

and ML in nuclear power industry operations and management, as well as potential pitfalls and challenges associated with their application.

1. What is status of the commercial nuclear power industry development or use of AI/ML tools to improve aspects of nuclear plant design, operations or maintenance or decommissioning? What tools are being used or developed? When are the tools currently under development expected to be put into use?

2. What areas of commercial nuclear reactor operation and management will benefit the most, and the least, from the implementation of AI/ML? Possible examples include, but are not limited to, inspection support, incident response, power generation, cybersecurity, predictive maintenance, safety/risk assessment, system and component performance monitoring, operational/maintenance efficiency and shutdown management.

3. What are the potential benefits to commercial nuclear power operations of incorporating AI/ML in terms of (a) design or operational automation, (b) preventive maintenance trending, and (c) improved reactor operations staff productivity?

4. What AI/ML methods are either currently being used or will be in the near future in commercial nuclear plant management and operations? Example of possible AI/ML methods include, but are not limited to, artificial neural networks, decision trees, random forests, support vector machines, clustering algorithms, dimensionality reduction algorithms, data mining and content analytics tools, gaussian processes, Bayesian methods, natural language processing, and image digitization.

5. What are the advantages or disadvantages of a high-level, top-down strategic goal for developing and implementing AI/ML across a wide spectrum of general applications versus an ad-hoc, case-by-case targeted approach?

6. With respect to AI/ML, what phase of technology adoption is the commercial nuclear power industry currently experiencing and why? The current technology adoption model characterizes phases into categories such as: the innovator phase, the early adopter phase, the early majority phase, the late majority phase, and the laggard phase.

7. What challenges are involved in balancing the costs associated with the development and application of AI/ML tools, against plant operational and engineering benefits when integrating

AI/ML into operational decision-making and workflow management?

8. What is the general level of AI/ML expertise in the commercial nuclear power industry (e.g. expert, well-versed/skilled, or beginner)?

9. How will AI/ML effect the commercial nuclear power industry in terms of efficiency, costs, and competitive positioning in comparison to other power generation sources?

10. Does AI/ML have the potential to improve the efficiency and/or effectiveness of nuclear regulatory oversight or otherwise affect regulatory costs associated with safety oversight? If so, in what ways?

11. AI/ML typically necessitates the creation, transfer and evaluation of very large amounts of data. What concerns, if any, exist regarding data security in relation to proprietary nuclear plant operating experience and design information that may be stored in remote, offsite networks?

Dated: April 15, 2021.

For the Nuclear Regulatory Commission.

**Mehdi Reisi Fard,**

*Chief, Performance and Reliability Branch, Division of Risk Analysis, Office of Nuclear Regulatory Research.*

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## NUCLEAR REGULATORY COMMISSION

### Advisory Committee on the Medical Uses of Isotopes: Meeting Notice

**AGENCY:** U.S. Nuclear Regulatory Commission.

**ACTION:** Notice of Meeting.

**SUMMARY:** The U.S. Nuclear Regulatory Commission (NRC) will convene a public teleconference meeting of the Advisory Committee on the Medical Uses of Isotopes (ACMUI) on May 27, 2021, to discuss the NRC staff's assessment of medical related events for fiscal year 2020 and the ACMUI Abnormal Occurrence Subcommittee's draft report on the proposed limited revisions to abnormal occurrence criteria for medical events. The meeting agenda is subject to change. Meeting information, including a copy of the agenda and related documents, will be available on the ACMUI's Meetings and Related Documents web page at <https://www.nrc.gov/reading-rm/doc-collections/acmui/meetings/2021.html>. The agenda and related meeting documents may also be obtained by contacting Ms. Kellee Jamerson using the information below.

**DATES:** The teleconference meeting will be held on Thursday, May 27, 2021, 1:00 p.m. to 5:00 p.m. Eastern Daylight Time.

Date	Webinar information
May 27, 2021 ...	Link: <a href="https://usnrc.webex.com">https://usnrc.webex.com</a> Event number: 199 574 5068.

**Public Participation:** The meeting will be held as a webinar using Cisco WebEx. Any member of the public who wishes to participate in any portion of this meeting should register in advance of the meeting by accessing the provided link above. Upon successful registration, a confirmation email will be generated providing the telephone bridge line and a link to join the webinar on the day of the meeting. Members of the public should also monitor the NRC's Public Meeting Schedule at <https://www.nrc.gov/pmns/mtg> for any meeting updates. If there are any questions regarding the meeting, persons should contact Ms. Jamerson using the information below.

**Contact Information:** Kellee Jamerson, email: [Kellee.Jamerson@nrc.gov](mailto:Kellee.Jamerson@nrc.gov), telephone: 301-415-7408.

### Conduct of the Meeting

The ACMUI Chair, Darlene F. Metter, M.D., will preside over the meeting. Dr. Metter will conduct the meeting in a manner that will facilitate the orderly conduct of business. The following procedures apply to public participation in the meeting:

1. Persons who wish to provide a written statement should submit an electronic copy to Ms. Jamerson at the contact information listed above. All written statements must be received by May 24, 2021, three business days prior to the meeting, and must pertain to the topics on the agenda for the meeting.

2. Questions and comments from members of the public will be permitted during the meeting, at the discretion of the ACMUI Chairman.

3. The draft transcript and meeting summary will be available on ACMUI's website <https://www.nrc.gov/reading-rm/doc-collections/acmui/meetings/2021.html> on or about July 9, 2021.

4. Persons who require special services, such as those for the hearing impaired, should notify Ms. Jamerson of their planned participation.

This meeting will be held in accordance with the Atomic Energy Act of 1954, as amended (primarily Section 161a); the Federal Advisory Committee Act (5 U.S.C. App); and the Commission's regulations in 10 CFR part 7.

Dated at Rockville, Maryland, this 15th day of April 2021.

For the U.S. Nuclear Regulatory Commission.

**Russell E. Chazell,**

*Federal Advisory Committee Management Officer.*

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## OFFICE OF PERSONNEL MANAGEMENT

### Excepted Service

**AGENCY:** Office of Personnel Management (OPM).

**ACTION:** Notice.

**SUMMARY:** This notice identifies Schedule A, B, and C appointing authorities applicable to a single agency that were established or revoked from February 1, 2021 to February 28, 2021.

**FOR FURTHER INFORMATION CONTACT:** Julia Alford, Senior Executive Resources Services, Senior Executive Services and Performance Management, Employee Services, 202-606-2246.

**SUPPLEMENTARY INFORMATION:** In accordance with 5 CFR 213.103, Schedule A, B, and C appointing authorities available for use by all agencies are codified in the Code of Federal Regulations (CFR). Schedule A, B, and C appointing authorities applicable to a single agency are not codified in the CFR, but the Office of Personnel Management (OPM)

publishes a notice of agency-specific authorities established or revoked each month in the **Federal Register** at [www.gpo.gov/fdsys/](http://www.gpo.gov/fdsys/). OPM also publishes an annual notice of the consolidated listing of all Schedule A, B, and C appointing authorities, current as of June 30, in the **Federal Register**.

### Schedule A

No Schedule B Authorities to report during February 2021.

### Schedule B

No Schedule B Authorities to report during February 2021.

### Schedule C

The following Schedule C appointing authorities were approved during February 2021.

Agency name	Organization name	Position title	Authorization No.	Effective date
DEPARTMENT OF AGRICULTURE	Office of the Assistant Secretary for Congressional Relations. Agricultural Marketing Service .....	Legislative Analyst .....	DA210070	02/01/2021
		Senior Advisor for Fair and Competitive Markets.	DA210086	02/12/2021
		Senior Policy Advisor .....	DA210079	02/04/2021
		Policy Advisor .....	DA210089	02/23/2021
		Senior Advisor for Data and Technology.	DA210085	02/12/2021
DEPARTMENT OF COMMERCE ...	Rural Utilities Service .....	Senior Policy Advisor .....	DA210080	02/04/2021
		Executive Assistant .....	DC210081	02/05/2021
		Senior Advisor (Upskilling and Broadband).	DC210076	02/10/2021
		Scheduler .....	DC210079	02/05/2021
		Policy Advisor .....	DC210083	02/05/2021
DEPARTMENT OF DEFENSE .....	Office of Advance, Scheduling and Protocol. Office of Policy and Strategic Planning.	Deputy Director, Office of Policy and Strategic Planning.	DC210086	02/10/2021
		Senior Advisor .....	DC210087	02/25/2021
		Special Assistant .....	DC210080	02/05/2021
		Special Assistant (2) .....	DD210191	02/12/2021
		Deputy Press Secretary .....	DD210193	02/12/2021
	Office of the Deputy Secretary ..... Office of the Assistant Secretary of Defense (Legislative Affairs). Office of the Assistant to the Secretary of Defense (Public Affairs).	Director of Digital Media .....	DD210173	02/02/2021
		Research Assistant .....	DD210199	02/18/2021
		Speechwriter (2) .....	DD210175	02/02/2021
		Deputy Director of Protocol .....	DD210205	02/25/2021
		Special Assistant (3) .....	DD210194	02/12/2021
	Office of the Secretary of Defense	Special Assistant (3) .....	DD210178	02/02/2021
		Special Assistant (4) .....	DD210186	02/12/2021
		Special Assistant (4) .....	DD210200	02/18/2021
		Special Assistant (4) .....	DD210170	02/02/2021
		Special Assistant (4) .....	DD210174	02/02/2021
	Office of the Under Secretary of Defense (Acquisition and Sustainment).	Special Assistant (4) .....	DD210189	02/12/2021
		Special Assistant .....	DD210192	02/12/2021
		Special Assistant .....	DD210177	02/02/2021
		Special Assistant (3) .....	DD210172	02/02/2021
		Special Assistant (3) .....	DD210180	02/02/2021
DEPARTMENT OF THE AIR FORCE.	Office of the Under Secretary of Defense (Personnel and Readiness).	Special Assistant (3) .....	DD210202	02/18/2021
		Special Assistant (3) .....	DF210007	02/16/2021
DEPARTMENT OF THE ARMY .....	Office of the General Counsel ..... Office of the Secretary ..... Office of the Under Secretary ..... Office of the General Counsel ..... Office Assistant Secretary Army (Civil Works).	Attorney Advisor/Special Assistant	DF210007	02/16/2021
		Special Assistant .....	DF210008	02/16/2021
		Special Assistant .....	DF210009	02/16/2021
		Attorney Advisor .....	DW210009	02/11/2021
		Special Assistant .....	DW210010	02/11/2021