



UNITED STATES
NUCLEAR REGULATORY COMMISSION

Office of Federal and State Materials and
Environmental Management Programs
WASHINGTON, DC 20555 - 0001

August 12, 2013

Docket No. 030-29464
Mail Control 579578

License No. 19-23643-01E

Stephen F. Babinec
Radiation Officer
Universal Security Instruments, Inc.
11407 Cronhill Drive, Suite A
Owings Mills, MD 21117

**SUBJECT: UNIVERSAL SECURITY INSTRUMENTS, INC. REQUEST FOR ADDITIONAL
INFORMATION CONCERNING APPLICATION FOR RENEWAL**

Dear Mr. Babinec:

This refers to your license renewal application request dated October 29, 2012. In order to continue our review, we need the following additional information.

1. 10 CFR 32.26 requires the applicant submits sufficient information regarding the product pertinent to evaluation of the potential radiation exposure. Please submit information include:
 - (1) Chemical and physical form of the byproduct material in the product and changes in chemical and physical form that may occur during the useful life of the product;
 - (2) Solubility in water and body fluids of the forms of the byproduct material used in the devices;
 - (3) Details of construction and design of the product as related to containment and shielding of the byproduct material and other safety features under normal and severe conditions of handling, storage, use, and disposal of the product;
 - (4) Maximum external radiation levels at 5 and 25 centimeters from any external surface of the product, averaged over an area not to exceed 10 square centimeters, and the method of measurement;
 - (5) Degree of access of human beings to the product during normal handling and use;
 - (6) Total quantity of byproduct material expected to be distributed in the product annually;
 - (7) The expected useful life of the product;
 - (8) The proposed methods of labeling or marking the detector and its point-of-sale package to satisfy the requirements of 10 CFR 32.29(b);

- (9) Procedures for prototype testing of the product to demonstrate the effectiveness of the containment, shielding, and other safety features under both normal and severe conditions of handling, storage, use, and disposal of the product;
 - (10) Results of the prototype testing of the product, including any change in the form of the byproduct material contained in the product, the extent to which the byproduct material may be released to the environment, any increase in external radiation levels, and any other changes in safety features;
 - (11) The estimated external radiation doses and dose commitments relevant to the safety criteria in 10 CFR 32.27 and the basis for such estimates;
 - (12) A determination that the probabilities with respect to the doses referred to in 10 CFR 32.27(c) meet the criteria of that paragraph;
 - (13) Quality control procedures to be followed in the fabrication of production lots of the product and the quality control standards the product will be required to meet.
2. In accordance with 10 CFR 32.27, please submit information to demonstrate that the product is designed and will be manufactured to meet the criteria in 10 CFR 32.27 (a), (b) and (c).
 3. Confirm which model(s) of smoke alarms (gas and aerosol detectors) containing Americium-241 will be distributed.
 4. Please verify your distribution location. Your current NRC license lists 11407 Cronhill Drive, Suites A – D, Owings Mills, Maryland and 2850 E. Del Amo Blvd, Carson, California. If you wish to distribute from a California location, please submit a copy of your current California possession license.

We will continue our review upon receipt of this information. If we do not receive a reply from you within 30 calendar days from the date of this letter, we will assume that you do not wish to pursue your renewal application.

In accordance with 10 CFR 2.390 of NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in NRC's Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC web site at <http://www.nrc.gov/reading-rm/adams.html>.

S. Babinec
Universal Security Instruments, Inc. 3

If you have any questions, you may contact me at (301) 415-7640, or by electronic mail at Shirley.Xu@nrc.gov.

Sincerely,
/RA/
Shirley S. Xu
Licensing Branch
Division of Materials Safety and State Agreements
Office of Federal and State Materials and
Environmental Management Programs

S. Babinec
Universal Security Instruments, Inc. 4

If you have any questions, you may contact me at (301) 415-7640, or by electronic mail at Shirley.Xu@nrc.gov.

Sincerely,

/RA/

Shirley S. Xu
Licensing Branch
Division of Materials Safety and State Agreements
Office of Federal and State Materials and
Environmental Management Programs

SUNSI Review Complete: SXu

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