U.S. EPA Update: National Drinking Water Protection Program

| February 17, 2020
EPA'S UNDERGROUND INJECTION CONTROL PROGRAM PRIORITIES

- Improving efficiency and transparency
- Building strong partnerships and engaging stakeholders
- Investing in training and education
- Balancing protection and sustainability
Improvements in Efficiency

Efficiency Improvements

- Increase timeliness
- Improve processes
- Enhance transparency
- Facilitate coordination
- Manage resources responsibly

Adaptive strategies

Proactive responses
Modern systems
Streamlined approaches
Efficient resource use
UIC Permitting

**UIC DI Permit Applications >180 Days**

<table>
<thead>
<tr>
<th>Permit Applications</th>
<th>June 2018</th>
<th>December 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>41</td>
<td>17</td>
<td></td>
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- Class V
- Class III
- Class II
- Class I

Visual Management

Standard Process

Performance Measures
45Q Tax Credit for Carbon Oxide Sequestration

- Provides tax credits to eligible CCUS projects, including carbon oxide disposed of in secure geological storage
- Congress amended 45Q with the 2018 Bipartisan Budget Act (BBA)
- Department of Treasury and IRS “anticipate issuing regulations and other guidance to implement the provisions of 45Q” (IRS Notice 2019-32)

<table>
<thead>
<tr>
<th>Then</th>
<th>Now</th>
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<tbody>
<tr>
<td>• Captured <em>carbon dioxide</em> eligible for credit</td>
<td>• Captured <em>carbon oxides</em> eligible for credit</td>
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<tr>
<td>• $20 per ton stored</td>
<td>• Up to $50 per ton stored</td>
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<tr>
<td>• $10 per ton utilized for EOR</td>
<td>• Up to $35 per ton utilized (EOR or other)</td>
</tr>
<tr>
<td>• Capped at 75 million tons in total</td>
<td>• Credit can be claimed for up to 12 years</td>
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<td>• Projects must start construction before Jan. 1, 2024</td>
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UIC Class VI
Data Visualization Tools to Increase Effectiveness: Qlik Reports
Data Visualization Tools to Increase Effectiveness

- Qlik reports available in the UIC Data Application
- FY19 4Q data shows data from about 80% of programs
- Class II wells received around 90% of violations
- Greatest numbers of violations
  - monitoring & reporting, overall
  - mechanical integrity for Class II
  - unauthorized injection for Class V

Types of Violations in FY 2019
### UIC Primacy Applications and Program Revisions

**Pre-Application Activities**
- West Virginia (1422/1425)
- Puerto Rico (1422)
- Arizona (1422)
- Louisiana (1422-Class VI)

**Completeness Determination**
- Michigan (1425)

**Application Evaluation**
- New Mex. (1422)
- Wyoming (1422-Class VI)

**Rulemaking and Codification**
- North Dakota (1422)

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**Program Revisions; New Primacy Applications**

[https://www.epa.gov/uic/primary-enforcement-authority-underground-injection-control-program](https://www.epa.gov/uic/primary-enforcement-authority-underground-injection-control-program)

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**Improving Efficiency and Transparency**
UIC Comprehensive Program Evaluations (CPE)

• EPA’s framework for conducting UIC comprehensive program evaluations (CPE) brings **transparency** to the oversight process and establishes **consistency** in EPA state primacy program reviews.

• Consistent with the final CPE established for well classes I, II, III, and VI, the Class V addendum establishes a transparent program-level approach to EPA oversight.
UIC Training Initiative

Underground Injection Control

Introduction to the Underground Injection Control (UIC) Program and Injection Well Permitting

Lesson 1 Introduction to UIC

More information can be found at: https://www.epa.gov/uic
Draft
National Water Reuse Action Plan

Balancing protection and sustainability
Other Sustainability Issues

Balancing protection and sustainability
THANK YOU