

US EPA ARCHIVE DOCUMENT

PLEASE NOTE

This checklist will be used to determine if your application is administratively complete.

Please be sure that each item is addressed in you application submittal. Attention to these details will facilitate the processing of your request for a permit in a timely manner.

PERMIT APPLICATION CHECKLIST
CLASS II WELLS

Operator:

Well or Project Name:

Application Number:

New or Existing:

Date Application Received:

Unless Otherwise Stated, Requirements Apply to Both
Existing and New Facilities.

Revised: February 20, 2009

____ UIC form 7520-6 completely and properly filled out and signed by an appropriate signatory. (§144.32)

Attachments A and B. Maps and Area of Review (AOR)

____ A topographic map extending one mile beyond the property boundaries. (§144.31)(e)(7))

This map shall show:

____ The facility and its boundaries.

____ Each intake and discharge structure, including rainwater collection ponds and holding ponds, within the AOR. If not applicable, it should state so.

____ Each hazardous waste treatment, storage and disposal facility within the AOR. If not applicable, it should be stated so.

____ Wells, springs and other surface water bodies and drinking water wells within the AOR. If not applicable, it should be stated so.

____ Each well where fluids from the facility are injected underground.

____ (New wells only) The area of review clearly marked and circumscribing a distance of ¼ mile beyond the well or proposed well; or ¼ mile beyond the area in the case of an area permit application (§146.24(a)(2))

____ (New wells only) All surface and subsurface mines, quarries, residences, roads, and known or suspected faults within the AOR. Only information of public record and pertinent information known to the applicant is required. If not applicable, it should be stated so. (§146.24(a)(2))

____ (New wells only) The number or name and location of all existing producing wells, abandoned wells, and dry holes within the area of review. (§146.24(a)(2))

____ The names and addresses of all owners of land within ¼ mile of the facility boundary. (May be waived for sites in urban areas.)(§144.31(e)(9))

Attachment C. Corrective Action (New Wells Only)

____ The type, construction, date drilled, location, depth, record of completion and plugging for each well in the AOR which penetrates the injection zone (§146.24(a)(3))

____ (New Class II wells which operate over the fracture pressure only) The type, construction, date drilled, location, depth, record of completion and plugging for each well within the AOR which penetrate formations affected by the increase in pressure. (§146.24(a)(3))

Attachment D. Maps and Cross Section of USDWs

Does not apply to Class II wells.

Attachment E. Underground Sources of Drinking Water (USDW)

___ All USDWs within the area of review should be described, to include (§146.24(a)(6)):

___ Geological name

___ Depth to bottom

Attachment F. Maps and Cross Sections of Geologic Structure of Area

Does not apply to Class II wells.

Attachment G. Injection and Confining Zones

___ A description of the injection zone, including (§146.24(a)(5)):

___ Lithologic description

___ Geologic name

___ Thickness

___ Depth

___ A description of the confining zone, including (§146.24(a)(5)) :

___ Lithologic description

___ Geologic name

___ Thickness

___ Depth

___ (New wells only) Known or suspected faults or fractures (§146.22(a))

Attachment H. Operating Data

___ Estimated average injection pressure (§146.24(a)(4)(ii))

___ Estimated maximum injection pressure (§146.24(a)(4)(ii))

___ Estimated average daily injection rate and volume (§146.24(a)(4)(i))

- ___ Estimated maximum daily injection rate and volume (§146.24(a)(4)(i))
- ___ Nature of the annulus fluid, including corrosion inhibitors
- ___ Pressure at which the annulus will be maintained
- ___ Source and analysis of the physical and chemical characteristics of the injection fluid (§146.24(a)(4)(iii))

Attachment I. Formation Testing Program (New Wells Only)

- ___ Proposed program to test the injection formation to obtain data on the fluid pressure, estimated fracture pressure, and physical and chemical characteristics. If these data are already available, submit them in lieu of a proposed testing program. (§146.24(b)(1) and §146.22(g))

Attachment J. Stimulation Program

- ___ Any proposed stimulation program. If no program is proposed, then state so. (§146.24(b)(2))

Attachment K. Injection Procedures

- ___ For manifold monitoring systems only, a description or diagram of pumps, tanks, surge, piping and storage facilities, including sizes and capacities. (§146.24(b)(3))

Attachment L. Construction Procedures (New Wells Only)

- ___ Proposed logs and tests, specifically those which related to USDWs and the adjacent confining zones, and the injection zone and adjacent formations. (§146.22(f))
- ___ Hole size(s) (§146.22(b)(2)(iv))
- ___ Sizes and grades of all casing strings (§146.22(b)(2)(iii) and (v))
- ___ Quantity and class of cement (§146.22(b)(2)(vi))

Attachment M. Wells Diagram(s)

- ___ Surface and subsurface schematic diagram of (proposed) well(s) (§146.24(a)(7))

Attachment N. Changes in Injected Fluid

Does not apply to Class II wells.

Attachment O. Plan for Well Failures

- ___ Contingency plan to cope with all shut-ins or well failures, so as to prevent migration of fluids into any USDW. Include plans for alternate disposal of fluids or process shutdown.

Attachment P. Monitoring Program

- ___ Proposed monitoring program (§146.24(b)(5))

Attachment Q Plugging and Abandonment Plan

- ___ Proposed plugging and abandonment plan (§146.24(d))
- ___ The current cost(s) needed to properly close, plug and abandon the well(s)

Attachment R. Financial Responsibility

- ___ Evidence of financial responsibility, or method to be used to demonstrate financial responsibility prior to permit issuance (§146.24(a)(9))

Attachment S. Aquifer Exemptions (Existing Wells Only)

- ___ If an aquifer exemption is requested, necessary data must be submitted to verify the exemption. (§146.4)

Attachment T. Existing Permits (Existing Wells Only)

- ___ A listing of all permits or construction approvals received or applied for under any relevant State, EPA or environmental permits, including RCRA, UIC, NPDES, PSD, NESHAPS, ocean dumping permits, and dredge and fill permits. (§144.31(e)(6))

Attachment U. Description of Business

- ___ A brief description of the nature of the business. (§144.31(e)(8))