

Kansas Administrative Regulations

Department of Health and Environment

Article 46.—Underground Injection Control Regulations

28-46-33. Mechanical integrity testing.

(a) A mechanical integrity test consisting of a pressure test with a liquid to evaluate the absence of a significant leak in the casing, tubing, or packer and a test to determine the absence of significant fluid movement through vertical channels adjacent to the wellbore shall be required of each class I and class III permittee on each injection well at least once every five years.

(1) For class I hazardous waste injection wells, the mechanical integrity test shall be conducted in accordance with 40 CFR 146.8, except for reference to 40 CFR 146.33(b), as in effect July 1, 2008, which is hereby adopted by reference, and 40 CFR 146.68(d), as adopted in K.A.R. 28-46-30, by conducting all of the following:

(A) A pressure test with a liquid of the casing, tubing, and packer at least annually and if there has been a well workover;

(B) a test of the bottom-hole cement by use of an approved radioactive survey at least annually;

(C) a temperature, noise, or oxygen activation log to test for movement of fluid along the borehole at least once every five years; and

(D) a casing inspection log at least once every five years.

(2) For class I non-hazardous waste injection wells, the mechanical integrity test shall be conducted in accordance with 40 CFR 146.8.

(3) For class III injection wells, the mechanical integrity test shall be conducted in accordance with 40 CFR 146.8, except the casing shall be pressure tested by the use of a mechanical packer or retrievable plug.

(b) Each permittee shall be notified at least 30 days in advance by the secretary that a mechanical integrity test shall be performed, or a permittee may notify the department that a voluntary mechanical integrity test will be performed at least 14 days in advance of the test.

(c) Each permittee shall be required to cease injection operations immediately and to conduct a mechanical integrity test if continued use of an injection well constitutes a threat to public health or to waters of the state. Injection operations shall not be resumed until all of the following conditions are met:

(1) The test has been conducted.

(2) The test has demonstrated that the well has mechanical integrity.

(3) The well has been approved for use by the secretary.

(d) The secretary's authorized representative shall witness all of the pressure mechanical integrity tests performed.

(e) Each permittee shall submit results of all mechanical integrity tests to the secretary, in writing, within 30 days after the test has been conducted.

(f) 40 CFR 144.51(q), as in effect on July 1, 2008, is adopted by reference.

(Authorized by and implementing K.S.A. 2009 Supp. 55-1,117 and 65-171d; effective May 1, 1982; amended, T-83-49, Dec. 22, 1982; amended May 1, 1983; amended, T-86-47, Dec. 19, 1985; amended May 1, 1986; amended March 21, 1994; amended Aug. 6, 2010.)

***** Authenticated Kansas Administrative Regulation *****