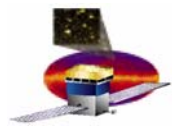


# GLAST Large Area Telescope:

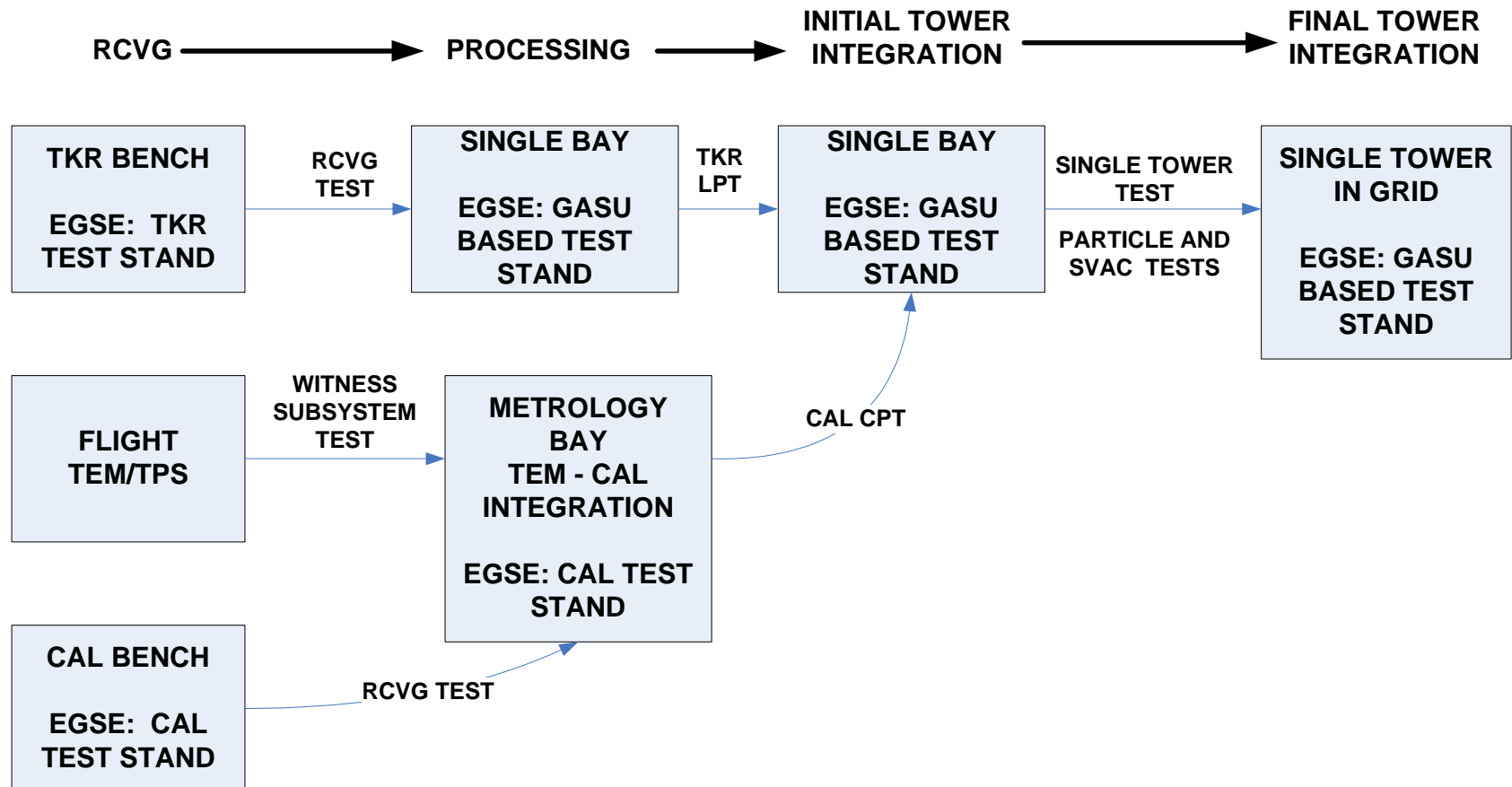
## Integration and Test One and Two Tower Integration Readiness Review

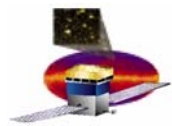
### Introduction

**Elliott Bloom**  
**I&T Manager**

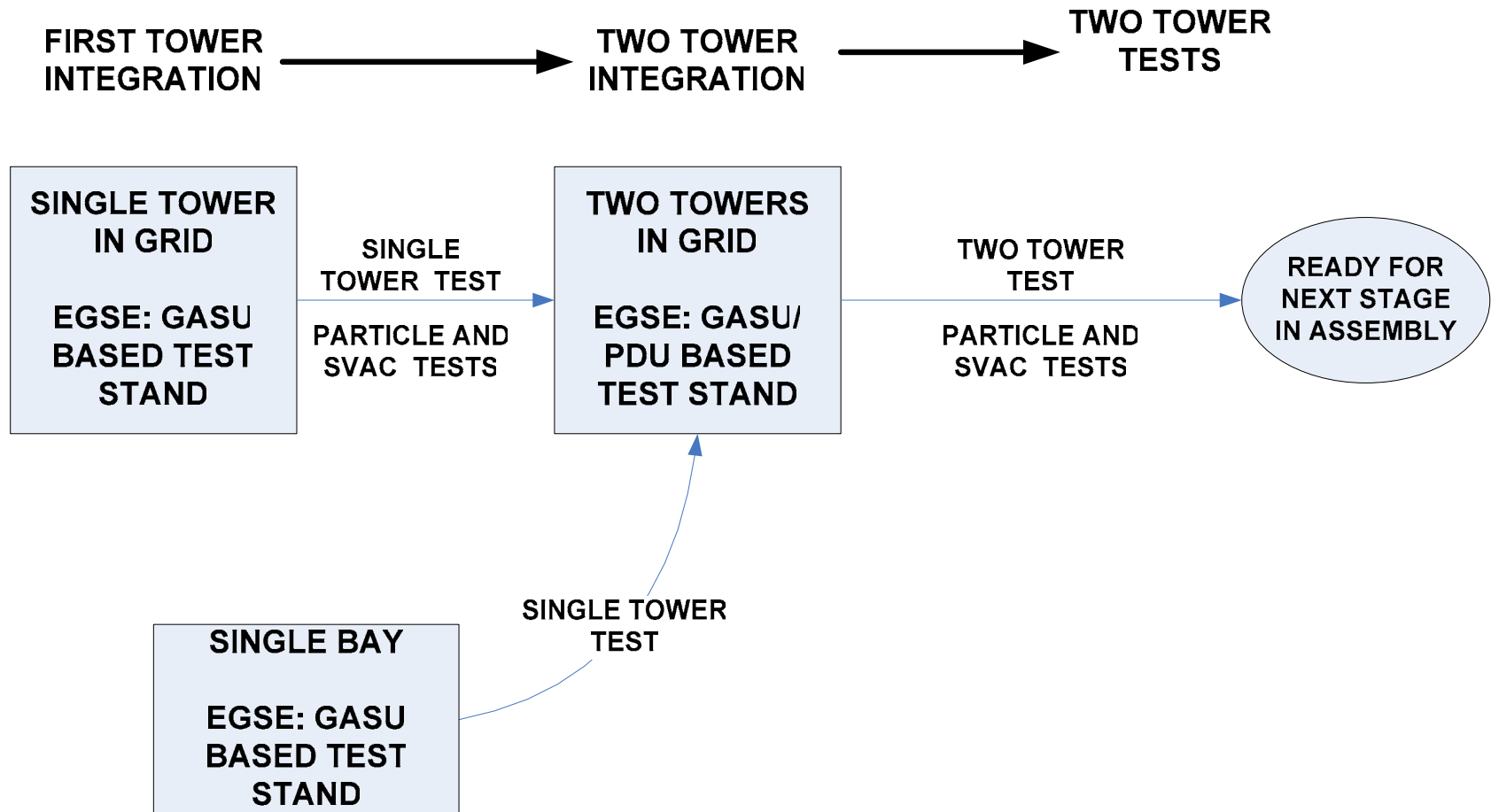


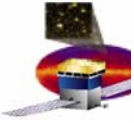
# Single Tower Assembly and Test FLOW





# Second Tower Assembly and Test Flow





**Integration and Test**  
 Elliott Bloom, Manager (SU-SLAC)  
 Ken Fouts, I&T Engineering Manager (SU-SLAC)  
 Brian Grist, I&T Engineer (SU-SLAC)  
 WBS 4.1.9, 4.1.9.1

**Subsystem I&T Support**

- ACD - Dave Thompson
- CAL - Eric Grove
- DAQ - Mike Huffer
- Elec - Dave Nelson
- FSW - Mike DeKlotz
- Mechanical - Marc Campell
- SAS - Richard Dubois
- TKR - Hiro Tajima
- Controls - Shannon Leone
- QA - Doug Bartholomew

**Integration, Facilities, Configuration, and Test**  
 Larry Wai, Manager (SU-SLAC)  
 Thomas Borden, IFCT Engineer (SU-SLAC)  
 WBS 4.1.9.6

**Brian Horwitz**  
 Electrical Engineer

**Eliazar Ortiz**  
 Mechanical Engineer

- John Canfield, S&E Associate - Electrical
- Toan Le, S&E Technician - Electrical
- Phuc Hoang, S&E Technician - Electrical

- Mark Molini, S&E Associate - Mechanical
- Leo Manger, S&E Associate - Mechanical
- Dave Kiehl, S&E Technician - Mechanical
- Tom Neiland, S&E Technician - Mechanical

Reggie Rogers, S&E Associate

**Mechanical Ground Support Equipment**  
 Eric Gawehn, Manager (SU-SLAC)  
 WBS 4.1.9.4

**Online Software**  
 Ric Claus, Manager (SU-SLAC)  
 WBS 4.1.9.5

**Particle Test**  
 Gary Godfrey, Manager (SU-SLAC)  
 WBS 4.1.9.7

**Environmental Test**  
 Michael Lovellette, Manager (NRL)  
 WBS 4.1.9.8

**Science Verification, Analysis, and Calibration**  
 Eduardo do Couto e Silva, Manager (SU-SLAC)  
 WBS 4.1.9.9

**Mission**  
 Elliott Bloom, Manager (SU-SLAC)  
 WBS 4.1.9.A

- Bill Olson, Mechanical Engineer
- Patrick Williams, Designer
- Steve Score, Designer

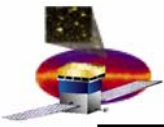
- Jim Panetta, Engineering Physicist
- Selim Tuvi, Software Developer
- Alicia Kavelaars, Software Engineer
- Lester Miller, Engineering Physicist

Various Personnel from NRL

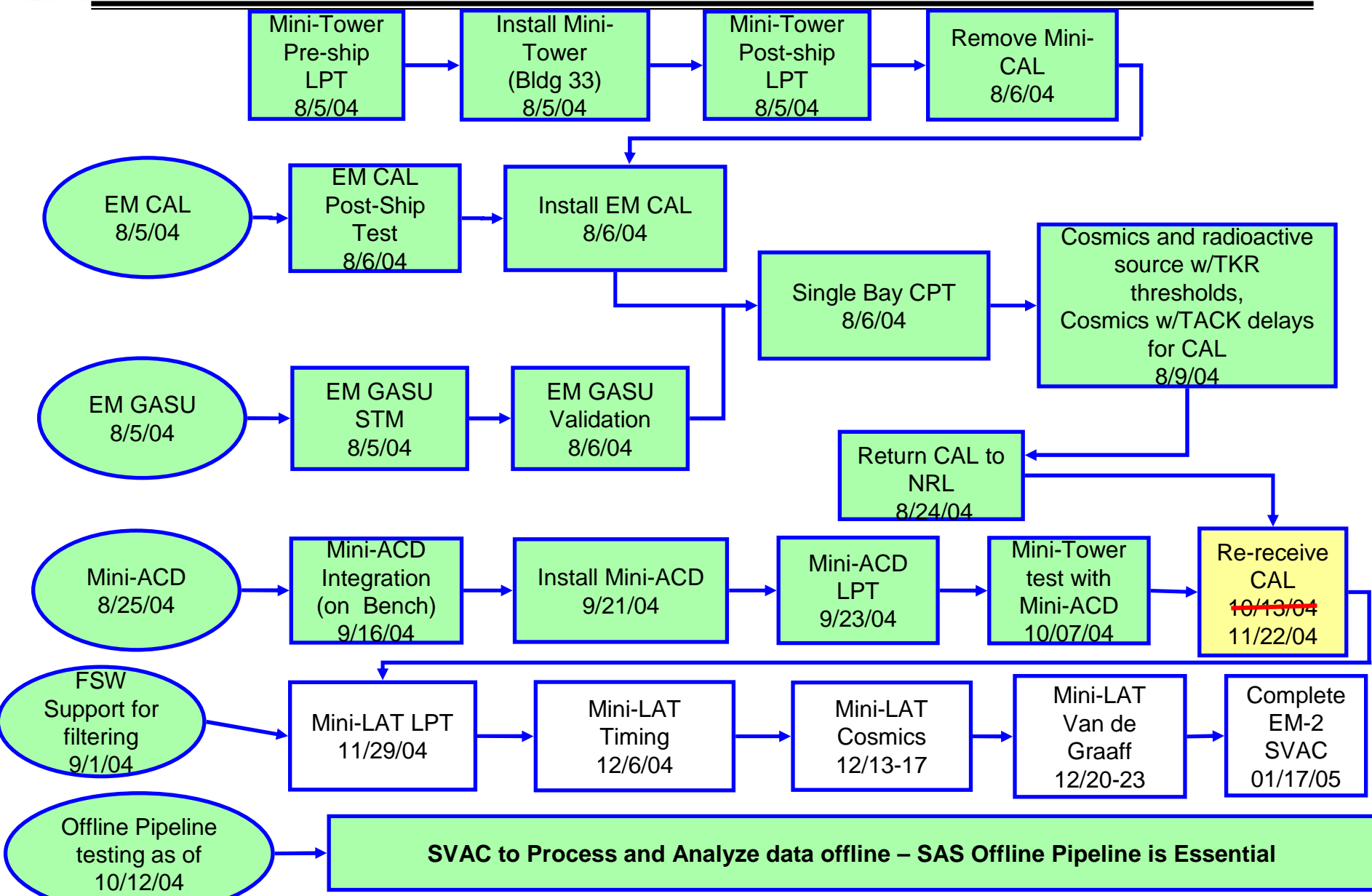
- Anders Borgland, Engineering Physicist
- Xin Chen, Software Developer
- Warren Focke, Engineering Physicist

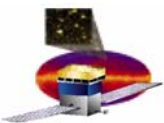
**LAT Collaboration I&T Coordination**





# EM-2 (August 04- January 05)





# Internal Peer Review RFA Status

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Department	# RFAs	# Responses	# Open
IFCT	26	26	26
MGSE	13	12	12
Particle Test	9	9	9
SVAC	14	8	6
Online	10	10	10

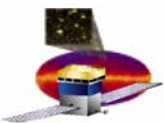
**Open Internal Peer Review RFAs will be assessed after the conclusion of the Two Tower IRR to determine if items should be closed or remain open.**



# Level of I&T Readiness Overview

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- **Areas that are generally ready**
  - Facility
  - MGSE (Except for Personnel Access Platform)
  - Procedures – Mechanical
  - EGSE
  - Particle Test
  - SVAC
  
- **Current Holes in I&T Readiness**
  - Procedures – Electrical (Closure of test definition)
  - MGSE – PAP
  - Tracker – lack of dry run experience with realistic EM.
  - Subsystem Script deliveries.
  - Survey and Alignment plans.
  - Hardware deliveries don't optimally support I&T flow. (TEM/PS)



# Two Tower IRR Agenda

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- |               |  |                   |
|---------------|--|-------------------|
| • 0800 - 0815 | Introduction   | E. Bloom          |
| • 0815 - 0830 | Safety Overview  | K. Fouts          |
| • 0830 - 0915 | I&T Plan   | K. Fouts          |
| • 0915 - 0930 | Break  |                   |
| • 0930 - 1200 | IFCT   | K. Fouts/B. Grist |
| • 1200 - 1330 | Lunch  |                   |
| • 1330 - 1400 | MGSE   | K. Fouts          |
| • 1400 - 1415 | QA Status  | D. Bartholomew    |
| • 1415 - 1445 | Online   | E. Bloom          |
| • 1445 - 1500 | Break  |                   |
| • 1500 - 1530 | Particle Test  | E. Bloom          |
| • 1530 - 1600 | SVAC Plan  | E. Bloom          |
| • 1600 - 1700 | Summary of Open Items  | D. Horn           |
|               | » Procedures – Electrical (lack of test definition)              |                   |
|               | » MGSE – PAP   |                   |
|               | » Tracker – lack of dry run experience with realistic EM.        |                   |
|               | » Subsystem Script deliveries.                                   |                   |
|               | » Survey and Alignment plans.                                    |                   |
|               | » Hardware deliveries don't optimally support I&T flow. (TEM/PS) |                   |
|               | » Other?   |                   |