



Radioactive Materials License

Pursuant to the Colorado Radiation Control Act, Title 25, Article 11, Colorado Revised Statutes, and the State of Colorado Rules and Regulations Pertaining to Radiation Control (the Regulations), and in reliance on statements and representations heretofore made by the licensee designated below; a license is hereby issued authorizing such licensee to transfer, receive, possess and use the radioactive material(s) designated below; and to use such radioactive material(s) for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations, and orders now or hereafter in effect of the Colorado Department of Public Health and Environment and to any conditions specified below.

1. Licensee: Colorado Division of Reclamation, Mining and Safety
2. Mailing address: 1001 E 62nd Avenue, Room 215, Denver, Colorado 80216
3. License number: CO 1332-01, amendment number 00
4. Expiration date: May 31, 2029
5. Authorized storage/use location: 8300 Glencoe Valley Road, Golden, Colorado 80402
6. Designated Radiation Safety Officer: Robert Krumberger
Designated Alternate Radiation Safety Officer: David Tudor
7. Radiation Safety Officer contact number: (970) 556-1174
8. Fee category: 3.Q, 2.C
9. Reference number:

Conditions

10. Authorized radioactive material and uses:

- A. The licensee is authorized to possess and store at any one time prior to disposal not more than 500 mCi (18.5 GBq) of natural uranium bound to ion exchange water treatment media; and not more than 200 mCi (7.4 GBq) of natural uranium and 17.8 mCi (658.6 MBq) of radium-226 from influent mine water, bound to reverse osmosis (RO) filter media, or in reject water.

11. Authorized radioactive material users:

- A. Radioactive material shall be used by individuals, designated as users by the Radiation Safety Officer, who have successfully completed the training course as described in the application and attachments dated May 14, 2024.
- B. The Radiation Safety Officer shall maintain written records indicating the date and basis of approval of designated users.

12. General requirements:

- A. The licensee shall comply with the provisions of the Regulations: Part 1, “General Provisions”; Part 3, “Licensing of Radioactive Material”; Part 4, “Standards for Protection Against Radiation”; Part 10, “Notices, Instructions, and Reports to Workers: Inspections”; and Part 17, “Transportation of Radioactive Material”.
- B. The licensee shall not transfer possession and/or control of radioactive materials or items contaminated with radioactive material except: by transfer of waste to an authorized recipient; by transfer to a specifically licensed recipient; or, as provided otherwise by specific condition of this license pursuant to the requirements of Part 3, Section 3.22 of the Regulations.
- C. The licensee shall ensure that information listed in this license is correct and accurate. The licensee shall notify the department in writing within 10 days whenever the information contained in Items 1 through 7 above is no longer current or determined to be incorrect.
- D. The licensee may transport radioactive material or deliver radioactive material to a carrier for transport in accordance with the provisions of Part 17 of the Regulations and the requirements of U.S. Department of Transportation (49 CFR).
- E. The licensee shall not make any false statement, representation, or certification in any application, record, report, plan, or other document regarding radiation levels, tests performed or radiation safety conditions or practices.

13. Occupational dose monitoring:

- A. The licensee shall monitor the occupational dose for each of its employees who are likely to receive an occupational dose exceeding 10% of any applicable limit specified in Part 4 of the Regulations.

14. Special license requirements:

- A. Ion exchange water treatment media authorized in Item 10.A of this license shall only be contained within the water treatment facility building in ion exchange vessels or U.S. Department of Transportation approved containers.

- B. RO filter media or reject water authorized in Item 10.A of this license shall be handled, stored, sampled, and disposed of in accordance with the application and correspondence dated April 26, 2024, and May 14, 2024, respectively.
- C. The licensee shall ensure that the water treatment building is locked at all times when authorized personnel are not present.
- D. The licensee shall ensure that the water treatment building is properly posted in accordance with Section 4.28 of the Regulations.
- E. The licensee shall maintain in effect a financial assurance warranty acceptable to the department in the amount of \$373,286 in 2024 dollars in accordance with the requirements of Part 3, Section 3.9.5 of the Regulations.
- F. The licensee shall provide in writing to the department, no later than June 30th of each calendar year, an annual report demonstrating proof of the value of existing financial warranties and any proposed changes to the financial assurance warranties, including updated decommissioning fund plans.

15. Licensee commitments and reference documents:

The State of Colorado Rules and Regulations Pertaining to Radiation Control shall govern unless the licensee's statements, representations, and procedures contained in the application and correspondence are more restrictive than the Regulations. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Item 10 of this license in accordance with the statements, representations, and procedures contained in:

- A. the application and attachments dated April 26, 2024; and
- B. the license correspondence and attachments dated May 14, 2024; and May 17, 2024.

For the Colorado Department of Public Health and Environment

Date: 05/28/2024 By: _____