

ENVIRONMENTAL PROTECTION COMMISSION[567]

Adopted and Filed

Pursuant to the authority of Iowa Code section 455B.474, the Environmental Protection Commission hereby amends Chapter 135, “Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks,” Iowa Administrative Code.

The Commission adopted rules that were published in the July 2, 2008, Iowa Administrative Bulletin as **ARC 6892B**. The rules were scheduled to take effect on August 6, 2008. The rules contained some provisions that were relatively uncontroversial and some provisions that were controversial. The more controversial rules in part established a policy and procedure for the assessment of the potential risk of impact from underground storage tank (UST) petroleum releases to public water supply wells (PWSWs) which are located outside the actual or modeled contaminated groundwater plume. The rules established an assessment protocol in which owners and operators of USTs and the Department shared responsibility to initially conduct sufficient assessment of soil and groundwater contamination to determine the likelihood that a UST release could impact a PWSW. If sufficient evidence of potential or actual impact was established, the rules placed responsibility on the owner and operator to conduct further risk assessment and corrective action as necessary to protect human health and safety.

In response to public comment, some of which supported and some of which objected to the rules, the Administrative Rules Review Committee (ARRC) at a public meeting on July 8, 2008, imposed a 70-day delay on the entire rule making (**ARC 6892B**) pursuant to Iowa Code section 17A.4(6). The ARRC requested that the primary stakeholders and Department staff attempt to reach a resolution of their differences. The 70-day delay, by law, expired October 16, 2008.

The Department and other stakeholders reached an agreement which generally provides for the Department and the Iowa Comprehensive Petroleum Underground Storage Tank Fund Board (UST Fund) to enter into an intergovernmental agreement (28E Agreement) to jointly develop and implement a study of the risk to PWSWs from UST petroleum releases. The study is funded by public funds under the control of the UST Fund. The stakeholder agreement also required that the Commission agree to initiate a rule making to rescind those parts of the adopted rules in **ARC 6892B** which are controversial and relate to the PWSW risk assessment protocol and to amend Chapter 135 to clarify the responsibility of owners and operators to undertake further assessment and corrective action in the event the study confirms unacceptable risk to PWSWs. The stakeholders agreed not to object to the noncontroversial parts of the rule making published as **ARC 6892B**.

On October 14, 2008, the ARRC voted to impose a partial delay until adjournment of the 2009 Session of the General Assembly pursuant to Iowa Code section 17A.8(9). (See the November 5, 2008, Iowa Administrative Bulletin.) In recognition of the stakeholder agreement, the ARRC imposed a session delay only on those more controversial portions of the adopted rules published as **ARC 6892B** which dealt with the PWSW assessment protocol. The effect of the partial delay was that the prior 70-day delay on the remainder of the rule making expired October 16, 2008. The rules not subject to the session delay became effective October 17, 2008.

At a public meeting held on November 10, 2008, the Commission reviewed and approved the proposed stakeholder agreement, including the 28E Agreement and the Notice of Intended Action (**ARC 7400B**) for these final adopted rules.

The terms of the 28E Agreement are generally accepted as being sufficient to protect PWSWs during the study. The terms of the 28E Agreement explicitly acknowledge that, in the event sufficient proof of unreasonable risk to a PWSW is established during the study, the UST Fund would provide funding to take necessary corrective action under two basic circumstances: (1) When the UST site claimant is otherwise “fund eligible,” assessment and corrective action to address risk to the PWSW would be treated as a fund-eligible cost; and (2) When the Department has issued a no further action certificate (NFA certificate) prior to a determination of risk to the PWSW, the UST Fund shall agree to provide funding for corrective action pursuant to the authority granted in Iowa Code section 455G.9(1)“k.” This

provision generally specifies that the Department and UST Fund enter into an agreement to provide a funding mechanism to address unreasonable risk which is discovered after issuance of an NFA certificate and which is not the result of a release which occurs after the release for which the NFA certificate has been issued.

Under the 28E Agreement, it is possible that the study could result in establishing sufficient proof of risk to a PWSW which is located outside the actual or modeled groundwater plume. In recognition of this fact, the EPC, with the support of the participating stakeholders, has adopted language to clarify the authority of the Commission, under 567—Chapter 135, to require the responsible UST owner and operator to undertake further assessment and corrective action consistent with the risk-based corrective action rules 567—135.8(455B) through 567—135.12(455B) when the Tier 2 groundwater model is shown to be underpredictive.

The amendments contained herein, which were published as a Notice of Intended Action on December 3, 2008, as **ARC 7400B**, rescind those parts of the rules adopted in **ARC 6892B** that established the policy and procedure for conducting risk assessments for PWSWs outside the actual or modeled plume. One person provided two comments on the Notice of Intended Action. The first was a suggestion to change the Preamble to reflect that if during the course of the PWSW study an existing well or area is determined to be at risk for petroleum contamination, the Department would take measures to prohibit the permitting of construction of wells in the vulnerable aquifer. While it is prudent to take such measures as suggested to prevent risk, this type of action is addressed under a different chapter, 567—Chapter 43, not 567—Chapter 135. The second concern pertained to the language of subrule 135.8(1), new paragraph “e” (Item 2). At its February 17, 2009, public meeting, the Commission agreed to address this concern by amending 135.8(1)“e” to require further assessment of only the groundwater ingestion pathway if the site presents an unreasonable risk to a public water supply well and the model used to obtain the pathway clearance underpredicts movement of the contaminant plume.

The Commission adopted these amendments at its public meeting on February 17, 2009.

These amendments are intended to implement Iowa Code section 455B.474.

These amendments shall become effective April 15, 2009.

The following amendments are adopted.

ITEM 1. Rescind the definition of “Sensitive area” in rule **567—135.2(455B)**.

ITEM 2. Adopt the following **new** paragraph **135.8(1)“e”**:

e. Pathway reevaluation. Prior to issuance of a no further action certificate in accordance with 135.12(10) and Iowa Code section 455B.474(1)“h”(3), if it is determined that the conditions for an individual pathway that has been classified as “no action required” no longer exist, or the site presents an unreasonable risk to a public water supply well and the model used to obtain the pathway clearance underpredicts the actual contaminant plume, the individual pathway shall be further assessed consistent with the risk-based corrective action provisions in rules 567—135.8(455B) through 567—135.12(455B).

ITEM 3. Rescind and reserve paragraph **135.9(4)“f.”**

ITEM 4. Amend paragraphs **135.10(4)“a”** and **“b”** as follows:

a. Pathway completeness. Unless cleared at Tier 1, this pathway is complete and must be evaluated under any of the following conditions: (1) the first encountered groundwater is a protected groundwater source; or (2) there is a drinking water well or a non-drinking water well within the modeled groundwater plume or the actual plume as provided in 135.10(2)“j” and 135.10(2)“k.” ~~A public water supply screening and risk assessment must be conducted in accordance with 135.10(4)“f” for this pathway.~~

b. Receptor evaluation. All drinking and non-drinking water wells located within 100 feet of the largest actual plume (defined to the appropriate target level for the receptor type) must be tested, at a minimum, for chemicals of concern as part of the receptor evaluation. Actual plumes refer to groundwater plumes for all chemicals of concern. Untreated or raw water must be collected for analysis unless it is determined to be infeasible or impracticable. ~~The certified groundwater professional or the~~

~~department may request additional sampling of drinking water wells and non-drinking water wells as part of its evaluation.~~

All existing drinking water wells and non-drinking water wells within the modeled plume or the actual plume as provided in paragraph “a” must be evaluated as actual receptors. Potential receptors only exist if the groundwater is a protected groundwater source. Potential receptor points of exposure are those points within the modeled plume or actual plume that exceed the potential point of exposure target level. The point(s) of compliance for actual receptor(s) is the receptor. The point(s) of compliance for potential receptor(s) is the potential receptor point of exposure as provided in 135.10(2) “j” and 135.10(2) “k.”

ITEM 5. Rescind and reserve paragraph **135.10(4)“f.”**

ITEM 6. Rescind and reserve paragraph **135.10(11)“h.”**

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EDITOR’S NOTE: For replacement pages for IAC, see IAC Supplement 3/11/09.