



DEPARTMENT OF THE ARMY
WHITE SANDS TEST CENTER
U.S. ARMY WHITE SANDS MISSILE RANGE
100 Headquarters Avenue
WHITE SANDS MISSILE RANGE, NEW MEXICO 88002-5000

REPLY TO
ATTENTION OF

03 MAR 2014

TEDT-WS-ISO

MEMORANDUM THRU Commander, U.S. Army Test and Evaluation Command
(CSTE-OP/Gurvis Davis), 2202 Aberdeen Boulevard, Aberdeen Proving Ground,
MD 21005-5001

FOR U.S. Nuclear Regulatory Commission, Region IV, ATTN: License Assistant,
1640 East Lamar Boulevard, Arlington, TX 76011-4125

SUBJECT: Request for Amendment to NRC Materials License No. 30-02405-10

1. Reference page 2 Materials License No. 30-2405-10 CONDITIONS Item 11.B, Radiation Safety Officer.
2. The White Sands Missile Range requests the approval of Mr. Ken K. Kawabata as the Radiation Safety Officer for the Radioactive Material License No. 30-02405-10. Mr. Kawabata's resume' is provided as an enclosure to this memorandum.
3. Ms. Mary E. Donahue has been the authorized Radiation Safety Officer for the license since December 12, 2011 (amendment no. 23)
4. Upon approval, Mr. Kawabata will replace Ms. Donahue as the primary radiation safety person for the Radioactive Material License No. 30-02404-10.
5. The point of contact for this request is Ken Kawabata, CHP, 575-678-1168.

Encl
as

GWEN BINGHAM
Major General, USA
Commanding

PUBLIC

- ☐ Immediate Release
☒ Normal Release

NON-PUBLIC

- ☐ A.3 Sensitive-Security Related
☐ A.7 Sensitive Internal
☐ Other:

Reviewer: RW Date: 3-24-14

RECEIVED

MAR 14 2014

DNMS
583406

APPENDIX A

U.S. NUCLEAR REGULATORY COMMISSION

TRAINING AND EXPERIENCE BROAD SCOPE RADIATION SAFETY OFFICER

1. NAME OF RSO: Ken K. Kawabata		2. EDUCATION: B.S. Chemistry		
3. CERTIFICATION				
SPECIALITY BOARD	CATEGORY	MONTH AND YEAR CERTIFIED		
American Board of Health Physics (ABHP)	CHP	11/2005		
4. TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES				
FIELD OF TRAINING	LOCATION AND DATE OF TRAINING	CLOCK HOURS IN LECTURE/ LABORATORY	CLOCK HOURS OF SUPERVISED ON-THE-JOB EXPERIENCE	
A. RADIATION PHYSICS AND INSTRUMENTATION	1) Mare Island Naval Shipyard, Vallejo, CA 1985-1990 2) Westinghouse Hanford Company, Richland, WA 1990-1994 3) U.S. Department of Energy, Richland, WA 1994-1996 4) Stanford University, Menlo Park, CA 1999-2000 5) Fluor Hanford, Richland, WA 2000-2003 6) Westinghouse, Richland, WA 2003 7) University of North Carolina, Chapel Hill, NC 2004-2005 8) Energysolutions, Salt Lake City, UT 2005-2007 9) ECC, Lakewood, CO 2007-2008 10) USEPA, Las Vegas, NV 2008-2009 11) Geosyntec, Ipoh, Malaysia 2009-2012 12) White Sands Missile Range 2012-present	>300 hrs	>4000 hrs	
B. RADIATION PROTECTION	1,2,3,4,5,6,7,8,9,10,11,12	>300 hrs	>4000 hrs	
C. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY	1,2,3,4,5,6,7,8,9,10,11,12	>300 hrs	>4000 hrs	
D. RADIATION BIOLOGY	1,2,3,4,5,6,7,8,9,10,11,12	>300 hrs	>4000 hrs	
E. RADIOPHARMACEUTICAL CHEMISTRY	2,7	>50 hrs	>4000 hrs	
5. EXPERIENCE WITH RADIOISOTOPES				
ISOTOPE	CI USED AT ONE TIME	LOCATION	CLOCK HOURS	TYPE OF USE
Am-241, Tc-99, Pu-239, Sr-90, Cs-137	1e-6 4000	1,2,3,4,5,6,9,10,11 7	>300 >300	Calibration Sources Tissue Irradiations
Elements 1-95	1	8	>300	Waste Disposal
Co-60	144,000	12	50	Equipment Tests

6. EXPERIENCE SUPERVISING USE OF RADIOISOTOPES

ISOTOPE	MAXIMUM ACTIVITY	LOCATION	CLOCK HOURS	TYPE OF USE
Cs-137, Sr-90, P-32, H-3, C-14, I-131, I-125, Tc-99m	100 mCi	7	>300 hrs	Research and Medical Use
Co-60, Cs-137, Th-230, U-238, Pu-239, Multi- nuclide sources	1 uCi	1,2,3,4,5,6,8,9,10,11,12	>300 hrs	Calibration and Check Sources

7. PRACTICAL EXPERIENCE

ACTIVITY	LOCATION	EXPLANATION
PERFORMED SAFETY EVALUATIONS OF FACILITIES AND EQUIPMENT OF PROPOSED USES.	2,3,4,5	Performed audits and did nuclear safety review for USQs, SARs, SARP's, and design reviews
EVALUATED QUALIFICATIONS OF AUTHORIZED USERS AND INDIVIDUALS WORKING UNDER THE SUPERVISION OF AUTHORIZED USERS FOR PROPOSED USES.	7	Evaluated qualification of researchers and labs prior to submittal of authorized user application to RSC
CONDUCTED A LABORATORY AUDIT PROGRAM. <ul style="list-style-type: none"> ◆ RESEARCH AND DEVELOPMENT LABS ◆ MEDICAL LABS - NUCLEAR MEDICINE, ONCOLOGY, ETC. 	2,3,4,5,7	Performed audits and surveillances of laboratories and facilities
MAINTAINED PERSONNEL MONITORING PROGRAM FOR DETERMINING EXTERNAL EXPOSURE <ul style="list-style-type: none"> ◆ SELECT APPROPRIATE DEVICES ◆ MONITORED EXPOSURE RECORDS ◆ ESTABLISHED EXPOSURE INVESTIGATIVE LEVELS 	7,8,11	Managed external dosimetry and ALARA programs
MAINTAINED A BIOASSAY PROGRAM FOR DETERMINING INTERNAL EXPOSURE <ul style="list-style-type: none"> ◆ DETERMINED METHOD: IN-VIVO AND IN-VITRO ◆ ESTABLISHED ACTION LEVELS ◆ EMERGENCY FOLLOW-UP ACTIONS 	7,8	Maintained whole body counter and bioassay program. Performed internal dosimetry calculations based upon bioassay results.
CALCULATED INTERNAL AND EXTERNAL RADIATION DOSES.	7,8	Provide information for NRC form 5
MONITORED AND MAINTAINED ABSOLUTE AND OTHER SPECIAL FILTER SYSTEM ASSOCIATED WITH THE USE, STORAGE, OR DISPOSAL OF RADIOACTIVE MATERIAL.	1,2,3,4,5,6,7,8,9,10,11,12	Managed effluent release program to include filter systems, stack monitoring, and area monitoring of effluents
EVALUATED, SELECTED, DESIGNED, AND SUPERVISED MAINTENANCE OF PROCESS CONTROL AND CONFINEMENT SYSTEMS, SUCH AS GLOVEBOXES AND HOODS.	2,3,10	Assisted in new laboratory design
PERFORMED SHIELDING EVALUATIONS, INCLUDING DETERMINATION OF TYPE AND AMOUNT NEEDED.	1,2,3,5,7	X-ray room design qualified expert and shielding to support work
CALCULATED RADIOACTIVE DECAY, BUILDUP, AND SECULAR AND TRANSIENT EQUILIBRIUM.	8,10,11	Radium analytical determination and radon/thoron monitoring

ACTIVITY	LOCATION	EXPLANATION
EVALUATED, SELECTED, MAINTAINED, AND EFFECTIVELY USED RESPIRATORY PROTECTIVE EQUIPMENT.	1,2,5,6,10,11	Selected and used respiratory equipment for work and emergency response
MAINTAINED A CONTAMINATION CONTROL PROGRAM <ul style="list-style-type: none"> ◆ AMBIENT RADIATION SURVEYS ◆ CONTAMINATION SURVEYS ◆ AIR SAMPLING PROGRAM ◆ SEALED SOURCE LEAK TESTING ◆ SAMPLE ANALYSIS 	1,2,3,4,5,6,7,8,9,10,11,12	Managed or performed surveys to support contamination control and radiation monitoring programs
INVESTIGATIONS <ul style="list-style-type: none"> ◆ OVEREXPOSURES ◆ ACCIDENTS, SPILLS, LOSSES, THEFTS ◆ UNAUTHORIZED RECEIPTS, USES, TRANSFERS, DISPOSALS ◆ MISADMINISTRATIONS 	2,3,5,7	Performed investigation of radioactive spills and personnel contamination events.
CONDUCTED RADIATION PROTECTION TRAINING FOR FACILITY PERSONNEL. <ul style="list-style-type: none"> ◆ AUTHORIZED USERS AND LAB WORKERS <ul style="list-style-type: none"> ◆ ANIMAL CARETAKERS ◆ NURSING STAFF ◆ INCINERATOR OPERATORS <ul style="list-style-type: none"> ◆ ANCILLARY STAFF ◆ SECURITY ◆ WASTE PROCESSORS/HANDLERS 	7,8	Trained authorized user and waste processors/handlers
DEVELOPED RADIATION SAFETY MANUALS	4, 7,11	Developed Radiation Protection Plans and Environmental Monitoring Plans
SELECTED INSTRUMENTATION ASSOCIATED WITH THE MEASUREMENT OF RADIATION <ul style="list-style-type: none"> ◆ SURVEY INSTRUMENTS (GM, ION CHAMBER, SCINTILLATION) ◆ COUNTING EQUIPMENT ◆ SPECIAL EQUIPMENT (DOSE CALIBRATOR, DIRECT READING DOSIMETER, AIR SAMPLER) 	1,2,3,4,5,6,7,8,9,10,11,12	Selected and purchased radiation measuring instrumentation and ancillary supporting instrumentation
PERFORMED INSTRUMENT CALIBRATIONS	4,7,8,11	Calibrated portable and bench/laboratory radiation measuring instruments
COORDINATED MATERIAL INVENTORY AND ACCOUNTABILITY PROGRAM <ul style="list-style-type: none"> ◆ MONITORED RECEIPT, USE, DECAY, TRANSFER, AND DISPOSAL 	7	Performed these functions for UNC Hospitals
COORDINATED RADIOACTIVE WASTE DISPOSAL PROGRAM <ul style="list-style-type: none"> ◆ EFFLUENT MONITORING <ul style="list-style-type: none"> ◆ COLLECTION ◆ TREATMENT ◆ PACKAGING ◆ DISPOSAL 	4,6,7,9,11	Managed waste disposal program
PREPARED RADIOACTIVE PACKAGES FOR TRANSPORTATION.	7,11	

ACTIVITY	LOCATION	EXPLANATION
DEVELOPED AND MAINTAINED A FACILITY EMERGENCY PLAN FOR RESPONDING TO RELEASE OF RADIOACTIVE MATERIAL.	1,2,3,4,5,6,7,8,9,10,11,12	All radiological/nuclear facilities I worked at had an emergency plan for responding to the release of radioactive material
DETERMINED NEED FOR FINANCIAL ASSURANCE FOR DECOMMISSIONING.	7,10	New construction of research buildings and laboratories
DEVELOPED AND MAINTAINED DECOMMISSIONING FINANCIAL ASSURANCE FUNDING PLAN.	7	University agreement to support decommissioning funding

8. PROFESSIONAL ORGANIZATIONS

Health Physics Society

9. AWARDS, SCIENTIFIC PRESENTATIONS AND PUBLICATIONS

10. SIGNATURE AND CERTIFICATION

I certify that, to the best of my knowledge and belief, all of my statement is true, correct, complete, and made in good faith.

SIGNATURE		DATE SIGNED (Month, day, year)
Ken K. Kawabata	KAWABATA.KEN.K.11793 65410 <small>Digitally signed by KAWABATA.KEN.K.1179365410 DN: c=US, ou=U.S. Government, ou=DOE, ou=PSD, ou=USA, cn=KAWABATA.KEN.K.1179365410 Date: 2014.02.10 14:01:51 -0700</small>	April 6, 2012



Mail Center 6-21817
EEN BLVD
oving Ground, 21005-5001

AN EQUAL OPPORTUNITY EMPLOYER



51
U.S. POSTAGE PITNEY BOWES
ZIP 21005 \$001.19⁰
02 IN
0001368865 MAR 17 2014

SPECIAL BUSINESS

OR PRIVATE USE \$300

RECEIVED

MAR 14 2014

DNMS

FIRST CLASS

US NUCLEAR REGULATORY COMMISSION REGION IV
Att: JACKIE COOKE
1600 EAST LAMAR BLVD
ARLINGTON, TX 76011





DATE

03/19/2014

NAME AND ADDRESS OF APPLICANT AND/OR LICENSEE

Department of the Army
Commander, White Sands Missile Range
ATTN: Mary E. Donahue
Radiation Safety Officer
BLDG 21225 TEDT-WS-SV-P
White Sands Missile Range, NM 88002-5158

LICENSE NUMBER

30-02405-10

MAIL CONTROL NUMBER

583406

LICENSING AND/OR TECHNICAL REVIEWER

ch

This is to acknowledge the receipt of your:

☒ LETTER and/or ☐ APPLICATION DATED: 03/03/2014

The initial processing, which included an administrative review, has been performed.

☐ AMENDMENT ☐ TERMINATION ☐ NEW LICENSE ☒ RENEWAL

- ☐ There were no administrative omissions identified during our initial review.
- ☐ This is to acknowledge receipt of your application for renewal of the material(s) license identified above. Your application is deemed timely filed, and accordingly, the license will not expire until final action has been taken by this office.
- ☐ Your application for a new NRC license did not include your taxpayer identification number. Please fill out NRC Form 531, located at the following link:

<http://www.nrc.gov/reading-rm/doc-collections/forms/nrc531.pdf>

Send the completed NRC Form 531, by facsimile, to the following number: (301) 415-5387

A copy of your action has been emailed to our License Fee and Accounts Receivable Branch, in our Headquarters office in Rockville, MD. You will be contacted separately if there is a fee issue involved.

Your application has been assigned the above listed **MAIL CONTROL NUMBER**. When calling to inquire about this action, please refer to this control number. Your application has been forwarded to a technical reviewer. Please note that the technical review, which is normally completed within 180 days for a renewal application (90 days for all other requests), may identify additional omissions or require additional information. If you have any questions concerning the processing of your application, our contact information is listed below:

Region IV
U. S. Nuclear Regulatory Commission
DNMS/NMSB - B
1600 E. Lamar Boulevard
Arlington, TX 76011-4511
(817) 200-1103 or (817) 200-1140

BETWEEN:

Accounts Receivable/Payable
and
Regional Licensing Branches

[FOR ARPB USE]
INFORMATION FROM WBL

Program Code: 03521
Status Code: Pending Amendment
Fee Category: 2B 3G
Exp. Date:
Fee Comments: 170.11(A)(5)
Decom Fin Assur Reqd: Y

License Fee Worksheet - License Fee Transmittal

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: ARMY, DEPARTMENT OF THE
Received Date: 03/14/2014
Docket Number: 3009345
Mail Control Number: 583406
License Number: 30-02405-10
Action Type: Amendment

2. FEE ATTACHED

Amount: _____

Check No.: _____

3. COMMENTS

Signed: _____

Date: _____

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: _____