



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

April 12, 2016

Ms. Lynne Fairbent  
Senior Manager for Government Relations  
American Association of Physicists  
in Medicine  
One Physics Ellipse  
College Park, MD 20740-3846

**SUBJECT: NOTIFICATION OF UPCOMING DISTRIBUTION OF MATERIALS CYBER  
SECURITY QUESTIONNAIRE**

Dear Ms. Fairbent:

In the near future, the U.S. Nuclear Regulatory Commission (NRC) will be distributing a voluntary questionnaire to all NRC and Agreement State byproduct materials licensees that possess Category 1 or Category 2 quantities of radioactive materials (as defined in Title 10 of Code of Federal Regulations, Part 37). Licensees will receive the questionnaire by e-mail from [MaterialsCyber.Resource@nrc.gov](mailto:MaterialsCyber.Resource@nrc.gov). In the e-mail, licensees will be provided guidance on what information should not be included in their response and instructions on how to submit responses to the questionnaire. The NRC is requesting that responses to these questionnaires be submitted within 30 days from receipt of the e-mail.

The NRC is notifying you of distribution of the questionnaire and would appreciate your assistance in encouraging the members of your organization to complete this questionnaire. The responses we receive will assist the NRC in better understanding the potential vulnerabilities and risks associated with cyber threats and will form the basis for any recommendations and possible actions for consideration.

The questionnaire covers, but is not limited to, the following areas:

- The use of devices with software-based control systems, such as irradiators and stereotactic radiosurgery systems.
- The use of access control or intrusion detection systems that support the physical security of facilities.
- The use of computer systems that licensees use to maintain their source inventories.
- The use of digital technology used to support response communications/coordination.

L. Fairbent

2

A copy of the questionnaire to be distributed is enclosed.

If you have any questions regarding this correspondence, please contact me at (301) 415-3340 or the individual named below:

POINT OF CONTACT: Irene Wu  
TELEPHONE: (301) 415-1951

E-MAIL: [Irene.Wu@nrc.gov](mailto:Irene.Wu@nrc.gov)

**/RA/**

Daniel S. Collins, Director  
Division of Material Safety, State, Tribal  
and Rulemaking Programs  
Office of Nuclear Material Safety  
and Safeguards

Enclosure:  
Materials Cyber Security Questionnaire

L. Fairbent

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Office of Nuclear Material Safety  
and Safeguards

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Materials Cyber Security Questionnaire

cc: Gary Purdy/NSIR

IDENTICAL LETTERS SENT TO: See Attached

**ML16074A293**

OFFICE	MSTR/SMPB	MSTR/SMPB	MSTR
NAME	IWu	SAtack	DCollins
DATE	3/18/16	3/25/16	4/12/16

**OFFICIAL RECORD COPY**

Zoubir Ouhib MS FACR DABR  
American Brachytherapy Society  
12100 Sunset Hills Road  
Suite 130  
Reston, VA 20190

Ms. Cindy Tomlinson, MPP  
American Society of Radiation Oncology  
8280 Willow Oaks Corporate Drive  
Suite 500  
Fairfax, VA 22031

Ms. Amy Bereson, Executive Director  
American Society for Nondestructive Testing  
PO Box 28518  
1711 Arlingate Lane  
Columbus, OH 43328-0518

Mr. Nima Ashkeboussi  
Nuclear Energy Institute  
1201 F St. NW  
Suite 1100  
Washington, DC 20004-1218

Mr. Paul Gray, Chairman  
International Source Suppliers and Producers Association  
447 March Road  
Ottawa, ON K2K 1X8  
CANADA

Ms. Nancy Kirner, President  
Health Physics Society  
17B Cassal Road  
Winthrop, WA 98862-9134



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American Brachytherapy Society  
12100 Sunset Hills Road  
Suite 130  
Reston, VA 20190

**SUBJECT: NOTIFICATION OF UPCOMING DISTRIBUTION OF MATERIALS CYBER  
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Z. Ouhib

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Ms. Cindy Tomlinson, MPP  
American Society of Radiation Oncology  
8280 Willow Oaks Corporate Drive  
Suite 500  
Fairfax, VA 22031

**SUBJECT: NOTIFICATION OF UPCOMING DISTRIBUTION OF MATERIALS CYBER  
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Dear Ms. Tomlinson:

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C. Tomlinson

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April 12, 2016

Ms. Amy Bereson, Executive Director  
American Society for Nondestructive Testing  
P.O. Box 28518  
1711 Arlingate Lane  
Columbus, OH 43328-0518

**SUBJECT: NOTIFICATION OF UPCOMING DISTRIBUTION OF MATERIALS CYBER  
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Dear Ms. Bereson:

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A. Bereson

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Mr. Nima Ashkeboussi  
Nuclear Energy Institute  
1201 F St. NW  
Suite 1100  
Washington, DC 20004-1218

**SUBJECT: NOTIFICATION OF UPCOMING DISTRIBUTION OF MATERIALS CYBER  
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Dear Mr. Ashkeboussi:

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N. Ashkeboussi

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Mr. Paul Gray, Chairman  
International Source Suppliers and Producers Association  
447 March Road  
Ottawa, ON K2K 1X8  
CANADA

**SUBJECT: NOTIFICATION OF UPCOMING DISTRIBUTION OF MATERIALS CYBER  
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Dear Mr. Gray:

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P. Gray

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Ms. Nancy Kirner, President  
Health Physics Society  
17B Cassal Road  
Winthrop, WA 98862-9134

**SUBJECT: NOTIFICATION OF UPCOMING DISTRIBUTION OF MATERIALS CYBER  
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Dear Ms. Kirner:

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N. Kimer

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Submit responses to [MaterialsCyber.resource@nrc.gov](mailto:MaterialsCyber.resource@nrc.gov).

### **Questionnaire on Cyber Security at Byproduct Materials Licensees**

In order to aid the NRC in evaluating cyber security at byproduct materials licensees, it would be helpful if you responded to the following questions. Responses to these questions are not required, and no adverse action will result from not responding to this survey, or from any responses to this survey. Please do not include any Safeguards Information or other controlled information in your responses.

Date:

Name:

Company Name:

License Number(s):

Phone Number:

Email Address:

License Category (select one): Academic, Disposer, Distributor, Fuel Cycle Facility, Irradiator, Medical, Power Reactor, Radiography, Research Reactor, Research and Development, Waste Broker, Well Logging, Other

1. Digital/microprocessor-based systems and devices that support the physical security of the licensee's facilities. This includes access control systems, physical intrusion detection and alarm systems, video camera monitoring systems, digital video recorders, door alarms, motion sensors, keycard readers, biometric scanners, etc:

- Does the facility have a digital access monitoring and control system? [Yes]/[No]
- Does the facility have a digital intrusion detection/alarm system? [Yes]/[No]
- Does the facility have a digital video monitoring/surveillance system? [Yes]/[No]
- Are any such systems connected to a facility local area network? [Yes]/[No]
- Is the facility local area network connected/bridged into any other network? [Yes]/[No]
- Can any of these systems be remotely accessed by the vendor? [Yes]/[No]
- Can any of these computers be remotely accessed by the IT organization? [Yes]/[No]
- Are any of these systems remotely monitored for incident response? [Yes]/[No]
- Do any of these systems employ wireless technology? [Yes]/[No]
- Is the maintenance/support of any of these systems outsourced? [Yes]/[No]
- Is portable media used to move data/files to or from any of these systems? [Yes]/[No]
- If you would like to elaborate on any of your above answers, please use the space below.

2. Devices/equipment with software-based control, operation, and automation features, such as panoramic irradiators, gamma knives, and fixed radiography:
- Are any of these devices connected to a facility local area network? [Yes]/[No]
  - Is the facility local area network connected/bridged into any other network? [Yes]/[No]
  - Can any of these devices be remotely accessed by the vendor? [Yes]/[No]
  - Can any of these computers be remotely accessed by the IT organization? [Yes]/[No]
  - Are any of these devices remotely monitored for incident response? [Yes]/[No]
  - Do any of these devices employ wireless technology? [Yes]/[No]
  - Is maintenance/support of any of these devices outsourced? [Yes]/[No]
  - Is portable media used to move data/files to or from any of these devices? [Yes]/[No]
  - Are periodic/occasional updates made to the software of any of these devices? [Yes]/[No]
  - If you would like to elaborate on any of your above answers, please use the space below.
3. Computers/systems used to maintain source inventories, audit data, and records necessary for compliance with security requirements and regulations:
- Are any of these computers connected to a facility local area network? [Yes]/[No]
  - Is the facility local area network connected/bridged into any other network? [Yes]/[No]
  - Can any of these computers be remotely accessed by the vendor? [Yes]/[No]
  - Can any of these computers be remotely accessed by the IT organization? [Yes]/[No]
  - Do any of these computers employ wireless technology? [Yes]/[No]
  - Is maintenance/support of any of these computers outsourced? [Yes]/[No]
  - Is portable media used to move data/files to or from any of these computers? [Yes]/[No]
  - Are periodic/occasional updates made to the software on any of these computers? [Yes]/[No]
  - Is any form of encryption used to protect sensitive data on these computers? [Yes]/[No]
  - Are these computers given the latest security patches on a regular basis? [Yes]/[No]
  - Do any of these computers support email or web browsing functions? [Yes]/[No]
  - If you would like to elaborate on any of your above answers, please use the space below.

4. Digital technology used to support incident response communications/coordination such as a digital packet radio system, digital repeater stations, digital trunk radio, etc:
- Are all such systems and associated components tested on a periodic basis?  
[Yes]/[No]
  - Are all portable components of such systems periodically inspected for tampering?  
[Yes]/[No]
  - Are all stationary components of such systems located in physically secure areas?  
[Yes]/[No]
  - Have any radio system components received software upgrades from the vendor?  
[Yes]/[No]
  - Is radio system provisioning (changes) performed by licensee personnel? [Yes]/[No]
  - If you would like to elaborate on any of your above answers, please use the space below.