

# DMJM

May 18, 1989

Doris Foster  
Chief of Licensing Assistance  
Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406

Dear Ms. Foster:

Subject: Project #165-110, East Windsor/Windsor Locks  
F.A.P. No. I-IR-IG-IRG-91-3(118)50  
Troxler Model 3400 Portable Moisture/Density Gauge

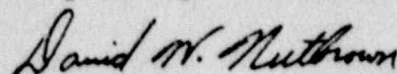
Reference is made to the attached license which denotes the present storage location of the above subject item.

Please be advised that on May 22, 1989, we anticipate relocating the gauge to its new storage location of 78 Main Street, Windsor Locks, CT., 06096.

Please find attached, a layout of the office with the gauges' proposed storage location at the above noted address.

If you have any further questions regarding this matter, please do not hesitate to call me at this office at (203) 623-2964.

Very Truly Yours,



David W. Nutbrown  
Office Engineer  
DMJM Architects & Engineers

Enclosures  
David W. Nutbrown/vlh

DMJM Architects & Engineers

78 Main Street  
Windsor Locks  
Connecticut 06096  
Telephone 203/623-2964

Planning  
Architecture  
Engineering  
Systems  
Economics

9002090317 890710  
REQ1 LIC30  
06-20905-01 PDR

MAY 25 1989

No 6345

# Certificate Of Completion

This is to certify that David W. Norbrown has completed the  
basic training course on Radiation Safety and Use of Nuclear Soil Gauges,  
held this 24 day of Oct 1986, held at B.M.I.  
City of Brown Ford State of CT. by CPN Corporation.

*R.F. Aouisey*  
INSTRUCTOR



2830 Howe Road  
Martinez, California USA 94553

RADIATION SAFETY OFFICER

## CONTENTS OF COURSE

### **PRINCIPLES AND PRACTICES OF RADIATION PROTECTION**

Theory, terminology, and practical explanations of Radioactive Materials, License requirements, Storage, Transportation, and Emergency Procedures to be used with portable nuclear devices typical of "soil, agricultural, roof, and other construction gauges" using small (not more than 300 millicurie) sources in sealed capsules.

### **RADIOACTIVITY MEASUREMENT STANDARDIZATION AND MONITORING TECHNIQUES AND INSTRUMENTS**

Demonstration of radiation levels typical with use of small, portable devices using conventional survey meter. Concentration on Inverse Squares Law factors, effects of shielding, time, and distance in use of materials.

### **MATHEMATICS AND CALCULATIONS: BASIC TO THE USE AND MEASUREMENT OF RADIOACTIVITY**

Determination of typical radiation levels in mrem/s within working distance of a typical portable "construction device", calculation of probable weekly radiation dose under a heavy work condition, and relation of that dose to the NRC maximum annual allowances for occupational use of radioactivity.

Establishment of relationship of this occupational dose to that obtained from normal life exposures of external radiation at sea level and high elevations, jet plane travel, normal health XRAYs, etc.

### **BIOLOGICAL EFFECTS OF RADIATION**

General discussion of effects of low level radiation on the body with emphasis on the relationship of routine lifestyle exposure (environmental, routine medical, smoking, etc) to the added exposure from normal use of portable devices using small millicurie sources.

030-28870

**DMJM**

May 18, 1989

Doris Foster  
Chief of Licensing Assistance  
Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406

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Subject: Project #165-110, East Windsor/Windsor Locks  
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I

Log	Jun: 1
Remitter	
Check No.	020 252
Amount	\$60
Fee Category	30
Type of Fee	A.M.D.
Date Check Rec'd.	6-14-89
Date Completed	
By:	S. Kimbrey

Very Truly Yours,

*David W. Nutbrown*

David W. Nutbrown  
Office Engineer  
DMJM Architects & Engineers

Enclosures  
David W. Nutbrown/vlh

110730

MAY 18 1989

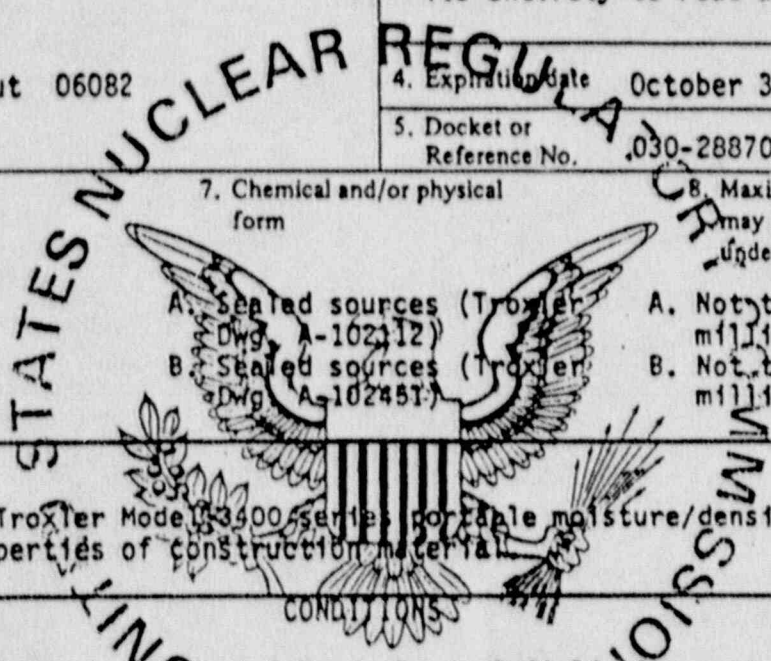
**OFFICIAL RECORD COPY**

MATERIALS LICENSE

Amendment No. 02

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee		In accordance with letter dated April 28, 1988,	
1. Daniel, Mann, Johnson & Mendenhall		3. License number 06-20905-01 is amended in its entirety to read as follows:	
2. 9 Moody Road Enfield, Connecticut 06082		4. Expiration date October 31, 1990	
		5. Docket or Reference No. 030-28870	
6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license	
A. Cesium 137	A. Sealed sources (Troxler Dwg. A-102312)	A. Not to exceed 9 millicuries per source	
B. Americium 241	B. Sealed sources (Troxler Dwg. A-102451)	B. Not to exceed 44 millicuries per source	
9. Authorized use			
A. and B. For use in Troxler Model 3300 series portable moisture/density gauges to measure properties of construction material			
10. Licensed material may be used at 9 Moody Road, Enfield, Connecticut and at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.			
11. A. Licensed material shall be used by, or under the supervision and in the physical presence of, individuals who have satisfactorily completed the manufacturer's training, and have been instructed in the licensee's operating and emergency procedures. Copies of the certificate of training for each user shall be maintained by the licensee.			
B. The Radiation Safety Officer for this license is Robert O'Connor.			
12. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders or detector cells by the licensee.			
13. A. Any sealed sources or detector cells specified in Items 7.A. and 7.B. shall be tested for leakage and/or contamination at intervals not to exceed 6 months. Any source or detector cell received from another person which is not accompanied by a certificate indicating that a test was performed within 6 months before the transfer shall not be put into use until tested.			



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488

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number	20905-01
Docket or Reference Number	030-28870
Amendment No. 02	

(13. continued)

CONDITIONS

- B. Any sealed source or detector cell in storage and not being used need not be tested. When the source or detector cell is removed from storage for use or transfer to another person, it shall be tested before use or transfer.
- C. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the source or detector cell shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety and Safeguards Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.
- D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to perform such services.

- 14. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material".
- 15. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 2 years from the date of each inventory.
- 16. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.

- A. Application dated August 20, 1980
- B. Letter dated August 15, 1985
- C. Letter dated October 3, 1985
- D. Letter dated August 25, 1987
- E. Letter dated April 28, 1988

For the U.S. Nuclear Regulatory Commission

Date 09 JUN 1988

By   
 Nuclear Materials Safety and  
 Safeguards Branch, Region I  
 King of Prussia, Pennsylvania 19406

CREDIT REFERENCES

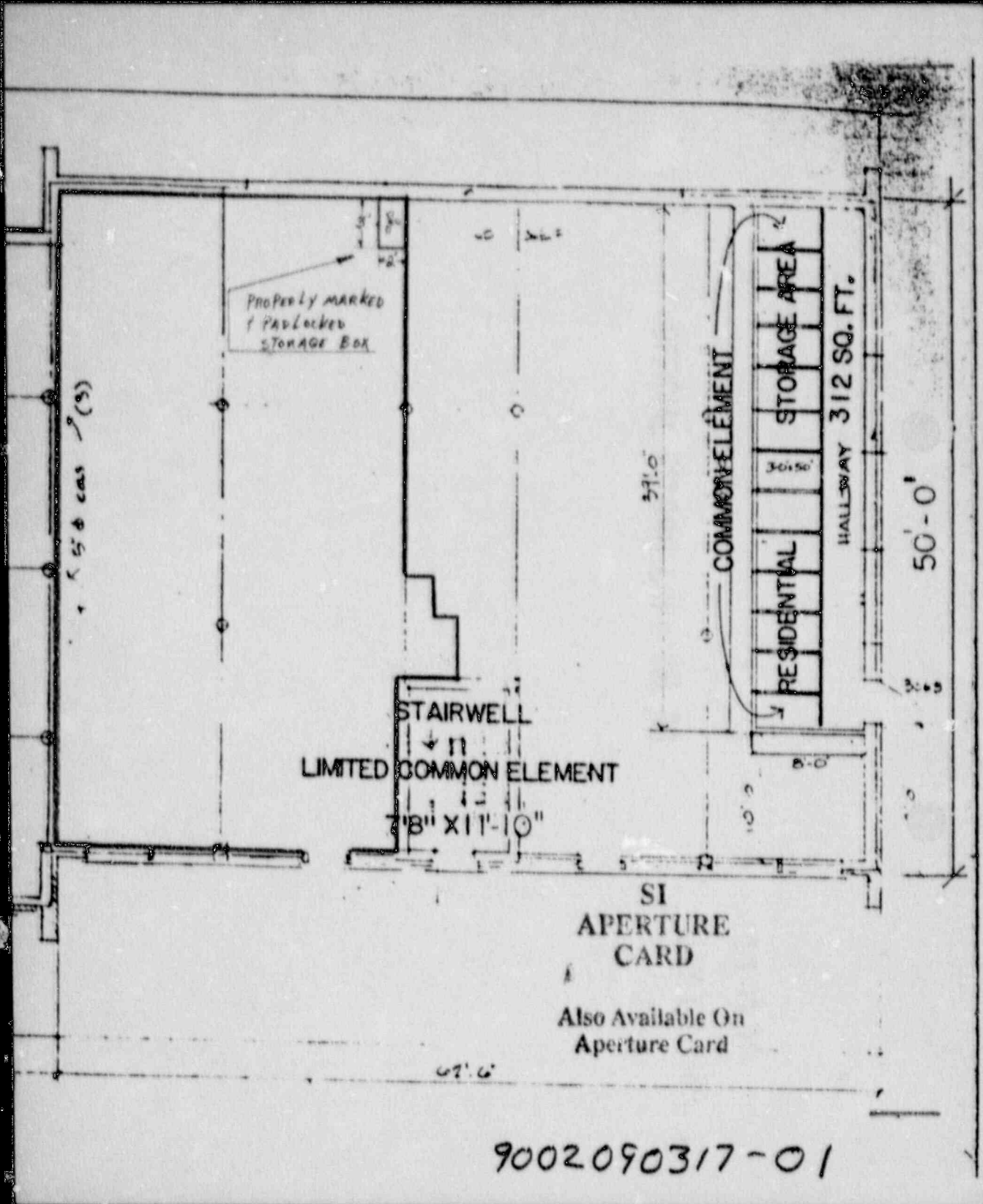
1. Dun & Bradstreet Number 00-690-6952
2. Bank Reference:  
Manufacturer's Hanover Trust  
221 Park Avenue South  
New York, New York 10003  
  
May Lind, Account Executive  
Account #8047062049365
3. Dr. Robert Reynolds (Landlord)  
2330 Whitney Avenue  
Hamden, CT 06418
4. Cobbs Stationers  
2100 Dixwell Avenue  
Hamden, CT 06514
5. Taylor Business Systems  
100 Boston Post Road  
Milford, CT 06460
6. SNETCO  
300 George Street  
New Haven, CT 06510
7. Great Bear Spring Company  
Addison Road Extension  
Windsor, CT
8. Crystal Rock Water Company  
313 Long Ridge Road  
Stamford, CT
9. Northeast Utilities  
P.O. Box 2960  
Hartford, CT 06104
10. Reproductions Unlimited  
1337 Dixwell Avenue  
Hamden, CT 06514

RECEIVED  
JAN 10 1989

DMJM







9002090317-01

# DMJM

June 14, 1989

Glenda Jackson  
License Fee Management Branch  
Division of Accounting and Finance  
Office of the Controller  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Dear Ms. Jackson:

Reference is made to your letter dated June 9, 1989, informing me of the \$60.00 fee to amend our Materials License #06-20905-01.

Enclosed, please find a check in the amount of sixty dollars (\$60.00) made out to the U.S. Nuclear Regulatory Commission for the following two requested amendments of this license:

1. Change of permanent storage location -

From: DMJM	To: DMJM
9 Moody Rd.	78 Main St.
Enfield, CT 06082	Windsor Locks, CT 06096

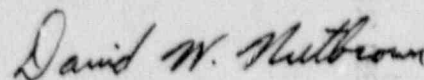
2. Change of Radiation Safety Officer -

From: Robert O'Connor To: David W. Nutbrown

Please be advised that these amendments have been assigned control number 110730.

If you have any further questions, please do not hesitate to call me at (203) 623-9395.

Very Truly Yours,



David W. Nutbrown  
Office Engineer  
DMJM Architects & Engineers

Enclosure  
DWN/vlh

DMJM Architects & Engineers

78 Main Street  
Windsor Locks  
Connecticut 06096  
Telephone 203/623-2864

Planning  
Architecture  
Engineering  
Systems  
Economics

