

United States Government Accountability Office Washington, DC 20548

August 22, 2008

Congressional Committees

Subject: Chemical Safety Board: Improvements in Management and Oversight Are Needed

The principal role of the Chemical Safety and Hazard Investigation Board (CSB) is to investigate accidental releases of regulated or extremely hazardous substances to determine the conditions and circumstances that led to the accident and to identify the cause or causes so that similar accidents might be prevented.¹ Accidental releases of these toxic and hazardous chemicals occur frequently and often have serious consequences. CSB reported to Congress that the agency received notification of approximately 900 chemical accidents in calendar year 2007, and that 31 of these accidents were serious or even fatal events that warranted the commitment of CSB investigators.

CSB began operating in 1998 as an independent agency created under the Clean Air Act Amendments of 1990. The act directs CSB to (1) investigate and report on the cause or probable cause of any accidental chemical releases from stationary sources resulting in a fatality, serious injury, or substantial property damages; (2) make recommendations to reduce the likelihood or consequences of accidental chemical releases and propose corrective measures; and (3) establish regulations for reporting accidental releases. The agency publishes investigative reports and issues safety studies and videos to help prevent future accidents. Congress modeled CSB after the National Transportation Safety Board (NTSB), which has a similar public safety mission.² Like NTSB, CSB has no enforcement authority and a limited regulatory role. As outlined in the authorizing statute, CSB is to be managed by a five-member board. Currently the board has one vacancy. CSB received an appropriation of \$9.4 million for fiscal year 2008 and had 39 staff as of January 30, 2008.

¹S. Rpt. No. 101-228, 1990 U.S.C.C.A.N. 3385, 3615 (1989).

²NTSB is required by statute to investigate every civil aviation accident in the United States and certain railroad, pipeline, and marine accidents and issue safety recommendations aimed at preventing future accidents.

In 2000, Congress asked GAO to review CSB's effectiveness in carrying out its mission. In our report, Chemical Safety Board: Improved Policies and Additional Oversight Are Needed (GAO/RCED-00-192),³ we cited problems with CSB's governance, management, policies, and procedures. Among other things, we recommended that CSB obtain the services of an existing office of inspector general (IG). Since fiscal year 2001, three IGs—from the Federal Emergency Management Agency (FEMA), the Department of Homeland Security (DHS), and the Environmental Protection Agency (EPA)—have provided oversight to CSB. EPA's IG currently provides oversight. Together, over time, these IGs have made 32 recommendations to address problems in management accountability and control, human capital management, compliance with its statutory requirements, and other issues.

In response to a mandate in the Joint Explanatory Statement that accompanied the fiscal year 2008 Consolidated Appropriations Act,⁴ we examined (1) how CSB has responded to GAO and IG recommendations regarding CSB's investigative gap, data quality problems, human capital problems, and accountability and management problems for meeting its mission requirements and (2) the merits of the current oversight approach using an existing office of inspector general and other alternative approaches to oversight. On April 17, 2008, we briefed staff from the House and Senate Appropriation Subcommittees on Interior, Environment, and Related Agencies and on May 20, 2008, we briefed the Chairman of the House subcommittee. This letter summarizes the main points from our presentation. See enclosure II for a copy of the briefing slides from that presentation.

To perform our review, we reviewed relevant documentation and data and interviewed CSB and other agency officials. We conducted this performance audit from October 2007 to May 2008 in accordance with generally accepted government auditing standards. Those standards require that we plan and perform the audit to obtain sufficient, appropriate evidence to provide a reasonable basis for our findings and conclusions based on our audit objectives. We believe that the evidence obtained provides a reasonable basis for our findings and conclusions based on our

³GAO, *Chemical Safety Board: Improved Policies and Additional Oversight Are Needed*, GAO/RCED-00-192 (Washington, D.C.: July 11, 2000).

 $^{^4}$ Joint Explanatory Statement to Accompany the Consolidated Appropriations Amendment, Division F, at 60.

audit objectives. We determined that the agency's accident-screening database is sufficiently reliable for the purpose of making broad estimates of the total number of accidents and accidents with fatalities. Among the data's limitations is the lack of quality controls to ensure that data are accurate and complete, especially with respect to fatalities. For additional information on our scope and methodology, see enclosure I.

Summary of Findings

CSB has implemented some GAO and IG recommendations related to improving its operating policies and procedures since we last reported in July 2000. However, we found that CSB has not fully addressed several critical recommendations, and problems in governance, management, and oversight persist. Specifically, CSB has not fully responded to key recommendations related to investigating more accidents that meet statutory requirements triggering CSB's responsibility to investigate, improving the quality of its accident data, resolving human capital problems, and ensuring accountability and continuity of management.

• In our view, independent oversight from an existing IG remains the most effective way to help CSB address its continuing problems, provided that the arrangement is made permanent and funding is provided to the IG for the function.

We are making recommendations to the Chairman of CSB to address continuing problems with governance and management. We are also proposing matters for congressional consideration to address continuing problems with oversight. Regarding the six recommendations, CSB generally concurred with four and disagreed with two. CSB also disagreed with both matters for congressional consideration. CSB did not generally concur with our recommendation to develop a plan to address the investigative gap and request the necessary resources from Congress to meet its statutory mandate but stated that it would work with Congress to clarify the issue of its statutory mandate and, if appropriate, seek an amendment to CSB's authorizing statute. We believe that CSB's willingness to work with Congress to clarify the issue of its statutory mandate, and if appropriate, seek an amendment to CSB's authorizing statute is a step in the right direction. However, CSB does not agree that it must currently investigate all chemical accidents that meet statutory requirements triggering CSB's responsibility to investigate. In this regard, CSB said it has "not construed the agency's authorizing statute as requiring investigation of every chemical accident involving a fatality, serious injury, or substantial property damage, or the potential for such consequences." We continue to believe the current law is clear; investigations are required for all accidental releases that result, or have the potential to result, in a

fatality, serious injury, or substantial property damage. CSB is currently investigating far fewer accidents than is required by law and a plan to address the investigative gap is still necessary.

CSB also disagreed with our recommendation to publish a regulation to require facilities to report information on chemical accidents. We are encouraged that CSB plans to publish in the Federal Register a Request for Information (RFI) concerning a reporting regulation to obtain the views and opinions of CSB's stakeholders. We recognize that this step could provide valuable information regarding the preparation of a reporting regulation. However, the request for information does not in itself provide assurance that CSB will follow through and issue a regulation as required by CSB's authorizing statute. In this regard, CSB said that "a reporting regulation is not needed for the narrow purpose of notifying the CSB of major accidents warranting the deployment of investigators, which appears to be the sole purpose of CSB's authority to issue a reporting rule." We disagree with CSB's view that a reporting regulation is not needed. CSB is legally required to promulgate a regulation. Furthermore, such a regulation would allow CSB to obtain more accurate, complete information to meet its statutory mandate.

In addition, CSB disagreed with our matter for congressional consideration to consider amending CSB's authorizing statute or the Inspector General (IG) Act of 1978 to permanently give EPA's Inspector General the authority to serve as the oversight body for the agency. CSB questioned the independence of the EPA IG, since CSB issues recommendations to EPA. We understand CSB's concerns; however, the IG Act requires inspectors general to be independent from the agencies they audit and investigate, and using the EPA IG does not pose a risk to CSB's independent evaluation of chemical accidents.⁵ Finally, CSB disagreed with our matter for congressional consideration to provide the EPA IG with appropriations and staff allocations specifically for the audit of CSB via a direct line in the EPA appropriation. CSB said GAO did not adequately consider different oversight options for CSB and that oversight should be tailored to the size of the agency. We believe that all significant federal programs and entities should be subject to oversight by IGs who can provide sound independent audits of all significant federal operations and activities. The EPA IG has expertise involving the chemical management issues that the Board is charged with investigating, has

⁵Pub. L. No. 95-452, 92 Stat. 1101 (codified as amended at 5 U.S.C. App. 3).

	gained knowledge of CSB's operations and activities in providing the Board with oversight over the past several years, and, like other IGs, has the requisite independence provided by the IG Act of 1978 necessary for reviewing and making recommendations to address long-standing problems in the Board's management performance. Given the management problems that our audit revealed, the need for independent IG oversight at CSB is especially pressing.
CSB Has Not Fully Addressed Key Recommendations, and Problems Persist	CSB has not fully responded to recommendations related to its investigative gap, data quality, human capital, and management problems, and we found these problems continue.
The Investigative Gap Persists	CSB has not fully responded to recommendations to address its investigative gap—the difference between the number of accidents it investigates and the accidents that meet statutory criteria triggering CSB's responsibility to investigate—and this gap persists. Using fiscal year 2002 data, the DHS IG reported in fiscal year 2004 that CSB deployed to 4 of 294 accidents that met statutory criteria for investigation. Moreover, while acknowledging that CSB lacked the resources to investigate all 294 accidents, the IG reported that CSB did not have a plan for reporting to Congress on the number and type of accidents it was not able to investigate, nor did it have a plan for narrowing the investigative gap. Consequently, the IG recommended that CSB develop a plan to describe and address the investigative gap and include the information in future budget submissions to Congress and the Office of Management and Budget (OMB). In response, CSB prepared a onetime report to Congress in 2006. CSB officials told us they did not repeat this report because congressional staff did not request subsequent annual reports with this level of detail. Rather, it included less detailed information in subsequent budget justifications to Congress.
	In fiscal year 2007, we found that CSB received notifications of 920 chemical accidents; approximately 35 of these accidents included at least one fatality, and CSB investigated 1 of these. By not investigating all accidental releases that have a fatality, serious injury, substantial property damage, or the potential for a fatality, serious injury, or substantial property damage, CSB continues to fall short of its statutory mandate. CSB officials said the agency lacks the resources to investigate more than a

	small percentage of the accidents that meet statutory criteria triggering the board's responsibility to investigate. Moreover, CSB has not developed a long-term plan for reporting to Congress on the scope and magnitude of its investigative gap or a detailed strategy to address it. As a result, Congress does not have accurate or comprehensive information about CSB's investigative gap or the resources it would need to close it. When we compared CSB and NTSB data from 2006, we found that while NTSB's budget is approximately 8 times CSB's budget, NTSB investigates 250 times as many accidents. Unlike CSB, NTSB conducts limited, office-based investigations that rely on the work of other entities. NTSB uses its statutory authority to solicit other entities' work when resources, or other considerations, prevent it from deploying investigators to the accident site, a fact that may help it better leverage its resources. For example, NTSB uses the work of local officials, rescue response units, Federal Aviation Administration (FAA) personnel, and other persons and organizations that might have knowledge of the accident. While CSB has similar statutory authority to use information gathered by others, the agency terminated its limited, office-based review program was less resource intensive than full investigations, CSB officials said that they terminated the limited reviews because relying on the work of other agencies conflicted with CSB's independence. In 2006, we reported that NTSB's use of others' work may present some challenges, but appears to be working well. ⁶ Moreover, CSB has memorandums of understanding with both Occupational Safety and Health Administration (OSHA) and EPA that state that CSB may use information gathered by OSHA and EPA to aid in its investigation of accidents.
Data Quality Problems Continue	CSB has not fully responded to IG recommendations to publish a data- reporting regulation and improve the quality of its accident data. As a result, data quality problems continue. In 2004, the DHS IG recommended that CSB fulfill its statutory requirement to publish a regulation for receiving information from facilities on their chemical accidents, and that CSB develop a long-term strategy to improve the quality of its data. Since that time, CSB has not issued the regulation, and officials said they have

⁶GAO, National Transportation Safety Board: Progress Made, Management Practices, Investigation Priorities, and Training Center Use Should Be Improved, GAO-07-118 (Washington, D.C.: Nov., 22, 2006).

	no plans to do so; instead CSB relies primarily on the media, such as online newspapers and television, to learn about chemical accidents. In addition, the DHS IG reported that CSB did not have adequate controls over the quality of data in the accident-screening database it uses to report to Congress and the public on the number of chemical accidents the agency screens and selects for investigation. The IG reported that CSB needed to monitor its data for completeness, accuracy, timeliness, and usefulness.
	We found that CSB lacks a long-term strategy to improve quality controls, and the data remain somewhat inaccurate and incomplete. For example, when we analyzed a subset of accidents in the database involving fatalities and injuries, we found at least five accidents (about 6 percent of the cases reviewed) where fatalities were not correctly recorded in the database. We also found seven accidents (about 4 percent of the cases reviewed) where data on injuries were missing as a result of incomplete data entry. Moreover, CSB does not have procedures to ensure that data has been entered accurately. The lack of data-reporting regulations and these data quality problems limit CSB's ability to target its resources, identify trends and patterns in chemical accidents, and prevent future similar accidents.
Human Capital Problems Persist	CSB has not fully responded to recommendations to resolve its human capital problems. In 2002, the FEMA IG found that CSB had a shortfall of investigators and had not made hiring them a priority. In addition, it found that CSB lacked a central human capital manager, comprehensive strategic human capital plan, and performance measures and criteria. The FEMA IG recommended that CSB make hiring investigators a top priority and made several recommendations to strengthen its human capital planning and management.
	In response, CSB consolidated human capital responsibilities under a full- time human resources manager, developed several agencywide goals to improve human capital, and hired more investigators; however, we found that CSB's human capital strategy was not comprehensive, lacked a detailed action plan for closing the investigator shortfall, did not include input from staff investigators, and lacked performance measures—actions included in the Strategic Management of Human Capital portion of the President's Management Agenda.
	CSB officials told us they have difficulties attracting and retaining investigators. We found that more employees left CSB in fiscal years 2006 and 2007 than were hired. In fiscal years 2006 and 2007, three of five

investigators who left were senior investigators with 5 to 7 years of experience. Yet CSB hired mostly interns during the same 2 fiscal years. CSB hired these interns through the Federal Career Intern program, which is designed to attract and retain employees for federal service. However, some officials we interviewed, including a board member, investigation managers, and investigators, told us intern investigators are encouraged to leave CSB to gain experience in private industry or to pursue graduate degrees. In addition, CSB officials said they offered retention bonuses to high-performing mid- and senior-level investigators before they left the agency. However, the investigators declined the bonuses because these individuals said they received significantly higher compensation from the private sector. In addition, CSB officials said they did not offer retention bonuses to resigning intern investigators because they did not think it would make a difference since these individuals would be earning more in their new jobs. We found that the agency has not paid a retention bonus to any employee since September 2002. Moreover, we found that in fiscal year 2006, CSB reprogrammed compensation funds of \$627,891 to other priorities, including producing safety videos and redesigning its Web site, and that in fiscal year 2007, CSB reprogrammed compensation funds of \$407,383 to similar purchases.
CSB has not fully responded to recommendations to delegate the authority

Accountability and Management Problems Continue

CSB has not fully responded to recommendations to delegate the authority to effectively manage the day-to-day administrative functions to a permanent chief operating officer (COO). In March 2002, the FEMA IG cited fractured management, a weakened chain of command, and board member intervention in routine administration and recommended that the board delegate day-to-day administrative functions to a permanent COO to ensure continuity of management and accountability. In response to the FEMA IG's recommendation, CSB hired a COO in 2002 to effectively manage the day-to-day operations of CSB, but the individual left in 2004. The board subsequently eliminated the position and transferred the COO's responsibilities to individual program managers and the board.

We found that CSB lacks a permanent senior executive to establish performance goals, hold program mangers accountable for meeting those goals, and demonstrate improvement in the agency's ability to meet its statutory mandate over time. Without a COO, the agency may be unable to ensure continuity of performance and accountability when board members and chairs leave the agency.

CSB board members said that a similar executive director position might reduce the administrative responsibilities of the board; however, in

	comments to GAO, CSB did not support filling a COO or similar position at this time because a COO is not likely to provide any additional management skills not already represented at the agency. The investigation managers and investigators we interviewed generally expressed support for reinstating the COO position to improve the continuity of administrative management.
Inspector General Oversight Is Still Warranted	On the basis of our review of CSB's history and current operations; we believe that the independent institutional audit presence of an IG remains the best option for ensuring that CSB is accountable to Congress for meeting its statutory requirements. We reconsidered the three options for oversight we suggested in 2000, which include (1) establishing an in-house audit and investigations unit, (2) contracting out for evaluations of its operations and programs, and (3) obtaining the services of an existing office of inspector general. We determined that the first two options are not appropriate for the board for several reasons. The first option—an in- house audit unit—is not practical because CSB's history of management problems warrants a level of independent oversight that may be difficult to achieve by an internal audit function. In addition, the limited staffing that would reasonably be allocated to this function at an agency of this size would lack the varied expertise needed to address these problems. The second option—contracting out for evaluations—is not appropriate because of the limitations of contracting in terms of both audit independence and the potentially limited duration of the contracting relationship. CSB officials told us they prefer the second option because they believe CSB's small size does not justify independent institutional IG oversight. In addition, CSB officials said that CSB is classified as one of 54 federal entities defined in the IG Act of 1978 for which the act did not provide an IG, but rather required annual reporting of their audit and investigative activities to Congress and the Office of Management and Budget. However, in our view, the CSB's long-standing, serious, and intractable management problems make it unlikely that the reporting requirements for federal entities will ensure that the CSB has an appropriate level of oversight to address its management problems. Given these factors, in our view IG oversight remains the most appropriate oversight option for CSB. Nonethele
	limited evaluation recourses to other priority issues within FDA However

limited evaluation resources to other priority issues within EPA. However,

we do not believe, as CSB asserts, that the EPA IG's assignment and work call into question CSB's intended independence from EPA. According to CSB, CSB independently evaluates and reports to Congress on EPA programs in chemical accident prevention, and CSB's independence from EPA was deliberate and carefully considered. By statute, inspectors general are independent from the agencies they audit and investigate so the EPA IG must maintain his or her independence from EPA officials and program employees. With such independence, the IG poses no risk to CSB's independent evaluations of chemical accidents.

Conclusions

After 10 years of operation, CSB continues to operate in noncompliance with its statutory mandates. CSB stresses that it recognizes the importance of its investigations to identify root causes of accidental releases and recommend regulatory action to prevent such accidental releases, but it is not investigating all chemical releases that have a fatality, serious injury, substantial property damage, or the potential for a fatality, serious injury, or substantial property damage.

Given the resource constraints on the board that limit its ability to investigate all chemical accidents resulting in fatalities, serious injuries, or substantial property damage, it is particularly important that CSB better leverage its existing resources by using other entities' work, have the best available data on which to make decisions on those accidents that are most important to investigate, and use all available human capital tools to retain staff. Even though CSB has a statutory requirement to issue a regulation requiring facilities to report their chemical releases, the board has resisted requiring such reporting, preferring to rely on alternative information sources, such as major news organizations. Requiring facilities to report certain information on accidental releases would provide CSB with better data than it currently receives from media sources.

The difficulties that CSB has experienced are largely the result of inadequate management accountability for addressing long-standing problems and for clearly identifying and attempting to meet CSB's staff requirements to perform investigations of chemical accidents. While we recognize that CSB may not have sufficient resources to investigate every accident within its purview, as NTSB reports it does, we believe CSB is missing opportunities to investigate more accidents and possibly prevent fatalities, serious injuries, and substantial property damage in the future. For example, other federal agencies, such as EPA and OSHA, collect accident information that, to the extent that the information meets CSB's

	data quality standards, could provide additional resources to help the board meet its mission.
Recommendations for Executive Action	 We recommend that the chairman of the Chemical Safety Board develop a plan to address the investigative gap and request the necessary resources from Congress to meet CSB's statutory mandate or seek an amendment to its statutory mandate; consider using the work of other entities, such as government agencies, companies, and contractors (subject to an assessment of the quality of their work), to a greater extent to maximize the board's limited resources; improve the quality of its accident-screening database by better controlling data entry and periodically sampling accident data to evaluate their consistency and completeness; publish a regulation requiring facilities to report all chemical accidents, as required by law, to better inform the agency of important details about accidents that it may not receive from current sources; consider reinstating the position of chief operating officer, with delegations of responsibility for establishing performance goals, holding program mangers accountable for meeting those goals, and demonstrating improvement in the agency's ability to meet it statutory mandates over time; and use the Strategic Management Agenda to provide criteria for developing a comprehensive human capital plan, with input from investigators that includes specific objectives and performance measures to improve accountability for results and to assist the agency in its goal of improving its human capital and infrastructure.
Matters for Congressional Consideration	Congress may wish to consider amending CSB's authorizing statute or the Inspector General Act of 1978 to permanently give EPA's Inspector General the authority to serve as the oversight body for the agency. As Congress prepares the appropriation of the EPA Inspector General, it may wish to consider providing the Inspector General with appropriations and staff allocations specifically for the audit function of CSB via a direct line in the EPA appropriation.

Agency Comments and Our Evaluation	We provided a draft of our report to CSB for its review and comment. We received written comments from CSB's Chairman and Chief Executive Officer (CEO). These comments and our detailed response to them are presented in enclosure III. CSB also provided technical comments, which we have incorporated into the report as appropriate.
	Regarding the six specific recommendations we made in the report, CSB generally concurred with four and disagreed with two. CSB also disagreed with both matters for congressional consideration we identified in the report. CSB generally concurred that it should (1) consider using the work of other entities to maximize the board's limited resources, (2) improve the quality of its accident-screening database, (3) consider reinstating the position of chief operating officer, (4) use the Strategic Management of Human Capital portion of the President's Management Agenda as a guide for developing a comprehensive human capital plan.
	CSB did not generally concur with our recommendation to develop a plan to address the investigative gap and request the necessary resources from Congress to meet its statutory mandate. The agency reports that it will seek additional investigation resources and "will draft a plan for obtaining information on additional chemical accidents occurring in the United States, and clearly set forth a risk-based approach to accident selection and investigation." However, it does not commit to meet CSB's statutory mandate for investigating chemical releases, citing its view that "CSB has not construed the agency's authorizing statute as requiring investigation of every chemical accident involving a fatality, serious injury, or substantial property damage, or the potential for such consequences." CSB has not explained the basis for its interpretation. The 1990 Clean Air Act Amendments establishing the CSB states "[t]he Board shall investigate (or cause to be investigated)any accidental release resulting in a fatality, serious injury or substantial property damage." Further, the act states that "[i]n no event shall the Board forgo an investigation where an accidental release causes a fatality or serious injury among the
	general public, or had [sic] the potential to cause substantial property damage or a number of deaths or injuries among the general public." As noted in our briefing, this language clearly identifies which accidental releases CSB is required to investigate; that is, investigations are required for all accidental releases that result, or have the potential to result, in a fatality, serious injury, or substantial property damage. Although CSB did not agree with this interpretation, the agency stated that it would work with Congress to clarify the issue of its statutory mandate and, if appropriate, seek an amendment to CSB's authorizing statute. We believe that CSB's willingness to work with Congress to clarify its statutory mandate is a step in the right direction. However, we

continue to believe the current law is clear; CSB should meet its current mandate or seek an amendment to its authorizing statute.

CSB disagreed with our matter for congressional consideration to consider amending CSB's authorizing statute or the IG Act of 1978 to permanently give EPA's Inspector General the authority to serve as the oversight body for the agency. CSB said that while the EPA IG is one option for oversight, other offices of inspector general are also available, some of which may be more appropriate for the role. CSB also questioned the independence of the EPA IG, since CSB issues recommendations to EPA program offices. We assessed other options for oversight that we had considered in our 2000 report, as well as options presented to us by CSB. We understand CSB's concerns; however, the IG Act requires inspectors general to be independent from the agencies they audit and investigate. The EPA IG has expertise involving the chemical management issues that the Board is charged with investigating, has gained knowledge of CSB's operations and activities in providing the Board with oversight over the past several years, and, like other IGs, has the requisite independence provided by the IG Act of 1978 necessary for reviewing and making recommendations to address long-standing problems in the Board's management performance. As a result, using the EPA IG does not pose a risk to CSB's independent evaluation of chemical accidents.

CSB also disagreed with our matter for congressional consideration to provide the EPA IG with appropriations and staff allocations specifically for the audit of CSB via a direct line in the EPA appropriation. CSB said GAO did not adequately consider different oversight options for CSB and that oversight should be tailored to the size of the agency. CSB also noted that it currently obtains its financial and information security audits for about \$60,000 a year. We believe that all significant federal programs and entities should be subject to oversight by IGs who can provide sound independent audits of all significant federal operations and activities. Given the management problems that our audit revealed, the need for independent IG oversight at CSB is especially pressing. Further, financial and information security audits are not a substitute for the oversight of program management provided by an independent IG.

We are sending copies of this report to the Chairman and CEO of the Chemical Safety and Hazard Investigation Board, appropriate congressional committees, and other interested parties. We will also make copies available to others upon request. In addition, the report will be available at no charge on the GAO Web site at http://www.gao.gov. If you or your staff have any questions about this report, please contact me at 202-512-3841 or stephensonj@gao.gov. Contact points for our Offices of Congressional Relations and Public Affairs may be found on the last page of this report. Major contributors to this report were Ed Kratzer, Assistant Director; Vanessa Dillard; Brian M. Friedman; Angela Miles; Alison O'Neill; Michael Sagalow; Rebecca Shea; John C. Smith; and Jeanette Soares.

John B XIII

John B. Stephenson Director, Natural Resources and Environment

Enclosures

Congressional Addressees

The Honorable Dianne Feinstein Chairman The Honorable Wayne Allard Ranking Member Subcommittee on Interior, Environment, and Related Agencies Committee on Appropriations United States Senate

The Honorable Norman D. Dicks Chairman The Honorable Todd Tiahrt Ranking Member Subcommittee on Interior, Environment, and Related Agencies Committee on Appropriations House of Representatives

Enclosure I: Scope and Methodology

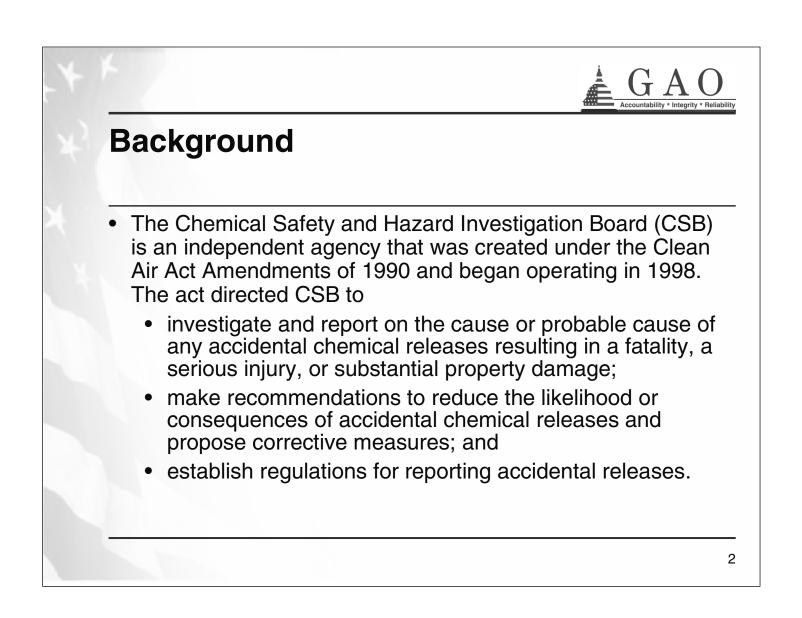
To perform our review, we analyzed authorizing statutes, regulations, legislative history, and GAO and office of inspector general (IG) reports, and other literature. We also reviewed and analyzed the Chemical Safety and Hazard Investigation Board's (CSB) strategic plan, human capital report, policies and procedures, and other program documents, and compared them to similar documents from the National Transportation Safety Board (NTSB). In addition, we reviewed a subset of CSB's accident screening database that included two variables CSB uses to rank the seriousness of an accident—fatalities and injuries and the narratives explaining these accidents. We also consulted GAO's guidance on management best practices, human capital, data reliability, and oversight. In addition, we interviewed officials from CSB, officials from past and current IGs. We also consulted NTSB officials and GAO experts on management, data reliability, human capital, and oversight issues.

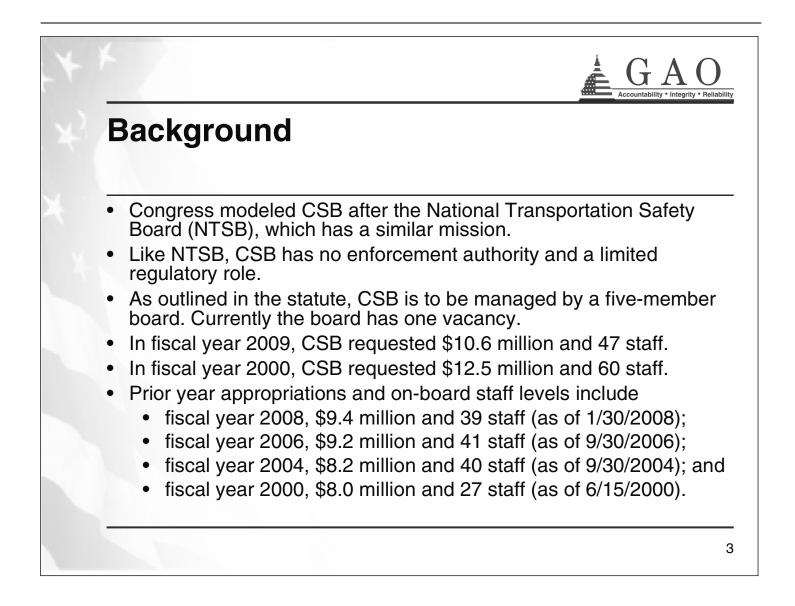
We did not evaluate the quality of CSB's investigative products issued to date, or the quality and effectiveness of its reports, recommendations, and promotion of preventive actions, because these evaluations were outside the scope of our mandate and are not relevant to the findings and conclusions of this engagement. We also did not conduct a detailed evaluation of the oversight arrangements for the other 53 federal entities for comparison with CSB because the continuing management problems found in our audit highlight the need for IG oversight.

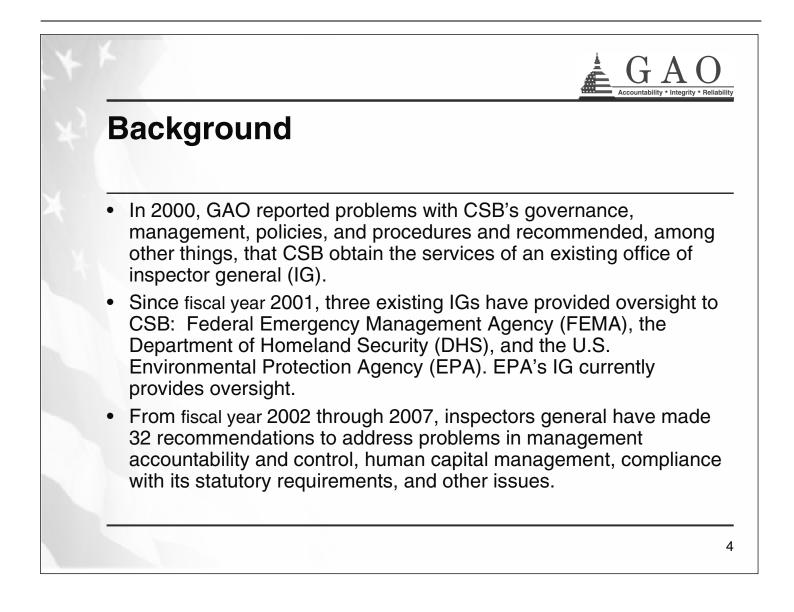
We conducted this performance audit from October 2007 to May 2008 in accordance with generally accepted government auditing standards. Those standards require that we plan and perform the audit to obtain sufficient, appropriate evidence to provide a reasonable basis for our findings and conclusions based on our audit objectives. We believe that the evidence obtained provides a reasonable basis for our findings and conclusions based on our audit objectives. We determined that the agency's accident screening database is sufficiently reliable for the purpose of making broad estimates of the total number of accidents and accidents with fatalities. Among the data's limitations is the lack of quality controls to ensure that data are accurate and complete, especially with respect to fatalities.

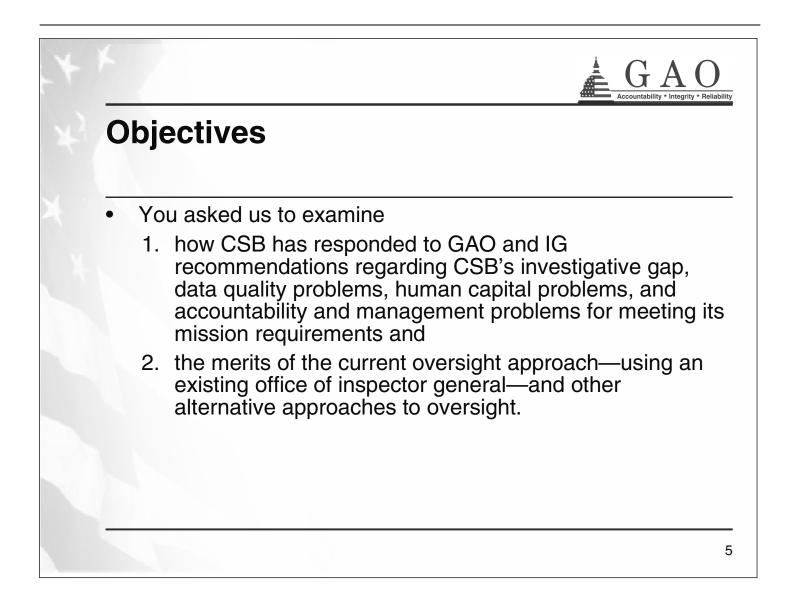
Enclosure II: Slides from April 17, 2008, Briefing to Congressional Staff

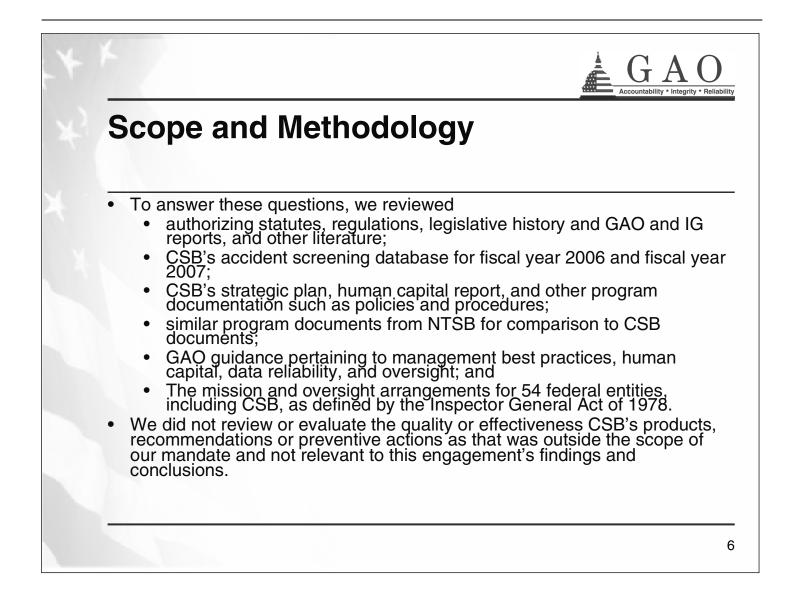


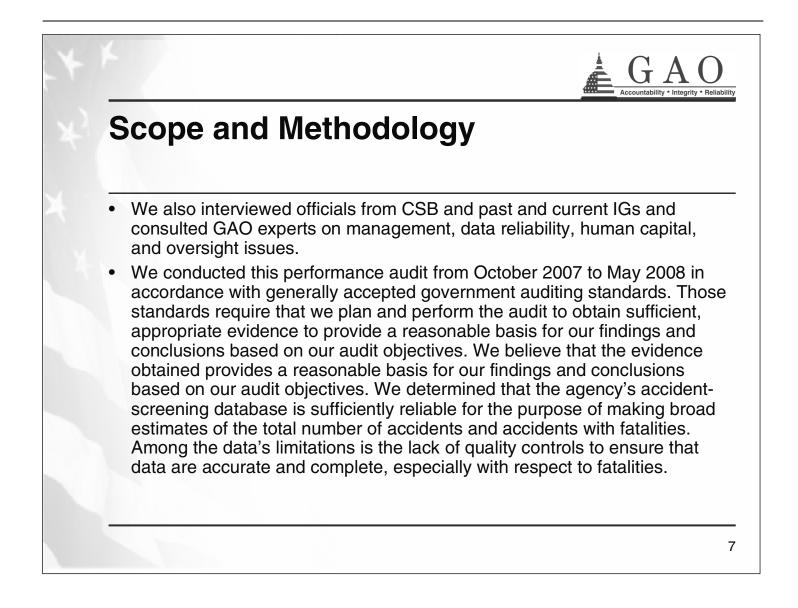


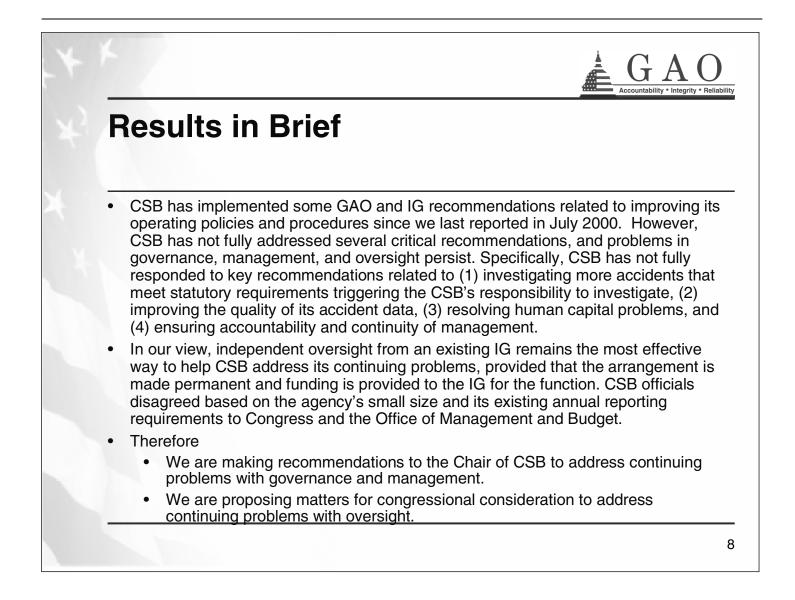


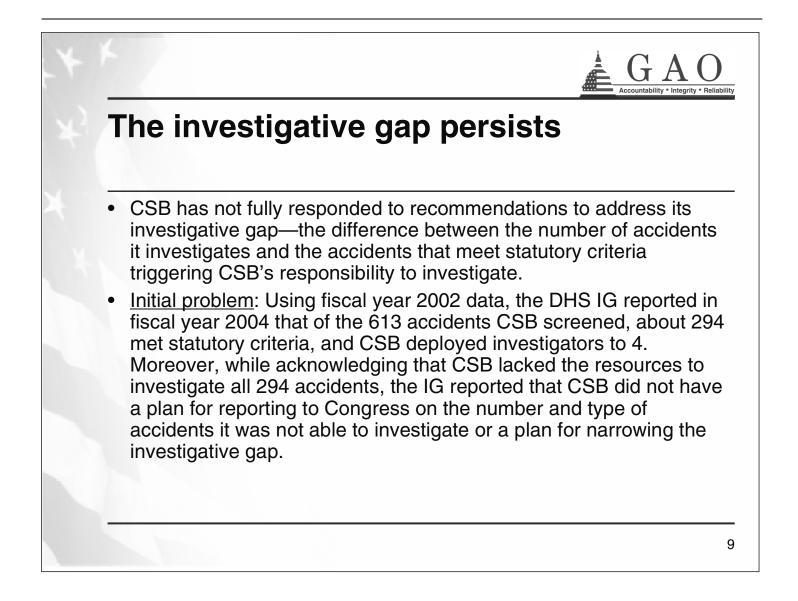


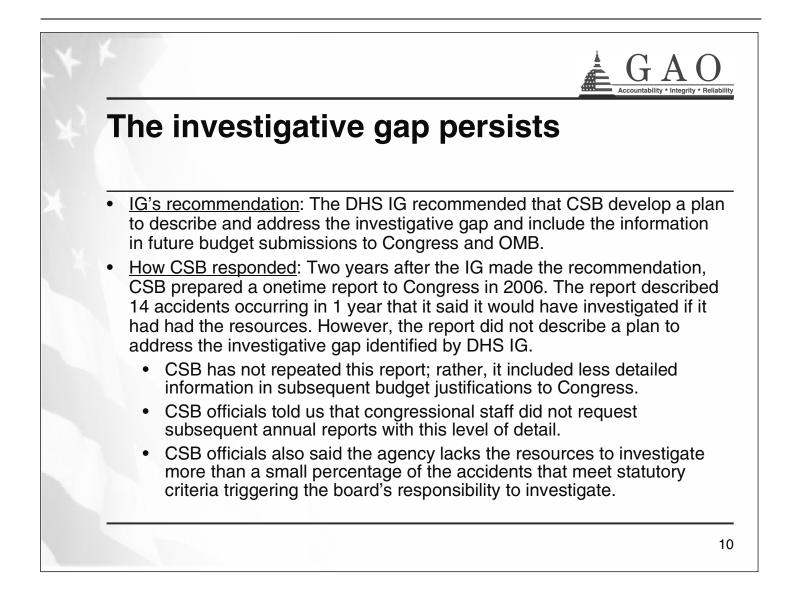


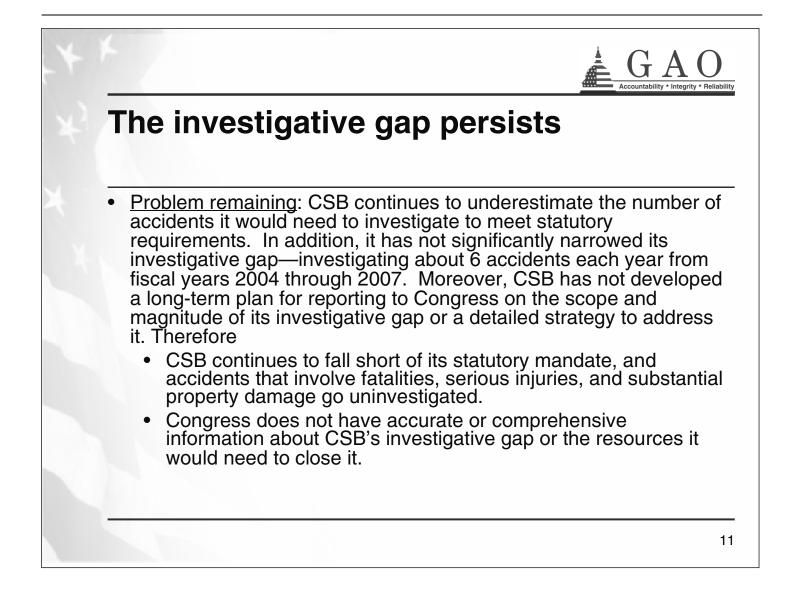


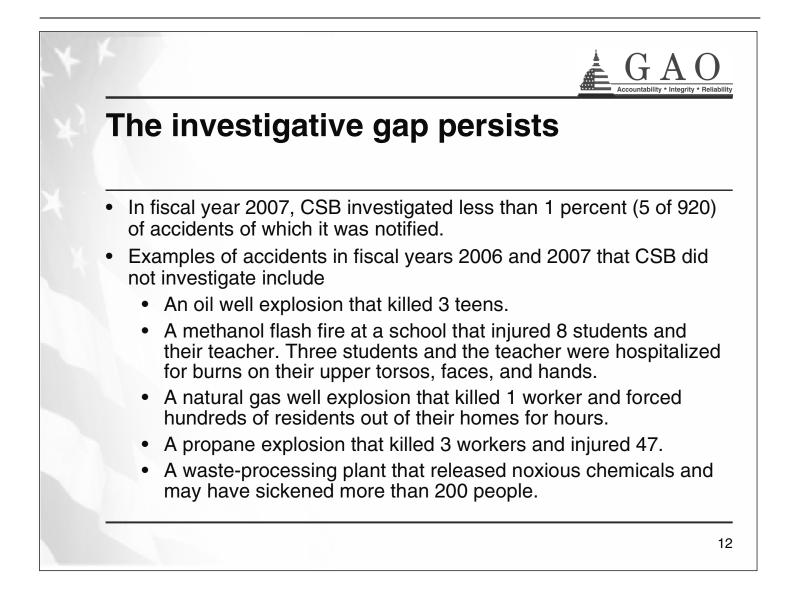




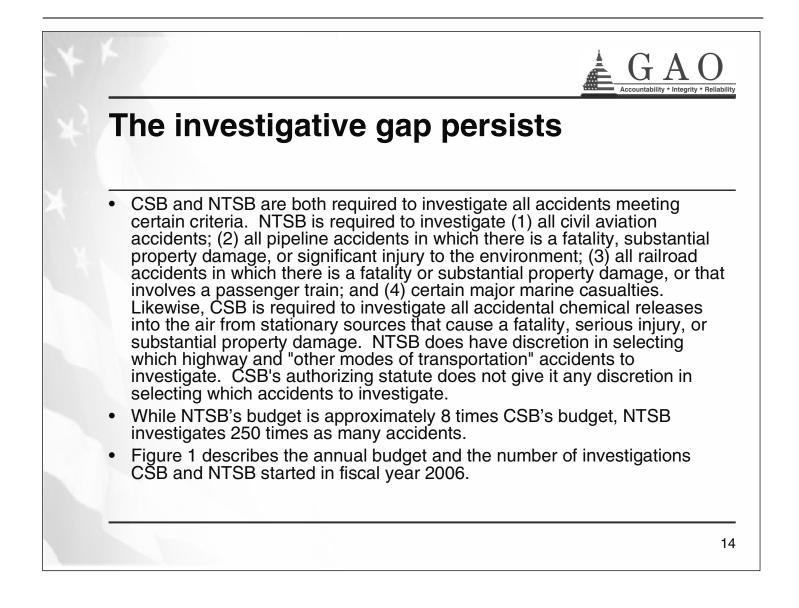


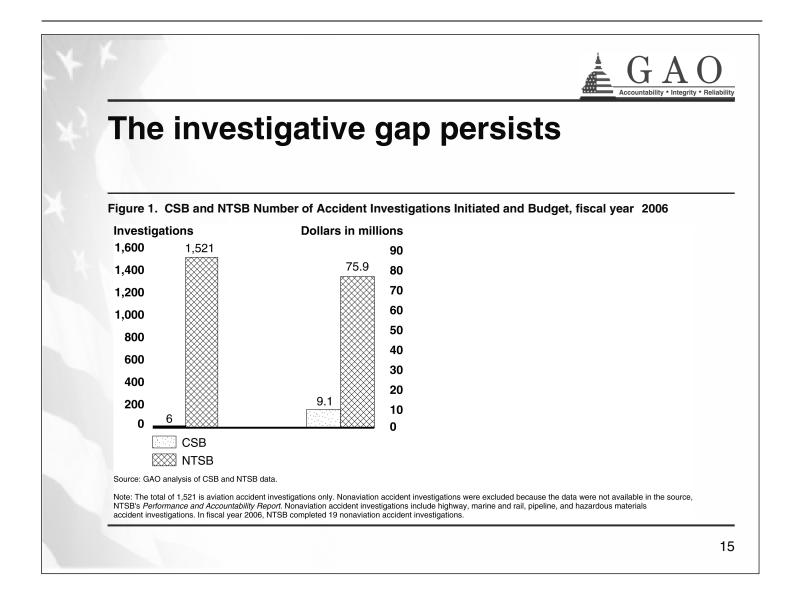


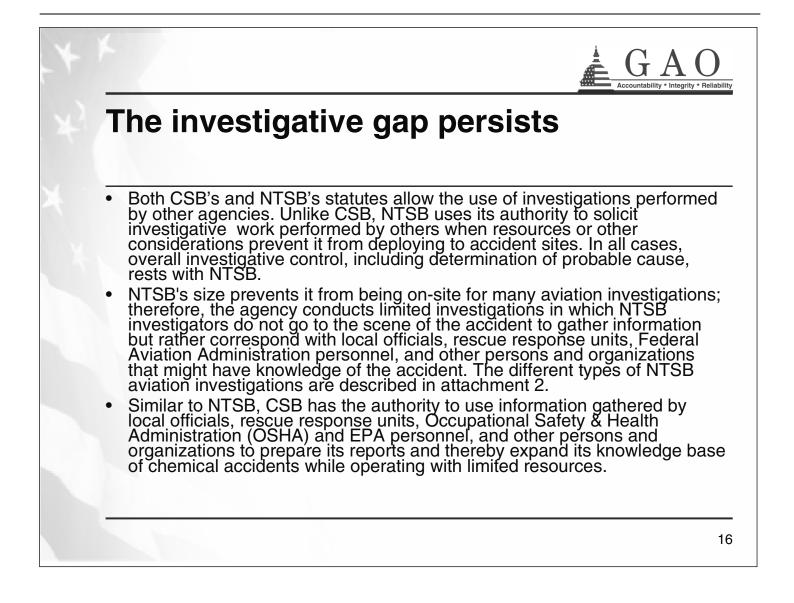


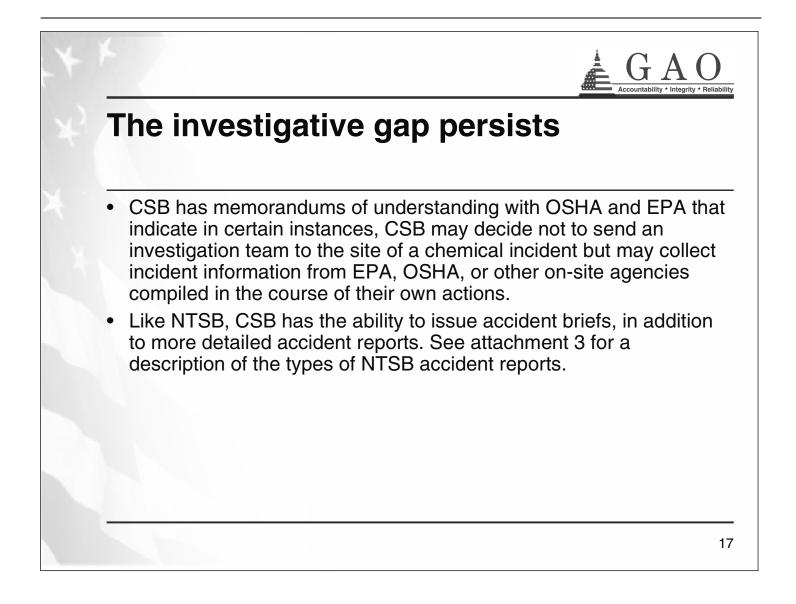


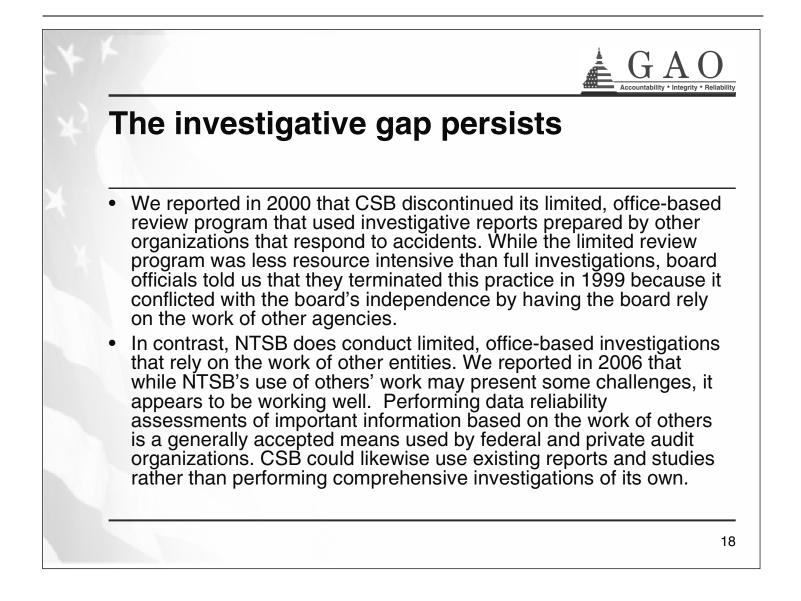
The investigative gap	persist	5
Table 1: Information on Chemical Accidents and Investigati and 2007	ions, Fiscal Years 2	006
	2006	2007
Total accidents CSB recorded in its screening database	822°	920°
Accidents CSB deployed to	9 ⁶	8°
Accidents CSB investigated	6	5
Accidents with fatalities	38ª	35°
Accidents with fatalities that CSB investigated	5	1
Source: GAO analysis of CSB data. ^a Because of data quality limitations, the accidents with fatalities identified and r underestimated. ^b The number of deployments is greater investigations because CSB deployed investigate.	eported in the database r than the number of acc	may be ident

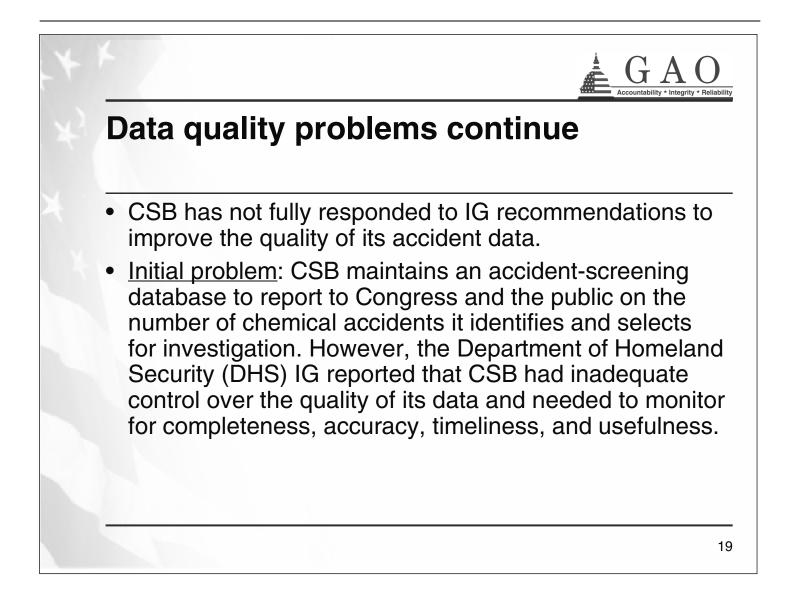


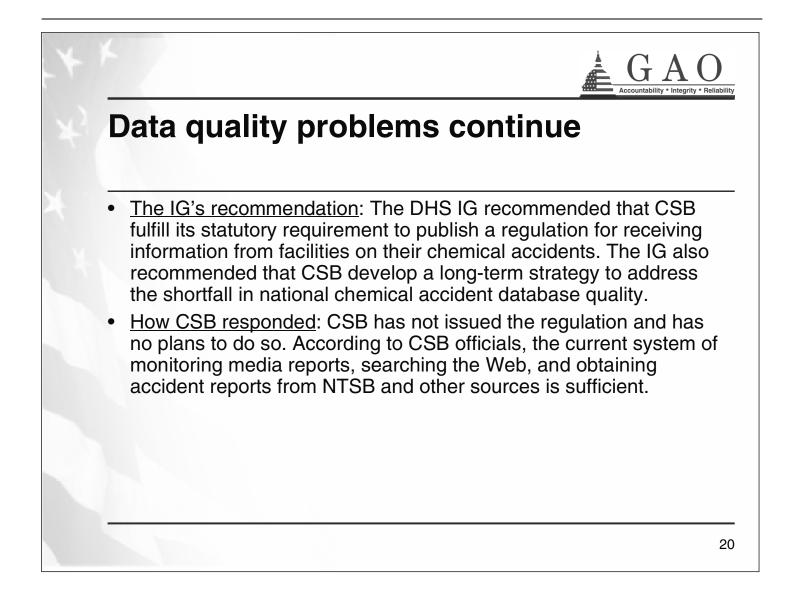


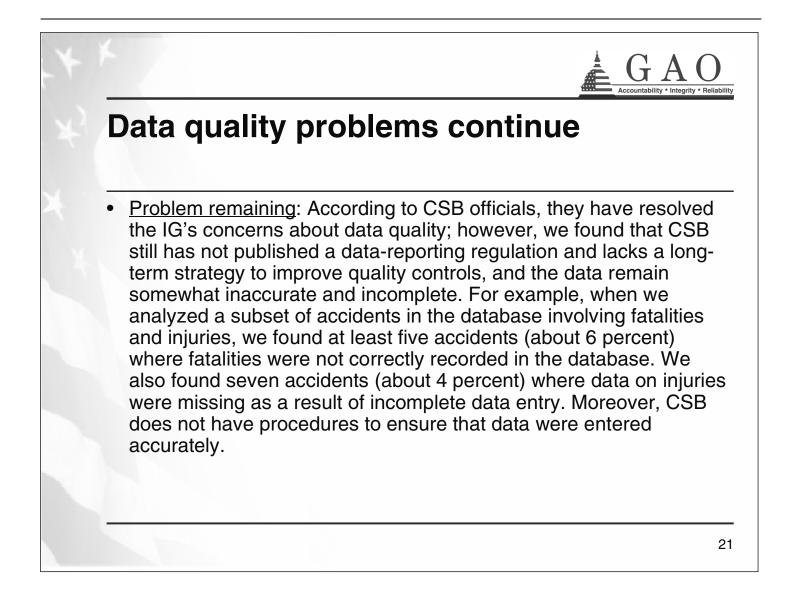


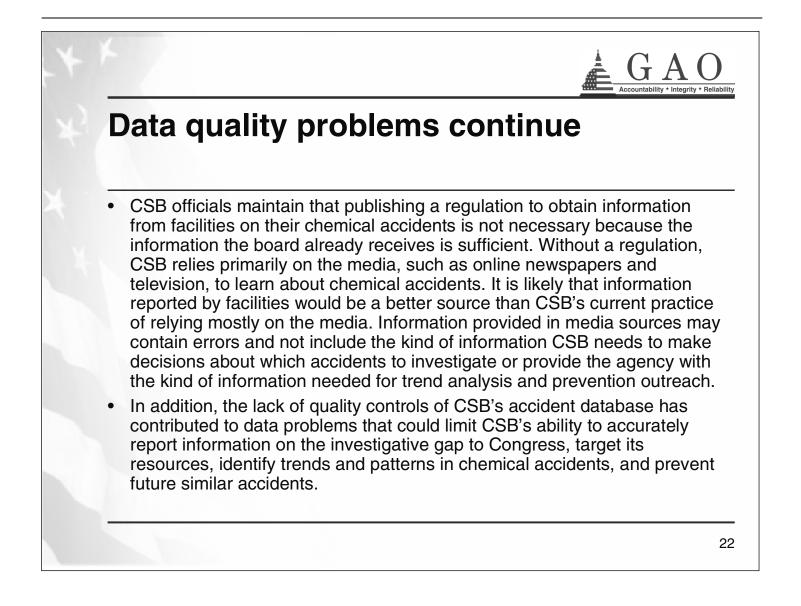


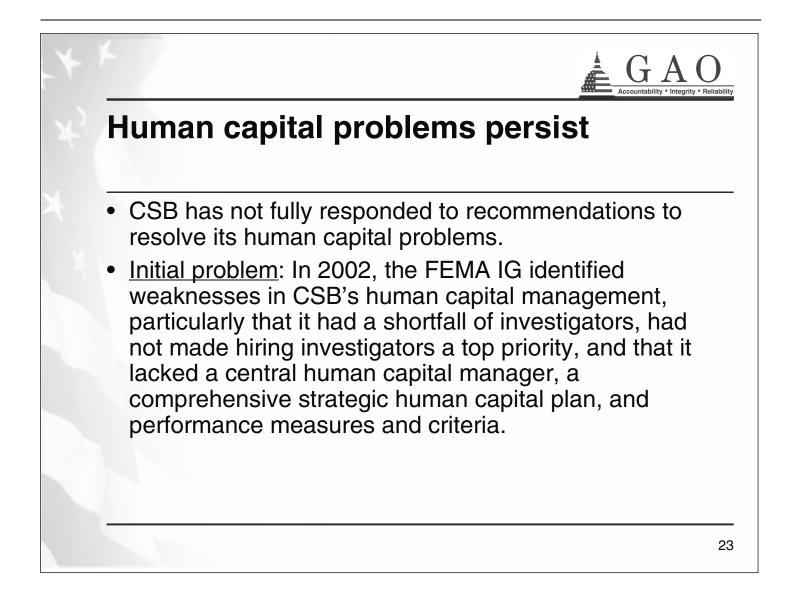


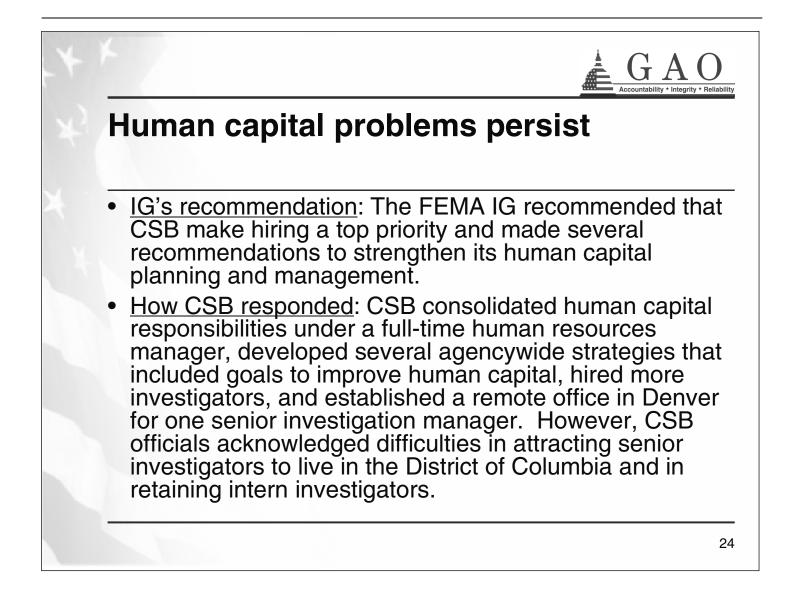


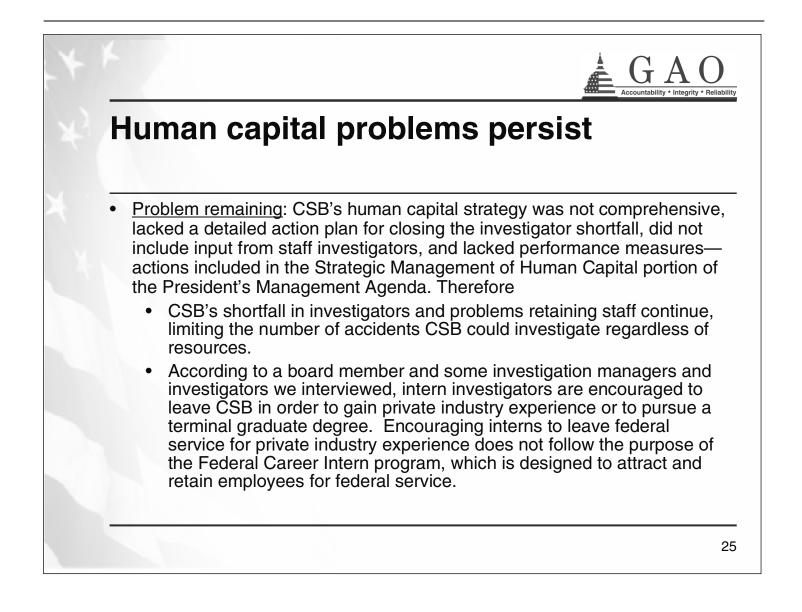


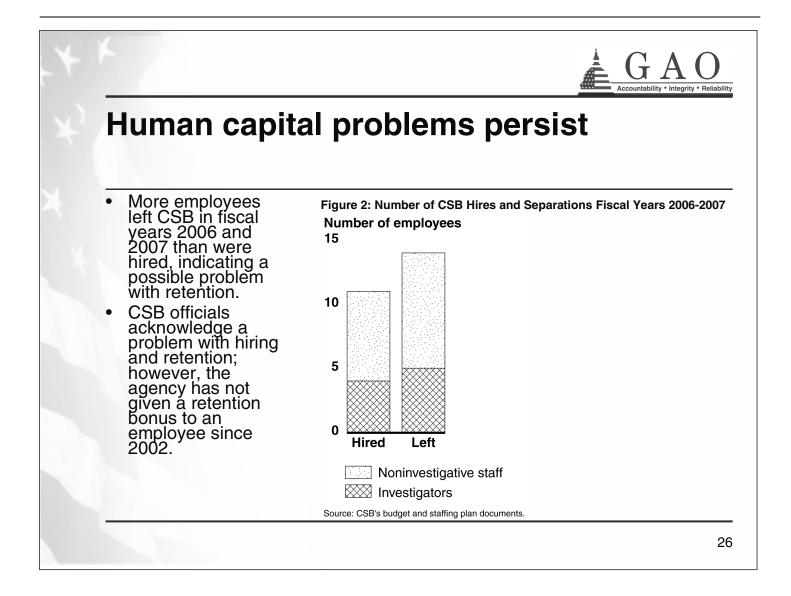


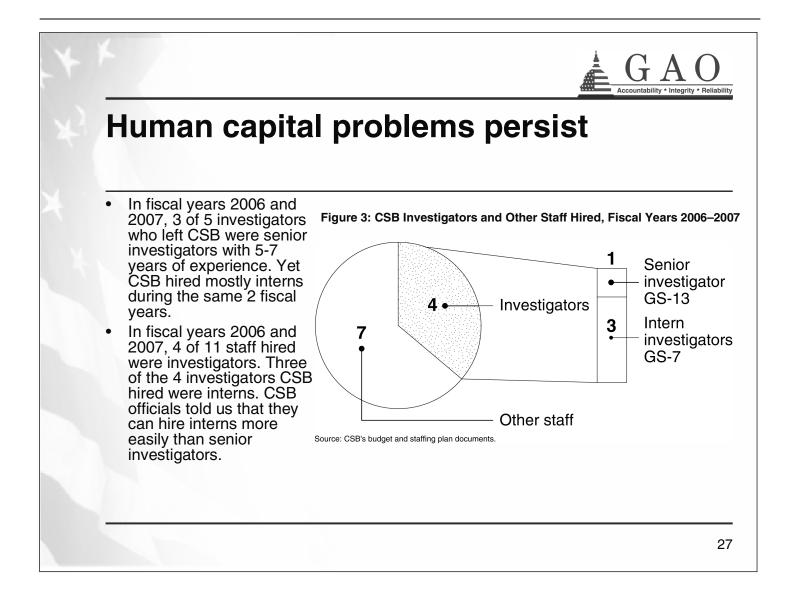


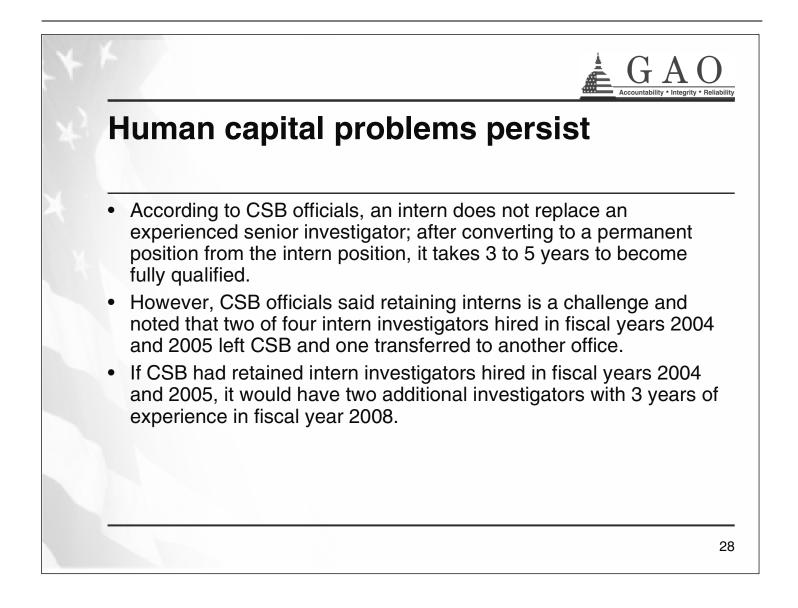


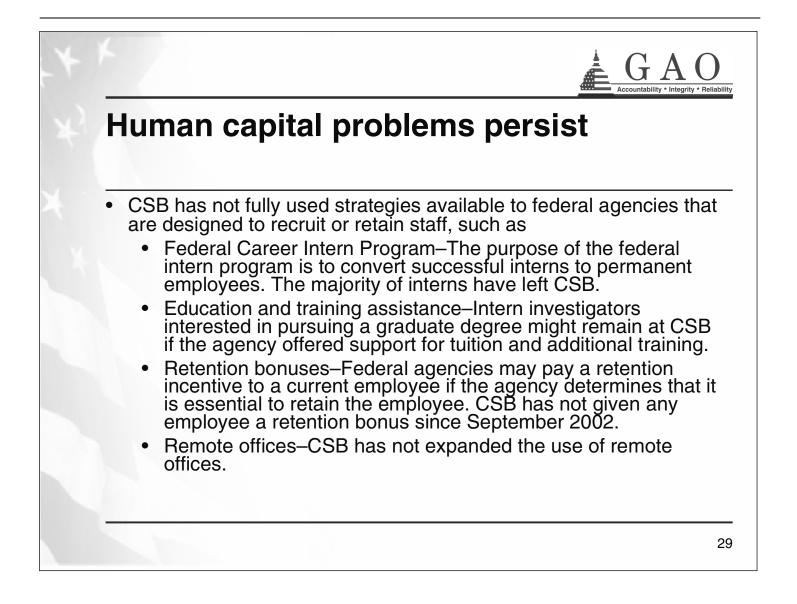


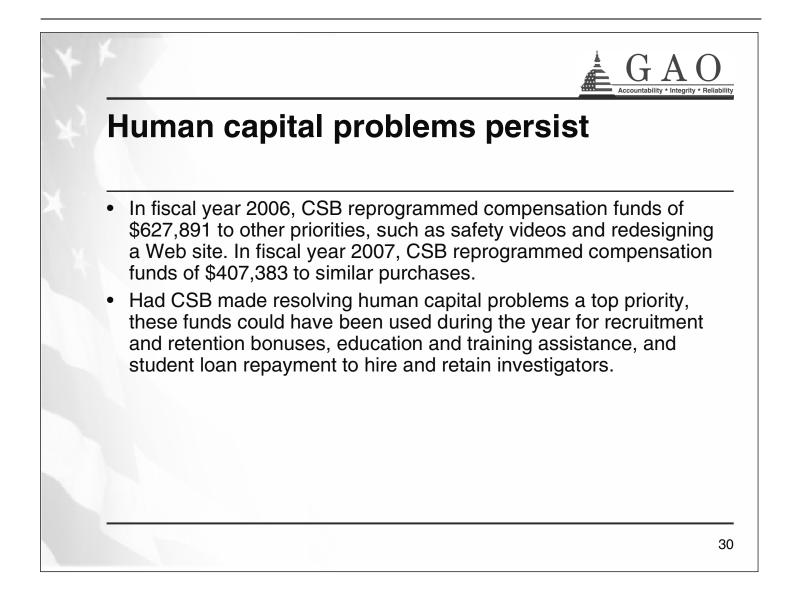


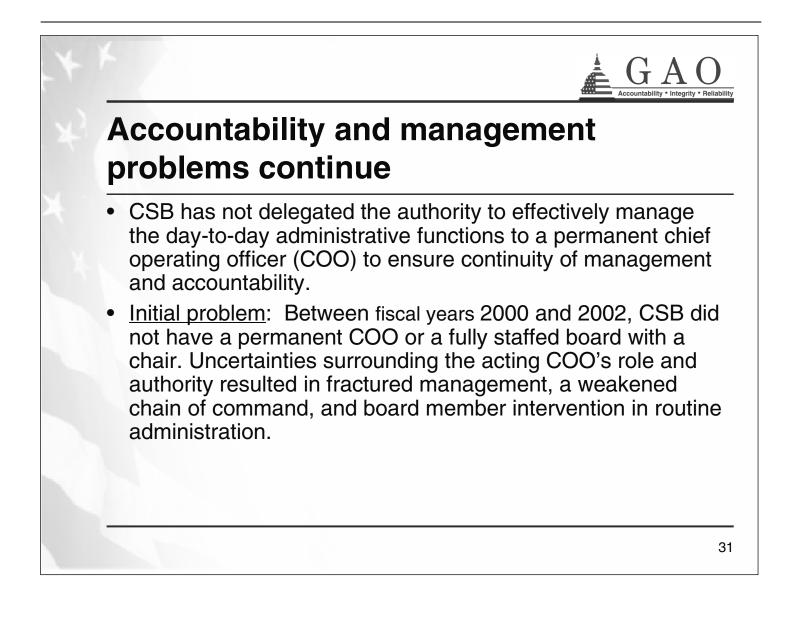


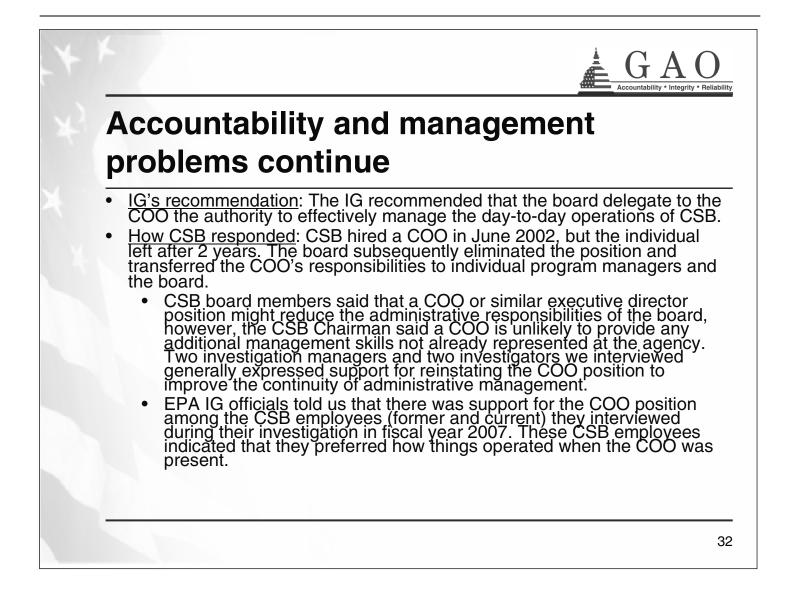


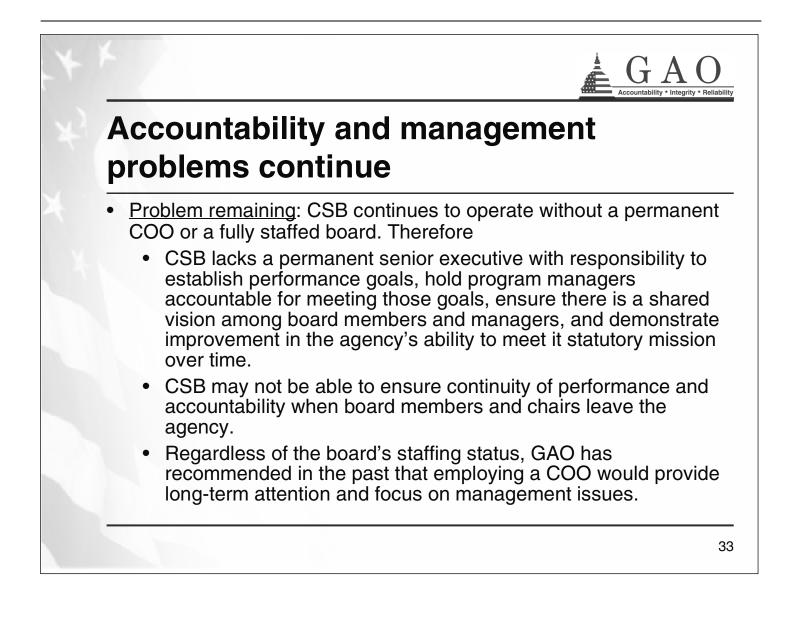


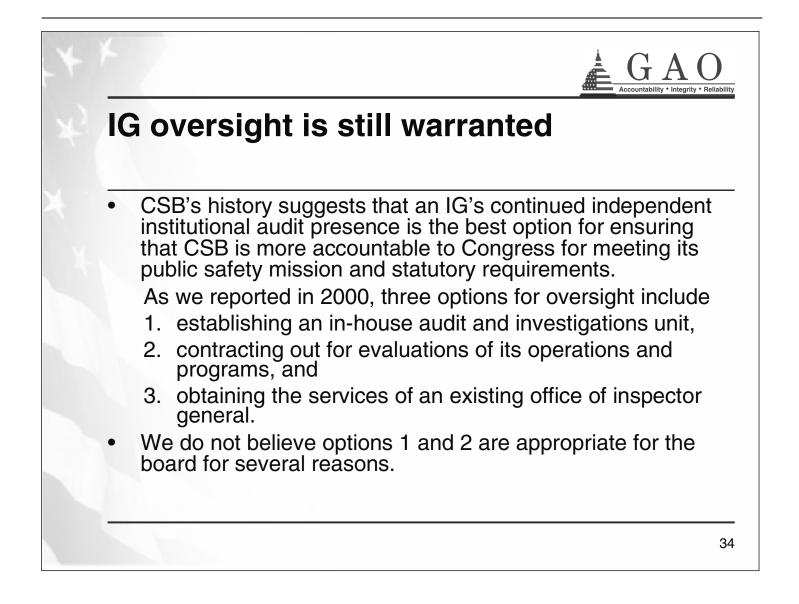


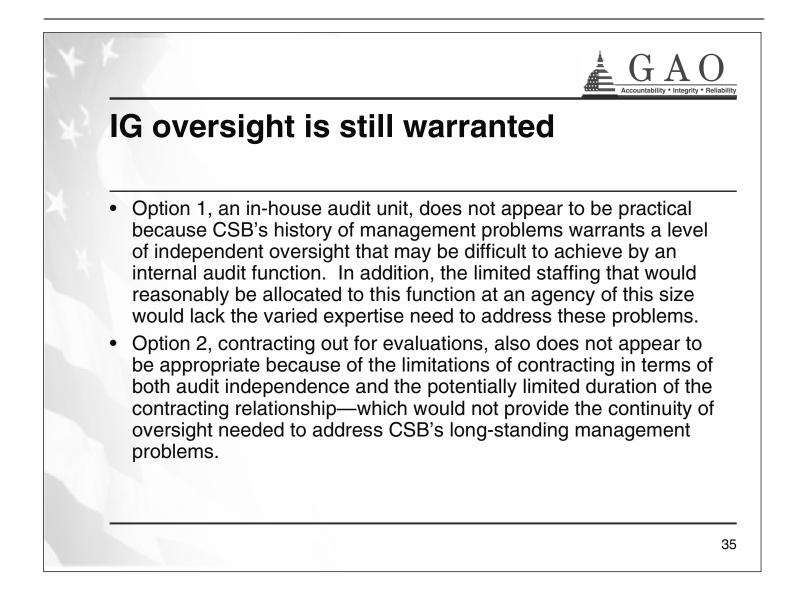


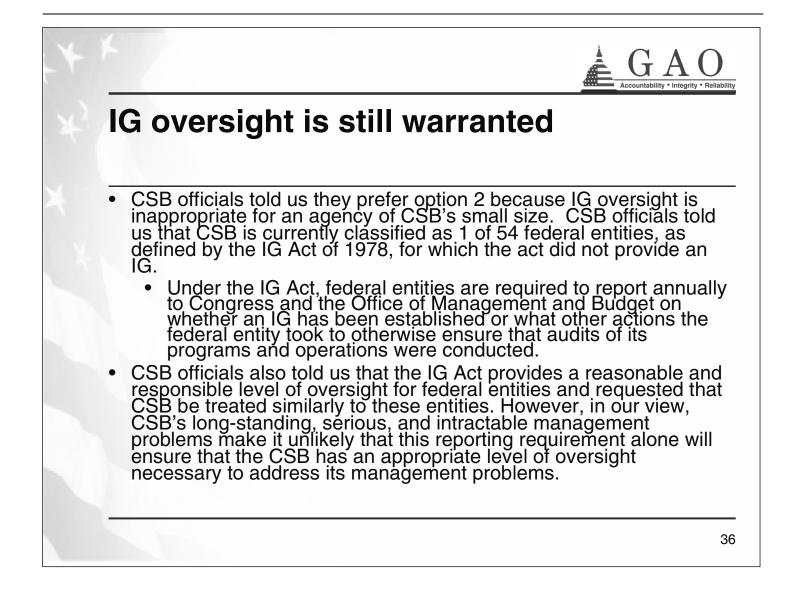


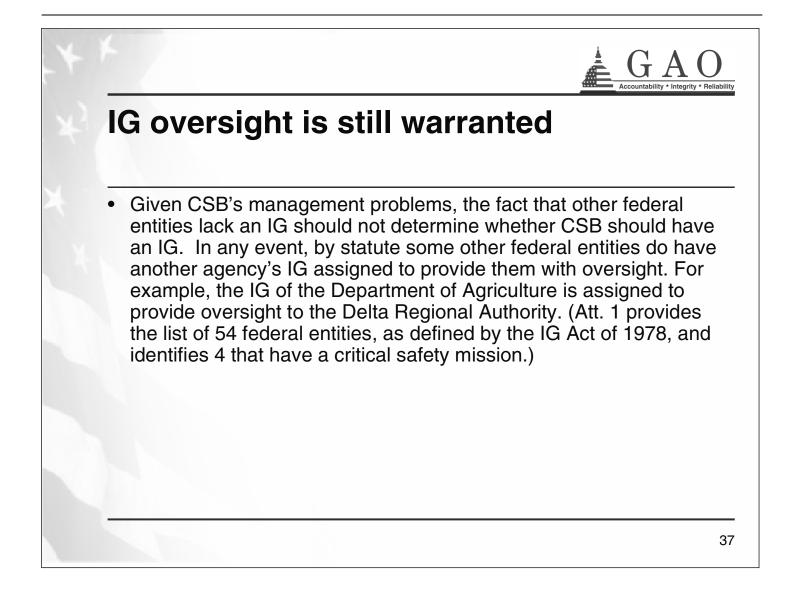


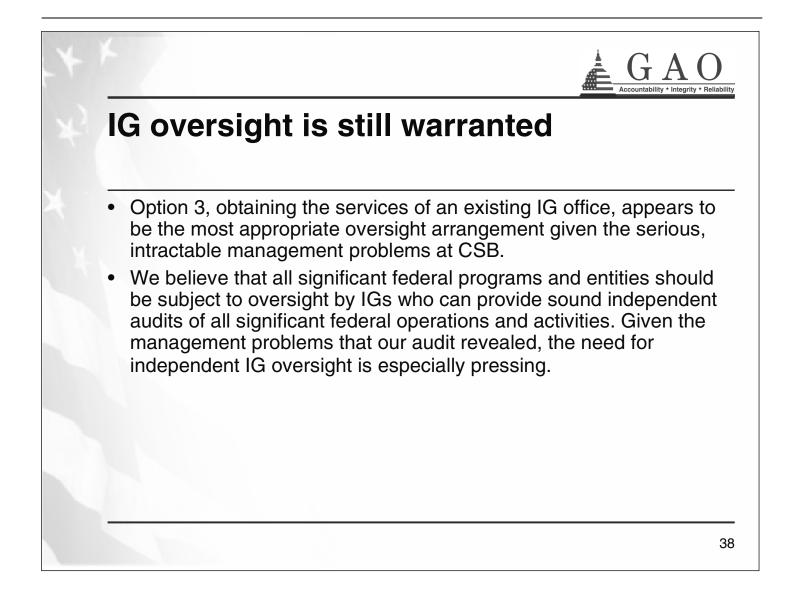


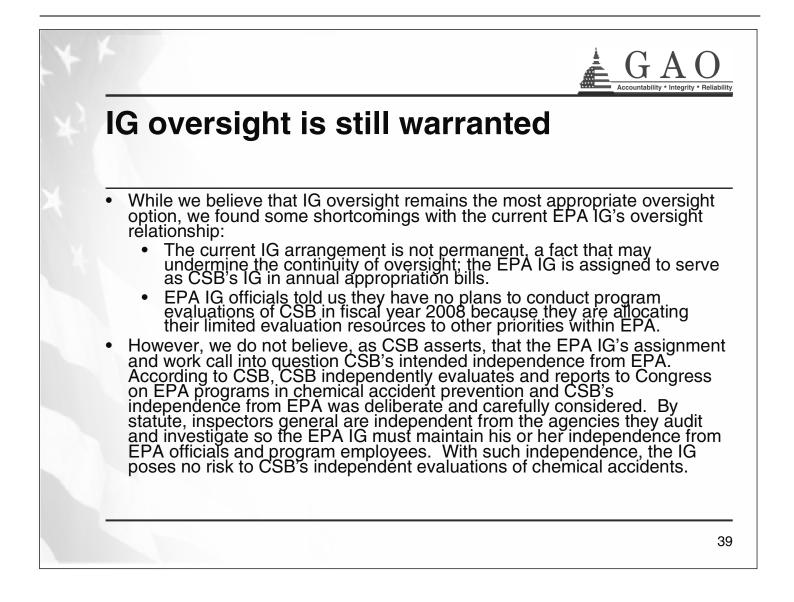


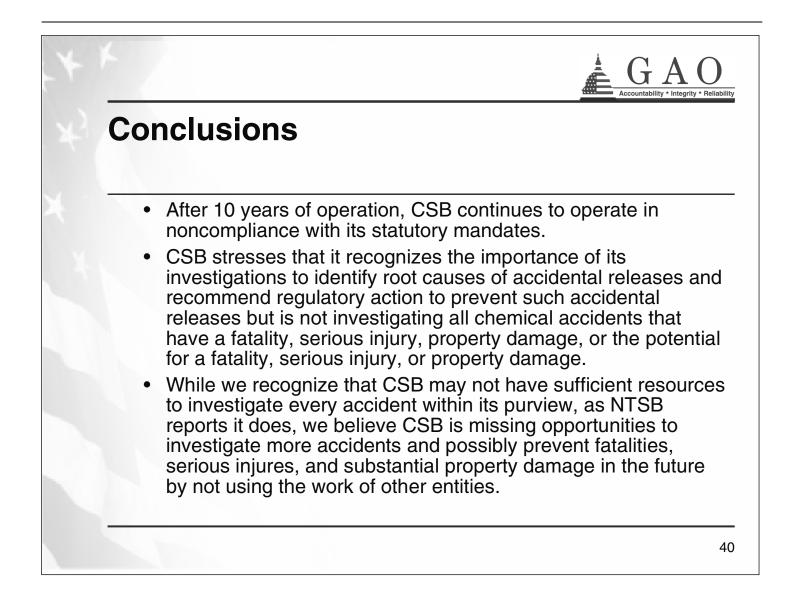


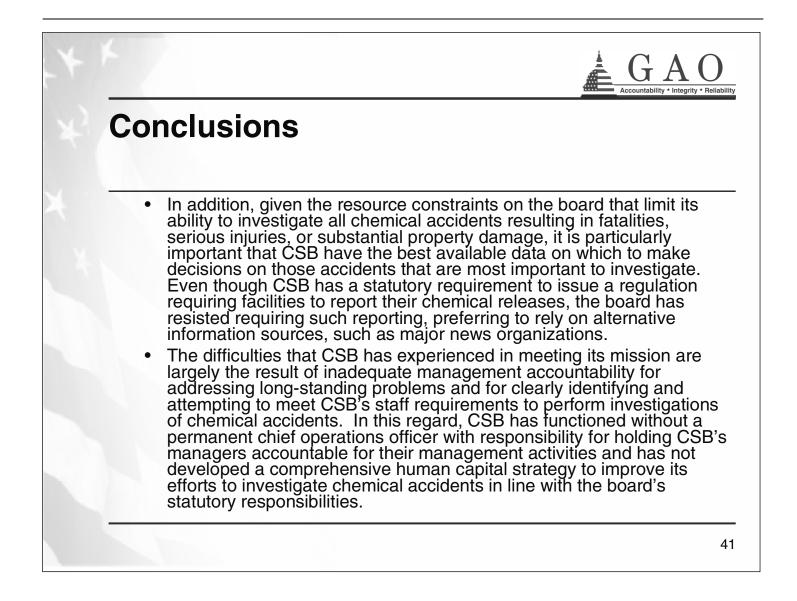


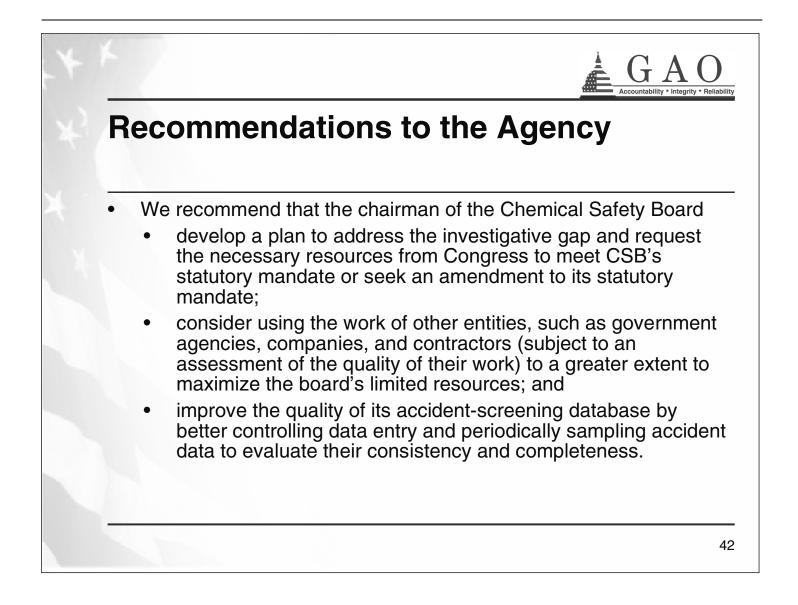


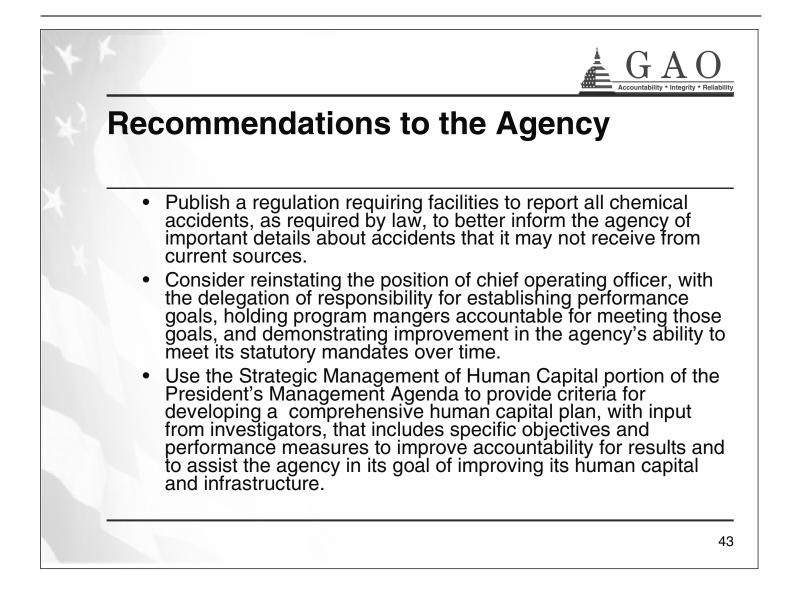


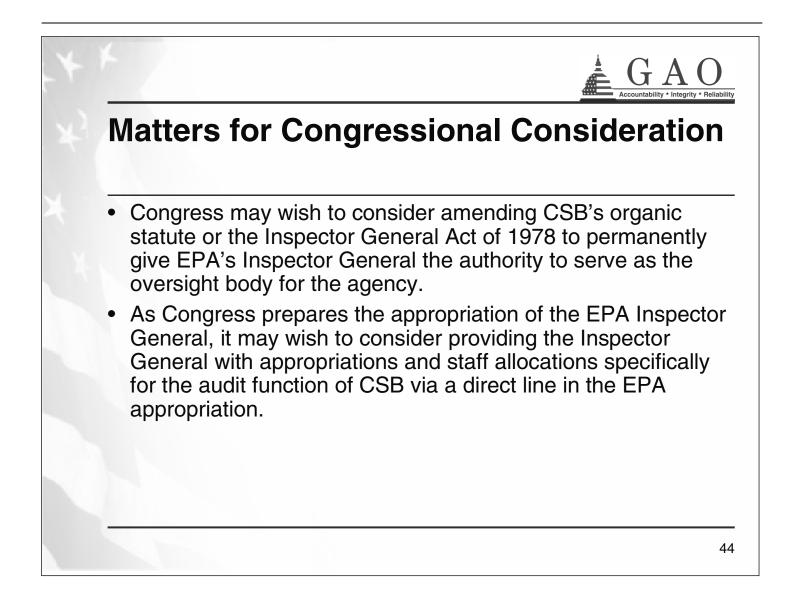


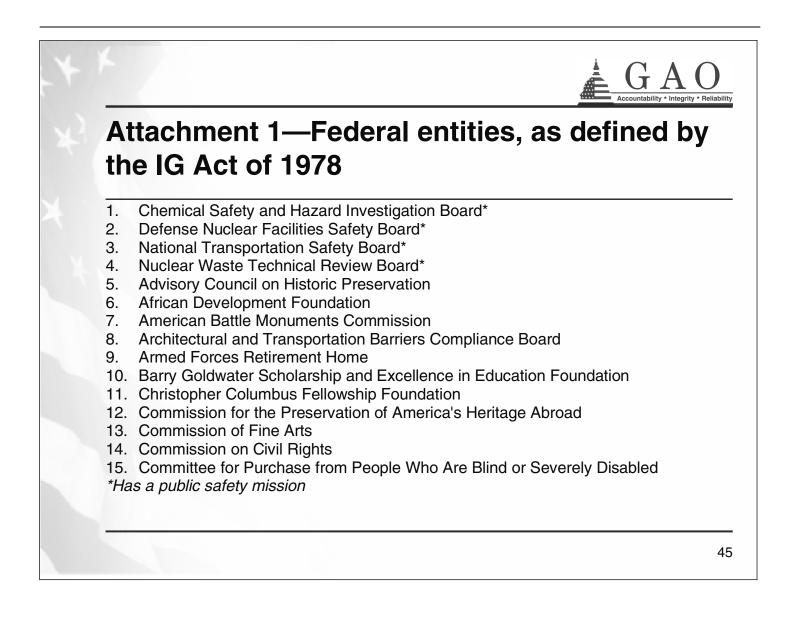


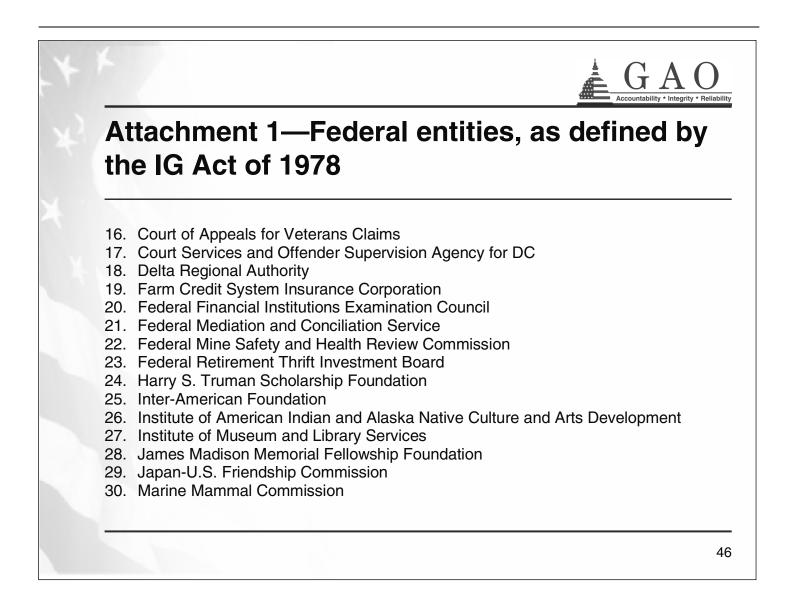


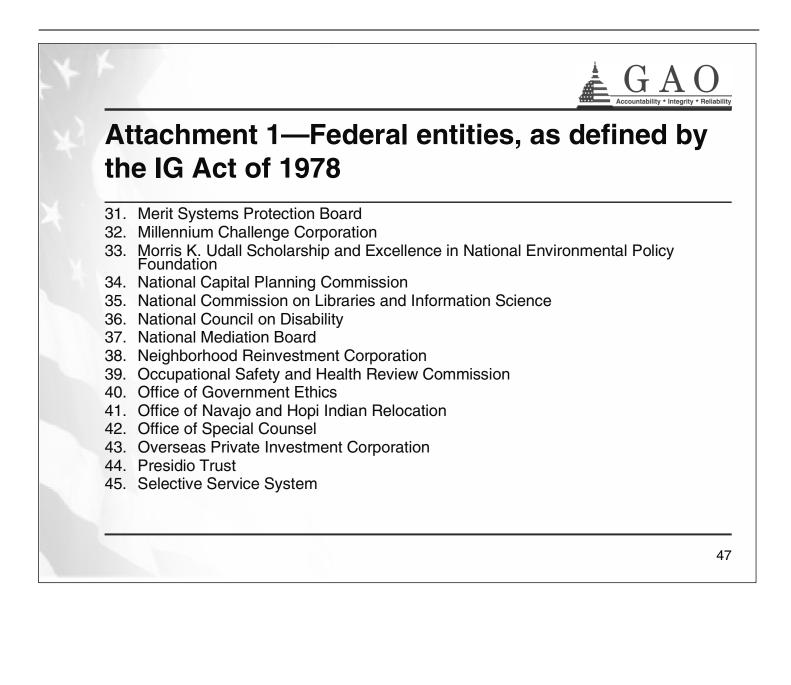


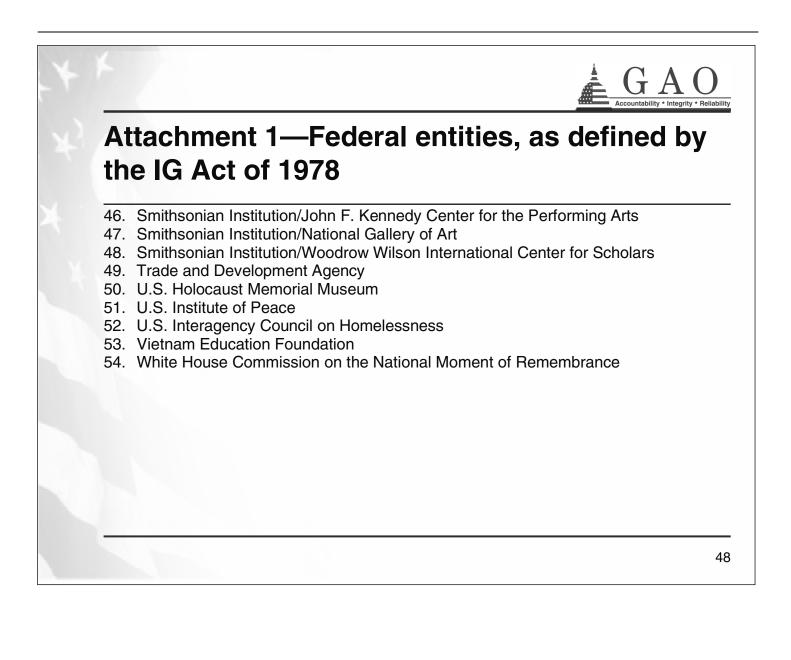








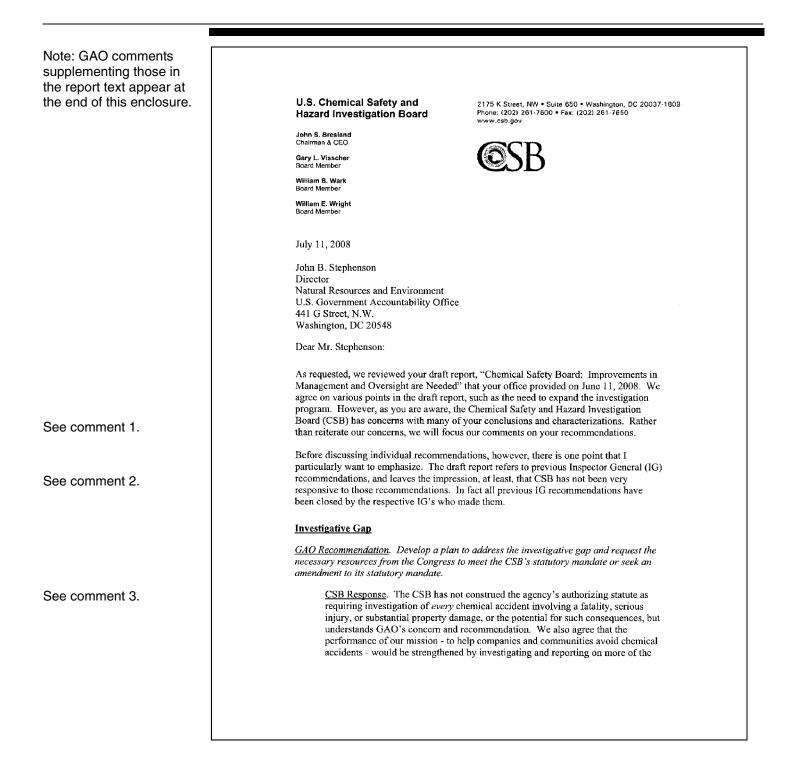




Attachment 2—Types of NTSB Aviation Accident and Incident Investigations				
Type of investigations	Number in fiscal year 2006		Travel involved?	Fatalities involved?
Major investigation	7	Investigation of a significant accident that typically involves fatalities, multiple injuries, considerable property damage, or significant public interest. A team of investigators travels to the accident site.	Yes	Yes
Field investigation ^a	196	Investigation of an accident that typically involves a fatality. At least one investigator travels and there is a significant amount of follow-up investigation from the office.	Yes	Typically ye
Limited investigation ^a	550	Investigation of accidents that can involve a fatality but typically do not. Investigators do not travel to the accident site but instead conduct a limited investigation using information collected by Federal Aviation Administration officials, local officials, rescue response units and other persons, and organizations that may have knowledge of the incident.	No	Typically n
Data collection accident investigation	739	Investigations of accidents that do not involve any fatalities, "critical" serious injuries, and other criteria. Investigators do not travel to the accident site but instead collect and analyze information from the office in order to determine the cause.	No	No
Incident investigation ^b	29	Investigation of occurrences that do not involve fatalities. Investigators do not typically travel for these investigations but instead conduct an investigation from the office.	Typically no	No

Туре	Description
Major accident reports	Reports that provide detailed narrative accounts of the facts, conditions, circumstances, analysis, conclusions, and probable cause of an accident. This type of report is issued for major aviation, railroad, highway, pipeline, and mari accident investigations.
Nonmajor accident reports (or "accident briefs")	Reports that briefly summarize the probable cause of an accident. This type of report is issued for all aviation accidents and for all nonmajor railroad, highway pipeline, and marine accidents investigated by or for NTSB, for which probable cause is determined.

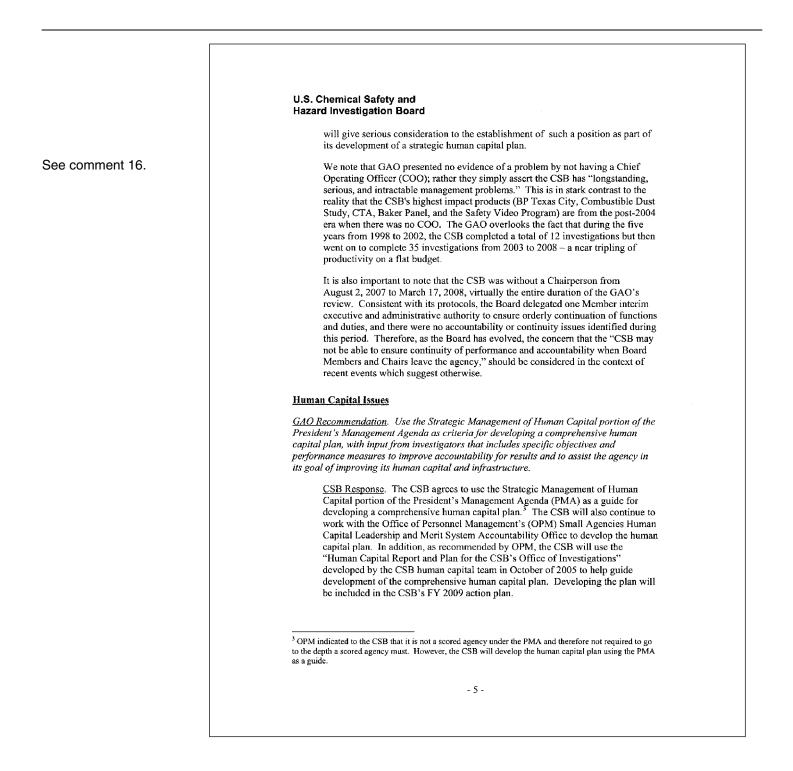
Enclosure III: Comments from CSB



	U.S. Chemical Safety and Hazard Investigation Board
	serious chemical accidents that occur in the United States each year.
See comment 4.	In addition to seeking additional investigation resources, we will draft a plan for obtaining information on additional chemical accidents occurring in the United States, and clearly set forth a risk-based approach to accident selection and investigation. We will also work with Congress to clarify the issue of CSB's statutory mandate, as suggested by GAO, including if appropriate, an amendment to the CSB's enabling legislation.
See comment 5.	We will examine the work of the National Transportation Safety Board (NTSB) to aid our future plan. However, we note that the GAO's comparison between 6 CSB investigations and 1,521 NTSB aviation investigations in FY 2006 may not be the most fruitful benchmark for future planning. The majority of the NTSB's aviation investigations were non-fatal general aviation incidents, with the NTSB relying heavily on the work of 3,400 FAA regional inspectors to determine the
See comment 6.	probable cause. Thus, the CSB will also examine the NTSB's statutory authority and work in other modes of transportation. In these other modes, the NTSB employs a risk based approach to select out priority incidents from all incidents within its jurisdiction.
See comment 7.	The purpose of increased resources, the plan, legislative clarification, and other measures discussed below would be to provide greater oversight and analysis of significant chemical incidents in the United States.
	Work of Others
	<u>GAO Recommendation</u> . Consider using the work of other entities, such as government agencies, companies, and contractors (subject to an assessment of the quality of their work) to maximize the Board's limited resources.
See comment 8.	<u>CSB Response</u> . The Board will consider using the work of other entities and contractors to further maximize its limited resources. In our experience, however, there are limits and pitfalls to the use of other entities' work. Based on this
See comment 9.	experience, we respectfully suggest that the CSB has correctly interpreted its Congressional mandate by independently investigating major accidents and hazards in depth, rather than attempting to serve as a clearinghouse for numerous, disparate, and often superficial reports from other organizations. We discuss some of our initial concerns with GAO's recommendation below.
See comment 10.	The Occupational Safety and Health Administration (OSHA) and the Environmental Protection Agency (EPA) frequently conduct inspections at accident sites. However, they have few inspectors focused and specialized on chemical process safety, and these agencies typically do not prepare narrative reports describing what happened and why. Rather, OSHA and EPA may publish citations or notices of regulatory violations, which may or may not relate to the actual causes of the accidents. These lists of violations cannot generally be used to establish and report on the causes of the accidents, as required under the CSB's
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authorizing statute. Likewise, the investigations conducted by state and local police and fire agencies generally focus on particular inquiries such as the "cause and origin" of a chemical fire, i.e., a determination of the fuel, location, and
ignition source. Such narrow determinations fall well short of Congress's stated intentions for the scope of CSB investigations. ¹
In addition, OSHA, EPA, state fire marshals, fire departments, and police clearly have law enforcement and regulatory responsibilities. Investigations by these agencies necessarily focus on rules violations, rather than on the overall adequacy of existing rules, standards, and industry practices. Because of their law enforcement and regulatory duties, many of these agencies are reluctant to share the results of their ongoing investigations with the CSB. In fact, during the CSB's investigation of the BP Texas City disaster, both OSHA and the EPA asserted in correspondence that they would limit the CSB's access to their inspection staff and records, citing in part the possibility of criminal prosecution. Today, more than three years after the BP accident - and more than a year after the CSB completed its landmark 341-page report - issues of criminal responsibility are still being litigated in federal court.
Most companies that experience significant chemical accidents that cause deaths, injuries, or off-site consequences become involved in lengthy litigation proceedings. Even the most enlightened corporations generally produce their own accident investigation reports as part of their litigation defense strategy - not in an effort to inform other companies and the public objectively about underlying causes. Moreover, companies often assert that such reports are protected by legal privilege. Even if the CSB was able to obtain and rely on such reports as a primary source of information, it could undermine the credibility of the CSB's work and lead, in some cases, to incorrectly faulting the efforts of individual workers and third parties, rather than uncovering important systemic causes.
Quality of Accident Data
<u>GAO Recommendation</u> . Improve the quality of [the CSB's] accident screening database by better controlling data entry and periodically sampling accident data to evaluate its consistency and completeness.
<u>CSB Response</u> . We note that the screening database primarily represents a compilation of the earliest reports of accidents – including those from the National Response Center (NRC) and the media – which may contain inherent inaccuracies. Nonetheless the CSB agrees that it should take additional steps to prevent errors from being introduced through incorrect data entry. The CSB will revise its board order on the incident selection process and consider changes to improve data accuracy. We plan to consider such measures as additional written guidance and training for incident sereciners; designing an electronic workflow so
¹ <u>See</u> S. Rpt. No. 101-228, 1990 U.S.C.C.A.N. 3385, 3617-18 (1989) (stating that, "The Board should take an "all cause" theory [I]t is expected that the Board will follow many strands of inquiry").
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	U.S. Chemical Safety and Hazard Investigation Board
	that significant changes to the database require supervisory sign-off; and periodic auditing of screening data for quality and completeness. In addition we will review the staffing for the screening program and its overall structure as the CSB develops its human capital plan. Currently screening is done by junior investigators as collateral duty on a rotating basis. The CSB lacks any staff solely dedicated to this task.
	Reporting Regulation
	<u>GAO Recommendation</u> . Publish a regulation requiring facilities to report all chemical accidents, as required by law, to better inform the agency of important details about accidents that they may not receive from current sources.
See comment 13.	<u>CSB Response</u> . The CSB will publish in the Federal Register a Request for Information (RFI) concerning a reporting regulation. The RFI will present various options for rulemaking and seek the views and opinions of our stakeholders on the best path forward. We intend to publish the RFI within the next three months. In addition, the detailed plan to conduct more investigations will include staffing and resource projections for staff to collect and analyze incident information.
See comment 14.	We note that the CSB's position has been that a reporting regulation is not needed for the narrow purpose of notifying the CSB of major accidents warranting the deployment of investigators, which appears to be the sole purpose of the CSB's authority to issue a reporting rule. ² Given the limited number of investigations that the CSB can conduct, we can and do easily learn what we need to know simply from monitoring the media and reports from the NRC and NTSB.
See comment 15.	It is also important to note that the obligation to collect chemical incident data for the broader purposes identified by GAO appears to lie elsewhere in the federal government. For example, Congress funds programs to collect chemical accident data at both EPA and the Agency for Toxic Substances and Disease Registry. OSHA also collects chemical incident information.
	Management Accountability and Continuity
	<u>GAO Recommendation</u> . Consider reinstating the position of chief operating officer, with the delegations of responsibility for establishing performance goals, holding program managers accountable for meeting those goals, and demonstrating improvement in the agency's ability to meet its statutory mandates over time.
	<u>CSB Response</u> . The CSB agrees that it is appropriate to consider establishing a senior executive position to oversee important mission responsibilities. The CSB
	² <u>Sec</u> 42 U.S.C. § 7412(r)(6)(C)(iii).
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	U.S. Chemical Safety and Hazard Investigation Board
	Matters for Congressional Consideration
	Finally, GAO's draft report raised two specific matters for Congressional consideration concerning oversight of the CSB. The CSB supports oversight and agrees that the CSB's authorizing legislation or the IG Act of 1978 are the proper places to address CSB oversight. However, the CSB has concerns with the GAO's specific suggestions for Congressional consideration.
	<u>GAO Suggestion</u> . Congress may wish to consider amending the CSB's authorizing statute or the Inspector General Act of 1978 to permanently give the EPA's Inspector General the authority to serve as the oversight body for the agency.
See comment 17.	<u>CSB Comment</u> . The CSB respectfully disagrees with the GAO's suggestion that the EPA IG is the best, if not only, approach to provide permanent oversight for the CSB. While the EPA IG is one option for oversight of the CSB, other Offices of Inspector General are also available, some of which may be more appropriate for the role.
See comment 18.	There are other alternatives as well. For example, the CSB is modeled on the NTSB. The NTSB, a much larger agency than the CSB, has never had and does not have its own Inspector General. Rather, GAO and the Department of Transportation Inspector General (DOTIG) share oversight responsibilities. GAO is responsible for broad oversight of the NTSB. ⁴ DOTIG is limited "to review only the financial management, property management, and business operations of the National Transportation Safety Board." (Emphasis added.) ⁵ DOTIG actually contracts this function to a third party which it oversees, so the connection between DOTIG and the NTSB is extremely limited.
See comment 19.	This model has been established in recognition of the fact that the NTSB issues recommendations to the Department of Transportation, similar to the manner in which the CSB issues recommendations to the EPA. Indeed, Congress has <i>consistently</i> and specifically <i>rejected</i> the assignment of DOTIG to serve as the Inspector General of the NTSB. ⁶ The relevant legislative history explains that the limited nature of the DOTIG's authority was to "ensure that Inspector General oversight does not undermine the independence of the NTSB." ⁷
See comment 20.	Another alternative is a small in-house Inspector General office. Such a model already exists for about 30 medium-size agencies, such as the Consumer Product Safety Commission, which are not large enough to have presidentially appointed
	 ⁴ See Pub. L. No. 109-443, 120 Stat. 3297, 3299, § 5(a) (2006) (codified at 49 U.S.C.A. § 1138). ⁵ 49 U.S.C. § 1137(a). ⁶ The CSB has conducted numerous discussions with NTSB officials in order to understand why the DOTIG role as the NTSB IG was rejected. NTSB officials have consistently explained to us that this was to prevent the appearance or the occurrence of conflicts with DOT officials to whom the NTSB makes recommendations. ⁷ 11.R. Rep. No. 106-335 at 9 (2000) and S. Rep. 106-386 at 9 (2000).
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U.S. Chemical Safety and Hazard Investigation Board IG's. Such an arrangement would appear to be less costly and more beneficial in the long term than what GAO has suggested. GAO Suggestion. As Congress prepares the appropriation of the EPA Inspector General, it may wish to consider providing the Inspector General with appropriations and staff allocations specifically for the audit function of CSB via a direct line in the budget. See comment 21. CSB Comment. The CSB is concerned that GAO did not adequately consider different oversight options for the CSB. While we agree that oversight of every federal agency is appropriate and can be beneficial, it should be tailored to the size of the agency. In that regard I note that the CSB currently obtains its financial and information security audits for about \$60,000 a year. * * * Thank you for the opportunity to comment on your draft report. Sincerely, John Bresland John S. Bresland Chairman & CEO - 7 -

	The following are GAO's comments to the U.S. Chemical Safety and Hazard Investigation Board's letter dated August 9, 2008.
GAO Evaluation	1. We believe this briefing fairly and factually identifies continuing problems with CSB's governance, management, and oversight that have continued since we first reported on CSB, in fiscal year 2000. ¹ We conducted this performance audit in accordance with generally accepted government auditing standards. Those standards require that we plan and perform the audit to obtain sufficient, appropriate evidence to provide a reasonable basis for our findings and conclusions based on our audit objectives. We believe that the evidence obtained provides a reasonable basis for our findings and conclusions based on our audit objectives.
	2. While the inspectors general closed these recommendations, their decision was often based on CSB's commitment to take future actions and the IG's reserving the right to reopen recommendations. As stated in the briefing, our analysis shows that CSB has not fully responded to key recommendations related to (1) investigating more accidents that meet statutory requirements triggering CSB's responsibility to investigate, (2) improving the quality of its accident data, (3) resolving human capital problems, and (4) ensuring accountability and continuity of management.
	3. The 1990 Clean Air Act Amendments establishing CSB contained the following mandates:
	• "The Board shall investigate (or cause to be investigated) <i>any</i> accidental release resulting in a fatality, serious injury or substantial property damage" ² (emphasis added).
	• <i>"In no event shall the Board forgo</i> an investigation where an accidental release causes a fatality or serious injury among the general public, or had [sic] <i>the potential</i> to cause substantial property damage or a number of deaths or injuries among the general public" ³ (emphasis added).
	¹ GAO, Chemical Safety Board: Improved Policies and Additional Oversight Are Needed (GAO/RCED-00-192, July 11, 2000).

²42 U.S.C. § 7412(r)(6)(C)(i).

³42 U.S.C. § 7412(r)(6)(E).

As noted in our briefing slides, this language clearly identifies the accidental releases CSB is required to investigate; investigations are required for all accidental releases that result, or have the potential to result, in a fatality, serious injury, or substantial property damage.

4. While CSB reports that it will seek additional investigation resources and "will draft a plan for obtaining information on additional chemical accidents occurring in the United States, and clearly set forth a riskbased approach to accident selection and investigation," it does not commit to meet CSB's statutory mandate or commit to investigating more than six accidents per year. However, CSB reported that the agency would work with Congress to clarify the issue of its statutory mandate and, if appropriate, seek an amendment to its authorizing statute.

Also see comment 3.

5. A more useful benchmark for comparison between CSB and NTSB is to examine their appropriations and accident investigations. As noted on slide 15, while NTSB's budget is 8 times CSB's budget, NTSB investigated 250 times as many accidents. In addition, while CSB notes that the majority of NTSB's accident investigations were nonfatal, the majority of accidents CSB screened were also nonfatal, as stated on slide 14.

CSB also notes that NTSB relies "heavily on the work of FAA." CSB could similarly rely more on the work of EPA and OSHA and already has cooperative agreements in place with these agencies to share information on accidents. The agency currently has memorandums of understanding (MOU) with both EPA and OSHA with the stated purpose of establishing "policy and general procedures for cooperation and coordination between the two Agencies to minimize duplication of activities." Moreover, the MOUs state the two agencies will "coordinate incident notification, data and information exchange, training, technical and professional assistance." The MOU with EPA further states that "in certain instances, the CSB may decide not to send an investigation team to the site of a chemical incident. Rather, CSB may collect incident information from EPA or other on-site agencies compiled in the course of their own actions." Similar language appears in the MOU with OSHA.

6. In our view, this approach would not be consistent with CSB's own authorizing legislation. NTSB's authorizing legislation gives it broad discretion in determining which accidents in the nonaviation

transportation modes to investigate. For example, NTSB "shall investigate or have investigated...a highway accident, including a railroad grade crossing accident, the Board *selects* in cooperation with a State"⁴ (emphasis added). In addition, NTSB's authorizing legislation requires investigations of "any other accident related to the transportation of individuals or property *when the Board decides*" that certain circumstances are present (emphasis added).⁵ CSB's authorizing statute, on the other hand, does not contain any similar language providing discretion for CSB to determine which accidental releases to investigate.

CSB's statutory authority is more comparable to the language that governs NTSB's investigations of civil aviation, railroad, and pipeline accidents. NTSB is required to investigate railroad accidents with a fatality or substantial property, railroad accidents that involve a passenger train, and pipeline accidents with fatalities, substantial property damage, or significant injury to the environment.⁶ Like CSB, NTSB is required to investigate these types of accidents; it does not have the discretion to choose which to investigate.

Also see comment 3 and 4.

7. Our recommendation is to develop a plan to address the investigative gap and request the necessary resources from Congress to meet CSB's statutory mandate or seek an amendment to its statutory mandate.

Also see comment 3 and 6.

8. GAO agrees that there are limitations in using the work of others. As CSB examines NTSB's work, it may find that there are lessons to be learned about how to minimize the limitations in using the work of others. While NTSB uses its authority to solicit the investigative work performed by others when resources or other considerations prevent it from deploying to accident sites, in all cases, overall investigative control—including determination of probable cause—rests with NTSB. As we reported in 2007, outside experts provide critical assistance to NTSB investigators. During the course of an investigation, NTSB

⁴49 U.S.C. § 1131(a)(1)(B).

⁵49 U.S.C. § 1131(a)(1)(F).

⁶42 U.S.C. § 1131(a)(1).

supplements its investigative staff through the use of "parties" and outside contractors when it needs additional support for fact finding or technical analysis. "Party" participants include individuals, agencies, companies, and associations that can provide technical expertise relevant to a specific accident during the fact-finding phase. While the party process may provide technical information that is important for determining the cause of an accident, it presents inherent conflicts of interest for entities that are both parties in an investigation and potential defendants in related litigation. For example, in a commercial aviation accident, the principal defendants in litigation for damages are likely to be the airline and aircraft manufacturer, who may face liability for dozens of deaths—both entities that are likely working with NTSB as parties to the investigation. Despite such challenges, the party system appears to be working well; for example, RAND Corporation found that the party system works well in that it allows NTSB to leverage its resources to provide critical safety information in regard to the accident under investigation. In addition, NTSB officials told us that the system is an efficient way of gathering and sharing information about the accident with investigators and other parties. Also, having multiple parties on an investigation offsets concerns of conflict of interest and impartiality.

In addition, according to NTSB officials, the agency makes a distinction between fact gathering and analysis. Parties are permitted to gather facts (evidence) for NTSB, but they are not permitted to engage in the analysis of that evidence.

9. As noted above, CSB's authorizing statute requires investigations of all accidental releases that cause, or have the potential to cause, a fatality, serious injury, or substantial property damage. CSB's authorizing statute does not specify, that investigations should be limited to those accidental releases that are "major." In addition, CSB's authorizing statute grants CSB discretion to "utilize the expertise and experience of other agencies."⁷

Also see comment 3.

10. CSB could use information available from other entities, including OSHA and EPA, to conduct its own independent analysis of accidents, although in some cases, CSB may need to supplement information

⁷42 U.S.C. § 7412(r)(6)(D).

provided by other entities through follow-up calls, sending investigators to the scene of the accident, or other means.

Also see comment 8.

11. When CSB examines the work of NTSB, the agency could review how NTSB obtains information from other public entities pertaining to ongoing investigations.

Also, see comments 5 and 8.

12. An examination of NTSB's work may provide information about how NTSB uses its party process to minimize the limitations in using the work of others.

Also see comments 8 and 11.

- 13. We recognize that obtaining the views and opinions of CSB's stakeholders could provide valuable information regarding the preparation of a reporting regulation. However, the request for information does not in itself provide assurance that CSB will follow through and issue a regulation as required by CSB's authorizing statute. Specifically, the statute provides that the board "shall...establish by regulation requirements binding on persons for reporting accidental releases into the ambient air subject to the Board's investigatory jurisdiction."⁸ CSB's comments concerning the need for such a regulation are not relevant because CSB is legally required to promulgate a regulation. In addition, we disagree with CSB about the regulation's usefulness. A reporting regulation would allow CSB to obtain more accurate, complete information to meet its statutory mandate.
- 14. As we note in our briefing, information reported by facilities would be a better source than CSB's current practice of relying mostly on information from the media, which CSB officials acknowledge is often inaccurate or incomplete. Our analysis of CSB's accident data showed that in fiscal year 2007, CSB received 66 percent of its chemical accident notifications exclusively from the news media. In addition, CSB's accident database is not just for selection of accidents to investigate, it is also used to report to Congress and serves as a

⁸42 U.S.C. § 7412(r)(6)(C)(iii).

historical record of information on chemical accidents that could be used to identify trends and patterns in chemical accidents and prevent future accidents.

See also comment 13.

15. The Department of Homeland Security Inspector General (DHS IG) reported in 2004 that the lack of comprehensive and timely reporting on chemical accidents in general is a problem the CSB is both positioned and required to address.⁹ Citing a 2002 CSB report on reactive hazards,¹⁰ the DHS IG reported that "CSB searched 40 public and private databases and reported that its findings were limited because existing sources of incident data are inadequate to identify the number, severity, frequency, and causes of reactive incidents. CSB's analysis included chemical accident data at EPA and OSHA.

Also see comments 13 and 14.

16. We introduced the recommendation for reinstating a permanent COO as one way CSB could begin addressing the management and accountability problems that we have presented in this briefing. As stated in the briefing, the difficulties that CSB has experienced in meeting its mission are largely the result of inadequate management accountability for addressing long-standing problems. If CSB officials recognize these long-standing problems and agree that they need to be addressed, then reinstating a permanent COO could help provide the continuity of management needed to bring about this change. In addition, former Chairman Carolyn W. Merritt testified in July 2007 that CSB

"would benefit...if Congress...provided for a vice chairman to assure the orderly transition during times when the chair is vacant. Periodic vacancies in the chair, and the resulting absence of executive authority, pose a significant risk to the success of the agency. Under the existing structure, CSB board members cannot

⁹Department of Homeland Security Office of Inspector General, *A Report on the Continuing Development of the U.S. Chemical Safety and Hazard Investigation Board*, OIG-04-04 (Jan. 7, 2004).

¹⁰U.S. Chemical Safety and Hazard Investigation Board, *Improving Reactive Hazard Management*, Sept. 17, 2002.

serve beyond the expiration of their five-year terms, and thus vacancies in the chair and other board seats are all but inevitable." $^{\rm 11}$

- 17. While we recognize that alternatives exist for providing CSB with management oversight, after reviewing various oversight options, we continue to believe that the EPA IG has several advantages, provides the best option for oversight, and the oversight authority should be made permanent. The EPA IG has expertise involving the chemical management issues that the Board is charged with investigating, has gained knowledge of CSB's operations and activities in providing the Board with oversight over the past several years, and, like other IGs, has the requisite independence provided by the IG Act of 1978 necessary for reviewing and making recommendations to address long-standing problems in the Board's management performance.
- 18. We recognize that Congress provided for a division of responsibility between the Department of Transportation (DoT) IG and GAO regarding the oversight of NTSB. However, GAO has largely devoted its efforts to program evaluations and policy analyses that look at programs and functions across government and with a longer-term perspective. On the other hand, IGs have been on the front line of combating fraud, waste, and abuse within their respective agencies, and their work has generally concentrated on specific program-related issues of immediate concern with more of their resources going into uncovering inappropriate activities and expenditures through an emphasis on investigations. IGs play a critical role in identifying mismanagement of scarce taxpayer dollars and could provide, based on the results of our evaluation, a valuable service for the CSB. Moreover, as we have stated in the past, we believe that all significant federal programs and entities should be subject to oversight by independent IGs.

See comment 17.

19. In response to CSB's point that Congress has "consistently and specifically rejected" assigning the DoT IG to serve as IG of the NTSB, we note that the DoT IG's assignment to and GAO annual audit requirements of the NTSB are recent actions—the DoT IG was

¹¹Testimony of Carolyn W. Merritt, Chairman and Chief Executive Officer, U.S. Chemical Safety and Hazard Investigation Board before the U.S. Senate Committee on Environment and Public Works, Subcommittee on Transportation Safety, Infrastructure Security, and Water Quality, July 10, 2007.

assigned to NTSB in 2000 and GAO assigned in late 2006. As stated in the briefing, we believe that all significant federal programs and entities should be subject to oversight by IGs who can provide sound, independent audits of all significant federal operations and activities. While we recognize that the Congress took specific actions it felt appropriate to ensure the independence of NTSB, we note that Congress has not taken such action with respect to CSB. Furthermore, IGs are independent from the agency they audit and investigate, and we believe the EPA IG has the requisite independence from CSB.

See comment 17 and 18.

- 20. As stated in the briefing, CSB's history of management problems warrants a level of independent oversight that may be difficult to achieve by an internal audit function. In addition, the limited staffing that would reasonably be allocated to this function at an agency of this size would lack the varied expertise needed to address these problems.
- 21. As stated in the briefing, we believe that all significant federal programs and entities should be subject to oversight by IGs who can provide sound, independent audits of all significant federal operations and activities. Given the management problems that our audit revealed, the need for independent IG oversight is especially pressing. We also note that these management problems would not be addressed by financial or information security audits.

See comment 17, 19 and 20.

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