

MATERIALS LICENSE

Amendment No. 10

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, 36, 39, 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 the letter dated June 18, 1996,	
1. NES, Inc.	3. License Number 06-20775-01 is amended in its entirety to read as follows:	
2. 44 Shelter Rock Road Danbury, Connecticut 06810	4. Expiration Date March 31, 2001	
	5. Docket or Reference No. 030-22060	
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. Any byproduct material with Atomic Numbers 3-83	A. Any	A. See Condition 12
9. Authorized use		
A. 1. Maintenance, repair and/or decontamination of tools, equipment, and containers. 2. Analysis of samples. 3. Instrument check sources. 4. Packaging of licensed material for transport.		

CONDITIONS

10. Licensed material shall be used only at temporary job sites of the licensee anywhere in the United States where the Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
11. The Radiation Safety Officer for this license is Joseph J. Darman.
12. A. If only one radionuclide is possessed, the possession limit is the quantity specified for that radionuclide in 10 CFR 33.100, Schedule A, Column II. If two or more radionuclides are possessed, the possession limit is determined as follows: For each radionuclide, determine the ratio of the quantity possessed to the applicable quantity specified in 10 CFR 33.100, Schedule A, Column II, for that radionuclide. The sum of the ratios for all radionuclides possessed under the license shall not exceed unity.

OFFICIAL RECORD COPY

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MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

06-20775-01

Docket or Reference Number

030-22060

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(12 Continued)

CONDITIONS

- B. Notwithstanding Paragraph A of this Condition and 10 CFR 33.100, Schedule A, Column II, the applicable quantities for the following radionuclides are reduced to:

Carbon 14	100 millicuries
Krypton 85	100 millicuries
Iodine 129	100 microcuries

Any byproduct material other than alpha emitting byproduct material not listed in 10 CFR 33.100, Schedule A

100 microcuries

13. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed 3 years.
- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
- C. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
- E. Sealed sources and detector cells need not be leak tested if:
- (i) they contain only hydrogen 3; or
 - (ii) they contain only a gas; or
 - (iii) the half-life of the isotope is 30 days or less; or
 - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
 - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

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(13. Continued)

CONdiTIONS

- F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The 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 Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source involved, the test results, and corrective action taken.
- G. The licensee is authorized to collect leak test samples for analysis by the licensee. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
14. The licensee shall not use licensed material in or on human beings or in field applications where activity is released except as provided otherwise by specific condition of this license.
15. This license does not authorize the possession of imported equipment, samples, or packages containing radioactive material.
16. The licensee may transport licensed material or deliver licensed material to a carrier for transport in accordance with the provisions of Title 10, Code of Federal Regulations, Part 71, "Packaging of Radioactive Material for Transport and Transportation of Radioactive Material Under Certain Conditions."
17. The licensee shall notify the U. S. Nuclear Regulatory Commission, Region I, 475 Allendale Road, King of Prussia, Pennsylvania 19406, in writing 3 days prior to the establishment of a temporary job site. The notification shall include the address of the temporary facility and the expected duration of activities at the job site. At the conclusion of activities at a temporary job site, the licensee shall submit to the U. S. Nuclear Regulatory Commission, Region I, a copy of surveys performed prior to release of the facility for unrestricted use.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

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(Continued)

CONDITIONS

18. 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 January 9, 1996
- B. Letter dated February 21, 1996



For the U.S. Nuclear Regulatory Commission

Original Signed By:

John R. McGrath

By

Nuclear Materials Safety Branch
Region I

King of Prussia, Pennsylvania 19406

Date JUL 29 1996

JUL 29 1996

William J. Manion
President
NES, Inc.
44 Shelter Rock Road
Danbury, CT 06810

Dear Mr. Manion:

This refers to your license amendment request. Enclosed with this letter is the amended license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

Original Signed By:
John R. McGrath

John R. McGrath
Senior Health Physicist
Division of Nuclear Materials Safety

License No. 06-20775-01
Docket No. 030-22060
Control No. 123347

Enclosure:
Amendment No. 10

DOCUMENT NAME: R:\WPS\MLTR\L0620775.01

To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

OFFICE	DNMS/RI	N	DNMS/RI				
NAME	McGrath						
DATE	06/27/96		06/ /96		06/ /96		06/ /96

OFFICIAL RECORD COPY



44 Shelter Rock Road
Danbury, CT 06810
(203) 796-5000

NES, Inc.

- Integrated Environmental Services
- Engineering & Consulting Services
- Engineered Products

030-22060

June 18, 1996

VIA FEDEX

Mr. Charles Hehl, Director
Division of Radiation Safety & Safeguards
U. S. Nuclear Regulatory Commission, Region I
475 Allendale Road
King of Prussia, PA 19406-1414

Subject: RSO Appointment Request
Re: Materials License No.: 06-20775-01
Docket No.: 030-22060

Dear Mr. Hehl:

Please accept this letter as notification that Brandon L. Graber, NES' Radiation Safety Officer, has resigned from NES effective Friday, June 28, 1996. NES is hereby informing you of our intention to appoint Mr. Joseph Darman as NES' Radiation Safety Officer to replace Mr. Brandon L. Graber. Enclosed is a copy of Mr. Joseph Darman's resume for your review.

Your approval of Mr. Darman as the NES Radiation Safety Officer is hereby requested. Please note that there is no work in progress under the NES license.

If you have any questions regarding the above, please call me at (203) 796-5220.

Sincerely,

William J. Manion
President

WJM/kg

Enclosure

NSG 5936

123347

JUN 19 1996

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JOSEPH J. DARMAN, CHP
Section Manager

NES, Inc.

Experience Summary

Mr. Darman is the Operations Section Manager and Corporate Health Physicist in the Radiological Services Department of NES' Integrated Environmental Services division. His duties include providing technical input and quality oversight for projects at radiologically controlled sites. He also provides overall management oversight of all field decommissioning projects.

Mr. Darman's project experience includes:

Decontamination & Decommissioning:

- Project Manager for the radiological characterization of thorium and uranium contaminated soils and decommissioning plan development for General Electric's Tungsten Products Plant, Euclid, OH.
- Health Physicist providing technical input, quality oversight and management review for the decommissioning of an Americium-241 contaminated building located in Tonawanda, NY.
- Health Physicist/Senior Radiological Engineer providing technical input, quality oversight and management review for the development of a decommissioning plan for the University of Washington's ARGONAUT type training reactor contaminated with mixed fission products.
- Health Physicist/Senior Radiological Engineer providing technical input, quality oversight and management review of decontamination and decommissioning (D&D) cost estimates for Hot Cells contaminated with alpha, beta and gamma emitting nuclides located at Argonne National Laboratories.
- Health Physicist/Senior Radiological Engineer providing technical input, quality oversight and management review for the radiological characterization and development of a decommissioning plan for a site located in Revere, Pennsylvania contaminated with thorium and uranium.
- Oversee field activities during the characterization and remediation of a contaminated municipal sewer district in northern Ohio.
- Provide quality oversight and management review of the implementation of Draft NUREG/CR-5849 "Manual for Conducting Radiological Surveys in Support of License Termination" at a mixed waste pond closure project in Lima, Ohio.
- Health Physicist/Senior Radiological Engineer providing technical input, quality oversight and management review of decontamination and decommissioning (D&D) cost estimates for Los Alamos National Laboratories facilities contaminated with plutonium.
- Project manager for the radiological characterization and decontamination of tritium contaminated facility. Operation entailed emergency response, dose calculations, reports to USNRC and license amendments.
- Project manager for the radiological characterization and decontamination of a thorium contaminated building located in Rochester, N.Y.

**AREAS OF TECHNICAL
EXPERTISE**

- **DECONTAMINATION &
DECOMMISSIONING**
- **HEALTH PHYSICS**
- **TRAINING**

Health Physics:

- Project Manager for the radiological assessment of a site containing thorium and uranium mine tailings located in New York.
- Project manager for the characterization of areas within the Nuclear Lake Site, Pawling, N.Y.
- Supervise field activities and interpret survey results for a Phase I Remedial Investigation/Feasibility Study at Picatinny Arsenal, NJ.
- Project manager for the radiological evaluation and risk assessment of a site potentially contaminated with iodines and tritium located in Billerica, MA.
- Performed a probabilistic safety analysis for a proposed underground radioactive waste disposal facility in Japan.
- Provide health physics support and consultation services to the West Valley Demonstration Project, West Valley, NY.
- Performed an environmental assessment and evaluation of the land surrounding the Western New York Nuclear Service Center for the New York State Energy Research and Development Authority.
- Assisted in license application process by developing Safety Analysis Reports and Dose Estimates for the North Carolina Low-Level Radioactive Waste Disposal Facility.
- Consultant to the Commonwealth of Massachusetts Low-Level Radioactive Waste Management Program. Gathered information to provide assurance that LLW is being managed in a responsible manner, consistent with regulation, to protect public health, safety and the environment. Evaluate licensee programs for extended interim storage of low-level radioactive waste.
- Designed and maintained a health physics counting laboratory to facilitate hands on training of job incumbents in the use, repair and calibration of Canberra high purity germanium detection system, various scintillation and gas proportional counting systems, hand-held radiation detection instruments, air monitoring systems and computer systems.
- Conducted audits of health physics practices and procedures including areas of respiratory protection, dosimetry issuance and processing, bioassay monitoring, hazardous waste management, operational health physics and radioactive waste shipping practices.
- Liaison with NRC inspection staff during an NRC team inspection of maintenance work practices. Represented the utility by fielding NRC staff questions and concerns, and by directing NRC staff to cognizant utility staff.
- Assisted the utility in outage management as an outage coordinator during modifications to technical specification required systems including area radiation monitoring systems, component cooling water systems and process monitoring systems.
- Supervised Health Physics Technicians supporting the utility during outage conditions both in the classroom and in the field.
- Designed the following systems: supply air system for 1000 Ci. Cs-137 source; breathing air system for operators of a post accident sample system; air sample retention device for steam generator channel head workers; shielding support system for steam generator access; and computerized tracking system for source inventory and control; and a computerized screening exam for incumbent Health Physics Technicians.

- Assisted in the operation of a health physics instrument calibration and repair facility for equipment such as the Eberline RO-2, RO-3, E-530, E-520, RM-14, neutron monitoring devices such as rem balls, high level gamma survey instruments such as teletectors, continuous air monitors such as triton III, triton 1055, triton 955, AM2B, AMS2, AMS3 and grab samplers RAS-1 and RAD's.

Training:

- Prepared and conducted training for Emergency Directors, aided in emergency plan scenario development and conducted audits and oversight of the implementation of the emergency plan.
- Designed and implemented a comprehensive health physics training program to satisfy the requirements set forth by the Institute of Nuclear Power Operations (INPO) and the Nuclear Regulatory Commission (NRC).
- Prepared procedures for the implementation of a health physics training programs and the conduct of operational health physics.

UNITED STATES NAVY

10/75 to 10/81 Engineering Laboratory Technician

- Assisted in maintaining an operational health physics and chemistry control program for the United States Navy.

EDUCATION

B.S., Nuclear Technology, University State of New York, 1993.

Certified Health Physicist - Comprehensive Health Physics: American Board of Health Physics, 1992.

PROFESSIONAL AFFILIATIONS

Health Physics Society

Greater New York Chapter Health Physics Society

National Registry of Radiation Protection Technologists

123347

LICENSE FEE REQUIREMENTS

LICENSE FEE AND DEBT COLLECTION BRANCH
DIVISION OF ACCOUNTING AND FINANCE
OFFICE OF THE CONTROLLER
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

NES, INC.
ATTN: WILLIAM J. MANION
PRESIDENT
44 SHELTON ROCK ROAD
DANBURY, CT 06810

TYPE OF ACTION

- ☐ NEW LICENSE
☐ RENEWAL OF LICENSE
☒ AMENDMENT TO LICENSE

REQUESTED DATE

6-18-96

LICENSE NUMBER

06-20775-01

CONTROL NUMBER

123347

I. APPLICATION FEE DUE

Your request for a licensing action is subject to the fee(s) in the category(ies) noted below in accordance with Section 170.31 of the enclosed Federal Register notice. Payment of the fee is required prior to the issuance of the license, renewal, or amendment.

FEE CATEGORY	APPLICATION	RENEWAL	AMENDMENT
3N	\$	\$	\$ 590.00
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$

FEE(s) DUE \$ 590.00
PAYMENT RECEIVED \$
AMOUNT DUE \$ 590.00

☒ Your request was received without the prescribed application fee.

☐ We received your Check No. _____ in the amount of \$ _____. Payment of the additional fee noted above is required.

☐ Your request will increase the scope of your license program. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(d)(2).

☐ Your license expired prior to the receipt of your application for renewal. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(a).

MAKE PAYMENT OF THE FEE(S) TO THE U.S. NUCLEAR REGULATORY COMMISSION AND MAIL THE PAYMENT TO THE ADDRESS LISTED AT THE TOP OF THIS FORM. IF WE DO NOT RECEIVE A REPLY FROM YOU WITHIN 30 CALENDAR DAYS FROM THE DATE LISTED BELOW, WE SHALL ASSUME THAT YOU DO NOT WISH TO PURSUE YOUR APPLICATION AND WILL VOID THIS ACTION.

II. FEE NOT REQUIRED

☐ Enclosed is Check No. _____ which accompanied your request. The fee is not required because:

☐ We received your Check No. _____ in payment of the fee.

☐ The Licensing staff has informed us that your request is to be considered as a continuation of your request dated _____, Control No. _____.

☐ Your request was combined, prior to review, with your request, Control No. _____.

III. CHECK RETURNED

☐ Enclosed is Check No. _____ which was returned to us by the bank for:

- ☐ INSUFFICIENT FUNDS
☐ ACCOUNT CLOSED
☐ OTHER

MAIL THE REPLACEMENT CHECK TO THE ADDRESS LISTED AT THE TOP OF THIS FORM AND REFERENCE THE ABOVE CONTROL NUMBER.

IV. LICENSE ISSUED WITHOUT THE REQUIRED FEE

☐ License No. _____, Amendment No. _____, issued on _____ was issued without the required fee being collected. The fee required is noted in Section I of this form.

☐ The scope of your licensed program was increased. Therefore, your request is subject to the application fee(s) noted in Section I of this form. Refer to Section 170.31 and Footnote 1(d)(2).

☐ Because of the urgency of your request, the license was issued without remittance of the prescribed fee noted in Section I of this form.

SIGNATURE -- LICENSE FEE ANALYST

BRENDA BROWN

LFDCB

BB *BB*

7/8/96

LFDCB

Distribution:

MAF Correspondence FY

LFDCB Chief

Invoice File w/encl

Pending File

LFDCB Analyst

LFDCB R/F *(S)*

DATE

7-8-96

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

(FOR LFMS USE)
INFORMATION FROM LTS

PROGRAM CODE: 03219
STATUS CODE: 0
FEE CATEGORY: 3N
EXP. DATE: 20010331
FEE COMMENTS: NO 2C 3/31/86 NOTIC
DECOM FIN ASSUR REQD: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: NES, INC.
RECEIVED LITE: 960619
DOCKET NO: 3022060
CONTROL NO.: 123347
LICENSE NO.: 06-20775-01
ACTION TYPE: AMENDMENT

2. FEE ATTACHED

AMOUNT: -----
CHECK NO.: -----

3. COMMENTS

SIGNED Rebecca J. Brown
DATE 6/30/96

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED ✓)

1. FEE CATEGORY AND AMOUNT: 3N 8590

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:

AMENDMENT -----
RENEWAL -----
LICENSE -----

3. OTHER -----

SIGNED B. Brown
DATE 7/18/96

I (96)

Log	July 1
Planned	
Check No.	22147
Amount	8590
Fee Category	3N
Type of Fee	AM
Date Check Rec'd	7/18/96
Date Completed	
By	B. Brown