PENSION BENEFIT GUARANTY CORPORATION

Redesigned Premium Structure Could Better Align Rates with Risk from Plan Sponsors
Why GAO Did This Study

At the end of fiscal year 2011, PBGC insured the pension benefits of 44 million U.S. workers, retirees, and beneficiaries in about 27,000 private defined benefit plans. PBGC’s 2011 net accumulated deficit of $26 billion, coupled with future risks posed by plan sponsors and their plans, threatens PBGC’s solvency. To help contain PBGC’s deficit, Congress recently passed legislation increasing PBGC premiums. Beyond simply increasing rates, the administration has proposed granting PBGC authority to redesign its premium structure to more fully reflect the risk of new claims. To better understand the issues involved, GAO was asked to examine (1) the options available to adjust premiums to improve PBGC’s financial condition; (2) the potential implications of adjusting premiums; and (3) the potential implementation challenges in moving to a more risk-based premium structure.

To conduct this work, GAO reviewed relevant legislation, analyzed PBGC premium data, and interviewed officials implementing other risk-based premium structures in this country and the United Kingdom, as well as numerous experts and plan sponsors reflecting a broad spectrum of perspectives on the topic.

What GAO Recommends

GAO suggests that Congress consider revising PBGC’s premium structure to better reflect the agency’s risk from individual plans and sponsors, and recommends that PBGC further develop its analyses of possible redesign options. PBGC agreed with our recommendation.

What GAO Found

Various options are available to make the Pension Benefit Guaranty Corporation’s (PBGC) premium structure more risk-based and better reflect the risk of future claims. Historically, PBGC’s premiums have not fully reflected the risks PBGC insures against—chiefly that a plan sponsor with an underfunded plan will become bankrupt, forcing the termination of the plan and imposing a claim on PBGC. PBGC’s current structure relies largely on a flat-rate premium that is based on the number of plan participants and that assesses rates equally per plan participant across all sponsors. PBGC also charges a variable-rate premium that is based on just one risk factor, plan underfunding. One available option is to further increase rates within this current structure; however, plan underfunding alone is a poor proxy for the risk of new claims. An alternative option is to redesign premiums to incorporate additional risk factors, such as a sponsor’s financial strength (as currently being explored by PBGC) or a plan’s investment strategy (as is currently done in the United Kingdom).

Moving to a more risk-based system would shift premium costs among sponsors. To analyze the potential effects of different premium structures, PBGC developed a model using data from a sample of about 2,700 plans. Under one possible option explored by PBGC that incorporated an additional risk factor for a sponsor’s financial health, financially healthier sponsors would tend to pay less and financially riskier sponsors more—as much as $257 more per participant, depending on their assigned risk level. Some pension experts and plan sponsors we spoke with raised concerns about this potential redistribution of costs. For example, some believe that plan terminations would increase. However, prior work from GAO and others indicates that other factors—including sponsor size, collective bargaining agreements, and overall plan cost—are more important in sponsors’ decisions to freeze their plans. Some pension experts and plan sponsors also noted that a more risk-based system could lead to premium increases during poor economic conditions when sponsors are least able to pay, and that it is inequitable for current sponsors to pay higher rates to address costs resulting from prior plan terminations. However, experts also made suggestions about how to address such concerns within a redesigned premium structure, such as by capping premium levels and averaging sponsors’ funding levels over multiple years to reduce volatility.

The process of redesigning and implementing a more risk-based premium structure poses potential data and administrative challenges. To help address these challenges, PBGC’s model could be further developed to evaluate the implications of incorporating additional risk factors, such as company financial health and plan investment mix. Such efforts could include identifying any additional data needs, as well as exploring the effects on sponsors, including any potentially disproportional hardships on smaller companies resulting from redistributing higher rates to riskier sponsors based on a redesigned structure. Although PBGC is uniquely situated to take on additional rate-setting responsibilities, if Congress were to relinquish some authority in this area, certain safeguards still may be required to help mitigate concerns about PBGC’s governance, oversight, and transparency. These safeguards could include additional congressional oversight, soliciting public feedback, and establishing an appeals process for sponsors who wish to challenge their assessment.
## Contents

### Letter

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Background</td>
<td>4</td>
</tr>
<tr>
<td>Various Options Are Available for More Risk-Based Premiums</td>
<td>13</td>
</tr>
<tr>
<td>Moving to a More Risk-Based Structure Shifts Premium Costs to Riskier Sponsors</td>
<td>26</td>
</tr>
<tr>
<td>Moving to a Risk-Based Premium Structure Poses Various Challenges</td>
<td>38</td>
</tr>
<tr>
<td>Conclusions</td>
<td>47</td>
</tr>
<tr>
<td>Matters for Congressional Consideration</td>
<td>49</td>
</tr>
<tr>
<td>Recommendation for Executive Action</td>
<td>50</td>
</tr>
<tr>
<td>Agency Comments and Our Evaluation</td>
<td>50</td>
</tr>
</tbody>
</table>

### Appendix I

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recent Legislation Related to the Pension Benefit Guaranty Corporation</td>
<td>53</td>
</tr>
</tbody>
</table>

### Appendix II

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>President's Fiscal Year 2013 Budget Proposal for PBGC</td>
<td>57</td>
</tr>
</tbody>
</table>

### Appendix III

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Further GAO Analyses of a Risk-Based Premium Option</td>
<td>61</td>
</tr>
</tbody>
</table>

### Appendix IV

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>The United Kingdom’s Pension Protection Fund’s Premium Structure</td>
<td>64</td>
</tr>
</tbody>
</table>

### Appendix V

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overview of Pension Benefit Guaranty Corporation’s Process for Calculating Its Deficit</td>
<td>68</td>
</tr>
</tbody>
</table>

### Appendix VI

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overview of Pension Benefit Guaranty Corporation’s Pension Insurance Modeling System</td>
<td>75</td>
</tr>
</tbody>
</table>

### Appendix VII

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plan Sponsors and Pension Experts Interviewed</td>
<td>82</td>
</tr>
</tbody>
</table>
Appendix VIII  History of Pension Benefit Guaranty Corporation Premiums for the Single-Employer Program, Fiscal Years 1974 to 2012 84

Appendix IX  Comments from Pension Benefit Guaranty Corporation 85

Appendix X  GAO Contact and Staff Acknowledgments 88

Tables

Table 1: Premium Rates under MAP-21 10
Table 2: PBGC’s Risk Exposure 11
Table 3: Various Estimates of PBGC’s Total Risk Exposure 12
Table 4: Rates under MAP-21 Compared to a Hypothetical Option to Adjust PBGC Premiums under the Current Structure 14
Table 5: Different Options to Incorporate Additional Risk Factors into Premiums 17
Table 6: Total Premium Rates per Participant (Flat + Variable) under a Hypothetical Risk-Based Option 20
Table 7: Hypothetical Risk-Based Option Premium Rates Compared to Rates in Plan Year 2010 and in Plan Year 2015 under MAP-21 27
Table 8: Options Suggested by Experts to Address PBGC’s Past Deficit Costs 37
Table 9: Preliminary Joint Committee on Taxation Score of Revenue Changes Caused by Surface Transportation Conference Report Related to Pension Funding Stabilization and PBGC Premium Provisions, Fiscal Years 2012-2022 56
Table 10: Proposed Budget Savings Listed under PBGC 58
Table 11: Increase in Premium Rates for the Single-Employer Program Estimated by PBGC for the President’s Fiscal Year 2013 Budget, Fiscal Years 2013-2022 59
Table 12: Distribution of Plans by Financial Health and Funded Status under a Hypothetical Risk-Based Option 61
Table 13: Number and Percentage of Participants with Premium Rate Changes under One Hypothetical Risk-Based Option 62
Table 14: Number and Percentage of Plans with Premium Rate Changes under One Hypothetical Risk-Based Option 63
Table 15: Components of the United Kingdom’s Pension Protection Fund’s Premium Formula, Plan Year 2012/13
65
Table 16: Main Components of Assets and Liabilities Included in PBGC’s Statements of Financial Condition
69
Table 17: PBGC Statements of Financial Condition for its Single-Employer and Multiemployer Programs, Fiscal Year 2011
73

Figures

Figure 1: PBGC’s Annual Premium Revenue Compared to New Claims for the Single-Employer Program, Fiscal Years 2000-2011
7
Figure 2: Percentage of Sample Sponsors with Premium Rate Changes under PBGC’s Hypothetical Risk-Based Option Compared with Estimated Rates in Plan Year 2015 under MAP-21
29
Figure 3: PBGC’s Surplus/Deficit for the Single-Employer Program, Fiscal Years 1980-2011
74
Figure 4: PBGC Actual and Projected Net Financial Position for the Single-Employer Program, Fiscal Years 2001-2020
80
### Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAMELS</td>
<td>capital, asset quality, management, earnings, liquidity, and sensitivity to market risk</td>
</tr>
<tr>
<td>CBO</td>
<td>Congressional Budget Office</td>
</tr>
<tr>
<td>DB</td>
<td>defined benefit</td>
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<tr>
<td>ERISA</td>
<td>Employee Retirement Income Security Act of 1974</td>
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<tr>
<td>FDIC</td>
<td>Federal Deposit Insurance Corporation</td>
</tr>
<tr>
<td>MAP-21</td>
<td>Moving Ahead for Progress in the 21st Century Act</td>
</tr>
<tr>
<td>PBGC</td>
<td>Pension Benefit Guaranty Corporation</td>
</tr>
<tr>
<td>PIMS</td>
<td>Pension Insurance Modeling System</td>
</tr>
<tr>
<td>PPA</td>
<td>Pension Protection Act of 2006</td>
</tr>
<tr>
<td>PPF</td>
<td>Pension Protection Fund</td>
</tr>
<tr>
<td>UK</td>
<td>United Kingdom</td>
</tr>
</tbody>
</table>

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November 7, 2012

The Honorable Tom Harkin
Chairman
Committee on Health, Education, Labor, and Pensions
United States Senate

Dear Mr. Chairman:

The Pension Benefit Guaranty Corporation (PBGC) is a government corporation established under the Employee Retirement Income Security Act of 1974 (ERISA)\(^1\) to protect the pension benefits of American workers. As of the end of fiscal year 2011, PBGC was responsible for insuring the benefits of nearly 44 million workers, retirees, and beneficiaries participating in about 27,000 private sector defined benefit (DB) plans, but faced an accumulated deficit of $26 billion. The bulk of this deficit ($23 billion) is attributable to PBGC’s single-employer program,\(^2\) reflecting the disparity between the value of future benefits owed to participants of terminated plans insured under this program and the funds available to pay for these benefits. PBGC’s deficit has increased over the last decade—mostly due to the termination of a few large, underfunded single-employer DB plans, as well as investment losses and declines in interest rates following the economic downturn. At the same time, PBGC’s financial condition has been adversely affected by long-standing structural challenges—including a steady decline in the number of private employers sponsoring DB plans and a statutory premium structure that does not adequately reflect the risk of future claims from plan terminations.\(^3\)

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\(^1\)Pub. L. No. 93-406, § 4002(a), 88 Stat. 829, 1004 (codified as amended at 29 U.S.C. § 1302(a)).

\(^2\)PBGC administers two separate insurance programs: a single-employer program and a multiemployer program. The single-employer program, comprised of about 25,000 DB plans, insures each plan established and maintained by one employer. The much smaller multiemployer program, comprised of about 1,500 plans, insures plans that are arranged through collective bargaining between one or more labor unions and a group of employers in a particular trade or industry. This report focuses on the challenges facing PBGC’s single-employer program.

\(^3\)Generally speaking, a claim occurs when a plan sponsor with an underfunded plan goes bankrupt.
Congress has periodically increased premium rates for plan sponsors within the current premium structure to help put the agency on a firmer financial footing, most recently in the Pension Protection Act of 2006 (PPA)\textsuperscript{4} and the Moving Ahead for Progress in the 21st Century Act (MAP-21), enacted July 6, 2012.\textsuperscript{5} Nevertheless, PBGC still faces a substantial deficit from past claims and exposure to risk of losses from future claims that could potentially lead to the agency’s insolvency.

One proposal to help address the agency’s deficit—specified in the President’s fiscal year 2013 budget—would give PBGC the authority to move to a more risk-based premium structure for plan sponsors participating in the single-employer program. To gain a better understanding of the advantages and disadvantages of such a proposal, you asked us to examine (1) the options that are available to adjust premiums to improve PBGC’s long-term financial condition, (2) the potential implications of these options for plan sponsors and participants, and (3) the potential implementation challenges in moving to a risk-based premium structure.

To determine what options are available to adjust PBGC’s premium structure to improve its future financial condition, we first reviewed relevant federal laws pertaining to PBGC’s current premiums, including increases to premiums made under MAP-21 (see app. I), and PBGC policies for collecting premiums for the single-employer program. We then reviewed the President’s proposal for more risk-based premiums (see app. II), as well as various academic and policy papers that suggest other approaches that might be considered in redesigning PBGC’s premium structure. We also obtained data from a model PBGC developed to illustrate different premium options. We assessed the validity of the model’s formulas and assessed the reliability of the model’s data set of 2,699 plans. We used the model’s data set, which represented 81 percent of the DB population in plan year 2010, to conduct further analyses of


\textsuperscript{5}Pub. L. No. 112-141, § 40221, 126 Stat. 404, 850-52 (2012). Although primarily about funding highways, MAP-21 also included several pension-related provisions, requiring changes to the funding rules for DB plan sponsors, strengthening PBGC governance practices, as well as increasing premium rates for DB plans covered by PBGC’s single-employer and multiemployer insurance programs. Pub. L. No. 112-141, § 40221, 126 Stat. 404, 846-59 (2012). (See app. I for more information on the pension-related provisions included in MAP-21.)
various options (see app. III). In addition, we interviewed PBGC officials and other federal officials from the Department of Commerce, Federal Deposit Insurance Corporation (FDIC), the Department of Labor (Labor), and the Department of the Treasury about these options, as well as pension officials from the United Kingdom’s (UK) Pension Protection Fund (PPF)—an agency that provides benefit insurance to participants in DB plans and charges risk-based premiums to plans sponsors in the UK (see app. IV). To better understand how PBGC determines its risk exposure for future claims and losses, we obtained information about how PBGC calculates its deficit (see app. V) and how PBGC uses the Pension Insurance Modeling System (PIMS), one of the modeling tools the agency uses to make estimates of its future financial condition and evaluate premium options (see app. VI). While PBGC’s Inspector General found problems with some detailed data generated by PIMS, we reviewed the PIMS data provided to us and conducted a meeting with PBGC officials to discuss the reliability of these data. We determined that the PIMS data provided to us and used by PBGC in its 2010 exposure report were sufficiently reliable to provide information on the approximate magnitude of PBGC’s future financial condition and to generally understand the mechanics of premium options.

To obtain information about the potential implications of different premium options for plan sponsors and participants and the potential implementation challenges of moving to a risk-based premium structure, we interviewed a small judgmental sample of nine plan sponsors, selected to reflect an array of characteristics including plan size, sponsor financial condition, and union involvement. We also conducted interviews with a broad range of pension experts including academics, actuaries, business organizations, and labor officials. (See app. VII for a list of plan sponsors and organizations we contacted.)

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6We did not conduct independent legal analysis to verify the information about PPF’s premium framework, but rather relied on a review of publicly available PPF documents and discussions with PPF officials. See appendix IV for a description of the risk factors PPF has incorporated into its premium structure in the UK.

7In May 2012, PBGC’s Inspector General released a report finding that PIMS lacks key internal controls to ensure the integrity of the model’s reported results. See PBGC Office of Inspector General, Ensuring the Integrity of Policy Research and Analysis Department’s Actuarial Calculations, PA-12-87 (Washington, D.C.: May 2012).

We conducted this performance audit between July 2011 and November 2012 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 the evidence obtained provides a reasonable basis for our findings and conclusions based on our audit objectives.

Background

PBGC was established under ERISA, in part, to insure the pension benefits of participants in qualified DB plans and pay participants up to certain statutory limits should their plans be terminated with insufficient funds.\(^9\) DB plans provide a benefit that is determined by a formula based on various factors specified in the plan, such as an employee’s salary, years of service, and age at retirement.

PBGC has a three-member board of directors, consisting of the Secretaries of the Departments of Commerce, Labor, and the Treasury, that is charged with providing policy direction and oversight of PBGC’s finances and operations. PBGC’s Director is appointed by the President and subject to Senate confirmation.\(^10\) Consistent with our previous

\(^9\) 29 U.S.C. §§ 1302(a)(2) and 1361. The guaranteed benefit limits for participants in single-employer plans cannot exceed the statutory maximum, adjusted annually, at the time the plan terminates. For 2012, the maximum is $54,000 per year for a person retiring at age 65 with no survivor benefit (that is, a single-life annuity). The maximum is lower for those retiring under age 65 or with a survivor benefit. 29 U.S.C. § 1322(b)(3); 29 C.F.R. § 4022.23 (2012). Other guaranteed benefit limits for participants in single-employer plans include the phase-in limit and accrued-at-normal limit. Under the phase-in limit, for any benefit increase implemented through a plan amendment that has been in effect for less than 5 years, only a pro-rata portion can be guaranteed. 29 U.S.C. § 1322(b)(1) and (7); 29 C.F.R. § 4022.25 (2012). Under the accrued-at-normal limit, the monthly guaranteed benefit cannot be greater than the monthly benefit available at the plan’s normal retirement age provided as a straight-life annuity (that is, a periodic payment for the life of the retiree), with no additional payments to survivors. 29 C.F.R. § 4022.21 (2012).

\(^10\) 29 U.S.C. § 1302(d). Prior to the enactment of the PPA, ERISA charged the Secretary of Labor, as the chair of PBGC’s board, with administering PBGC. The Secretary has, in turn, historically delegated the responsibility for administering PBGC to an executive director. Since the enactment of PPA, the director has replaced the chair of the board as PBGC administrator. § 411(a), 120 Stat. 935.
recommendations concerning challenges to PBGC’s governance,\textsuperscript{11} the recently enacted MAP-21 included numerous provisions to strengthen PBGC’s board and governance structure overall (see app. I).\textsuperscript{12}

PBGC administers two separate insurance programs: a single-employer program and a multiemployer program\textsuperscript{13} and is charged with encouraging continuation of private pension plans, providing for timely and uninterrupted payment of participants’ pension benefits (up to the insured limits) should plans be terminated with insufficient funds, and maintaining premiums established under the statute at the lowest level consistent with its obligations under ERISA.\textsuperscript{14} PBGC-insured DB plans have been in decline since the 1980s. As of 2011, PBGC insured about 25,500 single-employer DB plans covering about 34 million participants, down from nearly 92,000 plans in 1990. During this period, many sponsors have voluntarily terminated their plans as “standard” terminations. Standard terminations occur when sponsors terminate fully funded plans by purchasing a group annuity contract from an insurance company, under which the insurance company agrees to pay all accrued benefits, or by

\textsuperscript{11}We have previously reported concerns regarding PBGC’s board, including limitations in its ability to provide policy direction and oversight to PBGC, and the need for the implementation of certain types of reporting requirements—such as congressional notifications and reporting protocols for advisory committees—to ensure effective communication between PBGC and Congress. See GAO, Pension Benefit Guaranty Corporation: Governance Structure Needs Improvements to Ensure Policy Direction and Oversight, GAO-07-808 (Washington, D.C.: July 6, 2007) and Pension Benefit Guaranty Corporation: Improvements Needed to Strengthen Governance Structure and Strategic Management, GAO-11-182T (Washington, D.C.: Dec. 1, 2010).

\textsuperscript{12}\$ 40231, 126 Stat.853-56.

\textsuperscript{13}29 U.S.C. §§ 1322 and 1322a. The single-employer program insures plans established and maintained by one employer. Single-employer plans can be established unilaterally by the sponsor or through a collective bargaining agreement with a labor union. The multiemployer program insures plans that are arranged through collective bargaining between a labor union and a group of employers in a particular trade or industry. Management and labor representatives must jointly govern multiemployer plans. 29 U.S.C. § 1002(37).

\textsuperscript{14}29 U.S.C. § 1302(a).
paying lump-sum benefits to participants if permissible.\textsuperscript{15} An event preceding at least some of these terminations was a so-called plan “freeze”—an amendment to the plan to limit some or all future pension accruals for some or all plan participants.\textsuperscript{16}

### PBGC Funding and Deficit

To finance its operations, PBGC has three key sources of funds: (1) pension assets obtained from underfunded, terminated single-employer plans which it takes over;\textsuperscript{17} (2) premiums paid by both single-employer and multiemployer plan sponsors; and (3) investment income and net gains and losses generated from the investment of these funds.\textsuperscript{18} Figure 1 shows that the annual amount of PBGC’s new claims in the single-employer program has fluctuated dramatically during the last 12 years—sometimes exceeding the amount of premiums and thereby contributing

\textsuperscript{15}29 U.S.C. § 1341(b). If the sponsor of a single-employer plan meets the statutory requirements for financial distress and the plan does not have sufficient assets to pay promised (“vested accrued”) benefits, the plan cannot be terminated as a standard termination. Instead, the plan will be terminated as distress or involuntary termination, and PBGC will likely become the plan’s trustee, assuming responsibility for paying benefits to participants as they become due, up to the guaranteed benefit limits. 29 U.S.C. § 1341(c). PBGC may initiate an “involuntary” termination if a plan has not met minimum funding standards, a plan will be unable to pay benefits when due, a reportable event has occurred, or the possible long-run loss to PBGC with respect to a plan may reasonably be expected to increase if the plan is not terminated. 29 U.S.C. § 1342(a).

\textsuperscript{16}For example, a pension plan may close to new participants, or a plan may opt to prohibit existing participants from earning pension benefits in the future.

\textsuperscript{17}The PPA included provisions to modify funding rules and increase premiums for sponsors of single-employer plans. §§ 101, 102, 111, and 112, and 401 and 405, 120 Stat. 784-809, 820-846, and 922 and 928-29. However, Congress has provided sponsors with funding relief in the last few years and revised some provisions to help mitigate the effects of the recent economic downturn. Worker, Retiree, and Employer Recovery Act of 2008, Pub. L. No. 110-458, §§ 101, 102, 121 and 122, 122 Stat. 5092, 5093-5103, 5113-14, Preservation of Access to Care for Medicare Beneficiaries and Pension Relief Act of 2010, Pub. L. No. 111-192, tit. II, 124 Stat.1280, 1283-1306, and MAP-21, § 40221, 126 Stat. 850-52.

\textsuperscript{18}29 U.S.C. § 1305(b). Throughout this report we refer to all funds generated through the investment of assets as investment income. For further discussion of PBGC’s investment strategy; see GAO, Pension Benefit Guaranty Corporation: Asset Management Needs Better Stewardship, GAO-11-271 (Washington, D.C.: June 30, 2011).
to persistent deficits.\textsuperscript{19} In contrast, as illustrated in figure 1, the amount of premium revenue PBGC has collected from plans in the single-employer program has been much less volatile, growing fairly steadily over the last 10 years from $967 million in fiscal year 2002 (adjusted for inflation) to nearly $2.1 billion in fiscal year 2011.

\textbf{Figure 1: PBGC’s Annual Premium Revenue Compared to New Claims for the Single-Employer Program, Fiscal Years 2000-2011}

<table>
<thead>
<tr>
<th>Fiscal year</th>
<th>Premium revenue</th>
<th>New claims</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000\textsuperscript{a}</td>
<td>1</td>
<td>1</td>
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<tr>
<td>2001</td>
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<tr>
<td>2011</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
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Source: GAO analysis of PBGC data.

Note: Data adjusted for inflation.

\textsuperscript{a}New claims for fiscal year 2000 were $110 million.

\textsuperscript{19}PBGC officials noted that where present values are meaningful, such as in calculating PBGC’s deficit, it is important to consider PBGC’s current financial position in determining the adequacy of future premiums. In addition, they also noted that the adequacy of any premium structure is highly dependent on investment income that (a) can improve PBGC’s financial position over long periods if PBGC’s assets are expected to earn more than the discount rate on its liabilities, as has been the case; (b) can and has created significant gains and losses in PBGC’s financial position due to market fluctuations and the impact on PBGC’s and insured plan’s asset returns; and (c) cannot reduce the growth of the existing deficit to the extent that liabilities exceed assets.
As of the end of fiscal year 2011, PBGC’s single-employer program had an accumulated deficit of just over $23 billion, which is the result of comparing the value of its assets with the value of its liabilities for claims incurred to date.\textsuperscript{20} Although there are differing views about the appropriateness of the assumptions PBGC uses in calculating its deficit,\textsuperscript{21} there is general agreement that failure to address various structural challenges could have consequences for both PBGC’s long-term financial condition and the health of the DB system. Market performance and low interest rates affect PBGC’s financial position, but so, too, have various structural challenges, including historically inadequate plan funding requirements and premium levels for private DB plan sponsors. To help address these structural challenges, PPA attempted to strengthen plan funding requirements, but these changes were modified or postponed due to the economic downturn, resulting in reduced funding for plans. In addition, MAP-21 included provisions to increase premium rates effective beginning in 2013, but left the current premium structure intact.

PBGC has reported a net accumulated deficit since 2002. As a result of these deficits and structural issues impeding PBGC’s ability to adequately fund its insurance programs, including the likelihood of large, unfunded pension plan terminations, we have designated PBGC’s single-employer program as high risk since 2003.\textsuperscript{22} PBGC receives no funds from general tax revenue. However, if at some point in the future the agency were to exhaust all of its assets and become insolvent, its commitments would not

\textsuperscript{20}The value of liabilities is equal to the actuarial present value of projected future benefit payments, which is determined by use of certain assumptions about interest rates, among other things, to adjust the amount of future benefit payments to reflect the time value of money (by discounting) and the probability of payment (by means of decrements, such as for death or retirement). PBGC also includes the estimated liabilities in excess of assets for new claims that it deems probable.

\textsuperscript{21}See appendix V for a more detailed description of how PBGC calculates its deficit.

\textsuperscript{22}GAO, Pension Benefit Guaranty Corporation: Long-Term Vulnerabilities Warrant “High Risk”, GAO-03-1050SP (Washington, D.C.: July 23, 2003); High-Risk Series: An Update, GAO-09-271 (Washington, D.C.: January 2009); and High-Risk Series: An Update, GAO-11-278 (Washington, D.C.: February 2011), 150-153. Although we designated PBGC’s single-employer program as a “high-risk” program in 2003, we first designated PBGC as a high-risk area in 1990, citing taxpayers’ exposure to potential losses from the termination of large, underfunded plans. In 1995, we removed PBGC from our list of high-risk areas due to congressional and agency actions that we believed would reduce PBGC’s exposure to losses. In 2009, we also designated the multiemployer program as high risk.
be backed by the full faith and credit of the federal government, and the agency would only have premium revenue to rely on to pay its benefit obligations. As a consequence, PBGC could be forced to dramatically cut benefit payments to participants, seek federal assistance, or raise premiums significantly to meet its benefit commitments. In previous reports on PBGC, we have recommended that PBGC’s premium structure be re-examined to explore whether premiums could better reflect the risk posed by various plans to the pension system.

### PBGC’s Current Premium Structure

Under the current premium structure for its single-employer program, PBGC collects from sponsors a per participant flat-rate premium and a variable-rate premium that is based on a plan’s level of underfunding. PBGC also collects a termination premium from sponsors of single-employer plans that terminate their plans under certain criteria. While conceptually, PBGC uses the flat-rate premium as a proxy for exposure based on the number of participants, to the extent that the premium structure relies on flat-rate premiums, sponsors with greater numbers of participants pay more toward the cost of covering risk than sponsors with smaller numbers of participants, regardless of the ages of the participants, the average level of plan benefits, or other risk-related differences. To the extent that the premium structure relies on variable-rate premiums, sponsors with more underfunded plans pay more toward the cost of covering risk than sponsors with better funded plans.

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23Historically under ERISA, PBGC was granted a $100 million line of credit from the federal government. ERISA, § 4005(c), 88 Stat. 1010. Under MAP-21, enacted in July 2012, this line of credit was discontinued. § 40234, 126 Stat. 858.


25The nearly $2.1 billion in premium revenue in fiscal year 2011 consisted of $1.1 billion in flat-rate premiums and $929 million in variable-rate premiums.

regardless of the riskiness of the plan assets or the financial health of the plan sponsor. As a result, there is concern that the current statutory premium structure does not allocate premiums to match the variation in risk posed by different plan sponsors. In fact, the heavy focus on the flat-rate premium tends to create a cross-subsidy paid by financially healthy sponsors to cover the risks posed by sponsors that are less financially strong.

For plan years beginning in 2006, the base flat rate was $30 per participant, increasing with inflation adjustments to $35 for 2012, while the base variable rate remained at $9 for every $1,000 of plan underfunding. Under provisions enacted in MAP-21, rates were increased within this same premium structure. The flat-rate premium begins to rise in 2013, and then the variable-rate premium begins to rise in 2014. Beginning in 2013, the variable-rate premium is also subject to a $400 per participant limit (see table 1).²⁷

Table 1: Premium Rates under MAP-21

<table>
<thead>
<tr>
<th>Rate type (per participant)</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat rate</td>
<td>$35²ᵃ</td>
<td>$35²ᵃ</td>
<td>$42</td>
<td>$49</td>
<td>$49 or more based on indexing²ᵇ</td>
</tr>
<tr>
<td>Variable rate (per $1,000 of unfunded vested benefits)</td>
<td>$9</td>
<td>$9</td>
<td>$9 or more based on indexing²ᶜ</td>
<td>$13 or more based on indexing²ᶜ</td>
<td>$18 or more based on indexing²ᶜ</td>
</tr>
</tbody>
</table>


²ᵃThis reflects the base rate of $30 adjusted for inflation.

²ᵇAfter 2014, rates will be indexed based on increases in the national average wage index, as determined by the Social Security Administration, and then rounded to the nearest whole dollar.

²ᶜThough calculated based on the amount of underfunding, the variable rate is subject to a per participant limit of $400 for 2013, with indexing based on increases in the national average wage index, as determined by the Social Security Administration. In addition, MAP-21 provided for an additional $4 increase in plan year 2014, plus an additional $5 increase in plan year 2015.

Historically, PBGC’s premiums have not fully reflected the risks PBGC insures against—chiefly that a plan sponsor with an underfunded plan will become bankrupt, forcing the termination of the plan and imposing a claim on PBGC.\textsuperscript{28} Risks related to potential new claims depend largely on plan sponsor behavior, while PBGC’s risks post-termination depend largely on the agency’s own investment strategy, among other things (see table 2).

### Table 2: PBGC’s Risk Exposure

<table>
<thead>
<tr>
<th>Type of risk</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>New claims risk</td>
<td>PBGC exposure is based on several factors:</td>
</tr>
<tr>
<td></td>
<td>\begin{itemize} \item plan sponsor behavior with regard to maintaining plans, funding plans, and investment strategy (allocation of plan assets) \item size of new claims \item economic conditions, including the level of bankruptcies, market returns, and interest rates \item adequacy of premium levels, either set by Congress or by PBGC if granted such authority \item impact of plan freezes \item deterioration in performance of particular industries \item participant longevity improvements greater than expected \end{itemize}</td>
</tr>
<tr>
<td>PBGC financial risk</td>
<td>PBGC exposure is based on several factors:</td>
</tr>
<tr>
<td></td>
<td>\begin{itemize} \item PBGC’s investment strategy \item market returns and interest rate movements \item participant longevity improvements greater than expected \end{itemize}</td>
</tr>
</tbody>
</table>

Source: GAO analysis of PBGC’s 2010 exposure report.

PBGC has estimated that if premium rates were kept at fiscal year 2011 levels,\textsuperscript{29} total premium revenue from single-employer plans over the next 10 years would be less than the amount of expected new claims. In addition, many pension experts and the administration believe that PBGC premiums have been much lower than what a private financial institution would charge for insuring the same risk and are insufficient for PBGC to meet its long-term obligations. Indeed, one study estimated that the overall premiums collected by PBGC are equal to about 50 percent of

\textsuperscript{28}See appendix VIII for a summary of historical PBGC premium rates, 1974 to 2012.

\textsuperscript{29}For the purpose of this projection, PBGC assumed that the flat rate would increase each year over the current rate by approximately $1 to account for an annual increase in the wage growth index and that the variable rate would remain the same as current law for the period.
what a private insurer would charge because its premiums do not adequately account for risks. To set premiums at a level sufficient to cover PBGC’s total risk exposure would require an analysis of total risk. Several methods have been used to estimate PBGC’s total risk exposure with widely varying results, as described in table 3.

Table 3: Various Estimates of PBGC’s Total Risk Exposure

<table>
<thead>
<tr>
<th>Estimation method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit ratings of sponsors with underfunded plans</td>
<td>Estimate risk exposure from underfunding by plan sponsors whose credit ratings are below investment grade or that meet one or more financial distress criteria. PBGC already performs this analysis by classifying these sponsors’ underfunded plans as reasonably possible terminations.</td>
</tr>
<tr>
<td>Market value of insurance</td>
<td>Estimate risk exposure from the price a private insurer would charge. In a 2005 report, the Congressional Budget Office (CBO) estimated PBGC’s risk exposure using this method based on the price that a private insurer would charge to accept the insurance obligations of PBGC for all plans that terminate over a given time period.</td>
</tr>
<tr>
<td>Total unfunded liabilities</td>
<td>Estimate PBGC’s risk exposure by calculating the agency’s total potential liabilities from underfunding in all PBGC-insured plans, whether these unfunded liabilities are vested or not, and estimate the risk associated with those liabilities.</td>
</tr>
</tbody>
</table>

Source: GAO analysis of reports and data related to PBGC’s total risk exposure.

Each method provides quantifiable insight into the extent of PBGC’s risk exposure. For example, in fiscal year 2011, PBGC estimated that its risk exposure to reasonably possible terminations in its single-employer program totaled approximately $227 billion, an increase from $170 billion the previous year. Further, PBGC estimated that the total unfunded liabilities in all PBGC-insured plans were $415 billion in fiscal year 2010. CBO estimated that in 2005, the present value of PBGC’s net costs for DB pension insurance for single-employer plans over 10 years was about $87 billion. Total costs for the insurance for 15- and 20-year time horizons were $119 billion and $142 billion, respectively.


31PBGC’s estimated total unfunded liabilities are based on all plan liabilities, whether vested or not.

In addition, the CBO has proffered several methods for establishing the target level of premium revenue to be generated. One possibility is to adopt what CBO describes as an “actuarially fair premium structure”—that is, one that would equate the present value of expected premium revenues with the present value of expected costs to PBGC. Notably, based on CBO’s 2005 analysis, a uniform risk premium—one that increases both the flat- and variable-rate portions of current-law premiums by a fixed proportion\(^{33}\)—would yield premium charges that were 6.5 times larger than rates in effect in 2005, with a flat rate of $123.50 per participant per year and a variable rate of $58.50 per $1,000 of underfunding. This increase would have made rates comparable to premiums charged in a private insurance market to cover PBGC’s insurance obligations at that time.

Various options are available to make PBGC’s statutory premium structure more risk-based to better reflect the risk of future claims and improve PBGC’s financial condition. The variable-rate component of the premium reflects plan and sponsor risk to some extent, but has been based solely on just one risk factor, plan underfunding. There are numerous options available for incorporating additional risk factors into the variable rate to account for greater levels of risk posed to PBGC by certain plans and sponsors, as is done by other insurance agencies in the United States and abroad. For example, the FDIC, which provides deposits insurance, has used a risk-based premium system since 1993. In addition, the UK’s pension insurer determines its premiums based on a risk factor for a plan’s asset investment mix, as well as the sponsor’s financial strength.

Even within the current structure, rates could be adjusted to become more risk-based and help PBGC to increase its revenues. Historically, the bulk of premium revenue has been generated from the flat-rate component of the premium (tied to the number of plan participants) that assesses rates equally per capita across all sponsors regardless of risk, rather than the variable-rate component that reflects risk based on level of plan underfunding. By increasing the proportion of revenues generated from the variable rate and increasing rates overall—such as provided

\(^{33}\)The uniform premium also does not vary according to sponsor or plan characteristics.
under MAP-21\textsuperscript{34}—higher premium costs are shifted more to sponsors with plans that are more underfunded (see table 4). Such changes, even under the current structure, make premiums more risk-based than in the past, and could help reduce the growth of PBGC’s deficit while providing greater incentive to sponsors to fully fund their plans.

### Table 4: Rates under MAP-21 Compared to a Hypothetical Option to Adjust PBGC Premiums under the Current Structure

<table>
<thead>
<tr>
<th>Premium option</th>
<th>Flat rate per participant</th>
<th>Variable rate per $1000 of plan underfunding</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>New premium structure provided for in the Moving Ahead for Progress in the 21st Century Act\textsuperscript{a}</td>
<td>$49 by plan year 2014 indexed thereafter</td>
<td>$18 by plan year 2015 indexed thereafter</td>
<td>• Phase-in of rate increase&lt;br&gt;• Revenue estimated over 10 years&lt;br&gt;• The variable rate is limited to $400 per participant for plan year 2013 with indexing thereafter&lt;br&gt;• $9 billion in additional premium revenue generated\textsuperscript{b}&lt;br&gt;• 58% of additional premium revenue attributable to increase in flat rate&lt;br&gt;• 42% of additional premium revenue attributable to increase in variable rate</td>
</tr>
<tr>
<td>Option to increase rates under the current structure\textsuperscript{c}</td>
<td>Flat rate increased so that the increase to total premium revenue is evenly distributed between the flat rate and variable rate</td>
<td>Variable rate increased so that the increase to total premium revenue is evenly distributed between the flat rate and variable rate</td>
<td>• No phase-in of rate increase&lt;br&gt;• Revenue estimated on annual basis over 8 years&lt;br&gt;• $16 billion in additional premium revenue generated ($2 billion annually)\textsuperscript{d}&lt;br&gt;• 50% of additional premium revenue attributable to the flat rate&lt;br&gt;• 50% of additional premium revenue attributable to the variable rate</td>
</tr>
</tbody>
</table>

Source: GAO analysis of documents related to PBGC premiums.

\textsuperscript{a}MAP-21, § 40221, 126 Stat. 405, 850-852 (2012).

\textsuperscript{b}Revenue increase compared to plan year 2012 rates.

\textsuperscript{c}For this option, rates were generated by PBGC using a hypothetical model created to explore the effects of different premium options on rates and premium revenue. PBGC’s hypothetical model used plan year 2010 data from PBGC’s premium database and did not incorporate any projections about future levels of plan funding or participant counts. This hypothetical option increases rates within the current premium structure without incorporating additional risk factors.

\textsuperscript{d}Revenue increase compared with estimates under plan year 2010 rates.

\textsuperscript{34}On July 6, 2012, the President signed into law MAP-21, which included provisions calling for rate increases within PBGC’s current premium structure for all single-employer plan sponsors insured by PBGC. § 40221, 126 Stat. 446-448 (2012). The act also provided for rate increases for all multiemployer plan sponsors insured by PBGC. Pub. L. No. 112-141, § 40222, 126 Stat. 852-53.
To explore this option, PBGC developed a model to illustrate the various ways premiums could be adjusted to meet different revenue targets over varying lengths of time by increasing either the flat rate or the variable rate, or both, by certain percentages. The model used standard quantitative techniques to show how different premium options would affect rates and generate premium revenue over time without a rate phase-in. PBGC officials stressed that the model did not use PIMS for its calculations, and that the model is purely hypothetical and not intended as a policy proposal. However, by way of illustration, PBGC used the model to generate one scenario whereby the additional revenue would be obtained in equal amounts from increases in both the flat and variable rates over 8 years to meet the administration’s proposed $16 billion premium revenue target. Under this scenario, PBGC estimated that to reach the annual $2 billion revenue target in the first year without a rate phase-in, premium revenue from both the flat rate and variable rate would have to increase by 77 and 76 percent, respectively. We estimated that under this option, the flat rate would increase to $62 per participant and the variable rate to nearly $16 per $1,000 of plan underfunding. Under this option, 50 percent of the premium revenue increase is attributable to the variable rate compared to 42 percent under MAP-21 rates. However, the only risk factor incorporated into the variable rate under both MAP-21 and PBGC’s model scenario described above is plan underfunding, and as discussed further below, PBGC has concluded from its analyses that plan underfunding is a poor proxy for the risk of a new claim.

In constructing its model, PBGC selected a sample of plans from its 2010 premium database that had readily available data regarding either the sponsor’s credit rating or Dun & Bradstreet score. The resulting sample included 1,114 sponsors of 2,699 DB plans covering 27.5 million participants. The model covered 81 percent of all PBGC-insured participants (33.8 million) in 2010. We validated the model by reviewing the formulas PBGC used to analyze the 2010 premium data and assessed the reliability of the data used in the model. Where we found problems with formulas or other points of information used in the model’s analysis, we discussed these issues with PBGC officials and made corrections to their analysis.

For the purpose of its analysis in the premium model, PBGC estimated a combined flat and variable rate on a per participant basis for the hypothetical option to increase rates under the current structure in order to make comparisons to per participant rates under other options. Under the hypothetical option to increase rates under the current structure, PBGC estimated that the combined per participant rate (i.e., the flat rate, plus the amount collected from the variable rate divided by the number of plan participants) ranged from $60 to $4,367. By way of comparison, PBGC calculated that combined premium rates under the structure in place for fiscal year 2010 ranged from $35 per participant to $2,481.
Other premium options could more fully take into account the agency’s exposure to the risk of new claims by incorporating other risk factors. Specifically, PBGC’s risk could be better mitigated through alternative premium options that incorporate other risk factors into the variable rate to more fully take into account the agency’s exposure to the risk of future losses. Because the variable-rate premium is currently based solely on plan underfunding, it does not capture the agency’s overall risk as well as it could if additional risk factors were also taken into consideration, such as a plan’s investment strategies, benefit structure and benefit level, demographic profile, or the plan sponsor’s financial strength. With congressional action, these additional risk factors could be incorporated into PBGC’s rates, providing proportionally greater amounts of revenue from plan sponsors posing greater risk to the agency, and better alignment with the continuum of risk facing the agency.

PBGC has conducted analyses showing that measures of underfunding are poor predictors of plan termination. In these analyses, PBGC reviewed funding levels for plans that had terminated from fiscal years 2009 to 2011, and found the average termination funding level was about 54 percent on the date of termination. For the year previous to termination, the average funding level measurement on which the variable-rate premium was calculated for these plans was about 84 percent. Because of the differences found in a plan’s funding-level measurements, PBGC officials believe that measures of a sponsor’s financial strength—determined using credit scores or Dun & Bradstreet scores—are better predictors of whether plans terminate than are measures of underfunding.

Much like premiums set by insurance companies, PBGC premium rates could be set based on individual risk profiles for sponsors and their plans. Such incorporation of additional risk factors into premiums could help PBGC to better manage risk by raising proportionally greater amounts of revenue.


38 Data for fiscal year 2011 were through April 2011.

39 Two pension experts we spoke with believe that PBGC is not a true insurance program, since it is statutorily required to insure all DB plans. These experts instead believe that this makes PBGC more of a social protection program, providing participants a social safety net by obligating the payment of pension benefits up to certain limits for underfunded plans that terminate.
revenue from financially riskier sponsors whose plans are underfunded, and provide an incentive to sponsors to fully fund their plans and reduce other risk factors under their control, such as through less risky plan asset allocation. In addition, as with any premium structure, risk-based premiums could be designed to address only the risk of new costs that PBGC will incur from future claims, or they could be designed to help address PBGC’s risk of future insolvency, which also reflects deficit costs from past terminations. Possible approaches for incorporating additional risk factors into PBGC’s premium structure are described further below, along with information on the approach used by the FDIC for banking institutions and by PPF for pension plans in the UK (see table 5).

Table 5: Different Options to Incorporate Additional Risk Factors into Premiums

<table>
<thead>
<tr>
<th>Premium option</th>
<th>Flat rate</th>
<th>Variable rate with additional risk factors</th>
<th>Description</th>
</tr>
</thead>
</table>
| Option to incorporate additional risk factor for sponsor financial health$^a$ | $44 per participant | Variable rate incorporates additional risk factor for sponsor financial health | • No phase-in of rate increase  
• Variable rate calculated on a per participant basis  
• Rates capped at four times plan year 2010 rates on a per participant basis  
• Revenue estimated on annual basis over 8 years  
• $16 billion in additional premium revenue generated ($2 billion annually)$^b$  
• 16% of additional premium revenue attributable to the flat rate$^a$  
• 84% of additional premium revenue attributable to the variable rate$^a$ |
| Option to use different methods to calculate premiums based on size of institution (FDIC) | Not applicable | Risk premium incorporates risk factors for size and financial strength | • Different methods used to calculate premiums based on the size of the institution  
• Premiums are generally set based on a bank’s aggregate assets (funding level) and supervisory rating (financial strength)  
• Premiums based on bank placement into one of four risk categories  
• Premiums range set to meet annual revenue target needed to insure against identified risk  
• Premium rates can change quarterly through monitoring of bank capitalization and supervisory data |
### Modeling More Risk-Based Options under the President's Proposal

The President's 2013 budget proposes to reform how PBGC premiums are determined by giving the PBGC board the authority to take into account the risks that different sponsors pose to their retirees and to PBGC. The President's budget proposes raising $16 billion in additional premium revenue over a 10-year period, from 2013 to 2022, and would require a year of study and public comment before any implementation and the gradual phasing in of any increases due to changes in the premium structure. To reach this target over this period, the administration proposed limiting the premium increase to $4 billion in additional flat-rate premiums and $12 billion in additional variable-rate premiums. By way of comparison, the increases under MAP-21 are estimated to generate $5.1 billion from the flat rate and $3.8 billion from the variable rate over the same period. By relying more heavily on variable-rate premiums than under MAP-21, the President's proposal would result in sponsors posing greater risk to PBGC paying higher premiums, and sponsors posing less risk to PBGC paying lower premiums.

PBGC used its model to explore one possible approach to incorporating an additional risk factor into the variable-rate premium and illustrate how

<table>
<thead>
<tr>
<th>Premium option</th>
<th>Flat rate</th>
<th>Variable rate with additional risk factors</th>
<th>Description</th>
</tr>
</thead>
</table>
| Option to incorporate additional risk factor for plan investment strategy (UK’s PPF) | Plan-based premium (comparable to PBGC flat-rate premium) targeted to meet revenue estimate | Risk-based premium (comparable to PBGC variable-rate premium) incorporates risk factors for plan underfunding, sponsor insololvency, and plan asset investment risk | • Both a plan-based (flat) and risk-based premium charged to sponsors  
• Premium rates set for 3 years  
• Scaling factor used to adjust risk-based premiums to meet 3-year revenue target  
• 10% of premium revenue attributable to plan-based premium and 90% attributable to risk-based premium  
• Smoothing techniques used to adjust premium rates to account for adverse economic conditions |

Source: GAO analysis of documents related to PBGC, FDIC, and PPF premiums.

\(^a\)For this option, rates were generated by PBGC using a hypothetical model created to explore the effects of different premium options on rates and premium revenue. PBGC's hypothetical model used plan year 2010 data from PBGC's premium database and did not incorporate any projections about future levels of plan funding or participant counts.

\(^b\)Revenue increase compared with estimates under plan year 2010 rates.

\(^c\)These percentages are for revenue increases attributable to the flat and variable rate before applying the President’s proposed cap of four times the per participant rate for plan year 2010.

\(^d\)PPF refers to plans as schemes and premiums as levies. For the purpose of this report, we continue to use plans and premiums when discussing PPF’s premium framework.
the mechanics of a more risk-based option might work. Under this option, the financial health of a plan sponsor would be taken into account in tandem with the funded level of a plan to enhance the extent to which risk is accounted for in the premium structure. To accomplish this, PBGC calculated the variable-rate premium for each plan based on a combination of both plan underfunding and sponsor financial health, to meet the President's $16 billion premium revenue target. For the financial health factor, PBGC assigned a measure on a scale of 1 to 5 based on the lower of the sponsor's Standard & Poor's or Moody's credit ratings, or, if credit ratings were unavailable, a sponsor's Dun & Bradstreet credit risk ranking. PBGC then combined these scores with scores based on the plan's level of funding to assign a corresponding variable rate used for calculating the premium.

In developing this hypothetical risk-based option, PBGC set rates to reach the $16 billion target over 8 years by raising an additional $2 billion in premium revenue over plan year 2010 premiums without a phase-in period. To accomplish this, PBGC constructed a scenario whereby the flat rate would increase from $35 to $44 per participant, and the variable rate would increase on a per participant basis rather than on the dollar amount of plan underfunding. Specifically, PBGC weighted the variable rate on a sliding scale that increased as plan funding weakened and decreased with stronger financial health of the sponsor (see table 6). The flat and variable rates were combined into a single rate and then capped on a per participant basis, as under the President's proposal, so that the result would not be more than four times the premium rates in plan year 2010.40 (See appendix III for additional GAO analyses of this premium option.)

40The President had also proposed in his September 2011 deficit reduction plan that total PBGC premiums for any plan would not exceed four times the amount payable with respect to the plan for the 2010 plan year, on a per participant basis. Under PBGC's risk-based option, PBGC estimates that 84 percent of the total increase in premium revenue over 2010 levels would be attributable to the increase in the variable rate for sponsors. See Office of Management and Budget, “Living Within Our Means and Investing in the Future, The President's Plan for Economic Growth and Deficit Reduction,” (September 2011).
Table 6: Total Premium Rates per Participant (Flat + Variable) under a Hypothetical Risk-Based Option

<table>
<thead>
<tr>
<th>Financial health</th>
<th>(1) ≥120% funded</th>
<th>(2) ≥90% to under 120% funded</th>
<th>(3) 75% to under 90% funded</th>
<th>(4) &lt;75% funded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extremely healthy (1)</td>
<td>$44</td>
<td>$44</td>
<td>$69</td>
<td>$94</td>
</tr>
<tr>
<td>Very healthy (2)</td>
<td>$44</td>
<td>$44</td>
<td>$94</td>
<td>$144</td>
</tr>
<tr>
<td>Healthy (3)</td>
<td>$74</td>
<td>$104</td>
<td>$119</td>
<td>$194</td>
</tr>
<tr>
<td>Risky (4)</td>
<td>$124</td>
<td>$204</td>
<td>$244</td>
<td>$444</td>
</tr>
<tr>
<td>Very risky (5)</td>
<td>$134</td>
<td>$224</td>
<td>$269</td>
<td>$494</td>
</tr>
</tbody>
</table>

Source: PBGC.

However, PBGC’s estimates under the risk-based option could be adjusted in various ways. For example, the premium rates shown in table 6 that are used in the model could be changed based on the same underfunding and financial strength risk factors, but using different weights. Any combination of weighting could be applied to test different policy options—for example, greater weight could be placed on the rate for financial weakness. The model’s rates could be set to track with the actual risk of new claims based on an analysis of historical funding and financial health data correlated with actual claim patterns. In each case, rates would vary for certain sponsors who pose greater risk to PBGC based on financial health.

The risk-based option could also be adjusted to take into account other risk factors associated with different plans’ asset investment mixes, the size of a plan relative to the size of its sponsor, and the level of plan benefits and demographic profile of plan participants, as well as to take into account changes in assumptions over time. As with the hypothetical option to increase rates under the current structure, the rates generated by the model under the risk-based option are based on plan year 2010 plan funding and participant counts, and do not include any phase-in of

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This particular premium design assesses the variable rate portion of the premium—which reflects both plan underfunding and sponsor financial health—on a per participant basis. An alternative would be to assess the variable rate portion as a percentage of the plan’s liability—which would reflect the fact that two plans with the same number of participants could have different levels of plan liability, and therefore risk exposure, per participant, because of differences in the level of benefits provided by the plan and in the ages of plan participants.
rates or changes to assumptions to reflect changes that may occur over time. Thus, to further fine tune the distribution of the combined underfunding and financial health scores and the associated premium rates, PBGC could incorporate these other risk factors into the model, and change funding and participant count assumptions to allow a rate phase-in. While acknowledging these possibilities, PBGC officials emphasized that the purpose of generating this option was purely to illustrate one hypothetical scenario of how rates could be redesigned to incorporate the additional risk factor of a sponsor’s financial health to raise additional premium revenue and to distribute premiums more in line with the risk posed by different plan sponsors—it is not a policy proposal, and the agency has no plans at this time to conduct further analyses to incorporate additional risk factors.

FDIC, a federal corporation that insures the deposits of all federally insured depository institutions, has long used risk-based premiums to help insure depositors against the risk of loss. In 1993, FDIC adopted a risk-related premium system, which was designed to reduce the cross-subsidy that stronger banks implicitly provided to weaker banks under its previous flat-rate premium system. The new system was intended to provide proper incentives for risk taking, whereby banks who pose a higher risk have a higher premium rate. Under FDIC’s risk-based premium system, banks are first categorized on two factors: aggregate assets and a composite supervisory rating reflecting capital, asset quality, management, earnings, liquidity, and sensitivity to market risk (referred to as “CAMELS”).\footnote{For more information on FDIC’s efforts to tie premiums to the estimated risk a bank poses to the agency, see GAO, \textit{Deposit Insurance: Assessment of Regulators’ Use of Prompt Corrective Action Provisions and FDIC’s New Deposit Insurance System} GAO-07-242 (Washington, D.C.: Feb. 15, 2007).} FDIC sets assessment (premium) rates to achieve a target “designated reserve ratio” based on the ratio of the deposit insurance fund to insured deposits.\footnote{The designated reserve ratio is currently set at 2 percent. According to FDIC officials, regulations implemented in 2010 allow the FDIC to set assessment rates at moderate levels when the designated reserve ratio exceeds 1.15 percent and progressively lower assessment rates when the reserve ratio exceeds 2 percent and 2.5 percent.} Most banks—specifically, those under $10 billion in assets—are placed in four risk categories on the basis of their capital (which is roughly equivalent to a bank’s funding level) and CAMELS rating (which is roughly equivalent to a bank’s financial health). Following the economic crisis of 2008, FDIC began to reconsider risk-
based pricing methods for large banks, taking into account the risks that caused severe problems for large banks. Effective in the second quarter of 2011, FDIC began using different methodologies to set assessment rates for small and large banks. Both systems attempt to have riskier banks pay higher premiums at the time they assume the risk rather than waiting until conditions deteriorate. However, the FDIC charges a higher premium rate for large banks with high asset concentrations and less stable balance sheet liquidity.

At least one country has already moved to a more risk-based system for determining premium rates. The UK’s Pension Protection Fund (PPF)—the government corporation responsible for insuring benefits to participants of DB plans—incorporates additional risk factors into its premium structure.\(^4^4\) PPF’s premium structure has two components: a risk-based premium and a plan-based premium.\(^4^5\) The risk-based premium is based on the likelihood of a plan making a claim on PPF (which PPF terms “insolvency risk”) and the potential size of that claim (which PPF terms “underfunding risk”). PPF uses the Dun & Bradstreet failure score—a measure of the likelihood of sponsor bankruptcy—as the risk factor for determining a sponsor’s insolvency risk.\(^4^6\) PPF uses information about the value of plan assets and liabilities, supplied to the agency by sponsors through an exchange, to calculate a sponsor’s underfunding risk.\(^4^7\) Beginning with plan year 2012/13, PPF will also consider a plan’s investment strategy to adjust underfunding risk when calculating a plan’s premium. (See appendix IV for a description of the

\(^4^4\)We did not conduct independent legal analysis to verify the information on UK’s DB premium framework, but rather relied on a review of publicly available PPF documents and discussions with PPF officials.

\(^4^5\)PPF refers to plans as schemes and premiums as levies. For the purpose of this report, we continue to use plans and premiums when discussing PPF’s premium framework.

\(^4^6\)In the UK, the Dun & Bradstreet failure score predicts the likelihood that a company will obtain legal relief from its creditors or cease operations over the next 12-month period. It is presented as a ranking score ranging from 1-100: 1 indicates the highest risk of failure and 100 the lowest level of risk. Businesses with the same failure score have the same risk of failure.

\(^4^7\)According to PPF officials, the funding position of plans is reported through an exchange system on a consistent basis, as specified in PPF guidance, and transformed to a consistent date by rolling forward the assets and liabilities notified to a consistent date. The exchange is maintained by the UK’s Pensions Regulator, the agency responsible for regulating pension plans in the UK. The exchange allows sponsors to upload information about their plans and make premium payments electronically.
components of PPF’s premium formula.) PPF then uses a premium scaling factor to calculate a plan’s premium to meet a certain revenue target.48

The changes adopted for plan year 2012/2013 affect how PPF will calculate both the risk-based premium and the plan-based premium. For example, before these changes, for plan year 2011/12, all sponsors with plans funded up to 155 percent paid a risk-based premium based on an underfunding risk factor that decreased as a plan’s funding level increased. Sponsors whose plans were funded at or above 155 percent did not pay a risk-based premium. For the 2012/13 plan year, plan underfunding will be calculated using 5-year financial market indexes—referred to as smoothing49—for plan assets and liabilities, and will for the first time take a plan’s investment strategy into account, adjusting a plan’s underfunding risk based on the plan’s level of investment risk. The risk-based premium is also capped to protect the most vulnerable plans.50 In addition, prior to the 2012/13 plan year, the plan-based premium was based on a plan’s estimated liabilities to its participants. Starting with the 2012/13 plan year, the plan-based premium will be based on a plan’s smoothed liabilities to its participants and on a premium multiplier to cover the costs to the agency of capping the highest risk-based premiums. As a result, the plan-based premium will account for a smaller percentage of

48PPF’s annual revenue target is based on estimates of the funds required to meet certain future financial goals. Beginning in August 2010, PPF has published its funding strategy, which sets out how the agency intends to have the financial resources needed to pay existing levels of compensation to current and future PPF participants and become financially self-sufficient by 2030. For plan year 2012/13, the premium scaling factor is set to scale down risk-based premiums so that together with the plan-based premiums, PPF will collect revenue sufficient to meet its target ($864 million) for the year.

49To reduce the impact of short-term volatility in the financial markets, and to ensure that all plans are treated on a consistent basis, for plan year 2012/13, PPF will smooth the value of the assets and liabilities that a plan reports using 5-year financial market averages up to March 30, 2012.

50The cap for 2012/13 is 75 basis points (0.75 percent) of smoothed liabilities. Where the risk-based premium calculated using the above formula exceeds 0.75 percent of a plan’s liabilities, the cap is applied and the premium is decreased accordingly.
the total premium, decreasing its portion of the total premium from 20 percent to an estimated 10 percent.51

Beyond these basics, PPF’s premium framework differs from PBGC’s current premium structure and from other proposals to redesign PBGC premiums in a number of more subtle ways as well. Key features include the following:

- **Equitable basis of PPF’s plan-based levy.** The plan-based premium used prior to the 2012/13 plan year can be considered, essentially, PPF’s version of PBGC’s flat-rate premium. The difference is that PBGC’s flat-rate premium is calculated on a per participant basis, whereas PPF’s plan-based premium is a percentage of the liability owed to participants. The percentage of liability approach is a more equitable distribution in the sense that it is based on the total liability owed by a plan to its participants, rather than on a plan’s participant count (a plan could have many participants but a relatively small liability, or few participants but a very large liability, so that the number of participants per se has limitations as a measure of exposure). For example, consider two plans with the same number of participants, but one has a liability twice as large as the other (either because of more generous benefits or costlier demographics). Although, all other things being equal, the plan with greater liability is riskier, under its current premium structure, PBGC would charge both plans the same fixed premium, whereas PPF would have charged a larger plan-based premium to the plan with greater liabilities.

- **Proportionality in PPF’s underfunding factor.** In the risk-based premium option modeled by PBGC, a plan’s funded status is represented by its funded ratio (the ratio of plan assets to plan liabilities). The variable rate applied to that plan is, in part, determined using that ratio to assign the sponsor to one of the designated risk premium categories and the rate is then applied on a per participant basis. In contrast, PPF represents

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51While the premium cap applies only to some plans’ risk-based premiums, the multiplier is spread across all plans’ plan-based premiums to help meet PPF’s revenue target. PPF contends that this approach also makes the necessary cross-subsidy in the plan-based premium more transparent as it ends the practice of scaling up risk-based premiums to cover the cost of capping. In essence, PPF is minimizing the amount of cross-subsidization in the plan-based premium by limiting it to only cover premiums lost via the capping on risk-based premiums. In contrast, in the previous plan year (2011/12), a multiplier was applied to every plan so that plan-based premiums accounted for an estimated 20 percent of the total pension protection premium estimate for the year.
funded status by the actual financial value of the unfunded liability of each plan and does not assign a plan to a funded category, but instead applies a premium directly to the unfunded amount (similar to the current PBGC variable-rate premium), so that the premium charged is more proportional to the individual unfunded exposure of the plan. By being directly linked to the level of underfunding in each individual plan, PPF’s premium may more accurately reflect the level of risk posed by plans than the hypothetical approach modeled by PBGC.

- **Linkage of PPF premiums to long-term funding strategy.** PPF publishes a long-term funding strategy, which sets out how the agency intends to have the financial resources needed to pay existing levels of compensation to current and future PPF participants and become financially self-sufficient by 2030.\textsuperscript{52} Integral to its funding strategy, PPF monitors how its premiums might need to change under different economic circumstances in order to meet its funding target.\textsuperscript{53} Although PBGC publishes an annual exposure report—which estimates future claims and premium revenues—it does not currently have the statutory authority to change rates based on these estimates to meet specific revenue targets.

- **Proportionality and effectiveness of including plan asset allocation as a risk factor.** Although new for PPF and therefore untested, incorporating this significant risk factor into rates could better align premiums with risk and could also provide an incentive for sponsors to use less risky asset allocations.

\textsuperscript{52}PPF defines self-sufficiency as a level of assets 10 percent in excess of its liabilities. In addition to being fully funded, PPF’s goal is to eliminate its exposure to interest rate fluctuation, inflation, and other market risks. PPF also wants to build a reserve to further protect itself against future claims and the impact of members living longer than it estimates. Most recently, PPF’s latest assessments show that the probability of achieving self-sufficiency measured on its base case has improved from 83 percent in March 2010 to 87 percent in March 2011.

\textsuperscript{53}To help reduce volatility for plan sponsors, PPF’s risk-based premium is now fixed for 3 years. Beginning with the 2012/13 plan year, PPF revised its funding strategy to reflect a “bottom up” approach in which risk factor parameters will be fixed for 3 years and, ideally, remain stable between each 3-year review. Under this approach, PPF intends to keep the risk-based premium scaling factor and the plan-based multiplier fixed for 3 years—a sponsor’s risk-based premium will only change if its risk level changes. Previous to plan year 2012/13, PPF’s model reflected a “top down” approach in which PPF would decide upon the premium that it deemed appropriate in a given year, and then set the premium parameters accordingly on an annual basis.
In addition, there are differences related to risk premium caps between PPF’s framework and PBGC’s proposed risk-based premium that could potentially have distributional effects on rates and premium levels. The cap on PPF’s risk-based premium is 75 basis points (0.75 percent) of the plan’s liability to its participants. This compares to the administration’s proposal for a different type of cap for PBGC whereby premiums would be limited to four times a sponsor’s plan year 2010 premiums on a per participant basis and the new $400 per participant variable-rate limit set by MAP-21. How premium caps are calculated could change the distributional pattern of the amount of premiums sponsors would pay under different premium options, and could adjust the total amount of revenue collected by PBGC under these options.

Compared to the distribution of costs under the current structure, premium costs would be redistributed to those sponsors posing greater risk to PBGC under a more risk-based structure. For example, if the financial health of the plan sponsor were included as a risk factor, financially risky sponsors would pay more, while financially healthy sponsors would pay less. A more risk-based structure such as this would decrease the cross-subsidization present in the current premium structure that relies largely on the flat rate charged to all sponsors based on number of participants no matter the level of risk they pose. Pension experts and plan sponsors we spoke with raised various concerns about this redistribution of costs. For example, some voiced concerns that the higher premiums for some plan sponsors might increase the frequency of plan freezes and terminations; however, our previous work indicates that, generally, this would be unlikely. Some noted that depending on the way risk is incorporated, premiums could rise during recessions when financially weak companies are least able to bear the costs, especially smaller companies. Some also expressed concern about the equity of various premium redesign options, especially those that require current sponsors to pay higher premiums to address PBGC’s deficit for prior plan terminations. Experts and officials suggested various ways to address such concerns.

Moving to a More Risk-Based Structure Shifts Premium Costs to Riskier Sponsors

54A plan freeze is an amendment to the plan to limit some or all future pension accruals for some or all of the plan participants. For example, a pension plan may close to new participants, or a plan may opt to prohibit existing participants from earning pension benefits in the future.
Under a more risk-based structure that included sponsor financial health as a risk factor, premium costs would be redistributed to better reflect the risk posed by each plan sponsor. To better understand the implications of moving to one such more risk-based structure, we analyzed the data provided in PBGC’s sample of 2,699 plans to determine the range of per participant rates sponsors would pay under PBGC’s hypothetical risk-based option compared with rates in plan year 2010 and the increases scheduled to be in place in 2015 as a result of MAP-21. As summarized in table 7, compared with rates in 2010, minimum rates are higher across the board under both the act and the more risk-based option, while the maximum rates are lower due to the adoption of a variable-rate limit (four times the per participant rate paid in plan year 2010 for the hypothetical risk-based option and no more than $400 per participant under MAP-21). In a comparison of rates under the risk-based option with estimated rates under MAP-21 in plan year 2015, those with plans that are well funded (that is, funded at 120 percent or more) could see their rates decrease slightly ($44 vs. $49) if they are financially healthy, while their rates could more than double ($134 vs. $49) if they are categorized as very risky. Among those with plans that are poorly funded (that is, funded at less than 75 percent), sponsors could see higher rates under the more risk-based structure depending on whether they are financially healthy or not ($94 to $494 vs. $57 to $449). For example, a poorly funded plan that is categorized as very risky could see its rates increase as much as $257 per participant. PBGC officials noted, however, that while technically correct, few plans are likely to have variable-rate premiums near these upper-end caps.

### Table 7: Hypothetical Risk-Based Option Premium Rates Compared to Rates in Plan Year 2010 and in Plan Year 2015 under MAP-21

<table>
<thead>
<tr>
<th>Dollars per participant</th>
<th>Range of per participant premium rates among plans in samplea</th>
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<tbody>
<tr>
<td></td>
<td>&gt;120% funded</td>
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<tr>
<td>Plan year 2010 ratesb</td>
<td>$35</td>
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<tr>
<td>Plan year 2015 rates under MAP-21 (estimated)c</td>
<td>49</td>
</tr>
<tr>
<td>PBGC’s hypothetical risk-based option (incorporates additional risk factor for financial health)d</td>
<td>44-134</td>
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</tbody>
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Source: GAO analysis of PBGC data from a sample of defined benefit plans used in PBGC’s hypothetical premium model.

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aFor the most part, PBGC’s model used plan year 2010 data from a sample of 2,699 DB plans covering 27.5 million participants. The model covered 81 percent of all PBGC-insured participants (33.8 million) in 2010. However, in some instances, PBGC used 2009 data to calculate per participant...
rates for sponsors. In those instances, the lower bound of the per participant rate was $34, since the flat rate was $34 per participant in 2009. Thus, we chose to limit our analysis of PBGC’s model to data from 2010.

To calculate the per participant rates for plan year 2010, PBGC divided the total premiums each plan paid in plan year 2010 by the participant count for that plan. To calculate the range of premium rates by funding level, we grouped PBGC’s per participant rates data for each plan into the four funding categories PBGC used in its hypothetical premiums model.

Pub. L. No. 112-141, 126 Stat. 405 (2012). Rates under MAP-21 for 2015 are estimated using data from PBGC’s premium model, including participant and underfunding levels from 2010. We estimated rates by placing a limit of $400 on the variable rate on a per participant basis as required under the act and by grouping per participant rates data for each plan into the four funding categories PBGC used in its hypothetical premiums model.

Rates under this option are affected by both the aggregate funding level for a sponsor’s plan and the sponsor’s financial health rating. To calculate the per participant rates for the risk-based option, PBGC used plans’ funding levels and participant counts from its plan year 2010 premium database and incorporated financial health data for each sponsor. Based on a plan’s funding level and the financial health of the plan’s sponsor, PBGC assigned each plan to a risk category that carried a specific per participant rate. To calculate the range of premium rates by funding level, we grouped PBGC’s per participant rates data for each plan into the four funding categories PBGC used for this option in its hypothetical premiums model.

To determine how these rate changes would be redistributed at the company level, rather than at the plan level, we aggregated the data in PBGC’s sample by sponsor. We found that the 2,699 plans in the sample were sponsored by 1,114 different companies. As summarized in figure 2, our analysis suggests that for the two-thirds of companies that were ranked more financially healthy (that is, sponsors whose financial health is considered extremely healthy, very healthy, or healthy), premiums would decrease for a majority (71 percent of sample companies). These decreases were largely due to the lower flat rate under the risk-based option compared to the MAP-21 rate. In contrast, for the companies that were ranked less financially healthy (that is, sponsors whose financial health is considered either risky or very risky), premiums could increase for most (92 percent of these sample companies). The increases were mainly due to how the financial health risk factor affects per participant rates under the risk-based option for these companies, regardless of level of plan underfunding.
Because rates under the risk-based option are calculated on a per participant basis, the magnitude of these changes will vary by company depending on the number of participants in the plan or plans that they sponsor. For example, among the 143 least financially healthy companies with increases in premiums under PBGC’s risk-based option, the number of plans and participants for companies varied widely. On the small end of the spectrum, one company sponsored a plan with 825 participants. This company’s estimated total premium cost would be $407,550 under PBGC’s risk-based premium, compared with $370,425 under MAP-21 in plan year 2015, a 10 percent increase. On the large end, another company sponsored a plan with 327,463 participants. This company’s estimated total premium cost would be $100.9 million under PBGC’s risk-based premium, compared with $43.2 million under MAP-21 in plan year 2015, a 133 percent increase, even with the cap.
Although plan sponsors and experts expressed varying opinions about how moving to a more risk-based premium structure might influence plan sponsors, our previous work on the subject found that increases in premium costs were not a significant reason for sponsors to freeze or terminate their DB plans. Among the many reasons sponsors cited in our 2008 report for freezing their largest plans, the most often cited were the impact of annual contributions on their firm’s cash flows and the unpredictability of plan funding. The factors that were most likely to influence implementing a hard freeze—that is, a freeze that ceases all future benefit accruals—were sponsor size and the extent to which a sponsor’s plans are subject to collective bargaining agreements. A more recent survey of DB plan sponsors by Towers Watson reported similar findings. Sponsors cited reducing cost and minimizing cost volatility as the primary reasons for freezing plans or converting plans to some other type of retirement savings instrument. PBGC premium increases were not mentioned by sponsors as a factor for freezing or converting their plans.

As of 2008, larger sponsors, those with 10,000 or more total participants, were significantly less likely than smaller sponsors to have implemented a hard freeze. Similarly, firms with some or all plans subject to collective bargaining are significantly less likely to implement hard freezes than sponsors with no plans subject to collective bargaining. See GAO, Defined Benefit Pensions: Plan Freezes Affect Millions of Participants and May Pose Retirement Income Challenges, GAO-08-817 (Washington, D.C.: July 21, 2008).

Towers Watson conducted the survey from October 2011 to December 2011 and included responses from 424 DB plan sponsors at midsize and large organizations. Respondents were asked about changes to their retirement plans over the past 10 years, their motivations behind those changes and their future retirement offerings. See Towers Watson, Pensions in Transition: Retirement Plan Changes and Employer Motivations (New York, N.Y.: May 2012).

While higher premiums were not cited as a reason to freeze or terminate a plan, lower premiums were cited as a potential reason to reopen a plan after it had been frozen. Ibid.
Moreover, according to PBGC officials, premiums generally account for a small percentage of compensation costs.58

Nevertheless, several experts and others we spoke with pointed out that increased premium costs could have negative implications for DB plan sponsors. For example, some commented that increased premiums might divert funds that sponsors would have otherwise used to fund their pension plans or other company priorities such as job creation and business investment. A few told us they viewed a potential increase in PBGC premiums simply as a tax increase on companies that sponsor DB pension plans. One sponsor we spoke with commented that DB pension plans are already in duress because of historically low interest rates for plan funding obligations, and that increased premium costs would add another challenge to sponsors. Another noted that it is increasingly more difficult to justify the costs of DB pension plans to management, and increased premiums may be the final factor in a sponsors’ decision to freeze or terminate their plan. However, another sponsor said that given all the other challenges facing pension plans, increasing premiums is unlikely to have a significant effect.

Pension experts we spoke with also differed in their opinion on whether implementing a new premium structure would lead to plan freezes or terminations. Several—including, five business professionals, three academics, one labor representative, one actuary, and one federal official—noted that increased premium costs may cause an increase in plan freezes or terminations, which could result in negative implications

58According to PBGC’s analysis of Bureau of Labor Statistics data, premiums account for about 1 cent per hour of total average compensation costs. This analysis was based on data that indicated that, on average, private industry employers spend approximately 3.6 percent of total compensation costs on retirement and savings expenses, and of this, PBGC premiums generally account for approximately 3.4 percent of total pension costs. However, PBGC’s analysis does not take into account that only about 10 percent of private companies offer access to DB plans. A more accurate calculation would need to reflect the cost of premiums compared to compensation costs among just those firms offering DB plans, but the Bureau of Labor Statistics does not provide a breakdown of data to allow such an analysis.
for the retirement security of plan participants. As one academic noted, under a risk-based premium structure, premium costs for financially healthy plans and sponsors may decrease, while financially unhealthy plans and sponsors will likely have increased premium costs, further worsening their financial position and potentially causing these plan sponsors to exit the DB system. However, others stated that they believed that increased premiums will not increase plan freezes and terminations. For example, an agency official said that premiums historically have been set low, and premium increases are unlikely to cause plan freezes or terminations. Additionally, another agency official noted that since there are many factors influencing plan sponsors’ decisions to terminate a plan, premium increases will likely have little impact.

Nevertheless, pension plan freezes and terminations have become more common in recent years, weakening the DB system. Plan freezes increased nearly 50 percent from 2003 to 2008. Specifically, PBGC reported that as of the end of 2009, approximately 27 percent of all PBGC-insured plans were hard frozen.

59Our previous work on the topic noted that plan freezes and terminations may impact participants’ retirement security by reducing future benefits, though this may be somewhat or entirely offset by increases in other benefits or a replacement retirement-savings plan. Additionally, under a plan termination, it takes PBGC about 3 years, on average, to complete the benefit determination process and provide participants their finalized benefit amounts. Long delays and uncertainty over final benefit amounts in a plan termination make it difficult for workers to plan for retirement, and for retirees who have come to depend on a certain level of monthly income. See GAO-08-817 and GAO, Pension Benefit Guaranty Corporation: Workers and Retirees Experience Delays and Uncertainty when Underfunded Plans Are Terminated, GAO10-181T (Washington, D.C.: Oct. 29, 2009).

60A hard freeze—the most common type of freeze—occurs when all future benefit accruals cease. PBGC officials noted that freezes have occurred disproportionately in smaller plans and that a more accurate metric may be the number of workers affected by a freeze. According to PBGC, just over 75 percent of all active employees participating in PBGC-insured single-employer DB plans are still accruing benefits and are in plans that still cover new employees, indicating that less than 25 percent are in plans that have been affected by a freeze.
increase from fiscal year 2003 to 2010.\textsuperscript{61} Data provided by PBGC indicate that, from 2000 to 2010, about 1.2 million participants were in plans that ceased to exist because of standard plan terminations.\textsuperscript{62} The Towers Watson survey found that approximately two-thirds of sponsors that once offered a DB plan to new hires no longer offer these benefits; however, the survey also found that many active DB sponsors remain committed to offering a DB plan in the future.\textsuperscript{63}

<table>
<thead>
<tr>
<th>Other Potential Behavioral Effects Cited, but Impact Uncertain</th>
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| Rather than inducing plan sponsors to freeze or terminate their plans, several pension experts—as well as PBGC officials—expressed the hope that moving to a more risk-based premium system would encourage less risky behavior among plan sponsors. For example, when faced with increased premiums for increased risk, sponsors might adopt safer asset allocation practices or contribute more to their plans to keep funding levels higher. In an attempt to quantify this incentive, one pension actuary has noted that the current variable-rate premium can have an economic effect equivalent to an additional return on investment. For example, when, in 2015, the variable rate reaches $18 per year per $1,000 of underfunding, an additional $100 contributed to an underfunded plan will reduce annual premiums by $1.80, or 1.80 percent, and so can be viewed as boosting investment return by almost 2 percent— which is a potentially stronger incentive to fund the plan than what exists currently. Similarly, the new premium assessment in the UK based on the riskiness of plan asset allocation could possibly induce plan sponsors to shift to somewhat

\textsuperscript{61}However, voluntary standard plan terminations can be costly, as plan sponsors must fully fund all benefits, either by distributing lump-sum payments (to the extent allowed under the plan and elected by participants) or by purchasing annuities to secure participants’ benefits into the future. 29 U.S.C. § 1341(b). An underfunded plan cannot be terminated unless the sponsor demonstrates it cannot fund the plan, usually through a bankruptcy proceeding. Thus, when a healthy sponsor terminates an underfunded plan, it first must fully fund the plan prior to termination. When PBGC initiates the termination of a plan, it is because it determines the sponsor will be unable to fund the plan, and it intervenes to protect participants’ benefits.

\textsuperscript{62}At the same time, PBGC officials noted that in 2010, standard terminations were just about 5 percent lower than the average of 1369 standard terminations for the previous 10 years. PBGC officials also indicated that on average, these plans covered about 80 participants, and of those 1.2 million participants, about half were workers.

\textsuperscript{63}The Towers Watson study also found that larger DB plan sponsors are less likely to move away from a DB design than their smaller counterparts and that certain industries (e.g., utilities, health care) are more likely to depend on DB benefits as a vital component of reward packages to attract and retain skilled workers.
less risky asset allocations. Either effect—increased funding or less risky asset allocations—would, in turn, reduce the risk to the pension insurer. Little is yet known about the likelihood or magnitude of these potential effects, however, and PBGC does not include any behavioral impacts in its modeling.

**Concerns Raised That Risk-Based Premiums Could Increase during Recessions**

Some pension experts we spoke with raised concerns about the potential for premiums to rise when companies are least able to bear the costs, as could be the case during recessions. Depending on how risk factors are incorporated into rates, premiums could have a pro-cyclical effect—that is, they would increase during economic downturns. As economic conditions worsen, more companies would fall into the less financially healthy categories, and more plans would become less well-funded, resulting in higher premiums. This could lead to financially weaker firms being required to pay higher premiums at precisely the time that they can least afford to do so.

However, increases in premiums under the current premium structure are already pro-cyclical. For example, the increases in the variable rate under MAP-21, enacted in July 2012, would cause rates to increase to the extent that plan underfunding increased during a recession when firms are least capable of paying higher premiums. Recognizing that such increased premium costs could prove a hardship for some sponsors, Congress included a cap on premium increases under MAP-21, and the President’s proposal also included a cap. Additional steps could be taken to address such concerns with cyclicality under a more risk-based premium structure. For example, PBGC officials said that, in addition to caps, they would consider supporting the use of an average of a

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64As noted earlier, under MAP-21, per participant premium rates are capped at no more than $400 beginning in 2013. Similarly, under the President's deficit reduction proposal, per participant rates for premiums are capped at no more than four times the rates paid in plan year 2010.
sponsor’s 5-year funding levels to help smooth the impact that economic cycles would have on risk-based premium rates.\textsuperscript{65}

FDIC faced similar concerns when designing its new premium system for financial institutions in 2006. To address these concerns, the FDIC capped premiums for its riskiest category of institutions at 60 percent below what the premium amount would be under a purely risk-based system.\textsuperscript{66} In adopting this cap, FDIC sought to address long-standing concerns of the industry, regulators, and others that premiums should not be set so high as to prevent an institution that is troubled and seeking to rebuild its health from doing so. As a result of the cap, however, some degree of cross-subsidy still exists in the premium system between financially healthier institutions and troubled institutions.

The impact of having to pay higher rates under a new premium structure also may pose more of a challenge for some smaller companies than some larger ones, as they may have fewer resources to draw from for these added costs. The data in PBGC’s premium model do not include information on company size, such as a sponsor’s assets, revenue, operating costs, or payroll expenditures. Without such data, it is unclear the extent to which smaller companies may experience a greater hardship under the risk-based option compared with larger companies. However, consideration of company size could be incorporated into a redesigned premium structure. For example, in designing its premium system, the FDIC created a structure that differentiates between large and small institutions. Large institutions are priced using one of two “scorecards”—one for the majority of large institutions, and a separate scorecard for very large institutions that are structurally and operationally complex or that

\textsuperscript{65}During the recent economic downturn and current economic situation, Congress took similar steps to mitigate the effects of the PPA provisions requiring increased contributions to underfunded plans, allowing sponsors to amortize increases to their contributions over a longer period, postponing implementation of the increased funding requirements for some firms, and averaging market interest rates over a 25-year period to provide relief against the current low interest rate environment. Preservation of Access to Care for Medicare Beneficiaries and Pension Relief Act of 2010, Pub. L. No. 111-192, 124 Stat. 1280,1283-1306, §§ 201-211; and Worker, Retiree, and Employer Recovery Act of 2008, Pub. L. No. 110-458, §§ 101, 102, 121 and 122, 122 Stat. 5092, 5093-5103, 5113-14, and MAP-21, § 40221, 126 Stat. 850-52.

\textsuperscript{66}In 2006, FDIC officials noted that the number of institutions in this highest category is small and thus the trade-off between lower premiums for troubled institutions and potentially larger losses for FDIC later would not be significant. See GAO-07-242.
pose unique challenges and risks in case of failure. Each scorecard combines a performance score and a loss severity score. The scorecard for large and complex institutions incorporates various measures of market risk. Smaller institutions have their premiums based on financial ratios, such as an institution’s capital, past-due loans, and income, and its CAMELS ratings. For smaller institutions, FDIC data show that the higher on the CAMELS scale institutions are rated, the higher the rate of failure.

General Concerns about Equity Implications of Increasing Premiums Also Raised

Plan sponsors and others we spoke with also raised some concerns about the equity of increasing premiums under a more risk-based structure. In particular, several raised concerns about having current sponsors pay higher premiums to pay for PBGC’s liabilities from plans terminated in the past. Further, the amount of revenue currently being proposed to be raised through increased premiums is unlikely to cover the full amount of future claims, let alone help to address liabilities due to past claims.

These concerns are not unique to a more risk-based premium structure. Increasing rates under the current premium structure also gives rise to concerns about equity implications, and is the reason for adopting premium caps. However, such provisions do not alleviate the equity concerns of how to deal with “legacy costs” from plans terminated in the past. To further address such equity concerns, several pension experts noted the need to separate PBGC’s existing liabilities from the projected cost of future claims, and they suggested various alternative surcharges for accomplishing this goal (see table 8). These surcharges attempt to raise revenue to pay existing liabilities more equitably by targeting companies that have re-emerged from bankruptcy, that are in industries with the largest previous claims, and that are past as well as current sponsors. However, as noted in the table, each has drawbacks that limit its effectiveness as a potential revenue-raising tool for this purpose.

67As noted earlier, to help address such concerns, Congress included provisions in MAP-21 to limit the extent of increases in the variable-rate premium. The administration has also proposed limiting the extent of increases by setting a maximum per participant limit to the total amount of a sponsor’s increase under a more risk-based premium structure.

68See also, American Academy of Actuaries, Examining the PBGC Premium Structure, (Washington, D.C.: April 2012). This issue brief describes how PBGC costs could be divided into two distinct categories: (1) going-forward costs, which are associated with the risks of ongoing coverage by PBGC; and (2) past costs, which are associated with existing or imminent claims on PBGC for terminated plans.
### Table 8: Options Suggested by Experts to Address PBGC’s Past Deficit Costs

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bankruptcy Re-Emergence Surcharge</td>
<td>A surcharge could be levied against sponsors whose plans terminate in bankruptcy, but re-emerge after turning over their liabilities to PBGC. The surcharge would be separate from, and in addition to, the termination premium, which is levied on plan sponsors that terminate an underfunded pension plan. Such a surcharge could promote greater accountability among plan sponsors responsible for PBGC’s deficit, but may place a serious financial burden on these formerly bankrupt companies.</td>
</tr>
<tr>
<td>Industry-Specific Surcharge</td>
<td>A surcharge could be levied on those industries that have accounted for a disproportionate amount of PBGC’s deficit. For example, the government could impose a fee on airline tickets that would cover the underfunded airline plans that have been taken over by PBGC. This surcharge may incentivize plan sponsors within certain industries to manage their plans more responsibly. However, it may also place a financial burden on these companies or their customers through increased prices, and these companies would not be the same companies that contributed to PBGC’s deficit by terminating their plans in the past.</td>
</tr>
<tr>
<td>Retirement Sponsor Surcharge</td>
<td>A surcharge could be levied on an ongoing basis across all DB plan participants, and/or a one-time surcharge could be levied on any past or present sponsor that provides a DB retirement plan. This approach recognizes that all DB plan sponsors have a stake in the health of the DB retirement system, and PBGC’s insurance program that helps protect its participants. However, this surcharge would place an additional cost on healthy plan sponsors who are less likely to be responsible for contributing to PBGC’s deficit by terminating their plans in the future.</td>
</tr>
</tbody>
</table>

Source: GAO interviews with pension experts.

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a 29 U.S.C. 1306(a)(7). Specifically, a termination premium of $1,250 per participant per year for 3 years generally applies when a single-employer plan terminates in a distress termination under 29 U.S.C. § 1341(c)(2)(B)(i) or (iii) or in an involuntary termination under 29 U.S.C. § 1342. However, this premium does not apply in the case of a plan terminated under 29 U.S.C. §§ 1341(c)(2)(B)(ii) or 1342 during the pendency of a bankruptcy reorganization (29 U.S.C. § 1306(7)(b)), or to any plan termination during the pendency of any bankruptcy reorganization filed before October 18, 2005 (Deficit Reduction Act of 2005, Pub. L. No. 109-171, § 8101(b) and (d), 120 Stat. 181-22 and 183 (2006)).

In addition, some plan sponsors and others we spoke with voiced concerns about whether potential risk-based factors could equitably represent the future risk of particular sponsors and their plans to PBGC or could have other adverse consequences for sponsors. For example, some sponsors expressed concern about including a risk factor measuring plan asset investment mix, in particular, because, as noted by one sponsor, it is important for plan sponsors to invest assets according to their individual needs and priorities. Some experts also expressed equity concerns about the potential inclusion of a creditworthiness factor. One expert stated that if information about the financial status of DB plan sponsors were made public, it could put these companies at a competitive
disadvantage compared to companies that do not sponsor DB plans.\textsuperscript{69} A few plan sponsors said that risk-based premiums are conceptually appealing, but that fairly measuring risk may not be feasible. For example, one sponsor said that it would be difficult to fairly measure and assess the risk factors used in setting risk-based premium rates and to make the results of these measurements transparent.

Finally, some sponsor advocates we spoke with questioned the need to increase premiums at all. These advocates believe if more appropriate interest rates were used, the deficit would disappear, and no increase in premiums would be warranted.\textsuperscript{70}

### Moving to a Risk-Based Premium Structure Poses Various Challenges

The process of redesigning and implementing a more risk-based premium structure poses a number of operational challenges. Additional data and analysis would be needed on the selected risk factors, with regular monitoring to ensure that the data are accurate and up-to-date. PBGC is uniquely situated to take on this complex task, but if granted the statutory authority to do so, the agency could then face a number of additional administrative challenges concerning governance, transparency, and sponsor recourse.

### Additional Data and Analysis Would Be Needed

The rate-setting entity responsible for implementation of a risk-based premium structure likely would require access to financial and other firm-specific information to provide a sound technical basis for the underlying parameters of a risk-based premium regime. The specific types of information needed would depend on the specific factors selected, but the

\textsuperscript{69}PBGC officials noted, however, that commercial measures, such as a company's credit ratings, have been used to estimate the risk of default for individual companies for over a century. Information on creditworthiness on public companies is readily available, and credit scores on private companies are available for purchase from entities such as Dun & Bradstreet.

\textsuperscript{70}They believe that the artificially low interest rates following the economic downturn of 2008 have, in turn, artificially inflated PBGC’s deficit. Instead of using annuity prices to set interest rates for valuing its future liabilities, these advocates believe it would be more accurate to use a “dollar cost averaging” approach that would set interest rates looking forward over 30 years based on historical interest rates over the last 30 years—much like the approach Congress took in changing funding requirements governing interest rates for DB plans recently in MAP-21, § 40211, 126 Stat. 846-50. For further details on how PBGC calculates its deficit, see appendix V.
information currently being collected may not be sufficient in some cases. For example, PBGC currently obtains information about plans from data reported by plan sponsors on the Form 5500 and under section 4010 of ERISA. Plan sponsors are required to submit the Form 5500 annually to Labor, Internal Revenue Service, and PBGC.\textsuperscript{71} This form includes information about the level of plan underfunding (which is currently captured in the variable-rate premium) and the investment mix of plan assets (which is a potential risk factor that could be incorporated). The other main source of information, data reported under section 4010 of ERISA, is submitted to PBGC by plan sponsors only if certain criteria are met.\textsuperscript{72} The PPA revised those criteria, and according to PBGC officials, some plans are no longer required to provide information under section 4010 of ERISA even though they still pose an increased risk to PBGC.\textsuperscript{73}

PBGC also obtains information about the financial health of plan sponsors through its Early Warning Program, which is responsible for monitoring companies that are deemed to pose a greater risk to PBGC because they are financially troubled or have a significantly underfunded pension plan.\textsuperscript{74} This program uses information from a variety of sources in conducting its work, including credit ratings, financial information services, news databases, and information from Labor, the Internal Revenue Service, and the Securities and Exchange Commission. While information gathered through the Early Warning Program would be relevant to the potential risk factor of a company’s financial health, the program does not systematically gather data for all plan sponsors, and PBGC may be

\textsuperscript{71}29 U.S.C. §§ 1021(b)(1) and 1023.

\textsuperscript{72}29 U.S.C. § 1310. Specifically, plan sponsors and members of its controlled group are required to report financial and actuarial information to PBGC for plans if the (1) the funding target at the end of the preceding plan year is less than 80 percent, (2) certain conditions for imposition of a lien have been met, or (3) minimum funding waivers in excess of $1 million have been granted with respect to any plan maintained by a sponsor or member of its controlled group, and any portion is still outstanding.

\textsuperscript{73}Pub. L. No. 109-280, § 505(a), 120 Stat. 946.

\textsuperscript{74}According to PBGC’s fact sheet on the program, the Early Warning Program identifies potential business transactions that could jeopardize the pension insurance program, and PBGC works with plans sponsors to negotiate additional contributions or security (which may include letters of credit or financial guarantees) for underfunded pensions within the context of the transaction. PBGC states that it will work with the company to tailor a settlement that is appropriate to the business transaction and financially feasible for the company.
limited in its ability to use some credit rating data to assess risk within a redesigned premium structure.75

Other government agencies with risk-based premiums have established reliable sources of needed information to support their premium structures. For example, the FDIC relies entirely on pre-existing sources of information and technical resources to assess risk for its risk-based premiums. FDIC obtains information on institutions’ aggregate assets from the quarterly reports submitted by each bank. FDIC’s CAMELS ratings are developed during on-site examinations of each institution, during which regulators more closely assess institutions’ exposure to risk. These quarterly reports and on-site examinations existed prior to FDIC’s shift to risk-based premiums, so FDIC did not need to gather additional information or develop new expertise when it implemented its risk-based premium structure.

Alternatively, in the UK, PPF (the UK’s pension insurance agency) relies on information obtained annually through an online exchange for the information needed to implement the risk-based premium structure.76 PPF calculates its risk-based premiums based on three risk factors: level of underfunding, risk posed by the plan’s investment strategy, and risk of sponsor insolvency (or bankruptcy). The exchange provides the agency with information on a plan’s level of underfunding and how plan assets are allocated across investments with different levels of risk. According to a PPF May 2011 policy statement, beginning with plan year 2012/13, very large plan sponsors—those with plan liabilities of £1.5 billion or greater (about $2.35 billion in U.S. dollars)—are required to submit additional information about their investments, while submission is optional for smaller plans. To assess sponsors’ risk of insolvency, PPF currently relies on Dun & Bradstreet’s failure scores—a measure of the likelihood

75Pursuant to the Dodd-Frank Wall Street Reform and Consumer Protection Act, federal agencies are to review their regulations and remove any reference to or requirement of reliance on credit ratings and substitute other appropriate standards of creditworthiness. Pub. L. No. 111-203, § 939A, 124 Stat. 1376, 1887 (2010). Thus, PBGC would be required to establish its own standard of creditworthiness rather than use credit ratings to assess the risk of plan sponsors in its premium structure.

76The exchange is maintained by The Pensions Regulator, the agency responsible for regulating pension plans in the UK. The exchange enables sponsors to upload information about their plans and make premium payments electronically. The Pensions Regulator works closely with PPF to monitor high-risk plans, minimize claims, and ensure that employers do not take advantage of the insurance provided by PPF.
of sponsor bankruptcy—and applies its own schedule of premium rates for differing Dun & Bradstreet scores. These rates build in a risk margin equivalent to the charge an insurer would make for costs of capital held for unexpected claims.77

However, PBGC’s lack of similar regulatory authority compared with FDIC and UK’s PPF could limit wholesale applicability of these other entities’ premium frameworks for PBGC. For example, according to PBGC officials, the agency has virtually no regulatory authority and no examination authority, and thus cannot routinely obtain the information that the FDIC has at its disposal as a regulator. Similarly, PPF functions as part of a larger pension regulatory structure, which includes The Pensions Regulator—the agency responsible for regulating pension plans in the UK. One of The Pensions Regulator’s stated objectives is to reduce the risk that PPF will need to take on unfunded liabilities. On its website, The Pensions Regulator lists examples of the regulatory actions it can take against plan sponsors to protect the security of participants’ benefits. In contrast, the oversight of pensions in the United States is more diffused with different authorities residing within the Employee Benefits Security Administration, the Internal Revenue Service, and PBGC. PBGC officials noted that the President’s proposal for a more risk-based premium structure called for an analysis and public comment process, in part, to help address PBGC’s limited authority regarding the additional data and analysis needed to implement such a structure.

Other differences between PBGC and the UK’s PPF may also limit the applicability of PPF’s premium framework for PBGC. For example, the governance structure of U.S. single-employer pensions and UK pensions differ significantly. According to The Pensions Regulator’s website, UK pension law requires that at least one-third of individuals responsible for administering the plan, or plan trustees, must be selected by plan participants. In contrast, there is no requirement for stakeholder representation among fiduciaries of U.S. single-employer plans.78

77The Dun & Bradstreet failure score is designed to predict the likelihood that a company will cease operations without paying all creditors over the next 12 months. This includes the onset of failure such as a meeting of creditors, administrator appointments, bankruptcy, receiver appointments, petitions for winding-up and other legal events.

Implementing a more risk-based premium structure creates governance challenges whether authority for premium setting rests with Congress, PBGC, or another entity. Premiums for PBGC’s single-employer program—both the flat-rate premium and the variable-rate premium—are currently set by statute and PBGC lacks the statutory authority to modify premium rates and structures on its own.79 Although legislation has been enacted to periodically adjust the level of premiums, this process has resulted in rates that do not adequately reflect the risk to PBGC’s financial condition.

In moving to more risk-based premium structure, Congress could decide to enact new premium rates directly. For example, Congress could establish a formula under which both financial risk and underfunding would jointly determine a plan’s premium (as shown earlier on table 6). The legislation could include fixed dollar caps (as in MAP-21) or limits on the annual percentage change in premiums.

But even if Congress were to decide to delegate authority over setting premium rates under a new structure, it could still maintain an important role in the process. For example, some experts we spoke with suggested that Congress could establish the broad framework for incorporating additional risk factors into PBGC’s premium structure, while leaving the detailed mechanics of how to construct such a structure to others with greater technical expertise. In addition, a number of pension experts we spoke with said that congressional oversight would be useful during the premium redesign process. Many supported regular reporting by PBGC to Congress on progress in developing and implementing a risk-based premium structure, with some going further to suggest that PBGC report

79 29 U.S.C. § 1306(a)(3)(A)(i), (E) and (F).
its proposed changes to the Congress with changes taking effect only if enacted into law.\textsuperscript{80}

While Congress has the authority to set and change premiums, PBGC has considerable expertise in reviewing relevant data to assist with designing a more risk-based premium structure. In many ways, as the implementing agency of the current premium structure, PBGC is uniquely situated to obtain and analyze the complex data needed to design and implement a more risk-based premium structure. However, if PBGC were granted statutory authority to redesign its premium structure, stronger governance and oversight of the agency may be required. MAP-21, enacted in July 2012, included certain changes to strengthen PBGC’s governance structure. For example, the act requires the Board of Directors to meet at least four times a year and convene one joint meeting per year with the PBGC Advisory Committee. It also requires the addition of a PBGC risk management officer,\textsuperscript{81} a participant and plan sponsor advocate,\textsuperscript{82} and a study of the governing structure of PBGC.\textsuperscript{83} MAP-21 also requires the Board of Directors to establish a policy to identify and mitigate potential conflicts of interest.\textsuperscript{84}

However, even with the recent legislative changes, concerns with PBGC’s governance structure with respect to implementing a risk-based premium structure would persist. Our prior work has found that the current size of PBGC’s board is not sufficient to include the diverse set of interests or

\textsuperscript{80}The President’s deficit reduction proposal to incorporate additional risk factors into the PBGC premium structure included a provision that would expressly provide for any regulation incorporating risk factors to be subject to congressional review under section 251 of the Contract with America Act of 1996, commonly referred to as the Congressional Review Act (Review Act). Pub. L. No. 104-121, § 251, 110 Stat. 847, 868-74 (codified at 5 U.S.C. §§ 801-805). Under the Review Act, federal agencies promulgating a major rule must submit a copy to GAO and both houses of Congress before it can take effect and Congress may enact a joint resolution of disapproval that is sent to the President, becoming law if he signs it. We report to the Congress on each major rule, summarizing and assessing the procedural steps taken by the federal agencies in promulgating them. Moreover, Congress always has the option of seeking to overrule any regulation through the usual legislative process.

\textsuperscript{81}§ 40231(a)(2) and (c), 126 Stat. 854-56 (codified at 29 U.S.C. § 1302(e) and (k)).

\textsuperscript{82}§ 40232, 126 Stat. 857.

\textsuperscript{83}§ 40231(f), 126 Stat. 855-56.

\textsuperscript{84}§ 40231(b), 126 Stat. 854-55 (codified at 29 U.S.C. § 1302)).
expertise needed to provide policy direction for PBGC. Some of the pension experts we spoke with maintained that PBGC’s current board structure is adequate to provide sufficient oversight, while others echoed our concerns, commenting that the Board of Directors needs to be more active and reflect a wider range of technical expertise and stakeholder interests should it be granted additional statutory authority with respect to implementing a more risk-based premium structure.

At the same time, some experts we spoke with also noted that certain safeguards could be put in place to help mitigate such concerns. For example, special temporary commissions—such as an independent advisory committee comprised of a range of stakeholders and experts—are a tool that can be used to formulate recommendations for specific policy areas. Along these lines, some pension experts we spoke with suggested establishing an independent advisory committee—comprised of knowledgeable representatives from a range of fields including academics, actuarial and labor experts—to play a formal role in the premium redesign process. Such an advisory committee could help ensure that the premium redesign process reflects stakeholder concerns and needed expertise. A number of redesign suggestions from various stakeholder groups have already emerged, such as setting caps on premium increases, offering a transition period for new rates, using an independent third-party measure of creditworthiness, and reducing adverse effects on sponsors produced by economic downturns and higher premiums by smoothing (averaging) premium rates over several years to reduce volatility.

In GAO-07-808, we recommended that PBGC’s board should (1) establish formal guidelines that articulate the authorities of the board members, their respective departments, and PBGC’s Director and (2) PBGC’s board should establish policies, procedures, and mechanisms for providing oversight of PBGC that are consistent with corporate governance guidelines. These recommendations have been implemented. For example, PBGC promulgated a final rule revising the board’s bylaws to specifically delineate roles and responsibilities of involved parties. 73 Fed. Reg. 29,985 (May 23, 2008). However, some of our more recent work shows that while the board has been meeting more often during the last few years compared to prior years, its members still have little time to devote to PBGC. See GAO-11-182T.

Similarly, the President’s recent proposal on deficit reduction called for the PBGC board to consult with individuals or organizations representing the interest of employees, plan sponsors, and the general public in designing a more risk-based premium structure.
Greater Transparency and Provisions for Recourse Would Be Necessary

A more risk-based premium structure would likely spur demand for procedures to increase the transparency of PBGC’s policies and technical work to bolster confidence in the agency’s ability to effectively implement such a system, including procedures for recourse in the event of the assessment of excessive or inaccurate premiums. Various concerns have been raised about the agency’s lack of transparency, especially related to the technical tools used to inform policy changes. Such a perceived lack of transparency could hamper public confidence in the agency’s efforts to implement a redesigned premium structure.

More specifically, some pension experts and plan sponsors we spoke with expressed concerns that PBGC’s operations are not clear or easily understandable, making it difficult to assess the accuracy and reasonableness of its estimates. Some pointed to the PIMS model, which is used to project the possible impact of policy changes on the agency’s finances. Although PIMS has undergone several external reviews by academics and the Society of Actuaries, among others, concerns about the model persist. In May 2012, such concerns were exacerbated by release of a PBGC Inspector General report critical of PIMS’ internal controls. The issues surrounding PIMS have contributed to a lack of confidence in the agency and its public estimates among some in the plan sponsor and business communities.

88Among the academic peer reviews of PIMS, most notable is the PIMS Technical Review Panel in November 1996 (sponsored by the Pension Research Council at the Wharton School, University of Pennsylvania). More recently, the Society of Actuaries, used PIMS to prepare a report on pension contributions, published in 2011. PBGC officials also noted that in 2003, PIMS was reviewed by a major investment bank, which was tasked by PBGC with quantifying the value of the PBGC put. Initially, the bank’s analytic team planned to use its own models to perform this analysis. However, after reviewing PIMS and determining that PIMS produced results consistent with their models, the lead consultant decided to use PIMS for the project rather than their own models.

89Specifically, the Inspector General found that PBGC had published erroneous and inconsistent results in its 2010 exposure report and that PBGC’s Policy Research and Analysis Department failed to conduct documented reviews of the underlying support used for the report and lacked quality control policies to ensure the integrity of reported estimates. See PBGC Office of Inspector General, Ensuring the Integrity of Policy Research and Analysis Department’s Actuarial Calculations, PA-12-87 (Washington, D.C.: May 2012). For further details, see appendix VI.

90Our prior work has noted that the ultimate success of a major policy change—such as the redesign of PBGC’s statutory premium structure—depends, in part, on having reliable data and credible analysis to provide a compelling rationale for the proposed change. See GAO-05-325SP.
To increase the transparency of any processes that PBGC may be authorized to use to calculate risk factors, experts we spoke with generally supported adopting various other safeguards,\(^91\) including the following:

- **Disclosing the methodology for creating risk profiles.** Require publication of the methodology used to create sponsors’ risk profiles, while continuing to safeguard any non-publicly available information used in actually calculating risk-based premiums.\(^92\)

- **Publishing a risk-based premium schedule.** Require publication of a schedule that includes information such as premium rates and key dates for plan sponsors.

- **Soliciting public feedback.** In redesigning the premium structure, include a mechanism for soliciting public feedback—either through a public comment period or by holding public hearings—to improve the transparency of the process.\(^93\)

- **Increasing congressional reporting and oversight.** Require PBGC to regularly report to Congress—either through testimony or written report—on progress made on implementing a risk-based premium structure. Such reports could contain specific information related to risk-based premiums, such as risk measures, cross indicators, and premiums by industry.

Finally, it is also important to bolster confidence in a redesigned premium structure by including provisions for recourse if a sponsor wishes to appeal its risk assessment. For example, PPF officials told us that in the UK, they were required to implement an appeals process allowing plan

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\(^91\)The President’s deficit reduction proposal included safeguards similar to the suggestions outlined here. See Office of Management and Budget, “Living Within Our Means and Investing in the Future, The President’s Plan for Economic Growth and Deficit Reduction,” (September 2011).

\(^92\)The President’s 2013 budget proposal to incorporate additional risk into the PBGC premium structure would prohibit publicly disclosing information used to determine premiums for plan sponsors, and PBGC already protects confidential information.

\(^93\)In previous work, we found that for policy reconsideration efforts of this scale, success depends, in part, on including a clear and transparent process for engaging the broader public in the debate over recommended changes. See GAO-05-325SP.
sponsors to request a review of their case if they believed there was a mistake in the calculation of the plan-based premium or the underfunding component of the risk-based premium.\footnote{According to PPF’s website, plan sponsors have 28 days to appeal their premium invoice. If a plan sponsor believes its failure score is inaccurate, they are instructed to contact Dun & Bradstreet directly.} They also noted that in the initial year during which risk-based premiums were levied (2006/07), sponsors filed approximately 200 appeals (or approximately 3 percent of an estimated 7,800 plans).\footnote{This includes the number of appeals directed to PPF. Total number of appeals, including those relating to the Dun & Bradstreet failure score, was 1,500 in 2006/7 and 560 in 2011/12.} However, 5 years later, in the most recent premium year (2011/12), the number of appeals had dropped to 70 (or approximately 1 percent of an estimated 6,550 plans),\footnote{This figure reflects the number of PPF-insured plans as of March 31, 2011, the most recently available data.} suggesting that sponsor confidence in PPF has grown.

PBGC faces a number of challenges in its role as insurer and protector of pension benefits under DB systems that millions of Americans depend on for their retirement security. To remain financially solvent, PBGC relies on returns on its investments as well as premiums. However, the number of DB plans has been falling and premium rates have not adequately reflected the level of risk posed to PBGC for losses resulting from new claims. If PBGC’s current financial challenges are not addressed, the agency could ultimately face insolvency, potentially resulting in a need for legislative changes either to make painful reductions to participant benefits or significant additional increases in premiums, or to provide for taxpayers to cover these costs. A key objective of redesigning PBGC’s premium structure would be to ensure that premium revenue keeps pace with future claims and that the new structure is designed to decrease cross-subsidization between financially healthy and unhealthy sponsors. By adopting a structure that allows rates to better align with the risk posed by individual plans and sponsors, Congress has an opportunity to help PBGC contain its deficit and strengthen PBGC’s ability to remain solvent into the future.

\section*{Conclusions}

PBGC faces a number of challenges in its role as insurer and protector of pension benefits under DB systems that millions of Americans depend on for their retirement security. To remain financially solvent, PBGC relies on returns on its investments as well as premiums. However, the number of DB plans has been falling and premium rates have not adequately reflected the level of risk posed to PBGC for losses resulting from new claims. If PBGC’s current financial challenges are not addressed, the agency could ultimately face insolvency, potentially resulting in a need for legislative changes either to make painful reductions to participant benefits or significant additional increases in premiums, or to provide for taxpayers to cover these costs. A key objective of redesigning PBGC’s premium structure would be to ensure that premium revenue keeps pace with future claims and that the new structure is designed to decrease cross-subsidization between financially healthy and unhealthy sponsors. By adopting a structure that allows rates to better align with the risk posed by individual plans and sponsors, Congress has an opportunity to help PBGC contain its deficit and strengthen PBGC’s ability to remain solvent into the future.
Determining whether—and if so, how—to redesign and implement a more risk-based premium structure will require new tools, new data, and new processes. PBGC’s hypothetical model created to illustrate different premium options and its analyses of the effects of incorporating an additional risk factor are extremely useful tools for informing the debate on how PBGC’s premium structure might be redesigned. However, these efforts are only a first step. As illustrated by other risk-based premium structures implemented in this country by the FDIC and abroad by the UK’s pension insurance fund, options exist to establish risk-based premiums using a broad array of financial data. Much like these agencies’ premium structures, PBGC premiums could be designed to identify each individual sponsor’s unique risk profile and charge each sponsor a specific risk premium sufficient to cover that sponsor’s risk. To ensure that any changes to PBGC’s premium structure are designed and implemented in a reliable and fair way, decisions will need to be informed by a wide range of perspectives. The continuing involvement of stakeholders in the form of an advisory committee to assist with implementing these changes could be helpful in improving the transparency and legitimacy of the new system, whether Congress retains its premium-setting authority or determines that the authority for premium setting should rest with PBGC or another entity.

Moreover, should a more risk-based premium structure be adopted, it will be important for the responsible rate-setting entity to have access to the right information and expertise to adequately assess risk to incorporate any new risk factors into the process on an ongoing basis. Revising sponsors’ financial reporting requirements—such as the reporting required under section 4010 of ERISA—could improve PBGC’s ability to collect key information that may be necessary to help the agency estimate its risk exposure to future claims and strengthen implementation of any changes to the premium structure. It will also be important to ensure that the rate-setting entity has adequate expertise to conduct rational evaluations of the future risk posed by plan sponsors in order to provide a sound basis for setting premiums accordingly in alignment with that risk. To this end, Congress has taken an important step with MAP-21 by establishing quality control requirements for PBGC, including an annual peer review of PIMS. Ensuring that this annual peer review includes review of the inputs and assumptions used in PIMS projections and resulting outputs, specifically as they relate to projecting PBGC’s future financial condition, would further enhance the transparency and credibility of any calculations used to support a more risk-based premium structure.
Also, should a more risk-based premium structure be adopted, it will be important to identify the financial impact that risk-based premiums would have on plan sponsors and on the future of the DB system. A more fully risk-based premium structure would presumably redistribute costs onto plan sponsors posing the greatest risk to PBGC—sponsors who may be financially weak. Congress and PBGC will need to consider the impact of this added burden on these plan sponsors, particularly during weak economic periods.

To help strengthen the PBGC insurance program, Congress should consider the following action:

1. Authorize redesign of PBGC’s premium structure to more fully reflect the risk posed by plans and sponsors to the agency, such as by providing for the incorporation of additional risk factors.

In addition, to improve PBGC’s ability to collect key information that may be necessary to help the agency estimate its risk exposure to future claims and strengthen implementation of any changes to the premium structure, Congress should consider the following action:

2. Provide PBGC with access to additional information needed to assess risk and assist in setting premiums, such as by expanding the criteria requiring plan sponsors to report under section 4010 of ERISA.

Moreover, to better understand the mechanics of how best to incorporate additional risk factors, improve transparency, and help inform the evaluation of the various redesign options, Congress should consider the following action:

3. Establish an independent premiums advisory committee reflecting a range of perspectives—including, for example, representatives from federal agencies, sponsors, actuaries, private insurers, and labor groups—to assist with such activities as developing the mechanics for incorporating additional risk factors and implementing new rates, as well as delineating a variety of alternative methods to address PBGC’s deficit.
To enhance understanding and better inform debate on the possible effects of moving to a more risk-based premium structure, during consideration of various redesign options and after a redesign may be authorized, we recommend that the Director of PBGC take the following action:

1. Continue to develop PBGC’s hypothetical model, analyzing various premium redesign options and their impacts on sponsors, and report the results to Congress. As part of these analyses, PBGC should evaluate the potential effects on sponsors of incorporating additional risk factors, such as company financial health and plan investment mix, and include an assessment to identify any potentially disproportional hardships on smaller companies that may result from the redistribution of higher rates to riskier sponsors.

We obtained written comments on a draft of this report from PBGC (see appendix IX). PBGC generally agreed with our findings and conclusions. PBGC believes that basing premiums on the actual risk of plan terminations would encourage and reward companies to keep DB plans, and that under a more risk-based approach, many financially sound companies would see their premiums decrease. PBGC also agrees with our finding that moving to more risk-based premiums is not likely to drive sponsors to abandon their DB plans, but characterized our analysis as showing that such claims have no evidence to support them. We would like to clarify that, in our previous work, we found that sponsors mentioned factors other than excessive premiums as the primary reasons for freezing or terminating their DB plans. We did not intend to imply that such concerns about the potential effects of risk-based premiums were unfounded or without any supporting evidence.

PBGC agrees with our finding that there are important implementation concerns in moving to a more risk-based premium structure and characterized our suggested ways to address these concerns as constructive, warranting further discussion. For example, some of these concerns could be addressed by Congress simply establishing a more comprehensive risk-based approach statutorily rather than delegating premium-setting authority to another entity such as PBGC.

PBGC supports our recommendation for agency action—specifically, that PBGC should conduct further analyses of premium options. PBGC notes that it is committed to continued development of the databases, models, and analyses of various premium redesign options and their impacts on
sponsors, and to report the results of these analyses to Congress. We welcome this commitment, as we believe that such efforts can contribute to adoption of a more effective and equitable rate-setting system, especially if these efforts include an evaluation of the potential for any disproportional hardships on smaller companies that may result from a more comprehensive risk-based structure.

PBGC supported our matters for congressional consideration in its letter and technical comments, with respect to authorizing a more risk-based premium structure, providing PBGC with improved access to key information concerning plan sponsors’ financial health, and establishing an independent premiums advisory committee reflecting a range of perspectives to improve transparency in the premium redesign process.

The Department of the Treasury also provided technical comments, which are incorporated into the report where appropriate. In addition, we received technical comments on certain segments of the draft report from PPF and FDIC, and have incorporated their comments where appropriate, as well.

As arranged with your offices, unless you publicly announce its contents earlier, we plan no further distribution of this report until 30 days from the date of this letter. At that time, we will send copies to the Secretaries of Commerce, Labor, and the Treasury, and other interested parties. In addition, the report will be available at no charge on the GAO website at www.gao.gov.
If you or your staff have any questions about this report, please contact me at (202) 512-7215 or jeszeckc@gao.gov. Contact points for our Offices of Congressional Relations and Public Affairs may be found on the last page of this report. GAO staff that made key contributions to this report are listed in appendix X.

Sincerely yours,

Charles A. Jeszeck
Director, Education, Workforce, and Income Security Issues
On July 6, 2012, the President signed into law the Moving Ahead for Progress in the 21st Century Act (MAP-21). Although pensions were not the primary purpose of the act, it included several provisions that pertain to the Pension Benefit Guaranty Corporation (PBGC). For example, the act changed the process for determining defined benefit (DB) plan funding requirements, increased premium rates for sponsors of single-employer and multiemployer DB plans insured by PBGC, and included several provisions to improve the governance of PBGC. Sections of the act related to PBGC are briefly summarized below, along with a table detailing the preliminary revenue scoring by the Joint Committee on Taxation for these changes.

PART I—PENSION FUNDING STABILIZATION

Sec. 40211. Pension funding stabilization.

The act changed how the minimum funding required for a single-employer plan may be determined. Specifically, it provided for adjustment of interest rates to be used in determining a plan’s funding target. Plans that take advantage of this provision in determining their required minimum funding must provide information on the impact of electing to do so in their annual funding notices.

PART II—PBGC PREMIUMS

Sec. 40221. Single-employer plan annual premium rates.
Sec. 40222. Multiemployer annual premium rates.

The act increases PBGC premium rates for both single-employer and multiemployer DB plans.

Effective beginning in 2013, the act changes the flat and variable premium rates and puts a cap on the variable-rate premium. Each flat or variable rate is subject to a different inflation adjustment, and the variable-rate premium cap has its own inflation adjustment.

Footnote:

1Pub. L. No. 112-141, 125 Stat. 405 (2012). The legislation was enacted primarily to authorize funds for highways, highway safety programs, transit programs and for other purposes.
PART III—IMPROVEMENTS OF PBGC

Sec. 40231. Pension Benefit Guaranty Corporation Governance Improvement.

The act amended the Employee Retirement Income Security Act of 1974 (ERISA) provisions relating to the PBGC Board of Directors, Advisory Committee, Director and other PBGC officials in various ways. Among other things, with respect to the Board of Directors, it established that a majority of its members constitutes a quorum and the vote of a majority of board members present shall be an act of the board. Under the provision, the board is to meet no less than four times a year with not fewer than two members present. At least one of those meetings must be with the PBGC Advisory Committee. It also provided that the PBGC Inspector General is to report to the board and at least twice a year attend a board meeting to report on PBGC operations. Furthermore, the provision clarifies the role of the General Counsel, and expressly provides that the Inspector General and the Inspector General legal counsel are independent of PBGC management and its General Counsel. The act includes specific requirements to PBGC’s Board of Directors and Director to avoid conflicts of interest and provides for PBGC to have a risk management officer. It expressly provided that the PBGC Board of Directors is ultimately responsible for overseeing PBGC and that the Director is directly accountable to the Board of Directors and can be removed by the Board of Directors or the President. It also set the Director’s term at 5 years unless removed before the expiration of the term by the President or the Board of Directors.

The act also stated the sense of Congress that (1) the Board of Directors should form committees, including an Audit Committee and an Investment Committee composed of at least two members, to enhance the overall effectiveness of the board, and (2) the Advisory Committee should provide the board with policy recommendations regarding changes to law that would be beneficial to PBGC or the voluntary private pension system.

The act also directs PBGC, not later than 90 days after enactment, to contract with the National Academy of Public Administration to conduct a study to include (1) a review of governance structures of organizations analogous to PBGC and (2) recommendations with respect to various topics relating to the Board of Directors, such as composition, procedures, and policies to enhance congressional oversight. The results of the study are to be reported within a year of initiation of the study to the to the Committee on Health, Education, Labor, and Pensions and the
Committee on Finance in the Senate; and the Committee on Education and the Workforce and the Committee on Ways and Means in the House of Representatives.

Sec. 40232. Participant and plan sponsor advocate.

The act requires the Board of Directors to choose a Participant and Plan Sponsor Advocate from the candidates nominated by the PBGC Advisory Committee. Among other things, this advocate is to act as a liaison between PBGC and participants in terminated pension plans, ensure that participants receive everything they are entitled to under law, and provide plan sponsors with assistance in resolving disputes with PBGC. Each year, the advocate will provide a report on these activities to the Committee on Health, Education, Labor, and Pensions and the Committee on Finance in the Senate; and the Committee on Education and the Workforce and the Committee on Ways and Means in the House of Representatives. The report is to summarize the issues raised by participants and plan sponsors, making recommendations for changes to improve the system.

Sec. 40233. Quality control procedures for the Pension Benefit Guaranty Corporation.

The act requires PBGC to contract with a capable agency or organization independent from PBGC, such as the Social Security Administration, to conduct an annual peer review of PBGC’s Single-Employer and Multiemployer Pension Insurance Modeling Systems (PIMS). The first reviews must be initiated no later than 3 months after enactment of the act.

The act also requires PBGC to develop written quality review policies and procedures for all modeling and actuarial work performed by PBGC’s Policy, Research, and Analysis Department, and conduct a record management and record keeping review. Finally, it requires PBGC to provide a timetable for addressing outstanding recommendations made by the Inspector General relating to the Policy, Research, and Analysis Department and the Benefits Administration and Payment Department.
Sec. 40234. Line of credit repeal.

The act repeals section 4005(c) of ERISA, which permitted PBGC to issue notes or other obligations in an amount up to $100,000,000.

Table 9: Preliminary Joint Committee on Taxation Score of Revenue Changes Caused by Surface Transportation Conference Report Related to Pension Funding Stabilization and PBGC Premium Provisions, Fiscal Years 2012-2022

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Pension funding stabilization</td>
<td>595</td>
<td>2391</td>
<td>4576</td>
<td>5144</td>
<td>3765</td>
<td>1671</td>
<td>274</td>
<td>-807</td>
<td>-2328</td>
<td>-3121</td>
<td>-2766</td>
<td>18142</td>
<td>9394</td>
</tr>
<tr>
<td>Cap single-employer variable rate</td>
<td>0</td>
<td>0</td>
<td>-140</td>
<td>-260</td>
<td>-280</td>
<td>-130</td>
<td>-60</td>
<td>-20</td>
<td>-10</td>
<td>-10</td>
<td>-10</td>
<td>-810</td>
<td>-920</td>
</tr>
<tr>
<td>Increased flat-rate premiums</td>
<td>0</td>
<td>200</td>
<td>400</td>
<td>400</td>
<td>500</td>
<td>530</td>
<td>600</td>
<td>630</td>
<td>630</td>
<td>670</td>
<td>2030</td>
<td>5130</td>
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<tr>
<td>Variable-rate premiums</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>760</td>
<td>1190</td>
<td>810</td>
<td>570</td>
<td>370</td>
<td>290</td>
<td>330</td>
<td>330</td>
<td>2760</td>
<td>4710</td>
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<tr>
<td>Multiemployer programs</td>
<td>0</td>
<td>20</td>
<td>15</td>
<td>15</td>
<td>25</td>
<td>25</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>40</td>
<td>100</td>
<td>255</td>
<td></td>
</tr>
<tr>
<td>Interaction</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>50</td>
<td>227</td>
<td>231</td>
<td>256</td>
<td>208</td>
<td>209</td>
<td>159</td>
<td>110</td>
<td>508</td>
<td>1450</td>
</tr>
<tr>
<td>Extension for Transfers/420 for life insurance</td>
<td>0</td>
<td>0</td>
<td>20</td>
<td>41</td>
<td>42</td>
<td>43</td>
<td>44</td>
<td>45</td>
<td>47</td>
<td>18</td>
<td>24</td>
<td>145</td>
<td>354</td>
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<tr>
<td>Net total revenue increases</td>
<td>595</td>
<td>2611</td>
<td>4871</td>
<td>6150</td>
<td>5469</td>
<td>3180</td>
<td>1679</td>
<td>426</td>
<td>-1132</td>
<td>-1964</td>
<td>-1602</td>
<td>22875</td>
<td>20373</td>
</tr>
</tbody>
</table>

Source: Joint Committee on Taxation.

The Budget of the United States Government, Fiscal Year 2013, includes information on the President’s budget priorities organized by agency. Administratively, PBGC is an entity within the Department of Labor. In the President’s budget, one of the funding highlights for the Department of Labor includes the following: “Safeguards workers’ pensions by encouraging companies to fully fund their employees’ promised pension benefits and assuring the long-term solvency of the Federal pension insurance system.” The President proposes accomplishing this by (1) raising $16 billion in additional premium revenue over 10 years through phased-in increases to PBGC’s flat- and variable-rate premiums, and (2) giving the PBGC’s Board of Directors the authority to adjust premiums.¹

(1) The administration proposed raising $16 billion in additional premium revenue over 10 years by raising $4 billion in additional flat-rate premiums and $12 billion in additional variable-rate premiums (see table 10). Relevant excerpts from the budget proposal are provided below.

- **Strengthen the Safety Net for Workers’ Retirement Benefits.** All Americans deserve a secure retirement. . . . The Pension Benefit Guaranty Corporation (PBGC), which protects the retirement security of 44 million workers in defined benefit pension plans, is also critical to the success of a robust pension system. When underfunded plans terminate, PBGC assumes responsibility for paying the insured benefits. PBGC is responsible for paying current and future retirement benefits to more than 1.5 million workers and retirees. PBGC receives no taxpayer financing and relies primarily on premiums paid by insured plans. PBGC premiums are currently much lower than what a private financial institution would charge for insuring the same risk and are insufficient for PBGC to meet its long-term obligations. As of the end of September 2011, PBGC faced a $26 billion deficit. The Administration proposes to encourage companies to fully fund their pension benefits and ensure PBGC’s continued financial soundness by giving the PBGC Board the authority to

¹The President also suggested various more specific ideas for changing PBGC’s premium structure in his deficit reduction plan. See Office of Management and Budget, “Living Within Our Means and Investing in the Future, The President’s Plan for Economic Growth and Deficit Reduction,” (September 2011). For example, in this plan, the President called for the PBGC board to consult with individuals or organizations representing the interest of employees, plan sponsors, and the general public in designing a more risk-based premium structure, and specified that total PBGC premiums for any plan would not exceed four times the amount payable with respect to the plan for the 2010 plan year, on a per participant basis.
adjust premiums to better account for the risk the agency is insuring. This proposal consists of two parts: a gradual increase in the single-employer flat-rate premium that will raise approximately $4 billion by 2022; and PBGC Board discretion to increase the single-employer variable-rate premium to raise $12 billion by 2022. This proposal would save $16 billion over the next decade. (p. 146)

Table 10: Proposed Budget Savings Listed under PBGC

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Improve PBGC solvency</td>
<td>—</td>
<td>-81</td>
<td>-1,828</td>
<td>-2,275</td>
<td>-2,316</td>
<td>-2,067</td>
<td>-1,713</td>
<td>-1,616</td>
<td>-1,874</td>
<td>-2,210</td>
<td>-6,500</td>
<td>-15,980</td>
</tr>
</tbody>
</table>

Source: Budget proposal, p. 231, Table S–9. Mandatory and Receipt Proposals (excerpt under Labor).

(2) The President’s fiscal year 2013 budget proposes giving the PBGC Board of Directors the authority to adjust premiums. Relevant excerpts from the budget proposal are provided below.

- **Shores Up the Pension Benefit Guaranty Corporation to Protect Worker Pensions.** The Pension Benefit Guaranty Corporation (PBGC) acts as a backstop to protect pension payments for workers whose companies have failed. Currently, the PBGC’s pension insurance system is itself underfunded, and the PBGC’s liabilities exceed its assets. The PBGC receives no taxpayer funds and its premiums are currently much lower than what a private financial institution would charge for insuring the same risk. The Budget proposes to give the PBGC Board the authority to adjust premiums and directs PBGC to take into account the risks that different sponsors pose to their retirees and to PBGC. This will both encourage companies to fully fund their pension benefits and ensure the continued financial soundness of PBGC. In order to ensure that these reforms are undertaken responsibly during challenging economic times, the Budget would require a year of study and public comment before any implementation and the gradual phasing-in of any premium increases. This proposal is estimated to save $16 billion over the next decade. (p. 147)

Rate Increases under the President’s Proposal

PBGC estimated the increases in the flat and variable rates that would be needed to reach the administration’s revenue targets over the 10-year period. PBGC estimated that the flat rate would need to double from the
current rate of $35 per participant to $71 in 2022, and the variable rate would increase almost eight-fold from its current rate of $9 per $1,000 of underfunding to $71 in 2022 (see table 11).

| Table 11: Increase in Premium Rates for the Single-Employer Program Estimated by PBGC for the President’s Fiscal Year 2013 Budget, Fiscal Years 2013-2022 |
|-------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Flat rate (dollars charged per participant)a    | $36.00 | 40.00  | 44.00  | 48.00  | 52.00  | 56.00  | 60.00  | 63.00  | 67.00  | 71.00  |
| Variable rate (dollars charged per $1,000 of underfunding)b | $9.00  | 15.88  | 22.76  | 29.64  | 36.53  | 43.41  | 50.29  | 57.17  | 64.05  | 70.93  |

Source: GAO analysis of PBGC data.

aThe flat-rate premium is calculated on a per participant basis. Under current law, the flat rate for fiscal year 2012 is $35 per participant, and is indexed to increases in the national average wage index, as determined by the Social Security Administration. 29 U.S.C. § 1306(a)(3)(A) and (F).

bThe variable-rate premium is calculated based on a plan’s level of underfunding whereby every $1,000 of underfunding is multiplied by the rate. Under current law, the variable rate is $9 per every $1,000 of plan underfunding. 29 U.S.C. § 1306(a)(3)(F).

This estimate is based on PBGC’s projections that assume plan participant levels would remain unchanged\(^2\) and unfunded vested benefit levels would decline significantly over the next decade,\(^3\) and that do not incorporate any additional risk factors into the variable rate. PBGC projected this decrease in underfunding (increase in funding) due to

\(^2\)To estimate the flat-rate premium for the single-employer program for fiscal years 2013 to 2022, PBGC projected that the total participant count in its insured DB plans in this program would remain unchanged. However, PBGC’s projection on the level of plan participants over the period stands in contrast to a decline in participants that PBGC has reported beginning in fiscal year 2005. We estimate that on average, participant levels have declined by about a quarter percentage point each year since 2005. Using a higher projected participant count would tend to overstate revenues for the period based on a per participant premium.

\(^3\)PBGC estimates that unfunded vested benefit levels would decrease from nearly $283 billion in fiscal year 2013 to just over $24 billion by fiscal year 2019, remaining close to that level for the remainder of the period. Based on this assumption, PBGC projects that even with rate increases proposed under the President’s budget, annual revenues from the variable rate will decrease from $2.2 billion in fiscal year 2013 to $1.7 billion in fiscal year 2022. The actual level of unfunded vested benefits in future years would depend on, among other factors, capital market factors such as stock market returns. Changes in PBGC’s assumptions about unfunded vested benefit levels could significantly affect the amount of revenue estimated to be collected through the variable rate.
several factors,\textsuperscript{4} including PPA funding requirements that will tend to bolster plan funding over this period.\textsuperscript{5}

However, PBGC used PIMS to make assumptions about future unfunded vested benefit levels for estimating premium rates for the President’s proposal, and PBGC officials recognize that uncertainty exists in the many economic factors and underlying assumptions used for this projection. In addition, the agency’s Inspector General recently identified internal control deficiencies related to actuarial estimates used in the agency’s PIMS model.\textsuperscript{6} We reviewed the PIMS data provided to us and conducted a meeting with PBGC officials to discuss the reliability of these data and some of the data used in its 2010 exposure report. We determined that the PIMS data provided to us and used by PBGC in its report were sufficiently reliable to provide information on the approximate magnitude of PBGC’s future financial condition and the mechanics of premium options.

Using the same assumptions PBGC used to estimate rates for the President’s fiscal year 2013 budget, we estimated the increases in rates that would be needed to reach a revenue target of $23 billion, the current level of PBGC’s deficit in the single-employer program. This scenario illustrates the increases in rates that would be required if no other sources of revenue were available to help address PBGC’s deficit, such as returns on investment. We found that under this scenario, the flat-rate premium would need to increase to $75 and the variable-rate premium to $106 by fiscal year 2022.

\textsuperscript{4}PBGC uses PIMS to estimate future underfunding under current and future funding rules as a function of a variety of economic parameters. PIMS models the effect of the PPA funding requirements and establishes a baseline for equity returns and interest rates over this period for the underfunding projection. See appendix VI for a description of PIMS.

\textsuperscript{5}Pub. L. No. 109-280, §§ 101, 102, 111, and 112, 120 Stat. 784-809 and 820-846. PPA introduced new funding requirements for single-employer DB plans beginning in 2008. It requires plan funding to be equal to 100 percent of the plan’s liabilities (these PPA funding target liabilities are not calculated using the same assumptions and methods as the liabilities to determine unfunded vested benefits for purposes of determining variable-rate premiums). The 100 percent funding target is phased in at 92 percent in 2008, 94 percent in 2009, 96 percent in 2010, and 100 percent in 2011 and later years. Any unfunded liability will have to be amortized—paid with interest—over 7 years.

Appendix III: Further GAO Analyses of a Risk-Based Premium Option

To better understand the impact on rates under one hypothetical risk-based option, we conducted additional analyses using data provided to us by PBGC from a premium option model PBGC designed to illustrate different premium scenarios. PBGC’s model used 2010 data from a sample of 2,699 DB plans covering 27.5 million participants. The model covered 81 percent of all PBGC insured participants (33.8 million) in 2010.

First, we analyzed the sample data to determine how the plans would be distributed based on their financial health and funded status. Results are summarized in table 12.

<table>
<thead>
<tr>
<th>Financial health</th>
<th>≥120%</th>
<th>≥90% to under 120%</th>
<th>75% to under 90%</th>
<th>&lt;75%</th>
<th>Total plans</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extremely healthy (1)</td>
<td>21</td>
<td>110</td>
<td>59</td>
<td>6</td>
<td>196</td>
</tr>
<tr>
<td>Very healthy (2)</td>
<td>58</td>
<td>349</td>
<td>155</td>
<td>24</td>
<td>586</td>
</tr>
<tr>
<td>Healthy (3)</td>
<td>55</td>
<td>527</td>
<td>367</td>
<td>68</td>
<td>1017</td>
</tr>
<tr>
<td>Risky (4)</td>
<td>20</td>
<td>215</td>
<td>203</td>
<td>85</td>
<td>523</td>
</tr>
<tr>
<td>Very risky (5)</td>
<td>15</td>
<td>118</td>
<td>178</td>
<td>66</td>
<td>377</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>169</strong></td>
<td><strong>1319</strong></td>
<td><strong>962</strong></td>
<td><strong>249</strong></td>
<td><strong>2699</strong></td>
</tr>
</tbody>
</table>

Source: GAO analysis of PBGC data from a sample of 2,699 defined benefit plans used in PBGC’s hypothetical premium model.

Next, we analyzed the effect of the rate changes under this option on the sample based on the number of participants in the sample of plans used in PBGC’s model, as shown in table 13. In total, we estimate that rates would decrease under the risk-based option over 2015 rates for plans covering a majority of participants in the sample when considering the per participant costs for sponsors, regardless of the funding status of a participant’s plan or the financial health of the participant’s sponsor.
We further analyzed the effect of the rate changes under this option on plans in PBGC’s sample. As table 14 shows, the distributional effect of premium changes for plans using this option varies based on a sponsor’s financial health and plan funding levels. We estimate that premiums for a majority of plans categorized as more financially healthy would decrease, due in part to the proposed increase in the flat rate to $49 per participant under the act compared to $44 per participant under this option. In the model, PBGC assumed that plans with 90 percent or greater funding levels and rated as either extremely healthy or very healthy for financial health would be considered as low risk for plan termination and would therefore not have a variable rate included in their premium calculation. We estimated that two-thirds of plans considered financially healthy would
have their rates decreased and that nearly all plans considered less financially healthy would experience a rate increase under this option.

### Table 14: Number and Percentage of Plans with Premium Rate Changes under One Hypothetical Risk-Based Option

<table>
<thead>
<tr>
<th>Plan funded status</th>
<th>Number of plans with increased rates (percent)</th>
<th>Number of plans with decreased rates (percent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;120%</td>
<td>90 (53%)</td>
<td>79 (47%)</td>
</tr>
<tr>
<td>&gt;90% to under 120%</td>
<td>770 (58)</td>
<td>549 (42)</td>
</tr>
<tr>
<td>75% to under 90%</td>
<td>408 (42)</td>
<td>554 (58)</td>
</tr>
<tr>
<td>&lt;75%</td>
<td>169 (68)</td>
<td>80 (32)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plan financial health</th>
<th>Number of plans with increased rates (percent)</th>
<th>Number of plans with decreased rates (percent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extremely healthy (1)</td>
<td>2 (1%)</td>
<td>194 (99%)</td>
</tr>
<tr>
<td>Very healthy (2)</td>
<td>16 (3)</td>
<td>570 (97)</td>
</tr>
<tr>
<td>Healthy (3)</td>
<td>598 (59)</td>
<td>419 (41)</td>
</tr>
<tr>
<td>Risky (4)</td>
<td>478 (91)</td>
<td>45 (9)</td>
</tr>
<tr>
<td>Very risky (5)</td>
<td>343 (91)</td>
<td>34 (9)</td>
</tr>
<tr>
<td>More financially healthy (1-3)</td>
<td>616 (34)</td>
<td>1183 (66)</td>
</tr>
<tr>
<td>Less financially healthy (4-5)</td>
<td>821 (91)</td>
<td>79 (9)</td>
</tr>
</tbody>
</table>

Source: GAO analysis of PBGC data from a sample of 2,699 defined benefit plans used in PBGC’s hypothetical premium model.
Appendix IV: The United Kingdom’s Pension Protection Fund’s Premium Structure

The United Kingdom’s (UK) Pension Protection Fund (PPF) employs a premium structure—which it refers to as a levy1— that includes a risk-based premium to help mitigate risk presented by sponsors of defined benefit (DB) plans.2 Beginning with its second plan year in 2006/07, risk factors have been incorporated into premium rates. PPF has experienced a surplus in its net financial position when comparing its assets and its liabilities. As of March 31, 2011, PPF had a $1.08 billion surplus, an increase of $480 million over the previous year.

Features of PPF’s Premium Structure

PPF sets a premium revenue target based on a long-term funding strategy of accumulating assets that are 10 percent larger than its liabilities. To meet its revenue target, PPF collects two types of premiums from plan sponsors: a risk-based premium and a plan-based premium. The risk-based premium is based on three risk factors—a plan’s asset investment mix, a plan’s funding level, and risk of sponsor bankruptcy, which PPF refers to as insolvency risk. The plan-based premium is based on the size of a plan and its liabilities. For plan year 2012/13, PPF is using the following formula to calculate the plan-based and risk-based premiums:

- **Risk-based premium**
  - underfunding risk modified by investment risk stress \((U^{\text{Inv}})\) x insolvency risk \((P)\) x levy scaling factor \((C)\)

- **Plan-based premium**
  - \(0.000085 \times h \times \text{smoothed liabilities} \times L\)

Table 15 describes the different components of PPF’s premium formula for plan year 2012/13.

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1PPF refers to plans as schemes and premiums as levies. For the purpose of this report, we continue to use plans and premiums when discussing PPF’s premium framework.

2We did not conduct independent legal analysis to verify the information in this section of the report but rather relied on a review of publicly available PPF documents and discussions with PPF officials.
### Table 15: Components of the United Kingdom’s Pension Protection Fund’s Premium Formula, Plan Year 2012/13

<table>
<thead>
<tr>
<th>Risk-based premium components</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Underfunding risk (U)</td>
<td>Represents the potential size of a plan’s claim on PPF. <strong>U</strong> is the underfunding amount of the plan determined by using the plan’s assets and liabilities, taking account of any valid contingent asset arrangements and deficit-reduction contributions. Contingent assets are assets that a sponsor puts forth to reduce potential losses to PPF. Asset and liability values used in calculating underfunding risk are adjusted based on an investment risk methodology (see below.)</td>
</tr>
<tr>
<td>Investment risk (INV)</td>
<td>An adjustment made to underfunding risk that takes into account risk posed by a sponsor’s investment strategy for its plans’ asset class structures. Different asset classes used for investing—such as bonds, equities, commodities, and hedge funds—are stressed according to risk and the value of assets in each asset class is increased or decreased as appropriate by the corresponding asset stress percentage <strong>INV</strong>.</td>
</tr>
<tr>
<td>Insolvency risk (P)</td>
<td>Represents the likelihood of a plan’s sponsor becoming insolvent and the plan potentially becoming a claim on PPF. <strong>P</strong> is a measure of risk of insolvency of the sponsor, taking into account the plan structure. Measures of risk insolvency are provided to PPF by Dun &amp; Bradstreet. <strong>P</strong> may be modified where there is a Type A contingent asset, which is a parent or group company guarantee to cover PPF losses should the plan terminate. PPF uses Dun &amp; Bradstreet failure scores to estimate a sponsor’s insolvency risk. Based on this score, a sponsor is placed in one of 10 premium bands, with each band assigned an associated premium rate. The premium rate for each band combines a component based on the Dun &amp; Bradstreet probabilities of insolvency for the failure scores in that band plus a risk margin based on unexpected risk for that band.</td>
</tr>
<tr>
<td>Premium scaling factor (C)</td>
<td>Scales down risk-based premium so that together with the plan-based levies, PPF will ensure that the total premium collected matches the premium estimate, which is based on long-term risk exposure. In the premium formula, this is represented as <strong>C</strong> and is .89 for 2012/13.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plan-based premium components</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiplier (H)</td>
<td><strong>H</strong> is a plan-based premium multiplier applied to every plan to cover the costs of capping(^5) the highest risk-based premiums—about 10% of the premium.</td>
</tr>
<tr>
<td>Liabilities (L)</td>
<td><strong>L</strong> is the plan’s estimated liabilities as of a certain date.</td>
</tr>
</tbody>
</table>

Source: GAO analysis of PPF data.

\(^a\)PPF describes contingent assets as those assets that occur when another company under the same corporate umbrella as a plan sponsor guarantees a portion of the plan’s liabilities, thereby reducing the plan sponsor’s risk of entering bankruptcy. Contingent assets can also occur when a plan sponsor (or a company under the same corporate umbrella) pledges assets—a bank account, land, or securities—that will go to the pension plans if a sponsor enters bankruptcy or when a party outside the sponsor’s corporate umbrella guarantees a portion of the plan’s liabilities, either through a letter of credit or a bank guarantee.

\(^b\)The risk-based premium is also capped to protect the most vulnerable plans. The cap for 2012/13 is 75 basis points (0.75 percent) of smoothed liabilities. Where the risk-based premium calculated using the above formula exceeds 0.75 percent of a plan’s liabilities, the cap is applied and the premium is decreased accordingly.

PPF allows plan sponsors to lower their premium by pledging contingent assets, which can be used to cover potential losses from underfunded plans that terminate and reduce the risk posed to PPF, and thus reduce their risk-based premium. PPF defines contingent assets in a number of ways. Type A contingent assets occur when another company under the same corporate umbrella as a plan sponsor guarantees a portion of the...
Appendix IV: The United Kingdom’s Pension Protection Fund’s Premium Structure

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**PPF’s Funding Strategy**

PPF’s funding strategy is formulated to meet the agency’s stated long-term goal of accumulating assets that are 10 percent larger than the agency’s liabilities by 2030, which represents a state of self-sufficiency. Initially, the premium estimate (the amount PPF aims to collect) reflected a “top down” approach in which PPF would decide upon the total level of premiums that it deemed appropriate in a given year, and adjusted the premium parameters accordingly on an annual basis. Beginning with the 2012/13 plan year, the funding strategy is revised to reflect a “bottom up” approach in which the parameters will be fixed for 3 years and, ideally, remain stable for 3 years between reviews, with the amount collected, floating with changes in risk.

**Potential Applicability of PPF’s Premium Structure for PBGC**

Specific components of PPF’s premium structure—such as use of additional risk factors for sponsor financial health and plan investment strategy, setting rates based on long-term budget estimates, and smoothing techniques—might have applicability for PBGC. However, there are substantial regulatory and fiduciary differences between PPF and PBGC. For example, PPF functions as part of a larger pension regulatory structure, which includes The Pension Regulator. One of The Pensions Regulator’s stated objectives is to reduce the risk that PPF will need to take on unfunded liabilities, and the agency has statutory

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3 The 10 percent margin is to cover the risk of longevity improvements greater than what PPF describes as its best estimate, and also the residual risk of future claims. The year 2030 is chosen as being the time at which the level of risk from future insolvencies is projected to be relatively low compared with the size of PPF.

4 This was discussed in more detail on pages 22-26 and 40-41 of this report.
authority to work with plan sponsors to mitigate these risks through increasing plan funding levels and other measures. In addition, UK pension law requires that at least one-third of individuals responsible for administering the plan, or plan trustees, must be selected by plan participants, while there is no requirement for stakeholder representation among fiduciaries of U.S. plans.
Appendix V: Overview of Pension Benefit Guaranty Corporation’s Process for Calculating Its Deficit

As required under ERISA, each year, PBGC calculates the corporation’s net financial position by determining the values of its assets, offset by the value of its liabilities, for the single-employer and multiemployer programs combined. According to PBGC, a primary objective of its financial statements, and specifically its net financial position, is to provide information that is useful in assessing the agency’s present and future ability to ensure that its plan beneficiaries receive benefits when due. Although long-term projections inherently contain a significant degree of uncertainty, a surplus net financial position signifies that, based on the assumptions used, PBGC estimates that it has sufficient assets to pay all current and future guaranteed benefit obligations; a deficit net financial position signifies that its assets are not sufficient to pay all future obligations. The deficit is calculated in conformance with generally accepted accounting principles, which, among other things, require making estimates and assumptions that affect the reported amounts of liabilities as of the date of the statement and that may change over time. In particular, liabilities included in the single-employer deficit calculation include those from claims already incurred and claims deemed probable in the near term, but not future claims beyond that. The main components of PBGC’s assets and liabilities and descriptions of how PBGC determines the values for each of those components are summarized in table 16. The amounts of assets and liabilities in these various categories, for fiscal year-end 2011, can be found in table 17 later in this section.


2Plans of companies with credit ratings below investment grade and multiemployer plans that may require future financial assistance are classified as “reasonably possible” terminations, rather than “probable” terminations. Although PBGC uses the estimates for reasonably possible plan terminations to assist with understanding the agency’s future financial condition, these estimates are not included in PBGC’s calculation of its deficit.
<table>
<thead>
<tr>
<th>Asset components</th>
<th>Description of valuation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Investments, at market</td>
<td>Investment assets are valued based on market prices, specifically, on the last sale of a listed security, on the mean of the “bid-and-ask” for nonlisted securities, or on a valuation model in the case of fixed income securities that are not actively traded. These valuations are determined as of the end of each fiscal year. Purchases and sales of securities are recorded on the trade date. PBGC marks a plan’s assets to market and any increase or decrease in the market value of a plan’s assets occurring after the date on which the plan is terminated must, by law, be credited to or suffered by PBGC.</td>
</tr>
<tr>
<td>Receivables, net (including premiums and investment income)</td>
<td>Premiums receivable represent the estimated earned but unpaid portion of premiums and past due premiums deemed collectible, including penalties and interest. Investment income is accrued as earned.</td>
</tr>
<tr>
<td>Cash and cash equivalents</td>
<td>Cash includes cash on hand and demand deposits. Cash equivalents are investments with original maturities of 1 business day and highly liquid investments that are readily convertible into cash within 1 business day.</td>
</tr>
<tr>
<td>Securities lending collateral</td>
<td>PBGC’s custodian bank requires collateral that equals 102% to 105% of the securities lent. The custodian bank either receives cash or noncash as collateral or returns collateral to cover mark-to-market changes.</td>
</tr>
<tr>
<td>Capitalized assets, net</td>
<td>Capitalized assets include furniture and fixtures, electronic processing equipment and internal-use software. These costs are shown net of accumulated depreciation and amortization.</td>
</tr>
<tr>
<td>Liability components</td>
<td></td>
</tr>
<tr>
<td>Total present value of future benefits, net</td>
<td>Net liabilities for future pension benefits that PBGC is or will be obligated to pay the participants of single-employer plans terminated and trusted, in accordance with the limits specified in ERISA, and plans that have $50 million or more of underfunding that PBGC believes will probably terminate in the near future.</td>
</tr>
<tr>
<td>Total present value of nonrecoverable future financial assistance</td>
<td>The estimated value of nonrecoverable future financial assistance to single-employer plans that are not able to meet their benefit obligations, including probable insolvent plans.</td>
</tr>
<tr>
<td>Payables, net (including unearned premiums, amounts due for purchases of securities and derivative contracts)</td>
<td>The liability for unearned premiums represents an estimate of payments received during the fiscal year that cover the portion of a plan’s year after PBGC’s fiscal year-end. Securities sold under repurchase agreements are valued at the amounts at which the securities will be subsequently reacquired.</td>
</tr>
<tr>
<td>Net position (loss)</td>
<td>Total assets minus total liabilities.</td>
</tr>
</tbody>
</table>


*a* An investment valuation model is a widely accepted method used in finance to compute the current value of an asset based on statistical inputs for cash flow expectations.

*b* In addition, derivative financial instruments are recorded at fair value and are included on the Statements of Financial Condition as investments and derivative contracts. Swaps are netted rather than recorded at gross levels for the individual contracts as “Receivables, net – Derivative contracts” (liabilities). PBGC invests in and discloses its derivative investments in accordance with the guidance contained in the FASB Accounting Standards Codification Section 815, Derivatives and Hedging.

*c* PBGC may classify an underfunded plan as a probable termination when, among other things, the plan’s sponsor is in liquidation under federal or state bankruptcy laws.

*d* In accordance with Title IV of ERISA, PBGC provides financial assistance to single-employer plans, in the form of loans, to enable the plans to pay guaranteed benefits to participants and reasonable administrative expenses. 29 U.S.C. § 1431. These loans, issued in exchange for interest-bearing promissory notes, constitute an obligation of each plan.
PBGC's Assumptions in Valuing Future Benefit Payments

Changes to the underlying assumptions used to value liabilities can have a material effect on PBGC’s net financial position and on any conclusions drawn about PBGC’s ability to pay all current and future guaranteed benefit obligations (from claims already incurred and those deemed probable in the near term) from assets on hand. According to PBGC, liabilities under the single-employer program are valued by estimating the present value of future benefits expected to be paid—that is, PBGC uses certain assumptions to adjust the value of future benefit payments to reflect the time value of money (by discounting) and the probability of payment (by means of decrements, such as for death or retirement). According to agency officials, the method the agency uses to account for liabilities is similar to the “mark to market” practices being required of private sector sponsors of single-employer DB plans, in accordance with FASB. The calculation requires an assumption about interest rates, which reflects how much could be earned in the future from investing today's dollars. Assuming a lower interest rate increases the present value of future payments or benefits.

PBGC develops its assumptions on discount rates based on group annuity prices, identified through a group annuity survey conducted by the American Council of Life Insurers. PBGC maintains that the annuity prices found on the survey reflect rates at which its liabilities (net of administrative expenses) could be settled in the market at September 30.

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3Mark to market is the practice of basing values on current market prices.

4In addition to the present value of future benefits calculated for the single-employer program, PBGC values the liabilities for the multiemployer program by calculating the present value of estimated nonrecoverable future financial assistance—that is, estimated nonrecoverable payments to be provided in the future to multiemployer plans that are not able to meet their benefit obligations.

5A single-premium nonparticipating group annuity is a contract between an insured entity, such as a plan sponsor, and an insurance company that transfers pension obligations from the plan sponsor or other insured entity to the insurance company, in return for a one-time payment to the insurance company. The insurance company thereby takes on the investment risk, longevity risk, and other risks inherent in pension obligations.
Appendix V: Overview of Pension Benefit Guaranty Corporation’s Process for Calculating Its Deficit

for the respective year via single-premium nonparticipating group annuities issued by private insurers.\(^6\)

PBGC notes that many factors, including Federal Reserve policy, changing expectations about longevity risk, and competitive market conditions may affect these survey rates. Using data from the annuity survey, PBGC establishes two interest rate factors to compute estimates of the present value of its liabilities—the “select” and “ultimate” rates.\(^7\) A decline in PBGC’s asset values can be particularly problematic if these interest rates remain low or fall, which raises PBGC’s liabilities, all else equal.

PBGC also notes that, over time, actuarial adjustments may occur as the result of new data (e.g., mortality experience, revised participant data), as well as from changes in valuation methodology, such as estimating liabilities on a group basis (“nonseriatum”) versus calculating a separate liability for each person (“seriatum”). Liabilities also will grow with the passage of time (as future benefit payments draw closer to payment), will decrease as benefits are paid out (discharging part of the liability), and will change with changes in interest rates and changes in other actuarial assumptions. These adjustments represent the change in the present

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\(^6\)GAO has reported that other than the survey conducted for PBGC, no mechanism exists to collect information on actual group annuity purchase rates. Compared to other alternatives, the PBGC interest rate factors may have the most direct connection to the group annuity market, but PBGC factors are less transparent than other, more direct market-determined alternatives, such as published, high-quality bond interest rates. Such long term bond rates may track changes in group annuity rates over time, but their proximity to group annuity rates is also uncertain. For example, a high-quality long-term bond interest rate may need to be adjusted downward to better reflect the level of group annuity purchase rates. GAO, Pension Benefit Guaranty Corporation: Single-Employer Pension Insurance Program Faces Significant Long-Term Risks, GAO-03-873T (Washington, D.C.: Sept. 4, 2003). PBGC officials noted that they recently had analyzed the relationship between group annuity rates and long term corporate bond rates and found that there was only a low correlation (0.377 with an r-square of 0.142) between the two over an 8-year observation period from December 2000 to September 2008.

\(^7\)These rates—also known as discount rates—effectively form a two-segment yield curve where cash flows that occur during the initial period are discounted by the “select” interest rate and those occurring after the initial period are discounted by the “ultimate” interest rate. For more on these rates see http://www.pbgc.gov/prac/interest.html.
value of future benefits that results from applying actuarial assumptions in the calculation of liabilities.\(^8\)

**PBGC's Fiscal Year 2011 Financial Statement**

For fiscal year-end 2011, PBGC reported net accumulated deficit of approximately $26.04 billion. To estimate the present value of future benefits, PBGC used a 20-year select interest factor of 4.31 percent followed by an ultimate factor of 4.26 percent for the remaining years. PBGC strengthened its mortality assumptions in 2011 (that is, it assumed longer life expectancy), which resulted in higher interest factors than would have been estimated under the previous mortality assumption.\(^9\) In addition, PBGC has estimated that as of September 30, 2011, 135 multiemployer plans\(^10\) will exhaust plan assets and need financial assistance from PBGC to pay guaranteed benefits and plan administrative expenses.\(^11\) A summary of PBGC’s deficit calculation for fiscal year-end 2011 is found in table 17.

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\(^8\)PBGC recently changed the actuarial assumptions on participant mortality it uses to estimate present value of future benefits. For September 30, 2010, PBGC reported using the 1994 Group Annuity Mortality 94 Static Table set forward 1 year, projected 26 years to 2020 using scale AA. Based on a 2011 study of PBGC’s participant mortality, PBGC reported adopting new healthy lives mortality tables for the June 30, 2011, and subsequent valuations. For June 30, 2011, PBGC used the Retirement Plan-2000 Combined Healthy (RP-2000 CH) Male and Female Tables, each set back 1 year and projected 21 years to 2021 using Scale AA. The number of years that PBGC projects the mortality table reflects the number of years from the 2000 base year of the table to the end of the fiscal year (11 years in fiscal year 2011) plus PBGC’s calculated duration of its liabilities (10 years in fiscal year 2011). PBGC reported that the study also recommended changes in the mortality assumptions for disabled lives which will also be implemented in the June 30, 2011, and subsequent valuations.

\(^9\)Annuity prices are based on both underlying interest rate and mortality assumptions. When greater longevity is assumed, a higher interest assumption is then needed to produce annuity rates that match those in the American Council of Life Insurers survey.

\(^10\)The 135 plans fall into three categories—plans currently receiving financial assistance; plans that have terminated but have not yet started receiving financial assistance from PBGC; and ongoing plans (not terminated) that the corporation expects will require financial assistance in the future.

\(^11\)PBGC does not provide assistance for the full amount of these multiemployer plans’ liabilities, and not all of PBGC’s financial assistance to multiemployer plans is nonrecoverable. But, as we have reported previously, only 1 of the 62 plans that received PBGC financial assistance between 1981 and 2009 had repaid its loan as of 2010. See GAO, *Private Pensions: Changes Needed to Better Protect Multiemployer Pension Benefits*, GAO-11-79 (Washington, D.C.: Oct. 18, 2010).
Appendix V: Overview of Pension Benefit Guaranty Corporation’s Process for Calculating Its Deficit

Table 17: PBGC Statements of Financial Condition for its Single-Employer and Multiemployer Programs, Fiscal Year 2011

Dollars in millions

<table>
<thead>
<tr>
<th></th>
<th>Single-employer program</th>
<th>Multiemployer program</th>
<th>Single-employer and multiemployer combined</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Assets:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investments, at market</td>
<td>$66,271</td>
<td>$1,720</td>
<td>$67,991</td>
</tr>
<tr>
<td>Receivables, net (including premiums)</td>
<td>3,049</td>
<td>13</td>
<td>3,062</td>
</tr>
<tr>
<td>Cash and cash equivalents</td>
<td>5,021</td>
<td>5</td>
<td>5,026</td>
</tr>
<tr>
<td>Securities lending collateral</td>
<td>4,587</td>
<td>0</td>
<td>4,587</td>
</tr>
<tr>
<td>Capitalized assets, net</td>
<td>32</td>
<td>1</td>
<td>33</td>
</tr>
<tr>
<td><strong>Total assets</strong></td>
<td>78,960</td>
<td>1,739</td>
<td>80,699</td>
</tr>
<tr>
<td><strong>Liabilities:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total present value of future benefits, net</td>
<td>92,953</td>
<td>1</td>
<td>92,954</td>
</tr>
<tr>
<td>Total present value of nonrecoverable future financial assistance</td>
<td>0</td>
<td>4,475</td>
<td>4,475</td>
</tr>
<tr>
<td>Total payables</td>
<td>9,273</td>
<td>33</td>
<td>9,306</td>
</tr>
<tr>
<td><strong>Total liabilities</strong></td>
<td>102,226</td>
<td>4,509</td>
<td>106,735</td>
</tr>
<tr>
<td><strong>Net position (loss)</strong></td>
<td>(23,266)</td>
<td>(2,770)</td>
<td>(26,036)</td>
</tr>
</tbody>
</table>


Over the last 20 years, PBGC has experienced marked swings in its annual net financial position for its single-employer program (see fig. 3). For example, by fiscal year-end 1990, PBGC experienced a $3.0 billion (in 2011 dollars) accumulated deficit, but by fiscal year-end 2000, PBGC’s deficit had shifted to a nearly $12.5 billion surplus (in 2011 dollars), in part due to fewer new claims, higher interest rates used to value liabilities, and investment gains. In recent years, PBGC has again reported growing deficits. Between fiscal year-ends 2008 and 2011, the single-employer program’s deficit grew from just over $11 billion (in 2011 dollars) to just over $23 billion. Much of this recent increase in its accumulated deficit was the result of investment losses and declines in interest rates in the wake of the economic downturn and the termination of a relatively small number of very large underfunded plans.
Figure 3: PBGC’s Surplus/Deficit for the Single-Employer Program, Fiscal Years 1980-2011

Dollars (in billions)

Source: GAO analysis of PBGC data.

Note: Data adjusted for inflation.
In 1998, PBGC began to use its Pension Insurance Modeling System (PIMS) to help the agency better understand and quantify its long-term risk and exposure to loss under different economic conditions and policy alternatives. Much like insurers of catastrophic risk (natural disasters), PBGC is vulnerable to large losses that occur with relatively low probabilities. With these types of insurance, the historic pattern of claims is not an adequate predictor of future experience. Instead, it is more informative to examine the underlying processes that give rise to claims and assess their likelihood of occurring. PIMS is a stochastic (randomly determined) simulation model designed to quantify the amount of risk facing PBGC’s two insurance programs. The model does not predict future claims. Rather, by fully exploiting the historic relationships of key economic variables, the model assigns probabilities to various levels of potential claims. PBGC uses this information to estimate its potential future financial positions. PIMS is also used to assess various policy alternatives—such as changes in plan funding requirements or PBGC’s premium structure—and their impact on PBGC’s financial condition. PIMS is not used to calculate the current deficit. (See appendix V for information on how PBGC calculates its deficit.)

PIMS randomly simulates elements in PBGC’s financial statement. The random effects in the simulation are based on measures of the historical volatility in key factors that underlie the pension insurance, including interest rates, stock market returns, and corporate bankruptcy rates. For each year in a simulation, the model randomly selects values for each element and, combining these factors, determines PBGC’s financial condition under that scenario. The model generates thousands of multiyear projections of PBGC’s future financial condition. The results from the different scenarios are compiled to show how frequently different types of outcomes are simulated. The frequency with which an outcome is simulated (for example, that PBGC attains a surplus in the next 10 years) estimates the likelihood of that outcome’s actual occurrence.

Step 1: Modeling the Underlying Mechanics

To project a range of PBGC’s possible future financial positions, PIMS must begin by modeling some of the underlying mechanics and relationships that feed into the simulated outcomes. These portions of the model include macroeconomic factors, corporate sponsor behavior, and pension plan behavior.

Macroeconomic Factors

According to PBGC, the most important variables in PIMS are two macroeconomic factors: stock returns and interest rates. Stock returns are modeled to fluctuate in the short-term but revert to a long-term
average, so each year’s S&P 500 return is equal to 10.4 percent plus a random disturbance. The disturbance is randomly selected to represent the historic distribution of stock returns. Interest rates, unlike stock returns, are correlated over time. To model interest rates, PIMS uses a simple random walk process whereby this year’s interest rate equals last year’s interest rate plus a random disturbance. Because stock returns are more likely to be high when factors related to the interest rate are falling, PIMS uses historical estimates to correlate the random disturbances that affect stock returns and interest rates.

Plan Sponsor Behavior

For plan sponsors, PIMS models measures of financial health and, from that, the probability of bankruptcy. The measures of financial health include financial ratios (i.e., equity-to-debt and cash flow-to-asset ratios), employment levels, and equity values. Financial ratios are modeled as a regression to long-term averages of these measures, with random disturbances. Employment and equity levels are modeled using a random walk process, and values for both measures are correlated based on their historical relationship. To model plan sponsor bankruptcy, PIMS measures the historical relationship between the probability of bankruptcy and firms’ employment levels and financial ratios. These factors, taken together, determine the probability that a sponsor will enter bankruptcy during a given period.

Pension Plan Behavior

To model pension plan behavior, PIMS uses a database with detailed information about a non-representative sample of 450 of the 28,000 plans covered by PBGC. These 450 plans represented about half of PBGC’s insurance exposure in the single-employer DB system.¹ The plans in the sample are weighted based on funding ratios to represent all plans insured by PBGC. Plan information in the PIMS database includes asset returns, sponsor contributions, participant composition, and benefit and salary levels.

- **Asset returns**: PIMS uses historical information of individual plans’ returns based on correlations with stock returns and interest rates. Each plan’s asset returns also has a random element that is not correlated to the simulated economic scenario.

¹As measured by Form 5500 filings.
- **Sponsor contributions.** PIMS models sponsor contributions in two different ways: (1) for projecting future claims, sponsors are assumed to make the minimum contribution required by Internal Revenue Code; and (2) for projecting variable-rate premium collections, a higher level of contributions reflects historical data on PBGC premium collections.

- **Participant composition.** PIMS models participant composition by simulating participants’ retirement, separation from employment, and death based on actuarial assumptions. In addition, the number of active participants in each plan fluctuates according to the sponsor’s total employment level.

- **Benefit and salary levels.** PIMS models benefit level growth as equal to the rate of inflation plus a fixed parameter to represent productivity growth. To model salaries paid, PIMS assumes that salaries grow with age and service to reflect merit and promotion, and average salary levels for a given age and service level grow at the rate of inflation plus productivity growth.

**Step 2: Combining Components into Simulated Scenarios**

In a simulation, PIMS uses these components of its model to project possible outcomes. PIMS first draws a series of stock returns and interest rates—called an economic scenario—one for each simulated year. Next, plan sponsors and pension plans are all subjected to the economic scenario to determine how they react and, ultimately, how it affects PBGC. To create a distribution of possible future outcomes, PIMS draws 500 unique economic scenarios and runs plan sponsors through each economic scenario 10 times for a total of 5,000 different simulations.

**Plan Sponsors’ Risk of Bankruptcy**

Each plan sponsor is brought through the series of economic scenarios. The model draws new financial ratios and employment levels for each sponsor in each simulated year and, based on that, assigns each sponsor a probability of bankruptcy. PIMS uses this probability to determine whether a sponsor enters bankruptcy during each scenario. To illustrate, PIMS models a sponsor’s chances of bankruptcy as a lottery urn filled with balls. If a sponsor has a 1 percent probability of bankruptcy during an economic scenario, its urn contains one ball to represent bankruptcy and 99 balls to represent survival to the next period. PIMS draws a ball from the urn for each of the times a firm is cycled through the model's
simulated economic scenarios. A sponsor enters bankruptcy during any simulation where PIMS draws the ball that represents bankruptcy. Plans sponsored by bankrupt sponsors are assumed to present a claim to PBGC if they are less than 80 percent funded. Otherwise a standard termination is assumed.

Pension Plans’ Risk of Underfunding

PIMS brings each pension plan through the economic scenario, with equity returns, interest rates, and its sponsor’s simulated employment level and plan demographics all affecting the plan’s assets and liabilities. By including minimum funding rules to simulations, PIMS calculates possible paths in underfunding within the constraints of existing funding rules. In addition, plan sponsors will be assessed PBGC premiums and make contributions to the plan. For purposes of modeling future claims in PIMS, it is assumed that employers will contribute the minimum required amount each year and that any credit balance remaining when any new funding rules take effect will be used to the maximum extent permitted until the balance is completely depleted.

PBGC’s Financial Position and Risk of Loss

Finally, PBGC is brought through the economic scenario. This includes effects on PBGC’s existing assets and liabilities from previously terminated plans, both from investment returns and from revaluations of liabilities due to changes in interest rates. The agency also makes benefit payments to trusteeed participants and collects premiums from sponsors. To determine premium revenue, PIMS estimates revenue associated with flat-rate premiums (based on each plan’s projected participant level) and variable-rate premiums (based on each plan’s projected funding level). PBGC may also experience a new claim associated with sponsor bankruptcy. When a plan sponsor enters bankruptcy, PIMS estimates the level of underfunding for benefits that PBGC guarantees; any plan funded at 80 percent or less becomes a claim on PBGC.

To project PBGC’s future financial condition, PIMS uses a detailed database of about 450 actual plans, sponsored by about 330 firms, which represent about half of PBGC’s insurance exposure in the single-employer DB system measured from the Form 5500 filings. The database includes the plan demographics, plan benefit structure, asset values, liabilities, and actuarial assumptions. It also includes key financial

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2A typical simulation consists of 5,000 different scenarios (500 unique economic scenarios, which PBGC and each plan and sponsor experience 10 times).
information about the employer sponsoring the plan. The PIMS database contains pension plan information from Schedule B of the Form 5500 (Annual Return/Report of Employee Benefit Plan). In addition, more recent data available from filings under section 4010 of ERISA is utilized for certain large underfunded plans.

### Step 3: Summarizing the Results

In its 2010 exposure report, PBGC estimates that out of 5,000 simulations, none project that PBGC’s single-employer program will run out of money within the next 10 years (fiscal year 2020). In the PIMS projection for the PBGC 2010 Annual Report, 2.5 percent of the simulations project that the program will run out of money by fiscal year 2030. A slight majority of the simulations result in improved or unchanged positions.

However, because some simulations result in very large deficits for the program, the average (mean) outcome is a decline in the program’s position from a deficit of $21.3 billion in fiscal year 2011 to a deficit of $24.2 billion (present value as of 2010) by fiscal year 2020 (see fig. 4). PIMS offers a range of probable outcomes, with high and low values calculated for each year. Although PBGC projects a zero percent probability that its single-employer program will be insolvent by the end of fiscal year 2020, as the figure shows, the high and low value estimates—which represent the 85th and 15th percentiles for the projections—ranges from a surplus of $4 billion to a deficit of nearly $53 billion for that fiscal year.\(^5\)

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5The mean projection for the single-employer program is based on a range of possible outcomes. For example, while the set of all single-employer results for this period includes “tail” financial positions from a surplus of $55 billion to a deficit of $157 billion, the difference between the projection’s high and low values ranges from a $4.0 billion surplus to a $52.5 billion deficit, significantly less than the full range.
Limitations of PIMS

PIMS is not a predictive model and it does not attempt to anticipate behavioral responses by a company to changed circumstances, such as changes to the premium structure. For example, the model has not been used to anticipate a sponsor’s behavioral reaction—such as voluntarily terminating or freezing their plans, or increasing plan funding above the minimum required, or changing plan asset allocation—to an increase in premiums or to the introduction of risk factors to premium rates. Various paths of underfunding can occur in the future, and PIMS does not allow PBGC to know which particular path of underfunding might occur or which particular firms might enter bankruptcy. However, PBGC assumes that the process that generates historical volatility in key variables is reasonably representative of the process that governs future volatility, and that PIMS provides for a reasonable evaluation of the likelihood that various economic scenarios can develop. By modeling real pension plans and incorporating minimum funding rules, PBGC uses PIMS to quantify the likelihood that various levels of exposure can develop under these conditions.
In May 2012, PBGC's Inspector General identified internal control deficiencies related to the agency's PIMS model. PBGC's Inspector General reported that the agency published its 2010 exposure report with erroneous and inconsistent results from its PIMS model. Furthermore, the Inspector General reported that PBGC's Policy Research and Analysis Department did not conduct any documented review of the underlying support used for the report and lacks quality control policies to ensure the integrity of reported estimates. The report made several recommendations to ensure the quality of this department's actuarial work products, including establishing policies and procedures to review contractor work performed with PIMS; establishing policies and procedures to retain supporting documentation of work done by department actuaries and actuarial contractors; and developing and documenting a strategic review of the process of creating actuarial reports to identify critical control points to increase quality control. PBGC's response to the Inspector General's findings includes a commitment to strengthening and documenting the quality assurance process, to posting a corrected report on PBGC's website, and to noting the errors in the forthcoming fiscal year 2011 exposure report. Relevant to these deficiencies, Congress also made improvements to PBGC in MAP-21. Under those amendments, PBGC is to contract with an outside agency or organization to conduct an annual review of PIMS, and PBGC officials noted that at their request, the Social Security Administration has agreed to conduct the review. The first reviews will be initiated no later than 3 months after the enactment of the act. Further, PBGC is also required to establish written quality control procedures for modeling and actuarial work done in the Policy Research and Analysis Department, including a record management review to determine records that must be retained. Within two months, PBGC is required to submit a report to Congress detailing a timetable for addressing recommendations from the Inspector General's recent report on the department, which was provided on September 6, 2012.

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Appendix VII: Plan Sponsors and Pension Experts Interviewed

We conducted interviews with a small judgmental sample of nine plan sponsors, selected to reflect a range of attributes, including company financial health, plan funded status, size of plan (based on the market value of the plan's assets), number of participants, status of plan (active or frozen), and union involvement.¹

- Comerica Incorporated, Dallas, Texas (financial services)
- Exelon Corporation, Chicago, Illinois (energy provider)
- General Electric Company, Fairfield, Connecticut (multiple industries)
- Lockheed Martin Corporation, Bethesda, Maryland (aeronautics/electronics)
- R.R. Donnelley & Sons Company, Chicago, Illinois (communications)
- The McClatchy Company, Sacramento, California (publishing)
- Tomkins PLC, London, United Kingdom (engineering/manufacturing)
- TOTAL S.A., Courbevoie, France (energy provider)
- Whirlpool Corporation, Benton Harbor, Michigan (home appliances)

¹To assist in identifying our sample of plan sponsors to be interviewed, we requested a random list of 180 plans from PBGC with certain descriptive information about each of the plans. According to PBGC, the spreadsheet of 180 plans they provided was randomly selected from a listing of all plans in PBGC's 2010 premium database that had readily available data regarding either the sponsor's credit rating for publicly traded companies or Dun & Bradstreet's score for private companies. PBGC officials said they sorted the list of plans in alphabetical order by company and then selected every 15th row to create the random sample of plans. PBGC provided information on company financial health and each plan's funded status, number of participants, market value of assets, and whether the plan was frozen or partially frozen. We added information on union involvement based on what we could discern from the plan names. We then selected an initial list of 18 plans, and another back-up list of 18 plans, that represented an array of characteristics for potential interviews. We were ultimately able to complete interviews with nine sponsors, listed here.
We also conducted interviews with pension experts reflecting a range of academic, actuarial, business, and labor perspectives from the institutions and organizations listed below.²

- American Benefits Council
- AFL-CIO
- American Academy of Actuaries
- American Enterprise Institute
- American Society of Pension Professionals and Actuaries
- Boston University
- Brookings Institution
- Covington & Burling
- Davis and Harman
- Drexel University
- Employee Benefit Research Institute
- ERISA Industry Committee
- Massachusetts Institute of Technology
- National Institute on Retirement Security
- The New School
- Pennsylvania State University
- Pension Rights Center
- Society of Actuaries
- Towers Watson
- United Auto Workers
- U.S. Chamber of Commerce

²To identify experts to contact, we began with the list of participants from a GAO forum held in 2005, and updated the list with suggestions from agency officials. See GAO, Highlights of a GAO Forum: The Future of the Defined Benefit System and the Pension Benefit Guaranty Corporation, GAO-05-578SP (Washington, D.C.: June 2005).

<table>
<thead>
<tr>
<th>For plan years beginning</th>
<th>Flat-rate premium (per participant)</th>
<th>Variable-rate premium (per $1000 of unfunded vested benefits)</th>
<th>Termination premium (per participant per year for 3 years)</th>
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<td>1974-1977</td>
<td>$1.00</td>
<td>-</td>
<td>-</td>
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<tr>
<td>1978-1985</td>
<td>2.60</td>
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<td>-</td>
</tr>
<tr>
<td>1986-1987</td>
<td>8.50</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1988-1990</td>
<td>16.00</td>
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<tr>
<td>1994-2005</td>
<td>19.00</td>
<td>9</td>
<td>-</td>
</tr>
<tr>
<td>2006</td>
<td>30.00*</td>
<td>9</td>
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<tr>
<td>2007</td>
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<tr>
<td>2010-2012</td>
<td>35.00</td>
<td>9</td>
<td>1,250</td>
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</tbody>
</table>

Source: GAO analysis of PBGC data.

*aFor each plan year beginning after 2006, this amount is adjusted annually based on changes in the national average wage index, as defined in section 209(k)(1) of the Social Security Act, (42 U.S.C. § 409(k)(1)). 29 U.S.C. § 1306(a)(3)(F). The premium rate will not decline even if the national average wage index declines. The adjusted premium rate is rounded to the nearest multiple of $1.

*bWhere dashes are shown, the variable-rate premium and termination premium did not yet exist.
October 17, 2012

Charles A. Jeszeck  
Director, Education, Workforce, and Income Security Issues  
United States Government Accountability Office  
Washington, DC 20548  

Re: PBGC Premiums (GAO Draft Report #13-58)  

Dear Mr. Jeszeck:

We appreciate the opportunity to comment on your report on redesigning and reforming PBGC’s premiums.

We are grateful that GAO supports proposals to reform and improve PBGC premiums. GAO has long recognized that PBGC’s premiums are inadequate to pay for its programs, as well as inappropriately designed. PBGC, under administrations of both parties has agreed, and has over the years advocated reform and redesign of PBGC premiums. As your report notes, other major federal insurance programs like the Federal Deposit Insurance Corporation, as well as the UK’s Pension Protection Fund, have been successfully risk-based for years.

In our view the current system is both inadequate and unfair. It punishes the vast majority of companies that are financially sound and unlikely ever to need PBGC insurance by making them pay for the failings of others. It punishes all companies by increasing premiums sharply during recessions, when they can least afford the additional costs. Basing premiums on actual risk would encourage and reward companies who keep sound defined benefit plans. Under this approach the large majority of companies and plans that are financially sound could see their premiums go down, and they would not have their premiums raised solely because of someone else’s underfunding.

We strongly support the recommendations in the report. We believe your report will be an important contribution to a discussion that is necessary for PBGC — and, in my opinion, traditional pensions — to survive.

One of the report’s major contributions is that it provides an independent analysis of some of the issues raised in response to the Administration’s proposal. In many instances, GAO provides analysis to show that potential objections to
implementing premium reform are unfounded. It shows, for example, that claims that premiums would lead companies to abandon defined benefit plans have no evidence to support them (p. 33).

In other areas, the report not only discusses legitimate concerns, but proposes ways to resolve them. Your discussion of concerns that PBGC might set unrealistic premiums offers several constructive suggestions on how to address those challenges (pp. 43-46). Some of these are consistent with the Administration’s proposals and some differ. We encourage further discussions of these suggestions and the options presented in your report.

Another helpful discussion is your analysis of the ways that premium redesign will affect different companies and plans differently, and your suggestion of ways that these considerations be taken into account. I think the discussion would be strengthened by recognizing and describing the fact that both the Congress and the Administration have already developed a variety of ways to ensure that individual companies are not unduly burdened by redesigned premiums (e.g., individual sponsor caps and schedule caps).

Your report also notes the importance that any decision-making process be transparent and suggests several ways to achieve that, including disclosure and public comment of the methodology in advance and providing for additional Congressional oversight. The report should note that many of these provisions were included in the Administration’s proposal in September 2011.

The draft report focuses almost entirely on the premium structure for PBGC’s single-employer program. This is understandable, because the issues involved in multiemployer pensions and PBGC’s multiemployer program are very different. We would encourage you to consider PBGC’s multiemployer premiums in the context of the various policy changes that will be considered prior to the sunset of the Pension Protection Act rules in 2014.

We are pleased that you have recognized both the extensive research and analytical work PBGC has undertaken to facilitate discussion and the much more extensive work that is yet to be done. As you recommended, we are committed to continuing to develop the databases, models, and analyses of various premium redesign options and their impacts on sponsors, and we will continue to report the results to Congress.

Your report notes that, in order to do so, PBGC will require more information about plans and their sponsors than is currently available to the government. It goes on to suggest that information requirements be revised to provide that information. Congress has historically given agencies with premium- and rate-setting authority the ability to require the submission of information necessary to carry out that authority. To avoid the risk of inappropriate burden on plans or sponsors from your recommendation, we would recommend that this authority be subject to the provisions of the Paperwork Reduction Act.
We are committed to expanding retirement plan coverage and protecting the retirement benefits of workers, retirees, and their families. These are difficult but very important issues. They are becoming even more critical as the baby boomers reach retirement age. It was both appropriate and timely that the Chairman of the Senate Committee on Health, Education, Labor and Pensions asked GAO to evaluate them. We hope that GAO continues to lend its expertise and to focus on these important issues, and we welcome the opportunity to be of further assistance.

Sincerely,

Joshua Gotbaum
Appendix X: GAO Contact and Staff Acknowledgments

GAO Contact

Charles A. Jeszeck, (202) 512-7215 or jeszeckc@gao.gov

Staff Acknowledgments

In addition to the contact named above, Margie K. Shields (Assistant Director), Ted A. Burik (Analyst-in-Charge), Margaret H. Childs, and Isabella Johnson were key contributors to this report. Also contributing to this report were David M. Chrisinger, Holly A. Dye, Edda Emmanuelli-Perez, Kimberly M. Granger, Gene G. Kuehneman Jr., Kathy D. Leslie, Thomas J. McCool, Sheila R. McCoy, Mimi Nguyen, Steven J. Sebastian, Salvatore F. Sorbello Jr., Cynthia S. Taylor, Frank Todisco, Walter K. Vance, John C (Jack) Warner, Orice M. Williams, and Craig H. Winslow.
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