National Oceanic and Atmospheric Administration, Host Agency serving: Bureau of the Census Economic Development Administration International Trade Administration Minority Business Development Agency National Bureau of Standards National Telecommunications and Information Administration Office of the Inspector General



U.S. DEPARTMENT OF COMMERCE Mountain Administrative Support Center 325 Broadway Boulder, Colorado 80303

3 February 1984

RAS/MC4:WWS

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FEB

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U.S.Nuclear Regulatory Commission Material Licensing Branch Division of Fuel Cycle and Material Safety Washington, D.C. 20555

Dear Sir:

Thank you for reminding us that our NRC By-Product Material License No. 05-03166-05 is about to expire.

The only change to our license (Amendments 11 through 13) is the deletion of item 6A., Cesium-137 source. This source was transferred to the National Burea: of Standards, Gaithersburg Laboratories (NRC By-Product Material License No. 08-00566-05) on August 20, 1982.

Items 6B (Cobalt 60), 6C (Polonium 210), and 6D (Any by-product material with Atomic No. 3 to 83) we continue to have either in an active project or in storage in our Radioactive Materials Storage Vault.

The May 4, 1983 letter contains the only current information. The other correspondence may be discarded if you wish since they apply mostly to the deleted Cesium 137 source.

Wipes taken for leak testing are generally analyzed at the University of Colorado Health Physics Laboratory, where they use a Liquid Scintilation Counter that has a sensitivity of 0.00005 microcurie. Occasionally we use an Eberline Model RM-3A, along with a 0.0048 microcurie Technitium check source for immediate analysis. Wipe paper is provided by Acne Distributers, Kingston, Tenn. A model SH-2 sample holder is used to accurately control distances from the samples.

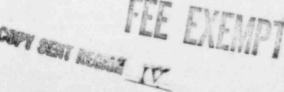
Instrumentation used in health physics surveys include the Eberline Model RM-3A, Model E-500 B, PAC-4G Alpha Counter with Model AC-21 probe. We also use a Victoreen Model 440 ion chamber instrument and a W.B.Johnson Model GSM-5 geiger counter. Every six months, one instrument from this group is calibrated at the University of Colorado Health Physics Laboratory by the Chief of Health Physics, Mr. Fred Duncan. Their procedures are on file under Colo. 82(1883)-8SF.

Licensee heading should be changed to: U.S.Department of Commerce, National Bureau of Standards Laboratories, Mail Code RAS/MC4, Attn: W. Scott, 325 Broadway, Boulder, CO 80303.

Attached is my updated qualifications to handle licensed material. Also included are the qualifications for two researchers at NBS who should be added to the license: Mr. Earle Pittman and Mr. Patrick Purtscher.

Please renew our current license, with changes as noted above. We will operate in accordance with the applicable NRC Regulations and License conditions. 16995

8408210560 840814 NMS LIC30 05-03166-05 PDR





If you have any questions regarding this application for renewal, please call me on FTS 320-3948.

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Sincerely,

Winston W. Scott f.

Winston W. Scott, Jr. Radiation Safety Officer

Attachments



UNITED STATES DEPARTMENT OF COMMERCE National Bureau of Standards 325 Broadway Boulder, Colorado 80303

Reply to the attention of:

August 20, 1982

MEMORANDUM FOR THE RECORD

From: Winston Scott, NBS-BL Radiological Safety Officer National Bureau of Standards 325 Broadway Boulder, CO 80303

SUBJECT: Transfer Certificate of Radioactive Materials

This is a certificate of transfer of radioactive material from the National Bureau of Standards, Boulder, CO Laboratories (NRC By-Product Material License 05-03166-05) to the National Bureau of Standards, Gaithersburg, MD Laboratories (NRC By-Product Material License 08-00566-05).

The following by-product material is transferred effective August 20, 1982:

Cesium-137, Sealed Source (Industrial Nucleonics), Class S-6, 2.5 curies

I certify that a wipe test of the source showed no contamination.

Transferred from NBS-B

Transferred to NBS-G

L.A.Slabac

Winston W. Scott, Jr. Radiological Experience and Training Summarized: October 1983

Experience

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1958	B.S. Electronic Engineering, University of California (Berkeley)
1961-1963	Vice Chairman of Survival Planning Committee, National Bureau of Standards
1963-1967	Radiological Defense Officer, Boulder County- City Civil Defense Agency
1967-1969	Alternate Radiological Safety Officer at National Bureau of Standards, Boulder, CO.
1969-1983	Radiological Safety Officer at National Bureau of Standards, Boulder, CO
1958-1977	Electronic Engineer with National Bureau of Standards,
1977-July 1983	Safety Engineer with National Bureau of Standards
July 1983 to Present	Safety Engineer/Director for DOC Mountain Administrative Support Center, NOAA, Boulder - Radiological Safety Officer for NBS and NOAA, Boulder, CO

Training

April 1961	Radiological Monitor Training Course, NBS, 32 hours
April 1964	Radiological Defense Officer I, CD Western Training Center,40 hours
October 1965	Radiological Monitoring Instructor, University of Colorado Extension 8 hours
October 1967	Basic Radiological Health, PHS Southwestern Radiological Health Laboratory 80 hours
January 1969	Occupational Radiation Protection, PHS Southwestern Radiological Health Laboratory 80 hours
April 1970	Medical X-ray Protection, PHS Southwestern Radiological Health Laboratory - 80 hours
July 1980	Health Physics Society 25th Annual Meeting, Seattle, WN, 40 hours
February 1982	Comprehensive Health Physics, Rockwell International, 80 hours

Other

1976 to Present	Plenary Member, Health Physics Society
1971 to Present	Member, Central Rocky Mountain Chapter, Health Physics Society
1983	Applied for and was accepted for examination for Certified Health Physicist. Took Part I Examination this summer.

Earle S. Pittman

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RESUME

10/79 - Present National Bureau of Standards National Engineering Laboratory Center for Electronics and Electrical Engineering Electromagnetic Technology Division

Physical Science Technician GS 9-05

11/76 - 10/79 Westinghouse Electric Corp. Geophysical Instrumentation Systems

> Field Engineer I resigned when they closed the Boulder office.

2/72 - 6/76 Laboratory for Atmospheric and Space Sciences University of Colorado

> Senior Electronic Specialist I was laid off due to lack of Contracts

- 4/70 1/72 Statitrol Corp. (Ionization Smoke Detectors) Senior Technician
- 6/69 9/69 Federal Aviation Administration Air Traffic Control Specialist Laid off because I was too old (32)
- 9/66 3/69 University of Colorado Psychology and Chemistry Instrument Shop Instrument Maker Resigned to pursue position with FAA
- 5/63 9/66 National Center for Atmospheric Research Electronic Stores Manager Resigned to return to school
- 4/62 5/63 Ball Brothers Research Corp. Wireman Worked on OSO II Satellite until laid off due to loss of AOSO contract.

My employment history is strong in precision instrumentation and shows a realization of the importance of precision in my work.

9/81 Radiological Defense Officer Course Radiological Defense Instructor Course Both given by Colorado Division of Disaster Emergency Services

I received a Byproduct Material User's Certificate through this course for Cobalt 60 which I have renewed

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6/81	Radiological Monitoring Course Given by Boulder City-County Emergency Preparedness Office
4/55	United States Air Force Munitions Specialist Received training in radiological decontamination
8/81	I have been assigned the position of Chief of Monitors With the Boulder Civil Defense Office, a position with very little involvement due to the current anti-Civil Defense sentiment of our community

I have 6 years of College beginning with Ceramic Engineering at the University of Illinois/Chicago in 1954. At the University of Colorado I have done major work in Physics, Business and Mathematics. I lack one year toward a degree Patrick T. Purtscher Educational Background:

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University of Illinois-Urbana B.S. Degree in Metallurgical Engrg. Dec. 1975 one course in nuclear engineering

Colorado School of Mines-Golden M.S. Degree in Metallurgical Engrg. Dec. 1982 Thesis topic: Fracture of High Carbon Steel

Work Experience:

Keystone Steel and Wire Bartonville, Illinois 11 months as arc shop observer from 1/73 to 11/73

Caterpillar Tractor Co. Peoria, Illinois 5 years as research engineer from 1/76 to 1/81

Present Position:

Materials research engineer Fracture and Deformation Div. National Bureau of Standards Boulder, Colorado