

CABINET FOR HEALTH SERVICES  
COMMONWEALTH OF KENTUCKY  
RADIOACTIVE MATERIAL LICENSE

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1. LICENSEE AND 2. ADDRESS

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

ATTENTION: RICHARD E. SAUER, PRESIDENT  
TELEPHONE: 502-267-1455

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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: 201-605-90  
AMENDMENT NO. 16  
4. EXPIRATION DATE: DECEMBER 31, 2009  
5. REVIEWER: 44

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6. LICENSED MATERIAL      7. FORM      8. POSSESSION LIMIT  
A. ANY RADIOACTIVE MATERIAL WITH ATOMIC NUMBERS 3-92 INCLUSIVE, EXCLUDING H-3, SOURCE MATERIAL AND SPECIAL NUCLEAR MATERIAL      A. ANY FORM      A. 10,000 MILLICURIES

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| B. HYDROGEN 3                  | B. SOLID, LIQUID<br>OR GAS   | B. 50,000 MILLICURIES  |
| C. SOURCE MATERIAL             | C. ANY   | C. 1000 KILOGRAMS  |
| D. SPECIAL NUCLEAR<br>MATERIAL | D. ANY   | 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. AMERICIUM-241               | E. ANY   | E. 2 CURIES  |
| F. BARIUM 133                  | F. SEALED SOURCE<br>(NORTH AMERICAN<br>SCIENTIFIC MODEL<br>#IND1401)           | F. NO SINGLE SOURCE TO<br>EXCEED 30 MICRO-<br>CURIES   |
| G. CESIUM 137                  | G. SEALED SOURCE<br>(BECKMAN #598860<br>OR 501095; AMERSHAM<br>MODEL CDRB5192) | G. NO SINGLE SOURCE TO<br>EXCEED 30 MICRO-<br>CURIES   |

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9. AUTHORIZED USE

- A.-E. FOR DECONTAMINATION, DEMOLITION OR REMOVAL, RADIOLOGICAL SURVEY, SAMPLING, PROCESSING AND TRANSPORT FOR DISPOSAL OR TRANSFER TO FACILITIES AUTHORIZED TO STORE, PROCESS OR DISPOSE OF RADIOACTIVE MATERIAL IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF LICENSES ISSUED BY THE U.S. NUCLEAR REGULATORY COMMISSION OR AN AGREEMENT STATE.
- F. FOR USE AS A CALIBRATION SOURCE ASSOCIATED WITH USE OF PACKARD MODEL A1900 LIQUID SCINTILLATION COUNTER.
- G. FOR USE AS A CALIBRATION SOURCE ASSOCIATED WITH USE OF BECKMAN MODEL LS5801 OR MODEL LS5000TA LIQUID SCINTILLATION COUNTERS.

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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. LICENSED MATERIAL SHALL BE USED ONLY 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 11450 WATTERSON COURT, LOUISVILLE, KY 40222
13. RADIOACTIVE MATERIAL SHALL BE USED BY, OR UNDER THE SUPERVISION AND IN THE PHYSICAL PRESENCE OF, RICHARD E. SAUER, MICHAEL B. MILLS, CHRIS WARD, WADE FILLINGAME, TERRY HIGGINS, ROBERT B. RITTENBERG, & THOMAS W. HANSEN ALTERNATIVELY, RADIOACTIVE MATERIAL MAY BE USED BY INDIVIDUALS WHO HAVE BEEN TRAINED AS SPECIFIED IN APPLICATION DATED APRIL 30, 1997 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 LICENSED MATERIAL UNDER THE AUTHORITY OF THIS LICENSE.
14. THE RADIATION SAFETY OFFICER FOR THE ACTIVITIES AUTHORIZED BY THIS LICENSE IS DOUG COBLE .
15. THE LICENSEE SHALL SUBMIT A DECONTAMINATION, DECOMMISSIONING, AND REMEDIATION 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

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IN CONDITION 19 OF THIS LICENSE.

16. 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.
17. 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 RADIOACTIVE MATERIAL.
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. THE LICENSEE SHALL COMPLY WITH THE REQUIREMENTS DESCRIBED IN THE RADIATION HEALTH BRANCH LETTER DATED DECEMBER 2, 2005, AND ATTACHED DOCUMENT ENTITLED "INCREASED CONTROLS FOR LICENSEES THAT POSSESS SOURCES CONTAINING RADIOACTIVE MATERIAL QUANTITIES OF CONCERN." THE LICENSEE SHALL COMPLETE IMPLEMENTATION OF SAID REQUIREMENTS WITHIN SIX (6) MONTHS FROM THE ISSUANCE OF THE LICENSE AMENDMENT OR THE FIRST DAY THAT RADIONUCLIDES IN QUANTITIES OF CONCERN ARE POSSESSED AT OR ABOVE THE LIMITS SPECIFIED IN TABLE 1 OF THE ATTACHMENT, WHICHEVER IS LATER. WITHIN 25 DAYS AFTER THE IMPLEMENTATION OF THE REQUIREMENTS OF THIS CONDITION, THE LICENSEE SHALL NOTIFY THE RADIATION HEALTH BRANCH IN WRITING THAT IT HAS COMPLETED THE REQUIREMENTS OF THIS CONDITION.
20. 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 APRIL 30, 1997, SIGNED BY RICHARD E. SAUER, PRESIDENT.
  - B. LETTERS DATED:

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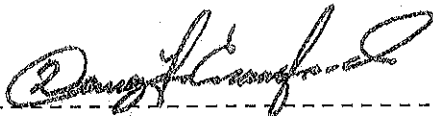
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1. OCTOBER 10, 1997, SIGNED BY RICHARD E. SAUER,  
PRESIDENT.
2. DECEMBER 5, 1997, SIGNED BY ARTHUR J. PALMER, RSO.
3. SEPTEMBER 15, 1998, SIGNED BY RICHARD E. SAUER,  
PRESIDENT.
4. OCTOBER 27, 1998, SIGNED BY ARTHUR J. PALMER, RSO.
5. APRIL 9, 1999, SIGNED BY RICHARD E. SAUER, PRESIDENT.
6. NOVEMBER 17, 1999, SIGNED BY RICHARD E. SAUER,  
PRESIDENT.
7. MARCH 21, 2007, SIGNED BY TOM HANSEN, RSO.
8. JANUARY 30, 2009, SIGNED BY RICHARD E. SAUER,  
PRESIDENT.



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MANAGER  
RADIATION HEALTH BRANCH

JANIE MILLER

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SECRETARY  
CABINET FOR HEALTH AND FAMILY  
SERVICES

DATE ISSUED APRIL 7, 2009