

CABINET FOR HEALTH SERVICES  
COMMONWEALTH OF KENTUCKY  
RADIOACTIVE MATERIAL LICENSE

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1. LICENSEE AND 2. ADDRESS

TRANSPORT LOGISTICS  
INTERNATIONAL  
7017 PADUCAH ROAD  
KEVIL, KY 42053

RECEIVED  
DATE: 9/18/20

ATTENTION: BILL MUITER  
TELEPHONE: 270-665-8541

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PURSUANT TO KRS 211.842 ET SEQ., THE KENTUCKY CABINET FOR HUMAN RESOURCES REGULATIONS, 902 KAR 100, AND IN RELIANCE ON STATEMENTS AND REPRESENTATIONS HERETOFORE MADE BY THE LICENSEE, A LICENSE IS HEREBY ISSUED TO RECEIVE, ACQUIRE, OWN, POSSESS AND TRANSFER RADIOACTIVE MATERIAL LISTED BELOW; AND TO USE SUCH RADIOACTIVE MATERIAL FOR THE PURPOSE(S) AND AT THE PLACE(S) DESIGNATED BELOW. THIS LICENSE IS SUBJECT TO ALL APPLICABLE RULES, REGULATIONS, AND ORDERS OF THE CABINET FOR HEALTH SERVICES, NOW OR HEREINAFTER IN EFFECT AND TO ANY CONDITIONS SPECIFIED BELOW.  
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3. LICENSE NUMBER: 204-029-92  
AMENDMENT NO. 10  
4. EXPIRATION DATE: SEPTEMBER 30, 2021  
5. REVIEWER: 49  
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6. LICENSED MATERIAL	7. FORM	8. POSSESSION LIMIT
A. URANIUM 238	A. NATURAL AND DEPLETED (UF6 SOLID AND RELATED COMPOUNDS FORMED INCIDENTAL TO CHEMICAL PROCESSING OF UF6 HEELS IN EMPTY CYLINDERS	A. 2 CURIES. NUMBER OF 48 INCH CYLINDERS NOT TO EXCEED 400

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B. URANIUM 238	B. NATURAL OR DEPLETED UF6 AND RELATED COMPOUNDS INCIDENTAL TO CHEMICAL PROCESSING OF UF6 HEELS; 5% ENRICHED U-235 IN TRACE UO2F2 SOLID	B. 11.64 KILOGRAM U-238 HEEL PER EMPTY 30 INCH CYLINDER. 0.025 GRAM U-235 PER PRE-WASHED 30 INCH CYLINDER. NUMBER OF CYLINDERS NOT TO EXCEED 600
C. URANIUM 238	C. NATURAL AND DEPLETED UF6 SOLID	C. 12527 KILOGRAMS LIMIT PER FULL 48 INCH CYLINDER. 2282 KILOGRAMS PER FULL 30 INCH CYLINDER. TOTAL NUMBER CYLINDERS NO TO EXCEED 1000
D. URANIUM 238	D. NATURAL OR DEPLETED (UF6 SOLID OR RELATED COMPOUNDS FORMED AS A RESULT OF CHEMICAL PROCESSING OF HEELS)	D. 2.25 KILOGRAMS PER 12 INCH CYLINDER; 45 GRAMS PER 5 INCH CYLINDER. NUMBER OF EACH CYLINDER TYPE NOT TO EXCEED 50
E. ANY RADIONUCLIDE WITH ATOMIC NUMBERS 1-83	E. SOLID OR LIQUID (IN SOLUTION)	E. 1 MILLICURIE PER TANKER. NUMBER OF TANKER NOT TO EXCEED 10
F. ANY RADIONUCLIDE WITH ATOMIC NUMBERS 1-83	F. SOLID	F. 1 MILLICURIE PER CONTAINER. NUMBER OF CONTAINERS NOT TO EXCEED 6
G. ANY RADIONUCLIDE WITH ATOMIC NUMBERS 1-83	G. ANY	G. 0.1 MILLICURIE PER CASK. NUMBER OF CASKS NOT TO EXCEED 2
H. URANIUM 238/235	H. SOLID (UF6, UF4, UO2F2 AND COMPOUNDS INCIDENTAL TO CHEMICAL PROCESSING OF UF6, ENRICHED UP TO 5%)	H. 0.1 GRAM PER PACKAGE. NUMBER OF PACKAGES NOT TO EXCEED 850

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I. URANIUM 238	I. SOLID (U308 ORE, NATURAL ASSAY)	I. 7.7 CURIES PER 20 FT SHIPPING CONTAINER. NUMBER OF SHIPPING CONTAINERS NOT TO EXCEED 40
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9. AUTHORIZED USE

- A. FOR STORAGE AND WASHING/RECERTIFICATION OF 48 INCH CYLINDERS AND CHEMICAL PROCESSING OF UF6 AND RELATED COMPOUNDS FORMED AS A RESULT OF CONVERSION TO UO3.H2O OR U308.
- B. FOR TEMPORARY STORAGE OF EMPTY PREWASHED 30 INCH CYLINDERS AND CHEMICAL PROCESSING OF UF6 HEELS IN 30 INCH CYLINDERS AND RELATED COMPOUNDS FORMED AS A RESULT OF CONVERSION TO UO3.H2O OR U308, PRIOR TO SHIPMENT.
- C.
  - 1. FOR TEMPORARY STORAGE AND SHIPMENT OF FULL 48 INCH AND 30 INCH CYLINDERS AND SURFACE PREPARATION AND PAINTING OF FULL OR EMPTY 48 INCH AND 30 INCH CYLINDERS, PRIOR TO SHIPMENT.
  - 2. FOR USE IN PROCEDURES INVOLVING FULL OR PARTIAL CUTTING OF 48 INCH AND 30 INCH CYLINDERS THAT ARE EMPTY OR CONTAIN UF6 HEELS (LESS THAN 50 LBS), PRIOR TO SHIPPING TO A SPECIFIC LICENSEE OR LICENSED CONTRACTOR.
  - 3. FOR REPLACEMENT OF DEFECTIVE VALVES IN FULL 48 INCH CYLINDERS AND FOR CRYOGENIC SAMPLING OF UF6 FROM FULL 48 INCH CYLINDERS USING ASTM C1698-08A GUIDELINES FOR SUB-SAMPLING OF URANIUM HEXAFLUORIDE.
- D. FOR STORAGE WASHING AND RECERTIFICATION OF 12 INCH AND 5 INCH CYLINDERS AND CHEMICAL PROCESSING OF UF6 AND RELATED COMPOUNDS, FORMED AS A RESULT OF CONVERSION OF UO3.H2O OR U308.
- E. FOR TEMPORARY STORAGE IN EMPTY TANKER CONTAINERS PRIOR TO TRANSPORTATION.
- F. FOR REPAIR AND TEMPORARY STORAGE OF TRUSHIELD SHIPPING CONTAINERS PRIOR TO SHIPMENT.

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- G. FOR REPAIR AND TEMPORARY STORAGE OF EMPTY GNS-16 SHIPPING CASKS PRIOR TO SHIPMENT.
  - H. FOR REPAIR, PAINTING AND TEMPORARY STORAGE OF EMPTY BU-D SHIPPING CONTAINERS PRIOR TO SHIPMENT.
  - I. FOR TEMPORARY STORAGE OF U308 IN 20 FOOT SHIPPING CONTAINERS PRIOR TO SHIPMENT.

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CONDITIONS:

- 10. THE LICENSEE SHALL COMPLY WITH THE PROVISIONS OF THE KENTUCKY CABINET FOR HEALTH SERVICES ADMINISTRATIVE RADIATION REGULATIONS, 902 KAR 100.
- 11. RADIOACTIVE MATERIAL SHALL BE USED ONLY AT THE LICENSEE'S FACILITIES LOCATED AT:  
  
7017 PADUCAH ROAD  
KEVIL, KY 42053
- 12. RADIOACTIVE MATERIAL MAY BE STORED AT:  
7017 PADUCAH ROAD  
KEVIL, KY 42053
- 13. ALL EMPTY PREWASHED TYPE 30 AND 48 CYLINDERS THAT ARE TO BE THE SUBJECT OF THE PROPOSED PARTIAL OR FULL CUTTING PROCEDURES, SHALL BE SURVEYED FOR BOTH REMOVABLE AND FIXED CONTAMINATION ONCE THE INTERNAL SURFACES ARE EXPOSED, PRIOR TO DISPOSAL. THESE RESULTS ALONG WITH RESULTS FROM SITE, PERSONNEL AND AIR MONITORING WILL BE SUBMITTED TO THIS CABINET FOR REVIEW DURING THE COURSE OF THE PILOT PROJECT. THE LICENSEE WILL COMMIT TO FOLLOWING ALL PROCEDURES AS SUBMITTED FOR THE PROPOSED ACTIVITY.
- 14. PRIOR TO SHIPMENT OUTER SURFACE CONTAMINATION OF EACH TYPE 48 INCH AND 30 INCH CYLINDERS NOT TO EXCEED 22 DPM/CM2 (REMOVABLE ALPHA). PRIOR TO CLEANING AND PAINTING THE OUTER SURFACE WILL NO BE SUBJECT TO SANDING, GRINDING OR OTHER MECHANICAL PROCESSES THAT MAY FACILITATE RELEASE OF CONTAMINATION.
- 15. COPIES OF RECORDS REQUIRED PURSUANT TO 902 KAR 100 OR CONDITIONS OF THE LICENSE SHALL BE MAINTAINED FOR INSPECTION BY THE CABINET AT 7017 PADUCAH ROAD, KEVIL, KY 42053

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16. RADIOACTIVE MATERIAL SHALL BE USED BY, OR UNDER THE SUPERVISION OF INDIVIDUALS DESIGNATED BY THE RADIATION SAFETY OFFICER IN WRITING. THE LICENSEE SHALL MAINTAIN RECORDS OF INDIVIDUALS DESIGNATED AS USERS AND THEIR TRAINING FOR THREE (3) YEARS AFTER THE INDIVIDUAL'S LAST USE OF RADIOACTIVE MATERIAL.
17. THE RADIATION SAFETY OFFICER FOR THE ACTIVITIES AUTHORIZED BY THIS LICENSE IS STEVE MEINERS .
18. THE LICENSEE MAY TRANSPORT RADIOACTIVE MATERIAL, OR DELIVER RADIOACTIVE MATERIAL TO A CARRIER FOR TRANSPORT, IN ACCORDANCE WITH THE PROVISIONS OF 902 KAR 100:070, AND OTHER DEPARTMENTS OF THE COMMONWEALTH OF KENTUCKY HAVING JURISDICTION.
19. THIS LICENSE DOES NOT AUTHORIZE COMMERCIAL DISTRIBUTION OF RADIOACTIVE MATERIAL.
20. THIS LICENSE DOES NOT AUTHORIZE THE COMMERCIAL DISTRIBUTION OF RADIOACTIVE MATERIAL TO PERSONS EXEMPT FROM LICENSING PURSUANT TO 902 KAR 100.
21. RADIOACTIVE WASTE POSSESSED UNDER THE LICENSE SHALL BE STORED IN ACCORDANCE WITH THE STATEMENTS, REPRESENTATIONS, AND PROCEDURES INCLUDED WITH THE LICENSEE'S WASTE STORAGE PLAN DESCRIBED IN THE LICENSEE'S LETTER DATED OCTOBER 17, 2013 .
22. RADIOACTIVE WASTE POSSESSED UNDER THE LICENSE SHALL BE DISPOSED IN ACCORDANCE WITH THE STATEMENTS, REPRESENTATIONS, AND PROCEDURES INCLUDED WITH THE LICENSEE'S WASTE STORAGE PLAN DESCRIBED IN THE LICENSEE'S LETTER DATED OCTOBER 17, 2013 .
23. IN ADDITION TO THE POSSESSION LIMITS SPECIFIED IN ITEM 8, THE LICENSEE SHALL FURTHER RESTRICT POSSESSION OF RADIOACTIVE MATERIAL, IN AGGREGATED QUANTITIES; BELOW THE CATEGORY 2 VALUE (IN TERABECQUERELS) SPECIFIED IN APPENDIX A, TABLE 1 - "CATEGORY 1 AND CATEGORY 2 THRESHOLD" OF 10 CFR 37 "PHYSICAL PROTECTION OF CATEGORY 1 AND CATEGORY 2 QUANTITIES OF RADIOACTIVE MATERIAL".
24. THIS LICENSE AND THE RIGHT TO POSSESS OR UTILIZE RADIOACTIVE MATERIAL GRANTED BY THIS LICENSE ISSUED UNDER 902 KAR CHAPTER 100 SHALL NOT BE TRANSFERRED, ASSIGNED, OR OTHERWISE DISPOSED OF, THROUGH TRANSFER OF CONTROL OF A LICENSE TO A PERSON UNLESS THE CABINET, AFTER SECURING FULL INFORMATION, FINDS THAT THE TRANSFER IS IN ACCORDANCE WITH THE REQUIREMENTS OF 902 KAR CHAPTER 100 AND GIVES ITS CONSENT IN WRITING IN ACCORDANCE WITH 902 KAR 100:040, SECTION 11.

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25. 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 CABINET FOR HEALTH SERVICES REGULATIONS, 902 KAR 100, SHALL GOVERN UNLESS STATEMENTS, REPRESENTATIONS, AND PROCEDURES IN THE LICENSEE'S APPLICATION AND CORRESPONDENCE ARE MORE RESTRICTIVE THAN THE REGULATION.

A. APPLICATION DATED OCTOBER 17, 2013, SIGNED BY STEVE MEINERS, RSO.

B. LETTERS DATED:

1. MAY 28, 2013, SIGNED BY MARK LAMBERT, CO-PRESIDENT AND STEVE MEINERS, RSO (SIGNATURE AUTHORIZATION).
2. OCTOBER 10, 2013, SIGNED BY MARK LAMBERT, CO-PRESIDENT AND STEVE MEINERS, RSO (DELEGATION OF AUTHORITY TO RSO)
3. NOVEMBER 11, 2013, SIGNED BY STEVE MEINERS (ADD STORAGE AND SHIPMENT OF FULL TYPE 48 INCH CYLINDERS).
4. NOVEMBER 11, 2013, SIGNED BY STEVE MEINERS, RSO (CHANGE TO ALL TYPE 48 INCH CYLINDERS).
5. FEBRUARY 4, 2014, SIGNED BY STEVE MEINERS, RSO (POSSESSION LIMITS CHANGE).
6. MAY 2, 2014, SIGNED BY STEVE MEINERS, RSO (CHANGE CONTACT, CHANGE UF6 POSSESSION LIMIT, ADD SOURCES).
7. JUNE 2, 2014, SIGNED BY STEVE MEINERS, RSO (CHANGE MAILING ADDRESS, CHANGE UF6 POSSESSION LIMIT).
8. OCTOBER 22, 2014, SIGNED BY STEVE MEINERS, RSO (PAINTING TYPE 48 CYLINDERS).
9. NOVEMBER 10, 2014, SIGNED BY STEVE MEINERS, RSO (CHEMICAL FORMS OF URANIUM).
10. FEBRUARY 2, 2015 (EMAIL) SIGNED BY STEVE MEINERS, RSO (UPDATE TYPE 48 CYLINDER PAINTING PROTOCOLS).
11. DECEMBER 8, 2014, SIGNED BY STEVE MEINERS, RSO (SPELLING CORRECTION TO CONDITIONS).
12. FEBRUARY 23, 2015, SIGNED BY STEVE MEINERS, RSO (ADD SHIPPING CONTAINERS).
13. MAY 12, 2015, SIGNED BY STEVE MEINERS, RSO (INSPECTION, REPAIR AND STORAGE OF EMPTY BU-D SHIPPING PACKAGES).
14. MAY 25, 2015, SIGNED BY STEVE MEINERS, RSO (INSPECTION, REPAIR AND STORAGE OF EMPTY GNS-16 SHIPPING CASKS).
15. JULY 6, 2015, EMAIL SIGNED BY STEVE MEINERS, RSO (UPDATE LICENSED MATERIAL).
16. NOVEMBER 15, 2015, SIGNED BY STEVE MEINERS, RSO (ADD SOURCES).
17. DECEMBER 9, 2015, SIGNED BY STEVE MEINERS, RSO (ADDITIONAL COMMITMENTS).
18. DECEMBER 28, 2015, SIGNED BY STEVE MEINERS, RSO



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- (SURFACE PREPARATION AND PAINTING OF FULL OR EMPTY TYPE 48 OR TYPE 30B CYLINDERS).
19. NOVEMBER 16, 2015, SIGNED BY STEVE MEINERS, RSO (PILOT PROJECT INVOLVING PARTIAL OR FULL CUTTING OF CLEANED EMPTY TYPE 48 AND TYPE 30B CYLINDERS).
  20. MAY 13, 2016, SIGNED BY STEVE MEINERS, RSO (HUNT VALVE REPLACEMENT AND SAMPLING OF UF6 FROM TYPE 48G CYLINDERS).
  21. NOVEMBER 15, 2016, SIGNED BY STEVE MEINERS, RSO (PROCESS EQUIPMENT MODIFICATION/ADDITION OF EVAPORATOR FOR CONCENTRATION OF LIQUID WASTE).
  22. OCTOBER 18, 2017, SIGNED BY STEVE MEINERS, RSO (INCREASE POSSESSION LIMIT OF EMPTY BU-D SHIPPING PACKAGES).
  23. JULY 16, 2018, SIGNED BY STEVE MEINERS, RSO (MODIFIED CUTTING PROTOCOL FOR TYPE 30B AND 48 CYLINDERS WITH CHEMICALLY TREATED HEELS).
  24. OCTOBER 4, 2018, SIGNED BY STEVE MEINERS, RSO (CHEMICAL TREATMENT OF UF6 HEELS AND WASHING/RECERTIFICATION OF TYPE 5A CYLINDERS, AND VALVE REPLACEMENT IN TYPE 48 CYLINDERS).
  25. DECEMBER 19, 2018, SIGNED BY STEVE MEINERS, RSO (TREATMENT OF UF6 HEELS AND RECERTIFICATION OF TYPE 5A CYLINDERS WITH NATURAL OR DEPLETED UF6: MODIFIED REQUEST FROM LETTER DATED OCTOBER 4, 2018).
  26. JANUARY 14, 2019, SIGNED BY STEVE MEINERS, RSO (ADD FULL 30 INCH CYLINDERS AND REFERENCE CYLINDER TYPES BASED ON DIAMETER IN INCHES).
  27. JUNE 13, 2019, SIGNED BY STEVE MEINERS, TRICORD, INC., RSO (CHANGE CONTACT).
  28. JUNE 24, 2020, INTERNAL ADMINISTRATIVE AMENDMENT (CORRECT SPELLING OF LICENSEE CONTACT).



MANAGER  
RADIATION HEALTH BRANCH

ERIC C. FRIEDLANDER

SECRETARY  
CABINET FOR HEALTH AND FAMILY  
SERVICES

DATE ISSUED SEPTEMBER 10, 2020