

Miller by February 8 at [jj.miller@nasa.gov](mailto:jj.miller@nasa.gov) or 202-358-4417.

Reservations must be received no later than 5:00 p.m. EST on Wednesday, February 8, 2017. A confirmation email will be sent to acknowledge your requested participation. Companies will be notified on or before Friday, February 10, 2017, of their assigned One-on-One meeting time.

**SUPPLEMENTARY INFORMATION:** This announcement is a Request for Information (RFI) or Sources Sought Notice and is limited to U.S. citizens or residents. This synopsis is for information and planning purposes and does NOT constitute a Request for Proposal (RFP). Requests for a solicitation will not receive a response. No reimbursement will be made for any costs associated with providing information in response to this announcement or any follow-up information requested. No basis for claim against the Government shall arise as a result of a response to this announcement or Government use of any information provided. This announcement does not restrict the Government's right to consider acquisition strategies as deemed appropriate.

The Nav Workshop will allow industry to gain a better understanding of space navigation technologies and techniques that NASA is investing in to better enable space missions in near Earth, cis-Lunar space, and deep space domains. It will also allow industry to better align their navigation research and development efforts with NASA's Architecture Roadmaps now under development. The follow-on one-on-one meetings are intended to provide a forum for industry to share their ideas with NASA, for NASA to understand the scope of space navigation technologies being developed in the commercial sector, and for both NASA and industry to assess areas for potential collaboration regarding navigation technology development efforts that have the potential to serve national needs. NASA is therefore seeking broad information about systems previously flown, systems currently in development—including for other non-NASA missions—and future technologies that are relevant to space navigation and space-based PNT.

Navigation topics to be discussed during the Nav Workshop include:

- Emerging Global Navigation Satellite System (GNSS) applications, including the development and use of GNSS in high altitude applications in the Space Service Volume (SSV), protecting and enhancing the GPS SSV,

developing a multi-GNSS SSV, NASA's current and future missions employing GNSS in the SSV, and GNSS receiver developments within NASA.

- Emerging Navigation technologies, including PNT capabilities envisioned for the Next Generation Broadcast Service (NGBS), innovative timing system developments and techniques such as the Deep Space Atomic Clock (DSAC), optical navigation capabilities and techniques that support rendezvous, landing on objects (near Earth or solar system objects) or docking to vehicles, and navigation & PNT capabilities supporting proximity operations, satellite servicing, and formation flying.

- Other advanced topics to be addressed include the use of optometrics from laser communications systems to support precise PNT solutions, on-board navigation software and filters, such as the Goddard Enhanced Onboard Navigation System (GEONS), and X-ray Navigation capabilities and techniques.

The agenda for the Nav Workshop and Industry Meetings is as follows:

**Tentative Space Navigation Workshop Agenda (Thursday, February 16, 2017)**

8:30 a.m. to 9:30 a.m., Networking Opportunity  
 9:30 a.m. to 12:30 p.m., Introductions & Emerging GNSS Applications  
 12:30 p.m. to 1:30 p.m., Lunch Break  
 1:30 p.m. to 3:30 p.m., Next-Generation Developing Technologies  
 3:30 p.m. to 5:30 p.m., Game-Changing Initiatives  
 5:30 p.m. to 6:00 p.m., Wrap-Up  
 6:00 p.m. to 8:00 p.m., Networking Opportunity

**One-on-One Industry Meetings With NASA (Friday, February 17, 2017)**

9:00 a.m. to 5:00 p.m., 45 minute information-exchange/discussion  
 To RSVP for the February 16 workshop and follow-on One-on-One Meetings scheduled for February 17, please RSVP to James J. Miller by February 8 at [jj.miller@nasa.gov](mailto:jj.miller@nasa.gov) or 202-358-4417.

Attendance limitations: The Navigation Workshop and One-on-One Meeting attendees is strictly limited to four (4) persons per company.

**One-on-One Meeting Description**

To facilitate interactive communication with industry, NASA SCA representatives will be available for One-on-One meetings to exchange ideas on areas of synergy and potential collaboration. NASA will hold One-on-One meetings with industry on Friday, February 17, 2016, from 9:00 a.m. to 5:00 p.m. EST, to discuss Space

Navigation technologies and techniques as related to Nav Workshop presentations. The meetings will be held with interested parties at scheduled times provided in response to the RSVP on a space available basis. NASA will attempt to prioritize non-local companies with One-on-One meeting times.

The One-on-One meetings are intended to be private question-and-answer and information-gathering sessions based on industry developments that align with NASA investments for enhanced autonomous space navigation capabilities. Industry presentation packages are acceptable and will be held in accordance with any proprietary or business confidential markings as annotated on the chart package. Meetings will not exceed 45 minutes in length. One appointment per hour will be scheduled. Additional separate meetings can be scheduled later if demand exceeds capacity.

No recording devices are permitted during the Workshop and One-on-One meetings.

Cheryl E. Parker,  
*Federal Register Liaison Officer.*

**Space Navigation Workshop Registration and Industry "One-on-One" RSVP Form**

1. Full Name:
2. Title:
3. Organization Name:
4. Email address:
5. Phone Number:
6. Company's Primary Point of Contact for interactions with NASA on Navigation Workshop (Please provide full name):
7. Company's Point of Contact Email address:
8. Company's Point of Contact Phone Number:
9. Are you interested in participating in the Space Navigation Workshop "One-on-One"? yes/no
10. If yes, please provide the full Names of the representatives attending (4 or less):
11. Interested and local/Interested and from out of town/Not interested

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**NUCLEAR REGULATORY COMMISSION**

[NRC-2016-0122]

**Program-Specific Guidance About Medical Use Licenses**

**AGENCY:** Nuclear Regulatory Commission.

**ACTION:** Draft NUREG; extension of comment period.

**SUMMARY:** On December 6, 2016, the U.S. Nuclear Regulatory Commission (NRC) solicited comments on draft NUREG–1556, Volume 9, Revision 3, “Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Medical Use Licenses.” The public comment period was originally scheduled to close on February 6, 2017. The NRC has decided to extend the public comment period to allow more time for members of the public to develop and submit their comments.

**DATES:** The due date of comments requested in the document published on December 6, 2016 (81 FR 87978) is extended. Comments should be filed no later than March 31, 2017. Comments received after this date will be considered if it is practical to do so, but the NRC is able to ensure consideration only for comments received on or before this date.

**ADDRESSES:** You may submit comments by any of the following methods (unless this document describes a different method for submitting comments on a specific subject):

- *Federal Rulemaking Web site:* Go to <http://www.regulations.gov> and search for Docket ID NRC–2016–0122. Address questions about NRC dockets to Carol Gallagher; telephone: 301–415–3463; email: [Carol.Gallagher@nrc.gov](mailto:Carol.Gallagher@nrc.gov). For technical questions, contact the individual listed in the **FOR FURTHER INFORMATION CONTACT** section of this document.

- *Mail comments to:* Cindy Bladey, Office of Administration, Mail Stop: OWFN–12–H08, U.S. Nuclear Regulatory Commission, Washington, DC 20555–0001.

For additional direction on accessing information and submitting comments, see “Obtaining Information and Submitting Comments” in the **SUPPLEMENTARY INFORMATION** section of this document.

**FOR FURTHER INFORMATION CONTACT:** Katie Tapp, Office of Nuclear Material Safety and Safeguards; U.S. Nuclear Regulatory Commission, Washington, DC 20555–0001; telephone: 301–415–0236; email: [Katherine.Tapp@nrc.gov](mailto:Katherine.Tapp@nrc.gov).

**SUPPLEMENTARY INFORMATION:**

## I. Obtaining Information and Submitting Comments

### A. Obtaining Information

Please refer to Docket ID NRC–2016–0122 when contacting the NRC about the availability of information regarding this document. You may obtain publicly-available information related to this action by the following methods:

- *Federal Rulemaking Web site:* Go to <http://www.regulations.gov> and search for Docket ID NRC–2016–0122.

- *NRC’s Agencywide Documents Access and Management System (ADAMS):* You may obtain publicly-available documents online in the ADAMS Public Documents collection at <http://www.nrc.gov/reading-rm/adams.html>. To begin the search, select “ADAMS Public Documents” and then select “Begin Web-based ADAMS Search.” For problems with ADAMS, please contact the NRC’s Public Document Room (PDR) reference staff at 1–800–397–4209, 301–415–4737, or by email to [pdr.resource@nrc.gov](mailto:pdr.resource@nrc.gov). The draft NUREG–1556, Volume 9, Revision 3, is available in ADAMS under Accession No. ML16328A214.

- *NRC’s PDR:* You may examine and purchase copies of public documents at the NRC’s PDR, Room O1–F21, One White Flint North, 11555 Rockville Pike, Rockville, Maryland 20852.

The draft NUREG–1556, Volume 9, Revision 3, is also available on the NRC’s public Web site on: (1) The “Consolidated Guidance About Materials Licenses (NUREG–1556)” page at <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/>; and (2) the “Draft NUREG-Series Publications for Comment” page at <http://www.nrc.gov/public-involve/doc-comment.html#nuregs>.

### B. Submitting Comments

Please include Docket ID NRC–2016–0122 in the subject line of your comment submission, in order to ensure that the NRC is able to make your comment submission available to the public in this docket.

The NRC cautions you not to include identifying or contact information that you do not want publicly disclosed in your comment submission. The NRC will post all comment submissions at <http://www.regulations.gov> and enter the comment submissions into ADAMS, but the NRC does not routinely edit comment submissions to remove identifying or contact information.

If you are requesting or aggregating comments from other persons for

submission to the NRC, you should inform these persons that they should not include identifying or contact information that they do not want to be publicly disclosed in their comment submission. Your request should state that the NRC does not routinely edit comment submissions to remove such information before making the comment submissions available to the public or entering the comment submissions into ADAMS.

## II. Discussion

On December 6, 2016, the NRC solicited comments on draft NUREG–1556, Volume 9, Revision 3, “Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Medical Use Licenses.”

The purpose of the document published on December 6, 2016 (81 FR 87978) was to provide the public an opportunity to review and comment on draft NUREG–1556, Volume 9, Revision 3. The NUREG provides guidance to existing medical use of byproduct material licensees and to an applicant that are preparing a medical use of byproduct material license application. The NUREG also provides the NRC criteria for evaluating a license application.

The public comment period was originally scheduled to close on February 6, 2017. The NRC has decided to extend the public comment period on this document until March 31, 2017, to allow more time for members of the public to submit their comments.

Dated at Rockville, Maryland, this 18th day of January 2017.

For the U.S. Nuclear Regulatory Commission.

**Daniel S. Collins,**

*Director, Division of Material Safety, State, Tribal and Rulemaking Programs, Office of Nuclear Material Safety and Safeguards.*

The public comment period was originally scheduled to close on February 6, 2017. The NRC has decided to extend the public comment period on this document until March 31, 2017, to allow more time for members of the public to submit their comments.

Dated at Rockville, Maryland, this 18th day of January 2017.

For the U.S. Nuclear Regulatory Commission.

**Daniel S. Collins,**

*Director, Division of Material Safety, State, Tribal and Rulemaking Programs, Office of Nuclear Material Safety and Safeguards.*

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OFC	MSTR/MSEB	MSTR/MSLB	MSTR/MSLB	MSTR
NAME .....	AMcMurtray for KTapp	AMcMurtray	HGonzalez	DCollins
DATE .....	1/18/17	1/18/17	1/18/17	1/18/17

**Official Record Copy**

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**NUCLEAR REGULATORY COMMISSION**

[NRC-2016-0121]

**Program-Specific Guidance About Special Nuclear Material of Less Than Critical Mass Licenses****AGENCY:** Nuclear Regulatory Commission.**ACTION:** Draft NUREG; request for comment.

**SUMMARY:** The U.S. Nuclear Regulatory Commission (NRC) is revising its licensing guidance for a specific license for receipt, possession, use, and transfer of special nuclear material in quantities that are not sufficient to form a “critical mass.” The NRC is requesting public comment on draft NUREG-1556, Volume 17, Revision 1, “Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Special Nuclear Material of Less Than Critical Mass Licenses.” The document has been updated from the original version to include information on safety culture, security of radioactive materials, protection of sensitive information, and changes in regulatory policies and practices. This document is intended for use by applicants, licensees, and the NRC staff.

**DATES:** Submit comments by March 3, 2017. Comments received after this date will be considered if it is practicable to do so, but the NRC is only able to assure consideration of comments received on or before this date.

**ADDRESSES:** You may submit comments by any of the following methods (unless this document describes a different method for submitting comments on a specific subject):

- *Federal Rulemaking Web site:* Go to <http://www.regulations.gov> and search for Docket ID NRC-2016-0121. Address questions about NRC dockets to Carol Gallagher; telephone: 301-415-3463; email: [Carol.Gallagher@nrc.gov](mailto:Carol.Gallagher@nrc.gov). For technical questions, contact the individual listed in the **FOR FURTHER INFORMATION CONTACT** section of this document.

- *Mail comments to:* Cindy Bladey, Office of Administration, Mail Stop: OWFN-12-H8, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001.

For additional direction on obtaining information and submitting comments, see “Obtaining Information and Submitting Comments” in the **SUPPLEMENTARY INFORMATION** section of this document.

**FOR FURTHER INFORMATION CONTACT:**

Anthony McMurtray, Office of Nuclear Material Safety and Safeguards; U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001; telephone: 301-415-2746; email:

[Anthony.McMurtray@nrc.gov](mailto:Anthony.McMurtray@nrc.gov).

**SUPPLEMENTARY INFORMATION:****I. Obtaining Information and Submitting Comments***A. Obtaining Information*

Please refer to Docket ID NRC-2016-0121 when contacting the NRC about the availability of information regarding this document. You may obtain publicly-available information related to this action by the following methods:

- *Federal Rulemaking Web site:* Go to <http://www.regulations.gov> and search for Docket ID NRC-2016-0121.

- *NRC’s Agencywide Documents Access and Management System (ADAMS):* You may obtain publicly-available documents online in the ADAMS Public Documents collection at <http://www.nrc.gov/reading-rm/adams.html>. To begin the search, select “ADAMS Public Documents” and then select “Begin Web-based ADAMS Search.” For problems with ADAMS, please contact the NRC’s Public Document Room (PDR) reference staff at 1-800-397-4209, 301-415-4737 or by email to [pdr.resource@nrc.gov](mailto:pdr.resource@nrc.gov). The draft NUREG-1556, Volume 17, Revision 1, is available in ADAMS under Accession No. ML17012A346.

- *NRC’s PDR:* You may examine and purchase copies of public documents at the NRC’s PDR, Room O1-F21, One White Flint North, 11555 Rockville Pike, Rockville, Maryland 20852.

*B. Submitting Comments*

Please include Docket ID NRC-2016-0121 in the subject line of your comment submission, in order to ensure that the NRC is able to make your

comment submission available to the public in this docket.

The NRC cautions you not to include identifying or contact information that you do not want publicly disclosed in your comment submission. The NRC will post all comment submissions at <http://www.regulations.gov> as well as enter the comment submissions into ADAMS, and the NRC does not routinely edit comment submissions to remove identifying or contact information.

If you are requesting or aggregating comments from other persons for submission to the NRC, then you should inform those persons not to include identifying or contact information that

they do not want to be publicly disclosed in their comment submission. Your request should state that the NRC does not routinely edit comment submissions to remove such information before making the comment submissions available to the public or entering the comment submissions into ADAMS.

**II. Further Information**

This NUREG provides guidance to existing licensees that receive, possess, use, and transfer special nuclear material of less than critical mass, and to applicants preparing license applications to receive, possess, use, and transfer such materials. This NUREG also provides NRC reviewers criteria for evaluating such a license application. The purpose of this notice is to provide the public an opportunity to review and comment on draft NUREG-1556, Volume 17, Revision 1, “Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Special Nuclear Material of Less Than Critical Mass Licenses.” These comments will be considered in the final version or subsequent revisions.

Dated at Rockville, Maryland, this 18th day of January, 2017.

For the U.S. Nuclear Regulatory Commission.

**Daniel S. Collins,**

*Director, Division of Material Safety, State, Tribal and Rulemaking Programs, Office of Nuclear Material Safety and Safeguards.*

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