



CONVERSATION RECORD

01/31/2014

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

Nathan H. Long (Radiation Safety Officer)

DATE OF CONTACT

01/15/2014

TYPE OF CONVERSATION



E-MAIL



TELEPHONE



INCOMING



OUTGOING

E-MAIL ADDRESS

~~NA@example.com~~

TELEPHONE NUMBER

(812) 853-4710

ORGANIZATION

Alcoa Inc.

DOCKET NUMBER(S)

030-20691

LICENSE NUMBER(S)

13-20664-01

CONTROL NUMBER(S)

582395

SUBJECT

Request additional information regarding the proposed authorized user

SUMMARY

The reviewer requested additional information regarding the hand-on training provided to Ms. Griffin, a proposed authorized user (AU), as suggested in NUREG-1556, Volume 4. The RSO stated that Ms. Griffin has not completed those training. The RSO stated that Ms. Griffin is scheduled to complete all necessary training by February 4, 2014. After the completion, he will provide a copy of Ms. Griffin's training record by fax. The reviewer provided him the Region 3 fax number and the control number.

Continue on Page 2

ACTION REQUIRED (IF ANY)

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the NRC's Agencywide Documents Access and Management System (ADAMS), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

Continue on Page 3

NAME OF PERSON DOCUMENTING CONVERSATION

Frank Tran

SIGNATURE

Nevada Technical Associates, Inc.
Radiation Safety Officer
Course Outline

Starting time: 8:30 each day.

The topics below will be more or less evenly distributed over the duration of the course.

1. Introduction

- a. Course objectives and schedule
- b. Origins of nuclear science
- c. Atomic structure, isotopes, nuclear stability
- d. Equations of radioactive decay

2. Radioactive Decay Processes

- a. Alpha emission
- b. Beta emission
- c. Gamma emission
- d. Other decay processes
- e. Statistics of radioactive decay

3. Interaction of Radiation with Matter

- a. Modes of interaction
- b. Heavy charged particle interactions
- c. Beta particle interaction
- d. Gamma ray interaction
- e. Neutron interaction

4. Radiation Detection and Measurement

- a. Gas-filled chambers
- b. Scintillation detectors
- c. Semi-conductors
- d. Photographic emulsions

5. Biological Effects of Radiation

- a. Radiation quantities and units
- b. Quality factors
- c. Biological effects
- d. Mechanisms of biological damage
- e. Acute, whole-body gamma radiation
- f. Risk of stochastic effects
- g. Fatality rates in various industries
- h. Radiation dose from natural and man-made sources

6. Shielding

- a. Charged particle shielding
- b. Photon shielding
- c. Neutron shielding
- d. Facility shielding

7. Personnel Radiation Dosimetry Devices and Methods

- a. External monitoring
- b. External dose evaluation
- c. Internal monitoring
- d. Internal dose assessment

8. Federal and State Regulations

- a. Chronology of standards
- b. Sources of standards, recommendations and requirements
- c. Basis of Standards
- d. Current regulations
- e. Licensing procedures

9. Radiological Safety Surveys, Records and Documentation

- a. Surveys and inspections
- b. Radiological Controls and ALARA
- c. Records and documents
- d. Operating and emergency procedures and document control

10. Radioactive Material Transportation and Disposal Regulations

- a. Applicable regulations
- b. Categories, packaging and limits
- c. Manifests, records, markings, and labels
- d. Radwaste disposal methods, sites, records and regulations

11. Radiological Emergencies

- a. Definitions, classifications and phases
- b. Notifications and assistance
- c. Response: isolation, radiation and medical evaluations
- d. Review of accident causes and recent accidents

12. Drafting a Radiological Safety Plan (student exercise)

- a. Attendees prepare program
- b. Exercise review