



TETRA TECH EC, INC.

RECEIVED

AUG 19 2009

DNMS

August 7, 2009

U.S. Nuclear Regulatory Commission, Region IV
Attention: Ms. Rachel S. Browder
Nuclear Materials Licensing Branch
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-4005

**SUBJECT: TETRA TECH EC, INC.
REQUEST FOR LICENSE AMENDMENT TO CHANGE THE
RADIATION SAFETY OFFICER, ADDRESS OF LICENSE AND
ADDRESS OF PRIMARY RECORD HOLDER FOR RADIOACTIVE
MATERIALS LICENSE NO. 46-27767-01 DOCKET NUMBER 030-36414**

Dear Ms. Browder:

The purpose of this letter is to request that the license be amended in the following ways:

1. Tetra Tech EC, Inc. (TtEC) requests that license condition 7 be amended to assign Mr. Erik Abkemeier as the Radiation Safety Officer for the license in place of Mr. Elbert G. Bowers.
2. TtEC requests that the address for the license be changed to:

Tetra Tech EC, Inc.
1000 The American Road
Morris Plains, NJ 07950

TtEC understands that this may result in an administrative change in jurisdiction from Nuclear Regulatory Commission (NRC) Region IV to NRC Region I, as well as a change in the NRC state code license number. TtEC further understands that New Jersey is scheduled to achieve Agreement State status for the purpose of licensing radioactive material; however, TtEC would like to maintain its NRC broad scope license in order to maintain the capability of performing radioactive material remediation activities at federal sites under NRC jurisdiction.

3. TtEC requests that all correspondence concerning the subject NRC license be sent to:

Attn: Erik Abkemeier
Twin Oaks I, Suite 309
5700 Lake Wright Drive
Norfolk, Virginia 23502

TWIN OAKS I, SUITE 309, 5700 LAKE WRIGHT
DRIVE,
NORFOLK, VA 23502
TEL 757.461.3768 FAX 757.461.4148
WWW.TTECI.COM

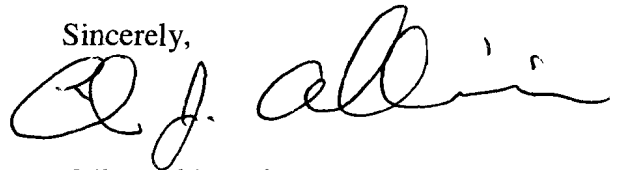
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This location will maintain all NRC license related records at the termination of each respective radioactive material remediation project. Tetra Tech recognizes that this address may be listed as a separate license condition.

Attachment (1) provides a signed NRC Form 313 for the amendment request. Attachment (2) provides a resume for Mr. Erik Abkemeier documenting his experience in health physics and radiation safety. Attachment (3) provides an organizational chart delineating the line of authority for the Radiation Safety Officer. Attachment (4) provides a signed "Delegation of Authority to the Radiation Safety Officer" letter.

Should you have any questions concerning this amendment request, please contact me at (757)944-0921 or (757)466-4906.

Sincerely,



Erik J. Abkemeier
Corporate Health Physics Manager
Tetra Tech EC, Inc.
Twin Oaks I, Suite 309
5700 Lake Wright Drive
Norfolk, VA 23505

NRC FORM 313
(3-2009)
10 CFR 30, 32, 33,
34, 35, 36, 39, and 40

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 3/31/2012

APPLICATION FOR MATERIALS LICENSE

Estimated burden per response to comply with this mandatory collection request: 4.3 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects.resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

OFFICE OF FEDERAL & STATE MATERIALS AND ENVIRONMENTAL MANAGEMENT PROGRAMS
DIVISION OF MATERIALS SAFETY AND STATE AGREEMENTS
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

LICENSING ASSISTANCE TEAM
DIVISION OF NUCLEAR MATERIALS SAFETY
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

MATERIALS LICENSING BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, IL 60532-4352

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
612 E. LAMAR BOULEVARD, SUITE 400
ARLINGTON, TX 78011-4125

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.

1. THIS IS AN APPLICATION FOR (Check appropriate item)

A. NEW LICENSE

B. AMENDMENT TO LICENSE NUMBER 46-27767-01

C. RENEWAL OF LICENSE NUMBER _____

2. NAME AND MAILING ADDRESS OF APPLICANT (include ZIP code)

TetraTech ECI
1000 The American Road
Morris Plains, NJ 07950

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

Temporary job sites under NRC jurisdiction

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Erik Abkemeier

TELEPHONE NUMBER

(757) 944-0921

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL.
a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY	AMOUNT ENCLOSED	\$

13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39, AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 82 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

CERTIFYING OFFICER -- TYPED/PRINTED NAME AND TITLE

Philip Bartley, Vice President, ESQ

SIGNATURE



DATE

8/10/09

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

472381

ERIK J. ABKEMEIER, CHP, PE, CSP, CHMM
Corporate Health Physics Manager

EXPERIENCE SUMMARY

Certified health physicist with over 20 years of professional experience in the fields of managing, developing and evaluating radiation safety programs, compliance, and training as well as radiological engineering. Demonstrated expertise in the field of DOD, NRC and DOE regulations. Leadership skills in managing administrative and technical personnel.

Corporate Radiation Safety Officer/Health Physics Manager responsible for providing health physics technical direction, support and supervision to various Tetra Tech EC, Inc. remediation activities and design activities. Responsibilities include evaluating facility and equipment design for radiological health and safety requirements and reviewing and approving project field procedures that involve working with radioactive materials.

EDUCATION

BS, Electrical Engineering, 1988, Duke University
Masters, Health Physics, 2003, Illinois Institute of Technology

REGISTRATIONS/CERTIFICATIONS

Certified Health Physicist, 11/01
Professional Engineer, Nuclear, VA, 031781, 1/18/01
Certified Safety Professional, 17599, 4/17/03
Certified Hazardous Materials Manager, 15019, 4/16/09
National Registry of Radiation Protection Technologists, 2/15/00

TRAINING

NAVSEADET RASO Radiation Safety Officer Course – 1996
J. L. Shepherd AN/UDM-1A and AN/UDM-1B Course -1996
NRC Licensing Practices and Procedures Course – 1996
NRC Inspection Procedures Course -1996
ORAU Environmental Monitoring for Radioactivity Course – 1997
ORAU Radiological Surveys in Support of Decommissioning Course - 1997
Troxler Nuclear testing Course – 1998
Niton Spectrum Analyzer Course – 1998
NRC Security Increased Controls Training Course – 2007
Sentinel Inspection and Maintenance of Industrial Radiography Equipment – 2007
Sentinel Sealed Source Retrieval Course - 2007

CORPORATION PROJECT EXPERIENCE

PREVIOUS EXPERIENCE

Health Physicist – Radiation Program Manager, April 2007 - June 2009
Department of Defense, Radiological Affairs Support Office, Yorktown, VA

Chaired working groups responsible for drafting radiation safety policy and implementation guidance applicable to all naval industrial uses of radioactive material and radiation generating devices. Developed, disseminated, and verified implementation of, policy for emerging radiation safety regulations published



ERIK J. ABKEMEIER, CHP, PE, CSP, CHMM
Corporate Health Physics Manager

by the Nuclear Regulatory Commission. Managed over 100 naval radiation safety programs to ensure compliance with Nuclear Regulatory Commission regulations and guidance. Evaluated radiation safety programs including instrumentation, operating and emergency procedures, and compliance with Nuclear Regulatory Commission regulations, naval directives and current health physics practices.

Radiation Control Department Head, July 2003 - April 2007

Thomas Jefferson National Accelerator Facility, Newport News, VA

Managed all elements of 10 CFR 835 Radiation Protection Program, including DOELAP accredited external dosimetry program. Managed an environmental radiation control program including permits for, and measurement of, groundwater and soil activation, airborne radioactivity, and skyshine neutron exposure. Responsible for planning and budgeting, regulatory compliance, radioanalytical laboratory management, general radiation safety and staff training, calculation and measurement of occupational and environmental radiation source terms, accelerator shielding design, and interlock/safety system specifications and audits. The radiological controls resources included a 1.3 million dollar budget, two professionals and six technologists in a radiological controls program which serves over 1100 radiation workers, comprised of approximately 600 staff and 500 international itinerant experimental equipment users. Additional duties included serving as Program Deputy; a rotating position responsible for coordinating the daily application of Jefferson Lab resources to ensure the experimental Physics Program is conducted with a minimum of interruptions. Developed shielding designs throughout accelerator complex, including Experimental Hall D for the Continuous Electron Beam Accelerator Facility. Conducted Environmental, Health and Safety surveillances and inspections, and developed recommendations for improvements in Integrated Safety Management at Jefferson Lab. Managed and developed Radiation Control Technologists and Health Physicists for career growth.

Health Physicist – Radiation Protection Manager, July 1996 - July 2003

Department of Defense, Radiological Affairs Support Office, Yorktown, VA

Managed over 100 naval radiation safety programs to ensure compliance with Nuclear Regulatory Commission regulations and guidance. Prepared and reviewed projects, studies and special tasks in support of radiological safety. Evaluated radiation safety programs including instrumentation, operating and emergency procedures, and compliance with NRC regulations, naval directives and current health physics practices.

Nuclear Engineer – Control Systems, November 1988 - July 1996

Department of Defense, Norfolk Naval Shipyard, Portsmouth, VA

Reported to Control Engineering Division Head with responsibility for engineering aspects of maintenance, repair, modification and testing of reactor plant electronic control and instrumentation systems. Developed detailed process and technical instructions for the installation, repair and testing of reactor plant control systems requiring extensive knowledge of reactor plant systems, safety controls and administrative controls. Managed teams of engineers and technicians during installation and repair of reactor plant electronic control and instrumentation systems. Planned and coordinated the overhaul and repair of electrical control systems with various phases of nuclear work during overhaul. Monitored equipment performance, operational methods, and trends, and ensured completeness of results by following the work progress during assembly and subsequent installation on the vessel.

PUBLICATIONS & PRESENTATIONS

Ferguson, C., R. May and E. Abkemeier, 2006. Radiation Considerations in the Design of Hall D at Thomas Jefferson National Accelerator Facility. Presentation at the Annual Meeting of the Health Physics Society, Providence, Rhode Island.

PROFESSIONAL ACCOMPLISHMENTS



ERIK J. ABKEMEIER, CHP, PE, CSP, CHMM
Corporate Health Physics Manager

Saved over \$750,000 in radiation shielding construction costs associated with the Thomas Jefferson National Accelerator Facility Continuous Electron Beam Accelerator Facility Experimental Hall D Complex.

PROFESSIONAL AFFILIATIONS

Health Physics Society, National Chapter-Member
Health Physics Society, Virginia Chapter-Past President, Science Teacher Workshop Coordinator
ABHP Exam Part II Committee-Member

DISCIPLINE CODES

Safety/Occupational Health Engineer, Primary
Nuclear Engineer

SKILL SET

Certified Health Physicist
Decontamination & Decommissioning Operations
Decontamination & Decommissioning Planning
Inspections/Audits
Licensing
Low Level Radioactive Waste
Mixed Waste Management
Nuclear Regulatory Commission
Operational Health Physics
Shielding Design/Analysis
Shipping/Transportation of Radioactive Materials
Training
Waste Minimization
NPDES
NESHAPs
Regulatory Compliance

TECHNICAL EXPERTISE

One of the country's experts in DOE accelerator radiation control programs.

LANGUAGE SKILLS

English *Knowledge Level: Primary: Fluent*
Spanish *Knowledge Level: Secondary: Familiar*

PROFESSIONAL REFERENCES

Steve Suhring, Operability Manager, Thomas Jefferson National Accelerator Facility, 757-269-7670, suhring@jlab.org
Laurie Lowman, Lead Environmental Protection Manager, Naval Sea Systems Command Detachment Radiological Affairs Support Office, 757-887-7650, laurie.lowman@navy.mil

RELATED COMPANY INFORMATION

Payroll Number: 526441
Employment Status: Full



ERIK J. ABKEMEIER, CHP, PE, CSP, CHMM
Corporate Health Physics Manager

Preferred First Name: Erik Abkemeier

Office Location: Norfolk, VA

Hire Date: 6/29/09

Years with Other Firms: 21

Years with Current Firm: 0

Total Years Experience: 21

Supervisor: Philip Bartley, VP, Environmental Safety & Quality Services

Office Phone: 757-466-4906

Cell Phone: 757-944-0921

Fax: 757-461-4148

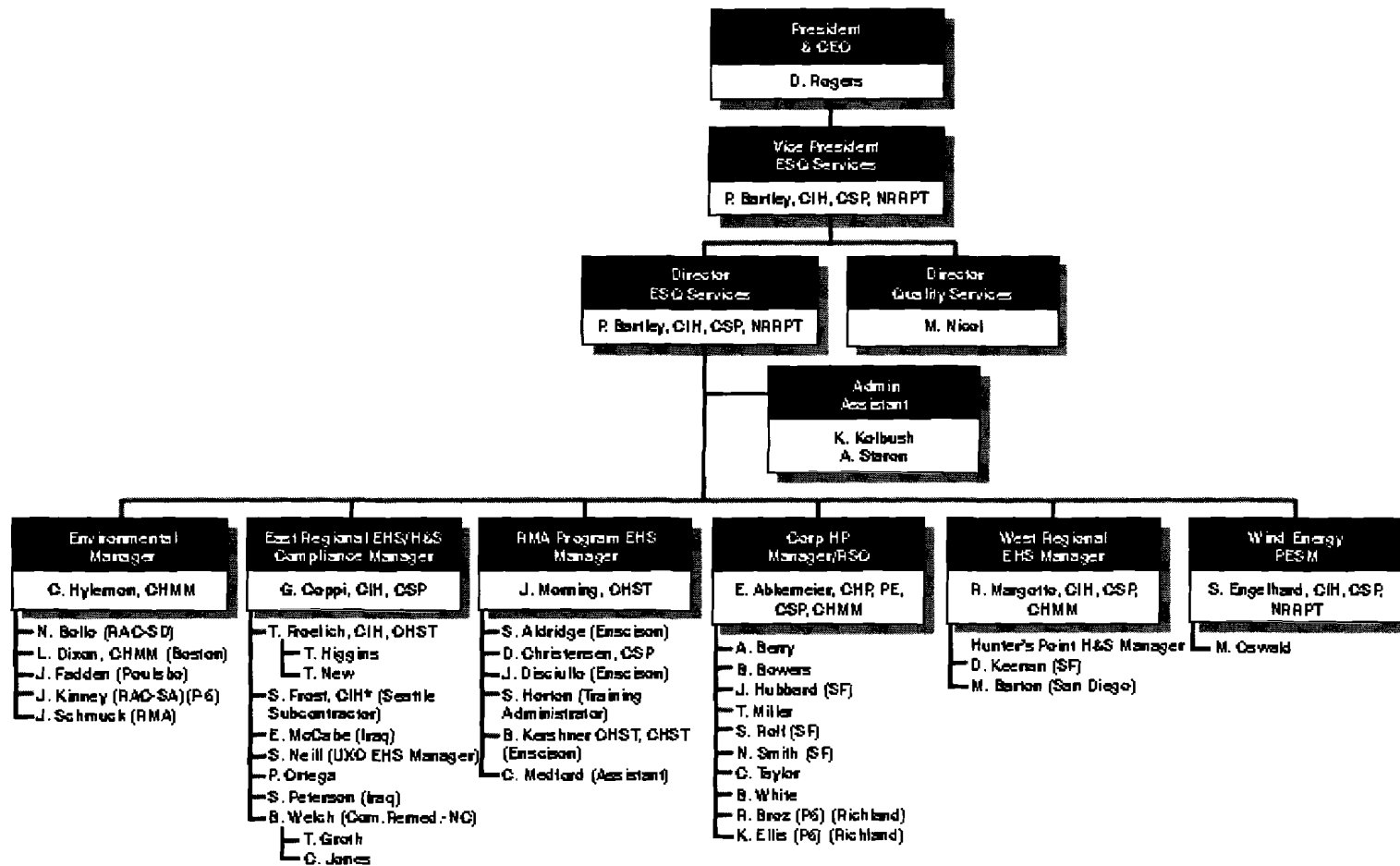
E-mail Address: Erik.Abkemeier@tetrattech.com

Other E-mail Address (if any): erik.abkemeier@verizon.net

Resume Last Revised: 6/29/09



Environmental, Safety, and Quality (ESQ) Department Tetra Tech EC, Inc.





TETRA TECH

August 3, 2009
TTEC-ADM-09-0063

Mr. Don Rogers
President & CEO
Tetra Tech EC, Inc.
1000 The American Road
Morris Plains, NJ 07950

SUBJECT: Eric Abkemeier

Dear Mr. Rogers:

This letter formally documents that Mr. Erik Abkemeier has been appointed Radiation Safety Officer for Tetra Tech ECI and is responsible for ensuring the safe use of byproduct material under the Nuclear Regulatory Commission Type B Broad Scope license number 46-27767-01. The Radiation Safety Officer is responsible for managing the radiation safety program; identifying radiation safety problems; initiating, recommending, or providing corrective actions; verifying implementation of corrective actions; and ensuring compliance with regulations for the use of byproduct material. The Radiation Safety Officer is hereby delegated the authority necessary to meet these responsibilities.

The Radiation Safety Officer has the authority to immediately stop any operations involving the use of byproduct material in which health and safety may be compromised or may result in non-compliance with NRC requirements.

Sincerely,



Philip Bartley, CIH, CSP
VP Environmental Safety & Quality Services

PB/mae

cc: E. Abkemeier

Attachment (4) ↓

ACCEPTANCE REVIEW MEMO (ARM)

Licensee: Tetra Tech EC. Inc.

License: 46-27767-01

Docket: 030-36414

Mail Control: 472381

Type of Action: Amend

Date of Requested Action: 8-07-09

Reviewer Assigned:

ARM reviewer(s): Torres

Response	Deficiencies Noted During Acceptance Review
	<ul style="list-style-type: none"> [] Open ended possession limits. Submit inventory. Limit possession. [] Submit copies of latest leak test results. [] Add IC L.C./Fingerprint LC, add SUNSI markings to license. [] Confirm with licensee if they have NARM material. [] Change of contact information (RSO), send request to update IC database.

Reviewer's Initials: _____

Date: _____

<input type="checkbox"/> Yes <input type="checkbox"/> No	Request for unrestricted release Group 2 or >. Consult with Bravo Branch.
<input type="checkbox"/> Yes <input type="checkbox"/> No	Termination request < 90 days from date of expiration
<input type="checkbox"/> Yes <input type="checkbox"/> No	Expedite (medical emergency, no RSO, location of use/storage not on license, RAM in possession not on license, other)
<input type="checkbox"/> Yes <input type="checkbox"/> No	TAR needed to complete action.
Branch Chief's and/or HP's Initials: _____	
Date: _____	

SUNSI Screening according to RIS 2005-31	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sensitive and Non-Publicly Available if <u>any</u> item below is checked
General guidance:	
_____	RAM = or > than Category 3 (Table 1, RIS 2005-31), use Unity Rule
_____	Exact location of RAM [suite #, bldg. #, location different from mailing address] (whether = or > than Category 3 or not)
_____	Design of structure and/or equipment (site specific)
_____	Information on nearby facilities
_____	Detailed design drawings and/or performance information
_____	Emergency planning and/or fire protection systems
Specific guidance for medical, industrial and academic (above Category 3):	
_____	RAM quantities and inventory
_____	Manufacturer's name and model number of sealed sources & devices
_____	Site drawings with exact location of RAM, description of facility
_____	RAM security program information (locks, alarms, etc.)
_____	Emergency Plan specifics (routes to/from RAM, response to security events)
_____	Vulnerability/security assessment/accident-safety analysis/risk assess
_____	Mailing lists related to security response
Branch Chief's and/or HP's Initials: <u>RJR</u>	
Date: <u>9-15-09</u>	

9-16-09

DATE

This is to acknowledge the receipt of your letter/application dated 8-07-09, and to inform you that the initial processing, which includes an administrative review, has been performed.

There were no administrative omissions. Your application will be assigned to a technical reviewer. Please note that the technical review may identify other omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card:

The action you requested is normally processed within 90 days.

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned Mail Control Number 472381.
When calling to inquire about this action, please refer to this mail control number.
You may call me at 817-860-8103.

Sincerely,



Licensing Assistant

BETWEEN: : (FOR LFMS USE)
 : INFORMATION FROM LTS
 : -----
 License Fee Management Branch, ARM : Program Code: 03236
 and : Status Code: 0
 Regional Licensing Sections : Fee Category: 1D 2C 3N 4B
 : Exp. Date: 20140630
 : Fee Comments:
 : Decom Fin Assur Reqd: Y
 : ::

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED
 Applicant/Licensee: TETRA TECH EC INC
 Received Date: 20090819
 Docket No: 3036414
 Control No.: 472381
 License No.: 46-27767-01
 Action Type: Amendment

2. FEE ATTACHED
 Amount: _____
 Check No.: /

3. COMMENTS

Signed Colleen Murnahan
 Date 9-04-09

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /_/)

1. Fee Category and Amount: _____

2. Correct Fee Paid. Application may be processed for:
 Amendment _____
 Renewal _____
 License _____

3. OTHER _____

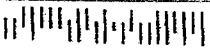
Signed _____
 Date _____

TETRA TECH
5700 LAKE WALKER
SUITE 309
NORFOLK, VA



NORFOLK, VA PERMIT 2350
MON 17 AUG 2003 PM 5:00

U.S. Nuclear Regulatory Commission, Region IV
Attention: Ms. Rachel S. Browder
Nuclear Materials Licensing Branch
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-4005



Norfolk VA P.O. 235
MON 17 AUG 2009 PM

U.S. Nuclear Regulatory Commission, Region IV
Attention: Ms. Rachel S. Browder
Nuclear Materials Licensing Branch
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-4005

47288