United States Environmental Protection Agency Underground Injection Control (UIC) Program Class II Permit Application Completeness Review Checklist

Permit Number:
Well Name:
Well Type: Class II EOR Class II SWD Class II Commercial SWD
Permit Applicant:
Date Application Received:
Application Reviewed By:
CHECK BOX IF ITEM IS PROVIDED; IF NOT APPLICABLE, WRITE "NA"
Completed Permit Application Form 7520-6, including signature of an authorized representative
Attachment A. Maps and Area of Review
☐ I. Well Location(s) and Permitted Area Description (if area permit) (40 CFR 144.26; 144.33)
☐ II. Area of Review Size Determination – fixed radius or equation (40 CFR 144.6)
III. Maps (40 CFR 144.31; 146.24)
Topographic Map extending one-mile beyond facility property boundary showing: injection well, well pad, and project area area of review boundary
outcrops of injection and confining formation, <i>if present</i>surface water intake and discharge structures, <i>if present</i>
hazardous waste treatment, storage or disposal facility, <i>if present</i>
Map showing within ¼ - mile beyond facility property boundary or AOR (whichever is larger): name and location of production wells, injection wells, abandoned wells, dry holes, and all water wells, noting its type (public water system, domestic drinking water, stock, etc.), if present
springs and surface bodies of waters, <i>if present</i> mines (surface and subsurface) and quarries, <i>if present</i> residences, schools, hospitals, and roads, <i>if present</i>
IV. Area of Review (AOR) Wells and Corrective Action Plan (CAP) (40 CFR 144.55; 146.24) tabulation of AOR wells, if present well bore diagrams, CBL, completion records of AOR wells, if available AOR CAP, if applicable
V. Landowner Information (40 CFR 144.31 and part 147) ☐ list of landowners and address within ¼-mile ☐ evidence of notification to landowner of intent to apply for permit, if applicable
Attachment B. Geological and Geophysical Information
 I. Geological Data (40 CFR 146.24) list of formations from surface to the base of the injection well, identifying all the USDWs and confining and injection zone(s). List includes the lithologic description, geological name, thickness, depth, and total dissolved solids (TDS) concentrations from these formations, if known source of information for the geologic data and formation TDS

porosity and permeability of injection formation, if available
geological cross-sections, <i>if available</i> known or suspected faults and fracture systems within AOR. If identified, provide proximity
to the injection zone and affect fault/fracture system may have on the injection activities
history of seismic activity in the area and proximity to crystalline (i.e., granitic) basement, <i>if</i>
applicable
II. Formation Testing Plan (40 CFR 146.22)
fluid pressure
estimated fracture pressure
physical and chemical characteristics of the injection zone
Attachment C. Well Construction/Conversion Information
I. Well Schematic Diagram (40 CFR 146.24)
Detailed proposed well schematic diagram that includes: identification of USDWs and confining and injection zones
casing and cementing details, including demonstrated or calculated top of cement
tubing and packer, if applicable
open hole or perforated intervals
surface trace, if horizontal or deviated well
If conversion to injection well:
current well schematic diagram
II. Well Construction or Conversion Procedures (40 CFR 144.52; 146.22; 146.24)
Description of well construction or conversion procedures that includes:
proposed logs and other tests conducted during the drilling and construction of new well(s)
proposed stimulation plan(s), if applicable
description of alarms and shut-down systems at the well, <i>if applicable</i> If conversion to injection well:
well completion and cementing records
previously run logs/tests
Attachment D. Injection Operation and Monitoring Program (40 CFR 146.23; 146.24)
flow diagram of fluid flow through facility
contingency plan(s) to respond to with well failures
drawing of the surface construction
location of monitoring ports (show on the map(s) referenced in section A.III. above)
description of sampling and monitoring devices to monitor the nature of the injected fluids,
injection pressure, annulus pressure (if applicable), flowrate, and cumulative volume
description of manifold monitoring program and how the program is comparable to individual well monitoring
Operating Data Information:
average and maximum daily rate and volume of fluids to be injected
average and maximum injection pressure
source(s) of injection fluids (including field and formation names)
proposed annular fluid, if applicable
analysis of the chemical and physical characteristics of the injection fluid. At a minimum, this
should include pH, specific gravity, TDS, and conductivity
Attachment E. Plugging and Abandonment (P&A) Plan (40 CFR 144.31; 144.51; 146.24)
P&A plan of the well on EPA Form 7520-19

P&A diagram that includes: type, and number of plugs to be used placement of each plug including the elevation of top and bottom type, grade, and quantity of cement to be used method of placement of the plugs at least one cost estimates from an independent firm in the business of plugging and abandoning wells for third party (EPA) to complete proposed P&A plan
Attachment F. Financial Assurance (40 CFR 144.52) evidence of financial resources, such as a surety bond or financial statement, necessary to close, plug, or abandon the well
Attachment G. Site Security and Manifest Requirements (Commercial Wells Only; Form 7520) site security plan description of manifest system
Attachment H. Aquifer Exemption (AE) (40 CFR 144.7; 146.4) supporting documentation for proposed AE, if applicable
Attachment I. Existing EPA Permits (40 CFR 144.31) list of existing EPA permits, if applicable
Attachment J. Description of Business (40 CFR 144.31) description of the nature of the business
Attachment K. Optional Additional Project Information (40 CFR 144.4) The Wild and Scenic Rivers Act, 16 U.S.C. 1273 et seq. list of national wild and scenic rivers that may be impacted by the activities associated with proposed project, if applicable
The National Historic Preservation Act of 1966, 16 U.S.C. 470 et seq. list of properties listed or eligible for listing in the National Register of Historic Places. If available, historic and cultural resource survey(s) that have been conducted, <i>if applicable</i>
The Endangered Species Act, 16 U.S.C. 1531 et seq. list of endangered or threatened species that may be affected by the activities associated with proposed project. If available, previous endangered or threatened species surveys that have been conducted, <i>if applicable</i>
The Coastal Zone Management Act, 16 U.S.C. 1451 et seq. list of coastal zones that may be affected by the activities associated with the proposed project, if applicable