

UNITED STATES  
NUCLEAR REGULATORY COMMISSION

In the Matter of )  
 )  
CERTAIN PANORAMIC AND UNDERWATER )  
IRRADIATORS AUTHORIZED TO POSSESS )  
GREATER THAN 370 TERABECQUERELS )  
(10,000 CURIES) BYPRODUCT MATERIAL )  
IN THE FORM OF SEALED SOURCES )

EA-08-033

**ORDER IMPOSING COMPENSATORY MEASURES  
(EFFECTIVE IMMEDIATELY)**

I

The Licensees identified in Attachment 1 to this Order hold licenses issued in accordance with the Atomic Energy Act of 1954 and 10 CFR Part 36 or comparable Agreement State regulations by the U.S. Nuclear Regulatory Commission (NRC or Commission) or an Agreement State authorizing possession of greater than 370 terabecquerels (10,000 curies) of byproduct material in the form of sealed sources either in panoramic irradiators that have dry or wet storage of the sealed sources or in underwater irradiators in which both the source and the product being irradiated are under water. Commission regulations at 10 CFR 20.1801 or equivalent Agreement State regulations, require Licensees to secure, from unauthorized removal or access, licensed materials that are stored in controlled or unrestricted areas. Commission regulations at 10 CFR 20.1802 or equivalent Agreement States regulations,

**Warning:** Violation of Section 147 of the Atomic Energy Act of 1954, "Safeguards Information" is subject to Civil or Criminal penalties.

Document transmitted herewith contains Safeguards Information. When separated from enclosures, this document is Decontrolled.

Enclosure 1

require Licensees to control and maintain constant surveillance of licensed material that is in a controlled or unrestricted area and that is not in storage.

## II

On September 11, 2001, terrorists simultaneously attacked targets in New York, N.Y., and Washington, D.C., utilizing large commercial aircraft as weapons. In response to the attacks and intelligence information subsequently obtained, the Commission issued a number of Safeguards and Threat Advisories to its Licensees in order to strengthen Licensees' capabilities and readiness to respond to a potential attack on a nuclear facility. The Commission has also communicated with other Federal, State and local government agencies and industry representatives to discuss and evaluate the current threat environment in order to assess the adequacy of security measures at licensed facilities. In addition, the Commission has been conducting a review of its safeguards and security programs and requirements.

As a result of its consideration of current safeguards and license requirements, as well as a review of information provided by the intelligence community, the Commission has determined that certain compensatory measures are required to be implemented by Licensees as prudent measures to address the current threat environment. Therefore, the Commission is imposing the requirements, as set forth in Attachment 2<sup>1</sup> on all Licensees identified in Attachment 1<sup>2</sup> of this Order who currently possess, or have near term plans to possess, greater

---

<sup>1</sup> Attachment 2 contains some requirements that are SAFEGUARDS INFORMATION, and cannot be released to the public. The remainder of the requirements contained in Attachment 2 that are not SAFEGUARDS INFORMATION are being released to the public.

<sup>2</sup> Attachment 1 contains sensitive information and will not be released to the public.

than 370 terabecquerels (10,000 curies) of byproduct material in the form of sealed sources.

These requirements, which supplement existing regulatory requirements, will provide the Commission with reasonable assurance that the public health and safety and common defense and security continue to be adequately protected in the current threat environment.

Attachment 3 of this Order contains the requirements for fingerprinting and criminal history record checks for individuals when the licensee's reviewing official is determining access to Safeguards Information or unescorted access to the panoramic or underwater irradiator sealed sources. These requirements will remain in effect until the Commission determines otherwise.

The Commission concludes that the security measures must be embodied in an Order consistent with the established regulatory framework. Some of the security measures contained in Attachment 2 of this Order contain Safeguards Information and will not be released to the public. The Commission has broad statutory authority to protect and prohibit the unauthorized disclosure of Safeguards Information. Section 147 of the Atomic Energy Act of 1954, as amended, grants the Commission explicit authority to "issue such orders, as necessary to prohibit the unauthorized disclosure of safeguards information . . . ." This authority extends to information concerning special nuclear material, source material, and byproduct material, as well as production and utilization facilities. Licensees must ensure proper handling and protection of Safeguards Information to avoid unauthorized disclosure in accordance with the specific requirements for the protection of Safeguards Information contained in Attachment 2 to the NRC's "Order Imposing Requirements for the Protection of Certain Safeguards Information" (EA-07-050). The Commission hereby provides notice that it intends to treat all violations of the requirements contained in Attachment 2 to the NRC's "Order Imposing Requirements for the Protection of Certain Safeguards Information" (EA-07-050), applicable to the handling and unauthorized disclosure of Safeguards Information as serious breaches of adequate protection of the public health and safety and the common defense and security of the United States.

Access to Safeguards Information is limited to those persons who have established a need-to-know the information, are considered to be trustworthy and reliable, have been fingerprinted and undergone a Federal Bureau of Investigation (FBI) identification and criminal history records check in accordance with the NRC's "Order Imposing Fingerprinting and Criminal History Records Check Requirements for Access to Safeguards Information" (EA-07-051). A need-to-know means a determination by a person having responsibility for protecting Safeguards Information that a proposed recipient's access to Safeguards Information is necessary in the performance of official, contractual, or licensee duties of employment. Individuals who have been fingerprinted and granted access to Safeguards Information by the reviewing official under the NRC's "Order Imposing Fingerprinting and Criminal History Records Check Requirements for Access to Safeguards Information" (EA-07-051) do not need to be fingerprinted again for purposes of being considered for unescorted access.

This Order also requires that a reviewing official must consider the results of the Federal Bureau of Investigations criminal history records check in conjunctions with other applicable requirements to determine whether an individual may be granted or allowed continued unescorted access. The reviewing official may be one that has previously been approved by NRC in accordance with the "Order Imposing Fingerprinting and Criminal History Records Check Requirements for Access to Safeguards Information" (EA-07-051) dated March 8, 2007. Licensees may nominate additional reviewing officials for making unescorted access determinations in accordance with NRC Orders EA-07-051. The nominated reviewing officials must have access to Safeguards Information or require unescorted access to the radioactive material as part of their job duties.

In order to provide assurance that the Licensees are implementing prudent measures to achieve a consistent level of protection to address the current threat environment, all Licensees who hold licenses issued by the U.S. Nuclear Regulatory Commission or an Agreement State authorizing possession greater than 370 terabecquerels (10,000 curies) of byproduct material in

the form of sealed sources in a panoramic or underwater irradiator shall implement the requirements identified in Attachments 2 and 3 to this Order. In addition, pursuant to 10 CFR 2.202, I find that in light of the common defense and security matters identified above, which warrant the issuance of this Order, the public health, safety and interest require that this Order be effective immediately.

### III

Accordingly, pursuant to Sections 81, 147, 149, 161b, 161i, 161o, 182 and 186 of the Atomic Energy Act of 1954, as amended, and the Commission's regulations in 10 CFR 2.202, 10 CFR Part 30, Part 36, and Part 73, IT IS HEREBY ORDERED, **EFFECTIVE IMMEDIATELY**, THAT ALL LICENSEES IDENTIFIED IN ATTACHMENT 1 TO THIS ORDER SHALL COMPLY WITH THE REQUIREMENTS OF THIS ORDER AS FOLLOWS:

- A. The Licensee shall, notwithstanding the provisions of any Commission or Agreement State regulation or license to the contrary, comply with the requirements described in Attachments 2 and 3 to this Order. The licensee shall immediately start implementation of the requirements in Attachments 2 and 3 to the Order and shall complete implementation by **December 3, 2008**, or the first day that greater than 370 terabecquerels (10,000 curies) of byproduct material in the form of sealed sources is possessed, which ever is later.
  
- B. 1. The Licensee shall, within **twenty (20) days** of the date of this Order, notify the Commission, (1) if it is unable to comply with any of the requirements described in Attachments 2 or 3, (2) if compliance with any of the requirements is unnecessary in its specific circumstances, or (3) if implementation of any of the requirements would cause the Licensee to

be in violation of the provisions of any Commission or Agreement State regulation or its license. The notification shall provide the Licensee's justification for seeking relief from or variation of any specific requirement.

2. If the Licensee considers that implementation of any of the requirements described in Attachments 2 or 3 to this Order would adversely impact safe operation of the facility, the Licensee must notify the Commission, within **twenty (20) days** of this Order, of the adverse safety impact, the basis for its determination that the requirement has an adverse safety impact, and either a proposal for achieving the same objectives specified in the Attachments 2 or 3 requirement in question, or a schedule for modifying the facility to address the adverse safety condition. If neither approach is appropriate, the Licensee must supplement its response to Condition B.1 of this Order to identify the condition as a requirement with which it cannot comply, with attendant justifications as required in Condition B.1.
- C.
1. In accordance with the NRC's "Order Imposing Fingerprinting and Criminal History Records Check Requirements for Access to Safeguards Information" (EA-07-051) issued on March 8, 2007, only the NRC-approved reviewing official shall review results from an FBI criminal history records check. The licensee may use a reviewing official previously approved by the NRC as its reviewing official for determining access to Safeguards Information or the licensee may nominate another individual specifically for making unescorted access to radioactive material determinations, using the process described in EA-07-051. The reviewing official must have access to Safeguards Information or require unescorted access to the radioactive material as part of their job duties. The reviewing official shall determine whether an individual may have, or continue to

have, unescorted access to the panoramic or underwater irradiator sealed sources that equal or exceed 370 Terabecquerels (10,000 curies). Fingerprinting and the FBI identification and criminal history records check are not required for individuals exempted from fingerprinting requirements under 10 CFR 73.61 [72 Fed. Reg. 4945 (February 2, 2007)]. In addition, individuals who have a favorably decided U.S. Government criminal history records check within the last five (5) years, or have an active federal security clearance (provided in each case that the appropriate documentation is made available to the Licensee's reviewing official), have satisfied the Energy Policy of 2005 fingerprinting requirement and need not be fingerprinted again for purposes of being considered for unescorted access.

2. No person may have access to Safeguards Information or unescorted access to the panoramic or underwater irradiator sealed sources if the NRC has determined, in accordance with its administrative review process based on fingerprinting and an FBI identification and criminal history records check, either that the person may not have access to Safeguards Information or that the person may not have unescorted access to a utilization facility or radioactive material subject to regulation by the NRC.
- D. Fingerprints shall be submitted and reviewed in accordance with the procedures described in Attachment 3 to this Order. Individuals who have been fingerprinted and granted access to Safeguards Information by the reviewing official under Order EA-07-051 do not need to be fingerprinted again for purposes of being considered for unescorted access.

- E. The Licensee may allow any individual who currently has unescorted access to the panoramic or underwater irradiator sealed sources, in accordance with this Order, to continue to have unescorted access during the pendency of a decision by the reviewing official (based on fingerprinting, an FBI criminal history records check and a trustworthiness and reliability determination) that the individual may continue to have unescorted access to the panoramic or underwater irradiator sealed sources. The licensee shall complete implementation of the requirements of Attachments 2 and 3 to this Order by **December 3, 2008**.
- F. 1. The Licensee shall, **within twenty (20) days** of the date of this Order, submit to the Commission a schedule for completion of each requirement described in Attachments 2 and 3.
2. The Licensee shall report to the Commission when they have achieved full compliance with the requirements described in Attachments 2 and 3.
- G. Notwithstanding any provisions of the Commission's or Agreement State's regulations to the contrary, all measures implemented or actions taken in response to this Order shall be maintained until the Commission determines otherwise.

Licensee response to Conditions B.1, B.2, F.1, and F.2 above shall be submitted to the Director, Office of Federal and State Materials and Environmental Management Programs, U.S. Nuclear Regulatory Commission, Washington, DC 20555. In addition, Licensee submittals that contain specific physical protection or security information considered to be Safeguards Information shall be put in a separate enclosure or attachment and, marked as "SAFEGUARDS INFORMATION - MODIFIED HANDLING" and mailed (no electronic transmittals i.e., no e-mail

or FAX) to the NRC in accordance with Attachment 2 to the NRC's "Order Imposing Requirements for the Protection of Certain Safeguards Information" (EA-07-050).

The Director, Office of Federal and State Materials and Environmental Management Programs, may, in writing, relax or rescind any of the above conditions upon demonstration by the Licensee of good cause.

#### IV

In accordance with 10 CFR 2.202, the Licensee must, and any other person adversely affected by this Order may, submit an answer to this Order within twenty (20) days of the date of this Order. In addition, the Licensee and any other person adversely affected by this Order may request a hearing of this Order within twenty (20) days of the date of the Order. Where good cause is shown, consideration will be given to extending the time to request a hearing. A request for extension of time must be made, in writing, to the Director, Office of Federal and State Materials and Environmental Management Programs, U.S. Nuclear Regulatory Commission, Washington, DC 20555, and include a statement of good cause for the extension.

The answer may consent to this Order. If the answer includes a request for a hearing, it shall, under oath or affirmation, specifically set forth the matters of fact and law on which the Licensee relies and the reasons as to why the Order should not have been issued. If a person other than the Licensee requests a hearing, that person shall set forth with particularity the manner in which his interest is adversely affected by this Order and shall address the criteria set forth in 10 CFR 2.309(d).

All documents filed in NRC adjudicatory proceedings, including a request for hearing, a petition for leave to intervene, any motion or other document filed in the proceeding prior to the submission of a request for hearing or petition to intervene, and documents filed by interested governmental entities participating under 10 CFR 2.315(c), must be filed in accordance with the

NRC E-Filing rule, which the NRC promulgated in August 2007, 72 Fed. Reg. 49139 (Aug. 28, 2007) and codified in pertinent part at 10 CFR Part 2, Subpart B. The E-Filing process requires participants to submit and serve all adjudicatory documents over the internet, or in some cases to mail copies on electronic storage media. Participants may not submit paper copies of their filings unless they seek a waiver in accordance with the procedures described below.

To comply with the procedural requirements associated with E-Filing, at least ten (10) days prior to the filing deadline the requestor must contact the Office of the Secretary by e-mail at [HEARINGDOCKET@NRC.GOV](mailto:HEARINGDOCKET@NRC.GOV), or by calling (301) 415-1677, to request (1) a digital ID certificate, which allows the participant (or its counsel or representative) to digitally sign documents and access the E-Submittal server for any NRC proceeding in which it is participating; and/or (2) creation of an electronic docket for the proceeding (even in instances when the requestor (or its counsel or representative) already holds an NRC-issued digital ID certificate). Each requestor will need to download the Workplace Forms Viewer™ to access the Electronic Information Exchange (EIE), a component of the E-Filing system. The Workplace Forms Viewer™ is free and is available at <http://www.nrc.gov/site-help/e-submittals/install-viewer.html>. Information about applying for a digital ID certificate also is available on NRC's public website at <http://www.nrc.gov/site-help/e-submittals/apply-certificates.html>.

Once a requestor has obtained a digital ID certificate, had a docket created, and downloaded the EIE viewer, it can then submit a request for a hearing through EIE. Submissions should be in Portable Document Format (PDF) in accordance with NRC guidance available on the NRC public website at <http://www.nrc.gov/site-help/e-submittals.html>. A filing is considered complete at the time the filer submits its document through EIE. To be timely, electronic filings must be submitted to the EIE system no later than 11:59 p.m. Eastern Time on the due date. Upon receipt of a transmission, the E-Filing system time-stamps the document and sends the submitter an e-mail notice confirming receipt of the document. The EIE system also distributes an e-mail notice that provides access to the document to the NRC Office of the

General Counsel and any others who have advised the Office of the Secretary that they wish to participate in the proceeding, so that the filer need not serve the document on those participants separately. Therefore, any others who wish to participate in the proceeding (or their counsel or representative) must apply for and receive a digital ID certificate before a hearing request is filed so that they may obtain access to the document via the E-Filing system.

A person filing electronically may seek assistance through the "Contact Us" link located on the NRC website at <http://www.nrc.gov/site-help/e-submittals.html> or by calling the NRC technical help line, which is available between 8:30 a.m. and 4:15 p.m., Eastern Time, Monday through Friday. The help line number is (800) 397-4209 or locally, (301) 415-4737.

Participants who believe that they have good cause for not submitting documents electronically must file a motion, in accordance with 10 C.F.R. 2.302(g), with their initial paper filing requesting authorization to continue to submit documents in paper format. Such filings must be submitted by (1) first class mail addressed to the Office of the Secretary of the Commission, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, Attention: Rulemaking and Adjudications Staff; or (2) courier, express mail, or expedited delivery service to the Office of the Secretary, Sixteenth Floor, One White Flint North, 11555 Rockville, Pike, Rockville, Maryland, 20852, Attention: Rulemaking and Adjudications Staff. Participants filing a document in this manner are responsible for serving the document on all other participants. Filing is considered complete by first-class mail as of the time of deposit in the mail, or by courier, express mail, or expedited delivery service upon depositing the document with the provider of the service.

Documents submitted in adjudicatory proceedings will appear in NRC's electronic hearing docket which is available to the public at [http://ehd.nrc.gov/EHD\\_Proceeding/home.asp](http://ehd.nrc.gov/EHD_Proceeding/home.asp), unless excluded pursuant to an order of the Commission, an Atomic Safety and Licensing Board, or a Presiding Officer. Participants are requested not to include personal privacy information, such as social security numbers, home addresses, or home phone numbers in their

filings. With respect to copyrighted works, except for limited excerpts that serve the purpose of the adjudicatory filings and would constitute a Fair Use application, Participants are requested not to include copyrighted materials in their works.

If a hearing is requested by the Licensee or a person whose interest is adversely affected, the Commission will issue an Order designating the time and place of any hearing. If a hearing is held the issue to be considered at such hearing shall be whether this Order should be sustained.

Pursuant to 10 CFR 2.202(c)(2)(i), the Licensee may, in addition to requesting a hearing, at the time the answer is filed or sooner, move the presiding officer to set aside the immediate effectiveness of the Order on the ground that the Order, including the need for immediate effectiveness, is not based on adequate evidence but on mere suspicion, unfounded allegations, or error.

In the absence of any request for hearing, or written approval of an extension of time in which to request a hearing, the provisions specified in Section III above shall be final twenty (20) days from the date of this Order without further order or proceedings. If an extension of time for requesting a hearing has been approved, the provisions specified in Section III shall be final when the extension expires if a hearing request has not been received.

AN ANSWER OR A REQUEST FOR HEARING SHALL NOT STAY THE IMMEDIATE EFFECTIVENESS OF THIS ORDER.

Dated this 5<sup>th</sup> day of June 2008

FOR THE NUCLEAR REGULATORY COMMISSION

*/RA/*

Charles L. Miller, Director  
Office of Federal and State Materials  
and Environmental Management Programs

Attachments:

1. List of Applicable Materials Licensees (Contains Official Use Only – Security Related Information)
2. Compensatory Measures for Panoramic and Underwater Irradiator Licensees (Contains Safeguards Information)
3. Requirements for Fingerprinting and Criminal History Checks of Individuals When Licensee's Reviewing Official is Determining Access to Safeguards Information or Unescorted Access to the Panoramic or Underwater Irradiator Sealed Sources