

Implementing Arrangement

Between the
National Aeronautics and Space Administration
and the
U.S. Department of Energy
a

on
Cooperation
in the

Large Area Telescope (LAT) Project
of the
Gamma-ray Large Area Space Telescope Mission
(GLAST)

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ARTICLE I. DESCRIPTION OF COOPERATION

This Implementing Arrangement (IA) defines the cooperative activity between the National Aeronautics and Space Administration (NASA) and the Department of Energy (DOE) (referred to hereinafter as "the Parties") on NASA's Gamma-ray Large Area Space Telescope (GLAST) mission. Current plans are to launch GLAST in 2006, followed by a nominal period of flight operations of five years. This IA defines the responsibilities of the two agencies on the joint development of the Large Area Telescope (LAT) instrument for the GLAST Mission. The LAT is the primary scientific instrument to be flown on GLAST and is a high-energy, solid state, ~~non-pair-conversion-telescope based on state-of-the-art detector technology developed for~~ particle physics. The scientific objectives of the LAT instrument are defined in the GLAST Science Requirements Document (SRD).

NASA is authorized to enter into this IA pursuant to Sections 203(c)(5) and (6) of the National Aeronautics and Space Act of 1958, 42 U.S.C. §203(c)(5) and (6). The DOE is acting pursuant to authorities conferred in the Department of Energy Organization Act, 42 U.S.C. §7101, et seq., (42 U.S.C. §7151), the Atomic Energy Act of 1954, 42 U.S.C. §2011 et seq., including, but not limited to, 42 U.S.C. §2051. The NASA-DOE LAT cooperation is being conducted pursuant to the Memorandum of Understanding regarding Energy-Related Civil Space Activities between the National Aeronautics and Space Administration (NASA) and the Department of Energy (DOE), dated July 9, 1992.

The LAT will be designed, constructed, and operated by an international collaboration (hereinafter the "LAT Collaboration") selected by NASA in response to AO 99-OSS-03. NASA and DOE agree to accept, as initial baseline values, the scope, cost, instrument management and schedule data submitted by the LAT Collaboration in the LAT Proposal, subject to annual appropriations and any changes later agreed upon by NASA and DOE.

ARTICLE II. MANAGEMENT ARRANGEMENTS

NASA is solely responsible for the GLAST Mission, including setting the Mission parameters, selection of the scientific instruments, procurement of the spacecraft and launch vehicle, defining the interfaces with the scientific instruments, and launch and operation of the spacecraft and instruments. The GLAST Mission is the responsibility of the Astronomy and Physics Division of the NASA Office of Space Science, which has delegated management of the GLAST Project to the NASA Goddard Space Flight Center (GSFC). The LAT instrument is a key component of the GLAST Project. Therefore, the GSFC GLAST Project office has NASA management responsibility for verifying successful development, delivery, and operation of the LAT by the LAT Project.

The LAT Collaboration, currently consisting of scientists from 24 institutes and universities in five countries, was organized by the Stanford Linear Accelerator Center (SLAC) and Professor Peter Michelson of the Stanford University Department of Physics and SLAC. Professor

Michelson was selected Spokesperson for the LAT Collaboration. Following approval by the Director of SLAC and the Dean of Research of Stanford University, he was designated as the Principal Investigator (PI) for the GLAST LAT Flight Investigation Proposal submitted to NASA. Subsequently, this proposal was accepted by NASA and resulted in the NASA GLAST contract with Stanford University. SLAC is the Host Laboratory for the Collaboration. It is a DOE facility, operated for DOE by Stanford University under a Management and Operations (M&O) contract. As Host Laboratory, SLAC provides project management and fiscal accountability during all phases of the project. Funding for the LAT is provided by NASA through their contract with Stanford University, and by DOE through the M&O contract for SLAC. Foreign collaborators provide contributions in-kind through Memoranda of Agreement with SLAC, consistent with relevant agreements concluded between NASA and the GLAST Mission international partners. NASA and DOE have committed multi-year funding to the LAT Project according to profiles specified in the LAT Proposal, subject to annual appropriations.

While NASA has sole responsibility for the GLAST Mission, both NASA and DOE have substantial responsibility for the LAT. To ensure accountability for Federal funds and avoid the confusion of multiple lines of authority and reporting, both agencies agree that the LAT Instrument Project Leader (LIPL) will be the lead scientist and will be responsible for the LAT Project. The LIPL is approved jointly by NASA and DOE. The use of the title LIPL is intended to avoid confusing NASA and DOE terminology. NASA uses the title PI to describe the individual with LIPL responsibilities. DOE uses the title Spokesperson to describe the

individual with LIPL responsibilities. Professor Michelson has been given a joint appointment at SLAC, complementing his position of PI at Stanford and has been appointed the LIPL. This jointly approved role enables the LIPL to have the authority and the responsibility for the disbursement and expenditure of both NASA and DOE funds for the LAT and to be held accountable for these actions. The Director of SLAC and the Dean of Research at Stanford University, who both report to the President of Stanford University, are jointly responsible for Stanford's institutional oversight of the LAT project. In this regard, Professor Michelson reports to the Director of SLAC and the Dean of Research. Resolution of differences between the Director of SLAC and the Dean of Research at Stanford University is the responsibility of the President of Stanford University.

Responsibility for interagency coordination is exercised through the Astronomy and Physics Division of the Office of Space Science at NASA and the Division of High Energy Physics of the Office of Science at DOE. Each agency will appoint an individual to be responsible for joint interagency coordination. NASA and DOE oversight of the LAT Project is exercised through coordinated reviews.

The responsibilities of the NASA- and DOE-supported institutions and other participating entities of the international LAT Collaboration are specified in the LAT Proposal as endorsed by authorized responsible officials of the participating institutions. Cooperative commitments relevant to the GLAST Mission by international partners will be formalized through GLAST & agreements between NASA and the appropriate sponsoring agency of the cooperating

international partner. Implementation-level arrangements will be concluded between the Host Laboratory and the participating institutions. An International Finance Committee (IFC), chaired by the SLAC Associate Director for Research, will coordinate contributions by the foreign institutions and will report to the sponsoring agencies on LAT Project status, expenditures and financial needs.

The NASA Astronomy and Physics Division and the DOE Division of High Energy Physics will establish regular (nominally semi-annual) Headquarters-level coordination meetings to review progress and to resolve any issues that cannot be resolved at the GLAST Project level. Additional meetings may be scheduled if required. Topics addressed at the coordination meetings may include:

- Review, as required, of GLAST Project changes in the scope, cost and schedule baselines, and of subsequent changes to the baselines at Level 1 of the Work Breakdown Structures (WBS) for the LAT Project;
 - Concurrence on GLAST Project approval of a Project Execution Plan (PEP) (which describes the lines of authority and responsibilities for the management of the LAT) and Project Management Plan (which describes the management of subsidiary projects and is incorporated as an appendix to the PEP) and any subsequent modifications;
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- Review of LAT Project plans, budgets, and status reports to ensure timely and effective technical, cost, schedule, and management performance; and

Review of NASA and DOE funding plans relative to the programmatic needs of the LAT Project, including any external events affecting the LAT Project.

Technical details of the project, including a schedule, are included in Annex 1.

ARTICLE III. RESPONSIBILITIES

The Parties will use all reasonable efforts to accomplish the following agreed-upon roles and responsibilities for the LAT Project:

NASA Responsibilities

The NASA Astronomy and Physics Division, in the Office of Space Science, has responsibility for overall management of the NASA GLAST Mission, including the LAT, and for the interface with DOE for the LAT Project. The Astronomy and Physics Division is responsible for maintaining, in consultation with the DOE Division of High Energy Physics, the GLAST Mission science requirements as they pertain to the LAT. The GLAST Project Office at GSFC will serve as the single point of contact between the LAT Project and other NASA organizations

providing equipment, materials, and services for the LAT Project.

To implement the LAT Project as a component of the GLAST Project, NASA will perform or provide the following:

1. In coordination with DOE, conclude international agreements as appropriate with the international partners cooperating on GLAST;
 2. NASA will utilize its authority to certify duty free entry into the United States of all goods required to implement the GLAST Mission;
 3. Provide payload accommodation and accommodation engineering, and all necessary LAT-to-spacecraft integration services; hardware and software;
 4. Perform LAT-to-spacecraft payload certification, and payload safety certification for the GLAST mission flight;
 5. Provide necessary facilities and perform related services for testing and checkout at the launch site, as well as control center accommodations for LAT operations and monitoring as required for the GLAST Mission;
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6. Supply LAT housekeeping, scientific (unprocessed) and carrier-ancillary data products (e.g. state vector, timing) to the LAT team at the designated LAT Instrument Operations Center (LAT IOC); and
 7. Perform a mission-management function consisting of the following tasks in support of LAT:
 - Representation of the LAT to the GLAST Project and to the various supporting NASA organizations involved in the integration and flight of the LAT;
 - Detailed engineering analyses (e.g., stress, loads, etc.) to ensure compatibility of the LAT with the spacecraft through its launch and operation;
 - Guidance, identification and control of hazards, and lead role in development of safety compliance documentation, and representation of the LAT to the spacecraft and launch facility Safety Panels; and
 - Guidance in the development of requirements leveled on the spacecraft and lead role in negotiation of these requirements through the spacecraft Payload Integration Plan (PIP), the associated annexes, and required Interface Control Documents (ICDs).

DOE Responsibilities

The DOE Division of High Energy Physics, in the Office of Science, has programmatic responsibility under the M&O contract with Stanford University for SLAC, the Host Laboratory for the LAT Project. Under this contract, the SLAC Associate Director for Research along with the Principal Investigator for the NASA GLAST contract with Stanford University has organized the LAT Collaboration. As noted in Article II, above, the Spokesperson for the LAT Collaboration has been appointed LIPL, and, as such, is responsible for the definition, design, and development of the LAT hardware and related ground support equipment (GSE) and for delivery of the LAT to NASA for integration into the GLAST spacecraft. These responsibilities will include:

1. In coordination with NASA, and consistent with relevant agreements concluded between NASA and the international partners cooperating on the GLAST Mission, establish implementing arrangements among LAT international partners;
2. Management of all international transfer and shipment, unless otherwise agreed. This includes, but is not limited to, customs clearances, import and export licenses required for LAT systems, subsystems, or components, or, as mutually agreed, for any NASA tests, integration, or mission-specific equipment or technical data that is required to be shipped abroad;
3. Provision, when requested by NASA, of DOE technical and management support for all formal NASA reviews involving LAT (Safety Reviews; Spacecr Integration Reviews, Ground Operations Reviews, Flight Operations Reviews, etc.) and other related NASA reviews or activities;
4. Development and management of a LAT implementation Schedule consistent with NASA GLAST Project milestones, with periodic updates to keep NASA advised of the status of the LAT schedule;
5. Provision of technical and management data needed by NASA to complete programmatic requirements, e.g., Safety, Interface Control Documents, PIP, PIP Annexes, reviews, material lists, etc.;
6. Provision of all transport equipment (shipping containers, other LAT handling ground support equipment) required for LAT transport to the NASA integration facility; and
7. Management of (1) LAT science and engineering team activities where appropriate, including travel, visas, and related in-country logistics; (2) support for science operations before and during the LAT flight; and (3) science data analysis, distribution, and publication.

NASA or its related entities and DOE or its related entities will exchange data as required for the

analysis of the data and for providing the data to the public archives (see Article VIII). The details of the exchange of data and data products are defined in the GLAST Project Data Management Plan.

ARTICLE IV. EXCHANGE OF TECHNICAL DATA AND GOODS

Each Party shall transfer to the other Party only those technical and scientific data and goods necessary to fulfill its responsibilities under this IA, subject to the following:

1. Interface, integration, and safety data (excluding detailed design, manufacturing, and processing data, and associated software) will be exchanged by the Parties without restrictions as to use or disclosure.
2. In the event a Party finds it necessary, in carrying out its responsibilities under this IA, to transfer technical data other than that specified in paragraph 1, above, that a proprietary, and for which protection is to be maintained, such technical data will be marked with a notice indicating that it shall be used and disclosed by the receiving Party and its contractors and subcontractors only for the purposes of fulfilling the receiving Party's responsibilities under this IA, and that the technical data shall not be disclosed or transferred to any other entity without prior written permission of the furnishing Party. The receiving Party agrees to abide by the terms of the notice, and to protect any such marked technical data from unauthorized use and disclosure.
3. In the event a Party finds it necessary in carrying out its responsibilities under this IA to transfer technical data and goods that are to be protected for export control purposes, the furnishing Party shall mark with a notice or otherwise specifically identify such technical data or goods. The notice or identification shall indicate that such technical data and goods shall be used and such technical data shall be disclosed by the receiving Party and its contractors and subcontractors only for the purposes of fulfilling the receiving Party's responsibilities under the IA. The notice or identification shall also provide that such technical data shall not be disclosed, and such technical data and goods shall not be transferred, to any other entity without prior written permission of the furnishing Party. The Parties agree to abide by the terms of the notice or identification and to protect any such marked technical data and identified goods.
4. The Parties are under no obligation to protect any unmarked technical data or unidentified goods,
5. Nothing in this IA requires the Parties to transfer technical data and goods contrary to national laws or regulations relating to export controls or control of classified data.

ARTICLE V. PATENTS AND INVENTION RIGHTS

Unless otherwise agreed by the Parties, custody and administration of inventions made as a consequence of, or in direct relation to, the performance of activities under this IA will remain with the respective inventing Party. In the event an invention is made jointly by employees of the Parties or their contractors or by an employee of a Party's contractor, the Parties will consult and agree as to future actions toward establishment of patent protection for the invention.

ARTICLE VI. RESULTING DATA

Scientific data derived from the LAT will be made publicly available in a useable form as expeditiously as possible. The policy is outlined in NASA AO 99-OSS-03. All appropriate data products will be deposited with the High Energy Astrophysics Science Archival Research Center (HEASARC). The schedule and manner in which such deposits are to be made are described in the GLAST Project Data Management Plan.

In general, results of experiments will be made available to appropriate journals or other established channels by the cognizant experimental groups as soon as practicable, consistent with good scientific practice. In the event such reports or publications are copyrighted, NASA and DOE shall have a royalty-free right under the copyright to reproduce, distribute and use such copyrighted work for their purposes.

SLAC shall include the provisions of this article in agreements applicable to all of the members of the LAT Collaboration.

ARTICLE VII. FINANCIAL ARRANGEMENTS

The Parties shall each bear the costs of discharging their respective responsibilities under this IA, unless otherwise mutually agreed. This IA shall not be used to obligate or commit funds or as the basis for the transfer of funds.

The ability of the Parties to carry out their respective responsibilities under this IA shall be subject to the availability of appropriated funds. Should either Party encounter financing problems, that Party shall notify the other Party thereof in a timely manner.

ARTICLE VIII. PUBLIC INFORMATION

Release of public information regarding the LAT Project may be made by the appropriate Agency for its own portion of the project and, insofar as participation of the other is involved, after suitable consultation. The designated LAT Education and Public Outreach (E/PO) lead person will be the focal point for all LAT E/PO activities.

ARTICLE IX. LIABILITY

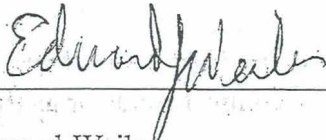
DOE acknowledges that a requirement of participation in the GLAST Mission is that it waive all claims for damage to its property or injury or death of its employees. This waiver includes claims against any of NASA's contractors or subcontractors or other GLAST Mission investigators. In addition, participation in GLAST Mission activities requires a similar waiver against all participating partners and their related entities. The terms of the required cross-waiver are contained in Annex 2 below. Consistent with this requirement, DOE, in signing this IA, agrees to extend the cross-waiver, by contractual provision or otherwise, to its LAT Project collaborators.

ARTICLE X. AMENDMENT

This IA may be modified or amended by written agreement between the Parties and may be terminated by mutual agreement or by either Party following 120 days written notice to the other Party.

ARTICLE XI. ENTRY INTO FORCE AND DURATION

This IA shall enter into force on the date of the last signature hereon and shall remain in force for the earlier of (1) completion of all activities under this agreement (2) or a period of ten (10) years from the effective date, unless earlier terminated.



Edward Weiler,
Associate Administrator
Office of Space Science
National Aeronautics and Space Administration



James F. Decker,
Acting Director
Office of Science
U. S. Department of Energy

Date: 1-15-02

Date: 1/18/02

GLOSSARY

GLAST Mission – Principally, a one-year survey of the gamma-ray sky followed by scheduled observations for a design lifetime of five years. GLAST is a facility class mission **within** the Structure and Evolution of the Universe Theme of the NASA Headquarters Office of Space Science. The Mission involves two instruments: the primary instrument, the Large Area Telescope, and a secondary instrument, the GLAST Burst Monitor. The Astronomy and Physics Division of the NASA Headquarters Office of Space Science is responsible for the Mission.

GLAST Project – The acquisition, commissioning, and operation of the hardware and software elements of the GLAST Mission, including the instruments, spacecraft, launch vehicle, and ground support facilities.

GLAST Project Office – The organization at GSFC delegated by NASA headquarters to execute the GLAST Mission. The GLAST Project Office is led by the **GLAST Project Manager**, appointed by the Director of GSFC and approved by NASA Headquarters.

GLAST Large Area Telescope (LAT) – The primary scientific instrument of the GLAST observatory. The LAT is a solid-state telescope consisting of a Silicon tracker with tungsten pair-conversion layers for track reconstruction followed by a CsI(Tl) calorimeter for energy measurement. It also includes the associated software and computing capability for track identification and reconstruction, and for physics analysis.

Host Laboratory – A federally-funded laboratory that provides infrastructure and technical support for execution of a project and provides fiduciary responsibility for federal funds. For a multi-agency project the Host Laboratory is designated jointly by the agencies involved to avoid confusion in lines of responsibility and reporting.

LAT Collaboration – A voluntary association of scientists, with committed support from their respective sponsoring agencies, formed to design, build, and operate the LAT in order to engage in the astrophysics program enabled by the LAT. Roles and responsibilities within the Collaboration are governed by a constitution and by-laws.

LAT Collaboration Spokesperson – A member of the Collaboration selected by the Collaboration to direct the activities of the Collaboration and empowered to represent the Collaboration in discussions and negotiations.

LAT Instrument Project Leader (LIPL) – The lead scientist responsible for the LAT Project. This individual is responsible for delivering the LAT instrument within the agreed budget and on the schedule required for the GLAST launch date. The LIPL was appointed by the Director of SLAC and the Dean of Research of Stanford University, acting on behalf of Stanford University, and subsequently approved by NASA and DOE. This jointly held appointment enables him/her to have the authority and the responsibility for the disbursement and expenditure of both NASA

and DOE funds for the LAT and to be held accountable for these actions.

LAT Principal Investigator (PI) – The lead scientist responsible for the NASA contract with Stanford University for participation in the LAT Collaboration.

LAT Project - The organization and the activity to design, fabricate, test, and deliver to the GLAST Project Office the Large Area Telescope, the primary instrument on the GLAST observatory.

SLAC Director – The chief executive officer of the Stanford Linear Accelerator Center, appointed by the President of Stanford University and confirmed by the U.S. Department of Energy.

Sponsoring Agency – A government agency that provides funding and oversight at the highest levels; e.g. NASA, DOE, and foreign agencies such as CNES (France) and ASI (Italy).

Institution – A laboratory or university whose scientists, engineers, technicians and management teams are involved in the project.

ANNEX 1 Project Technical Description

The purpose of this Annex is to categorize in general terms the basic technical characteristics of the LAT payload.

LAT Technical Characteristics

These approximate LAT technical characteristics provide a mutually controlled reference categorization of the LAT. They pertain to the LAT payload only and do not include NASA-provided mission-specific interface hardware, carriers, and carrier support structure.

LAT Technical Characteristics	
Mass including reserve (kg)	3000
Volume (m ³)	1.73x1.73x1.06
Power including reserve (W)	65.0
Internal Alignment Precision and Stability (arcsec, rms)	10
Downlink Rate (kbps, orbit average)	300

Current Project Schedule

LAT delivery for integration to GLAST spacecraft: March 1, 2005
GLAST launch: March 2006

ANNEX 2 cross-waiver of Liability

- A. The objective of this Annex is to establish a cross-waiver of liability by the Parties and related entities in the interest of encouraging participation in the exploration, exploitation and use of outer space. This cross-waiver of liability shall be broadly construed to achieve this objective.
- B. For the purposes of this Annex:
1. The Parties are the signatories to this IA
 2. The term "related entity" means:
 - a) a contractor, subcontractor, user, customer, or grantee of a Party at any tier;
 - b) a user, or customer, or grantee of a contractor or subcontractor, of Party at any tier;
or
 - c) a contractor, or subcontractor, or grantee of a user or customer, of a Party at any tier.
 3. The term "related entity" includes ~~another State or an agency or institution of another~~ State, where such State, agency or institution is an entity as described in a. through c., above, or is otherwise involved in the activities undertaken pursuant to this IA. The terms "contractors" and "subcontractors" include suppliers of any kind.
 4. The term "damage" means:
 - a) bodily injury to, or other impairment of health of, or death of, any person;
 - b) damage to, loss of, or loss of use of any property;
 - c) loss of revenue or profits; or
 - d) other direct, indirect, or consequential damage.
 5. The term "launch vehicle" means an object (or any part thereof) intended for launch, launched from Earth, or returning to Earth, which carries payloads.
 6. The term "payload" means all property to be flown or used on or in a launch vehicle.
 7. The term "Protected Space Operations" means all launch vehicle activities, and payload activities on Earth, in outer space, or in transit between Earth and outer space done in implementation of this IA. It includes, but is not limited to:

- a) research, design, development, test, manufacture, assembly, integration, operation, or use of launch or transfer vehicles, or a payload, as well as related support equipment, and facilities and services;
 - b) all activities related to ground support, test, training, simulation, or guidance and control equipment, and related facilities or services.
8. "Protected Space Operations" excludes activities on Earth that are conducted to develop further a payload's product or process for use other than for LAT-related activities in implementation of this Agreement.

C. Scope of Cross-waiver

1. Each Party agrees to a cross-waiver of liability pursuant to which each Party waives all claims against a . of the entities or persons listed in a through d., below, of this paragraph based on damage arising out of Protected Space Operations. This cross-waiver shall apply only if the person, entity, or property causing the damage is involved in Protected Space Operations and the person, entity, or property is damaged by virtue of its involvement in Protected Space Operations. The cross-waiver shall apply to any claims for damage, whatever the legal basis for such claims, including but not limited to delict and tort (including negligence of every degree and kind) and contract, against:
 - a) the other Party;
 - b) a related entity of any entity identified in subparagraph 1a., above;
 - c) the employees of any entity identified in subparagraph 1a., above;
 - d) any party to an agreement with either Party that involves LAT launch services.
2. In addition, each Party shall extend the cross-waiver of liability as set forth in paragraph 61. of this section to its own related entities by requiring them, by contract or otherwise, to agree to waive all claims against the entities or persons identified in subparagraph C1.a. of this annex.
3. For removal of doubt, this cross-waiver of liability includes a cross-waiver of liability arising from the Liability Convention where the person, entity, or property causing the damage is involved in Protected Space Operations, and the person, entity, or property damaged is damaged by virtue of its involvement in Protected Space Operations.
4. Notwithstanding the other provisions of this Annex, this cross-waiver of liability shall not be applicable to:

- a) claims between a Party and its own related entities or between its own related entities;
- b) claims made by a natural person, his/her estate, survivors, or subrogees for bodily injury, other impairment to health or death of such natural person;
- c) claims for damage caused by willful misconduct;
- d) intellectual property claims;
- e) claims for damage resulting from a failure of the Parties to extend the cross-waiver of liability as set forth in sub-paragraph B2. or from a failure of the Parties to ensure that their related entities extend the cross-waiver of liability as set forth in subparagraph B2.; or
- f) contract claims between the Parties based on the express contractual provisions.

5. Nothing in this Article shall be construed to create the basis for a claim or suit where none would otherwise exist

ANNEX 3 . POINTS OF CONTACT

The executive management points of contact for activities under this agreement are:

NASA

Director, Astronomy and Physics Division

Code SZ

Office of Space Sciences

NASA Headquarters

Washington, DC 20546

DOE

Director, Division of High Energy Physics

Office of Science, SC-22

U.S. Department of Energy

19901 Germantown Road

Germantown, MD 20874-1290

The Headquarters program management points of contact for programmatic, technical, and schedule issues are:

NASA

GLAST Program Executive

Code SZ

Office of Space Science

NASA Headquarters

Washington, DC 20546

DOE

GLAST LAT Program Manager

Division of High Energy Physics

Office of Science, SC-223

U.S. Department of Energy

19901 Germantown Road

Germantown, MD 20874-1290

The GLAST Project management point of contact (and NASA LAT Project Manager) is:

GLAST Project Manager
Code 4xx
NASA Goddard Space Flight Center
Greenbelt, MD 20771

The DOE LAT Project Manager is:

LAT Project Manager
DOE SLAC Site Office
Stanford Linear Accelerator Center
Menlo Park, CA 94025

