Deepwater Horizon Oil Spill: Highlighted Actions and Issues

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Summary

This report highlights actions taken and issues raised as a result of the April 20, 2010, explosion on the Deepwater Horizon offshore drilling rig, and the resulting oil spill in the Gulf of Mexico. Readers can access more extensive discussions in various CRS reports, identified at the end of this report.

Members in the 112th Congress continue to express concerns regarding various oil spill-related policy matters. At least three committees in both the House and the Senate have held hearings on issues associated with the Deepwater Horizon oil spill. Members have introduced multiple proposals that would address various issues, including:

- the regulatory regime for outer continental shelf (OCS) oil exploration and development activities;
- the liability and compensation framework created by the 1990 Oil Pollution Act;
- technological challenges involved with deepwater activities;
- response activities (e.g., the use of chemical dispersants) and decision-making.

However, some argue that, in response to the Deepwater Horizon incident, the Administration has adopted less than optimal policies toward offshore oil exploration and development. Expressing this viewpoint, some Members have offered proposals that seek to spur offshore oil exploration and development. In recent days, the House passed three such bills: H.R. 1230 (May 5, 2011), H.R. 1229 (May 11, 2011), and H.R. 1231 (May 12, 2011).

Future congressional activity may be influenced by several factors, including conditions in the Gulf region, independent inquiries, judicial actions, and the availability of data for further study.

Multiple executive branch agencies continue to respond to the incident within the framework of the National Contingency Plan. For example, the U.S. Coast Guard plays a key role in response efforts, because the spill occurred in the coastal zone. In addition, the Bureau of Ocean Energy Management, Regulation, and Enforcement (BOEMRE), formerly known as the Minerals Management Service (MMS), initiated internal procedures for safety inspections and other regulatory functions for offshore operations.

As a responsible party for the spill, BP worked to control the well and the spill and continues to perform cleanup measures at the direction of the federal government. According to BP’s recent financial statements, the total costs of the 2010 Gulf spill are projected to dwarf those of the Exxon Valdez. In its 2010 financial statement, BP estimated the combined oil spill costs—cleanup, natural resource and economic damages, potential Clean Water Act (CWA) penalties, and other obligations—will be approximately $41 billion.
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Overview of Spill Response Efforts

In the aftermath of the explosion of the Deepwater Horizon offshore drilling rig on April 20, 2010, the federal government and responsible parties faced an unprecedented challenge in the Gulf of Mexico. Never before had a subsea drilling system blowout of this magnitude, or an oil spill of this size—estimated at approximately 206 million gallons (4.9 million barrels)—occurred in U.S. waters. The spill continued for approximately 84 days, until, following several attempts, responders gained control of the oil discharge on July 15, 2010.

- Response activities continue but have diminished substantially compared to the height of operations. During the 2010 summer, personnel levels rose to 47,000; vessel numbers approached 7,000. Approximately 2,000 federal response personnel remain in the Gulf region (as of April 8, 2011). For updated response activity see the Unified Command website at http://www.restorethegulf.gov.

- The natural resources damage assessment (NRDA) process is progressing as federal and state natural resource trustees have moved from a pre-assessment phase to a restoration planning phase.

- On behalf of BP, the Gulf Coast Claims Facility (GCCF) continues to compensate parties for economic losses resulting from the oil spill. As of May 2, 2011, the GCCF has awarded over $4 billion to individuals and businesses.

Much of this material is covered in greater detail in the CRS reports listed in the “CRS Reports for Further Reading” section at the end of this report. Citations and footnotes are available in each of these reports, but are not included in this abridged version.

Congressional Actions

Although attention to issues raised by the 2010 Gulf oil spill has arguably diminished in the 112th Congress (relative to activity in the 111th Congress—see text box below), some Members continue to express concerns regarding various oil spill-related policy matters. At least three committees in both the House and the Senate have held hearings on issues associated with the Deepwater Horizon oil spill. Several of these hearings dealt with recommendations made by the National Commission on the BP Deepwater Horizon Oil Spill and Offshore Drilling, which issued its final report in January 2011. Members have introduced at least 25 proposals that would address various issues. Some of the bills are similar (if not identical) to proposals from the 111th Congress. Other bills reflect recommendations by the commission.

Activity in the 111th Congress

During and shortly after the heightened spill response operations, Senate and House committees in the 111th Congress held more than 60 hearings on a variety of issues. Members introduced more than 150 legislative proposals related to oil spill matters. The 111th Congress enacted three of these proposals into law (P.L. 111-191, P.L. 111-212, and P.L. 111-281). Provisions in these laws generally concerned short-term matters that will not have a lasting impact on oil spill governance. However, H.R. 3619, the Coast Guard Authorization Act for Fiscal Years 2010 and 2011, which the President signed October 15, 2010 (P.L. 111-281), includes more substantial changes. In addition to the enacted legislation, the House in the 111th Congress passed several bills, including H.R. 3534 (the Consolidated Land, Energy, and Aquatic Resources Act, or CLEAR Act) that included multiple oil spill provisions. The Senate had comparable bills on its legislative calendar, but did not vote on their passage.
Some argue that, in response to the Deepwater Horizon incident, the Administration has adopted less than optimal policies toward offshore oil exploration and development. Thus, some Members have offered proposals that seek to spur offshore oil exploration and development. In recent days, the House passed three such bills: H.R. 1230 (May 5, 2011), H.R. 1229 (May 11, 2011), and H.R. 1231 (May 12, 2011).

**Executive Branch Actions**

Pursuant to the framework of the National Contingency Plan (discussed below), the Administration’s response involves multiple agencies. As this spill occurred in the coastal zone, an on-scene coordinator (OSC) from the U.S. Coast Guard directs and coordinates the on-site activities of federal, state, local, and private entities (e.g., BP). This framework of multiple parties working together under the leadership of the federal government is referred to as the Unified Command.

The Department of Homeland Security (DHS) Secretary, Janet Napolitano, coordinates federal efforts and chairs the National Response Team, an organization of 16 federal departments and agencies. Upon classifying the event as a spill of national significance (SONS), Secretary Napolitano appointed retired Coast Guard Admiral Thad Allen as National Incident Commander, a role that dissolved in October 2010.

Secretary of the Interior Ken Salazar deployed Deputy Secretary David J. Hayes as the Department’s liaison to the Gulf for response efforts. As discussed below, in a related initiative, Secretary Salazar issued an administrative order to restructure the Bureau of Ocean Energy Management, Regulation, and Enforcement (BOEMRE)—formerly known as the Minerals Management Service (MMS) and hereinafter referred to as BOEMRE.

In addition to various regulatory actions within BOEMRE, the Department of Justice (DOJ) initiated a civil proceeding on December 15, 2010, against BP and other defendants. Among other things, the civil action seeks penalties pursuant to the Clean Water Act (33 U.S.C. 1321). Due to uncertainty regarding several factors, including the spill’s estimated volume, any possible penalties remain a matter of conjecture.

**Responsible Party Actions**

As an identified responsible party (others may also be legally responsible), BP is liable for cleanup costs, natural resource damages, and various economic damages. As a member of the Unified Command, BP has played a key role in response actions. Although efforts by BP to stop the uncontrolled oil flow from the well included a series of failed engineering and re-engineering methods, BP contained the well on July 15, 2010. In addition, BP has worked at the direction of the Coast Guard to mitigate the oil spill and its impacts.

The total costs of the 2010 Gulf spill are projected to dwarf those of the Exxon Valdez. In its 2010 financial statement, BP estimated the combined oil spill costs—cleanup, natural resource and economic damages, potential Clean Water Act (CWA) penalties, and other obligations—will be approximately $41 billion. This estimate includes payments made to date as well as projected future payments, such as claims. However, BP acknowledges the difficulty in estimating some costs and does not include these costs in its projection. Therefore, this estimate is subject to considerable uncertainty.
Issues Raised by the Gulf Spill

This section briefly highlights some of the issues raised in response to the Deepwater Horizon oil spill, many of which were not resolved during the 111th Congress. Issues raised by the spill include scrutiny of the regulatory regime for outer continental shelf (OCS) exploration and development activities; concerns about liability and compensation; the technological challenge of some deepwater activity; and other matters related to response activities.

Statutory and Regulatory Framework

During the height of the spill response, some observers raised concerns about who was in charge and under what statutory authority decisions were made. The Oil Pollution Act (OPA) and the Clean Water Act (CWA) are the primary federal statutes governing the federal response to oil spills. These laws provide the President with broad authority to direct or monitor all federal, state, local, and private activities in response to an oil spill.

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) contains the federal government’s regulatory and operative requirements for responding to an oil spill (or hazardous substance release) into or on navigable waters and other specified locations. First developed through administrative processes in 1968, the NCP has been amended by subsequent laws, including the CWA and the OPA in 1990. Oil spill response actions required under the regulations of the NCP are binding and enforceable, per these enforcement authorities.

Stakeholders raised various issues during response operations, including (1) the relationship between the federal government and the responsible party and (2) confusion regarding the role of state and local governments during oil spill responses.

In the aftermath of the Gulf spill, the regulatory framework for outer continental shelf (OCS) activities continues to be subject to heightened scrutiny. OCS activities are primarily regulated by BOEMRE/MMS and the U.S. Coast Guard. The Coast Guard generally oversees the systems and worker safety at the platform (or surface) level of mobile offshore drilling units (MODUs) such as the Deepwater Horizon. The sub-platform (i.e., underwater or sea floor) drilling systems are within the jurisdiction of BOEMRE.

Prior to the 2010 Gulf spill, Members of Congress had focused on addressing a range of potential concerns at BOEMRE/MMS, including mismanagement, ethical shortcomings, mission conflicts, and, in some instances, agency capture by its regulated industry. These concerns have increased since the Gulf incident. To address them, on May 19, 2010, Interior Secretary Salazar issued an administrative order dividing MMS into three new offices, to separate three of the agency’s functions: enforcement, energy development, and revenue collection. The Secretary issued the MMS name change one month after the reorganization order.

Prevention and Containment Technology for Deepwater Oil Spills

After observing recent operations in the Gulf, many have questioned the ability of industry and the federal government to prevent or respond to a significant blowout at substantial water depths. Although a blowout preventer (BOP) is designed as the last line of defense, and is built to include multiple backup mechanisms to stop an uncontrolled release, the Gulf incident demonstrated that
BOPs are not failsafe. The Gulf response highlighted the technological challenges involved with containing an oil release 5,000 feet below the ocean surface. At these depths, equipment must be controlled by operators thousands of feet above and be able to withstand high pressures and low temperatures, which pose multiple engineering challenges. For example, when BP first attempted to intercept the oil and gas and divert it to the surface, solid methane hydrates formed and clogged the equipment intended to divert oil to the surface.

**Relief Wells**

The Administration and some Members of Congress expressed interest in establishing a policy for relief wells. A relief well is drilled to intersect a well that has suffered a blowout and its construction is similar to an exploratory well. As the Gulf incident has demonstrated, deep relief wells can take months to reach their target. Drilling a relief well concurrently with drilling an exploration or development well would likely shorten the time between a blowout and when a leak is plugged. However, requiring a concurrent relief well is not a risk-free proposal: a possibility would exist for a blowout from the relief well itself; and a concurrent well would significantly increase costs and affect project schedules.

**Dispersants**

Dispersants are chemical agents that enhance the breakup of oil into small oil droplets that mix with the water column. Federal responders have allowed for the use of approximately 1.8 million gallons of dispersants in the Gulf. While dispersants have proven effective in breaking up the oil on the surface, questions remain about the fate of the dispersed oil and the chemical dispersants and their short- and long-term environmental impacts.

**Liability and Compensation Framework**

The Gulf spill placed a spotlight on the liability and compensation framework established by OPA in 1990. With some exceptions (whose applicability in the Deepwater Horizon incident has not been determined), the liability of a party responsible for an oil spill is limited. For example, the lease or permit holder of an offshore facility (e.g., BP) is liable for all removal (i.e., cleanup) costs, but liability for other damages/costs is capped at $75 million. If a party’s liability limit is met (and the party denies claims above its limit), claims for compensation may be awarded up to a per-incident cap of $1 billion through the Oil Spill Liability Trust Fund, which is managed by the Coast Guard.

BP has awarded claims exceeding its (conditional) liability limit. The Obama Administration and BP jointly announced on June 16, 2010, the creation of the Gulf Coast Claims Facility (GCCF), an independent claims facility administered by Kenneth Feinberg, to process claims for individuals and businesses. BP continues to finance the GCCF with incremental payments, which will eventually total $20 billion. Although the GCCF has awarded over $4 billion (as of May 2, 2011), it has received considerable attention, with some raising questions about its effectiveness in compensating injured parties.
Factors Influencing Future Congressional Action

Several factors may influence future congressional action regarding the 2010 Gulf incident. These are discussed below.

Conditions in the Gulf

The perceived state of conditions in the Gulf will likely be as influential as the actual conditions, which may be difficult to conclusively assess and which will change over time. Extensive data were collected during the spill. Peer review reports (which are generally published many months after data collection) and other assessments of these data may spur legislative activity, depending on the conclusions drawn in and from these reports.

On November 23, 2010, the federal government released a peer-reviewed publication that provided an oil budget estimate (i.e., an estimate of what happened to the oil). At the time of these calculations, a substantial portion of the oil had been effectively removed from the Gulf environment through human interaction. However, a greater portion remained, in some form, in the Gulf. It is unknown what then happened to the oil that remained in the Gulf.

It is debatable whether the fate of the remaining oil will ever be established conclusively. Multiple challenges hinder this objective, and as time progresses, determining the fate of the oil will likely become more difficult. Researchers are continuing to study various components of the Gulf. Some of these efforts may provide clues to the oil’s fate.

A related issue is how one defines the scope of the oil spill cleanup and restoration. For example, should the objective be to return the Gulf to pre-spill conditions or to attempt a more comprehensive restoration of the region? These different perspectives may influence policymakers.

Independent Inquiries

Several investigations and commissions—both federal and private—have been initiated to examine issues surrounding the Deepwater Horizon incident. For example, the National Commission on the BP Deepwater Horizon Oil Spill and Offshore Drilling was established by the President on May 22, 2010, to investigate root causes of the accident and to provide recommendations. The commission submitted its final report to the President on January 12, 2011. Findings and recommendations from this body and others may influence future congressional action.

In addition, BOEMRE and the U.S. Coast Guard convened a Joint Investigation with the purpose to develop conclusions and recommendations as they relate to the Deepwater Horizon incident. The final report is scheduled for July 27, 2011.

Judicial Activity

Measures taken by the government and the private sector after a major accident sometimes involve the judicial system. The outcome of judicial proceedings can influence the actions of the
executive branch or of Congress. There are several active judicial proceedings in federal and state
courts related to oil and gas activity in the Gulf region; some of these deal with the Deepwater
Horizon incident and its direct and indirect impacts. It is unclear how this judicial activity may
affect federal OCS permitting, oil spill damage assessments and other matters related to oversight
of oil and natural gas leasing in the Gulf of Mexico.

One example of a judicial proceeding that may influence policymakers is a U.S. Department of
Justice (DOJ) civil proceeding initiated on December 15, 2010, against BP and other defendants
related to the Deepwater Horizon incident. In this matter DOJ charges BP and others with
violations related to federal safety and operation requirements at the Deepwater Horizon drilling
site. DOJ seeks to recover removal costs, economic costs, environmental damages and civil
penalties pursuant to both Oil Pollution Act and the Clean Water Act.

Further Research1

An accident or natural disaster of national interest poses immediate demands for research, data,
and statistics. In the case of the Deepwater Horizon incident, data on deepwater activities and
vicinities are generally not viewed as robust, and some question the adequacy and objectivity of
data immediately available for congressional hearings and other deliberations. Most observers
anticipate that further research on these matters will be a useful tool for policymakers. The
availability of data about federally regulated offshore activities, particularly in deepwater areas,
seems to be a factor that would influence future congressional action.

CRS Reports for Further Reading

CRS Report R41262, Deepwater Horizon Oil Spill: Selected Issues for Congress, coordinated by
Curry L. Hagerty and Jonathan L. Ramseur.

CRS Report R41679, Liability and Compensation Issues Raised by the 2010 Gulf Oil Spill, by
Jonathan L. Ramseur.

CRS Report RL33705, Oil Spills in U.S. Coastal Waters: Background and Governance, by
Jonathan L. Ramseur.

CRS Report R41531, Deepwater Horizon Oil Spill: The Fate of the Oil, by Jonathan L. Ramseur.


CRS Report R41485, Reorganization of the Minerals Management Service in the Aftermath of the
Deepwater Horizon Oil Spill, by Henry B. Hogue.

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1 Authors acknowledge the assistance of CRS Knowledge Services Group on topics related to data availability, data
integrity, and other aspects of the scope of authoritative resources for Deepwater Horizon topics.


CRS Report R41370, *Federal Civil and Criminal Penalties Possibly Applicable to Parties Responsible for the Gulf of Mexico Oil Spill*, by Robert Meltz.

CRS Report R41320, *Deepwater Horizon Oil Spill Disaster: Risk, Recovery, and Insurance Implications*, by Rawle O. King.


CRS Report RS22022, *Disaster Unemployment Assistance (DUA)*, by Julie M. Whittaker and Alison M. Shelton.


CRS Report R41132, *Outer Continental Shelf Moratoria on Oil and Gas Development*, by Curry L. Hagerty.


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