Fact Sheet

For issuance of Underground Injection Control Permit Number NE0212075, NDEQ ID Number 10554, to construct and operate a Class V Aquifer Remediation Related system. This permit issuance does not involve discharges to the land surface or surface waters of the State of Nebraska.

Issuing Office: Nebraska Department of Environmental Quality (NDEQ)

Suite 400, The Atrium

1200 N Street, P.O. Box 98922

Lincoln, Nebraska 68509-8922

Applicant: Unisys Corporation and Eaton Corporation

3199 Pilot Knob Road

Eagan, MN 55121

1. Unisys Corporation and Eaton Corporation propose to inject EHC in-situ chemical reduction reagent and dechlorinating bacteria into subsurface aquifers using direct push technology (DPT) for aquifer remediation related purposes. Unisys Corporation and Eaton Corporation will be using high pressures to initiate fractures, at depths approximately 30-50 feet below ground surface during the injection process. A variance from Title 122 was granted to Unisys Corporation and Eaton Corporation on November 13, 2017.
2. The Former Vickers, Inc. site is located in the E ½ and the NE ¼ of Section 35, Township 16 North, Range 12 East, Douglas County, Nebraska.
3. On the basis of preliminary staff review, the NDEQ has made a tentative determination to issue permit number NE0212075.
4. The following is a brief explanation of the statutory and regulatory provisions on which the proposed permit issuance is based.
   1. Variance request for a Class V injection well, received by NDEQ on September 5, 2017.
   2. Permit Application for a Class V injection well and $500.00 filing fee, received by NDEQ on February 21, 2018.
   3. Email from Amanda Jones, NDEQ, to Unisys Corporation and Eaton Corporation via Geosyntec submitting a draft permit, dated April 6, 2018.
   4. Email from Amanda Jones, NDEQ, to Unisys Corporation and Eaton Corporation via Geosyntec submitting a draft permit, dated April 13, 2018.
   5. Email from Amanda Jones, NDEQ, to EPA Region 7 submitting a draft permit, dated May 1, 2018.
   6. Nebraska Environmental Protection Act and related laws.
   7. NDEQ Title 122 - Rules and Regulations for Underground Injection and Mineral Production Wells.
   8. 40 CFR Parts 144-147, Underground Injection Control Program, State UIC Program Requirements, UIC program: Criteria and Standards, State Underground Injection Control Programs.
5. The following is an explanation of the calculations and derivations of the specific Operational Parameters and Limitations set forth in the draft permit, and the reasons why they are applicable to the injection proposal:
   1. Reason for the Permit: The draft permit has been prepared in accordance with specific regulations contained within Nebraska Title 122 – Rules and Regulations for Underground Injection and Mineral Production Wells.
   2. Water Quality Considerations: The proposed injection activity will, by definition, emplace EHC in-situ chemical reduction reagent and dechlorinating bacteria into subsurface aquifers, which are considered to be Underground Sources of Drinking Water (USDW) under State and Federal regulations. Drinking Water Quality effluent limitations, therefore, apply to the proposed discharge and are included in the permit.
6. The proposed monitoring schedule is included in the draft permit and described in the application.
7. The applicant will be required to submit monitoring data from the first round of injections to the Department for review and will be required to obtain consent from the Department prior to any additional rounds of injections.
8. Variances

Unisys and Eaton received a variance from specific rules in NDEQ Title 122 for this remediation plan. The variance was required in order to implement the following practices:

* 1. Injection pressure of approximately two hundred (200) pounds per square inch (psi) during hydraulic emplacement of ISCR reagent and dechlorinating bacteria to the subsurface in a manner that will allow propagation to the targeted TCE treatment area.
  2. Delivery of injection fluids by methods other than drop tubing (DPT).
  3. Injections within the following setback distance: twenty-five (25) feet from sewer lines, pressure water lines, other Class V injection wells.

1. Written Comments

Copies of public information pertaining to this issue (Permit Issuance) are available for review and copying at the Department’s office, Suite 400, The Atrium, 1200 N Street, Lincoln, Nebraska 68508 between 8:00 a.m. and 5:00 p.m., weekdays.

The public may comment upon or object to the proposed draft permit, in writing, prior to June 25, 2018. All substantive comments and/or objections shall be considered prior to making the final decision regarding this surety release. Any interested person may request a public hearing, if no hearing has already been scheduled. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised at the hearing.

All comments may be sent to Marty Link, Nebraska Department of Environmental Quality, Groundwater Unit, P.O. Box 98922, Lincoln, Nebraska 68509-8922. Further requests for information should be sent to Amanda Jones, Department of Environmental Quality, P.O. Box 98922, Lincoln, Nebraska 68509-8922, (402) 471-4290.