



DEPARTMENT OF THE ARMY
NEW ENGLAND DIVISION, CORPS OF ENGINEERS
424 TRAPELO ROAD
WALTHAM, MASSACHUSETTS 02254-9149

REPLY TO
ATTENTION OF

December 9, 1986

MS16
P7

Dr. John Glenn
Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

Dear Dr. Glenn:

This is in reference to our NRC License No. 20-04366-02, your Docket No. 030-19124, and to my conversation with Mr. Steven Courmanche of your office on this date.

It is my understanding that the processing of our new license application has been delayed because of certain missing information. The purpose of this letter is to provide your office with the information that you require for the successful processing of our application. The aforementioned information is as follows:

1. Site Security

Our laboratory facility is located at the Barre Falls Dam Flood Control Project in Hubbardston, MA. The facilities are manned Monday through Friday during normal working hours (0700-1530), on Saturday from 0700-1200, and on Sunday from 0700-0900. The Project Manager maintains his permanent residence on Project land less than 1 mile distant from the laboratory. All windows and doors clearly visible from the only access road to the facility. All exterior doors are double-locked with doorknob and deadbolt locks. Security during the non-working hours is maintained with an ultrasonic motion detection alarm system. When violated, this alarm system sounds an audible siren and calls three police departments (two local plus state police). The audible alarm is easily heard at the Project Manager's residence. This security system is augmented by regular patrols by the local police department (under contract to the Corps of Engineers).

2. Wipe Test Procedures

I believe that the description of these procedures were previously submitted with our application. I have attached a copy of them for your reference.

As I explained to Mr. Courtmanche today, we are in somewhat of a bind. One of our two sources is not operating properly and needs to be cleaned. The remaining source is currently at the manufacturer's after having been cleaned. The manufacturer is unable to return the cleaned source because of our license expiration. The result of all of this is that I cannot operate the instrument, which utilizes these sources. Our work is backing up and we are desperate.

ML10

"OFFICIAL RECORD COPY"

8701140574 870106
REC1 LIC30
20-04366-03 PDR

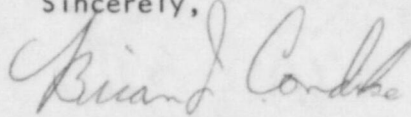
119978

DEC 10 1986

Anything that you can do to expedite our license application would be greatly appreciated.

Thank you for all of your help in this matter.

Sincerely,

A handwritten signature in cursive script, reading "Brian J. Condike". The signature is written in dark ink and is positioned above the printed name.

Brian J. Condike
Chief Chemist
Water Quality Laboratory

Application for NRC License

Ni⁶³ Sealed foil

Water Quality Laboratory
New England Division Corps of Engineers
424 Trapelo Road, Waltham, Massachusetts

Attachment

No. 15 Radiation Protection Program

In following the Radiation Protection Program of the Corps of Engineers ER 385-1-80, the Chief Safety Office is assigned responsibility for completion of compliance with NRC, OSHA and Corps of Engineers requirements for preventing exposure of persons to sources and equipment emitting nuclear radiation. Control measures are exclusion of persons not conducting tests from vicinity of source, maintaining sealed source without open exposure in the laboratory, fume and exhaust duct to prevent escape of radiation, marking of radiation area, and instructions for all laboratory personnel in effects, controls, and compliance with protection. Wipe test is made annually or when sealed source is exchanged with the manufacturer. Procedure is to wipe exterior of sealed source with clean cellulose carried to the Radiological Safety Laboratory at the US Army Materials Laboratory, Watertown, Massachusetts for testing by Industrial Hygienist with scintillation counter. Results are matched with count rates of known activities and reported in microcuries. Limit is 7×10^{-6} microcuries. Reference Title 10 CFR Part 31. Searle Model 1152.

Operation of sealed source in instrument is limited to Laboratory Chemist or to chemist under his direct supervision. NRC Form 3 is posted in Laboratory.

No. 16 Training in Radiation Safety

W.M.HOXIE, Chief Safety Office and RPO was trained in USA Chemical Corps School in radiation effects and safety; additional training in effects, radiation protection, monitoring, biological effects in USA Environmental Hygiene Course at Edgewood Arsenal, Maryland and in radiation protection at Worcester. He has served as Instructor in Weapons Effects, radiation effects, and protection in USA Command & General Staff College courses for Artillery and Medical Officers.

Mr. Robert X. Brazeau completed formal studies covering four areas of radiation safety (-protection, monitoring, mathematics and biological effects) CER School Fort Knox, Kentucky 2 weeks
OCD Eastern Training Centre, Sheepshead Bay, Long Island, N.Y.
Certificate No.01135

Mr. Brian Condiike, MS, Chemist, is a graduate chemist with 4 months of specialized training in measurement and standardization instrumentation and techniques at the University of Massachusetts, Amherst, Massachusetts. 24 May 1983 Mr. Condiike was designated Alternate RPO for NED.

Application for NRC License

Ni⁶³ Sealed foil .
New England Division Corps of Engineers
Water Quality Laboratory

Attachment

No. 17 Experience.

W.M.Hoxie, CSP, has performed the assignment of Radiological Protection Officer in addition to construction and occupational safety since 1963, which has included acquisition of licenses, equipment and supervision of radiation monitoring, training, general consultation with laboratories and maintenance of prescribed records. Radiological applications during emergency exercises have been completed in all exercises in which New England Division took part. Occupational health training has been disseminated to all Division personnel and no exposure has been found as radiation sources have been well controlled, from Tritium, Cobalt ⁶⁰ training sources, and Nickel ⁶³.

Mr. Robert X. Brazeau has directed the Water Quality Laboratory using the sealed sources of Co⁶⁰, Tritium (250 millicuries) and Nickel ⁶³ in laboratory testing.

Mr. Brian Condiike has been the principal Chemist for the Water Quality Laboratory using gas chromatography for analysis of water samples. Co⁶⁰ was used occasionally in a training mode with sealed sources of training kit, and Tritium (250 millicuries) replaced with a single source of Nickel ⁶³ in gas chromatograph, at a level not over 10 microcuries. Mr. Condiike has been as meticulous in safe handling of the isotopes as with the toxic materials otherwise used in thousands of sample analyses without radioactive sources.

CONVERSATION RECORD

TIME

9:30

DATE

12/8/86

TYPE

☐ VISIT

☐ CONFERENCE

☒ TELEPHONE

☐ INCOMING

☒ OUTGOING

ROUTING

NAME/SYMBOL

INT

Location of Visit/Conference:

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

Mr. Bryan Condike

ORGANIZATION (Office, dept., bureau, etc.)

Department of the Army

TELEPHONE NO.

(617) 928-4711

SUBJECT

Renewal of License No. 20-04366-02

SUMMARY

Informed Mr. Condike that the application was being treated as a new license since LN 20-04366-02 had been allowed to expire. He expressed concern because the manufacturer was holding onto the ECD because his license had expired. Informed him that we required a letter from him describing how they would correct deficiencies in their application (i.e. leak test procedures and the security of material) according to Mr. Thompson's deficiency letter. John Glenn will give Mr. Condike the new license number when the letter arrives.

ML1B

"OFFICIAL RECORD COPY"

ACTION REQUIRED

Place Telephone Con Record in file.

NAME OF PERSON DOCUMENTING CONVERSATION

Steven Courtemanche

SIGNATURE

Steven Courtemanche

DATE

12/8/86

ACTION TAKEN

SIGNATURE

TITLE

DATE

50271-101

U.S. G.P.O. 1983-381-526/8346

CONVERSATION RECORD

OPTIONAL FORM 271 (12-76)
DEPARTMENT OF DEFENSE

CONVERSATION RECORD

TIME 1406

DATE 12/3/86

TYPE

☐ VISIT

☐ CONFERENCE

☒ TELEPHONE

☐ INCOMING

☒ OUTGOING

Location of Visit/Conference:

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

Wilbur Hoxie

ORGANIZATION (Office, dept., bureau, etc.) New England Div. of Corp. of Eng.

TELEPHONE NO.

617 647-8336

SUBJECT

Additional Info. for new application.

ROUTING

NAME/SYMBOL INT

SUMMARY

Told Mr. Hoxie he should perform a leak test on Ni-63 Shimadzu detector every 6 months & should commit to maintaining detector in a locked bldg.

Mr. Hoxie will send us a letter committing to the above.

ML10

"OFFICIAL RECORD COPY"

ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

Thomas K. Thompson

DATE

12/3/86

ACTION TAKEN

SIGNATURE

TITLE

DATE