

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF WASTE, AIR, RADIATION AND REMEDIATION
BUREAU OF RADIATION PROTECTION
HARRISBURG, PA 17101

July 05, 2016

BRP INFORMATION NOTICE 2016-02

SECURITY ADVISORY FOR LICENSEES THAT
POSSESS, USE, SHIP, OR RECEIVE RISK-
SIGNIFICANT RADIOACTIVE MATERIALS NEAR
PHILADELPHIA, PA

ADDRESSEES

All Pennsylvania Department of Environmental Protection (DEP) Increased Control (Part 37) Licensees and Specific Licensees of Category 1 and Category 2 Radiation Sources within a 50-mile radius around Philadelphia.

PURPOSE

The DEP is issuing this Information Notice (IN) to bring to the attention of PA licensees a security advisory from the U.S. Nuclear Regulatory Commission (NRC). The NRC has designated the 2016 Democratic National Convention (DNC) in Philadelphia, July 25-28, 2016 as a National Special Security Event (NSSE). See enclosed NRC NSSE.

BACKGROUND

As a prudent precautionary measure, the NRC is requesting selected licensees who may possess certain risk-significant radioactive materials to maintain heightened vigilance for potential security threats during the period surrounding the 2016 DNC event. It should be noted to date, there has been no specific, credible threat toward any licensee of radioactive materials during this period.

DISCUSSION

On the days of the 2016 DNC event, licensees are asked to consider implementing certain security measures to avoid receiving and shipping certain radionuclides at 'quantities of concern.' See Table 1 in the enclosed NRC NSSE. If a licensee determines that such a shipment must proceed through the area of concern during this period, the Department requests that the licensee notify the Bureau of Radiation Protection or the Pennsylvania Emergency Management Agency (PEMA) of such shipment plans as soon as possible. The Department will coordinate with the licensee and NRC regarding the possible implementation of supplemental security measures for such shipments.

For questions regarding this BRP Information Notice, please review the enclosed NRC NSSE document "Security Advisory for Licensees that Possess, Use, Ship or Receive Risk-Significant Radioactive Materials."

CONTACT

This IN requires no specific action or written response. If you have any questions about the information in this notice, please contact the Radiation Control Division at (717) 787-3720.

Issued By:
David J. Allard, CHP, Director
Bureau of Radiation Protection

Enclosure



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**UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001**

June 28, 2016

**SECURITY ADVISORY FOR LICENSEES
(NRC AND AGREEMENT STATES)
THAT POSSESS, USE, SHIP, OR RECEIVE
RISK-SIGNIFICANT RADIOACTIVE MATERIALS**

SA 2016-09

**SUBJECT: NATIONAL SPECIAL SECURITY EVENT FOR THE 2016 DEMOCRATIC
NATIONAL CONVENTION**

The U.S. Nuclear Regulatory Commission (NRC) and the U.S. Department of Homeland Security (DHS) are working together to enhance the ability to prevent, protect against, prepare for, and, if necessary, respond to and recover from terrorist attacks during periods of heightened alert.

The Secretary of DHS has designated the 2016 Democratic National Convention, which will be held in Philadelphia, PA, on July 25–28, 2016, as a national special security event (NSSE). To date, the NRC has received no information concerning a specific, credible threat toward any U.S. nuclear facility or licensed material during this period.

The NRC is advising affected licensees to consider implementing the recommendations of this advisory, which incorporates and supplements those advisories previously issued to materials licensees by the NRC. This advisory also applies to all affected licensees that possess, use, ship, or receive quantities of radioactive material, including sealed radioactive sources, equal to or exceeding the minimum levels specified for those radionuclides listed in Table 1 of this advisory (Enclosure 1).

As a prudent precautionary measure, the NRC is requesting that selected NRC and Agreement State licensees that possess certain risk-significant radioactive materials and are located within an approximate 80-kilometer (50-mile) radius of the NSSE (area of concern) maintain heightened vigilance for potential security threats during the time period surrounding the 2016 Democratic National Convention. The NRC recommends that licensees consider implementing elevated protective measures as outlined in Regulatory Issue Summary (RIS) 2002-12C, Revision 1, "Decommissioning Power Reactors and Independent Spent Fuel Storage Installations Using Wet Storage—NRC Threat Advisory and Protective Measures System"; RIS 2002-12L, Revision 1, "Panoramic and Underwater Irradiators—NRC Threat Advisory and Protective Measures System"; and RIS 2002-12M, Revision 1, "Manufacturing and Distribution Licensees—NRC Threat Advisory and Protective Measures System," as appropriate. Licensees that find these guidance documents not applicable to their facilities should consider implementing the security measures in Enclosure 2.

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During the time period surrounding the 2016 Democratic National Convention, licensees are asked to avoid receiving, shipping, or transporting the radionuclides listed in Table 1 of Enclosure 1. If a licensee determines that such a shipment or transport must proceed through the area of concern during the specified time period, the NRC requests that the licensee notify the NRC Headquarters Operations Center in advance of such shipment plans as soon as possible. The NRC will inform DHS of any proposed shipments to ensure coordination of these activities and avoid conflict. Coordination of possible supplemental security measures may involve the licensee, the NRC, DHS, and affected States.

For shipments of radioactive material 100 times the minimum levels specified for the radionuclides listed in Table 1 of Enclosure 1, consider implementing elevated protective measures as outlined in RIS 2005-12, Revision 1, "Transportation of Radioactive Material, Quantities of Concern—NRC Threat Advisory and Protective Measures System."

To ensure the security of high-risk sources, please treat this advisory as sensitive information and share it only with authorized personnel who have a need to know. This information should not be released to the public.

The NRC will continue to monitor threat-related reporting and other relevant developments and will coordinate its assessment activities with other Federal and State agencies for any indication of a threat to licensees.

Any information regarding threats or suspicious activities should be reported promptly. Licensees are requested to contact each of the listed organizations or agencies in the following order:

- local Federal Aviation Administration contact (if aircraft incident)
- local law enforcement agency
- local Federal Bureau of Investigation field office
- Agreement State Official (for Agreement State licensees)
- NRC Headquarters Operations Center at 301-816-5100

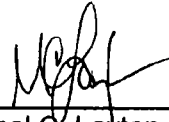
If additional information is received concerning site-specific or general threats involving radioactive material, the NRC may recommend that additional site-specific actions be taken, provide guidance specific to any new information received, advise individual licensees to further coordinate on-site activities with off-site support agencies, or otherwise instruct licensees to implement elevated protective measures and provisions described in the NRC Threat Advisory and Protective Measures System, as appropriate. If you have any question concerning this advisory, contact the technical point of contact below.

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Paperwork Reduction Act Statement: This security advisory does not contain information collections and, therefore, is not subject to the requirements of the Paperwork Reduction Act of 1995 (Title 44 *United States Code* 3501, *et seq.*).

This security advisory expires on July 29, 2016.

Approved by



Michael C. Layton, Director
Division of Security Operations
Office of Nuclear Security
and Incident Response

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301-287-3681
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Enclosures:

1. Table 1: Radionuclides of Concern
2. Security Advisory Recommended Actions

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Table 1: Radionuclides of Concern

Below are the radionuclides of concern and their quantities mentioned in the previous section of this document.

Radionuclide	Quantity of Concern Terabecquerels (TBq)	Quantity of Concern Curie (Ci)
Am-241	0.6	16.2
Am-241/Be	0.6	16.2
Cf-252	0.2	5.40
Cm-244	0.5	13.5
Co-60	0.3	8.10
Cs-137	1	27.0
Gd-153	10	270
Ir-192	0.8	21.6
Pm-147	400	10,800
Pu-238	0.6	16.2
Pu-239/Be	0.6	16.2
Ra-226	0.4	10.8
Se-75	2	54.0
Sr-90 (Y-90)	10	270
Tm-170	200	5,400
Yb-169	3	81.0

Note: The regulatory standard values to be used for this security advisory are given in TBq. Ci values are provided for convenience and are rounded after conversion.

This security advisory applies for sources of radioactive material as follows:

- Any single source that meets or exceeds the quantity of concern in Table 1.
- Multiple collocated sources of the same radionuclide when the combined quantity aggregate activity meets or exceeds the quantity of concern in Table 1.

Enclosure 1

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- If several radionuclides are present, the sum of the fractions of the activity of each radionuclide must be determined. If the calculation of the ratio, using the following equation, is greater than or equal to 1.0, then the facility or activity meets or exceeds the quantity of concern in Table 1. Using the equation below, calculate the ratio by inserting the actual activity of each radionuclide as the numerator and the corresponding activity limit in Table 1 as the denominator. Ensure the numerator and the denominator are in terabecquerels.

R_1 = the aggregate activity for radionuclide number 1

R_2 = the aggregate activity for radionuclide number 2

$R_3, R_4, R_5, \dots, R_n$ (where n is the total number of radionuclides in the source(s))

AR_1 = activity limit for radionuclide number 1

AR_2 = activity limit for radionuclide number 2

$AR_3, AR_4, AR_5, \dots, AR_n$

$$\frac{R_1}{AR_1} + \frac{R_2}{AR_2} + \frac{R_3}{AR_3} + \frac{R_n}{AR_n} \geq 1$$

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Security Advisory Recommended Actions

The following recommended actions have significant value in increasing security of radioactive sources and protecting against threats in periods of heightened alert. The U.S. Nuclear Regulatory Commission (NRC) and Agreement State licensees that have in their possession quantities of radioactive material equal to or exceeding the minimum levels specified for the radionuclides listed in Table 1 of Enclosure 1 to this advisory are advised to provide increased security and control over that material. These recommended actions continue to prevent unauthorized access and to limit the potential for theft, diversion, or sabotage of the material. The NRC notes that these recommended security advisory actions do not supersede any applicable NRC regulations or orders or U.S. Department of Transportation requirements found in Title 49 of the *Code of Federal Regulations*, "Transportation."

The NRC is advising licensees to consider implementing the following specific steps:

1. For facilities and all areas where the radioactive materials are used and stored:
 - a. Continue to maintain inventory of material in these areas and tighten the controls on movement of material into and out of the established use and storage areas.
 - b. Consider implementing further controls, such as a two-person (line-of-sight) rule for all personnel in security zones if advised of a potential insider threat at a particular facility.
2. Be extra sensitive to the presence of any suspicious person or package observed in or transported to or from the vicinity of the facility.
3. Be cautious about granting vehicles access into, or close to, the facility or near areas where the radioactive materials are used or stored.
4. Consider eliminating unnecessary stops en route to temporary job sites.
5. Avoid receiving or shipping radioactive material equal to or exceeding the minimum levels specified for the radionuclides listed in Table 1 of Enclosure 1 during this period.