where:
\[ P_m = \text{injection pressure at the wellhead in pounds per square inch} \]
\[ S_g = \text{specific gravity of injected fluid (unitless)} \]
\[ d = \text{injection depth in feet} \]

§ 147.1454 Existing Class II enhanced recovery and hydrocarbon storage wells authorized by rule.

(a) Maximum injection pressure. (1) To meet the operating requirements of §144.28(f)(3)(ii) (A) and (B) of this chapter, the owner or operator:
   (i) Shall use an injection pressure no greater than the pressure established by the Regional Administrator for the field or formation in which the well is located. The Regional Administrator shall establish such a maximum pressure after notice, opportunity for comment, and opportunity for a public hearing, according to the provisions of part 124, subpart A of this chapter, and will inform owners and operators in writing of the applicable maximum pressure; or
   (ii) May inject at pressures greater than those specified in paragraph (a)(1)(i) of this section for the field or formation in which injection is taking place. The Regional Administrator may grant such a request after notice, opportunity for comment, and public hearing, according to the provisions of part 124, subpart A of this chapter.

(b) Casing and cementing. Where the Regional Administrator determines that the owner or operator of an existing enhanced recovery or hydrocarbon storage well may not be in compliance with the requirements of §§144.28(e) and 146.22, the owner or operator shall comply with paragraphs (b) (1) through (4) of this section, when required by the Regional Administrator:
   (1) Protect USDWs by:
      (i) Cementing surface casing by recirculating the cement to the surface from a point 50 feet below the lowermost USDW; or
      (ii) Isolating all USDWs by placing cement between the outermost casing and the well bore; and
   (2) Isolate any injection zones by placing sufficient cement to fill the calculated space between the casing and the well bore to a point 250 feet above the injection zone; and
   (3) Use cement:
      (i) Of sufficient quantity and quality to withstand the maximum operating pressure;
      (ii) Which is resistant to deterioration from formation and injection fluids; and
      (iii) In a quantity no less than 120% of the calculated volume necessary to cement off a zone.
   (4) The Regional Administrator may specify other requirements in addition to or in lieu of the requirements set forth in paragraphs (b) (1) through (3) of this section, as needed to protect USDWs.

Subpart EE—New Hampshire

§ 147.1500 State-administered program.

The UIC program for all classes of wells in the State of New Hampshire, except those wells on Indian lands, is the program administered by the New Hampshire Department of Environmental Services, approved by the EPA pursuant to section 1422 of the SDWA. Notice of this approval was published in the FR on September 21, 1982 (47 FR...
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State-administered program.

The UIC program for all classes of wells in the State of New Jersey, except those on Indian lands, is the program administered by the New Jersey Department of Environmental Protection, approved by EPA pursuant to section 1422 of the SDWA. Notice of this approval was published in the Federal Register on July 15, 1983 (48 FR 32343); the effective date of this program is August 15, 1983. This program consists of the following elements, as submitted to EPA in the State’s program application.

(a) Incorporation by reference. The requirements set forth in the State statutes and regulations cited in this paragraph are hereby incorporated by reference and made a part of the applicable UIC program under the SDWA for the State of New Jersey. This incorporation by reference was approved by the Director of the Federal Register on June 25, 1984.

(1) Water Pollution Control Act, New Jersey Statutes Annotated sections 58:10A–1 through 58:10A–20 (West 1982 and Supp. 1990);


(b)(1) The Memorandum Agreement between EPA Region II and the New Jersey Department of Environmental Protection, signed by the EPA Regional Administrator on September 9, 1982:

(1) Letter from Commissioner, New Jersey Department of Environmental Protection, to Regional Administrator, EPA Region II, March 21, 1983.

(c) Statement of legal authority. (1) Letter from Attorney General of New Jersey (by Deputy Attorney General)