



On the Radar

Environmental Obligations and Asset Retirement Obligations

Environmental obligations can arise from (1) the improper operation, retirement, or closing of a facility and (2) the current or former ownership of a facility at or near a contaminated site. Entities that have incurred a legal obligation to remove or remediate pollution or contaminants from environmental media such as soil, sediment, groundwater, and surface water are generally required to recognize an environmental remediation liability in their financial statements when certain conditions are met.

An asset retirement obligation (ARO) is a legal or contractual obligation associated with the retirement of a tangible long-lived asset that results from the acquisition, construction, development, and normal operation of that long-lived asset.

The FASB has established specific guidance on accounting for environmental obligations and AROs in ASC 410.

An ARO that results from the normal operation of a long-lived asset and is associated with the retirement of that asset

ASC 410-20 applies.

Environmental remediation liabilities resulting from the improper operation of a long-lived asset

ASC 410-30 applies.

Environmental Remediation Liabilities

The FASB's guidance on accounting for environmental remediation liabilities is codified in ASC 410-30, and the recognition and disclosure guidance is principally based on a framework outlined by the guidance on loss contingencies in ASC 450-20. Environmental remediation liabilities are a specific type of contingent liability that arises from federal, state, and local environmental regulations — or, in some instances, international treaties — related to contamination in soil, sediment, groundwater, and surface water.

In the United States, the U.S. Environmental Protection Agency (EPA) is the primary, though not the only, environmental regulator. Other federal, tribal, state, or local agencies may also have authority to regulate environmental programs. The guidance on accounting for environmental liabilities classifies laws into two categories: (1) environmental remediation liability laws and (2) laws intended to control or prevent pollution. The following are some of the main federal regulations that serve as drivers of environmental liabilities:

- The Clean Air Act of 1970 (CAA).
- The Clean Water Act of 1972 (CWA).
- The Toxic Substances Control Act of 1976 (TSCA).
- The Resource Conservation and Recovery Act of 1976 (RCRA).
- The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA or the "Superfund").

As with other contingent liabilities, an environmental remediation liability is recognized when it is probable that such a liability has been incurred and the amount of the liability can be reasonably estimated. There is often uncertainty about whether and, if so, when a legal obligation for environmental remediation has been incurred. The existence and amount of an environmental remediation liability often become determinable over a continuum of events and activities. A typical environmental remediation process consists of the following steps:



ASC 410-30 provides specific benchmarks for an entity to consider when evaluating the probability of a loss and the extent to which any loss is reasonably estimable. One such benchmark requires recognition of an environmental liability once a feasibility study is substantially complete, which is no later than when PRPs recommend a proposed course of action to the EPA. Sometimes the EPA performs and completes its own feasibility study in lieu of, or in addition to, a PRP-conducted feasibility study. Thus, a PRP-recommended course of action may not always take place, or it may occur after the EPA's completion of a feasibility study and related recommended course of action.

If the EPA completes a feasibility study for a particular site before PRPs have recommended their proposed course of action, the ASC 410-30 recognition benchmark is met and a liability must therefore be recognized at the time the EPA completes the feasibility study.

When the recognition criteria are met, entities initially measure environmental remediation liabilities at the estimated cost of remediating the site; generally, environmental remediation liabilities are not discounted unless certain conditions are met. Estimated remediation costs are continually updated, and the recorded liability is adjusted prospectively until the obligation is settled.

In a manner consistent with the guidance in ASC 450-20 and ASC 275 on other loss contingencies and uncertainties, entities are required to disclose the existence of environmental remediation loss contingencies when it is at least reasonably possible that a loss has been incurred regardless of whether the loss is reasonably estimable. Additional disclosure requirements exist for recognized environmental remediation loss contingencies.

Asset Retirement Obligations

Unlike an environmental liability, which results from the improper use of a long-lived asset, an ARO exists when an entity has an unconditional obligation associated with the retirement of a tangible long-lived asset used under normal operations. Like environmental obligations, AROs can arise from an existing or enacted law. However, unlike many environmental obligations, AROs can also arise (1) from statute, ordinance, or written or oral contract or (2) by legal construction of a contract under the doctrine of promissory estoppel.

Entities should evaluate the existence of legal obligations on the basis of current laws, regulations, contractual obligations, and related interpretations and facts and circumstances and should not forecast changes in laws or interpretations of such laws and regulations. The impacts of changes in laws or regulations should be considered in the period in which such laws or regulations are enacted.

An ARO is recognized at fair value when incurred or when a reasonable estimate of its fair value can be made. An asset retirement cost (ARC) is recorded by increasing the associated long-lived asset's carrying value. The ARC is depreciated over the useful life of the long-lived asset. An ARO liability is discounted and recorded at present value, and accretion of an ARO liability due to the passage of time is recognized as a component of operating expense. Revisions to the estimated timing or amount of cash flows associated with the retirement activities are recognized as an increase or decrease in the carrying amount of the ARO and the related ARC.

Entities often incorporate the use of internal resources into their remediation plans. The guidance in ASC 410-20 requires the amounts included in the ARO cash flow estimate to reflect costs that a third party would incur to conduct retirement activities. Therefore, in addition to internal resources, entities need to consider incremental costs (e.g., overhead, equipment charges, profit margin) to ensure that the amounts included in the ARO cash flow estimate reflect costs that a third party would incur. Accordingly, if an entity settles the ARO by using its own internal resources, the incorporation of third-party and marketplace assumptions into the estimate of ARO cash flows and the initial measurement of the ARO will most likely result in the recognition of gains upon the settlement of the ARO.

Application of the guidance in ASC 410-20 can be complex and requires significant management estimates and judgment. For example, determining whether a legal obligation to retire a long-lived asset has been incurred may not always be clear and unambiguous. If an entity makes a promise to a third party, including the public at large, about its intentions to undertake asset retirement activities, significant judgment may be required in the determination of whether the entity has created a legal obligation under the legal doctrine of promissory estoppel, which is defined in ASC 410-20-20 (citing *Black's Law Dictionary*, seventh edition) as the "principle that a promise made without consideration may nonetheless be enforced to prevent injustice if the promisor should have reasonably expected the promisee to rely on the promise and if the promisee did actually rely on the promise to his or her detriment."

Regulatory Landscape

Driven by investor demand, stakeholder pressures, and, more recently, regulatory attention, companies are increasingly focused on climate-related and environmental matters. In addition, climate change has been a central topic of U.S. policy discussions in many government departments and agencies. In the current and forthcoming regulatory environment, it will be essential for companies to closely monitor their environmental obligations under new or changing laws and regulations.

EPA's Final Rule on Legacy CCR Surface Impoundments and CCR Management Units

On May 8, 2024, the EPA's [final rule](#) on legacy coal combustion residuals (CCR) surface impoundments and CCR management units (CCRMUs) was published in the *Federal Register*. The three main elements of the final rule are as follows:

- *Legacy CCR surface impoundments* — The final rule introduces a definition for legacy CCR surface impoundments, which are inactive surface impoundments at inactive power plants. These impoundments must adhere to the same regulations as inactive CCR impoundments at active power plants, barring location restrictions and liner design criteria, with customized compliance deadlines.
- *CCRMUs* — The final rule stipulates groundwater monitoring, corrective action, closure, and postclosure care requirements for CCRMUs, which are at active and inactive power plants with a legacy CCR surface impoundment. CCRMUs include CCR surface impoundments and landfills closed before October 19, 2015, and inactive CCR landfills.
- *Facility evaluation reports (FERs)* — The final rule mandates new reporting requirements. The owners and operators of legacy CCR surface impoundments must prepare FERs that identify and describe the CCRMUs. In a manner consistent with existing CCR rules, facilities must publish FERs on their CCR Web sites in two parts, within 15 months (Part 1) and 27 months (Part 2) of the final rule's effective date.

Climate and Sustainability Matters

On March 6, 2024, the SEC issued a [final rule](#) that requires registrants to provide climate-related disclosures in their annual reports and registration statements. Specifically, registrants must disclose certain climate information in the notes to the financial statements and outside the financial statements. For example, in the footnotes to the financial statements, a registrant must disclose (1) financial statement impacts due to severe weather events and other natural conditions, including the aggregate expenditures incurred, losses recognized, and capitalized costs and charges, subject to certain thresholds; (2) a rollforward of carbon offsets or renewable energy certificates (RECs) if the registrant's use of carbon offsets and RECs is a material component of its plan to achieve its disclosed climate-related targets or goals; and (3) whether and, if so, how severe weather events and other natural conditions and disclosed climate-related targets or transition plans materially affected estimates and assumptions reflected in the financial statements. Large accelerated filers and accelerated filers must provide disclosures outside the financial statements about their material Scope 1 and Scope 2 greenhouse gas (GHG) emissions, subject to assurance requirements that will be phased in. In addition, all registrants, regardless of filer status, are required to disclose outside the financial statements (1) governance and oversight related to material climate-related risks; (2) the material impact of climate-related risks on the company's strategy, business model, and outlook, including material expenditures and impacts related to targets, goals, and related activities or mitigation; (3) the risk management processes for material climate-related risks; and (4) material climate targets and goals.

On April 4, 2024, the SEC voluntarily [stayed](#) the effective date of the final rule pending judicial review of petitions challenging it, which have been consolidated for review by the U.S. Court of Appeals for the Eighth Circuit. For more information about the final rule, see Deloitte's [March 6, 2024 \(updated April 8, 2024\)](#), and [March 15, 2024 \(updated April 8, 2024\)](#), *Heads Up* newsletters.

On March 27, 2025, the SEC voted to [withdraw](#) its legal defense of the final rule. On April 24, 2025, the court issued an order pausing the case and instructed the SEC to provide a status report within 90 days indicating whether it intends to review or reconsider the rule.

Concurrently with the SEC's rulemaking activities related to climate disclosures, its Division of Corporation Finance (the "Division") has continued to issue comment letters to registrants in various industries regarding climate-change disclosures. The Division has publicly released such comment letters and registrants' responses to them.

Many companies are publicly committing to achieve environmental goals related to climate change and sustainability. Public commitments about intentions to undertake a certain course of action with respect to asset retirement activities can result in an entity's incurrence of an ARO that must be recognized in the financial statements under the doctrine of promissory estoppel. Companies should carefully monitor and evaluate their public commitments and work closely with legal counsel to evaluate their own specific circumstances in determining whether legal obligations have been incurred.

Deloitte's Roadmap *Environmental Obligations and Asset Retirement Obligations* comprehensively discusses the recognition, measurement, presentation, and disclosure guidance in ASC 410-20 and ASC 410-30.

Contacts



Andrew Pidgeon

Audit & Assurance
Partner
Deloitte & Touche LLP
+1 415 783 6426
apidgeon@deloitte.com

For information about Deloitte's environmental obligation and ARO service offerings, please contact:



Will Braeutigam

Audit & Assurance
Partner
Deloitte & Touche LLP
+1 713 982 3436
wbraeutigam@deloitte.com



Jamie Varkey

Advisory Senior Manager
Deloitte Transactions and
Business Analytics LLP
+1 214 840 7944
jamivarkey@deloitte.com

Dbriefs for Financial Executives

We invite you to participate in [Dbriefs](#), Deloitte's live webcasts that give you valuable insights into important developments affecting your business. Topics covered in the [Dbriefs for Financial Executives](#) series include financial reporting, tax accounting, business strategy, governance, and risk. Dbriefs also provide a convenient and flexible way to earn CPE credit — right at your desk.

Subscriptions

To subscribe to Dbriefs, or to receive accounting publications issued by Deloitte's Accounting and Reporting Services Department, please visit [My.Deloitte.com](https://my.deloitte.com).

The Deloitte Accounting Research Tool

The [Deloitte Accounting Research Tool](#) (DART) is a comprehensive online library of accounting and financial disclosure literature. It contains material from the FASB, EITF, AICPA, PCAOB, and SEC, in addition to Deloitte's own accounting manuals and other interpretive guidance and publications.

Updated every business day, DART has an intuitive design and powerful search features that enable users to quickly locate information anytime, from any device and any browser. Users can also work seamlessly between their desktop and mobile device by downloading the DART by Deloitte [mobile app](#) from the App Store or Google Play. While much of the content on DART is available at no cost, subscribers have access to premium content, such as Deloitte's *FASB Accounting Standards Codification Manual*. DART subscribers and others can also [subscribe](#) to *Weekly Accounting Roundup*, which provides links to recent news articles, publications, and other additions to DART. For more information, or to sign up for a free 30-day trial of premium DART content, visit dart.deloitte.com.



On the Radar is prepared by members of Deloitte's National Office. This publication contains general information only and Deloitte is not, by means of this publication, rendering accounting, business, financial, investment, legal, tax, or other professional advice or services. This publication is not a substitute for such professional advice or services, nor should it be used as a basis for any decision or action that may affect your business. Before making any decision or taking any action that may affect your business, you should consult a qualified professional advisor. Deloitte shall not be responsible for any loss sustained by any person who relies on this publication.

The services described herein are illustrative in nature and are intended to demonstrate our experience and capabilities in these areas; however, due to independence restrictions that may apply to audit clients (including affiliates) of Deloitte & Touche LLP, we may be unable to provide certain services based on individual facts and circumstances.

About Deloitte

Deloitte refers to one or more of Deloitte Touche Tohmatsu Limited, a UK private company limited by guarantee ("DTTL"), its network of member firms, and their related entities. DTTL and each of its member firms are legally separate and independent entities. DTTL (also referred to as "Deloitte Global") does not provide services to clients. In the United States, Deloitte refers to one or more of the US member firms of DTTL, their related entities that operate using the "Deloitte" name in the United States and their respective affiliates. Certain services may not be available to attest clients under the rules and regulations of public accounting. Please see www.deloitte.com/us/about to learn more about our global network of member firms.