

2024 Current Fiscal Year Report: Advisory Committee for Nuclear Security

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1. Department or Agency

Department of Energy

2. Fiscal Year

2024

3. Committee or Subcommittee

Advisory Committee for Nuclear
Security

3b. GSA Committee

No.

83065

4. Is this New During Fiscal Year? **5. Current Charter** **6. Expected Renewal Date** **7. Expected Term Date**

No 02/02/2023 02/02/2025

8a. Was Terminated During Fiscal Year? **8b. Specific Termination Authority** **8c. Actual Term Date**

No

9. Agency Recommendation for Next Fiscal Year **10a. Legislation Req to Terminate?** **10b. Legislation Pending?**

Continue No Not Applicable

11. Establishment Authority Agency Authority

12. Specific Establishment Authority **13. Effective Date** **14. Committee Type** **14c. Presidential?**

Agency Authority 11/27/2012 Continuing No

15. Description of Committee Other Committee

16a. Total Number of Reports No Reports for this Fiscal Year

17a. Open 0 **17b. Closed** 0 **17c. Partially Closed** 0 **Other Activities** 0 **17d. Total** 0

Meetings and Dates

No Meetings

Current Next
FY FY

18a(1). Personnel Pmts to Non-Federal Members	\$0.00	\$0.00
18a(2). Personnel Pmts to Federal Members	\$0.00	\$0.00
18a(3). Personnel Pmts to Federal Staff	\$0.00	\$0.00
18a(4). Personnel Pmts to Non-Member Consultants	\$0.00	\$0.00
18b(1). Travel and Per Diem to Non-Federal Members	\$0.00	\$0.00
18b(2). Travel and Per Diem to Federal Members	\$0.00	\$0.00
18b(3). Travel and Per Diem to Federal Staff	\$0.00	\$0.00
18b(4). Travel and Per Diem to Non-member Consultants	\$0.00	\$0.00
18c. Other(rents,user charges, graphics, printing, mail, etc.)	\$0.00	\$0.00
18d. Total	\$0.00	\$0.00
19. Federal Staff Support Years (FTE)	0.00	0.00

20a. How does the Committee accomplish its purpose?

The ACNS provides independent advice and recommendations to the DOE Under Secretary for Nuclear Security/NNSA Administrator on the stewardship and modernization of the Nation's nuclear stockpile and enterprise; nuclear nonproliferation and arms control; and counterterrorism and counterproliferation. Such issues include, but are not limited to; assessment of the U.S. nuclear weapons stockpile; the science, technology and engineering infrastructure needed to maintain the U.S. stockpile and the overall U.S. nuclear deterrent; the U.S. nuclear weapons manufacturing and production complex facilities and related technologies; and how to integrate and leverage the science, products, and

infrastructure of NNSA to address the complementary missions of nuclear deterrence, arms control, and nonproliferation.

20b. How does the Committee balance its membership?

ACNS's membership consists of not more than 15 members, comprised of recognized scientific and technical experts from scientific and academic communities and the national laboratories.

Specific expertise relevant to the mission/function of the Committee includes: high energy density physics (HED), materials science, nuclear physics, advanced computing and simulation, nuclear weapon design, engineering development, industrial production, program management, nonproliferation, national security policy, and other related fields. Membership balance is not static given the broad nature of ACNS's mission.

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

The ACNS will meet periodically, approximately two to four times a year.

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

Nuclear security is a unique mission to NNSA. ACNS provides advice to the NNSA Administrator on how to effectively implement the enterprise's mission based on its foundation in national security strategy. The Committee will also work to analyze management issues including facility operations and fiscal matters, along with identifying potential applications of capabilities to broader national security challenges. ACNS members draw on scientific and technical expertise to identify barriers to the effective execution of the NNSA Administrator's program

objectives. ACNS also provides strategic management advice on where and how to focus the Program's resources to achieve maximum impact.

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

The purpose of closing the ACNS meetings to hold discussions on topics identified above, is consistent with 5 U.S.C. § 552b(c)(1) and (3). These provisions provide that such meetings may be closed when the disclosure of information under criteria established by Executive Order are to be kept secret in the interests of national defense or foreign policy, and when information is specifically exempted from disclosure by statute. The information to be discussed at the meeting falls within the classification categories set forth in Executive Order 13526, Classified National Security Information (Dec. 29, 2009) and the Atomic Energy Act of 1954, 42 U.S.C. § 2161 and 2162, as amended.

21. Remarks

In FY 2023 the charter was amended to broaden its scope and rename it the ACNS. Two meetings were held in FY 2023, one virtual and one hybrid, to approve the DNN Report and develop a workplan for future efforts. A subcommittee was established to review NNSA's plutonium strategy.

Designated Federal Officer

Njema J Frazier Director, Office of Strategic Partnerships and Engagement

Committee Members	Start	End	Occupation	Member Designation
Cook, Donald	07/08/2018	12/31/2026	Former Deputy Administrator DP	Special Government Employee (SGE) Member

Creedon, Madelyn	08/01/2023	12/31/2026	Former Principal Deputy Administrator, NNSA	Special Government Employee (SGE) Member
Goldstein, William	04/13/2023	12/31/2026	Former Director, Livermore National Laboratory	Special Government Employee (SGE) Member
Graham, Samuel	04/13/2023	12/31/2026	Dean, of the A. James Clark School of Engineering, U MD	Special Government Employee (SGE) Member
Harvey, John	07/08/2018	12/31/2026	Former Principal Deputy Ass Sec of Def for NCB	Special Government Employee (SGE) Member
Hayes, Robert	04/13/2023	12/31/2026	Associate Professor of Nuclear Engineering	Special Government Employee (SGE) Member
Hommert, Paul	04/13/2023	12/31/2026	Former Director, Sandia National Laboratories	Special Government Employee (SGE) Member
Johnson, Stephen	12/22/2016	12/31/2026	Former Director, Strategic Systems Programs	Special Government Employee (SGE) Member
Kurfess, Tom	04/16/2023	12/31/2026	Professor of Mechanical Engineering, Georgia Tech.	Special Government Employee (SGE) Member
Pozzi, Sara	04/13/2023	12/31/2026	Professor of Nuclear Engineering, University of Michigan	Special Government Employee (SGE) Member
Rollett, Anthony	10/22/2018	12/31/2026	Carnegie Mellon University	Special Government Employee (SGE) Member

Number of Committee Members Listed: 11

Narrative Description

The Department of Energy National Nuclear Security Administration (NNSA) is committed to examining its programs, challenges, and future direction in order to advance the enterprise. The Advisory Committee for Nuclear Security (ACNS) will provide NNSA leadership with independent recommendations from experts regarding how to deliver the mission more efficiently and effectively

while keeping pace with threats and evolving conditions. The ACNS will provide insight on the stewardship and modernization of the Nation's nuclear stockpile and enterprise, nuclear nonproliferation and arms control, and counterterrorism and counter proliferation. The Committee will advise NNSA leadership on topics such as technical approach and workforce pipeline programs and activities.

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

Checked if
Applies

Improvements to health or safety	<input type="checkbox"/>
Trust in government	<input type="checkbox"/>
Major policy changes	<input type="checkbox"/>
Advance in scientific research	<input checked="" type="checkbox"/>
Effective grant making	<input type="checkbox"/>
Improved service delivery	<input checked="" type="checkbox"/>
Increased customer satisfaction	<input type="checkbox"/>
Implementation of laws or regulatory requirements	<input type="checkbox"/>
Other	<input type="checkbox"/>

Outcome Comments

Not Applicable

What are the cost savings associated with this committee?

Checked if Applies

None	<input type="checkbox"/>
Unable to Determine	<input checked="" type="checkbox"/>
Under \$100,000	<input type="checkbox"/>
\$100,000 - \$500,000	<input type="checkbox"/>
\$500,001 - \$1,000,000	<input type="checkbox"/>
\$1,000,001 - \$5,000,000	<input type="checkbox"/>
\$5,000,001 - \$10,000,000	<input type="checkbox"/>
Over \$10,000,000	<input type="checkbox"/>
Cost Savings Other	<input type="checkbox"/>

Cost Savings Comments

The ACNS makes recommendations which include comments on prioritization and efficient use of funds within NNSA. If adopted these recommendations may result in cost avoidance or more efficient use of available funds but are not quantifiable.

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

65

Number of Recommendations Comments

There are 19 separate recommendations in the (classified) report "Workforce for a Resilient U.S. Nuclear Deterrent". There are two recommendations in the (classified) report Assessment of the "State of Understanding of Pu Primary Aging". There are 5 recommendations in the "High Performance Computing" report. There are 6 recommendations in the "Stockpile Responsiveness Program" report. There are 33 recommendations in the "Independent Review of Defense Nuclear Nonproliferation (DNN) Program" report in FY 23.

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

70%

% of Recommendations Fully Implemented Comments

The exercise and demonstration of workforce capabilities are being incorporated into the nuclear weapon enterprise end-to-end pre-production prototype-development activities. An update to the Pu Strategy will address the Pu Aging recommendations. The High Performance Computing recommendations and DNN Program recommendations are being integrated into managing the program.

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

30%

% of Recommendations Partially Implemented Comments

The exercise and demonstration of workforce capabilities are being incorporated into the nuclear weapon enterprise end-to-end pre-production prototype-development activities. The Stockpile Responsiveness Program recommendations are being implemented as funds become available.

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

Yes ☒ No ☐ Not Applicable ☐

Agency Feedback Comments

NNSA provides an update to the committee on the implementation status of its recommendations when the committee formally meets. Responses will be posted to the committee website.

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

Checked if Applies

Reorganized Priorities	<input type="checkbox"/>
Reallocated resources	<input type="checkbox"/>
Issued new regulation	<input type="checkbox"/>
Proposed legislation	<input type="checkbox"/>
Approved grants or other payments	<input type="checkbox"/>
Other	<input type="checkbox"/>

Action Comments

Not Applicable

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

No

Grant Review Comments

Not Applicable

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

Checked if Applies

Contact DFO	<input type="checkbox"/>
Online Agency Web Site	<input type="checkbox"/>
Online Committee Web Site	<input type="checkbox"/>
Online GSA FACA Web Site	<input type="checkbox"/>
Publications	<input type="checkbox"/>
Other	<input type="checkbox"/>

Access Comments

The initial charge to the committee was presented at the Committee's first meeting. All meetings have been closed citing the national security and classified information exemption in the Government in the Sunshine Act.