

## 2005 Current Fiscal Year Report: Nuclear Systems Strategic Roadmap Committee

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### 1. Department or Agency

National Aeronautics and Space Administration

### 2. Fiscal Year

2005

### 3. Committee or Subcommittee

Nuclear Systems Strategic Roadmap Committee

### 3b. GSA Committee No.

24632

### 4. Is this New During Fiscal Year?

Yes

### 5. Current Charter

12/23/2004

### 6. Expected Renewal Date

12/23/2006

### 7. Expected Term Date

03/23/2006

### 8a. Was Terminated During Fiscal Year?

Yes

### 8b. Specific Termination Authority

NASA Administrator Letter to Congress, 4/28/05

### 8c. Actual Term Date

05/22/2005

### 9. Agency Recommendation for Next Fiscal Year

Terminate

### 10a. Legislation Req to Terminate?

No

### 10b. Legislation Pending?

Enacted

### 11. Establishment Authority Agency Authority

### 12. Specific Establishment Authority

NASA Administrator Letter to Congress, 12/23/04

### 13. Effective Date

12/23/2004

### 14. Committee Type

Ad hoc

### 14c. Presidential?

No

### 15. Description of Committee Other Committee

### 16a. Total Number of Reports

No Reports for this Fiscal Year

### 17a. Open Meetings and Dates 2 17b. Closed Meetings and Dates 0 17c. Partially Closed Meetings and Dates 0 17d. Total Meetings and Dates 2

Purpose	Start	End
The purpose of the first meeting was to initiate the NASA Strategic Roadmapping activity for nuclear systems; hear briefings on current and potential plans; discuss past programs and historical issues; to set schedule and identify areas where further information would be needed.	02/15/2005	02/16/2005
The purpose of the second meeting was to hear briefings on potential uses of nuclear power for space exploration; to discuss potential recommendations; and to begin writing the final report.	04/05/2005	04/06/2005

### Number of Committee Meetings Listed: 2

	Current FY	Next FY
18a(1). Personnel Pmts to Non-Federal Members	\$0.00	\$0.00
18a(2). Personnel Pmts to Federal Members	\$187,613.00	\$0.00
18a(3). Personnel Pmts to Federal Staff	\$143,252.00	\$0.00
18a(4). Personnel Pmts to Non-Member Consultants	\$0.00	\$0.00
18b(1). Travel and Per Diem to Non-Federal Members	\$10,626.00	\$0.00

<b>18b(2). Travel and Per Diem to Federal Members</b>	\$5,682.00	\$0.00
<b>18b(3). Travel and Per Diem to Federal Staff</b>	\$0.00	\$0.00
<b>18b(4). Travel and Per Diem to Non-member Consultants</b>	\$0.00	\$0.00
<b>18c. Other(rents,user charges, graphics, printing, mail, etc.)</b>	\$95,363.00	\$0.00
<b>18d. Total</b>	\$442,536.00	\$0.00
<b>19. Federal Staff Support Years (FTE)</b>	1.40	0.00

**20a. How does the Committee accomplish its purpose?**

The Nuclear Systems Strategic Roadmap Committee was established to provide advice and recommendations to NASA regarding the programmatic development and utilization of space nuclear power systems for space exploration.

**20b. How does the Committee balance its membership?**

Membership was balanced across expertise (spacecraft design, mission design, nuclear systems design) and geographic location and institution type (industry, government, academia and east, south, central and west).

**20c. How frequent and relevant are the Committee Meetings?**

Estimated number of meetings per year - 4. Actual meetings held - 2.

**20d. Why can't the advice or information this committee provides be obtained elsewhere?**

The committee was deemed necessary to the public interest in connection with the Agency's performance of its duties under the law. Nuclear systems are an identified need for future exploration activities and the investment in bringing these systems to maturity for space exploration would be significant. Recommendations provided by the committee would have contributed to Agency program prioritization, budget formulation, facilities and human capital planning and to technology investment.

**20e. Why is it necessary to close and/or partially closed committee meetings?**

**21. Remarks**

This committee was terminated at the direction of the NASA Administrator.

**Designated Federal Officer**

Victoria Friedensen Program Executive, Prometheus Nuclear Systems

<b>Committee Members</b>	<b>Start</b>	<b>End</b>	<b>Occupation</b>	<b>Member Designation</b>
Ahearne, John	01/07/2005	05/22/2005	Chairman, Nuclear Regulatory Commission (ret.)	Special Government Employee (SGE) Member

Allen, Doug	01/07/2005	05/22/2005	Schafer Corporation	Special Government Employee (SGE) Member
Anderson, Ken	01/07/2005	05/22/2005	NASA Goddard Space Flight Center	Regular Government Employee (RGE) Member
Apostolakis, George	01/07/2005	05/22/2005	Massachusetts Institute of Technology	Special Government Employee (SGE) Member
Bankston, Perry	01/07/2005	05/22/2005	NASA Jet Propulsion Laboratory (note: JPL is an FFRDC)	Ex Officio Member
Bartine, David	01/07/2005	05/22/2005	NASA Kennedy Space Center	Regular Government Employee (RGE) Member
Berry, Dennis	12/24/2004	05/22/2005	Sandia National Laboratory	Ex Officio Member
Bowen, Stephen	01/07/2005	05/22/2005	NASA Johnson Space Center	Regular Government Employee (RGE) Member
Bradley, Theron	01/07/2005	05/22/2005	Office of Naval Reactors, Department of Energy (ret.)	Special Government Employee (SGE) Member
Cambier, Jean-Luc	12/24/2004	05/22/2005	National Security Space, U.S. Air Force	Ex Officio Member
Christiansen, Andrew	01/07/2005	05/22/2005	Northrop Grumman Corporation	Special Government Employee (SGE) Member
Cobb, Donald	12/24/2004	05/22/2005	Los Alamos National Laboratory, Department of Energy	Ex Officio Member
Gavin, Thomas	01/07/2005	05/22/2005	NASA Jet Propulsion Laboratory (note: JPL is an FFRDC)	Special Government Employee (SGE) Member
Hill, David	12/24/2004	05/22/2005	Oak Ridge Laboratory, Department of Energy	Ex Officio Member
Jenkins, Jason	12/24/2004	05/22/2005	Exploration Systems Mission Directorate, NASA Headquarters	Ex Officio Member
Kasperson, Roger	01/07/2005	05/22/2005	Clark University	Special Government Employee (SGE) Member
Klein, Andrew	01/07/2005	05/22/2005	Oregon State University	Special Government Employee (SGE) Member
Kulcinski, Gerald	01/07/2005	05/22/2005	University of Wisconsin	Special Government Employee (SGE) Member
Lake, James	12/24/2004	05/22/2005	Idaho National Laboratory, Department of Energy	Ex Officio Member
Martin, Gary	12/24/2004	05/22/2005	Advanced Planning and Integration Office, NASA Headquarters	Ex Officio Member
Misra, Ajay	12/24/2004	05/22/2005	Science Mission Directorate, NASA Headquarters	Ex Officio Member
Mosquera, James	01/07/2005	05/22/2005	Office of Naval Reactors, Department of Energy	Regular Government Employee (RGE) Member
Nainiger, Joseph	12/24/2004	05/22/2005	NASA Glenn Research Center	Ex Officio Member
Neibur, Curt	12/24/2004	05/22/2005	Science Mission Directorate, NASA Headquarters	Ex Officio Member
Pilcher, Carl	12/24/2004	05/22/2005	Science Mission Directorate, NASA Headquarters	Ex Officio Member
Rosendhal, Jeffrey	12/24/2004	05/22/2005	Office of Education, NASA Headquarters (ret.)	Ex Officio Member
Scolese, Christopher	01/07/2005	05/22/2005	Deputy Director, NASA Goddard Space Flight Center	Regular Government Employee (RGE) Member
Steidle, Craig	01/07/2005	05/22/2005	Associate Administrator for Exploration Systems Mission Directorate, NASA Headquarters	Regular Government Employee (RGE) Member
Swanson, Theodore	01/07/2005	05/22/2005	NASA Goddard Space Flight Center	Regular Government Employee (RGE) Member
Taylor, Ray	12/24/2004	05/22/2005	Director, Prometheus Nuclear Systems, NASA Headquarters	Ex Officio Member
Wahlquist, Earl	01/07/2005	05/22/2005	Office of Nuclear Energy, Department of Energy	Regular Government Employee (RGE) Member
Whitaker, Ann	01/07/2005	05/22/2005	NASA Marshall Space Flight Center	Regular Government Employee (RGE) Member
Wollman, Michael	01/07/2005	03/28/2005	Knolls Atomic Power Laboratory, Lockheed Martin	Special Government Employee (SGE) Member

**Number of Committee Members Listed: 33**

**Narrative Description**

Future NASA missions are predicted to require high-power, long-lived, efficient energy technologies to support human and robotic missions. Currently, NASA missions to the outer solar system are hampered by lack of power - specifically solar power - while human missions to the moon or Mars will require much higher power systems than currently available. To meet these goals, NASA is considering advanced nuclear power systems to enable extended human and robotic exploration. The Nuclear Systems Strategic Roadmap Committee was established to provide guidance on strategic planning for advanced nuclear power systems development.

**What are the most significant program outcomes associated with this committee?**

Checked if Applies

- Improvements to health or safety
- Trust in government
- Major policy changes
- Advance in scientific research
- Effective grant making
- Improved service delivery
- Increased customer satisfaction
- Implementation of laws or regulatory requirements
- Other

**Outcome Comments**

The Nuclear Systems Roadmap was to serve as an decisionmaking tool to ensure development and delivery of these advanced nuclear power systems in time to meet other strategic exploration goals.

**What are the cost savings associated with this committee?**

Checked if Applies

- None
- Unable to Determine
- Under \$100,000
- \$100,000 - \$500,000
- \$500,001 - \$1,000,000
- \$1,000,001 - \$5,000,000
- \$5,000,001 - \$10,000,000

Over \$10,000,000   
Cost Savings Other

### Cost Savings Comments

The activity was not completed therefore no potential cost savings could be determined.

**What is the approximate Number of recommendations produced by this committee for the life of the committee?**

0

### Number of Recommendations Comments

No recommendations were delivered.

**What is the approximate Percentage of these recommendations that have been or will be Fully implemented by the agency?**

0%

### % of Recommendations Fully Implemented Comments

No recommendations were delivered.

**What is the approximate Percentage of these recommendations that have been or will be Partially implemented by the agency?**

0%

### % of Recommendations Partially Implemented Comments

No recommendations were delivered.

**Does the agency provide the committee with feedback regarding actions taken to implement recommendations or advice offered?**

Yes  No  Not Applicable

### Agency Feedback Comments

NA

**What other actions has the agency taken as a result of the committee's advice or recommendation?**

Checked if Applies

Reorganized Priorities

Reallocated resources

- Issued new regulation
- Proposed legislation
- Approved grants or other payments
- Other

**Action Comments**

NA

**Is the Committee engaged in the review of applications for grants?**

No

**Grant Review Comments**

NA

**How is access provided to the information for the Committee's documentation?**

Checked if Applies

- Contact DFO
- Online Agency Web Site
- Online Committee Web Site
- Online GSA FACA Web Site
- Publications
- Other

**Access Comments**

NA