

CABINET FOR HEALTH SERVICES  
COMMONWEALTH OF KENTUCKY  
RADIOACTIVE MATERIAL LICENSE

PAGE 1

1. LICENSEE AND 2. ADDRESS

CHASE ENVIRONMENTAL GROUP INC.  
11450 WATTERSON COURT  
LOUISVILLE, KY 40299-2389

ATTENTION: JOHN R. O'NEIL  
TELEPHONE: 502-267-1455

-----  
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.  
-----

3. LICENSE NUMBER: 201-605-15  
AMENDMENT NO. 34
4. EXPIRATION DATE: DECEMBER 31, 2017
5. REVIEWER: 41

- 
- |   |             |   |
|---|-------------|---|
| 6. LICENSED MATERIAL                            | 7. FORM     | 8. POSSESSION LIMIT   |
| A. ANY RADIOACTIVE MATERIAL WITH ATOMIC NUMBERS | A. ANY FORM | A. 100 CURIES<br>(NOT TO EXCEED OR EQUAL INCREASED CONTROLS (IC) QUANTITIES OF CONCERN IN ACCORDANCE WITH IC TABLE 1) |

CABINET FOR HEALTH SERVICES  
COMMONWEALTH OF KENTUCKY  
RADIOACTIVE MATERIAL LICENSE

LICENSE NUMBER: 201-605-15

AMENDMENT 34

PAGE 2

-----  
3-98 INCLUSIVE,  
EXCLUDING H-3,  
SOURCE MATERIAL  
AND SPECIAL  
NUCLEAR MATERIAL

- |                                |                              |  |
|--------------------------------|------------------------------|--|
| B. HYDROGEN 3                  | B. SOLID, LIQUID<br>OR GAS   | B. 100 CURIES  |
| C. SOURCE MATERIAL             | C. ANY FORM                  | C. 1,000 KILOGRAMS   |
| D. SPECIAL NUCLEAR<br>MATERIAL | D. ANY FORM                  | D. 350 GRAMS URANIUM-<br>235, 200 GRAMS<br>URANIUM-233, OR<br>200 GRAMS PLUTONIUM<br>OR ANY COMBINATION<br>OF THESE PROVIDED<br>THE SUM OF THE<br>RATIOS OF THE<br>QUANTITIES DOES NOT<br>EXCEED UNITY |
| E. URANIUM, DEPLETED           | E. SOLID<br>(NONDISPERSABLE) | E. 4,500 KILOGRAMS   |

-----  
9. AUTHORIZED USE

- A.-D. 1. FOR DECONTAMINATION AND DECOMMISSIONING SERVICES,  
INCLUDING DEMOLITION, REMEDIATION, RADIOLOGICAL SURVEY,  
SAMPLING AND ACCELERATOR/CYCLOTRON DISASSEMBLY, REMOVAL,  
STORAGE AND RELOCATION.
2. FOR TRANSPORTATION SERVICES, INCLUDING PACKAGING,  
PROCESSING AND TRANSPORT FOR DISPOSAL OR TRANSFER TO  
FACILITIES AUTHORIZED TO STORE, POSSESS, OR DISPOSE OF  
RADIOACTIVE MATERIAL.
3. FOR STORAGE OF ACCELERATORS, CYCLOTRONS, ASSOCIATED  
COMPONENTS AND OTHER ACTIVATED OR CONTAMINATED ITEMS PENDING  
TRANSFER TO LICENSED FACILITIES OR DISPOSAL AND WASTE  
COLLECTION FOR LOAD CONSOLIDATION.

CABINET FOR HEALTH SERVICES  
COMMONWEALTH OF KENTUCKY  
RADIOACTIVE MATERIAL LICENSE

LICENSE NUMBER: 201-605-15

AMENDMENT 34

PAGE 3

---

4. IMPLEMENTATION OF RADIATION SAFETY PROGRAMS AT TEMPORARY JOB SITES INCLUDING THOSE NOT DEFINED IN 1, 2 AND 3 ABOVE.

5. MATERIAL MAY BE USED AT TEMPORARY JOB SITES OF THE LICENSEE AT LOCATIONS THROUGHOUT KENTUCKY, THE UNITED STATES AND OTHER LOCATIONS AS NEEDED UPON RECEIPT OF RECIPROCITY.

1-5 ABOVE IS TO BE PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF LICENSES ISSUED BY THE U.S. NUCLEAR REGULATORY COMMISSION OR AN AGREEMENT STATE.

E. FOR STORAGE ONLY.

---

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 MAY BE STORED AT:  
CHASE ENVIRONMENTAL GROUP  
11450 WATTERSON COURT  
LOUISVILLE, KY 40299-2389

RADIOACTIVE MATERIAL MAY BE USED AT TEMPORARY JOB SITES, IN AREAS NOT UNDER EXCLUSIVE FEDERAL JURISDICTION, ANYWHERE IN THE COMMONWEALTH OF KENTUCKY WHERE THE CABINET MAINTAINS JURISDICTION FOR REGULATING THE USE OF RADIOACTIVE MATERIAL. (THIS CONDITION DOES NOT PROHIBIT USE IN OTHER STATES UNDER RECIPROCITY PRIVILEGES WHICH MAY BE GRANTED BY THE REGULATORY AGENCY HAVING JURISDICTION.)

12. COPIES OF RECORDS REQUIRED PURSUANT TO 902 KAR 100 OR CONDITIONS OF THE LICENSE SHALL BE MAINTAINED FOR INSPECTION BY THE CABINET AT CHASE ENVIRONMENTAL GROUP, 11450 WATTERSON COURT, LOUISVILLE, KY 40222

13. RADIOACTIVE MATERIAL SHALL BE USED BY, OR UNDER THE SUPERVISION AND IN THE PHYSICAL PRESENCE OF JOHN R. O'NEIL, CHRISTOPHER E. ECHTERLING OR DAVE CULP.  
ALTERNATIVELY, RADIOACTIVE MATERIAL MAY BE USED BY INDIVIDUALS WHO HAVE BEEN TRAINED AS SPECIFIED IN APPLICATION DATED NOVEMBER 9, 2009 AND HAVE BEEN APPROVED IN WRITING BY THE RADIATION SAFETY OFFICER. THE LICENSEE SHALL MAINTAIN RECORDS OF THE TRAINING RECEIVED BY INDIVIDUALS DESIGNATED AS USERS FOR INSPECTION BY THE CABINET FOR FIVE (5) YEARS FOLLOWING THE LAST USE OF RADIOACTIVE MATERIAL BY THE INDIVIDUAL. THIS TRAINING PROGRAM IS APPLICABLE ONLY TO INDIVIDUALS WHO SHALL USE

CABINET FOR HEALTH SERVICES  
COMMONWEALTH OF KENTUCKY  
RADIOACTIVE MATERIAL LICENSE

LICENSE NUMBER: 201-605-15

AMENDMENT 34

PAGE 4

---

LICENSED MATERIAL UNDER THE AUTHORITY OF THIS LICENSE.

14. THE RADIATION SAFETY OFFICER FOR THE ACTIVITIES AUTHORIZED BY THIS LICENSE IS CHRISTOPHER E. ECHTERLING .
15. 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.
16. 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.
17. 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".
18. THE LICENSEE SHALL SUBMIT A DECONTAMINATION, DECOMMISSIONING, AND REMEDIATION AND/OR OTHER PROJECT WORK PLAN FOR EACH PROJECT TO BE PERFORMED, UNDER THIS LICENSE. THIS PLAN WILL SPECIFY AN ESTIMATE OF THE TYPES, QUANTITIES, PHYSICAL/CHEMICAL FORMS OF RADIOACTIVE MATERIAL; SPECIFICATIONS OF SITE LOCATION INCLUDING FACILITIES AND EQUIPMENT, AND RADIATION DETECTION INSTRUMENTS TO BE USED; DESCRIPTION OF PROJECT ACTIVITIES INCLUDING WASTE MANAGEMENT AND DISPOSITION; ESTIMATED PROJECT START DATE AND DURATION; AND IDENTIFICATION OF, AND INFORMATION ON HOW TO CONTACT KEY PROJECT PERSONNEL. IN ADDITION, THE PLAN SHALL INCLUDE PERSONNEL QUALIFICATIONS INCLUDING THOSE OF THE RADIATION CONTROL SUPERVISOR, AND A DESCRIPTION OF PERSONNEL DOSIMETRY AND BIOASSAY PROCEDURES TO BE USED. OTHER INFORMATION SHALL BE SUBMITTED AS REQUIRED BY THE REFERENCES IN CONDITION 19 OF THIS LICENSE.

CABINET FOR HEALTH SERVICES  
COMMONWEALTH OF KENTUCKY  
RADIOACTIVE MATERIAL LICENSE

LICENSE NUMBER: 201-605-15

AMENDMENT 34

PAGE

5

- 
19. AT THE COMPLETION OF ACTIVITIES AT EACH JOB SITE LOCATION, THE LICENSEE SHALL NOTIFY THE CABINET OF THE TEMPORARY JOB SITE STATUS AND THE DISPOSITION OF THE RADIOACTIVE MATERIAL.
  20. THIS LICENSE DOES NOT AUTHORIZE THE POSSESSION AND USE OF LICENSED MATERIAL AT CUSTOMER FACILITIES OR CUSTOMER TEMPORARY JOB SITES FOR USES SPECIFICALLY AUTHORIZED BY THE CUSTOMERS LICENSE.
  21. NOTWITHSTANDING THE POSSESSION LIMITS IN ITEM 8, THE LICENSEE SHALL FURTHER RESTRICT THE POSSESSION AND STORAGE OF RADIOACTIVE MATERIAL IN THE COMMONWEALTH OF KENTUCKY TO QUANTITIES BELOW THE MINIMUM LIMIT SPECIFIED IN 902 KAR 100:042, SECTION 11, FOR ESTABLISHING DECOMMISSIONING FINANCIAL ASSURANCE.
  22. 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 NOVEMBER 9, 2009, SIGNED BY JOHN R. O'NEIL, DIRECTOR.
    - B. LETTERS DATED:
      1. APRIL 16, 2010, SIGNED BY JOHN R. O'NEIL, DIRECTOR.
      2. JUNE 7, 2010, SIGNED BY RICHARD SAUER, PRESIDENT.
      3. JULY 6, 2010 (EMAIL), SIGNED BY RICHARD SAUER, PRESIDENT.
      4. JANUARY 10, 2012, SIGNED BY RICHARD E. SAUER, PRESIDENT (CHANGING RSO).
      5. MARCH 22, 2012, SIGNED BY RICHARD E. SAUER, PRESIDENT AND CHRISTOPHER E. ECHTERLING, CRSO (GRANTING SIGNATURE OF AUTHORITY).
      6. MAY 17, 2012, EMAIL FROM RICHARD SAUER, PRESIDENT (RESTRICTING POSSESSION LIMIT).
      7. JULY 27, 2012, SIGNED BY RICHARD SAUER, PRESIDENT (RESTRICTING H-3 POSSESSION LIMIT BELOW FINANCIAL ASSURANCE QUANTITIES).

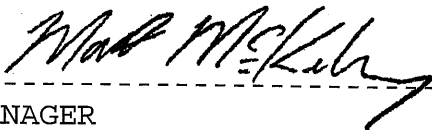
CABINET FOR HEALTH SERVICES  
COMMONWEALTH OF KENTUCKY  
RADIOACTIVE MATERIAL LICENSE

LICENSE NUMBER: 201-605-15

AMENDMENT 34

PAGE 6

- 
8. SEPTEMBER 19, 2012, SIGNED BY CHRIS ECHTERLING,  
RADIATION SAFETY OFFICER (ADD DEPLETED URANIUM).
  9. APRIL 16, 2013, SIGNED BY MARK T. RUST, PRESIDENT  
(DELETE/ADD CONTACT AND AUTHORIZED USER).
  10. JANUARY 8, 2015, SIGNED BY CHRIS ECHTERLING, RSO  
(DELETE LETTER FROM ERIC LANING).
  11. NOVEMBER 23, 2015, SIGNED BY CHRIS ECHTERLING,  
RADIATION SAFETY OFFICER (CHANGE DISCIPLINE CODE).



---

MANAGER  
RADIATION HEALTH BRANCH

VICKIE YATES BROWN GLISSON

---

SECRETARY  
CABINET FOR HEALTH AND FAMILY  
SERVICES

DATE ISSUED DECEMBER 9, 2016