§ 147.1154 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. A single test may be submitted on behalf of two or more operators conducting operations in the same formation, if the Regional Administrator approves such submission. The data shall be submitted to the Regional Administrator within 1 year following the effective date of this program.

(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.

§ 147.1155 Requirements for all wells.

(a) **Area of review.** Notwithstanding the alternatives presented in §146.6 of this chapter, the area of review for Class II wells shall be a fixed radius as described in §146.6(b) of this chapter.

---

\[ P_m = (0.800 \times 0.433 S_g) d \]

where:
- \( P_m \) = injection pressure at the well head in pounds per square inch
- \( S_g \) = specific gravity of injected fluid (unitless)
- \( d \) = injection depth in feet.