

Dominion Generation
Mount Storm Power Station
436 Dominion Blvd., Mount Storm, WV 26739-8632
Web Address: www.dom.com



Certified Mail
Return Receipt Requested

August 25, 2016

Licensing Assistance Team
Division of Nuclear Materials Safety
U. S. Nuclear Regulatory Commission, Region I
2100 Renaissance Boulevard, Suite 100
King of Prussia, PA 19406-2713

Br. 2
03037331
47-31184-01

REC RG1 08 30 16 AM 07 03

**MOUNT STORM POWER STATION RENEWAL APPLICATION FOR MATERIAL
LICENSE**

Dear Sir or Madam:

Please find enclosed NRC Form 313, Application for Material License. The renewal application is for Californium 252 that is being used in a cross-belt elemental analyzer for coal analysis at the Mount Storm Power Station located in Mount Storm, WV. There is no fee included with the application due to being a renewal application. The Radiation Safety Officer training certification is also included with this renewal application.

If you have any questions, please contact Kristin Edwards, current RSO and Supervisor Environmental at 304-259-4402.

Sincerely,

A handwritten signature in black ink, appearing to read "Peter M. Balkus".

Peter M. Balkus
Director Power Generation Station III
Mount Storm Power Station

Enclosures

591822
NMSS/RGN1 MATERIALS-002

(06-2016)
10 CFR 30, 32, 33, 34
35, 36, 37, 39, and 40



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 FOIA, Privacy, and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to Infocollections.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 CURRENT VOLUMES OF THE NUREG-1556 TECHNICAL REPORT SERIES ("CONSOLIDATED GUIDANCE ABOUT MATERIALS LICENSES") FOR DETAILED INSTRUCTIONS FOR COMPLETING THIS FORM: <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/>. SEND TWO COPIES OF THE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

MATERIALS SAFETY LICENSING BRANCH
DIVISION OF MATERIAL SAFETY, STATE, TRIBAL AND RULEMAKING PROGRAMS
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS
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
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PA 19406-2713

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
1600 E. LAMAR BOULEVARD
ARLINGTON, TX 76011-4511

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

☒

C. RENEWAL OF LICENSE NUMBER

47-31184-01

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

VEPCO dba Dominion Generation
436 Dominion Blvd
Mt. Storm, WV 26739

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

436 Dominion Blvd
Mt. Storm, WV 26739

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Kristin Edwards

BUSINESS TELEPHONE NUMBER

(304) 259-4402

BUSINESS CELLULAR TELEPHONE NUMBER

(240) 561-0547

BUSINESS EMAIL ADDRESS

kristin.d.edwards@dom.com

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 AND 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 (Fees required only for new applications, with few exceptions*) (See 10 CFR 170 and Section 170.31)

*Amendments/Renewals that increase the scope of the existing license to a new or higher fee category will require a fee.

FEE CATEGORY	AMOUNT ENCLOSED \$
N/A	0.00

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, 37, 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 62 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

Peter M. Balkus Director Power Generation Station III

SIGNATURE

Peter M. Balkus

DATE

8/25/16

FOR NRC USE ONLY

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

Renewal Application for Material License

5. Radioactive Material:

Californium 252

Manufacturer/Distributor:

Gamma-Metrics Model CB-CS

Sealed Source Model Designation:

QSA Global Inc. (Formerly AEA Technology and Amersham Corporation)

Model CVN.CYn Series (Californium-252, Models CVN.CY6, CVN.CY7, CVN.CY8, CVN.CY14, CVN.CY15, CVN.CY16, CVN.CY17) (See SSD# MA-1059-S-271-S).

Frontier Technology Corporation Model 100 Series (Cf-252)

FSUE State Scientific Center of Russia, Research Institute of Atomic Reactors, Division of Radionuclide Sources and Preparations, Model HK252M41 Series, ANSI/ISO Classification 97C65445, Registration MA-0555-S-102S

Activity per source:

24 micrograms or 12 millicuries (Model CB-CS)

Financial Assurance:

No response is required as the facility will be limited to 12 Millicuries of Cf-252 and the regulatory threshold for a plan, according to 10 CFR 30.35 (d) is 100 Curies.

Recordkeeping for Decommissioning:

The records important to decommissioning will be maintained at the facility identified above. The records will include as-built drawings with

modifications as well as "leak testing" documentation and any associated decontamination records.

6. Purpose for Which Licensed Material Will be Used:

(H) General Neutron Source Applications
for use in cross-belt elemental analyzer for coal analysis

7. Individual Responsible for Radiation Safety Program and their Training

James W. Idleman – RSO

Experience:

The proposed RSO has successfully completed the training described in Criteria in the section entitled "Individual(s) Responsible for Radiation Safety Program and Their Training and Experience – Radiation Safety Officer" in NUREG-1556, Vol 4, Rev. 1. Included with the application is documentation demonstrating that the proposed RSO is qualified by training and experience (certificate of completion of the RSO's course is included).

Authorized Users:

Before using licensed materials, authorized users will have successfully completed one of the training courses described in the "Criteria" part of the section titled "Authorized Users" in NUREG-1556, Vol. 4, Revision 1, 'Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Fixed Gauge Licenses. '

8. Training for Individuals Working in or Frequenting Restricted Areas:

Individuals who in the course of employment are likely to receive occupational doses of radiation in excess of 100 mrem in a year will

receive training according to 10 CFR 19.12. The extent of this training will be commensurate with potential radiological health protection problems present in the work place. The Station will not perform work (installation, relocations, nonroutine maintenance or repairs) that would result in receiving doses in excess of 1mrem in a year.

9. Facilities and Equipment:

The Licensee will ensure that the location of each fixed gauge meets the Criteria in Section 8.9 'Facilities and Equipment' in NUREG-1556, Vol 4, Revision 1, Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Fixed Gauge Licenses.

10. Radiation Safety Program:

10.1 Audit Program

The Licensee will develop and maintain a radiation protection program that will insure the following:

- Compliance with NRC and US Department of Transportation (DOT) regulations (as applicable) and the terms and conditions of the license;
- Occupational doses and doses to members of the public are ALARA; and
- Records of audits and other reviews of program content are maintained for 3 years.

The program will be reviewed annually.

10.2 Radiation Monitoring Instruments

The Licensee will use survey instruments that meet the Criteria in the Section 8.10.2 'Radiation Monitoring Instruments' in NUREG-1556, Vol. 4 Revision 1, 'Consolidated Guidance About Materials Licenses: Program Specific Guidance About Fixed Gauge Licenses'. Each radiation survey meter will be calibrated by the manufacturer or other person authorized by the NRC or an Agreement State to perform radiation survey meter calibrations.

10.3 Material Receipt and Accountability

The Licensee will conduct physical inventories at least every 6 months or at other intervals approved by the NRC, to account for all sealed sources and devices received and possessed under this license. The Licensee will develop, implement, and maintain procedures for ensuring accountability of licensed materials at all times.

10.4 Occupational Dose

The Licensee will maintain for inspection by the NRC, documentation demonstrating that unmonitored individuals are not likely to receive a radiation dose in excess of the limits in 10 CFR 20.1502(a).

10.5 Public Dose

The Licensee will ensure that fixed gauges will be used, transported, and stored in such a way that members of the public will not receive more than 100 mrem in one year, and the dose in

any unrestricted area will not exceed 2 mrem in any one hour from licensed operations.

The License will prevent unauthorized access, removal, or use of fixed gauges.

10.6 Operating, Emergency, and Security Procedures

Operating, emergency and security procedures will be developed, implemented, maintained, and distributed, and will meet the criteria in Section 8.10.6, 'Operating, Emergency, and Security Procedures' in NUREG-1556, Volume 4, Revision 1, 'Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Fixed Gauge Licenses'.

10.7 Leak Tests

The Licensee will leak test the licensed sources in accordance with the SS&D Registration Certificate (every 6 months).

10.8 Maintenance

Routine Maintenance: The Licensee will implement and maintain procedures for routine maintenance of the licensed gauges according to each manufacturer's or distributors written recommendations and instructions.

Non-Routine Maintenance: The gauge manufacturer, distributor, or other person licensed by the NRC or Agreement State will perform nonroutine operations such as installation, initial radiation survey, repair and maintenance of radiological safety components,

relocation, replacement, alignment, removal from service, and disposal of sealed sources.

10.9 Transportation

The Licensee will ensure that licensed material is packaged and transported in accordance with DOT regulations.

10.10 Fixed Gauges Used at Temporary Job Sites

The Licensee will not use fixed gauges at temporary job sites.

11. Waste Management:

The Licensee will dispose of licensed material in accordance with NRC requirements by transfer to an authorized recipient. Records of disposal and transfer will be maintained.

12. Licensee Fees:

N/A due to renewal

WWW.RSOSERVICES.COM

CERTIFICATE OF COMPLETION

Presented to:

James W. Idleman

40 Hour Radiation Safety Officer Training Course

Including

Physics, Mathematics, Operation of Survey equipment, Emergency Procedures,
Rules and Regulations, Safety, Health and Operating Procedures.

CERTIFICATE # **MHOH042420157115**

Issued By

RSO SERVICES, INC

Instructor Michael L Hensley, Alternate RSO

Date: 04/24/2015