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that this strata is free of known transmissive faults of fractures and that there is a confining zone above the injection zone.

- (c) A demonstration under §148.20(a)(1)(ii) shall identify the strata within the injection zone where waste transformation will be accomplished and include a showing that this strata is free of known transmissive faults or fractures and that there is a confining zone above the injection zone.
- (d) A demonstration may include a showing that:
- (1) Treatment methods, the implementation of which shall become a condition of petition approval, will be utilized that reduce the toxicity or mobility of the wastes; or
- (2) A monitoring plan, the implementation of which shall become a condition of petition approval, will be utilized to enhance confidence in one or more aspects of the demonstration.
- (e) Any person who has been granted an exemption pursuant to this section may submit a petition for reissuance of the exemption to include an additional restricted waste or wastes or to modify any conditions placed on the exemption by the Director. The Director shall reissue the petition if the petitioner complies with the requirements of paragraphs (a), (b) and (c) of this section.
- (f) Any person who has been granted an exemption pursuant to this section may submit a petition to modify an exemption to include an additional (hazardous) waste or wastes. The Director may grant the modification if he determines, to a reasonable degree of certainty, that the additional waste or wastes will behave hydraulically and chemically in a manner similar to previously included wastes and that it will not interfere with the containment capability of the injection zone.

§ 148.21 Information to be submitted in support of petitions.

- (a) Information submitted in support of \$148.20 must meet the following criteria:
- (1) All waste analysis and any new testing performed by the petitioner shall be accurate and reproducible and performed in accordance with quality assurance standards:

- (2) Estimation techniques shall be appropriate, and EPA-certified test protocols shall be used where available and appropriate;
- (3) Predictive models shall have been verified and validated, shall be appropriate for the specific site, waste streams, and injection conditions of the operation, and shall be calibrated for existing sites where sufficient data are available:
- (4) An approved quality assurance and quality control plan shall address all aspects of the demonstration;
- (5) Reasonably conservative values shall be used whenever values taken from the literature or estimated on the basis of known information are used instead of site-specific measurements; and
- (6) An analysis shall be performed to identify and assess aspects of the demonstration that contribute significantly to uncertainty. The petitioner shall conduct a sensitivity analysis to determine the effect that significant uncertainty may contribute to the demonstration. The demonstration shall then be based on conservative assumptions identified in the analysis.
- (b) Any petitioner under §148.20(a)(1)(i) shall provide sufficient site-specific information to support the demonstration, such as:
- (1) Thickness, porosity, permeability and extent of the various strata in the injection zone;
- (2) Thickness, porosity, permeability, extent, and continuity of the confining zone;
- (3) Hydraulic gradient in the injection zone;
- (4) Hydrostatic pressure in the injection zone; and
- (5) Geochemical conditions of the site.
- (c) In addition to the information in §148.21(b), any petitioner under §148.20(a)(1)(ii) shall provide sufficient waste-specific information to ensure reasonably reliant predictions about the waste transformation. The petitioner shall provide the information necessary to support the demonstration, such as:
- (1) Description of the chemical processes or other means that will lead to waste transformation; and

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(2) Results of laboratory experiments verifying the waste transformation.

§ 148.22 Requirements for petition submission, review and approval or denial.

- (a) Any petition submitted to the Director pursuant to §148.20(a) shall include the following components:
- (1) An identification of the specific waste or wastes and the specific injection well or wells for which the demonstration will be made;
- (2) A waste analysis to describe fully the chemical and physical characteristics of the subject wastes;
- (3) Such additional information as is required by the Director to support the petition under §§ 148.20 and 148.21; and
- (4) This statement signed by the petitioner or an authorized representative:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this petition and all attached documents, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

- (b) The Director shall provide public notice and an opportunity for public comment in accordance with the procedures in §124.10 of the intent to approve or deny a petition. The final decision on a petition will be published in the FEDERAL REGISTER.
- (c) If an exemption is granted it will apply only to the underground injection of the specific restricted waste or wastes identified in the petition into a Class I hazardous waste injection well or wells specifically identified in the petition (unless the exemption is modified or reissued pursuant to §148.20(e) or (f).
- (d) Upon request by any petitioner who obtains an exemption for a well under this subpart, the Director shall initiate and reasonably expedite the necessary procedures to issue or reissue a permit or permits for the hazardous waste well or wells covered by the exemption for a term not to exceed ten years.

§ 148.23 Review of exemptions granted pursuant to a petition.

- (a) When considering whether to reissue a permit for the operation of a Class I hazardous waste injection well, the Director shall review any petition filed pursuant to §148.20 and require a new demonstration if information shows that the basis for granting the exemption may no longer be valid.
- (b) Whenever the Director determines that the basis for approval of a petition may no longer be valid, the Director shall require a new demonstration in accordance with §148.20.

§ 148.24 Termination of approved petition.

- (a) The Director may terminate an exemption granted under §148.20 for the following causes:
- (1) Noncompliance by the petitioner with any condition of the exemption;
- (2) The petitioner's failure in the petition or during the review and approval to disclose fully all relevant facts, or the petitioner's misrepresentation of any relevant facts at any time: or
- (3) A determination that new information shows that the basis for approval of the petition is no longer valid.
- (b) The Director shall terminate an exemption granted under §148.20 for the following causes:
- (1) The petitioner's willful withholding during the review and approval of the petition of facts directly and materially relevant to the Director's decision on the petition;
- (2) A determination that there has been migration from the injection zone or the well that is not in accordance with the terms of the exemption, except that the Director may at his discretion decide not to terminate where:
- (i) The migration resulted from a mechanical failure of the well that can be corrected promptly through a repair to the injection well itself or from an undetected well or conduit that can be plugged promptly; and
- (ii) The requirements of §146.67(i) are satisfied.
- (c) The Director shall follow the procedures in §124.5 in terminating any exemption under this section.