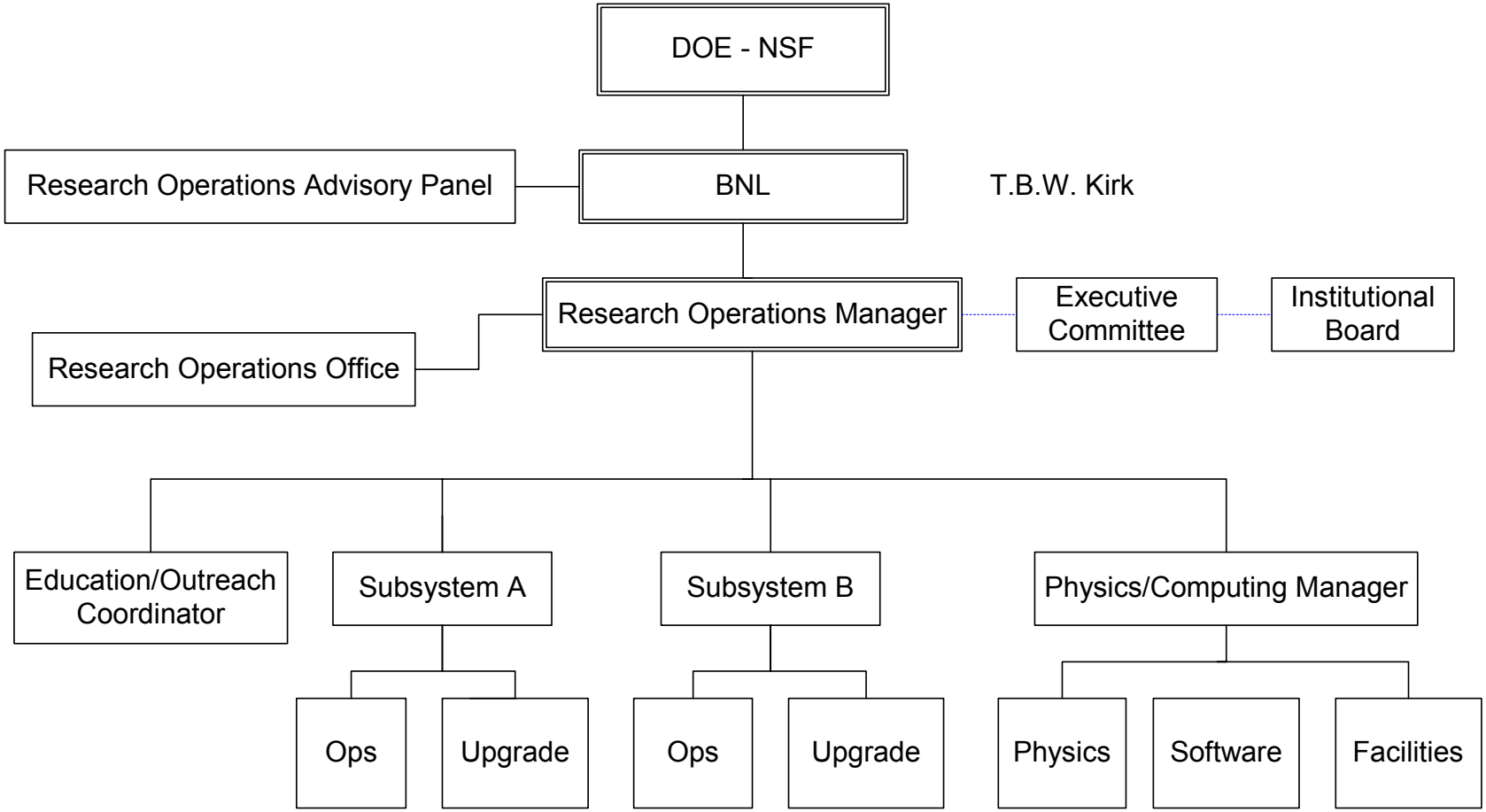
10 REVIEW AND MODIFICATION OF THIS RESEARCH OPERATIONS MANAGEMENT PLAN 28

LIST OF TABLES

Table 7-1: U.S. ATLAS Change Control Process
Table 7-2: U.S. ATLAS Change Control Thresholds
Table 7-3: Periodic Reports to DOE and NSF

U.S. ATLAS Research Operation Management

U.S. ATLAS RESEARCH MANAGEMENT ORGANIZATION



Transition

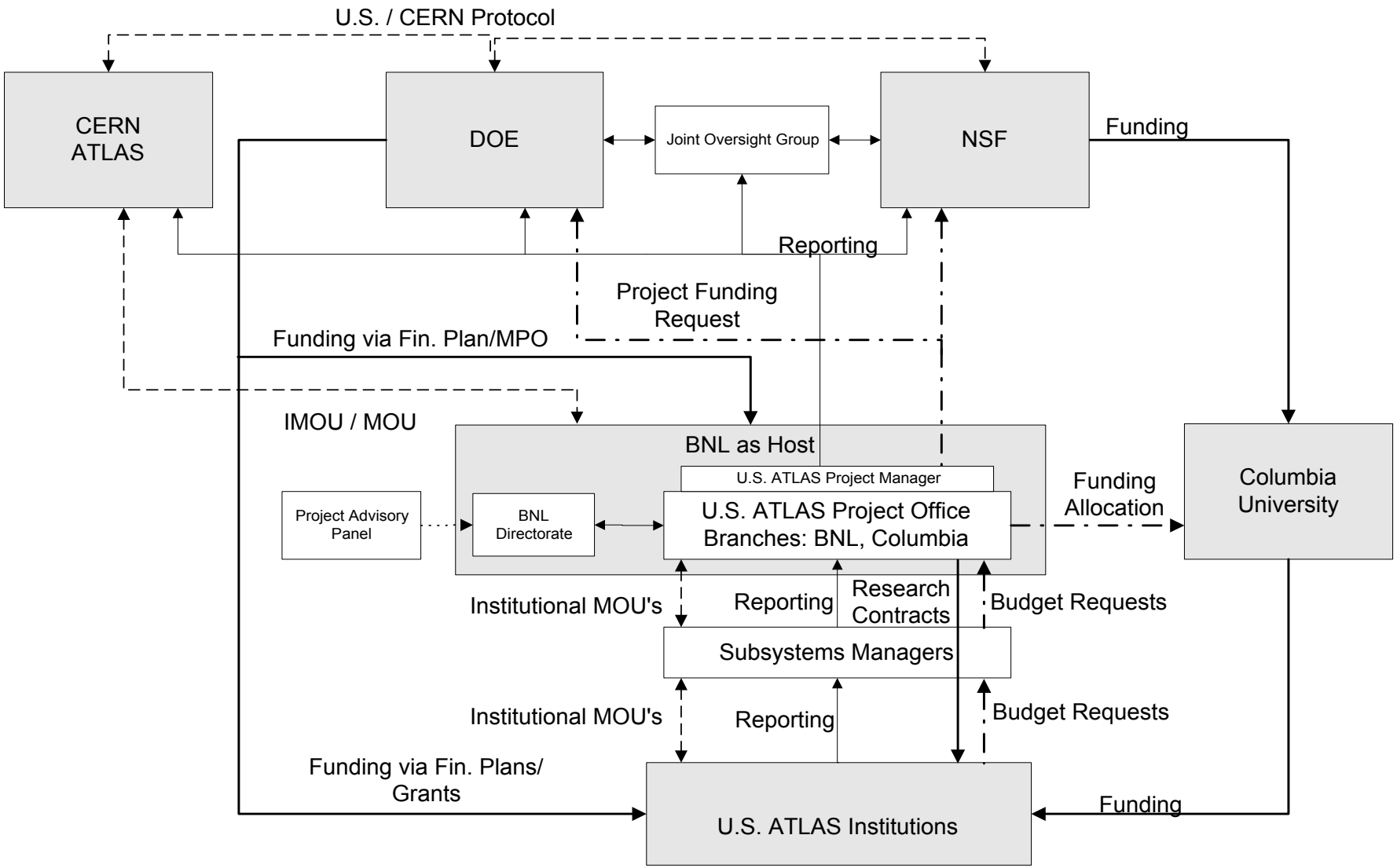
- Current Management Plans
  - Revised U.S. ATLAS Construction Project Management Plan (U.S. ATLAS 99-20)
  - Draft U.S. ATLAS Physics and Computing Project (➡Program) Management Plan (U.S. ATLAS 00-01).
- Research Operations Mangement Plan takes effect as soon as resources are provided
  - U.S. ATLAS Project Manager will add responsibility for Operations and Upgrade R&D until the Construction Project is completed
  - SOMs and SUMs appointed when needed
- New organization fully implemented when Construction Project is completed.
- (See further discussion of Physics/ Computing later)

Current Institutional Responsibilities

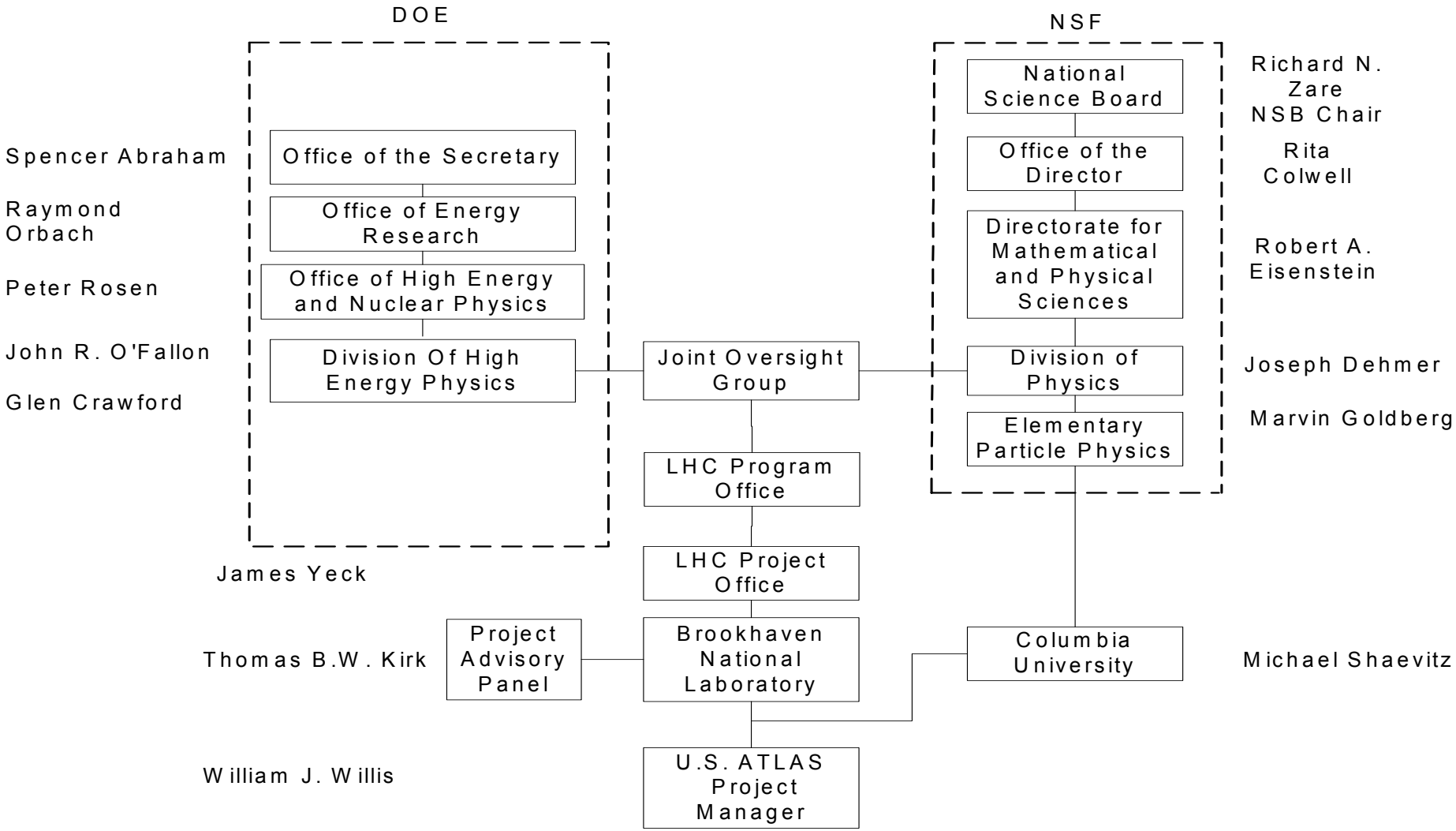
Subsystem	Institutions
Silicon	UC-Berkeley/LBNL, UC-Irvine, UC-Santa Cruz, Iowa State New Mexico, Ohio State, Oklahoma, SUNY-Albany, Wisconsin
TRT	Duke, Hampton, Indiana, Michigan, Pennsylvania
Liquid Argon Calorimeter	Arizona, BNL, Columbia, Pittsburgh, Rochester, Southern Methodist U., SUNY-Stony Brook
Tile Calorimeter	ANL, Chicago, Illinois-Champaign/Urbana, Michigan State, UT-Arlington
Muon Spectrometer	Boston, BNL, Brandeis, Harvard, MIT, Michigan Northern Illinois, SUNY-Stony Brook, Tufts, UC-Irvine, Washington
Trigger and DAQ	ANL, UC-Irvine, Michigan State, Wisconsin

U.S. ATLAS

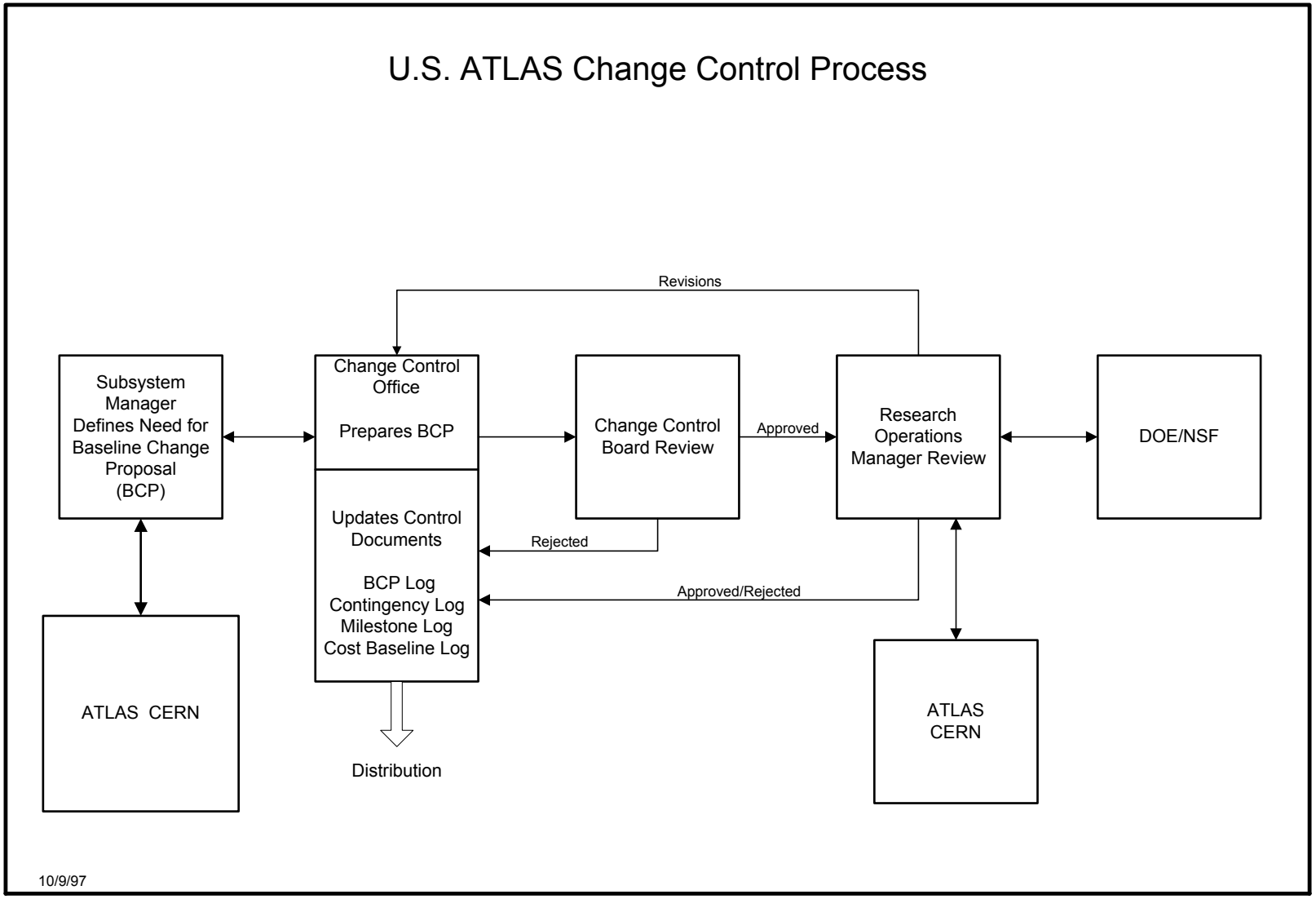
MOU, Funding and Reporting Process



DOE-NSF-U.S. ATLAS Organization



U.S. ATLAS Change Control Process



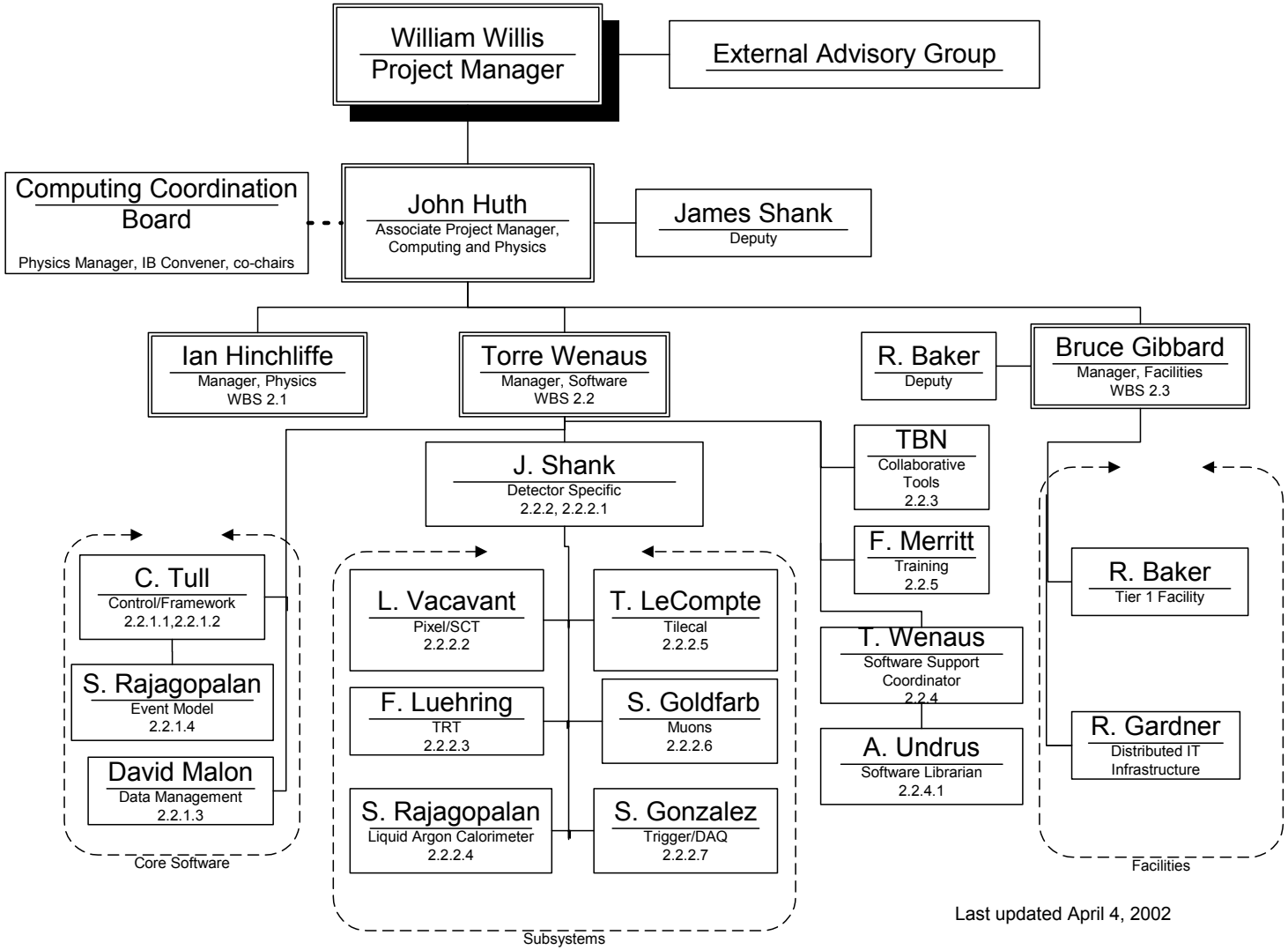
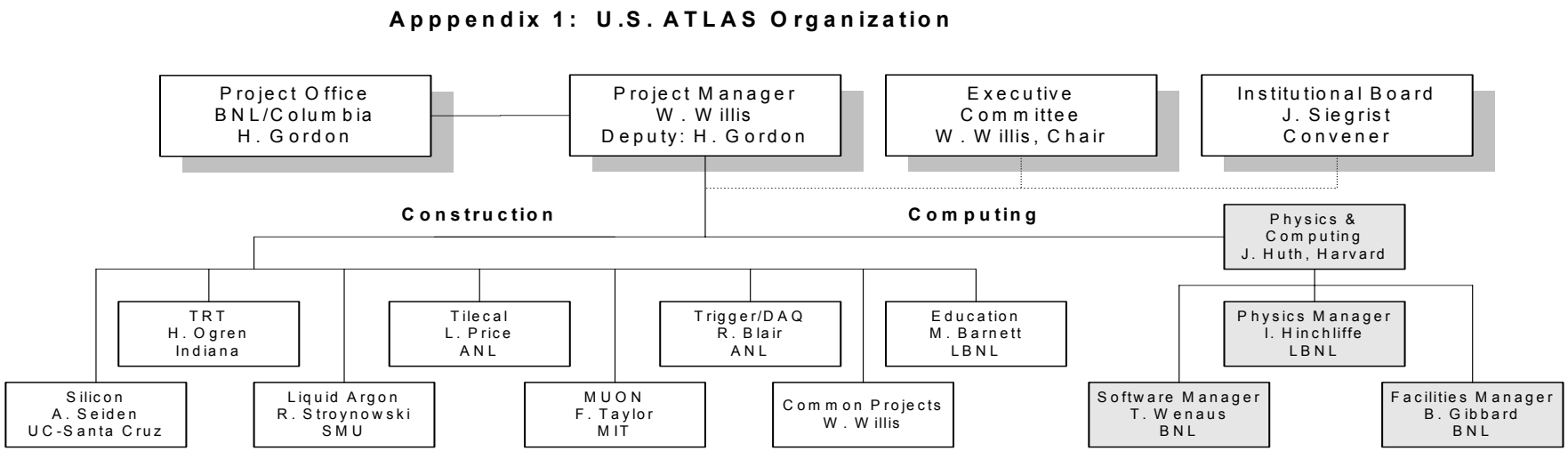
U.S. ATLAS Change Control Thresholds

	Level 1 U.S. LHC Joint Oversight Group	Level 2 U.S. LHC Program Manager	Level 3 U.S. ATLAS Research Operations Manager and BNL Associate Laboratory Director
Technical	Changes to the project purpose or goals. [Ref. U.S./CERN Agreement and Experiments Protocol]	Approve the initial baseline scope. Approve the annual scope of work and significant changes.	Changes that do not affect the Level 1 and Level 2 control items.
Cost	Changes to the Total Program Cost.]	Approve the initial baseline cost. Approve the annual budget including management reserve and any changes to the total annual budget. Approve the cost baseline for upgrades and any changes to total cost baseline for an upgrade.	Changes to the cost baseline at WBS Level 3.
Schedule	Greater than 6-month change in a Level 1 milestone Milestones (Level 1)	Approve the schedule baseline and changes to Level 2 milestones.	Any change in a Level 3 milestone.

Computing Transition

- Current Research Operations Management Plan describes merging of Physics/Computing at about the time of first LHC collisions
- Should this transition occur earlier?
  - Yes: Better match to Agencies' organization of funding
  - No: Deliverables have a common time frame with construction Project and the current connection of management reflects that focus on LHC turnon

Present Management Structure of the US ATLAS Physics and Computing Project



Physics and Computing in Present US ATLAS Organization