



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
2100 RENAISSANCE BOULEVARD, SUITE 100  
KING OF PRUSSIA, PA 19406-2713

June 3, 2016

Docket No. 03011069

License No. 45-16452-01

Charles M. Jackson, III  
President - CEO  
Advex Corporation  
121 Floyd Thompson Drive  
Hampton, VA 23666

SUBJECT: NRC INSPECTION REPORT NO. 03011069/2016001, ADVEX CORPORATION,  
HAMPTON, VIRGINIA SITE AND NOTICE OF VIOLATION

Dear Mr. Jackson:

On March 3, 2016, Randolph Ragland and Leonardo Wardrobe of this office conducted a safety inspection at the above address of activities authorized by the above listed NRC license. The inspection continued in-office until May 31, 2016, and was an examination of your licensed activities as they relate to radiation safety and to compliance with the Commission's regulations and the license conditions. The inspection consisted of observations by the inspectors, interviews with personnel, and a selective examination of representative records. The findings of the inspection were discussed with you and Jordan W. Norton of your organization at the conclusion of the inspection on May 31, 2016.

Based on the results of this inspection and in accordance with the NRC Enforcement Policy, the NRC has determined that two Severity Level IV violations of NRC requirements occurred. The violations involved: 1) the failure to use personnel dosimeters processed and evaluated by an accredited NVLAP processor; and 2) the failure to maintain records of semi-annual inspections of job performance for each radiographer and each radiographer's assistant.

The violations are cited in the enclosed Notice of Violation (Notice), because the violations were identified by the NRC.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response, will be made available electronically for public inspection in the NRC Public Document Room or from the NRC document system, the Agency wide Documents Access and Management System (ADAMS), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>. To the extent possible, your response should not include any personal privacy, proprietary, or safeguards information so that it can be made available to the Public without redaction.

The NRC's Safety Culture Policy Statement became effective in June 2011. While a policy statement and not a regulation, it sets forth the agency's *expectations* for individuals and organizations to establish and maintain a positive safety culture. You can access the policy statement and supporting material that may benefit your organization on NRC's safety culture Web site at <http://www.nrc.gov/about-nrc/safety-culture.html>. We strongly encourage you to review this material and adapt it to your particular needs in order to develop and maintain a positive safety culture as you engage in NRC-regulated activities.

C. Jackson

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Current NRC regulations and guidance are included on the NRC's Web site at [www.nrc.gov](http://www.nrc.gov); select **Nuclear Materials; Med, Ind, & Academic Uses**; then **Regulations, Guidance and Communications**. The current Enforcement Policy is included on the NRC's Web site at [www.nrc.gov](http://www.nrc.gov); select **About NRC, Organizations & Functions; Office of Enforcement; Enforcement documents**; then **Enforcement Policy (Under 'Related Information')**. You may also obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-866-512-1800. The GPO is open from 8:00 a.m. to 5:30 p.m. EST, Monday through Friday (except Federal holidays).

Please contact Randolph Ragland at (610) 337-5083 if you have any questions regarding this matter.

Sincerely,

*/RA/*

Monica Lynn Ford, Acting Chief  
Commercial, Industrial, R&D and  
Academic Branch  
Division of Nuclear Materials Safety

Enclosure:  
Notice of Violation

cc w/Enclosure: Jordan W. Norton, Radiation Safety Officer  
Commonwealth of Virginia

C. Jackson

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Enclosure:  
Notice of Violation

cc w/Enclosure: Jordan W. Norton, Radiation Safety Officer  
Commonwealth of Virginia

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**SUNSI Review Complete: RRagland**

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OFFICE	DNMS/RI	N	DNMS/RI	DNMS/RI		
NAME	LWardrobe/lw		RRagland/rcr	MFord/mlf		
DATE	06/03/16		06/02/16	06/03/16		

## **NOTICE OF VIOLATION**

Advex Corporation  
Hampton, VA

Docket No. 03011069  
License No. 45-16452-01

During an NRC inspection conducted on March 3, 2016, two violations of NRC requirements were identified. In accordance with the NRC Enforcement Policy, the violations are listed below:

- A. 10 CFR 34.47(a) states in part that the licensee may not permit any individual to act as a radiographer or a radiographer's assistant unless, at all times during radiographic operations, each individual wears, on the trunk of the body, a personnel dosimeter that is processed and evaluated by an accredited National Voluntary Laboratory Accreditation Program (NVLAP) processor.

Contrary to the above, from 2014 to May 31, 2016, the licensee did not use personnel dosimeters processed and evaluated by an accredited NVLAP processor. Specifically, the licensee uses Instadose dosimeters manufactured by Mirion Technologies and the dosimeters are not processed and evaluated by an accredited NVLAP processor and the licensee had not received an exemption from the requirement in accordance with 10 CFR 30.11.

This is a Severity Level IV violation (Enforcement Policy Section 6.7).

- B. 10 CFR 34.79(b) states, in part that each licensee shall maintain records of semi-annual inspections of job performance for each radiographer and each radiographer's assistant. The records must include a list showing the items checked and any non-compliance observed by the Radiation Safety Officer (RSO).

Contrary to the above, from May 15, 2015, thru March 3, 2016, the licensee did not maintain records of semi-annual inspections of job performance for each radiographer and each radiographer's assistant. Specifically, on a semi-annual basis, the RSO evaluated the radiographer's job performance during work in NRC jurisdiction, but failed to maintain records of the semi-annual inspections of job performance for each radiographer.

This is a Severity Level IV violation (Enforcement Policy Section 6.7).

Pursuant to the provisions of 10 CFR 2.201, Advex Corporation is hereby required to submit a written statement or explanation to the U.S. Nuclear Regulatory Commission, ATTN: Document Control Desk, Washington, D.C. 20555, with a copy to the Regional Administrator, Region I, within 30 days of the date of the letter transmitting this Notice of Violation (Notice). This reply should be clearly marked as a "Reply to a Notice of Violation" and should include for each violation: (1) the reason for the violation, or, if contested, the basis for disputing the violation, (2) the corrective steps that have been taken and the results achieved, (3) the corrective steps that will be taken to avoid further violations, and (4) the date when full compliance will be achieved. Your response may reference or include previous docketed correspondence, if the correspondence adequately addresses the required response. If an adequate reply is not

received within the time specified in this Notice, an order or a Demand for Information may be issued as to why the license should not be modified, suspended, or revoked, or why such other action as may be proper should not be taken. Where good cause is shown, consideration will be given to extending the response time.

If you contest this enforcement action, you should also provide a copy of your response to the Director, Office of Enforcement, United States Nuclear Regulatory Commission, Washington, DC 20555-0001. Under the authority of Section 182 of the Act, 42 U.S.C. 2232, any response which contests an enforcement action shall be submitted under oath or affirmation.

Your response will be placed in the NRC Public Document Room (PDR) and on the NRC Web site. To the extent possible, it should, therefore, not include any personal privacy, proprietary, or safeguards information so that it can be made publically available without redaction. However, if you find it necessary to include such information, you should clearly indicate the specific information that you desire not to be placed in the PDR, and provide the legal basis to support your request for withholding the information from the public.

In accordance with 10 CFR 19.11, you may be required to post this Notice within two working days of receipt.

Dated This 3rd day of June 2016