INVENTORY OF CONSTRUCTION INDUSTRY PENSION PLANS FOURTH EDITION

A summary and analysis of key trends in plan demographics, cash flows, investments, funding, costs, and expenses from 2004 through 2013 for multiemployer defined benefit pension plans in the construction industry.





INVENTORY OF CONSTRUCTION INDUSTRY PENSION PLANS FOURTH EDITION

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Introduction and Executive Summary

The Mechanical Contractors Association of America, Inc. (MCAA) and Horizon Actuarial Services, LLC (Horizon) have partnered to compile this comprehensive inventory of historical data for multiemployer pension plans in the construction industry. This fourth edition of the inventory was compiled during 2015.

Purpose

The purpose of this report is to summarize and analyze key trends in construction industry multiemployer defined benefit plan demographics, cash flows, investments, funding, and costs over the ten-year period from 2004 through 2013. By analyzing these trends, readers and users of this report can better understand how construction industry plans have evolved over the past decade and where they may be headed in the future.

MCAA and Horizon have developed this inventory, analysis, and report for the benefit of all stakeholders acting in the best interest of maintaining and strengthening multiemployer plans for plan participants and beneficiaries and sponsoring employers jointly. It is hoped that the analysis provided in this report will guide responsible public officials making legislative and regulatory judgments affecting these plans, as well as judgments about these plans made by industry leaders, sponsoring employers, labor organizations, plan trustees and administrators, plan professional advisors, and plan participants.

This report also examines plan investment fees and operating expenses for construction industry plans. Plan trustees, administrators and sponsors may find this section of the report useful as a comparison and benchmarking tool for their plans as compared with other plans in their same size category.

In addition to the broad analysis in this report, which covers all plans in the construction industry, this report also contains four appendices:

Appendix A includes detailed exhibits that show how plans covering members of different trades within the construction industry compare with each other. The exhibits in Appendix A analyze many of the same plan characteristics and statistics covered in the main body of the report.

<u>Appendix B</u> includes separate exhibits for the subset of multiemployer plans covering members of the United Association of Plumbers and Pipefitters ("UA"). These exhibits may be useful as a comparison tool for trustees of plans covering Plumbers and Pipefitters.

Appendix C includes summary exhibits for all construction industry plans, including the number of plans by state and by certification status under the Pension Protection Act of 2006 (PPA). Also included for reference are the same summary exhibits for multiemployer plans in all industries.

<u>Appendix D</u> provides a listing of the construction industry plans included in the inventory, as well as their PPA certification statuses. The plans are listed by state and by city within each state. There is also a summary showing the number of plans domiciled in each state along with the number of participants and plan assets of plans in those states.

If you are an employer participating in one or more of these plans, the information in Appendix D may help you (and your accounting firm preparing audited financial statements) to comply with the disclosure requirements for multiemployer plans required by the Financial Accounting Standards Board (FASB).

Summary

It should come as little surprise that this inventory shows that the ten-year period from 2004 through 2013 was turbulent for construction industry pension plans. Financial markets have been volatile, and 2008 saw the biggest stock market collapse since the Great Depression. Construction work hours and employment also plummeted as a result of the financial crisis, compounded by restrictions in lending for private projects and cutbacks in public sector investment in building and other infrastructure projects.

Furthermore, industry demographic trends have worsened over the period covered by the report, as the number of active working participants has steadily declined relative to the numbers of inactive and retired participants in these plans. This makes it more and more difficult for plan trustees to correct any funding shortfalls by looking only to increase contribution rates for active workers.

When analyzing results separately by plan size, the report shows that large plans are more efficient at delivering benefits than smaller plans. Specifically, large plan investment fees (as a percentage of assets) and operating expenses (dollars per participant) tend to be lower as compared with smaller and medium size plans. Similarly, annualized investment returns for larger plans are proven greater than the returns for smaller plans for the past decade, though smaller plans did outperform larger plans during 2008 and 2009.



Introduction and Executive Summary

Highlights

The following are highlights from the analysis of the data in the 2015 edition of the inventory:

- Total number of plans: Based on the latest available Form 5500 data (in most cases, for plan years ending on or about December 31, 2013), there are 796 multiemployer defined benefit pension plans in the construction industry. Of those plans, 790 are solvent; the remaining 6 are insolvent and receiving assistance from the Pension Benefit Guaranty Corporation (PBGC).
- Total asset value and covered participants: The 790 solvent construction industry plans have total assets of \$238 billion, and they cover 4 million participants and their beneficiaries.
- Number of participating employers: More than half of construction industry plans have fewer than 100 participating employers. However, there are some plans with over 1,000 participating employers.
- Maturing plan demographics: Over the past decade (2004 through 2013) only a few plans logged increases in the number of participants who are actively working and having contributions made on their behalf. In fact, most plans reported decreases in the number of active participants. At the same time, most plans posted increases in the number of participants who are not currently working under the plan, including those who have retired and who are receiving benefits.
- Increasingly negative plan cash flows: Similarly, over the past decade, most plans reflected greater increases in their cash outflow relative to cash inflow. The increase in net cash outflow is due primarily to shifting demographics, with more and more participants retiring and beginning to receive benefits. For most plans, increases in benefit payments have outpaced increases in contributions (which may have been adopted to make up for funding shortfalls), resulting in greater reliance on investment returns to grow or preserve asset values.
- Volatility in plan investments: Investment returns over the past decade were very volatile and included the biggest collapse in the financial markets since the Great Depression. The median investment return for construction

- industry plans for calendar year 2008 was -23.4%. Over the ten-year period from January 1, 2004 to December 31, 2013, the median annualized return was about 5.9%. For comparison the median annualized return was also about 5.9% over the ten-year period from 2003 through 2012 and was 3.9% from 2002 through 2011.
- Improving plan funding: Plan trustees have taken significant action to improve their plans' funding levels in the wake of the 2008 market collapse. As of December 31, 2013, the median funded percentage was 86.9%. This is a significant improvement over the median funded percentage at the end of 2008 (68.1%), and slightly higher than the median funded percentage at the beginning of 2008 (86.2%).
- Improving PPA "zone" statuses: Similarly, in 2009, following the 2008 market collapse, 37.1% of plans were in the "green zone" under PPA; the remaining 62.9% of plans were in endangered status ("yellow zone") or critical status ("red zone"). For 2013, the percentage of plans in the green zone increased to 59.8%, leaving 40.2% of plans in endangered status or critical status. While investment gains from 2009 through 2013 were a major factor in this shift (noting that returns in 2011 were relatively flat), actions by plan trustees to improve their plans' funding levels also were significant.
- Greater efficiency among larger plans: Not surprisingly, larger plans tend to have lower investment fees as a percentage of assets as compared with smaller plans. Similarly, larger plans tend to have lower per-participant operating expenses than smaller plans. These results demonstrate that larger plans do actually achieve economies of scale in terms of investment management and plan operations and administration.
- **Differing results by trade:** As shown in Appendix A, there are noticeable differences in certain results when comparing plans in different trades within the construction industry. For example, plans in some trades tend to have more favorable demographics than plans in other trades. However, there are no significant differences between trades in certain other results, such as investment performance.



Introduction and Executive Summary

MCAA Commentary

As shown in prior editions of this report, and as reaffirmed in this 2015 edition, multiemployer pension plans in the construction industry have shown great resilience so far in the 21st Century. They have weathered two financial market downturns, ongoing demographic challenges, and an unprecedented slowdown in the construction markets and overall economy.

The past decade has also highlighted structural flaws in the multiemployer pension system. The passage of the Multiemployer Pension Reform Act of 2014 (MPRA) will help some of the most gravely distressed plans. Significant imbalances in the overall system, however, still remain.

Changes under MPRA

If a multiemployer plan goes insolvent, the Pension Benefit Guaranty Corporation (PBGC) will provide the plan with financial assistance to pay benefits to its participants and beneficiaries up to the PBGC guarantee level, usually much lower than under the plan's formula. PBGC's multiemployer program was projected to be unable to sustain the insolvencies of these deeply troubled plans. Failure of PBGC's multiemployer program would have further destabilized the multiemployer pension system.

Prior to the passage of MPRA, few tools existed for the small but significant number of multiemployer plans projected to go insolvent within the next several years. Now, under MPRA, the trustees of plans in "critical and declining" status – those plans projected to go insolvent in the next 15 to 20 years – have new tools to avoid insolvency. Trustees of these plans may elect to suspend benefits (subject to approval by the Treasury Department and ratification by participant vote), or apply to PBGC for a partition or facilitated merger.

MPRA also called for a significant increase in the flat rate premium multiemployer plans pay to PBGC, from \$12 per participant in 2014 to \$26 per participant in 2015. The new premium rate will automatically increase in future years with inflation. PBGC must issue a report to Congress by June 2016 on the sustainability of the multiemployer program, reflecting the higher premium rate and other changes under MPRA.

Additional Reforms Needed

In general, the new tools under MPRA are restricted to plans in critical and declining status. For plans not projected to go insolvent in the next 15 to 20 years, the primary means to correct funding shortfalls are unchanged: increase employer contribution rates, reduce the value of benefits earned by active employees in the future, or both. Plans in critical status may also reduce "adjustable" benefits such as early retirement benefits, but normal retirement benefits remain protected.

In other words, unless a plan is projected to go insolvent, the current system provides very limited tools to address funding shortfalls by modifying benefits that have already been accrued by participants. New employers are unwilling to begin participating in these plans, for fear of having to pay for the existing funding shortfall, or "withdrawal liability."

The result is an unbalanced risk allocation system that makes the remaining employers participating in these plans inclined (even eager) to exit them. Misperceptions and alarmist rhetoric — especially within the financial community — have had an unnecessarily negative impact on credit and bonding for participating employers. This in turn hinders these employers' competitive position in the market relative to firms that offer inferior pension benefits to their employees.

Further legislative changes are needed to give multiemployer plan trustees more tools to correct funding shortfalls and rebalance risks. Most notably, the "Composite Benefit Plan" design proposed by the National Coordinating Committee for Multiemployer Plans (NCCMP) would allow for improved balance of investment risk between employers and participants, while still providing stable lifetime retirement income. The proposed design would also eliminate withdrawal liability concerns for potential new employers, which would help plans reverse negative demographic trends and bringing stability and vitality to the system.

The Composite Benefit Plan proposal (previously called "Target Benefit Plan") is included in the "Solutions Not Bailouts" report by the NCCMP. More information can be found at www.solutionsnotbailouts.com.



This section of the report provides an overview of the methodology used in compiling the inventory and performing the analysis in this report. It also instructs users on how to read the graphs used throughout the report.

Form 5500 Data

Seven months after the close of the plan year (nine and a half months, with extension), every qualified pension plan must file a Form 5500 with the Internal Revenue Service (IRS) and the Department of Labor (DOL). The purpose of the form is to demonstrate that the plan has met the applicable requirements under the Internal Revenue Code and the Employee Retirement Income Security Act of 1974 (ERISA).

The inventory of construction industry pension plans is based on data from Forms 5500, which are available to the public.

Data Quality

The inventory is only as good as the Form 5500 data on which it is based. If a plan sponsor filled out a portion of the Form 5500 incorrectly, the errors will likely carry through to the inventory, and perhaps to the analysis.

However, since the inventory and analysis addresses general trends and averages, the effects of such errors should be minimal. Also, in certain cases, reasonable adjustments have been made to correct for missing or questionable data. In other cases, plans with missing or questionable data were excluded from the analysis for that plan year.

Please keep these considerations in mind when reviewing the results in this report.

Construction Industry Plans

The first step in compiling the inventory is to identify the multiemployer defined benefit pension plans in the construction industry.

Using Form 5500 data, it is relatively easy to identify which plans are defined benefit pension plans and which are multiemployer plans. However, it is a bit more challenging to identify which plans are in the construction industry.

Every plan lists a NAICS code on its Form 5500. NAICS stands for "North American Industry Classification System." Most construction industry plans list themselves under a construction industry NAICS code. However, some construction industry plans list themselves under other NAICS codes, such as pension funds or labor organizations.

Therefore, in determining which plans are in the construction industry, judgment was exercised in some cases to classify certain plans based on their names or the names of their sponsors. For example, a multiemployer defined benefit plan that included the words "Laborers," "Operating Engineers," or "Sheet Metal Workers" in its name would likely have been included in the inventory, even if its NAICS code was not a construction industry code.

In general, multiemployer plans covering union staff in construction industry trades were also included in the inventory. The inventory also includes a few plans covering participants in multiple industries. In other words, some plans cover participants in the construction industry as well as another industry.

Number of Plans in the Inventory

In total, the inventory contains 823 construction industry plans that filed a Form 5500 in the past 10 years, since 2004. Many of the exhibits in the report however focus on the 790 plans that have a recent Form 5500 filing (for plan years ending on or about December 31, 2013) and are not receiving financial assistance from the PBGC.

There are a few reasons for the reduction in the number of plans from 823 to 790. Some plans have merged with others, and a small number have gone insolvent (for example, 6 construction industry plans were receiving financial assistance from the PBGC during the latest plan year). A few plans may simply be missing data for their most recent Form 5500 filing. The declines in the plan counts were partially offset by a few new plans that were established in the past 10 years.



Comparisons with Prior Editions

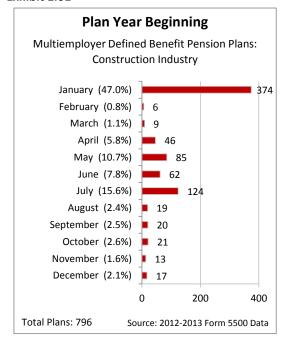
This is the fourth edition of the inventory report, and it is intended to be a stand-alone document. If the reader wishes to compare results in this edition of the report to those in prior editions, the following points should be considered:

- As part of each annual update to the inventory, the underlying historical data in the inventory is refreshed. Therefore, there are small differences in the historical results shown in this edition of the report versus prior editions.
- Unless otherwise noted, exhibits in this edition of the report exclude insolvent plans that are receiving financial assistance from the PBGC. Prior editions of the report simply excluded plans with negative or zero asset values.
- Exhibits in this edition of the report showing historical results exclude plans that have merged, gone insolvent, or terminated. Prior editions of the report simply excluded plans whose latest asset value was negative or zero. As a result of the change, historical exhibits have a more consistent plan population year after year; results are not affected by plans dropping out of the population due to merger, insolvency, or termination.
- In prior editions of the report, many exhibits showing historical trends focused on plans with calendar year (January to December) plan years, for the sake of consistency in timing. Focusing only on calendar year plans, however, excluded roughly half of the plans from the study. Most of the historical exhibits in this edition of the report include all plans, regardless of their plan year. Exhibits showing historical investment returns and funded percentages are still analyzed on a calendar year basis, however.
- Exhibits showing historical trends now include results for plan years beginning September through December with results for the following plan year. For example, 2013 results would include plan years beginning September 2012 through August 2013. (Note that at the time data is gathered for this report each year, recent Form 500 results for plan years beginning in August are fully available, but results for plan years beginning in September or later are not.)

Distribution of Plan Years

Exhibit 1.01 below shows the distribution of plans by their plan years.

Exhibit 1.01



Note that nearly half of the plans in the inventory with recent Form 5500 filings have "calendar year plan years," in other words, plan years that begin in January and end in December.

Most exhibits in this report include results for all construction industry plans, regardless of their plan years. Exhibits showing certain historical trends – specifically investment returns and funded percentages – include only plans with calendar year plan years, however. Focusing on calendar year results tied to investment returns allows for easier comparison against the broader market.

Also note that 71 plans (about 8.9% of the total) have plan years beginning in September through December. Exhibits showing historical trends include results for these plans in the column for the following plan year.



Large, Medium, and Small Plans

In analyzing certain results, the report lays out separate graphs for "large," "medium," and "small" construction industry plans, in addition to the entire population of plans in the inventory.

The report categorizes large plans as those with asset values of at least \$500 million, medium plans as those with asset values of at least \$100 million and less than \$500 million, and small plans as those with asset values of less than \$100 million. (See Section II for the distribution of plans by asset value.)

The dividing lines between the categories are somewhat arbitrary, but they provide interesting breakdowns of the results and meaningful sample sizes within each category. For example, many people may consider a large plan to have an asset value of at least \$1 billion rather than \$500 million. However, using \$1 billion as the dividing line would not provide a large enough sample size for those plans to allow meaningful comparisons.

The asset values used to categorize the plans by size are measured as of the end of the latest plan year for which the plan filed a Form 5500 and are measured at market value. Because the report classifies plans based on their latest asset value, as opposed to their asset value each year, plans will not shift between categories from one year to the next in historical exhibits, as they cross the \$100 million or \$500 million thresholds. This helps create consistent subgroups for comparisons when looking at historical results.

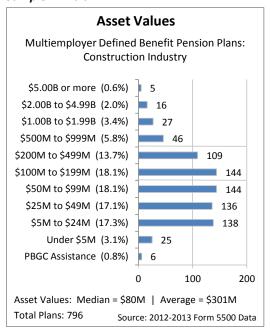
Note, however, that some plans shift between the large, medium, or small categories from the third edition of the inventory. Also note that a plan that is quickly approaching insolvency — in other words, its asset value is approaching zero — may be considered a small plan under this definition, even if it covers thousands of participants and would be considered large by other measures. There are very few plans in this category, but this should nevertheless be kept in mind when reviewing the results.

Snapshot Distribution Graphs

This report analyzes both historical trends as well as specific characteristics at a specific point in time. "Snapshot distribution" graphs are used to demonstrate how results are distributed at a specific point in time. See the sample exhibit below, which shows the distribution of plans by asset value (repeated later in the report as Exhibit 2.01).

Note that beside each category, the graph lists the percentage of plans in the population that fall into that category. For example, in the sample graph at right, there are 46 plans that fall into the category of "\$500M to \$999M," which represents 5.8% of the plans in the inventory. Percentages may not perfectly add to 100.0%, due to rounding.

Sample Exhibit



When reviewing the snapshot distribution graphs, note that the scale often widens as the plans get larger. Changing the scale makes the results easier to read and keeps very large plans from skewing the scale.

In general, snapshot distribution graphs will include all 790 construction industry plans in the inventory that filed a Form 5500 in either of the last two plan years ending on or about December 31, 2013 (in other words, based on "2012-2013" Form 5500 data). Plans with missing data are excluded.



Quartile Bar Graphs

To analyze historical trends, this report will often use "quartile bar" graphs, which show the range of results over the last ten years.

See the sample quartile bar graph below which shows net investment returns over the last ten years. Note the following:

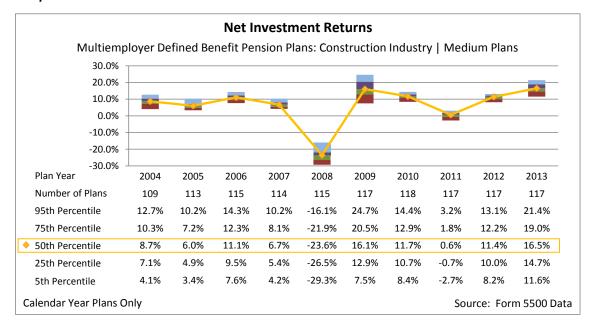
- The bars on the graph are divided into four sections. These represent the top (blue), second (purple), third (green), and bottom (red) quartile results.
- The gold line (—) running between the second and third quartiles represents the median or 50th percentile results. Note that these results are also delineated in a graphic box in the table of numbers below the quartile bars.
- To exclude outliers, results beyond the 95th and 5th percentiles are not shown. Therefore, the top quartile actually shows results from the 75th percentile to the 95th percentile, and the bottom quartile actually shows results from the 25th percentile down to the 5th percentile.
- Even though results above the highest 5 or below the lowest 5 percent are not shown, outliers may still be present. This is especially true in the upper end (when the blue bars are relatively higher).

- The numbers corresponding to the quartiles are shown in the table below the graph. The median results are outlined in gold.
- The title in the table includes a legend indicating which plans are included in the exhibit (such as industry, plan size, or trade). In the bottom left corner, there will be a notation if the exhibit includes only calendar year plans.
- The number of plans included is shown just below the years. Plans may be excluded from the sample in any given year due to missing or questionable data. This is a big reason why the number of plans changes year after year. To a lesser degree, plan terminations and mergers cause the counts to change.

For example, the quartile bar graph below shows historical net investment returns for medium plans in the construction industry. (Medium plans have asset values of at least \$100 million and less than \$500 million, as of their latest Form 5500 filing.) Only results for plans with calendar year plan years are included.

This graph is also included later in the report as Exhibit 5.01B.

Sample Exhibit





Section II: Plans in the Inventory

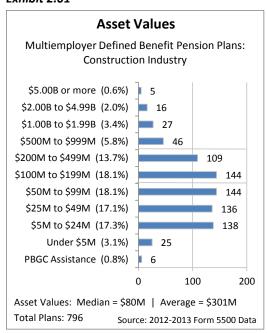
There are 790 solvent multiemployer construction industry plans in the inventory that filed a Form 5500 in either of the last two plan years, ending on or about December 31, 2013. This section shows the distributions of those plans by asset value, number of participants, and number of employers. In total, these construction industry plans have roughly \$238 billion in assets, and they cover 4 million participants and their beneficiaries.

Plans by Asset Value

Exhibit 2.01 below shows the distribution of construction industry plans by asset value. The assets are market values of assets as of the end of the latest plan year for which a Form 5500 was filed.

For example, for a calendar year plan, the latest Form 5500 was filed for the plan year beginning January 1, 2013, and the asset value would be as of December 31, 2013. For a plan year beginning on October 1, the latest Form 5500 was probably filed for the plan year beginning October 1, 2012, and so the asset value would be as of September 30, 2013.

Exhibit 2.01



The 790 solvent plans in the inventory had a median asset value of \$80 million. The average asset value was \$301 million, skewed by very large plans in the inventory.

There were 94 plans (11.9% of the total) with asset values of at least \$500 million, which are classified as "large" plans for purposes of this report. Among

these were 48 plans with asset values of at least \$1 billion; only 5 had assets of \$5 billion or more.

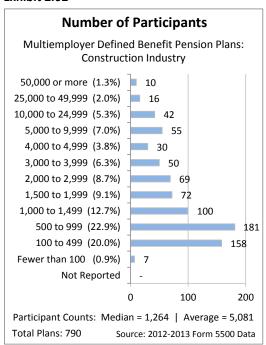
There were 253 plans (32.0% of the total) with assets of at least \$100 million but less than \$500 million. These plans are classified as "medium" in size for purposes of this report.

There were 443 plans (56.1%) with asset values less than \$100 million, which are classified as "small" plans. Among these were 163 plans with reported asset values of less than \$25 million; 25 plans had asset values of less than \$5 million.

Plans by Number of Participants

Exhibit 2.02 shows the distribution of construction industry plans by total number of participants as of the end of the latest plan year, usually on or about December 31, 2013. Participant counts include active participants, inactive participants with vested benefits, retired participants, and other beneficiaries. See Section III for definitions of the different types of participants.

Exhibit 2.02



The median number of participants covered under a construction industry plan is 1,264. The average number (again, skewed by very large plans) is 5,081.

The distribution of plans by number of participants is very similar to the range of plans by asset values. There were 68 plans (8.6%) with at least 10,000



Section II: Plans in the Inventory

participants. Of those plans, 26 (3.3%) had at least 25,000 participants, and only 10 plans (1.3%) had 50,000 participants or more.

There were 346 plans (43.8%) with fewer than 1,000 participants and 165 plans (20.9%) with fewer than 500 participants. Seven plans (0.9%) had fewer than 100 participants.

Plans by Number of Contributing Employers

Exhibit 2.03 shows the distribution of construction industry plans by number of contributing employers, as of the end of the latest plan year, on or about December 31, 2013.

Exhibit 2.03



The median number of contributing employers in construction industry plans is 65. The average (skewed by larger plans) is 203.

Of the plans that reported the number of contributing employers, 488 of them (62.8%) had fewer than 100 contributing employers, and 144 plans (18.5%) had fewer than 25 employers making contributions to the plan.

There were 28 plans (3.6%) with at least 1,000 contributing employers. Nine of these plans (1.2%) had 2,000 or more employers paying into the plan.

In the middle range, there were 261 plans (33.6%) with between 100 and 999 employers making contributions to the plan.

Plans by Trade and Geographic Region

Exhibit 2.04 on the following page shows the distribution of plans by trade and by geographic region. In addition to the number of plans, this exhibit shows the aggregate asset values and number of covered participants and beneficiaries.

Results are shown for different construction industry trades, in descending order based on the number of plans covering trade members. Note that:

- "Plumbers and Pipefitters" plans include plans covering the air conditioning, sprinkler, and refrigeration trades.
- There were too few plans in trades such as Boilermakers and Elevator Constructors to show them separately. Plans in these trades are included in the "other or mixed trades" category.
- Plans covering multiple trades are also included in the "other or mixed trades" category.
- In general, plans covering Teamsters are considered to be in the transportation industry and are therefore not included in the inventory.

See Appendix A for more detail regarding trade classifications.

Plans are also grouped by geographic region. The following table shows the postal codes of the states (as well as the District of Columbia) included within each region.

Region	States Included
New England	CT, ME, MA, NH, RI, VT
Mid-Atlantic	DE, DC, MD, NJ, NY, PA, VA, WV
Midwest	IA, IL, IN, KS, MI, MN, MO, ND, NE, OH, SD, WI
South	AL, AR, FL, GA, KY, LA, MS, NC, NM, OK, SC, TN, TX
West	AZ, AK, CA, CO, HI, ID, MT, NV, OR, UT, WA, WY

See Appendix D for a listing of construction industry plans by state, as well as a summary of plans, total asset values, and covered participants by state.



Section II: Plans in the Inventory

Exhibit 2.04

Construction Industry Trade	Geographic Region		New Ingland		Mid Atlantic		/lidwest		South		West	All-Regio	on —
Plumbers and	Number of Plans		7		42		52		29		18	14	48
Pipefitters	Total Assets	\$	935	\$	14.119	\$	7,992	\$	2,691	\$	5,614	\$ 31,3	-
, ipojiticis	Number of Participants	Y	10,004	Y	238,977	Y	85,707	Y	41,136	Y	58,770	434,5	
Electrical	Number of Plans		9		38		38		12		24	12	21
Workers	Total Assets	\$	1,177	\$	19,483	\$	7,368	\$	590	\$	8,209	\$ 36,82	27
	Number of Participants		14,602		627,473		93,593		15,226		92,953	843,84	47
Laborers	Number of Plans		4		38		18		1		16	:	77
	Total Assets	\$	1,843	\$	8,285	\$	12,328	\$	1,459	\$	6,425	\$ 30,34	40
	Number of Participants		27,642		175,309		190,516		44,341		114,783	552,59	91
Bricklayers and	Number of Plans		2		28		25		2		10	(67
Allied Crafts	Total Assets	\$	251	\$	2,590	\$	1,856	\$	68	\$	659	\$ 5,42	24
	Number of Participants		4,347		100,785		31,998		3,099		11,386	151,6	15
Iron Workers	Number of Plans		2		24		16		9		8	!	59
	Total Assets	\$	424	\$	6,724	\$	3,664	\$	813	\$	2,505	\$ 14,13	31
	Number of Participants		5,862		159,635		47,182		17,332		33,338	263,3	49
Cement	Number of Plans		2		16		19		6		15	!	58
Masons	Total Assets	\$	29	\$	1,759	\$	1,203	\$	19	\$	1,393	\$ 4,40	04
	Number of Participants		641		27,838		17,341		1,125		24,444	71,3	89
Carpenters	Number of Plans		4		11		17		9		11	!	52
	Total Assets	\$	3,793	\$	8,478	\$	15,608	\$	1,177	\$	9,330	\$ 38,38	
	Number of Participants		49,293		114,688		212,441		37,901		158,142	572,4	65
Sheet Metal	Number of Plans		3		12		22		7		10	!	54
Workers	Total Assets	\$	90	\$	4,968	\$	2,419	\$	270	\$	3,782	\$ 11,5	29
	Number of Participants		2,783		152,743		34,496		5,431		40,571	236,0	24
Insulators	Number of Plans		3		15		10		9		2		39
and Allied	Total Assets	\$	131	\$	1,203	\$	535	\$	168	\$	323	\$ 2,30	
Workers	Number of Participants		1,307		12,361		5,750		3,154		4,282	26,8	54
Operating	Number of Plans		4		15		7		-		9		35
Engineers	Total Assets	\$	1,226	\$	17,459	\$	8,017		-	\$	8,988	\$ 35,69	
	Number of Participants		13,649		277,144		73,634		-		115,071	479,49	98
Painters and	Number of Plans		2		3		17		-		9		31
Allied Trades	Total Assets	\$	363	\$	3,024	\$	1,966		-	\$	1,470	\$ 6,82	24
	Number of Participants		4,450		78,382		25,009		-		21,011	128,8	52
Roofers and	Number of Plans		3		7		11		-		2	:	23
Allied Workers	Total Assets	\$	118	\$	218	\$	2,202		-	\$	121	\$ 2,6	59
	Number of Participants		1,531		4,566		36,696		-		2,876	45,60	69
Other or	Number of Plans		-		14		10		1		1	:	26
Mixed Trades	Total Assets		-	\$	7,083	\$	10,366	\$	98	\$	93	\$ 17,6	39
	Number of Participants		-		60,465		140,898		2,332		3,606	207,30	<u> </u>
Construction	Number of Plans		45		263		262		85		135	79	90
Industry Total	Total Assets	\$	10,379	\$	95,394	\$	75,524	\$	7,355	\$	48,913	\$ 237,50	65
	Number of Participants		136,111	2	2,030,366		995,261		171,077		681,233	4,014,04	48

 ${\it Asset values \ are \ shown \ in \ millions \ of \ dollars.}$

Source: 2012-2013 Form 5500 Data

 $National\ and\ regional\ plans\ are\ classified\ geographically\ based\ on\ the\ address\ listed\ on\ their\ Form\ 5500\ fillings.$



Having favorable demographics is a key factor in the long-term sustainability of a pension plan. In general, it's better for a plan's overall population to have a higher proportion of younger, working participants than older, inactive or retired participants. This section of the report reviews plan demographics and how they have changed over the past decade.

Types of Participants

Following are definitions of the different types of participants shown in the exhibits in this section.

- "Active" participants are those individuals who worked enough hours or other measure of contribution, as of the end of the plan year, to earn (accrue) service credits under their plan.
- "Inactive" participants are those individuals
 who were not working enough as of the end of
 the plan year to accrue service credits, but who
 are entitled nevertheless to vested benefits due
 to their prior service under the plan. Inactive
 participants include:
 - "Deferred Vested" participants, who are entitled to vested benefits that are deferred to a future retirement date.
 - "Retired" participants, who are currently receiving benefits from their plan.
 - "Beneficiaries" who are either receiving survivor benefits earned by a deceased participant, or who are entitled to future survivor benefits.

Number of Participants

Exhibit 3.01 below shows the median participant counts for construction industry plans over the tenyear period from 2004 through 2013. Counts are those reported by the plan sponsor on the Form 5500 and are as of the end of the plan year. While the median number of participants for all plans may not be very relevant (as plans vary greatly in size), the overall trend is worth noting.

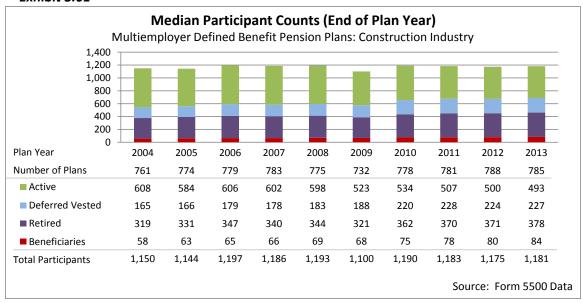
The median number of participants increased over the past decade, from 1,150 at the end of 2004 to 1,181 at the end of 2013. However, most of the increase was attributable to the inactive participant categories, which includes participants with deferred vested benefits, retirees, and beneficiaries.

There was a spike in counts for deferred vested and retired participants from 2009 to 2010, likely due to a drop in available work and an increase in retirements among those who were eligible to retire during and in the wake of the 2008 recession.

While the median number of inactive participants increased over the past decade, the median number of active participants decreased from 608 to 493, with some fluctuations from year to year.

Overall, plan populations are stable – growing perhaps slightly. However, the trends within plan participant categories are decidedly unfavorable overall. The number of active participants is declining or remaining steady, while the number of inactive participants is getting larger.

Exhibit 3.01





Participant Ratios

Another way to analyze plan demographics is to look at the *ratio* of active participants to inactive participants. In general, the higher the ratio of active participants to inactive participants, the easier it is for a plan to correct any funding shortfall by increasing contribution rates or decreasing future benefit accruals. On the other hand, a lower ratio usually means that it is more difficult for a plan to improve funding through these means.

As a pension plan matures, the ratio of active participants to inactive participants will naturally decline. Such changes can be manageable if they occur gradually. Yet still, long-term negative demographic trends must be reversed to ensure the continuing viability of plans.

However, sudden shifts in demographics due to sharp declines in employment levels are very difficult to manage. Nearly every construction industry pension plan suffered significant declines in demographic balance following the 2008 construction market collapse as many who were eligible to retire chose to do so because of the lack of work. This was made much worse by the severe losses to plan assets due to the stock market collapse that precipitated the economic recession.

Exhibit 3.02 below shows the distribution of these participant ratios for construction industry plans from the end of 2004 through the end of 2013.

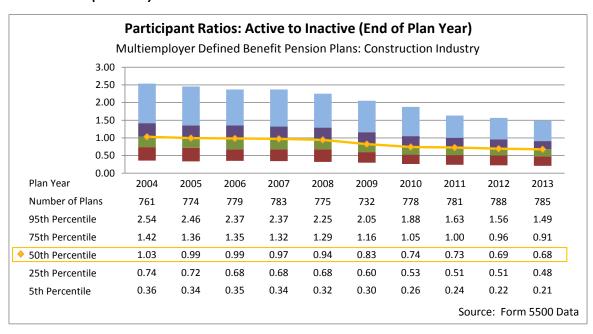
Focusing on the median results:

- At the end of 2004, the median ratio of active participants to inactive participants was 1.03. In other words, for the median plan, there were slightly more participants who were actively working and having contributions made on their behalf than there were participants who were not working.
- By the end of 2007, the median ratio had declined to 0.97. In other words, at the end of 2007, there were slightly fewer active participants than inactive participants.
- There was a sharp decline in the median ratio from 2008 to 2010, from 0.94 to 0.74. By the end of 2013, the median ratio had declined further, to 0.68. In other words, at the end of 2013, the median plan had fewer than 7 active participants to every 10 inactive participants.

MCAA Commentary

Without changes to the current system, many plans will not be able to sustain worsening demographic trends over the long term. In the economy overall – and in high-skilled occupations especially – the demand for qualified replacement workers is currently outpacing the supply available in the industry. Legislative changes are needed to encourage new employers and more workers to join these plans, bringing renewed vitality to the system.







It's important to note that not all construction industry plans have the same demographic characteristics. Some plans have a healthy balance between active and inactive participants. Others are more mature, with inactive participants significantly outnumbering active participants.

For example, at the end of 2013:

- There were 5% of plans with a ratio of 0.21 or worse (5th percentile). Those plans had more than 4 inactive participants to every 1 actively working participant – a very unhealthy ratio.
- On the other end of the spectrum, 5% of plans had a ratio of 1.49 or better (95th percentile).
 Those plans had about three active participants to every two inactive participants – a healthy ratio.
- The range in participant ratios from the 25th to 75th percentiles is 0.48 to 0.91, a considerable difference among plans representing the middle 50% of the population.
- Overall, about 75% of all construction industry plans had less than 1 active participant for each inactive participant in the plan.

MCAA Commentary

There are many factors that could cause one plan to have more favorable demographics than another. Perhaps some plans are better off because their unions were better able to organize new employers. Geographically, some markets are more competitive, with strong hours and a backlog of work. Industry leaders and public policy officials should analyze the reasons for and encourage these positive trends.

An expanding share of a robust construction market is far better over the long term than a high percentage share of a stagnant market. The risk imbalance in the current multiemployer funding rules can be a substantial detriment to restoring long-term demographic balance in these plans. Legislative reforms are needed to eliminate the reluctance of new employers to sign on to participate in the multiemployer pension system.

Differences by Plan Size

The following page includes three separate exhibits showing the participant ratios for large plans (assets of at least \$500 million), medium plans (assets of at least \$100 million and less than \$500 million), and small plans (assets less than \$100 million).

Note the following:

- For the large plans (Exhibit 3.02A), the range of participant ratios is much narrower than for the overall population (Exhibit 3.02). For example, at the end of the 2013 plan year, the range of participant ratios from the 5th to 95th percentiles was 0.40 to 1.18 for large plans, compared with 0.21 to 1.49 for the overall population. The range of participant ratios from the 25th to 75th percentiles was 0.56 to 0.88 for large plans, compared to 0.48 to 0.91 for the overall population.
- Most of the variability in the overall population comes from the small plans (Exhibit 3.02C). For example, at the end of the 2013 plan year, the range of participant ratios between the 5th and 95th percentiles was 0.08 to 1.65, and the range from the 25th to 75th percentiles was 0.45 to 0.90 – both of which are wider than for the overall population.
- Medium plans (Exhibit 3.02B) have somewhat higher 2013 median participant ratios (0.73) than large (0.70) or small (0.63) plans. This may be a somewhat unexpected result.
- There may be a loose relationship between a plan's size and its ability to sustain healthier demographics. Perhaps there is a "sweet spot" where a plan is neither too small nor too large within its jurisdiction? Whatever the case may be, the data in the inventory does not provide any basis for cause-and-effect analysis. The analysis in this report did not investigate this relationship.



Exhibit 3.02A (Large Plans)

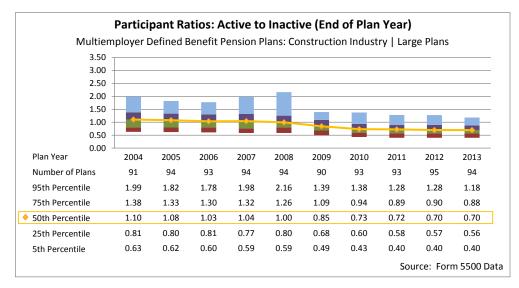


Exhibit 3.02B (Medium Plans)

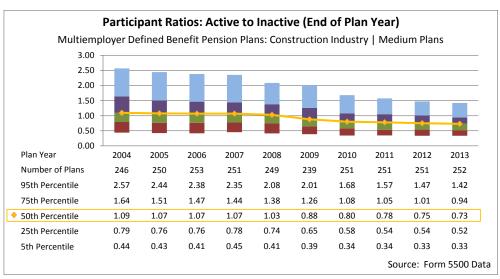
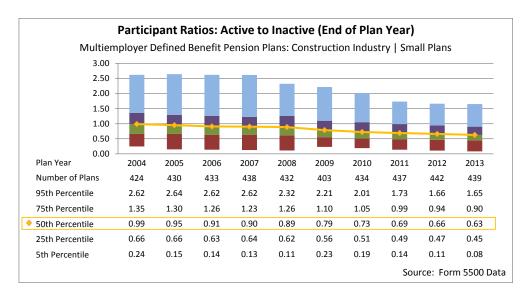


Exhibit 3.02C (Small Plans)





Section IV: Plan Cash Flows

A plan's cash flows are very closely tied to its demographics. As retired participants begin to outnumber active participants, benefit payments to retirees exceed contributions being made for work done by the active participants. If contributions paid into the plan fall short of cash paid out of the plan, the difference must be made up by investment income, or else the plan's assets will shrink over time.

Types of Cash Flows

Following are definitions of the different types of cash flows shown in the exhibits in this section.

- **Contributions** are made by employers on behalf of the participants in the plan who are actively working. In most cases, this is the sole source of "cash in" for the plan.
- Benefit Payments are made by the plan to retired participants and beneficiaries of deceased participants. This is the main source of disbursements, or "cash out" for the plan.
- Operating Expenses include the costs of administration, professionals fees (such as for attorneys, auditors, actuaries, and consultants), and insurance and PBGC (Pension Benefit Guaranty Corporation) premiums. They exclude investment fees. Operating expenses are another source of "cash out" for the plan.

If contributions to the plan exceed benefit payments and operating expenses, then the plan has a positive cash flow. On the other hand, if contributions to the plan do not cover benefit payments and operating expenses, then the plan has a negative cash flow.

As plans mature, their cash flows tend to become increasingly negative. As with negative demographic trends, persistence of negative trends in cash flows will threaten a plan's viability - for participants and beneficiaries as well as contributing employers over the long term.

Median Cash Flows

Exhibit 4.01 below shows the median cash flows for construction industry plans over the ten-year period from 2004 through 2013. As with Exhibit 3.01, while median amounts may not be very relevant (as plans vary greatly in size), the overall trend is noteworthy.

Employer contributions for the median construction industry plan increased over the past decade, from \$2.65 million in 2004 to \$4.23 million in 2013. The trend was likely driven by increases in employer contribution rates, offset by declines in work hours.

At the same time, plan disbursements also increased, from \$4.52 million in 2004 to \$6.64 million in 2013. The combined result is that increasingly negative net cash flows, with the net shortfall growing from \$1.88 million in 2004 to \$2.41 million in 2013.

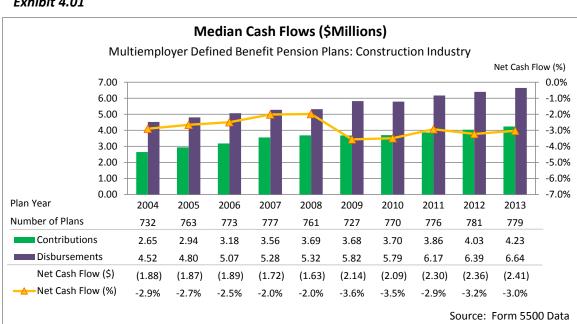


Exhibit 4.01

Section IV: Plan Cash Flows

Cash Flows as a Percentage of Assets

Another way to analyze the effect of positive or negative cash flows on a plan is to express the net cash flow as a percentage of plan assets.

For a plan with a negative cash flow, this percentage represents the return on investment that is needed to keep the plan's asset value from declining. For example, a plan with a negative cash flow of 3.0% of assets must have an investment return of at least 3.0% in order to avoid a decline in its asset value from one year to the next.

Exhibit 4.02 shows the distribution of net cash flows as a percentage of plan assets for construction industry plans from 2004 through 2013. Focusing on the median results, the negative cash flow increased from 2.9% of plan assets to 3.6% of plan assets from 2004 to 2009, with a spike from 2008 to 2009 – due to the downturn in the construction work and the loss of asset values in the stock market decline.

The median negative cash flow improved to 3.0% of assets by 2013, in part as a result of actions taken by plan trustees to improve funding, such as increases to employer contributions and reductions in participant benefits, as well as a rebound in asset values and construction work in some markets.

There is a wide range of results. For example, at the 95th percentile, there are plans that have annual positive cash flow that is over 3% of plan assets.

At the 5th percentile, there are plans that have annual negative cash flow that exceeds 10% of plan assets. Plans with such negative cash flows are likely approaching insolvency.

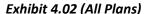
MCAA Commentary

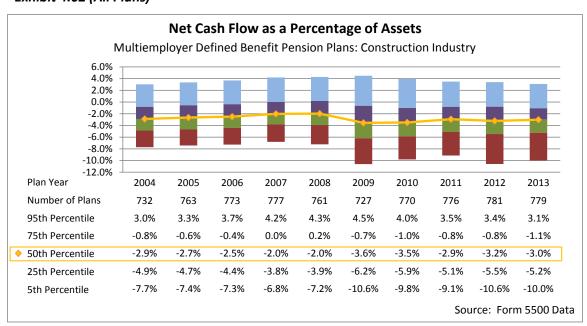
In general, cash flows will grow increasingly negative as a plan matures, causing the plan to rely more and more on investment returns to meet its funding and solvency objectives.

With continued unpredictability in the financial markets, it is especially important for mature plans to have an adequate cushion against adverse investment events. Trustees of maturing plans should consider taking steps to bolster their plans' funding levels in order to buffer against future investment volatility.

Differences by Plan Size

The following page includes three separate exhibits showing cash flows for large, medium, and small plans. As with demographics, general trends for cash flows are similar for all plans, regardless of size. Also, the range of results for small plans is much wider than for large and medium plans.





MCAA Horizon

Section IV: Plan Cash Flows

Exhibit 4.02A (Large Plans)

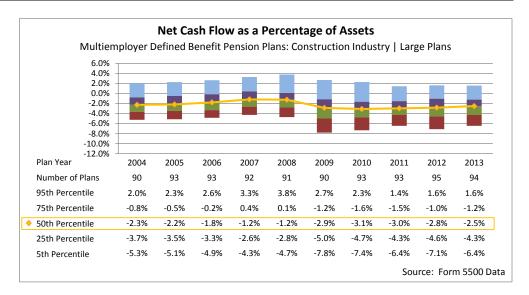


Exhibit 4.02B (Medium Plans)

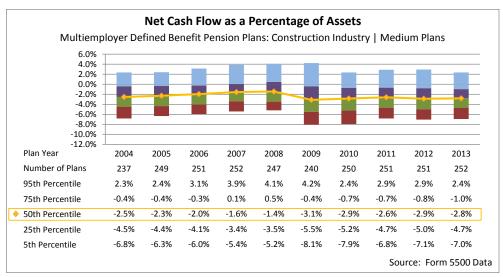
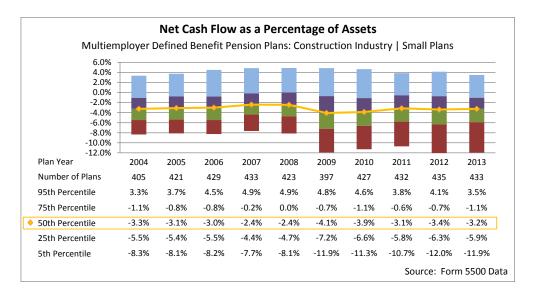


Exhibit 4.02C (Small Plans)





So far, the 21st Century has been turbulent for the financial markets, which in turn made for challenging times for pension plans. This section of the report analyzes the net investment returns for construction industry plans over the ten-year period from 2004 to 2013. Asset returns are examined on a year-by-year basis, as well as annualized over the ten-year period. The report also analyzes the assumed rates of investment return for the plans in the inventory.

Year-by-Year Returns

Exhibit 5.01 shows net investment returns for construction industry plans over the past ten years, from January 1, 2004 through December 31, 2013. For consistency, exhibits in this section include only results for plans with calendar year plan years.

Technical Note: Investment Horizons

The exhibits in this report show results over a tenyear period, in large part because complete data was not available in the database before the year 2000. In assessing the results in this section of the report, users should bear in mind that pension obligations are very long-term in nature, and ten years is too short a period from which to draw conclusions about investment policies.

Investment returns were very volatile over the past decade. The median returns for construction industry plans were double-digit positive in five

years: 11.1% in 2006, 15.9% in 2009, 11.5% in 2010, 11.1% in 2012, and 16.5% in 2013. However, they were also negative in one year (-23.4% in 2008) and essentially flat in 2011.

It is important to note that all investment returns shown in this section are *net* of fees. It is also important to keep in mind that a plan's investment allocation is a key driver of its investment returns.

Differences by Plan Size

The exhibits on the next page show net investment returns separately for large plans (assets of at least \$500 million), medium plans (assets of at least \$100 million and less than \$500 million), and small plans (assets less than \$100 million).

While the general patterns of investment returns over the past ten years look similar regardless of plan size, there are interesting differences upon closer inspection.

In general, larger plans have more diversified investments, as well as greater access to a wider range of non-traditional asset classes. Therefore, it is not surprising to see that net investment returns over the past ten years were slightly higher for large plans than for medium and small plans. However, medium and small plans seemed to have better returns during the turmoil of 2008 and early 2009.

Unfortunately, the available data on the Forms 5500 is not sufficient to determine if there is a relationship between plan asset allocations and investment performance.

Exhibit 5.01 (All Plans)

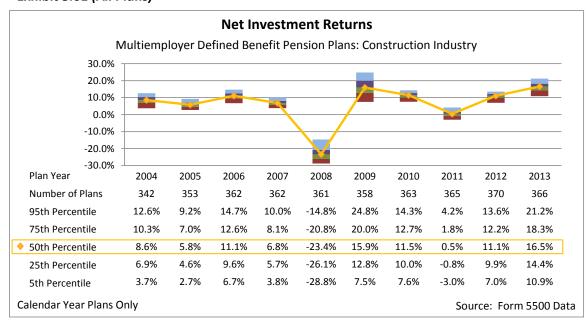




Exhibit 5.01A (Large Plans)

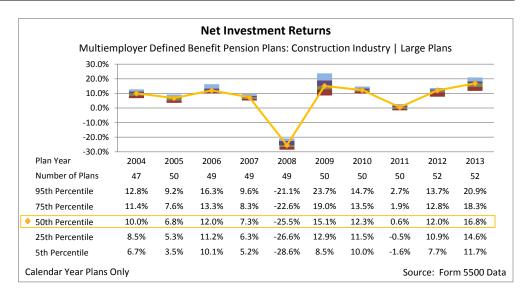


Exhibit 5.01B (Medium Plans)

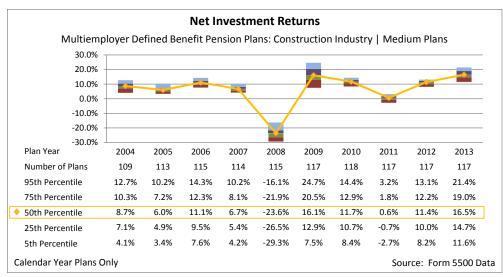
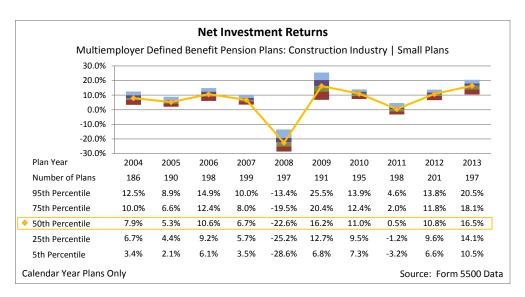


Exhibit 5.01C (Small Plans)





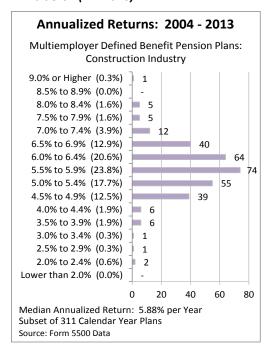
Annualized Returns

The previous exhibits showed net investment returns, year by year, for the ten-year period from January 1, 2004 through December 31, 2013. The following exhibits show *annualized* returns, which allows for better comparisons of investment performance for the entire ten-year period.

Technical Note: Methodology

Annualized investment returns are based on plans with calendar plan years only. Further, only plans for which complete Form 5500 data is available for all ten years from 2004 through 2013 are included. There are 311 such plans in the inventory, which are included in the following exhibits.

Exhibit 5.02 (All Plans)



As shown in Exhibit 5.02 above, the median annualized return for the 311 plans in the sample was 5.88% per year. About 95% of plans in the sample had annualized net investment returns of at least 4.0% but less than 8.0% for the ten years from 2004 through 2013. About 75% of plans had annualized returns of at least 5.0% but less than 7.0%. About 44% of plans had annualized returns of at least 5.5% but less than 6.5%.

Technical Note: Endpoint Sensitivity

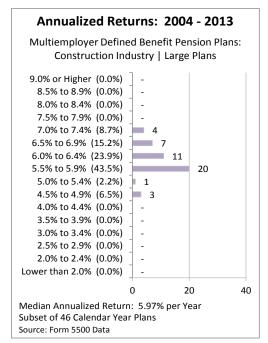
As noted earlier, ten years is too short a period from which to draw conclusions about investment policies. It is also important to keep in mind that the annualized returns analyzed here are very sensitive to the period endpoints. That is, shifting the tenyear period by a year could result in significantly different annualized returns.

For example, the median annualized return for the ten-year period from 2004 to 2013 is 5.88%. There was very little change in the median annualized return versus the prior ten-year period (5.91% from 2003 to 2012). The median annualized return for the ten-year period from 2002 through 2011, however, was much lower: 3.94%. Note the significant effect on the ten-year annualized return of replacing a negative year (-7.9% in 2002) with a positive year (11.1% in 2012). This result underscores how sensitive annualized returns are to the endpoints.

Differences by Plan Size

See Exhibit 5.02A. Annualized returns for large plans are somewhat higher than for the overall population. For example, none of the large plans in the sample had annualized returns of less than 4.5% or more than 7.5% per year. Also, the median annualized return was 5.97% for large plans, compared with 5.88% for the overall population.

Exhibit 5.02A (Large Plans)





As shown in Exhibit 5.02B, there was greater variability in returns for medium plans than for large plans. There were a few medium plans with annualized returns above 7.5%, whereas for the large plans, there were none. The median annualized return for medium plans was 5.84% per year – lower than for large plans and the overall population but slightly higher than for small plans.

Exhibit 5.02B (Medium Plans)

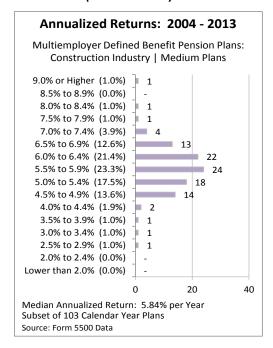
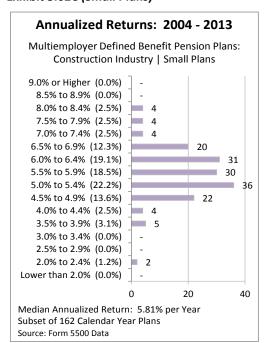


Exhibit 5.02C (Small Plans)



As shown in Exhibit 5.02C, the distribution of annualized returns for small plans is even wider than for medium plans. At the low end of the spectrum, there were 11 plans with annualized returns of less than 4.5%. There were also 8 plans with annualized returns of 7.5% per year or more.

The median annualized return for small plans was 5.81% per year, lower than for large plans or medium plans.

The wider variances in returns for medium and small plans may be due to the fact that large plans are better able to diversify their investments, both with respect to allocations and individual managers. On the other hand, this trend may also be due to the simple fact that the samples of medium and small plans are bigger than for large plans and therefore subject to a wider range of results.

MCAA Commentary

Investment returns for larger construction industry plans tend to outperform returns for smaller plans. This is likely because larger plans are better able to diversify their investments than smaller plans, have more access to more sophisticated types of investments, and tend to have lower manager fees. Over the past decade, investment returns for larger plans have generally outperformed those for smaller plans. Because of this result, and due to the potential savings on administrative and operating expenses, plan trustees may wish to consider mergers where appropriate.

Note that investment fees are analyzed in Section VIII of the report.



Assumed Returns

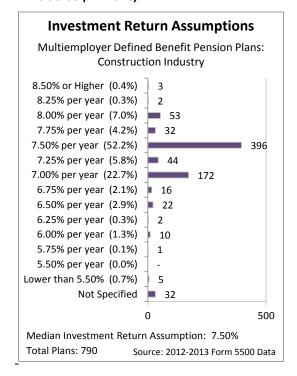
When analyzing the actual investment returns (as done earlier in this section), it is important for users of this report to keep in mind how they compared with the returns the plan *assumed* it would earn.

Multiemployer pension plans are usually invested in a well-diversified mix of stocks, bonds, and alternative investments structured to maximize returns over the long term while minimizing return volatility. The plan actuary must evaluate the plan's asset mix and, based on expectations of future returns, develop an assumption for what the assets are projected to earn over the long term.

As shown in Exhibit 5.03 below, 92.0% of construction industry pension plans use an investment return assumption between 7.00% and 8.00% per year. About half of the plans use an assumption of 7.50%.

In other words, 92.0% of the actuaries for construction industry pension plans assume that their client plans will earn between 7.00% and 8.00% per year on their investments, over the long term. Just over half of the actuaries (52.2%) assume that their client plans will earn 7.50% per year over the long term.

Exhibit 5.03 (All Plans)



Technical Note: Investment Return Assumption

The investment return assumption is also known as the valuation interest rate. This assumption is used to determine the actuarial liabilities and costs of the benefits promised under the plan.

In these exhibits, investment return assumptions are rounded to the nearest 0.25%. Of the 790 plans in the inventory, 32 did not report the plan actuary's assumption on the Form 5500 filing.

Most construction industry pension plans assume they will earn 7.5% per year on their investments. However, from 2004 through 2013, the median construction industry plan earned only 5.88% per year, over that period. Without regard to cash flows, that produced a cumulative underperformance of 14% at the end of the ten-year period.

In other words, as of the end of 2013, the median construction industry plan had an asset value that was 14% lower than the plan would have expected at the beginning of the ten-year period. (For comparison, the investment return shortfall was significantly greater for the ten years from 2002 through 2011: 29%.) In the absence of greater-than-assumed returns in the future, investment shortfalls will often have to be made up through higher employer contributions, reduced employee benefits, or a combination of the two.

MCAA Commentary

Given the volatility of investment returns in recent years, some plans are seeking to "de-risk" their investments to achieve longer term stability.

De-risking comes with a cost, however. Lower investment risk generally means lower investment returns, which in turn means contributions must be increased and/or benefits must be reduced in order to achieve the same funding levels. Many plans cannot afford this added cost.

Many healthier plans may be able to afford to derisk their investments over the long-term. However, if these plans immediately de-risk their assets, their near-term statutory funding requirements could suddenly increase.

Legislative changes are needed to allow plans to recognize the impact of de-risking over an extended period of time (like the Pension Relief Act of 2010 provided for 2008 investment losses). Such a change would enable plans to reduce their investment volatility while not unnecessarily increasing their statutory funding requirements.



Differences by Plan Size

Exhibit 5.03A shows the distribution of investment return assumptions for large plans (asset values of at least \$500 million). In this case, the data shows that the distribution of the return assumptions is much narrower for large plans than it is for all plans. Of the 94 large plans shown in the exhibit below, all but 4 (about 97%) are within the range of 7.00% to 8.00% per year. About 60% of large plans use an assumption of 7.50%.

Exhibit 5.03B shows the distribution of investment return assumptions for medium plans (asset values of at least \$100 million and less than \$500 million), which is similar to the distribution for large plans. Of the 246 medium plans shown (excluding the 7 that did not provide assumptions), about 97% are within the range of 7.00% to 8.00%, and about 58% use an assumption of 7.50%. There were a few medium plans (about 3% of them) that use an assumption outside the 7.00% to 8.00% range.

Exhibit 5.03C shows that there is a wider range of return assumptions reflected in the data for small plans (asset values of less than \$100 million) than for the overall population. Still, 88% of small plans use an assumption in the range of 7.00% to 8.00% per year, and about 47% of them use an assumption of 7.50%. About 12% of small plans use an assumption outside of the 7.00% to 8.00% range.

Exhibit 5.03A (Large Plans)

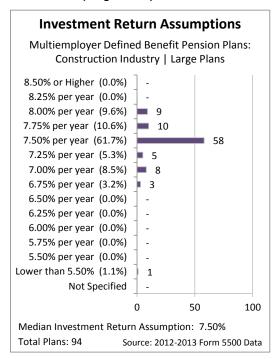


Exhibit 5.03B (Medium Plans)

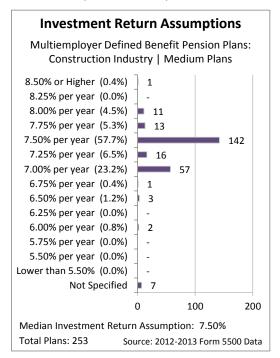
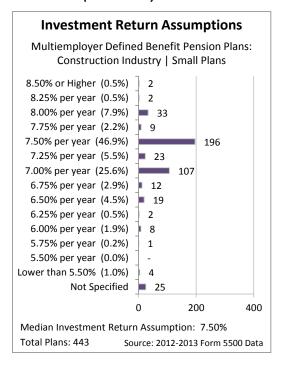


Exhibit 5.03C (Small Plans)





This section of the report analyzes plan funding levels over the past decade, as well as the PPA certification status in recent years. As the results show, plan funding levels have improved in recent years, following the 2008 market collapse. Still, there is much room for further improvement.

Funded Percentages

Before reviewing the results in this section, users must first understand the various methods that may be used to calculate funded percentages for multiemployer pension plans.

For one, under the Pension Protection Act of 2006 (PPA), the funded percentage is calculated as the ratio of the *actuarial value of assets* over the *actuarial accrued liability*. The actuarial value of assets usually smooths (averages) prior investment gains and losses over a five-year period. The actuarial accrued liability is the value of the accrued benefits under the plan, measured at a discount rate that reflects the expected return on plan assets over the long term. As discussed in the prior section, that discount rate is usually between 7.00% and 8.00% per year. Under PPA, a plan that is less than 80% funded based on this measure will be in endangered status, or perhaps even critical status.

On the other hand, the 2012 <u>Credit Suisse report</u> on multiemployer plans calculates funded percentages differently. Credit Suisse's so-called "fair value"

funded percentage is the ratio of the *market value of assets* over the *current liability*. A plan's current liability is measured based on a conservative interest rate assuming the plan is invested entirely in bonds.

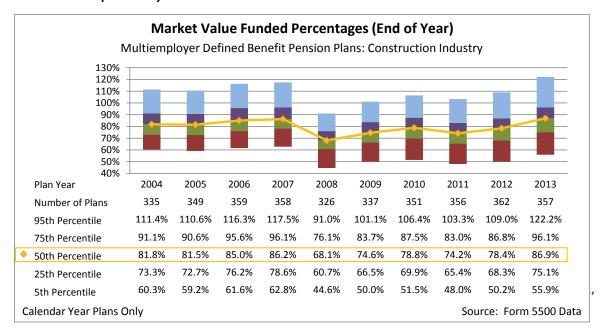
The consensus in the multiemployer plan professional community is the Credit Suisse approach is inappropriate because it disregards the plan's actual investment allocation, which usually includes stocks, bonds, and alternative investments. Most plans have investment allocations that are expected to earn 200 to 400 basis points per year more than an all-bond portfolio.

The funded percentages in this section represent the ratio of the *market value of assets* over the *actuarial accrued liability*. This provides the plan's funded percentage at each point in time, without smoothing prior asset gains and losses, and provides a consistent comparison from plan to plan.

Note that while the funded percentages in this report are based on the market value of assets, it is appropriate to use the actuarial value of assets for purposes of making funding decisions and calculating contribution requirements under PPA.

The funded percentages shown in Exhibit 6.01 below are measured as of December 31; only results for plans with calendar year plan years are included. As shown below, the median funded percentage for multiemployer pension plans in the construction industry increased from 81.8% at December 31, 2004 to 86.9% at December 31, 2013.

Exhibit 6.01 (All Plans)





The median funded percentage was quite volatile over the last decade, however. The historic investment losses during 2008 brought the median percentage down to 68.1% at December 31, 2008. Positive investment returns from 2009 through 2013 (noting that returns for 2011 were relatively flat) brought the median percentage back up to 86.9% at December 31, 2013. This increase shows the significant market and investment recovery following the market collapse of 2008. However, there is still much room for further improvement.

Earlier in this report, it was noted that there is a wide range of variability in plan demographics, cash flows, and investments. The same goes for funded percentages. As of December 31, 2013, half of construction industry plans were between 75.1% and 96.1% funded (the range between the 25th and 75th percentiles). Five percent of the plans were 122.2% funded or better. Five percent of plans were 55.9% funded or worse.

Technical Note: Actuarial Accrued Liability Data

The actuarial accrued liability is reported as of the beginning of the plan year on the Schedule B or Schedule MB of the Form 5500. In general, the actuarial accrued liability from the succeeding year is used to calculate the end-of-year funded percentages. For example, the funded percentage as of December 31, 2009, uses the actuarial accrued liability as of January 1, 2010. If the actuarial accrued liability is unavailable for a given year, the report uses a one-year "roll-forward" of the prior year figure.

Note that many plans have changed their actuarial cost method over the past few years, which may cause some minor fluctuations in the data. The aggregate effect of method changes is likely minor. For consistency, the actuarial accrued liability under the unit credit cost method (first reported on the Schedule MB beginning with 2008 plan years) is used when available.

Note that while most plans saw increases in their funded percentages from 2004 through 2013, a small but significant minority of plans actually saw a deterioration in their funding levels. For example, funded percentages for plans at the 5th percentile decreased from 60.3% at the end of 2004 to 55.9% at the end of 2013.

A plan with a funded percentage that declined from 2004 to 2013 may be approaching insolvency. At the very least, such a plan is likely struggling to implement the necessary measures to improve its funding levels.

Differences by Plan Size

The following page shows historical funded percentages separately for "large" (assets of at least \$500 million), "medium" (assets of at least \$100 million and less than \$500 million), and "small" (assets less than \$100 million) construction industry plans. Again, for consistency, only results for plans with calendar year plan years are included.

In general, plan size does not appear to have much of a relationship to the median funded percentages or the historical pattern of the funded percentages. However, there are a few differences to note.

One, it was noted earlier that it appears that smaller plans weathered the market collapse of 2008 better than medium and large plans. In other words, net investment losses in 2008 for small plans weren't as great as they were for medium and large plans. This trend is also reflected in the funded percentages. The decline in funded percentages following the 2008 investment losses wasn't as great for small plans (a decline of 16.4 percentage points) as it was for medium plans (20.1 points) and large plans (22.9 points).

Two, as with other statistics, there is much greater variability among the funded percentages for small plans than for medium or large plans. For example, as of December 31, 2013, 90% of large plans were between 61.7% and 111.0% funded (the range between the 5th and 95th percentiles). For small plans, the same range was 46.8% to 123.8% funded.



Exhibit 6.01A (Large Plans)

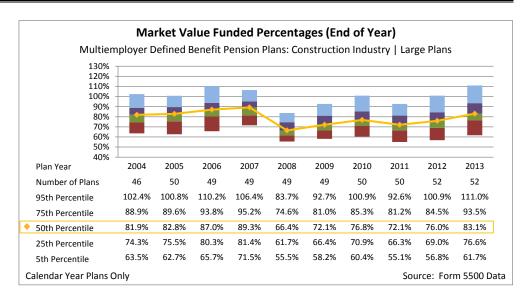


Exhibit 6.01B (Medium Plans)

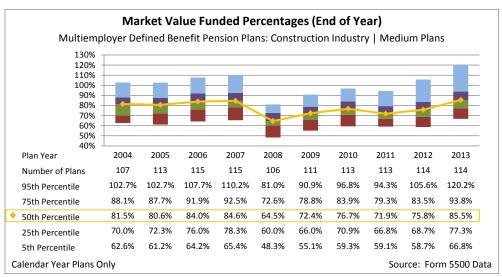
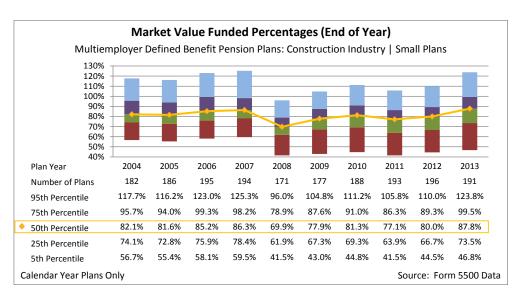


Exhibit 6.01C (Small Plans)





PPA Certification Status

Under PPA, a multiemployer pension plan's actuary must certify the plan's status based on certain tests at the beginning of every plan year.

In simplified terms:

- A plan is in critical status ("red zone") if it is projected to have a deficiency in its funding standard account in the next four years (five years if the plan is less than 65% funded or if other conditions are met).
- A plan is in endangered status ("yellow zone") if
 it is less than 80% funded or if it is projected to
 have a deficiency in its funding standard account
 in the next seven years. If both of those criteria
 are true, then the plan is in seriously
 endangered status ("orange zone").
- A plan is in neither critical status nor endangered status (i.e., it is in the "green zone") if none of the above criteria are met.

Technical Note: Funding Standard Account

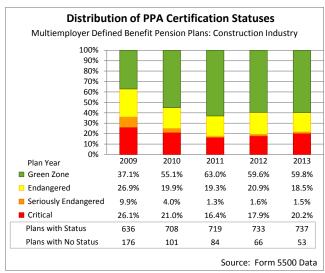
The funding standard account (FSA) is a notional account used to determine minimum required contributions under ERISA. To the extent that actual contributions exceed the requirements as determined by the FSA, the account will build up a credit balance. On the other hand, if contributions fall short of the FSA requirements, the credit balance will deteriorate. Once the credit balance is gone, there is a deficiency in the FSA. Most of the criteria for avoiding endangered status or critical status under PPA (as well as for developing funding improvement plans or rehabilitation plans) involve avoiding deficiencies in the FSA.

Exhibit 6.02 summarizes the PPA certification statuses, as reported by each construction industry plan on its Form 5500 filings for the 2009 through 2013 plan years. Data on PPA status was not available for the 2008 plan year (the first year for which PPA rules applied to multiemployer plans) as information from the Form 5500 Schedules MB was not recorded electronically.

Of the plans that reported a PPA certification status for the 2009 plan year, 37.1% were in the green zone, 36.8% were in endangered status or seriously endangered status, and 26.1 % were in critical status. The statuses for the 2009 plan year came immediately after the 2008 investment losses, and before the vast majority of plans had begun to take

action to improve their funded statuses. Therefore, these statuses represent where construction industry plans stood at (about) their lowest points.

Exhibit 6.02



From the 2009 plan year to the 2011 plan year, many plans moved to a better PPA status. Most plans had investment gains during their 2009 and 2010 plan years, which was a major contributing factor to these changes. Pension relief and corrective actions taken by plan trustees (and subsequently, bargaining parties) are other contributing factors.

For plan years beginning in 2012, the percentage of plans in the green zone decreased slightly, from 63.0% in 2011 to 59.6% in 2012. The reason for the decrease is that the 2012 certifications reflected investment returns for the 2011 plan year, which were generally flat—net losses when compared to assumed returns of 7.0% to 8.0%.

Correcting Funding Shortfalls under PPA

If a plan is certified to be in endangered status (yellow or orange zones), then under PPA, its trustees will be required to propose a "funding improvement plan" designed to reduce the plan's underfunding by one-third over a ten-year period, while also avoiding deficiencies in the funding standard account.

If a plan is certified to be in critical status (red zone), PPA requires its trustees to adopt a "rehabilitation plan" designed to enable the plan to emerge from critical status over a ten-year period. When the trustees of a plan are adopting either a funding improvement plan or a rehabilitation plan, they must



consider both increases to employer contributions as well as reductions to participant benefits as measures to correct the funding shortfall over time.

Once the trustees have adopted either a funding improvement plan or a rehabilitation plan, the employers and the unions (the "bargaining parties") must select one of the "schedules" of contribution increases and/or benefit reductions set forth in the plan adopted by the trustees. If the bargaining parties do not reach an agreement on which schedule to choose within a certain amount of time, the so-called "default schedule" will be imposed upon them, which usually reduces benefits to the maximum extent allowed by law.

The trustees of plans that are in the green zone are not required under PPA to propose funding improvement plans or rehabilitation plans. Nevertheless, it is widely reported that many of them are considering increases to employer contributions and reductions to participant benefits as a way to ensure against future volatility.

For example, a plan that was 75% funded on a market value of assets basis as of December 31, 2009 (the median funded percentage as of that date for all construction industry plans) may still be 90% funded or better on the basis of the smoothed actuarial value of assets, under PPA. Such a plan might be in the green zone by PPA standards, but its trustees may still recognize that actions are needed to correct the plan's funding shortfall.

Tax-Deductible Limits

For plan years beginning in 2002 and later, the maximum contribution amount that participating employers can consider to be tax-deductible was significantly increased. (This rule was part of the Economic Growth and Tax Relief Reconciliation Act of 2001, or "EGTRRA.") The higher deductibility limits were further codified under PPA.

Under current rules, contribution maximums are based on 140% of the current liability. This effectively means that all employer contributions to multiemployer plans will be tax-deductible, unless the plan is unusually over-funded.

Prior to 2002, tax-deductible limits were much lower, based on 100% of the actuarial accrued liability. The lower limits prevented most multiemployer plans from building up any meaningful cushions to protect against tough times ahead. The lower pre-2002 deductibility limits are

often regarded as a contributing factor to the volatility in funding levels resulting from investment losses in 2001 and 2002, and again in 2008 and early 2009.

Funding Relief: WRERA 2008

In the wake of the investment losses of 2008, Congress passed the Worker, Retiree, and Employer Recovery Act of 2008 (WRERA 2008). WRERA 2008 allowed trustees of multiemployer plans a one-time opportunity to delay action in correcting funding shortfalls.

For example, if a plan was in the green zone under PPA for the 2008 plan year, the trustees of that plan could elect to remain in the green zone for the 2009 plan year, even if the 2008 investment losses would have otherwise put the plan in critical status or endangered status. Many called this "pressing the pause button."

There were two main reasons that a plan's board of trustees would elect to press the pause button. One, the trustees may have expected there would be a market bounce-back in 2009 (there was), which would make funding targets easier to meet a year later. Two, the trustees may have been seeking more time to piece together what would no doubt be a very difficult action plan to correct a very large funding shortfall.

Observation: WRERA 2008

Anecdotal evidence is that, in the wake of 2008 investment losses, most boards of trustees elected to "press the pause button" under WRERA. That enabled them to delay action for one year and avoid having to adopt funding improvement plans or rehabilitation plans during 2009. As a result, many action plans to correct funding shortfalls were adopted in 2010, with contribution rate increases and benefit reductions first taking effect in 2011. Because of this timing, the figures in this report do not fully reflect the effects of recently adopted contribution rate increases and benefit reductions.



Funding Relief: Pension Relief Act of 2010

In June 2010, Congress passed the Pension Relief Act of 2010. Among other things, this Act provided special rules allowing multiemployer pension plans to recognize and fund the unprecedented investment losses from 2008 over a longer period of time, for purposes of determining funding requirements under PPA. The decision to elect funding relief, if any, had to be made by mid-2011 at the latest.

If elected by the plan's trustees, the special rules would affect either or both of the plan's actuarial value of assets and its funding standard account. It is important to keep in mind that while the special rules were designed to lower the plan's funding requirements under PPA, they will not actually improve the plan's true funded status. In other words, the special funding relief rules don't put one extra dollar into the plan's assets, and they don't result in one less dollar being paid out in benefits.

There is no box to check on the Form 5500 indicating whether or not a plan elected funding relief. The special funding relief rules were first made available in 2010, but if elected, they were effective retroactive to 2009. In other words, the special rules generally would not be reflected in the 2009 Form 5500, but if elected, they would be reflected in the 2010 Form 5500 and would be effective retroactive to 2009. Therefore, it can be deduced that a plan elected funding relief if there was an otherwise unexpected change in its funding standard account credit balance from the 2009 plan year to the 2010 plan year.

Exhibit 6.03 shows the estimated number of construction industry plans that elected to use the special rules.

Exhibit 6.03

Funding Relief Elections (Estimated)							
Construction Industry Plans							
Plan Years Beginning January through April							
PPA Status:	All	Elected	% Elected				
2009 Plan Year	Plans	Relief	Relief				
Green Zone	136	70	51.5%				
Endangered	96	68	70.8%				
Seriously Endangered	32	25	78.1%				
Critical	90	74	82.2%				
TOTAL	354	237	66.9%				

As shown in Exhibit 6.03, it is estimated that roughly 67% of construction industry plans elected funding relief. The percentage is higher for plans that were in critical status or endangered status than for plans that were in the green zone.

Note that Exhibit 6.03 includes only plans for which Form 5500 data was available for both the 2009 and 2010 plan years, and which have plan years beginning in January through April.

Technical Note: Effect of Relief on 2010 PPA Status

It is difficult to discern the effects of funding relief on the PPA status of a plan using the available data. When most plan actuaries completed their PPA status certifications for the 2010 plan year, funding relief was not yet available. Further, though funding relief applied retroactively to 2009, guidance from the IRS indicated that, in general, the 2010 PPA status certifications should not be revised. Therefore, it is expected that the vast majority of PPA statuses for 2010 in the inventory do not reflect any effects of funding relief.

It is often (and correctly) noted that a plan's decision to use the special funding relief rules under the Pension Relief Act of 2010 did not actually improve the plan's true funded status.

However, it is also important to note that the special rules allowed plan trustees to develop meaningful action plans to correct their funding shortfalls over a longer period of time. Without the relief, some plans would have been forced to take unnecessarily severe corrective action that would have been crippling to employers, and in turn, the plans themselves.

MCAA Commentary

After electing funding relief, many plans will be in the green zone under PPA. However, that should not be taken to mean that all of these green zone plans are in good shape and don't need further corrective action. PPA has provided a framework for plans in endangered status and critical status to improve or rehabilitate plan funding over time.



Multiemployer Pension Reform Act of 2014

On December 16, 2014, President Obama signed the Multiemployer Pension Reform Act of 2014 (MPRA) into law. Among other things, MPRA made permanent, and provided technical corrections to, the rules under PPA affecting multiemployer plans. It also provided new tools to plans in "critical and declining" status to enable them to avoid insolvency, such as the ability to suspend benefits that were previously protected under ERISA, or to apply to the PBGC for a partition or facilitated merger.

Under MPRA, a multiemployer plan is in critical and declining status if its actuary certifies that it is projected to be insolvent (in other words, run out of money and be unable to pay benefits) within the next 15 or 20 years. Critical and declining status first applies to certifications completed after MPRA was signed into law, in other words on or after December 16, 2014.

Some plans have already been certified in critical and declining status for 2015, and the applicable notices have been published on the Department of Labor's website. Notices have not been published for other plans, and some plans have not yet made their first certification with respect to the new critical and declining status.

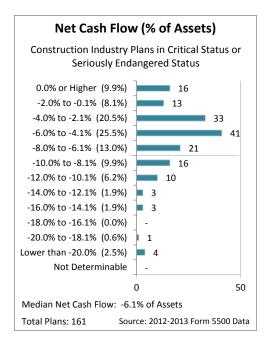
Therefore, at this time, we do not have a complete understanding of which plans will be certified in critical and declining status. We can, however, estimate which plans are likely to be in critical and declining status based on their cash flows.

As previously noted, most multiemployer pension plans use expected return assumptions of 7% to 8% per year. Therefore, a plan with negative annual cash flows—benefit payments and expenses exceeding employer contributions—of more than 7% or 8% of assets would generally expect its asset value to decline year after year. A declining asset value may be acceptable for a very mature plan that also has benefit liabilities that are projected to decline at the same rate. For a plan with benefit payments that are projected to increase over time, declining asset values are likely a sign of looming insolvency.

Exhibit 6.04 shows the latest net cash flows (calculated in the same way as earlier in this report) for multiemployer pension plans in the construction industry certified to be in critical status or seriously endangered status in the latest plan year, ending on or about December 31, 2013. In general, we expect the more negative the plan's net

cash flow, the more likely it is the plan will be certified in critical and declining status under MPRA.

Exhibit 6.04



As shown in the exhibit above, there are 37 plans in the construction industry in critical status or seriously endangered status with negative net cash flows exceeding 8.0% of assets. We expect most of these plans will be certified in critical and declining status in 2015 or shortly thereafter. (Across all industries, there are 114 in critical or seriously endangered status with negative net cash flows exceeding 8.0% of assets. For comparison, in January 2015, the Center for Retirement Research at Boston College published a list of 100 multiemployer pension plans it expects will be certified in critical and declining status.)

Of course, some plans in this group will not be certified in critical and declining status, and other plans not included in this group will be. For example, if a plan has adopted a rehabilitation plan with future scheduled contribution rate increases, its net cash flows may be projected to improve over time. On the other hand, a plan with a moderately negative net cash flow according to the most recent Form 5500 data may still be projected to go insolvent in the next 15 to 20 years, due to a rapidly aging participant population.

Section VII: Plan Costs

This section of the report analyzes annual plan costs and compares them with employer contributions. To the extent that employer contributions exceed plan costs in a given plan year, the plan's funded status is expected to improve. To the extent that employer contributions fall short of plan costs, then the plan's funded status will deteriorate.

Annual Plan Costs

There are three key components used in determining the annual "cost" of a pension plan:

- 1. The cost of the benefit accruals, in other words, the benefits that will be earned by plan participants in the coming year.
- 2. The cost of operating the plan for the year.
- 3. The cost of paying down some portion of the plan's unfunded accrued liability, in other words, the shortfall between the plan's assets and its past service liabilities.

Of course, future plan experience – including and especially investment returns – is the most significant determinate of the plan's costs. For example, if investment returns are poor, then the cost of paying down some portion of the plan's unfunded accrued liability (the third cost component above) will increase.

As the trustees of different multiemployer plans developed action plans in 2009 and 2010 to improve their plans' funded statuses, they considered these three cost components in setting the appropriate level of future contribution rates.

As previously described, under PPA, trustees are required to incorporate different "schedules" of increases in employer contribution rates and/or reductions in participant benefits when designing a funding improvement plan or rehabilitation plan. After the schedules are adopted by the trustees, employers and unions (the "bargaining parties") must select one of the schedules in collective bargaining.

Technical Note: Costs Per Active Participant

Plans often express employer contributions as dollars and cents per hour, and therefore, it often makes sense to express plan costs as dollars and cents per hour as well.

However, the number of hours worked (or other base unit for employer contributions) is not reported on the Form 5500. While the number of active participants for most construction industry plans has not dramatically declined over the past decade, the number of hours worked per active participant may have. This information cannot be discerned from the Form 5500 filings.

Moreover, it is difficult to choose a single hoursworked assumption that would be applicable to all construction industry plans. Some plans have active participants who work 1,800 or 2,000 hours per year on average. Other plans (especially those in colder regions) might be seasonal and have average hours in the range of 1,000 to 1,200 per year.

For these reasons, this section of the report examines costs and contributions on a per-active participant basis rather than on an hourly basis.

The following pages review each of the components of annual plan costs. The focus will first be on results for all construction industry plans, regardless of their size. Selected exhibits for large, medium, and small plans are included together at the end of this section.



Section VII: Plan Costs

Cost of Benefit Accruals

The first component of the annual plan costs is the cost of benefit accruals for the coming year. Exhibit 7.01 shows how the cost of benefit accruals has changed over the past decade.

Technical Note: Normal Cost

The plan's "normal cost" is reported on the Form 5500 Schedule MB (formerly Schedule B). Generally, the normal cost is the cost of benefit accruals for the plan year plus assumed operating expenses. This analysis removes assumed operating expenses from the normal cost to focus solely on the cost of benefits being accrued each year.

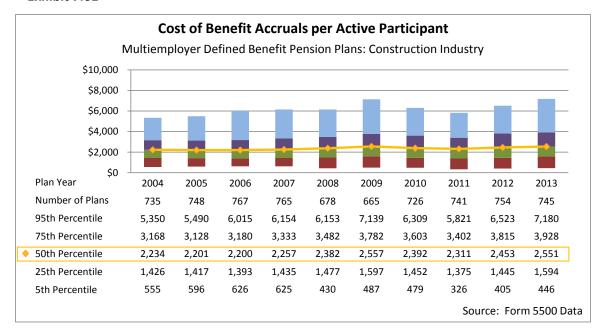
Also note that many plans have changed their actuarial cost method over the past few years, which may cause some fluctuations in the data. The aggregate effect of method changes is expected to be minor. If the normal cost is unavailable for a given year, the average of the normal costs from prior and succeeding plan years was used. Note that all plans were missing normal cost data for plan years beginning in 2008.

In general, the cost of benefit accruals increased modestly over the past decade. For example, the median cost was \$2,234 for 2004, and it was \$2,551 for 2013, with some fluctuations year by year. The cost of benefit accruals per active participant tends to rise each year, to the extent that the average active participant ages and gets closer to retirement.

General aging of active participant populations likely contributed to the overall pattern of increases during the past decade.

The costs of benefit accruals per active participant, however, generally decreased from 2009 to 2010, and again from 2010 to 2011. This decrease was likely due to the effects of many plans reducing the rate of benefit accruals as part of an action plan to improve plan funding levels.

Exhibit 7.01



Cost of Operating the Plan

Exhibit 7.02 below shows the second component of plan costs – operating expenses paid over the past decade, on per-active participant basis. Operating expenses include the cost of administration, fees paid to professionals (such as for attorneys, auditors, actuaries, and consultants), and insurance and PBGC premiums. They exclude investment fees.

As shown below, operating costs per active participant have risen over the past decade. For example, note that median costs have increased from \$384 to \$600 per active participant, from 2004 to 2013. This amounts to a 56.3% increase over the period, or an average increase of 5.1% per year.

At first glance, the rate at which operating expenses have increased over the past decade may seem high. However, it is very important to note that the cost of operating a pension plan is not directly related to the number of *active* participants in the plan.

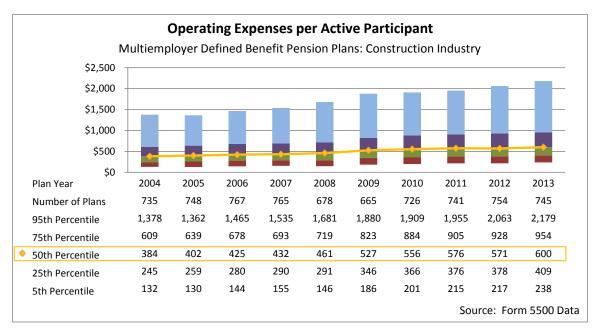
Rather, operating expenses are more closely related to the number of *total* participants, including those who are inactive or retired. There are costs associated with participants after they stop working or are no longer active, such as maintaining their records, putting them into payment status, sending them notices, and paying the associated PBGC premiums.

When operating expenses are expressed on the basis of total participants (including inactive and retired participants), the rate of increase is actually very modest (see Section VIII). However, in this section, the costs of operating the plan are expressed on a per-active participant basis for consistency with the other cost components.

As shown in the discussion of demographics in Section III of the report, the ratio of active participants to inactive participants for most construction industry plans has declined significantly over the past decade. In other words, there are fewer active participants across whom to spread operating expenses. At the same time the total number of participants has increased. The combined effect of these trends is a big reason why each active participant's share of the plan's total operating expenses has increased over the past ten years.

See Section VIII of the report for more detailed information on plan operating expenses, including a comparison of operating expenses for large, medium and small plans.

Exhibit 7.02





Cost of Unfunded Liabilities

The third component of annual plan costs is paying a portion of the unfunded accrued liability, commonly called the "amortization payment."

The unfunded accrued liability is the amount by which the plan's asset value falls short of its actuarial accrued liability. In this analysis, the plan asset value is the market value of assets. (Under PPA, the actuarial value of assets would be used.) The actuarial accrued liability is the value of all benefits that are attributable to past service – service already earned as of the date the liability is measured.

Exhibit 7.03 shows the cost of a 15-year amortization of unfunded accrued liabilities. In other words, these costs show what it would take for a plan to pay down its entire unfunded liability in equal installments (per active participant) over 15 years.

The median annual cost of the unfunded liabilities in 2004 was \$2,683 per active participant. Favorable investment returns over the next few years brought it down to \$1,877 per participant in 2007. The annual cost skyrocketed following the investment losses of 2008 but has shown modest improvement following the investment gains of 2009 through 2012. The median annual cost of the unfunded liabilities in 2013 was \$5,333 per active participant.

Observation: Cost of Unfunded Liabilities

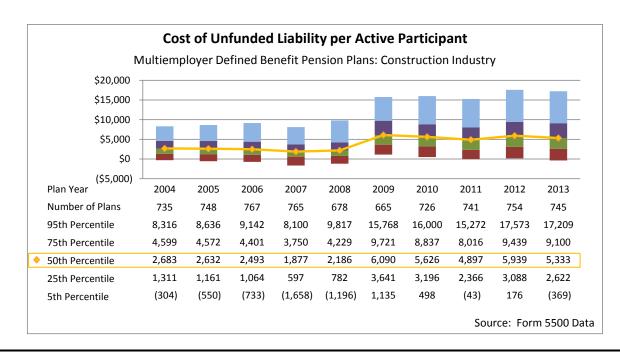
The annual cost of paying down unfunded past service liabilities dramatically increased following the market collapse of 2008. Despite modest improvement in recent years, the cost of unfunded past service liabilities remains high and far exceeds the cost of future benefit accruals and the cost of operating the plan.

Technical Note: 15-Year Amortization Period

When determining a schedule over which to pay down a plan's unfunded accrued liabilities, many different payment (amortization) periods could be deemed appropriate.

In general, the more mature the plan, the shorter the amortization period should be. For example, a 10-year period might be appropriate for a very mature plan, and a 20-year period might be more appropriate for a younger plan that has a very high ratio of active participants to inactive participants. This analysis uses a 15-year amortization period for simplicity.

Note that under PPA, changes in the unfunded liability are generally amortized over a period of 15 years. However, the net outstanding amortization period under PPA may be more or less than 15 years, depending on a number of factors.





Adjustable Benefits

Prior to the passage of PPA, plans were prohibited from reducing benefits that participants had already accrued. When PPA became effective in 2008, it provided a special rule that allowed plans in critical status to reduce or eliminate so-called "adjustable benefits" (such as early retirement benefits) as part of a rehabilitation plan. A participant's accrued benefit payable at his or her normal retirement date was still protected, as were benefits already being paid to retirees. Nevertheless, the ability to reduce adjustable benefits provided the trustees of plans in critical status with a meaningful tool that could be used in rehabilitating plan funding.

In total, 246 plans in the construction industry indicated that they were in critical status for at least one plan year from 2009 through 2013. Of those 246 plans, 128 of them (52.0%) indicated on their Form 5500 that adjustable benefits were reduced or eliminated as part of a rehabilitation plan.

Unfortunately, data is not available for the plan years beginning in 2008. Furthermore, Form 5500 data cannot be used to determine the effects of the adjustable benefit reductions on the unfunded accrued liabilities. Therefore, it is impossible to paint a complete picture of which plans reduced or eliminated adjustable benefits or to quantify the impact of the reductions.

Employer Contributions

As the previous exhibits have shown, annual plan costs are on the rise. These increasing costs must be covered by increased contributions.

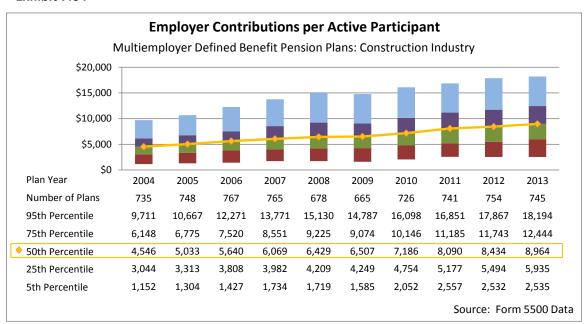
Exhibit 7.04 below shows average employer contributions, per active participant, over the past decade. Average contributions have increased in nearly every year, likely due to action taken by plan trustees to correct the funding shortfalls brought on by the investment losses from 2001- 2002 and 2008.

The small increase in the average contribution per active participant from 2008 to 2009 may seem like an unusual result. However, consider that the vast majority of plans did not begin to increase employer contribution rates in the wake of 2008 investment losses until *after* 2009 had ended. Declines in hours worked per active participant during the ensuing recession may also be a factor.

Average contributions per active participant increased significantly from 2010 through 2013, likely a result of some plans beginning to require higher employer contribution rates. In some cases, the increase in contribution rates may have been offset by continued declines in work levels. In other cases, recovering work levels may have contributed to increases in the average contribution amounts.

Contributions per active participant may continue to increase beyond 2013, as many boards of trustees designed funding improvement plans and rehabilitation plans that spread contribution rate increases over multiple future years.

Exhibit 7.04





Contributions vs. Costs

As described earlier, to the extent that employer contributions exceed the plan's annual costs, the plan's funding levels are generally expected improve over time. If employer contributions do not cover annual costs, then the plan's funding levels are generally expected to detoriorate (or perhaps improve very slowly or remain flat) over time.

Exhibit 7.05 shows the *ratio* of employer contributions to annual plan costs from 2004 through 2013. Ratios greater than 1.00 indicate contributions exceed costs; ratios less than 1.00 indicate costs exceed contributions. (Prior editions of this report analyzed the dollar difference between employer contributions and plan costs. Focusing on ratios allows for better comparisons across plans with differing levels of contribution and costs.)

For the median results, investment gains from 2004 through 2007 improved plan funding (in other words, reduced underfunding) so that the ratio of costs to contributions rose to 1.16 at the beginning of the 2008 plan year. The ratio fell dramatically following the investment losses in 2008, dropping to 0.64 for the 2009 plan year.

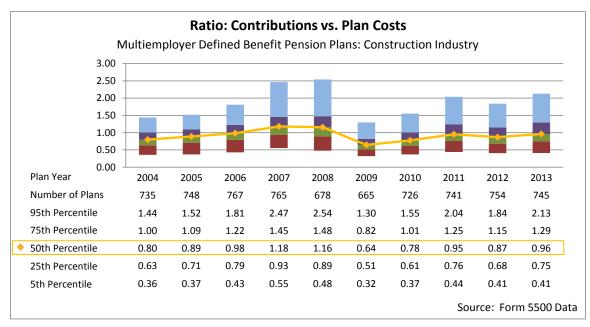
The ratio has since risen to 0.96 for the 2013 plan year, driven both by investment gains from 2009 through 2012 and actions taken by plan trustees to improve plan funding. For 2013, the median ratio of contributions to plan costs was 0.96; in other words, contributions are nearly in line with plan costs.

MCAA Commentary

Construction industry plans have had a challenging decade, with worsening demographics and investment losses. Several plans have taken action to improve their funding using the tools available under PPA. It will be interesting in the coming years to see the impact of the new tools available under MPRA to deeply troubled plans with looming insolvency.

Further legislative changes are needed to allow plan trustees and bargaining parties greater flexibility with plan design. Such changes will bring stability to these plans and to restore their vitality for the future.

Exhibit 7.05





Differences by Plan Size

The following pages show selected exhibits for "large" (assets of at least \$500 million), "medium" (assets of at least \$100 million and less than \$500 million), and "small" (assets less than \$100 million) construction industry plans.

Commentary is included below.

Costs of Benefit Accruals (Exhibits 7.01A-C):

- In general, it appears that large and medium plans have higher costs of benefit accruals per active participant than small plans. This may imply that large and medium plans have higher benefit accrual rates (for those plan years) than small plans.
- It may also imply that large and medium plans have older active participants on average than small plans; older active participants tend to have higher normal costs than younger participants. Unfortunately, there is not enough information in the Form 5500 to confirm this.
- Note that the 95th percentile results are somewhat volatile and may be affected by a variety of factors. Not much stock should be put into those numbers.

Operating Expenses:

See Section VIII of the report for more detailed information on plan operating expenses, including a comparison of operating expenses for large, medium and small plans.

Cost of Unfunded Liabilities (Exhibits 7.03A-C):

- In general, it appears that large and medium plans have higher costs of unfunded liabilities, per active participant, than small plans. This may imply that large and medium plans have generally higher benefit accrual rates (for past service) than small plans.
- The range of results is greater for small plans.
 The 95th percentile (highest) costs for small plans rose dramatically after 2008. There is a higher percentage of small plans with no unfunded liabilities (negative cost) than for large or medium plans.

Employer Contributions (Exhibits 7.04A-C):

- In general, changes in employer contributions per active participant over the past decade have followed the same pattern, regardless of the size of the plan. In general, contributions per active participant increased through the decade, with significant increases from 2010 through 2013.
- The median contributions per active participant were higher for medium plans than for small plans and large plans.
- The range of contributions was wider for medium plans than for large and small plans. (This contrasts with other results analyzed in this report, for which small plans usually have wider ranges of results.)

Contributions vs. Costs (Exhibits 7.05A-C):

- As with most other statistics, there is a wider range of results for small plans than for large or medium plans.
- Large plans appear to have more of a gap between contributions and plan costs from 2010 through 2013 than medium or small plans. This appears to be related to the fact that large plans generally have a higher cost of benefit accruals than small plans.
- Medium plans have higher accrual costs, but that is offset by higher employer contributions.



Exhibit 7.01A (Large Plans)

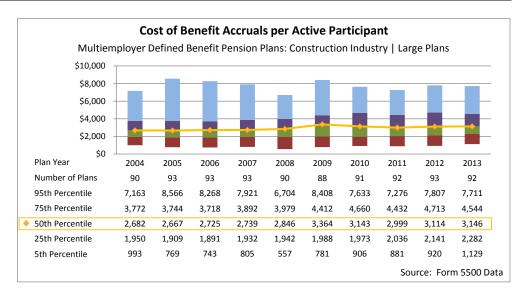


Exhibit 7.01B (Medium Plans)

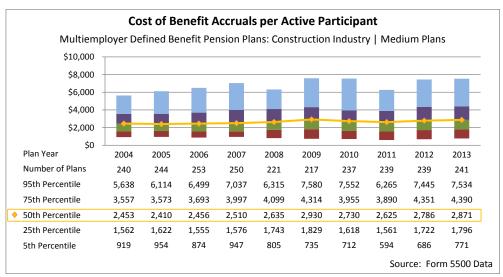


Exhibit 7.01C (Small Plans)

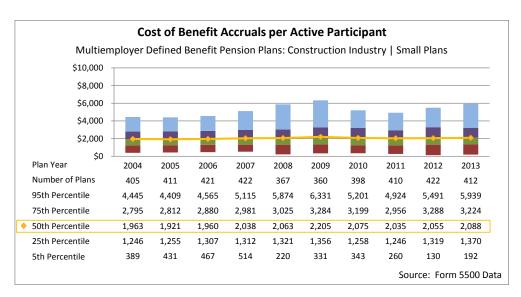




Exhibit 7.03A (Large Plans)

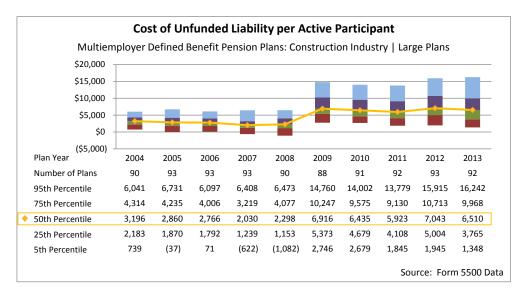


Exhibit 7.03B (Medium Plans)

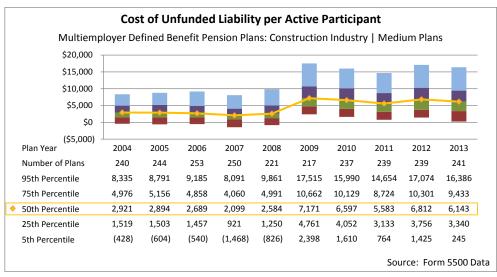


Exhibit 7.03C (Small Plans)

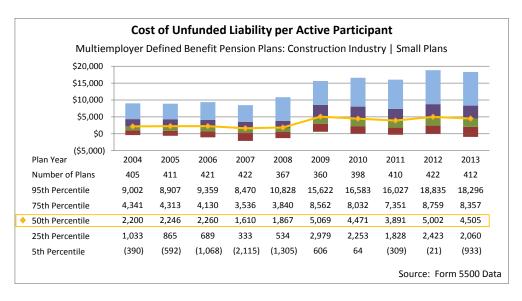




Exhibit 7.04A (Large Plans)

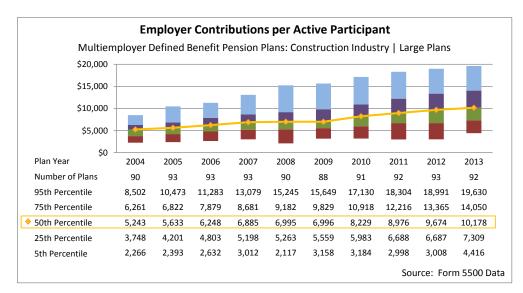


Exhibit 7.04B (Medium Plans)

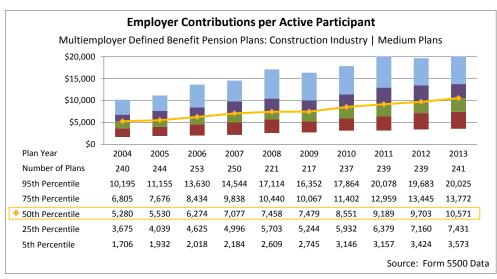


Exhibit 7.04C (Small Plans)

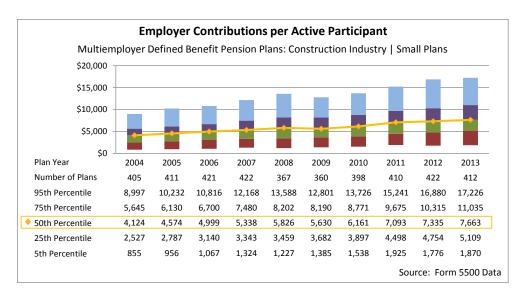




Exhibit 7.05A (Large Plans)

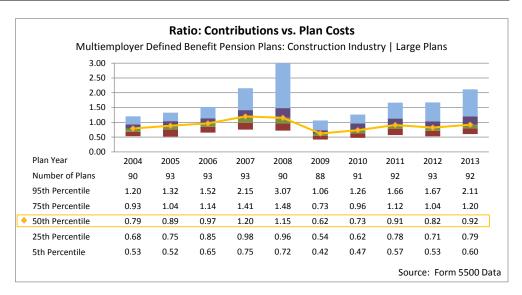


Exhibit 7.05B (Medium Plans)

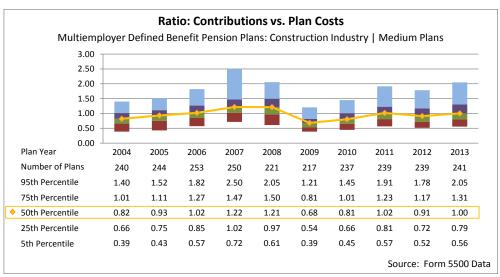
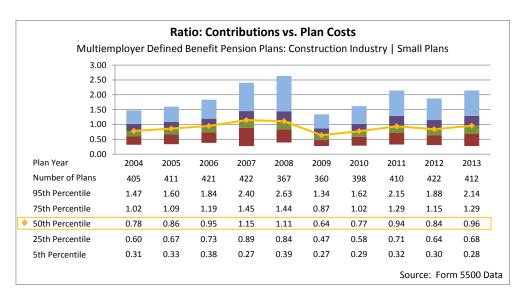


Exhibit 7.05C (Small Plans)





This section of the report takes a closer look at investment fees and operating expenses for construction industry plans. The intent of this section is to provide plan trustees with a sense of how their plans' fees and expenses compare with other plans in the construction industry.

Technical Note: Median and Average Results

The snapshot distribution graphs in this section show both median and average fees and expenses. However, as averages can be skewed by outliers, the commentary below focuses on median results.

Investment Fees

The majority of investment fees are paid to investment managers, usually as a percentage of assets. In general, more active or complicated investment strategies will have higher manager fees; passive or indexed strategies will have lower fees.

In most cases, investment fees will also include fees paid to consultants who advise plan trustees on investment decisions, as opposed to actually investing the money. Sometimes the Form 5500 preparer will classify investment consultant fees as professional fees, in which case they will count as operating expenses for purposes of this analysis.

Exhibit 8.01 below shows historical investment fees, as a percent of plan assets, over the last decade. Investment fees have remained relatively level over the last ten years, with some fluctuations.

Exhibit 8.02 shows the distribution of investment fees during the latest plan year. Median investment fees were 46 basis points ("bps"), or 0.46% of assets. Fewer than 2% of plans paid investment fees over 100 basis points. Similarly, fewer than 3% of plans paid fees less than 10 basis points.

Exhibit 8.02 (All Plans)

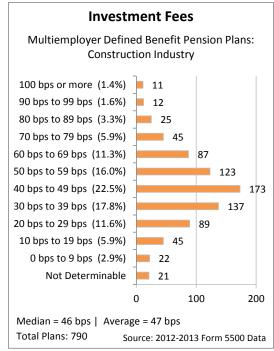
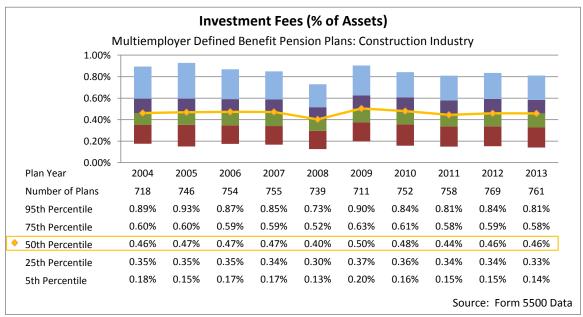


Exhibit 8.01





Below are separate exhibits showing investment fees for large (assets of at least \$500 million), medium (assets of at least \$100 million and less than \$500 million), and small (assets less than \$100 million) construction industry plans.

In general, larger plans will have lower investment fees than smaller plans when fees are expressed as a percentage of plan assets. As shown below, median investment fees were about 39 basis points for large plans, 43 basis points for medium plans, and 50 points for small plans. Note that for the 48 very large plans with assets of at least \$1 billion (not shown separately), median investment fees were 38 basis points, slightly lower than for all large plans.

MCAA Commentary

The consolidation of small plans would promote efficiency and economies of scale in plan administration and investments. Plan trustees may wish to consider mergers where appropriate.

Exhibit 8.02A (Large Plans)

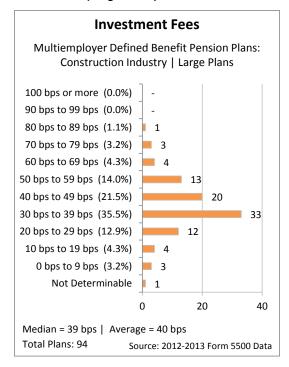


Exhibit 8.02B (Medium Plans)

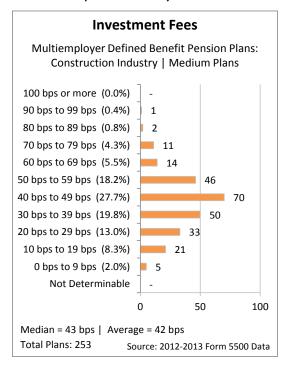
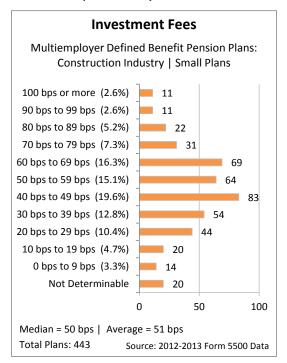


Exhibit 8.02C (Small Plans)



Per-Participant Operating Expenses

Operating expenses include the cost of administering the plan, fees paid to professionals (such as attorneys, auditors, actuaries, and consultants), and insurance and PBGC premiums. They exclude investment fees.

Technical Note: Operating Expense Data

Operating expenses shown in this section are as reported on Schedule H of the Form 5500. Detailed information on fees and expenses by individual providers is reported on Schedule C. However, the inventory does not contain sufficient data to perform a comprehensive analysis by type of provider (attorneys, actuaries, auditors, etc.). Instead, Exhibit 8.07 reviews fees paid to professionals in total.

As shown in Exhibit 8.03 below, when expressed as a per-participant cost, operating expenses have increased steadily over the period from 2004 through 2013. Median operating expenses increased from \$183 per participant to \$246 per participant over that period. That is a total increase of 34.4%, or 3.3% per year on average.

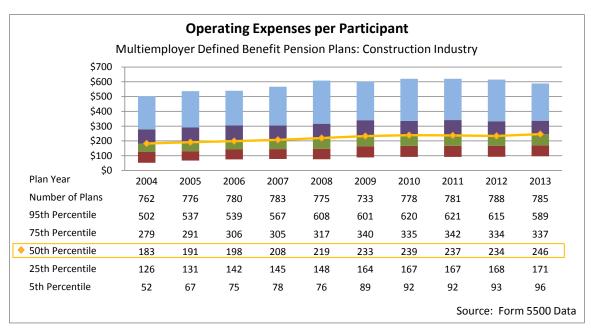
Recall that, when expressed as a cost per active participant in Exhibit 7.02, operating expenses appeared to be increasing at a much higher rate. As discussed in that section, it is more appropriate to express operating expenses on the basis of total participants rather than active participants only.

Exhibit 8.04 shows the snapshot distribution of operating expenses per participant, based on the latest Form 5500 filings for all 790 plans in the inventory. Exhibit 8.05 (later in this section) shows operating expenses on the basis of total dollars paid.

Exhibit 8.04 (All Plans)



Exhibit 8.03





As shown in Exhibit 8.04, median operating cost was \$247 per participant for the latest plan year for which a Form 5500 was filed.

About 78% of plans have operating expenses between \$100 and \$400 per participant. Less than 1% of plans have operating expenses of over \$1,000 per participant. About 5% of plans have operating expenses of less than \$100 per participant.

The following exhibits show per participant operating expenses for large, medium, and small plans. Note that the median operating expense for large plans is \$152 per participant, per year. The median per-participant expense for large plans is significantly lower than for medium plans (\$215 per participant), and it is about half of the median expense for small plans (\$290 per participant).

Exhibit 8.04A (Large Plans)



MCAA Commentary

As previously noted, the consolidation of small plans would promote efficiency and economies of scale in plan administration and investments. Plan trustees may wish to consider mergers when appropriate.

Exhibit 8.04B (Medium Plans)



Exhibit 8.04C (Small Plans)





Total Operating Expenses

In addition to reviewing operating expenses on a per participant basis, it may be useful for plan trustees to review operating expenses in *total*. The exhibits below are provided for reference.

Exhibit 8.05 (All Plans)

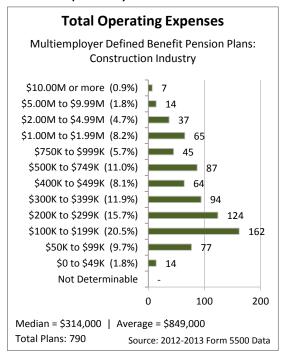


Exhibit 8.05A (Large Plans)

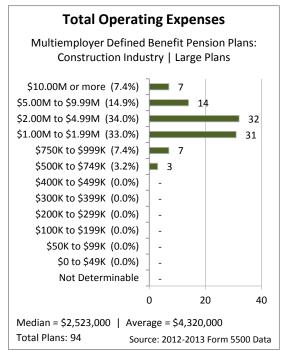


Exhibit 8.05B (Medium Plans)

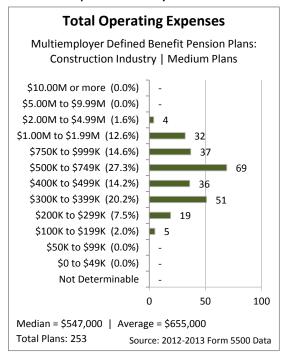
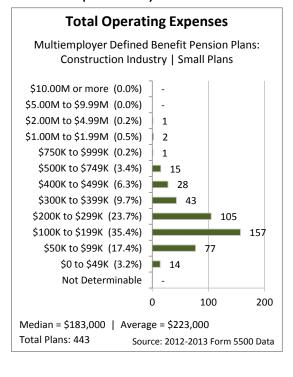


Exhibit 8.05C (Small Plans)





Administrative and Other Expenses

As an additional reference, the following exhibits show administrative and other expenses, which include the cost of salaries for fund employees or third party administrator fees, PBGC and insurance premiums, and general administrative costs.

Exhibit 8.06 (All Plans)

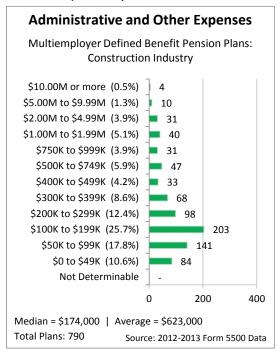


Exhibit 8.06A (Large Plans)

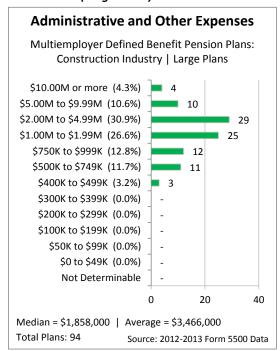


Exhibit 8.06B (Medium Plans)

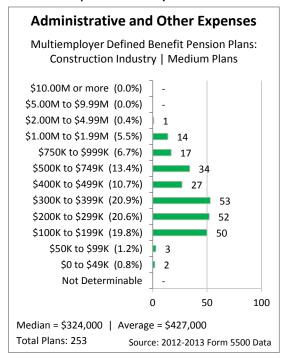
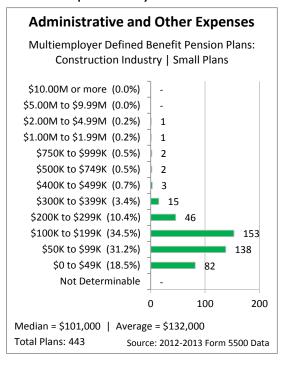


Exhibit 8.06C (Small Plans)



Exhibits showing professionals fees are shown on the following page. The sum of administrative and other expenses along with professionals' fees equals total operating expenses.



Professionals Fees

As an additional reference, the following exhibits show professionals fees, which are the total fees paid to attorneys, auditors, actuaries, and consultants.

Exhibit 8.07 (All Plans)

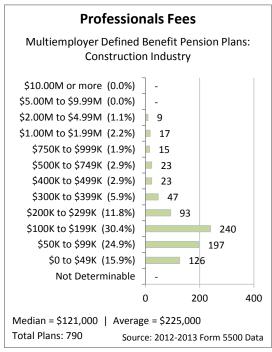


Exhibit 8.07A (Large Plans)

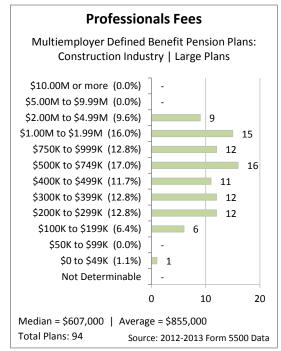


Exhibit 8.07B (Medium Plans)

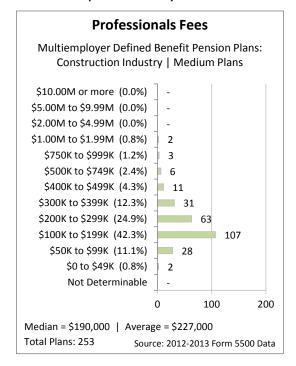
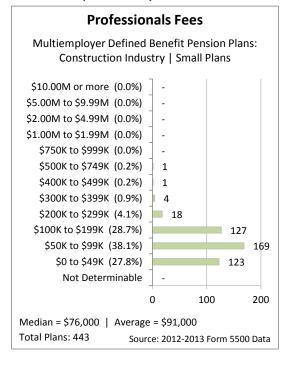


Exhibit 8.07C (Small Plans)



Appendix A provides detailed tables showing how plans covering different trades within the construction industry are distributed for selected statistics analyzed earlier in the report. (Fees and expenses are not analyzed here, as they are more related to plan size rather than trade affiliation.)

The tables in this appendix may be useful to trustees when comparing the latest results for their plan(s) against other plans in the same trade.

Construction Industry Trades

This section shows detailed results for the twelve (12) trades that have at least twenty construction industry plans covering their members:

- The United Association of Journeymen and Apprentices of the Plumbing and Pipefitting Industry ("Plumbers and Pipefitters" or "UA" – includes air conditioning, sprinkler, and refrigeration trades)
- 2. International Brotherhood of Electrical Workers ("Electrical Workers" or "IBEW")
- 3. Laborers' International Union of North America ("Laborers" or "LIUNA")
- International Union of Bricklayers and Allied Craftworkers ("Bricklayers and Allied Crafts" or "BAC")
- 5. Operative Plasterers' and Cement Masons' International Association ("Cement Masons")
- International Association of Bridge, Structural, Ornamental and Reinforcing Iron Workers ("Iron Workers")
- 7. Sheet Metal and Rail Transportation Workers ("Sheet Metal Workers")
- 8. International Association of Heat and Frost Insulators and Allied Workers ("Insulators and Allied Workers")
- International Union of Painters and Allied Trades ("Painters and Allied Trades" or "IUPAT" – includes glaziers, signage, and flooring trades)
- 10. United Union of Roofers, Waterproofers, and Allied Workers ("Roofers and Allied Workers")

- 11. International Union of Operating Engineers ("Operating Engineers" or "IUOE")
- 12. United Brotherhood of Carpenters ("Carpenters" or "UBC")

Other and Mixed Trades

Trades with fewer than twenty construction industry plans covering their members are included in the "other or mixed trades" category. These include the following three trades:

- International Brotherhood of Boilermakers, Iron Ship Builders, Blacksmiths, Forgers and Helpers
- International Union of Elevator Constructors
- International Brotherhood of Teamsters

Note that the inventory does not include plans outside of the construction industry plans, such as Teamster plans considered to be in the transportation industry.

Also note that plans covering two or more distinctly different trades in the construction industry are included in the "other or mixed trades" category.

Exhibit A.01 - Plans by Trade and Size

Exhibit A.01 below summarizes the number of plans by trade and by size. Recall that large plans have asset values of at least \$500 million, medium plans have asset values of at least \$100 million but less than \$500 million, and small plans have asset values of less than \$100 million.

Trade	Large	Medium	Small	Total
Plumbers and Pipefitters	10	59	79	148
Electrical Workers	12	46	63	121
Laborers	21	26	30	77
Bricklayers and Allied Crafts	1	12	54	67
Iron Workers	4	23	32	59
Cement Masons	1	10	47	58
Carpenters	21	19	12	52
Sheet Metal Workers	4	15	35	54
Insulators and Allied Workers	-	6	33	39
Operating Engineers	14	14	7	35
Painters and Allied Trades	2	11	18	31
Roofers and Allied Workers	1	2	20	23
Other or Mixed Trades	3	10	13	26
All Trades	94	253	443	790



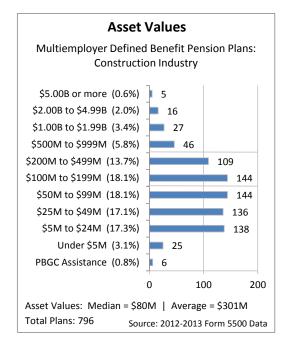
Exhibit A.02 – Asset Values

The following exhibits (Exhibit 2.01 repeated at right) show the distribution of construction industry plans by asset value. The assets are market values of assets as of the end of the latest plan year for which a Form 5500 was filed. In general, these will be for plan years ending on or about December 31, 2013.

As shown in the detailed table below, Operating Engineer and Carpenter plans are distributed more toward higher asset values than plans covering other trades. Cement Mason, Insulator, and Roofer plans are distributed more toward lower asset values.

As shown on the following page, there are similar differences when focusing on the number of participants as seen with asset values. This makes sense – all other things being equal, the more participants a plan covers, the greater its asset value needs to be.

Note that average results are higher than median results, as they are skewed by very large plans.



Asset Values

			Plumi	bers and	Ele	ctrical			Brickla	yers and			Ce	ment
	All T	rades	Pipe	efitters	Wo	orkers	Lab	orers	Allie	d Crafts	Iron \	Norkers	Ma	asons
Category	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total
\$5.00B or more	5	0.6%	1	0.7%	1	0.8%	-	-	-	-	-	-	-	-
\$1.00B to \$1.99B	27	3.4%	1	0.7%	3	2.5%	8	10.4%	1	1.5%	1	1.7%	-	-
\$500M to \$999M	46	5.8%	7	4.7%	7	5.8%	12	15.6%	-	-	2	3.3%	1	1.7%
\$200M to \$499M	109	13.7%	22	14.9%	15	12.4%	14	18.2%	3	4.4%	13	21.7%	3	5.2%
\$100M to \$199M	144	18.1%	37	25.0%	31	25.6%	12	15.6%	9	13.2%	10	16.7%	7	12.1%
\$50M to \$99M	144	18.1%	32	21.6%	22	18.2%	11	14.3%	17	25.0%	12	20.0%	14	24.1%
\$25M to \$49M	136	17.1%	29	19.6%	24	19.8%	6	7.8%	11	16.2%	11	18.3%	7	12.1%
\$5M to \$24M	138	17.3%	17	11.5%	17	14.0%	13	16.9%	21	30.9%	7	11.7%	18	31.0%
Under \$5M	25	3.1%	1	0.7%	-	-	-	-	5	7.4%	2	3.3%	8	13.8%
PBGC Assistance	6	0.8%				-		-	1	1.5%	1	1.7%		
Totals	796	100.0%	148	100.0%	121	100.0%	77	100.0%	68	100.0%	60	100.0%	58	100.0%
Average (\$Million)		301		212		304		394		81		240		76
Median (\$Million)		80		88		97		146		40		90		30

	Carp	enters		t Metal orkers		tors and Workers	•	erating ineers		ers and I Trades		ers and Workers		or Mixed ades
Category		% Total	_	% Total		% Total		% Total		% Total		% Total	_	% Total
\$5.00B or more	_	-	_	-	-	-	1	2.9%	-	-	_	-	2	7.7%
\$1.00B to \$1.99B	9	17.0%	_	-	-	-	2	5.7%	-	-	1	4.2%	1	3.8%
\$500M to \$999M	6	11.3%	3	5.6%	-	-	7	20.0%	1	3.1%	-	-	-	-
\$200M to \$499M	11	20.8%	9	16.7%	4	10.0%	5	14.3%	6	18.8%	2	8.3%	2	7.7%
\$100M to \$199M	8	15.1%	6	11.1%	2	5.0%	9	25.7%	5	15.6%	-	-	8	30.8%
\$50M to \$99M	4	7.5%	12	22.2%	4	10.0%	3	8.6%	5	15.6%	5	20.8%	3	11.5%
\$25M to \$49M	5	9.4%	16	29.6%	10	25.0%	3	8.6%	3	9.4%	5	20.8%	6	23.1%
\$5M to \$24M	2	3.8%	6	11.1%	17	42.5%	-	-	8	25.0%	9	37.5%	3	11.5%
Under \$5M	1	1.9%	1	1.9%	2	5.0%	1	2.9%	2	6.3%	1	4.2%	1	3.8%
PBGC Assistance	1	1.9%	-	-	1	2.5%	-	-	1	3.1%	1	4.2%	-	-
Totals	53	100.0%	54	100.0%	40	100.0%	35	100.0%	32	100.0%	24	100.0%	26	100.0%
Average (\$Million)		738		214		61		1,020		220		116		678
Median (\$Million)		343		60		27		265		84		31		99

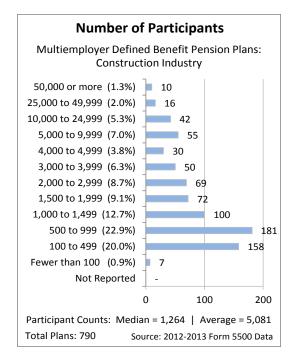


Exhibit A.03 – Number of Participants

These exhibits (Exhibit 2.02 repeated at right) show the distribution of construction industry plans by number of participants. Participant counts are those reported on the Form 5500 by the plan administrator and are as of the end of the plan year.

As shown in the detailed table below, Operating Engineer and Carpenter plans are distributed more toward larger numbers of covered participants than plans covering other trades. Cement Mason, Insulator, and Roofer plans are distributed more toward smaller numbers of covered participants.

Note that average results are higher than median results, as they are skewed by very large plans.



Number of Participants

			Plum	bers and	Ele	ctrical			Brickla	yers and			Ce	ment
	All T	rades	Pipe	efitters	Wo	orkers	Lab	orers	Allie	d Crafts	Iron \	Norkers	Ma	asons
Category	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total
50,000 or more	10	1.3%	1	0.7%	1	0.8%	1	1.3%	1	1.5%	1	1.7%	-	=
25,000 to 49,999	16	2.0%	1	0.7%	1	0.8%	4	5.2%	-	-	-	-	-	-
10,000 to 24,999	42	5.3%	2	1.4%	4	3.3%	11	14.3%	-	-	3	5.1%	1	1.7%
5,000 to 9,999	55	7.0%	5	3.4%	8	6.6%	13	16.9%	-	-	5	8.5%	1	1.7%
4,000 to 4,999	30	3.8%	5	3.4%	5	4.1%	3	3.9%	-	-	3	5.1%	1	1.7%
3,000 to 3,999	50	6.3%	8	5.4%	10	8.3%	6	7.8%	4	6.0%	6	10.2%	1	1.7%
2,000 to 2,999	69	8.7%	14	9.5%	12	9.9%	6	7.8%	6	9.0%	7	11.9%	3	5.2%
1,500 to 1,999	72	9.1%	22	14.9%	9	7.4%	6	7.8%	9	13.4%	4	6.8%	4	6.9%
1,000 to 1,499	100	12.7%	25	16.9%	23	19.0%	8	10.4%	8	11.9%	11	18.6%	8	13.8%
500 to 999	181	22.9%	43	29.1%	32	26.4%	10	13.0%	18	26.9%	12	20.3%	13	22.4%
100 to 499	158	20.0%	22	14.9%	16	13.2%	9	11.7%	20	29.9%	7	11.9%	24	41.4%
Fewer than 100	7	0.9%	-	-	-	-	-	-	1	1.5%	-	-	2	3.4%
Not Reported	-	N/A		N/A		N/A		N/A		N/A		N/A		N/A
Totals	790	100.0%	148	100.0%	121	100.0%	77	100.0%	67	100.0%	59	100.0%	58	100.0%
Average		5,081		2,917		6,917		7,085		2,230		4,389		1,210
Median		1,264		1,162		1,266		2,861		831		1,429		642

			Shee	t Metal	Insula	ators and	Ope	erating	Paint	ers and	Roof	ers and	Other	or Mixed
	Carp	enters	W	orkers	Allied	Workers	Eng	ineers	Allie	d Trades	Allied	Workers	Tr	ades
Category	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total
50,000 or more	1	1.9%	1	1.9%	-	-	1	2.9%	1	3.2%	-	-	1	3.8%
25,000 to 49,999	4	7.7%	-	-	-	-	3	8.6%	-	-	1	4.3%	2	7.7%
10,000 to 24,999	16	30.8%	2	3.7%	-	-	3	8.6%	-	-	-	-	-	-
5,000 to 9,999	9	17.3%	2	3.7%	1	2.6%	8	22.9%	2	6.5%	-	-	1	3.8%
4,000 to 4,999	4	7.7%	2	3.7%	1	2.6%	3	8.6%	-	-	-	-	3	11.5%
3,000 to 3,999	2	3.8%	3	5.6%	-	-	4	11.4%	4	12.9%	1	4.3%	1	3.8%
2,000 to 2,999	5	9.6%	4	7.4%	1	2.6%	2	5.7%	3	9.7%	2	8.7%	4	15.4%
1,500 to 1,999	2	3.8%	7	13.0%	1	2.6%	4	11.4%	1	3.2%	-	-	3	11.5%
1,000 to 1,499	2	3.8%	5	9.3%	-	-	4	11.4%	3	9.7%	2	8.7%	1	3.8%
500 to 999	3	5.8%	20	37.0%	9	23.1%	1	2.9%	9	29.0%	6	26.1%	5	19.2%
100 to 499	4	7.7%	8	14.8%	26	66.7%	2	5.7%	7	22.6%	10	43.5%	3	11.5%
Fewer than 100	-	-	-	-	-	-	-	-	1	3.2%	1	4.3%	2	7.7%
Not Reported		N/A		N/A		N/A		N/A		N/A		N/A		N/A
Totals	52	100.0%	54	100.0%	39	100.0%	35	100.0%	31	100.0%	23	100.0%	26	100.0%
Average		10,801		4,291		671		13,319		4,027		1,903		7,678
Median		6,905		943		312		4,443		941		516		1,867

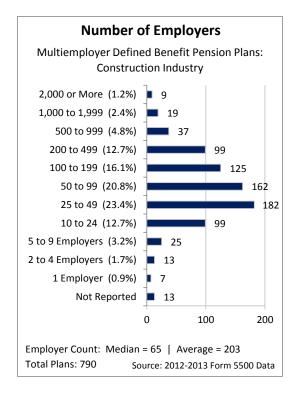


Exhibit A.04 – Number of Employers

These exhibits (Exhibit 2.03 repeated at right) show the distribution of construction industry plans by number of participating employers. Employer counts are those reported on the Form 5500 by the plan administrator and are as of the end of the plan year.

As shown in the detailed table below, Operating Engineer, Carpenter, and Laborer plans are distributed more toward larger numbers of participating employers than plans covering other trades. Insulator, Roofer, and Sheet Metal Worker plans are distributed more toward smaller numbers of participating employers.

Note that average results are higher than median results, as they are skewed by very large plans.



Number of Employers

			Plum	bers and	Ele	ctrical			Brickla	yers and			Ce	ment
	All T	rades	Pipe	efitters	Wo	orkers	Lab	orers	Allie	d Crafts	Iron \	Norkers	Ma	asons
Category	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total
2,000 or More	9	1.2%	1	0.7%	1	0.8%	-	-	1	1.5%	-	-	1	1.9%
1,000 to 1,999	19	2.4%	-	-	-	_	5	6.6%	-	-	1	1.8%	-	-
500 to 999	37	4.8%	1	0.7%	3	2.5%	13	17.1%	-	-	4	7.0%	-	-
200 to 499	99	12.7%	12	8.1%	17	14.0%	17	22.4%	5	7.5%	10	17.5%	4	7.4%
100 to 199	125	16.1%	21	14.2%	18	14.9%	21	27.6%	12	17.9%	10	17.5%	15	27.8%
50 to 99	162	20.8%	44	29.7%	28	23.1%	15	19.7%	19	28.4%	11	19.3%	11	20.4%
25 to 49	182	23.4%	47	31.8%	42	34.7%	4	5.3%	16	23.9%	10	17.5%	11	20.4%
10 to 24	99	12.7%	17	11.5%	9	7.4%	1	1.3%	10	14.9%	7	12.3%	5	9.3%
5 to 9 Employers	25	3.2%	2	1.4%	1	0.8%	-	-	2	3.0%	3	5.3%	3	5.6%
2 to 4 Employers	13	1.7%	2	1.4%	1	0.8%	-	-	2	3.0%	1	1.8%	2	3.7%
1 Employer	7	0.9%	1	0.7%	1	0.8%	-	-	-	-	-	-	2	3.7%
Not Reported	13	N/A	-	N/A	_	N/A	1	N/A	-	N/A	2	N/A	4	N/A
Totals	790	100.0%	148	100.0%	121	100.0%	77	100.0%	67	100.0%	59	100.0%	58	100.0%
Average		203		116		181		321		124		169		128
Median		65		56		57		171		58		75		62
				t Metal		tors and	•	rating		ers and		ers and		or Mixed
		enters		t Metal orkers		tors and Workers	•	erating ineers		ers and d Trades		ers and Workers		or Mixed ades
Category		% Total	Wo	orkers % Total	Allied		Eng	ineers % Total	Allie	% Total	Allied	Workers % Total	Tr	
Category 2,000 or More	Count 1	% Total 2.0%	Wo	orkers	Allied	Workers	Eng	ineers % Total 2.9%	Allie	d Trades	Allied	Workers	Tr	ades
	Count 1 8	% Total 2.0% 16.0%	W o Count	% Total 1.9%	Allied	Workers	Eng Count 1 5	% Total 2.9% 14.7%	Allied	% Total	Allied Count	Workers % Total	Tr	% Total
2,000 or More	Count 1	% Total 2.0%	Count	orkers % Total	Allied	Workers	Eng Count	ineers % Total 2.9%	Allied	% Total	Allied Count	Workers % Total	Tr	ades
2,000 or More 1,000 to 1,999	Count 1 8	% Total 2.0% 16.0%	Count 1	% Total 1.9%	Allied	Workers % Total - -	Eng Count 1 5	% Total 2.9% 14.7%	Allied Count	% Total	Allied Count	Workers % Total 4.5%	Count	% Total
2,000 or More 1,000 to 1,999 500 to 999	Count 1 8 7	% Total 2.0% 16.0% 14.0%	Count 1 - 1	% Total 1.9% - 1.9%	Allied Count - -	Workers % Total - - -	Eng Count 1 5 5	% Total 2.9% 14.7% 14.7%	Allied Count 1	% Total 3.3%	Allied Count	Workers % Total 4.5%	Count - - 3	**Total - 12.0%
2,000 or More 1,000 to 1,999 500 to 999 200 to 499	Count 1 8 7 12	% Total 2.0% 16.0% 14.0% 24.0% 14.0% 12.0%	Count 1 - 1 6	% Total 1.9% - 1.9% 11.1% 9.3% 18.5%	Allied Count	Workers % Total - - -	Eng Count 1 5 5	% Total 2.9% 14.7% 14.7% 26.5% 17.6% 8.8%	Count 1 - - 4	% Total 3.3% - 13.3% 10.0% 20.0%	Allied Count 1	Workers % Total 4.5%	Count 3 1	*** Total
2,000 or More 1,000 to 1,999 500 to 999 200 to 499 100 to 199	Count 1 8 7 12 7	% Total 2.0% 16.0% 14.0% 24.0% 14.0%	Count 1 1 6 5	7 Total 1.9% 1.9% 1.9% 11.1% 9.3%	Allied Count	Workers % Total 5.1%	Eng Count 1 5 5 9 6	% Total 2.9% 14.7% 14.7% 26.5% 17.6%	Count 1 - 4 3	% Total 3.3% - 13.3% 10.0%	Allied Count 1 - - 2	Workers % Total 4.5%	Count 3 1 5	**Total
2,000 or More 1,000 to 1,999 500 to 999 200 to 499 100 to 199 50 to 99	Count 1 8 7 12 7 6	% Total 2.0% 16.0% 14.0% 24.0% 14.0% 12.0%	Count 1 - 1 6 5 10	% Total 1.9% - 1.9% 11.1% 9.3% 18.5%	Allied Count	Workers % Total 5.1% - 7.7%	Eng Count 1 5 5 9 6 3	% Total 2.9% 14.7% 14.7% 26.5% 17.6% 8.8%	Count 1 - 4 3 6	% Total 3.3% - 13.3% 10.0% 20.0%	Allied Count 1 - - 2	Workers % Total 4.5% 9.1% -	Tr Count - - 3 1 5 6	**************************************
2,000 or More 1,000 to 1,999 500 to 999 200 to 499 100 to 199 50 to 99 25 to 49	Count 1 8 7 12 7 6 4	% Total 2.0% 16.0% 14.0% 24.0% 14.0% 12.0% 8.0%	Count 1 1 6 5 10 19	% Total 1.9% 1.9% 11.1% 9.3% 18.5% 35.2%	Allied Count	Workers % Total 5.1% - 7.7% 25.6%	Eng Count 1 5 5 9 6 3 3	% Total 2.9% 14.7% 14.7% 26.5% 17.6% 8.8% 8.8%	Count 1 - 4 3 6 7	% Total 3.3% 	Allied Count 1 - - 2 - 8	Workers % Total 4.5% 9.1% - 36.4%	Tr Count - - 3 1 5 6 1	12.0% 4.0% 20.0% 24.0% 4.0%
2,000 or More 1,000 to 1,999 500 to 999 200 to 499 100 to 199 50 to 99 25 to 49 10 to 24	Count 1 8 7 12 7 6 4 4	% Total 2.0% 16.0% 14.0% 24.0% 14.0% 12.0% 8.0% 8.0%	Count 1 1 6 5 10 19 10	% Total 1.9% 1.9% 11.1% 9.3% 18.5% 35.2%	Allied Count	Workers % Total 5.1% - 7.7% 25.6% 43.6%	Eng Count 1 5 5 9 6 3 3	% Total 2.9% 14.7% 14.7% 26.5% 17.6% 8.8% 8.8%	Allied Count 1 4 3 6 7 8	% Total 3.3% 	Allied Count 1 - - 2 - 8 6	Workers % Total 4.5% 9.1% - 36.4% 27.3%	Tr Count 	12.0% 4.0% 20.0% 24.0% 4.0% 20.0%
2,000 or More 1,000 to 1,999 500 to 999 200 to 499 100 to 199 50 to 99 25 to 49 10 to 24 5 to 9 Employers	Count 1 8 7 12 7 6 4 4	% Total 2.0% 16.0% 14.0% 24.0% 14.0% 12.0% 8.0% 8.0%	Count 1 6 5 10 19 10	% Total 1.9% 1.1.1% 9.3% 18.5% 35.2% 18.5%	Allied Count	Workers % Total 5.1% - 7.7% 25.6% 43.6%	Eng Count 1 5 5 9 6 3 3	ineers % Total 2.9% 14.7% 14.7% 26.5% 17.6% 8.8% 8.8%	Allied Count 1 4 3 6 7 8	% Total 3.3% 	Allied Count 1 - - 2 - 8 6	Workers % Total 4.5% 9.1% - 36.4% 27.3%	Tr Count 3 1 5 6 1 5 1	12.0% 4.0% 20.0% 24.0% 4.0% 20.0% 4.0%
2,000 or More 1,000 to 1,999 500 to 999 200 to 499 100 to 199 50 to 99 25 to 49 10 to 24 5 to 9 Employers 2 to 4 Employers	Count 1 8 7 12 7 6 4 4	% Total 2.0% 16.0% 14.0% 24.0% 14.0% 12.0% 8.0% 8.0%	Count 1 6 5 10 19 10 - 2	% Total 1.9% 1.1.1% 9.3% 18.5% 35.2% 18.5%	Allied Count	Workers % Total 5.1% - 7.7% 25.6% 43.6% 15.4%	Eng Count 1 5 5 9 6 3 3 -	ineers % Total 2.9% 14.7% 14.7% 26.5% 17.6% 8.8% 8.8%	Allied Count 1 4 3 6 7 8	% Total 3.3% 	Allied Count 1 - - 2 - 8 6	Workers % Total 4.5% 9.1% - 36.4% 27.3%	Tr Count	12.0% 4.0% 20.0% 24.0% 4.0% 20.0% 4.0% 8.0%
2,000 or More 1,000 to 1,999 500 to 999 200 to 499 100 to 199 50 to 99 25 to 49 10 to 24 5 to 9 Employers 2 to 4 Employers	Count 1 8 7 12 7 6 4 4 1	% Total 2.0% 16.0% 14.0% 24.0% 14.0% 12.0% 8.0% 2.0%	Count 1 1 6 5 10 19 10 - 2	% Total 1.9% - 1.9% 11.1% 9.3% 18.5% 35.2% 18.5% - 3.7%	Allied Count 2 - 3 10 17 6 - 1	Workers % Total 5.1% - 7.7% 25.6% 43.6% 15.4% - 2.6%	Eng Count 1 5 5 9 6 3 3 -	### Section	Alliec Count 1 4 4 3 6 6 7 8 1	% Total 3.3% 13.3% 10.0% 20.0% 23.3% 26.7% 3.3%	Allied Count 1 - - 2 - 8 6 5	Workers % Total 4.5% 9.1% - 36.4% 27.3% 22.7%	Tr Count	12.0% 4.0% 20.0% 24.0% 4.0% 20.0% 4.0% 4.0% 4.0% 4.0%
2,000 or More 1,000 to 1,999 500 to 999 200 to 499 100 to 199 50 to 99 25 to 49 10 to 24 5 to 9 Employers 2 to 4 Employers 1 Employer Not Reported	Count 1 8 7 12 7 6 4 4 1 2	% Total 2.0% 16.0% 14.0% 24.0% 12.0% 8.0% 8.0% 2.0%	Count 1 1 6 5 10 19 10 - 2	% Total 1.9% - 1.9% 11.1% 9.3% 18.5% 35.2% - 3.7% - N/A	Allied Count 2 - 3 10 17 6 - 1	Workers % Total 5.1% - 7.7% 25.6% 43.6% 15.4% - 2.6% N/A	Eng Count 1 5 5 9 6 3 3 - - 1 1 1	Total 2.9% 14.7% 14.7% 26.5% 17.6% 8.8% 8.8% - 2.9% 2.9% N/A	Alliec Count 1 - - 4 3 6 7 8 1 - - 1	13.3% 10.0% 20.0% 23.3% 26.7% 3.3%	Allied Count 1 2 - 8 6 5 1	Workers % Total 4.5% 9.1% - 36.4% 27.3% 22.7% - N/A	Tr Count 3 1 5 6 1 5 1 2 1	12.0% 4.0% 20.0% 24.0% 4.0% 20.0% 4.0% 4.0% 8.0% 4.0% N/A
2,000 or More 1,000 to 1,999 500 to 999 200 to 499 100 to 199 50 to 99 25 to 49 10 to 24 5 to 9 Employers 2 to 4 Employers 1 Employer Not Reported Totals	Count 1 8 7 12 7 6 4 4 1 2	% Total 2.0% 16.0% 14.0% 24.0% 12.0% 8.0% 8.0% 2.0% N/A	Count 1 1 6 5 10 19 10 - 2	nkers % Total 1.9% 1.9% 11.1% 9.3% 18.5% 35.2% 18.5% - 3.7% - N/A 100.0%	Allied Count 2 - 3 10 17 6 - 1	Workers % Total 5.1% - 7.7% 25.6% 43.6% 15.4% - 2.6% N/A 100.0%	Eng Count 1 5 5 9 6 3 3 - - 1 1 1	## Total 2.9% 14.7% 14.7% 26.5% 17.6% 8.8% 8.8% 2.9% N/A 100.0%	Alliec Count 1 - - 4 3 6 7 8 1 - - 1	13.3% 10.0% 23.3% 26.7% 3.3% 100.0%	Allied Count 1 2 - 8 6 5 1	Workers % Total 4.5%	Tr Count 3 1 5 6 1 5 1 2 1	12.0% 4.0% 20.0% 4.0% 20.0% 4.0% 4.0% 100.0%



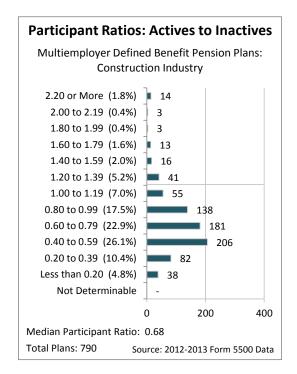
Exhibit A.05 - Participant Ratios

These exhibits (which were derived from the latest results in Exhibit 3.02) show the distribution of construction industry plans by their participant ratios.

The participant ratios in these exhibits represent the number of actively working participants over the number of inactive participants (which includes inactive vested participants, retirees, and beneficiaries) as of the end of the latest plan year.

As described earlier in the report, a higher ratio usually means it is easier for a plan to correct a funding shortfall by increasing contribution rates or decreasing future benefit accruals. A lower ratio usually means that it is more difficult for a plan to improve funding through these means.

As shown below, there are considerable differences in the participant ratios from trade to trade.



Participant Ratios: Actives to Inactives

			Plum	bers and	Ele	ctrical			Brickla	yers and			Ce	ment
	All T	rades	Pipe	efitters	W	orkers	Lal	orers	Allie	d Crafts	Iron \	Workers	M	asons
Category	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total
2.20 or More	14	1.8%	2	1.4%	4	3.3%	1	1.3%	4	6.0%	-	-	1	1.7%
2.00 to 2.19	3	0.4%	2	1.4%	-	-	-	-	-	-	-	-	-	-
1.80 to 1.99	3	0.4%	1	0.7%	-	-	-	-	-	-	1	1.7%	-	-
1.60 to 1.79	13	1.6%	3	2.0%	3	2.5%	1	1.3%	1	1.5%	-	-	3	5.2%
1.40 to 1.59	16	2.0%	3	2.0%	5	4.1%	-	-	1	1.5%	2	3.4%	-	-
1.20 to 1.39	41	5.2%	16	10.8%	11	9.1%	2	2.6%	1	1.5%	1	1.7%	2	3.4%
1.00 to 1.19	55	7.0%	15	10.1%	16	13.2%	4	5.2%	4	6.0%	-	-	5	8.6%
0.80 to 0.99	138	17.5%	35	23.6%	32	26.4%	12	15.6%	6	9.0%	6	10.2%	8	13.8%
0.60 to 0.79	181	22.9%	33	22.3%	24	19.8%	17	22.1%	11	16.4%	11	18.6%	13	22.4%
0.40 to 0.59	206	26.1%	32	21.6%	22	18.2%	25	32.5%	17	25.4%	26	44.1%	13	22.4%
0.20 to 0.39	82	10.4%	4	2.7%	-	-	14	18.2%	20	29.9%	6	10.2%	7	12.1%
Less than 0.20	38	4.8%	2	1.4%	4	3.3%	1	1.3%	2	3.0%	6	10.2%	6	10.3%
Not Determinable	-	N/A	-	N/A	-	N/A	-	N/A	-	N/A	-	N/A	-	N/A
Totals	790	100.0%	148	100.0%	121	100.0%	77	100.0%	67	100.0%	59	100.0%	58	100.0%
Median		0.68		0.82		0.87		0.59		0.52		0.53		0.65

			Shee	t Metal	Insula	itors and	Ope	erating	Pain	ters and	Root	ers and	Other	or Mixed
	Carp	enters	W	orkers	Allied	Workers	Eng	ineers	Allie	d Trades	Allied	Workers	Tr	ades
Category	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total
2.20 or More	-	-	1	1.9%	1	2.6%	-	-	-	-	-	-	-	-
2.00 to 2.19	-	-	-	-	-	-	-	-	-	-	1	4.3%	-	-
1.80 to 1.99	-	-	1	1.9%	-	-	-	-	-	-	-	-	-	-
1.60 to 1.79	-	-	-	-	-	-	-	-	1	3.2%	1	4.3%	-	-
1.40 to 1.59	1	1.9%	1	1.9%	2	5.1%	1	2.9%	-	-	-	-	-	-
1.20 to 1.39	1	1.9%	1	1.9%	3	7.7%	1	2.9%	-	-	1	4.3%	1	3.8%
1.00 to 1.19	-	-	1	1.9%	3	7.7%	1	2.9%	1	3.2%	2	8.7%	3	11.5%
0.80 to 0.99	6	11.5%	13	24.1%	6	15.4%	5	14.3%	2	6.5%	5	21.7%	2	7.7%
0.60 to 0.79	10	19.2%	15	27.8%	11	28.2%	17	48.6%	11	35.5%	5	21.7%	3	11.5%
0.40 to 0.59	21	40.4%	15	27.8%	7	17.9%	5	14.3%	11	35.5%	6	26.1%	6	23.1%
0.20 to 0.39	9	17.3%	4	7.4%	5	12.8%	3	8.6%	3	9.7%	1	4.3%	6	23.1%
Less than 0.20	4	7.7%	2	3.7%	1	2.6%	2	5.7%	2	6.5%	1	4.3%	5	19.2%
Not Determinable	-	N/A	-	N/A	-	N/A	-	N/A	-	N/A	-	N/A	-	N/A
Totals	52	100.0%	54	100.0%	39	100.0%	35	100.0%	31	100.0%	23	100.0%	26	100.0%
Median		0.50		0.69		0.72		0.69		0.58		0.73		0.46



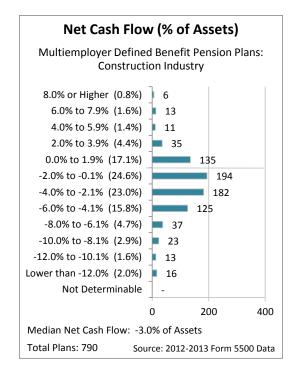
Exhibit A.06 - Net Cash Flows

These exhibits (which were derived from the latest results in Exhibit 4.02) show the distribution of construction industry plans by their net cash flows.

A plan has a positive net cash flow if its contributions exceed its disbursements (benefits paid plus operating expenses); the net cash flow is negative if disbursements exceed contributions. Net cash flows are expressed as a percentage of the average asset value for the plan year.

As shown below, there are considerable differences in net cash flows from trade to trade.

Recall that plans with very negative cash flows – for example, exceeding 8.0% of assets – are more likely to be approaching insolvency and to be certified in critical and declining status under MPRA.



Net Cash Flow (% of Assets)

			Plum	bers and	Ele	ctrical			Brickla	yers and			Ce	ment
	All T	rades	Pipe	efitters	Wo	orkers	Lab	orers	Allie	d Crafts	Iron \	Norkers	Ma	asons
Category	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total
8.0% or Higher	6	0.8%	1	0.7%	2	1.7%	1	1.3%		-	-	-	1	1.7%
6.0% to 7.9%	13	1.6%	3	2.0%	2	1.7%	1	1.3%	2	3.0%	-	-	3	5.2%
4.0% to 5.9%	11	1.4%	5	3.4%	1	0.8%	2	2.6%	-	-	-	-	1	1.7%
2.0% to 3.9%	35	4.4%	11	7.4%	5	4.1%	4	5.2%	3	4.5%	2	3.4%	2	3.4%
0.0% to 1.9%	135	17.1%	27	18.2%	29	24.0%	11	14.3%	6	9.0%	7	11.9%	10	17.2%
-2.0% to -0.1%	194	24.6%	48	32.4%	35	28.9%	16	20.8%	16	23.9%	6	10.2%	13	22.4%
-4.0% to -2.1%	182	23.0%	28	18.9%	29	24.0%	18	23.4%	11	16.4%	18	30.5%	10	17.2%
-6.0% to -4.1%	125	15.8%	20	13.5%	15	12.4%	12	15.6%	19	28.4%	12	20.3%	7	12.1%
-8.0% to -6.1%	37	4.7%	3	2.0%	3	2.5%	6	7.8%	3	4.5%	3	5.1%	2	3.4%
-10.0% to -8.1%	23	2.9%	1	0.7%	-	-	3	3.9%	3	4.5%	7	11.9%	2	3.4%
-12.0% to -10.1%	13	1.6%	1	0.7%	-	-	1	1.3%	1	1.5%	1	1.7%	3	5.2%
Lower than -12.0%	16	2.0%	-	-	-	-	2	2.6%	3	4.5%	3	5.1%	4	6.9%
Not Determinable	-	N/A	-	N/A	-	N/A	-	N/A	-	N/A	-	N/A	-	N/A
Totals	790	100.0%	148	100.0%	121	100.0%	77	100.0%	67	100.0%	59	100.0%	58	100.0%
Median		-3.0%		-2.3%		-2.3%		-3.8%		-3.9%		-4.8%		-3.0%

			Snee	et ivietai	insuia	itors and	Ope	erating	Pain	ters and	KOO	rers and	Otner	or iviixea
	Carp	enters	W	orkers	Allied	Workers	Eng	ineers	Allie	d Trades	Allied	Workers	Tr	ades
Category	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total
8.0% or Higher	-	-	1	1.9%	_	_	_	-		-		_	-	-
6.0% to 7.9%	-	-	1	1.9%	-	-	-	-	-	-	1	4.3%	-	-
4.0% to 5.9%	-	-	1	1.9%	-	-	-	-	1	3.2%	-	-	-	-
2.0% to 3.9%	1	1.9%	-	-	2	5.1%	1	2.9%	1	3.2%	2	8.7%	1	3.8%
0.0% to 1.9%	7	13.5%	10	18.5%	6	15.4%	7	20.0%	7	22.6%	3	13.0%	5	19.2%
-2.0% to -0.1%	13	25.0%	15	27.8%	9	23.1%	7	20.0%	4	12.9%	8	34.8%	4	15.4%
-4.0% to -2.1%	13	25.0%	15	27.8%	10	25.6%	9	25.7%	11	35.5%	6	26.1%	4	15.4%
-6.0% to -4.1%	9	17.3%	6	11.1%	8	20.5%	6	17.1%	4	12.9%	1	4.3%	6	23.1%
-8.0% to -6.1%	4	7.7%	4	7.4%	2	5.1%	2	5.7%	1	3.2%	2	8.7%	2	7.7%
-10.0% to -8.1%	4	7.7%	-	-	1	2.6%	-	-	2	6.5%	-	-	-	-
-12.0% to -10.1%	-	-	-	-	-	-	2	5.7%	-	-	-	-	4	15.4%
Lower than -12.0%	1	1.9%	1	1.9%	1	2.6%	1	2.9%	-	-	-	-	-	-
Not Determinable	-	N/A	-	N/A	-	N/A	-	N/A	-	N/A	-	N/A	-	N/A
Totals	52	100.0%	54	100.0%	39	100.0%	35	100.0%	31	100.0%	23	100.0%	26	100.0%
Median		-3.9%		-2.9%		-3.2%		-3.7%		-3.7%		-2.6%		-4.3%



Exhibit A.07 – Annualized Returns

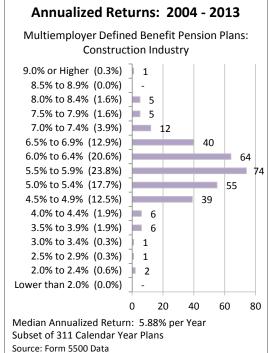
These exhibits (Exhibit 5.02 repeated at right) show annualized investment returns, net of fees, for the tenyear period from 2004 through 2013.

The results on this page include only the 311 construction industry plans that have calendar plan years and also have complete Form 5500 data for each of the ten years from 2004 through 2013.

Given the very small sample sizes in the detailed table below, it may not be appropriate to draw conclusions about differences between plans in different trades.

It is important to keep in mind that a ten-year horizon is too short a period over which to evaluate an investment policy for a pension plan. Further, returns are very endpoint-sensitive; they can change significantly as the measurement period moves by even one year.

Note that the detailed table below combines results at the upper and lower ends of the range.



Annualized Returns: 2004 - 2013

			Pluml	ers and	Ele	ctrical			Brickla	yers and			Ce	ment
	All T	rades	Pipe	fitters	Wo	orkers	Lak	orers	Allie	d Crafts	Iron \	Workers	Ma	asons
Category	Count	% Total	Count	% Total	Count	% Total	Count	% Total						
7.0% or Higher	6	1.9%	2	3.4%	3	6.0%	-	-	-	-	-	-	-	-
7.5% to 7.9%	5	1.6%	1	1.7%	2	4.0%	-	-	-	-	1	4.8%	-	-
7.0% to 7.4%	12	3.9%	1	1.7%	2	4.0%	1	3.2%	1	4.5%	1	4.8%	1	5.3%
6.5% to 6.9%	40	12.9%	5	8.5%	6	12.0%	5	16.1%	4	18.2%	4	19.0%	-	-
6.0% to 6.4%	64	20.6%	13	22.0%	16	32.0%	5	16.1%	3	13.6%	5	23.8%	3	15.8%
5.5% to 5.9%	74	23.8%	17	28.8%	5	10.0%	7	22.6%	7	31.8%	4	19.0%	5	26.3%
5.0% to 5.4%	55	17.7%	9	15.3%	7	14.0%	7	22.6%	4	18.2%	2	9.5%	4	21.1%
4.5% to 4.9%	39	12.5%	4	6.8%	7	14.0%	4	12.9%	3	13.6%	3	14.3%	5	26.3%
4.0% to 4.4%	6	1.9%	4	6.8%	1	2.0%	1	3.2%	-	-	-	-	-	-
3.5% to 3.9%	6	1.9%	1	1.7%	1	2.0%	1	3.2%	-	-	-	-	1	5.3%
3.0% to 3.4%	1	0.3%	-	-	-	-	-	-	-	-	-	-	-	-
Lower than 2.0%	3	1.0%	2	3.4%							1	4.8%		
Totals	311	100.0%	59	100.0%	50	100.0%	31	100.0%	22	100.0%	21	100.0%	19	100.0%
Median		5.88%		5.78%		6.17%		5.69%		5.80%		6.03%		5.36%

			Shee	et Metal	Insula	itors and	Ope	erating	Pain	ters and	Root	ters and	Other	or Mixed
	Carp	enters	W	orkers	Allied	Workers	Eng	ineers	Allie	d Trades	Allied	Workers	Tr	ades
Category	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total
7.0% or Higher	-	-	-	-	1	4.5%	-	-	-	-	-	-	-	-
7.5% to 7.9%	-	-	-	-	1	4.5%	-	-	-	-	-	-	-	-
7.0% to 7.4%	1	4.5%	2	10.5%	-	-	1	5.6%	-	-	-	-	1	8.3%
6.5% to 6.9%	5	22.7%	-	-	4	18.2%	3	16.7%	2	28.6%	-	-	2	16.7%
6.0% to 6.4%	5	22.7%	5	26.3%	4	18.2%	-	-	3	42.9%	1	11.1%	1	8.3%
5.5% to 5.9%	3	13.6%	8	42.1%	4	18.2%	7	38.9%	2	28.6%	3	33.3%	2	16.7%
5.0% to 5.4%	3	13.6%	2	10.5%	7	31.8%	2	11.1%	-	-	3	33.3%	5	41.7%
4.5% to 4.9%	3	13.6%	2	10.5%	1	4.5%	4	22.2%	-	-	2	22.2%	1	8.3%
4.0% to 4.4%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.5% to 3.9%	1	4.5%	-	-	-	-	1	5.6%	-	-	-	-	-	-
3.0% to 3.4%	1	4.5%	-	-	-	-	-	-	-	-	-	-	-	-
Lower than 2.0%	_	-				-		-		_				
Totals	22	100.0%	19	100.0%	22	100.0%	18	100.0%	7	100.0%	9	100.0%	12	100.0%
Median		5.99%		5.90%		5.92%		5.86%		6.35%		5.38%		5.66%



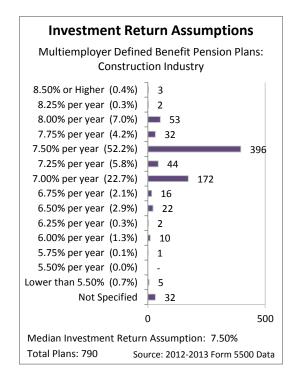
Exhibit A.08 – Investment Return Assumptions

These exhibits (Exhibit 5.03 repeated at right) show investment return assumptions, as reported by each plan's actuary on the latest Form 5500 Schedule MB, usually for the plan years ending on or about December 31, 2013.

Multiemployer pension plans are usually invested in a well-diversified mix of stocks, bonds, and alternative investments structured to maximize returns over the long term while minimizing return volatility. The actuary to a multiemployer plan must evaluate its asset mix and, based on expectations of future returns, develop an assumption for what plan assets are projected to earn over the long term.

As shown below, there are no significant differences in the distribution of investment return assumptions between plans in different trades.

Note that the detailed table below combines results at the lower end of the range.



Investment Return Assumptions

	All T	rades		bers and efitters		ctrical orkers	Lak	orers		yers and d Crafts	Iron \	Workers		ment asons
Category	Count	% Total	Count	Count % Total		% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total
8.50% or Higher	3	0.4%	1	0.7%	_	_	-	_	1	1.5%	_	-	-	-
8.25%	2	0.3%	-	-	_	-	-	-	-	-	1	1.8%	-	-
8.00%	53	7.0%	13	9.0%	8	7.0%	5	6.7%	4	6.2%	5	9.1%	5	9.1%
7.75%	32	4.2%	2	1.4%	6	5.3%	4	5.3%	2	3.1%	3	5.5%	-	-
7.50%	396	52.2%	73	50.7%	59	51.8%	44	58.7%	31	47.7%	30	54.5%	26	47.3%
7.25%	44	5.8%	2	1.4%	19	16.7%	3	4.0%	3	4.6%	1	1.8%	2	3.6%
7.00%	172	22.7%	45	31.3%	18	15.8%	14	18.7%	16	24.6%	8	14.5%	14	25.5%
6.75%	16	2.1%	3	2.1%	1	0.9%	1	1.3%	2	3.1%	3	5.5%	_	-
6.50%	22	2.9%	4	2.8%	1	0.9%	1	1.3%	5	7.7%	1	1.8%	4	7.3%
6.25%	2	0.3%	1	0.7%	-	-	-	-	-	-	1	1.8%	-	-
6.00% or Lower	16	2.1%	-	-	2	1.8%	3	4.0%	1	1.5%	2	3.6%	4	7.3%
Not Specified	32	N/A	4	N/A	7	N/A	2	N/A	2	N/A	4	N/A	3	N/A
Totals	790	100.0%	148	100.0%	121	100.0%	77	100.0%	67	100.0%	59	100.0%	58	100.0%
Median		7.50%		7.50%		7.50%		7.50%		7.50%		7.50%		7.50%

	Carnontors		Compositors	Shee	t Metal	Insula	tors and	Ope	erating	Paint	ers and	Roof	ers and	Other or Mixed	
	Carpenters		Wo	rkers	Allied	Workers	Eng	ineers	Allie	d Trades	Allied	Workers	Trades		
Category	Count	Count % Total		% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	
8.50% or Higher	-	-	-	-	1	2.7%	-	-	-	-	-	-	-	-	
8.25%	-	-	1	2.0%	-	-	-	-	-	-	-	-	-	-	
8.00%	2	3.9%	3	5.9%	4	10.8%	1	2.9%	-	-	1	4.5%	2	7.7%	
7.75%	6	11.8%	2	3.9%	1	2.7%	4	11.8%	1	3.4%	-	-	1	3.8%	
7.50%	32	62.7%	25	49.0%	15	40.5%	20	58.8%	18	62.1%	9	40.9%	14	53.8%	
7.25%	3	5.9%	6	11.8%	2	5.4%	1	2.9%	1	3.4%	-	-	1	3.8%	
7.00%	6	11.8%	11	21.6%	9	24.3%	6	17.6%	8	27.6%	10	45.5%	7	26.9%	
6.75%	-	-	1	2.0%	2	5.4%	1	2.9%	1	3.4%	1	4.5%	-	-	
6.50%	-	-	2	3.9%	2	5.4%	1	2.9%	-	-	-	-	1	3.8%	
6.25%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6.00% or Lower	2	3.9%	-	-	1	2.7%	-	-	-	-	1	4.5%	-	-	
Not Specified	1	N/A	3	N/A	2	N/A	1	N/A	2	N/A	1	N/A		N/A	
Totals	52	100.0%	54	100.0%	39	100.0%	35	100.0%	31	100.0%	23	100.0%	26	100.0%	
Median		7.50%		7.50%		7.50%		7.50%		7.50%		7.00%		7.50%	

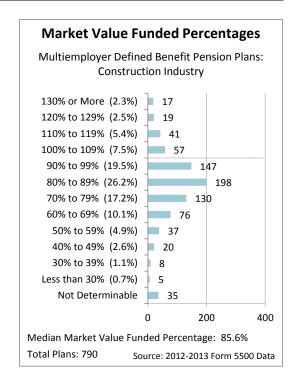


Exhibit A.09 – Market Value Funded Percentages

These exhibits (which were derived from the latest results in Exhibit 6.01) show funded percentages as of the end of the latest plan year. For most plans, the latest funded percentage is on or about December 31, 2013.

Funded percentages represent the market value of assets divided by the actuarial accrued liability. Note that there are many different ways to measure a plan's funded percentage. Also note that funded percentages can change significantly from year to year, depending on investment returns and other factors. See Section VI for more information.

As shown below, there are somewhat significant differences in the funded percentages from trade to trade. However, the differences are not as wide as they are for participant ratios (Exhibit A.05) and net cash flows (Exhibit A.06).



Market Value Funded Percentages

			Plum	Plumbers and		ctrical			Brickla	yers and			Ce	ment
	All T	rades	Pipe	Pipefitters		orkers	Lab	orers	Allie	d Crafts	Iron \	Norkers	Masons	
Category	Count	% Total	Count			% Total	Count	% Total	Count	% Total	Count	% Total	Count % Total	
130% or More	17	2.3%	2	1.4%	3	2.7%	2	2.7%		-	-	-	3	5.4%
120% to 129%	19	2.5%	3	2.1%	3	2.7%	2	2.7%	2	3.2%	2	3.6%	1	1.8%
110% to 119%	41	5.4%	10	6.9%	6	5.4%	3	4.0%	3	4.8%	1	1.8%	2	3.6%
100% to 109%	57	7.5%	11	7.6%	10	8.9%	4	5.3%	8	12.7%	5	9.1%	7	12.5%
90% to 99%	147	19.5%	34	23.6%	27	24.1%	14	18.7%	11	17.5%	1	1.8%	9	16.1%
80% to 89%	198	26.2%	36	25.0%	29	25.9%	16	21.3%	13	20.6%	22	40.0%	11	19.6%
70% to 79%	130	17.2%	28	19.4%	21	18.8%	14	18.7%	11	17.5%	10	18.2%	11	19.6%
60% to 69%	76	10.1%	9	6.3%	9	8.0%	12	16.0%	8	12.7%	7	12.7%	5	8.9%
50% to 59%	37	4.9%	9	6.3%	1	0.9%	4	5.3%	2	3.2%	2	3.6%	4	7.1%
40% to 49%	20	2.6%	2	1.4%	2	1.8%	3	4.0%	2	3.2%	4	7.3%	1	1.8%
30% to 39%	8	1.1%	-	-	1	0.9%	1	1.3%	2	3.2%	1	1.8%	-	-
Less than 30%	5	0.7%	-	-	-	-	-	-	1	1.6%	_	-	2	3.6%
Not Determinable	35	N/A	4	N/A	9	N/A	2	N/A	4	N/A	4	N/A	2	N/A
Totals	790	100.0%	148	100.0%	121	100.0%	77	100.0%	67	100.0%	59	100.0%	58	100.0%
Median		85.6%		87.8%		87.7%		83.9%		86.9%		81.4%		82.5%

			Snee	t ivietai	insuia	itors and	Ope	erating	Pain	ters and	KOO	rers and	Otner	or iviixea
	Carp	Carpenters		orkers	Allied	Workers	Eng	ineers	Allie	d Trades	Allied	Workers	Tr	ades
Category	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total
130% or More	-	-	3	5.9%	_	_	1	2.9%	1	3.4%	1	4.5%	1	3.8%
120% to 129%	2	4.0%	-	-	2	5.3%	1	2.9%	1	3.4%	-	-	-	-
110% to 119%	-	-	5	9.8%	1	2.6%	1	2.9%	1	3.4%	4	18.2%	4	15.4%
100% to 109%	1	2.0%	2	3.9%	2	5.3%	-	-	2	6.9%	2	9.1%	3	11.5%
90% to 99%	8	16.0%	14	27.5%	9	23.7%	10	29.4%	5	17.2%	1	4.5%	4	15.4%
80% to 89%	18	36.0%	10	19.6%	9	23.7%	11	32.4%	8	27.6%	9	40.9%	6	23.1%
70% to 79%	11	22.0%	3	5.9%	7	18.4%	4	11.8%	4	13.8%	2	9.1%	4	15.4%
60% to 69%	5	10.0%	5	9.8%	5	13.2%	5	14.7%	3	10.3%	2	9.1%	1	3.8%
50% to 59%	3	6.0%	5	9.8%	2	5.3%	1	2.9%	2	6.9%	1	4.5%	1	3.8%
40% to 49%	-	-	3	5.9%	-	-	-	-	1	3.4%	-	-	2	7.7%
30% to 39%	1	2.0%	1	2.0%	-	-	-	-	1	3.4%	-	-	-	-
Less than 30%	1	2.0%	-	-	1	2.6%	-	-	-	-	-	-	-	-
Not Determinable	2	N/A	3	N/A	1	N/A	1	N/A	2	N/A	1	N/A	-	N/A
Totals	52	100.0%	54	100.0%	39	100.0%	35	100.0%	31	100.0%	23	100.0%	26	100.0%
Median		81.9%		88.6%		81.5%		85.7%		84.6%		87.6%		88.8%



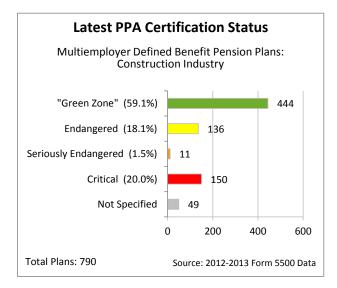
Exhibit A.10 – PPA Certification Statuses

These exhibits show the distribution of certification statuses for construction industry plans under the Pension Protection Act of 2006 (PPA), as reported by each plan's actuary on the latest Form 5500 Schedule MB, usually for the plan years ending on or about December 31, 2013.

In simplified terms:

- A plan is in critical status ("red zone") if it is projected to have a deficiency in its funding standard account in the next four years (five years if the plan is less than 65% funded or if other conditions are met).
- A plan is in endangered status ("yellow zone")
 if it is less than 80% funded or if it is projected
 to have a deficiency in its funding standard
 account in the next seven years. If both of
 those criteria are true, then the plan is in
 seriously endangered status ("orange zone").
- A plan is in neither critical status nor endangered status (i.e., it is in the "green zone") if none of the above criteria are met.

Note that the exhibit below shows the PPA certification statuses for the latest plan year, which ended on or about December 31, 2013. A plan's latest plan year may be either the 2012 plan year (for example, beginning October 1, 2012) or the 2013 plan year (for example, beginning January 1, 2013). For that reason, the results below differ from those shown in Exhibit 6.02, which shows certification statuses for the 2012 and 2013 plan years separately.



Latest PPA Certification Status

			Pluml	Plumbers and					Bricklayers and				Cement	
	All T	rades	Pipe	Pipefitters Co.		orkers	Lat	orers	Allie	d Crafts	Iron \	Norkers	Ma	asons
Category	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total
"Green Zone"	444	59.9%	88	63.3%	79	71.2%	37	51.4%	38	60.3%	29	53.7%	33	61.1%
Endangered	136	18.4%	32	23.0%	19	17.1%	17	23.6%	9	14.3%	11	20.4%	4	7.4%
Ser. Endangered	11	1.5%	-	-	-	-	6	8.3%	1	1.6%	1	1.9%	1	1.9%
Critical	150	20.2%	19	13.7%	13	11.7%	12	16.7%	15	23.8%	13	24.1%	16	29.6%
Not Specified	49	6.6%	9	6.5%	10	9.0%	5	6.9%	4	6.3%	5	9.3%	4	7.4%
Totals	790	100.0%	148	100.0%	121	100.0%	77	100.0%	67	100.0%	59	100.0%	58	100.0%
			Shee	t Metal	Insula	tors and	Оре	erating	Paint	ers and	Roof	ers and	Other	or Mixed
-	Carp	enters		t Metal orkers		tors and Workers	•	erating ineers		ers and d Trades		ers and Workers		or Mixed ades
Category	Carp Count		Wo		Allied		Eng	•	Allie		Allied		Tr	
Category "Green Zone"			Wo	orkers	Allied	Workers	Eng	ineers	Allie	d Trades	Allied	Workers	Tr	ades
	Count	% Total	Count	% Total	Allied Count	Workers % Total	Eng Count	ineers : % Total	Count	d Trades % Total	Allied Count	Workers % Total	Tr Count	ades % Total
"Green Zone"	Count 25	% Total 51.0%	Count 31	% Total 62.0%	Allied Count	Workers % Total 34.2%	Eng Count 25	ineers 73.5%	Count 16	M Trades % Total 55.2%	Allied Count 12	Workers % Total 54.5%	Tr Count 18	% Total 69.2%
"Green Zone" Endangered	Count 25	% Total 51.0%	Count 31	% Total 62.0%	Allied Count 13 12	Workers % Total 34.2% 31.6%	Eng Count 25	73.5% 5.9%	Count 16	M Trades % Total 55.2%	Allied Count 12	Workers % Total 54.5%	Tr Count 18	% Total 69.2%
"Green Zone" Endangered Ser. Endangered	Count 25 11	% Total 51.0% 22.4%	Count 31 7	% Total 62.0% 14.0%	Allied Count 13 12 1	Workers % Total 34.2% 31.6% 2.6%	Eng Count 25 2	73.5% 5.9% 2.9%	Count 16 5	## Trades ## Total 55.2% 17.2%	Allied Count 12	Workers % Total 54.5% 13.6%	Tr Count 18 4	69.2% 15.4%
"Green Zone" Endangered Ser. Endangered Critical	Count 25 11 - 13	% Total 51.0% 22.4% - 26.5%	Count 31 7 -	% Total 62.0% 14.0% - 24.0%	Allied Count 13 12 1 12	Workers % Total 34.2% 31.6% 2.6% 31.6%	Eng Count 25 2 1 6	rineers : % Total 73.5% 5.9% 2.9% 17.6%	Count 16 5 - 8	## Trades ## Total 55.2% 17.2% - 27.6%	Allied Count 12 3	Workers % Total 54.5% 13.6% - 31.8%	Tr Count 18 4 - 4	69.2% 15.4%

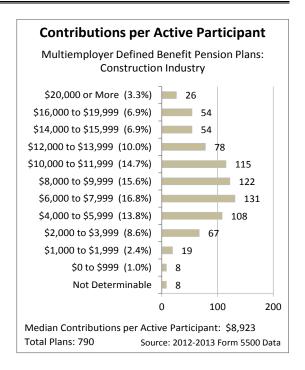


Exhibit A.11 – Contributions

These exhibits (derived from the latest results in Exhibit 7.04) show the employer contributions made during the latest plan year, per active plan participant.

Most multiemployer plans increased the employer contribution rates (often combined with reductions in participant benefit accrual rates) in order to improve funding levels following the market collapse of 2008.

Employer contributions are related to – but not directly linked to – annual plan costs. Plan costs include the cost of benefit accruals, operating expenses, and the cost of paying down any unfunded accrued liability that may exist. The following exhibits show the distribution of contributions per active participant. For most plans, these figures apply to the plan year ending on or about December 31, 2013.



Ratio: Contributions vs. Costs

	All T	rades		bers and efitters		ctrical orkers	Lak	orers		yers and d Crafts	Iron \	Workers		ment asons
Category	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total
2.50 or Greater	26	3.5%	7	4.9%	6	5.4%	3	4.0%	2	3.2%	-	-	2	3.6%
2.25 to 2.49	8	1.1%	1	0.7%	3	2.7%	2	2.7%	-	-	-	-	-	-
2.00 to 2.24	14	1.9%	1	0.7%	-	-	1	1.3%	1	1.6%	1	1.9%	1	1.8%
1.75 to 1.99	27	3.6%	8	5.6%	3	2.7%	3	4.0%	3	4.8%	-	-	3	5.5%
1.50 to 1.74	57	7.6%	15	10.4%	15	13.4%	6	8.0%	3	4.8%	1	1.9%	2	3.6%
1.25 to 1.49	77	10.3%	24	16.7%	13	11.6%	3	4.0%	4	6.3%	6	11.3%	5	9.1%
1.00 to 1.24	179	23.8%	40	27.8%	22	19.6%	25	33.3%	11	17.5%	14	26.4%	7	12.7%
0.75 to 0.99	173	23.0%	26	18.1%	33	29.5%	11	14.7%	12	19.0%	18	34.0%	17	30.9%
0.50 to 0.74	145	19.3%	20	13.9%	13	11.6%	18	24.0%	22	34.9%	11	20.8%	9	16.4%
0.25 to 0.49	22	2.9%	2	1.4%	-	-	1	1.3%	4	6.3%	1	1.9%	4	7.3%
Less than 0.25	23	3.1%	-	-	4	3.6%	2	2.7%	1	1.6%	1	1.9%	5	9.1%
Not Determinable	39	N/A	4	N/A	9	N/A	2	N/A	4	N/A	6	N/A	3	N/A
Totals	790	100.0%	148	100.0%	121	100.0%	77	100.0%	67	100.0%	59	100.0%	58	100.0%
Median		0.96		1.09		1.01		0.98		0.84		0.88		0.84

		Carpenters		t Metal	Insula	itors and	Ope	erating	Pain	ters and	Roof	fers and	Other	or Mixed
	Carp	Carpenters		orkers	Allied	Workers	Eng	ineers	Allie	d Trades	Allied	Workers	Tr	ades
Category	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count % Tota	
2.50 or Greater	-	-	2	3.9%	2	5.3%	1	2.9%	1	3.4%	-	-	-	-
2.25 to 2.49	-	-	-	-	-	-	-	-	-	-	1	4.5%	1	3.8%
2.00 to 2.24	2	4.1%	1	2.0%	2	5.3%	-	-	1	3.4%	2	9.1%	1	3.8%
1.75 to 1.99	-	-	1	2.0%	1	2.6%	1	2.9%	1	3.4%	3	13.6%	-	-
1.50 to 1.74	1	2.0%	4	7.8%	4	10.5%	3	8.8%	-	-	1	4.5%	2	7.7%
1.25 to 1.49	5	10.2%	4	7.8%	6	15.8%	2	5.9%	2	6.9%	2	9.1%	1	3.8%
1.00 to 1.24	10	20.4%	15	29.4%	11	28.9%	9	26.5%	8	27.6%	4	18.2%	3	11.5%
0.75 to 0.99	13	26.5%	7	13.7%	7	18.4%	10	29.4%	7	24.1%	6	27.3%	6	23.1%
0.50 to 0.74	14	28.6%	14	27.5%	4	10.5%	5	14.7%	6	20.7%	3	13.6%	6	23.1%
0.25 to 0.49	4	8.2%	1	2.0%	-	-	-	-	2	6.9%	-	-	3	11.5%
Less than 0.25	-	-	2	3.9%	1	2.6%	3	8.8%	1	3.4%	-	-	3	11.5%
Not Determinable	3	N/A	3	N/A	1	N/A	1	N/A	2	N/A	1	N/A		N/A
Totals	52	100.0%	54	100.0%	39	100.0%	35	100.0%	31	100.0%	23	100.0%	26	100.0%
Median		0.83		0.99		1.05		0.93		0.89		1.08		0.81



Exhibit A.12 – Contributions vs. Costs

These exhibits (derived from the latest results in Exhibit 7.05) show ratio of employer contributions to annual plan costs for the latest plan year, usually ending on or about December 31, 2013.

Annual plan costs include the cost of benefit accruals, operating expenses, and the cost of paying down the unfunded accrued liability over 15 years.

In general, if there is a contribution surplus (contributions exceed costs) the plan's funding levels are generally expected to improve over time. If there is a contribution shortfall, the plan's funding levels are generally expected to detoriorate (or improve very slowly or remain flat) over time.

Note that the results below do not reflect changes to employer contribution rates or participant benefits that were scheduled to take effect after 2013.

Ratio: Contributions vs. Costs Multiemployer Defined Benefit Pension Plans: **Construction Industry** 2.50 or Greater (3.5%) 2.25 to 2.49 (1.1%) 2.00 to 2.24 (1.9%) 1.75 to 1.99 (3.6%) 1.50 to 1.74 (7.6%) 1.25 to 1.49 (10.3%) 1.00 to 1.24 (23.8%) 0.75 to 0.99 (23.0%) 0.50 to 0.74 (19.3%) 0.25 to 0.49 (2.9%) Less than 0.25 (3.1%) Not Determinable 200 Median Contribution-Cost Ratio: 0.96 Total Plans: 790 Source: 2012-2013 Form 5500 Data

Ratio: Contributions vs. Costs

	All Tuedee		Pluml	ers and	Ele	ctrical			Brickla	yers and			Ce	ment
	All T	rades	Pipe	fitters	Wo	orkers	Lab	orers	Allie	d Crafts	Iron '	Workers	Ma	asons
Category	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total
2.50 or Greater	26	3.5%	7	4.9%	6	5.4%	3	4.0%	2	3.2%	2	3.6%	-	-
2.25 to 2.49	8	1.1%	1	0.7%	3	2.7%	2	2.7%	-	-	-	-	-	-
2.00 to 2.24	14	1.9%	1	0.7%	-	-	1	1.3%	1	1.6%	1	1.8%	1	1.9%
1.75 to 1.99	27	3.6%	8	5.6%	3	2.7%	3	4.0%	3	4.8%	3	5.5%	-	-
1.50 to 1.74	57	7.6%	15	10.4%	15	13.4%	6	8.0%	3	4.8%	2	3.6%	1	1.9%
1.25 to 1.49	77	10.3%	24	16.7%	13	11.6%	3	4.0%	4	6.3%	5	9.1%	6	11.3%
1.00 to 1.24	179	23.8%	40	27.8%	22	19.6%	25	33.3%	11	17.5%	7	12.7%	14	26.4%
0.75 to 0.99	173	23.0%	26	18.1%	33	29.5%	11	14.7%	12	19.0%	17	30.9%	18	34.0%
0.50 to 0.74	145	19.3%	20	13.9%	13	11.6%	18	24.0%	22	34.9%	9	16.4%	11	20.8%
0.25 to 0.49	22	2.9%	2	1.4%	-	-	1	1.3%	4	6.3%	4	7.3%	1	1.9%
Less than 0.25	23	3.1%	-	-	4	3.6%	2	2.7%	1	1.6%	5	9.1%	1	1.9%
Not Determinable	39	N/A	4	N/A	9	N/A	2	N/A	4	N/A	3	N/A	6	N/A
Totals	790	100.0%	148	100.0%	121	100.0%	77	100.0%	67	100.0%	58	100.0%	59	100.0%
Median		0.96		1.09		1.01		0.98		0.84		0.84		0.88

		Carpontors		t Metal	Insula	itors and	Ope	erating	Pain	ters and	Roof	fers and	Other	or Mixed
	Carp	Carpenters		orkers	Allied	Workers	Eng	ineers	Allie	d Trades	Allied	Workers	Tr	ades
Category	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total
2.50 or Greater	-	-	2	3.9%	2	5.3%	1	3.4%	-	-	1	2.9%	-	-
2.25 to 2.49	-	-	-	-	-	-	-	-	1	4.5%	-	-	1	3.8%
2.00 to 2.24	2	4.1%	1	2.0%	2	5.3%	1	3.4%	2	9.1%	-	-	1	3.8%
1.75 to 1.99	-	-	1	2.0%	1	2.6%	1	3.4%	3	13.6%	1	2.9%	-	-
1.50 to 1.74	1	2.0%	4	7.8%	4	10.5%	-	-	1	4.5%	3	8.8%	2	7.7%
1.25 to 1.49	5	10.2%	4	7.8%	6	15.8%	2	6.9%	2	9.1%	2	5.9%	1	3.8%
1.00 to 1.24	10	20.4%	15	29.4%	11	28.9%	8	27.6%	4	18.2%	9	26.5%	3	11.5%
0.75 to 0.99	13	26.5%	7	13.7%	7	18.4%	7	24.1%	6	27.3%	10	29.4%	6	23.1%
0.50 to 0.74	14	28.6%	14	27.5%	4	10.5%	6	20.7%	3	13.6%	5	14.7%	6	23.1%
0.25 to 0.49	4	8.2%	1	2.0%	-	-	2	6.9%	-	-	-	-	3	11.5%
Less than 0.25	-	-	2	3.9%	1	2.6%	1	3.4%	-	-	3	8.8%	3	11.5%
Not Determinable	3	N/A	3	N/A	1	N/A	2	N/A	1	N/A	1	N/A		N/A
Totals	52	100.0%	54	100.0%	39	100.0%	31	100.0%	23	100.0%	35	100.0%	26	100.0%
Median		0.83		0.99		1.05		0.89		1.08		0.93		0.81



Appendix B provides many of the same exhibits shown in the main body of the report, but only for the 148 plans in the construction industry covering members of the United Association of Journeymen and Apprentices of the Plumbing and Pipefitting Industry. This includes the air conditioning, sprinkler, and refrigeration trades.

The exhibits include a "UA" label indicating that they apply to Plumbers and Pipefitters plans only. The exhibit numbers correspond to the numbers in the main body of the report. Please refer to the main body of the report for additional descriptions and commentary regarding the results and exhibits.

Plans in the Inventory

The exhibits on this page show distributions of construction industry plans covering Plumbers and Pipefitters by asset value (Exhibit 2.01-UA), number of participants (Exhibit 2.02-UA) and number of participating employers (Exhibit 2.03-UA).

Asset values are the market values of assets as of the end of the latest plan year, usually on or around December 31, 2013.

The number of covered participants and number of participating employers are reported by the plan administrator on the Form 5500. Counts are as of the end of the latest plan year.

Exhibit 2.01-UA

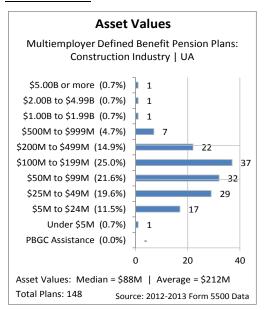


Exhibit 2.02-UA

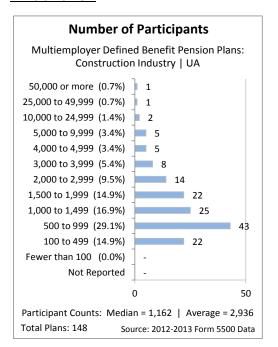
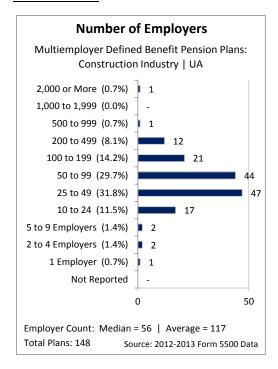


Exhibit 2.03-UA





Plan Demographics

Exhibit 3.01-UA below shows the median participant counts for Plumbers and Pipefitters plans in the construction industry over the ten-year period from 2004 through 2013. Participant counts are those reported on the Form 5500 and are as of the end of the plan year.

Exhibit 3.02-UA below shows the ratio of active participants to inactive participants. In general, the higher the ratio of active participants to inactive participants, the easier it is for a plan to correct any funding shortfall by increasing contribution rates or decreasing future benefit accruals. On the other hand, a lower ratio usually means that it is more difficult for a plan to improve funding through these means.

As with plans in the construction industry in general, demographics for plans covering Plumbers and Pipefitters have steadily worsened over the past decade. However, changes in demographics for Plumbers and Pipefitters plans were somewhat more favorable (less unfavorable) than for all plans in the construction industry.

For example, as shown in Exhibit 3.02-UA, the median participant ratio for Plumbers and Pipefitters plans decreased from 1.05 at the end of 2004 to 0.81 at the end of 2013.

While this indeed represents a demographic shift, the decline wasn't as great as it was for construction industry plans in general, from 1.03 to 0.68 over the same period.

Exhibit 3.01-UA

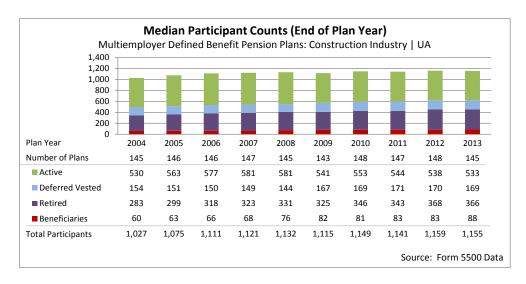
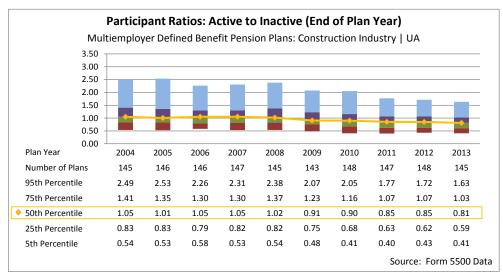


Exhibit 3.02-UA





Plan Cash Flows

Exhibit 4.01-UA below shows median cash flows for Plumbers and Pipefitters plans in the construction industry over the ten-year period from 2004 through 2013. Employer contributions represent the sole source of "cash in." Plan disbursements, or "cash out," include participant benefit payments and operating expenses.

If contributions to the plan exceed benefit payments and operating expenses, then the plan has a positive cash flow. On the other hand, if contributions to the plan do not cover benefit payments and operating expenses, then the plan has a negative cash flow. As plans mature, their cash flows tend to become increasingly negative.

Exhibit 4.02-UA below shows net cash flows from 2004 through 2013, expressed as a percentage of plan assets. For a plan with a negative cash flow, this percentage represents the return on investments that is needed to keep the plan's asset value from declining. For example, a plan with a negative cash flow of 3.0% of assets must have an investment return of at least 3.0% in order to avoid a decline in its asset value.

As with plan demographics, the trend over the last ten years for net cash flows for Plumbers and Pipefitters plans has been more favorable than for construction industry plans in general. For example, the median net cash flow for Plumbers and Pipefitters plans actually improved from -2.9% to -2.3% over that period, compared to a decrease from -2.9% to -3.0% for all construction industry plans.

Exhibit 4.01-UA

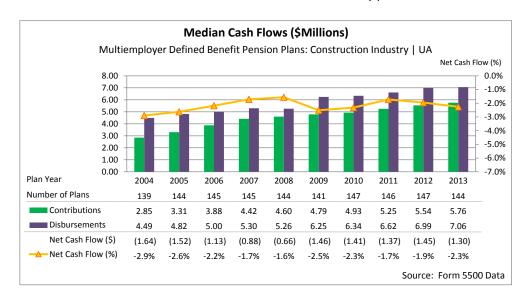
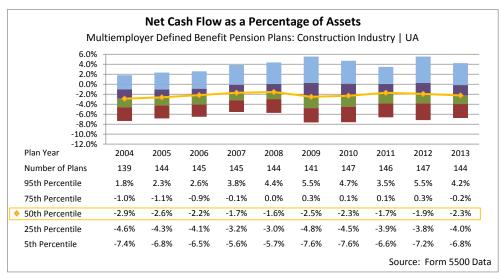


Exhibit 4.02-UA





Plan Investments

Exhibit 5.01-UA below shows net investment returns from 2004 through 2013 for Plumbers and Pipefitters plans. For consistency of timing, only the plans with calendar plan years were included.

Exhibit 5.02-UA below shows that the annualized net investment return from 2004 through 2013 for Plumbers and Pipefitters plans was 5.78%. For comparison, the median annualized return over that period was 5.88% for all construction industry plans.

Exhibit 5.03-UA below shows investment return assumptions for Plumbers and Pipefitters plans, as reported by the plan actuaries on the latest Form 5500 Schedules MB.

When comparing actual investment returns (and investment return assumptions) between Plumbers and Pipefitters plans and plans in the construction industry in general, differences are relatively small. It is important to keep in mind certain limitations when reviewing these results. See Section V for more information.

Exhibit 5.01-UA

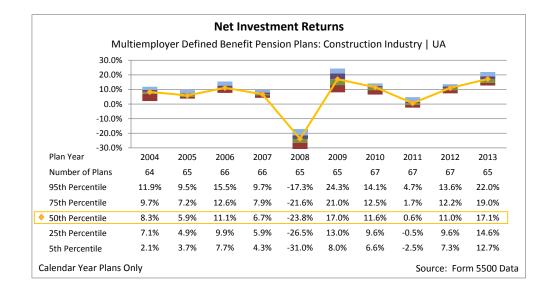


Exhibit 5.02-UA

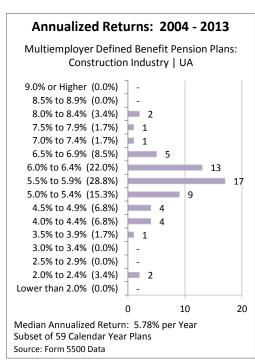
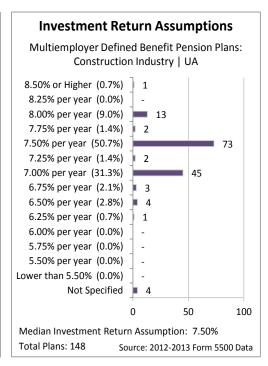


Exhibit 5.03-UA





Plan Funding

Exhibit 6.01-UA below shows funded percentages for Plumbers and Pipefitters plans in the construction industry for the ten-year period from 2004 through 2013. For consistency in timing, only the plans with calendar plan years were included.

The funded percentages below represent the ratio of the market value of assets over the actuarial accrued liability. Using the market value of assets provides the funded percentage at a point in time, without smoothing prior asset gains and losses. This provides a consistent comparison from plan to plan. (Note, however, that it is appropriate to use the smoothed, actuarial value of assets for purposes of making funding decisions and calculating contribution requirements under PPA.)

The funded percentages shown below are measured as of the end of the plan year, and the results include only plans with calendar year plan years. For example, funded percentages for 2013 are as of December 31, 2013.

As shown in Exhibit 6.01-UA below, the median funded percentage for Plumbers and Pipefitters plans increased from 79.6% as of December 31, 2004 to 88.4% as of December 31, 2013. The increase in funded percentage for Plumbers and Pipefitters plans was greater than the increase in funded percentage for construction industry plans in general, from 81.8% to 86.9% over the same period.

Exhibit 6.02-UA below shows the distribution of certification statuses under the Pension Protection Act of 2006 (PPA) for Plumbers and Pipefitters plans for the 2009 through 2013 plan years.

The distributions of certification statuses are very similar to those for all construction industry plans, in general. For a description of the tests used in certifying the status for a multiemployer plan under PPA, see Section VI of the report.

Exhibit 6.02-UA

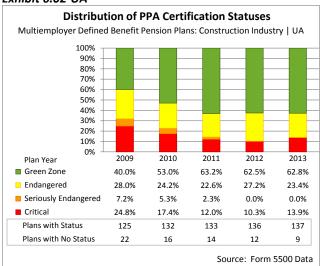
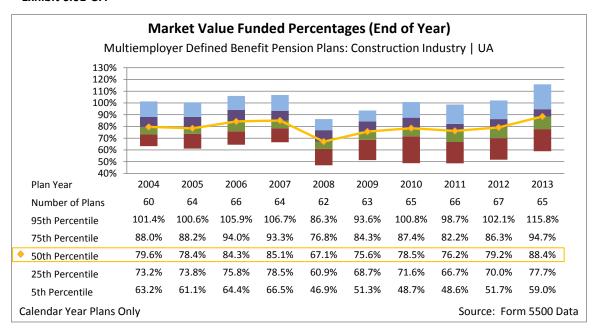


Exhibit 6.01-UA





Plan Costs and Contributions

As described in more detail in Section VII, there are three components to annual plan costs: (1) the cost of benefit accruals, (2) operating expenses, and (3) the cost of paying down the unfunded accrued liability over a period of time.

Exhibit 7.01-UA below shows the first component – the cost of benefit accruals – for Plumbers and Pipefitters plans for the ten-year period from 2004 through 2013. The costs of accruals (also known as the "normal cost") are shown on a per active participant basis.

As shown below, normal costs for Plumbers and Pipefitters plans increased over the decade, likely

due in large part to aging of the participant population. However, there were decreases from 2009 through 2011, and again from 2012 to 2013. These declines were likely due to reductions in the rate of benefit accruals.

The second component of plan costs is operating expenses. Later in this section, Exhibit 8.03-UA shows operating expenses per participant over the past decade for Plumbers and Pipefitters plans. (That is why there is no Exhibit 7.02-UA.)

Exhibit 7.03-UA below shows the cost, per active participant, of paying down the unfunded accrued liability over a period of time. The figures below are based on the difference between the actuarial accrued liability and the market value of assets over a period of fifteen years. See Section VII for additional descriptions and commentary.

Exhibit 7.01-UA

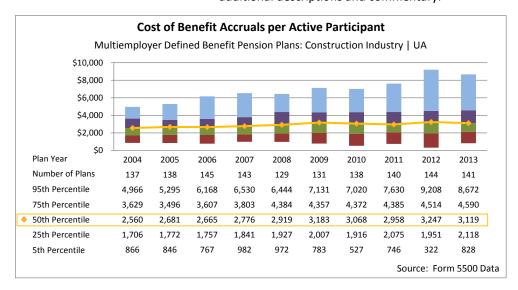
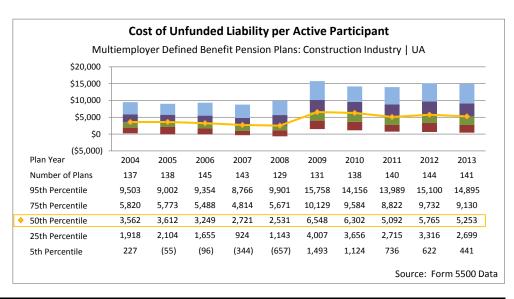


Exhibit 7.03-UA





Plan Costs and Contributions (cont.)

Exhibit 7.04-UA below shows how contributions for Plumbers and Pipefitters plans, per active participant, have changed over the past decade.

As shown below, in nearly every year, contributions have increased over the prior year. Increases in the early part of the decade were modest. However, contributions increased more significantly in the following years. This was likely a result of increases in contributions to correct the funding shortfalls brought on by the investment losses of 2001 and 2002, and again in 2008 and early 2009.

As described earlier, to the extent that employer contributions exceed the plan's annual costs, the plan's funding levels are generally expected improve

over time. If employer contributions do not cover annual costs, then the plan's funding levels are generally expected to deteriorate (or perhaps improve very slowly or remain flat) over time.

Exhibit 7.05-UA shows the ratio of employer contributions to annual plan costs for Plumbers and Pipefitters plans, from 2004 through 2013. Ratios greater than 1.00 indicate contributions exceed costs; ratios less than 1.00 indicate costs exceed contributions.

As shown below, the median ratio of contributions to costs was less than 1.00 in 2009 and 2010, following the investment losses of 2008. The median ratio of contributions to costs rose above 1.00 for 2011, following investment gains in 2009 and 2010, and remained above 1.00 through 2013.

Exhibit 7.04-UA

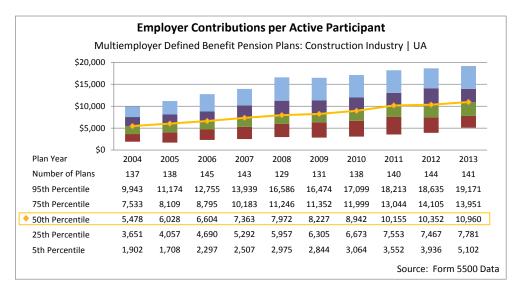
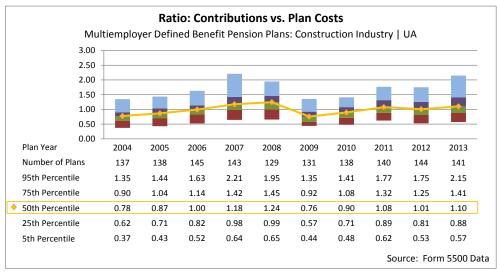


Exhibit 7.05-UA





The remainder of Appendix B takes a closer look at investment fees and operating expenses for Plumbers and Pipefitters plans in the construction industry. The intent of this section is to provide plan trustees with a sense of how their plans' fees and expenses compare to other Plumbers and Pipefitters plans in the construction industry.

Investment Fees

The majority of investment fees are paid to investment managers, usually as a percentage of assets. In general, more active or complicated investment strategies will have higher manager fees; passive or indexed strategies will have lower fees.

In most cases, investment fees will also include fees paid to consultants who advise plan trustees on investment decisions, as opposed to actually investing the money. Sometimes the Form 5500 preparer will classify investment consultant fees as professional fees, in which case they will count as operating expenses for purposes of this analysis.

Exhibit 8.01-UA below shows historical investment fees, as a percent of plan assets, over the last decade for all construction industry plans covering Plumbers and Pipefitters. With a few exceptions, investment fees have remained relatively level over the last ten years.

Exhibit 8.02-UA shows a snapshot distribution of investment fees during the latest plan year. The average fees were 46 basis points ("bps"), in other words, about 0.46% of plan assets.

Exhibit 8.02-UA

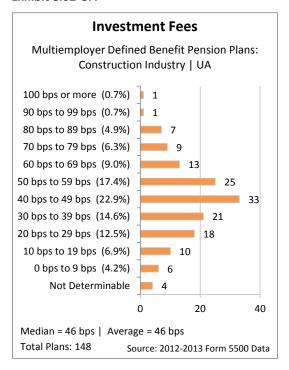
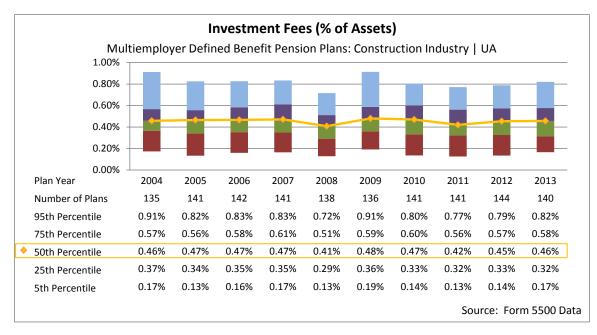


Exhibit 8.01-UA





Appendix B: Plumbers and Pipefitters Plans

Per-Participant Operating Expenses

Operating expenses include the cost of administering the plan, fees paid to professionals (such as attorneys, auditors, actuaries, and consultants), and insurance and PBGC premiums. They exclude investment fees.

As discussed in Section VII, it is more appropriate to express operating expenses on the basis of total participants rather than active participants only, because there are administrative costs associated with both active and inactive or retired participants.

Exhibit 8.03-UA below shows operating expenses over the last ten years for Plumbers and Pipefitters plans in the construction industry, on the basis of total participants.

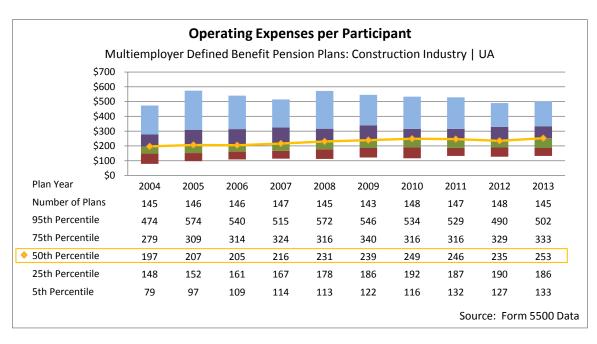
When expressed as a per participant cost, operating expenses have increased, with some fluctuations, over the period from 2004 through 2013. Median operating expenses per participant increased from \$197 to \$253 over that period — a total increase of 28.4%, or 2.8% per year on average.

Exhibit 8.04-UA shows the snapshot distribution of operating expenses per participant, based on the latest Form 5500 filings for all 148 Plumbers and Pipefitters plans in the inventory. Exhibit 8.05-UA (later in this section) shows operating expenses on the basis of total dollars paid.

Exhibit 8.04-UA



Exhibit 8.03-UA





Appendix B: Plumbers and Pipefitters Plans

Total Operating Expenses

In addition to reviewing operating expenses on a per participant basis, it may be useful for plan trustees to review operating expenses in total.

Exhibit 8.05-UA shows operating expenses in total for Plumbers and Pipefitters plans in the construction industry.

As an additional reference, Exhibit 8.06-UA and Exhibit 8.07-UA, respectively, show total operating expenses split by administrative and other expenses and professionals fees.

Administrative and other expenses include the cost of salaries for fund employees or third party administrator fees, PBGC and insurance premiums, and general administrative costs. Professionals' fees are the total fees paid to attorneys, auditors, actuaries, and consultants.

Exhibit 8.05-UA

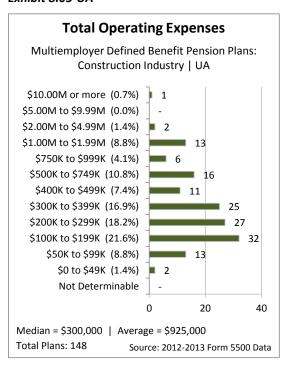


Exhibit 8.06-UA

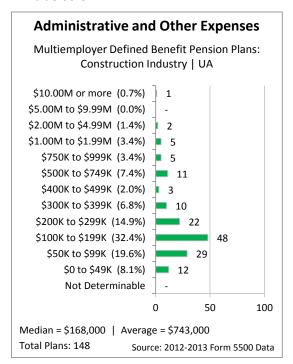
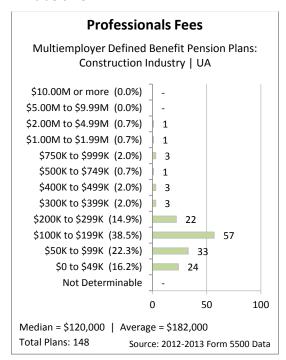


Exhibit 8.07-UA





Appendix C provides two summary exhibits for the 790 multiemployer defined benefit pension plans in the construction industry. Exhibit C.01 shows the distribution of latest results and key historical results from 2004 through 2013, drawing from the results in the main report. Exhibit C.02 shows the number of plans by state and latest certification status under the Pension Protection Act of 2006 (PPA).

While this report focuses on plans in the construction industry, included for additional reference are two summary exhibits showing the same key statistics for all 1,349 multiemployer defined benefit pension plans in the U.S., including those outside of the construction industry. See Exhibits C.O3 and C.O4.

Considerations when reviewing exhibits in Appendix C:

Number of Plans

Based on the latest available Form 5500 data, in most cases, for plan years ending on or about December 31, 2013, there are 790 multiemployer defined benefit pension plans in the construction industry. There are 1,349 plans in total, across all industries.

According to the PBGC, there are over 1,400 insured multiemployer pension plans in the United States, across all industries. Exhibits C.03 and C.04 show 1,349 plans, and they include only those plans that filed a Form 5500 for the plan year ending on or about December 31, 2013, indicated that they were multiemployer defined benefit plans, and are not receiving financial assistance from the PBGC. The PBGC's list may include some plans that have since been merged together, and it may also include some plans that are technically defined contribution plans. Further, the total of 1,349 multiemployer plans may exclude some plans that for one reason or another do not have a recent Form 5500 filing.

Plan Location

In Exhibits C.02 and C.04, plans are listed by state. Note that the location shown is often for the administrator or other party that filed the Form 5500, and not necessarily for the plan itself.

For example, the Worcester Plumbers & Pipefitters Union Local No. 4 Pension Plan mainly covers participants in Massachusetts, but it is listed under Connecticut (CT), where its administrator is located. Similarly, the Plumbers and Pipefitters National Pension Fund – which covers participants across the

nation – is listed under Virginia (VA), where its fund office is located.

PPA Certification Statuses

In simplified terms, a plan is in critical status ("red zone") if it is projected to have a deficiency in its funding standard account in the next four years (five years if the plan is less than 65% funded or if other conditions are met). A plan is in endangered status ("yellow zone") if it is less than 80% funded or if it is projected to have a deficiency in its funding standard account in the next seven years. If both of those criteria are true, then the plan is in seriously endangered status ("orange zone"). A plan is in neither critical status nor endangered status (i.e., it is in the "green zone") if none of the criteria are met.

For simplicity, Exhibits C.02 and C.04 include plans that are in seriously endangered status with those that are in endangered status. In addition, plans that did not specify a certification status are included with the plans in the "green zone."

Critical and Declining Status Plans

Under the Multiemployer Pension Reform Act of 2014 (MPRA), a plan is considered to be in critical and declining status if it is in critical status and is projected to go insolvent in the next 15 or 20 years. Critical and declining status first applies to certifications performed after the passage of MPRA (on or after December 16, 2014). As a result, we do not yet have a complete understanding of which plans will be certified in critical and declining status.

As shown in Exhibit 6.04 earlier in this report, we estimate that about 37 plans in the construction industry, and about 114 plans across all industries, have very negative net cash flows and are therefore likely to be certified in critical and declining status in the near future. We will monitor the number of plans certified to be in critical and declining status as more information becomes available.

Key Results May Not Add

When reviewing Exhibits C.01 and C.03, please note that the results in each row are determined independently and cannot be added to obtain the totals shown. For example, the counts for different types of participants were determined separately from (and therefore will not add to) the counts for total participants. Further, the costs and contribution components were determined separately from (and will therefore not add to) the results for contributions vs. costs.



Exhibit C.01 - Multiemployer Defined Benefit Pension Plans: CONSTRUCTION INDUSTRY ONLY

Multiemployer Defined Benefit Pension Plans Summary of Form 5500 Data Industry: Construction Total Number of Plans: 790 372 Calendar Year Plans: **Distribution of Latest Results** This section shows the distribution of the latest Form 5500 results for 790 multiemployer defined benefit plans in the construction industry. In general, these results are for plan years ending on or ground December 31, 2013. Results are shown at every 10th percentile, as well as at the 5th and 95th percentiles. For example, the median (50th percentile) plan is 86% funded on a market value of assets basis. The 5th percentile plan is 52% funded, and the 95th percentile plan is 118% funded. Note that most results below include all applicable plans, regardless of plan year. Therefore, they will differ from those in the report that focus on calendar year plans. 10th 20th 30th 40th 60th 70th 80th 90th 95th **Participant and Employer Counts** Counts as of End of Plan Year Active Participants 61 99 174 493 980 1,542 3,370 7,017 249 362 665 Deferred Vested Participants 25 43 122 163 229 324 458 754 4.361 81 1.769 **Retired Participants** 54 86 146 202 279 375 536 762 1,264 2,577 5,352 Beneficiaries 0 5 123 285 1.235 **Total Participants** 200 307 485 683 898 1.264 1.645 2.424 3.863 8.691 17.655 Participant Ratio: Active to Inactive 0.21 0.33 0.44 0.52 0.59 0.68 0.77 0.86 0.98 1.26 1.48 9 15 25 35 47 65 91 434 **Employer Count** 128 212 Funding and Investment Results Total Results as of the Latest Plan Year Market Value of Assets (\$ Million) 8.3 \$ 14.0 \$ 24.0 \$ 37.5 \$ 52.2 \$ 80.0 \$ 117.2 \$ 169.5 \$ 283.7 \$ 650.1 \$ 1,249.2 Market Value Funded Percentage 52% 61% 71% 77% 81% 86% 89% 94% 99% 110% 118% -7.3% -3.8% -3.0% -2.3% -1.5% Net Cash Flow: % of Assets -10.0% -5.8% -4.8% -0.3% 1.4% 3.2% Annualized Return: 2004 - 2013* 4.7% 5.4% 5.9% 6.0% 6.2% 6.9% 7.3% 4.5% 5.1% 5.6% 6.5% * Calendar year plan years only **Costs and Contributions** Per Active Participant, for Latest Plan Year Cost of Benefit Accruals 413 S 828 \$ 1,343 \$ 1,696 \$ 2,071 \$ 2,537 \$ 2,890 \$ 3,439 \$ 4,200 \$ 5,267 \$ 7,176 **Operating Expenses** \$ 238 \$ 288 Ś 363 Ś 446 \$ 523 \$ 600 \$ 704 Ś 861 \$ 1,053 \$ 1,450 \$ 2,226 Cost of Unfunded Liability (344) \$ 591 \$ 2,151 \$ 3,047 \$ 4,105 \$ 5,330 \$ 6,667 \$ 7,852 \$ 10.142 \$ 13.660 \$ 17.200 **Employer Contributions** 2,534 \$ 3,620 \$ 5,242 \$ 6,474 \$ 7,625 \$ 8,923 \$ 10,226 \$ 11,617 \$ 13,186 \$ 16,062 \$ 18,196 Ratio: Contributions to Costs 0.42 0.53 0.69 0.79 0.87 0.96 1.06 1.20 **Historical Results** This section shows historical Form 5500 results from 2004 through 2013 for multiemployer defined benefit plans in the construction industry. For consistency and comparability, certain results (denoted by an asterisk) are for the 372 construction industry plans with calendar year plan years. This section also shows the distributions of PPA certification statuses for plan years beginning in 2009 through 2013. For example, for plan years beginning in 2013, about 59.8% of plans were in the green zone, and about 40.2% were in endangered, seriously endangered or critical status. 2005 Plan Year Beginning 2004 2006 2007 2008 2009 2010 2011 2012 2013 Total Plan Statistics (Median Results) Participant Ratio: Active to Inactive 1.03 0.99 0.99 0.97 0.94 0.83 0.74 0.73 0.69 0.68 Net Cash Flow: % of Assets* -2.9% -2.7% -2.5% -2.0% -2.0% -3.5% -2.9% -3.0% Net Investment Return* 8.6% 5.8% 11.1% 6.8% -23.4% 15.9% 11.5% 0.5% 11.1% 16.5% Market Value Funded Percentage* 81.8% 81.5% 85.0% 86.2% 68.1% 74.6% 78.8% 74.2% 78.4% 86.9% Calendar year plan years only Costs and Contributions (Median Results)

Employer Contributions 4.546 \$ 5,033 \$ 5,640 \$ 6,069 \$ 6,429 \$ 6,507 \$ 7,186 \$ 8,090 8.434 \$ 8.964 Ratio: Contributions to Costs 0.64 **PPA Certification Status** Plan Year Beginning N/A N/A N/A N/A N/A N/A N/A 63.0% 59.6% 59.8% Percentage in "Green Zone" Percentage in Endangered Status N/A N/A N/A N/A N/A N/A N/A 19.3% 20.9% 18.5% Percentage in Seriously Endangered Status N/A N/A N/A N/A N/A N/A 1.3% 1.6% 1.5% Percentage in Critical Status N/A N/A N/A N/A N/A N/A N/A 16.4% 17.9% 20.2%

2,200 \$ 2,257 \$ 2,382 \$ 2,557

\$ 2,493

432 \$ 461 \$ 527 \$ 556

\$ 2,186

\$ 6,090 \$ 5,626 \$ 4,897

\$ 1,877

2,234 \$

\$ 2,683 \$

384 Ś

2,201

402 \$ 425

2,632

The results in each row are determined independently and cannot be added to obtain the totals shown. For example, the counts for different types of participants were determined separately from (and therefore will not add to) the counts for total participants. Further, the costs and contribution components were determined separately from the ratios of contributions to costs.



5,939

\$

5,333

\$

2,392

Per Active Participant, Per Year
Cost of Benefit Accruals

Cost of Unfunded Liability

Operating Expenses

Exhibit C.02 - Multiemployer Defined Benefit Pension Plans: CONSTRUCTION INDUSTRY ONLY

			Critical Sta	tus	En	dangered	Status		"Green Zo	ne"		All Plan	s
Chata Nama	Postal	Number	Assets	Covered	Number	Assets	Covered	Number	Assets	Covered	Number	Assets	Covered
State Name	Code	of Plans	(\$Million)	Participants	of Plans	(\$Million)	Participants	of Plans	(\$Million)	Participants	of Plans	(\$Million)	Participant
Alabama	AL	3	74.7	1,567	-	-	-	5	189.7	4,666	8	264.5	6,23
Alaska	AK	1	61.3	804	-	-	-	2	1,871.3	10,462	3	1,932.6	11,26
Arizona	ΑZ	-	-	-	1	92.6	2,340	9	617.3	18,573	10	709.9	20,91
Arkansas	AR	1	3.5	108	-	-	-	-	-	-	1	3.5	10
California	CA	13	10,727.8	153,037	10	5,622.6	82,918	39	13,312.0	183,945	62	29,662.4	419,90
Colorado	co	3	158.5	4,268	-	-	-	4	1,244.4	20,794	7	1,402.9	25,06
Connecticut	CT	7	431.7	8,371	2	85.0	1,696	10	1,512.3	22,947	19	2,029.1	33,01
Delaware	DE	-	-	-	3	136.4	2,989	4	198.9	2,873	7	335.3	5,86
District of Columbia	DC	1	1,021.2	60,699	2	1,540.1	77,752	7	16,584.7	254,310	10	19,146.0	392,76
Florida	FL	-	-	-	1	37.7	1,486	13	773.7	13,135	14	811.4	14,62
Georgia	GA	1	20.8	636				4	471.1	7,075	5	491.9	7,71
Hawaii	HI	-	20.0	-	-	-	-	10	1,421.2	16,827	10	1,421.2	16,82
Idaho	ID	-	-		-	-	-	10	93.6	1,694	10	93.6	1,69
Illinois	IL	4	1,302.3	19,723	8	7,066.6	71,019	44	14,432.3	160,157	56	22,801.2	250,89
Indiana	IN	4	534.0	8,785	4	1,351.4	29,430	12	2,217.2	33,271	20	4,102.6	71,48
				-,									
lowa	IA	-		-	2	177.3	1,961	2	57.4	869	4	234.8	2,83
Kansas	KS	2	215.6	8,684	1	7,612.1	92,011	5	1,045.8	19,480	8	8,873.5	120,17
Kentucky	KY	-			3	135.8	2,156	2	131.2	3,297	5	267.0	5,45
Louisiana	LA ME	7	468.2	11,800	1	38.9	650	3 -	201.7	5,903	11	708.8	18,35
Maine	IVIE	-	-	-	-	-	-	-	-	-	-	-	
Maryland	MD	9	4,073.8	46,415	5	3,722.7	87,827	26	15,167.2	567,647	40	22,963.8	701,88
Massachusetts	MA	3	51.1	1,326	4	3,207.2	43,361	10	4,463.2	49,012	17	7,721.5	93,69
Michigan	MI	12	5,571.6	86,179	10	1,165.9	14,860	24	3,962.5	73,094	46	10,700.1	174,13
Minnesota	MN	-	-	-	4	1,831.7	23,507	14	5,337.8	77,161	18	7,169.5	100,66
Mississippi	MS	-	-	-	-	-	-	-	-	-	-	-	
Missouri	MO	3	120.4	2,487	3	955.6	10,218	22	6,632.0	74,668	28	7,708.0	87,37
Montana	MT	-	-	-	-	-	-	-	-	-	-	-	
Nebraska	NE	-	-	-	1	117.5	2,762	5	531.8	8,923	6	649.3	11,68
Nevada	NV	-	-	-	1	383.6	7,375	3	676.8	9,127	4	1,060.4	16,50
New Hampshire	NH	-	-	-	-	-	-	1	38.7	544	1	38.7	54
New Jersey	NJ	3	697.3	9,714	12	3,270.3	48,298	14	2,133.6	27,907	29	6,101.1	85,91
New Mexico	NM	1	8.5	374	-	-	-	1	43.0	3,581	2	51.5	3,95
New York	NY	17	651.6	16,945	22	1,836.0	32,155	66	14,736.9	192,979	105	17,224.4	242,07
North Carolina	NC	-	-	-	-	-	-	-	-	-	-	-	
North Dakota	ND	-	-	-	-	-	-	-	-	-	-	-	
Ohio	ОН	24	1,667.5	30,126	10	1,432.7	17,897	28	5,858.3	61,180	62	8,958.5	109,20
Oklahoma	OK		-	50,125	-	-, 102.7		4	1,084.9	18,641	4	1,084.9	18,64
Oregon	OR	4	196.1	4,681	1	72.1	1,190	10	3,699.2	45,229	15	3,967.4	51,10
Pennsylvania	PA	11	1,545.0	27,847	16	4,513.5	64,434	28	12,963.9	200,750	55	19,022.3	293,03
Puerto Rico	PR	-	-,3 .3.3		-	-,525.5		-	,505.5		-		255,00
Phodo Island	Di	1	104 7	1 470	2	202.6	2.450	2	257.0	2 500	7	ECE 3	0.4
Rhode Island	RI	1	104.7	1,479	3	202.6	3,450	3	257.9	3,508	,	565.2	8,43
South Carolina	SC	-	-	-	-	-	-	-	-	-	-	-	
South Dakota Tennessee	SD TN	- 1	162 7	4.064	4	105.2	2 121	- 15	1,076.9	24 207	- 20	1 245 0	30,59
Tennessee	TX	1 2	163.7 3.6	4,064 379	4	105.3	2,131	15 13	2,321.7	24,397 65,031	20 15	1,345.9 2,325.3	
IEAdS		2	3.0	2/3	-	-	-	13	2,321./	03,031			65,41
Utah	UT	-	-	-	-	-	-	3	298.6	4,783	3	298.6	4,78
Vermont	VT	-	-	-	-	-	-	1	24.4	417	1	24.4	41
Virginia	VA	3	3,899.4	136,886	1	5,603.6	151,703	4	78.3	2,122	8	9,581.3	290,7
Washington	WA	1	24.6	914	3	1,187.9	20,228	14	7,121.0	90,573	18	8,333.5	111,71
West Virginia	WV	3	254.6	3,832	3	163.4	2,721	3	602.3	11,561	9	1,020.3	18,11
Wisconsin	WI	3	189.5	3,995	6	3,512.4	54,578	5	624.3	8,236	14	4,326.2	66,80
Wyoming	WY	2	30.1	1,471	-	-	-	-	-	-	2	30.1	1,4
TOTAL		150	34,272.7	657,596	147	57,180.6	955,103	493	146,111.3	2,401,349	790	237,564.7	4,014,0

Results are based on Form 5500 data for plan years ending on or about December 31, 2013.

Plans are grouped by the states listed for the plan's address on the Form 5500. Often, the plan's address is the address of the plan administrator. Many plans are regional or national. Plans in seriously endangered status are included above with plans in endangered status. Plans that did not specify a status are assumed to be in the "green zone."



Exhibit C.03 – Multiemployer Defined Benefit Pension Plans: ALL PLANS IN ALL INDUSTRIES

Multiemployer Defined Benefit Pension Plans

Summary of Form 5500 Data

 Industry:
 ALL INDUSTRIES
 Total Number of Plans:
 1,349

 Calendar Year Plans:
 705

Distribution of Latest Results

This section shows the distribution of the latest Form 5500 results for 1,349 multiemployer defined benefit plans (all industries). In general, these Form 5500 results are for plan years ending on or around December 31, 2013. Results are shown at every 10th percentile, as well as at the 5th and 95th percentiles. For example, the median (50th percentile) plan is 85% funded on a market value of assets basis. The 5th percentile plan is 50% funded, and the 95th percentile plan is 120% funded. Note that most results below include all applicable plans, regardless of plan year. Therefore, they will differ from those in the report that focus on calendar year plans.

Percentile	5th	10th	20th	30th	40th	50th	60th	70th	80th	90th	95th
Participant and Employer Counts											
Counts as of End of Plan Year											
Active Participants	1	42	133	216	333	496	708	1,069	1,949	5,104	9,910
Deferred Vested Participants	21	44	91	140	209	316	455	705	1,270	3,511	6,721
Retired Participants	43	79	148	216	316	467	656	1,017	1,652	3,712	6,748
Beneficiaries	0	2	19	36	57	88	134	207	334	728	1,431
Total Participants	170	281	498	739	1,053	1,482	1,991	3,016	5,307	13,458	25,939
Participant Ratio: Active to Inactive	0.00	0.11	0.29	0.41	0.51	0.59	0.69	0.80	0.94	1.25	1.58
Employer Count	2	4	10	19	29	40	59	91	149	323	630
Funding and Investment Results											
Total Results as of the Latest Plan Year											
Market Value of Assets (\$ Million)	\$ 3.6	\$ 8.8	\$ 19.9	\$ 32.3	\$ 48.8	\$ 75.1	\$ 109.0	\$ 165.7	\$ 300.0	\$ 696.9	\$ 1,376.6
Market Value Funded Percentage	50%	58%	69%	75%	81%	85%	89%	94%	100%	111%	120%
Net Cash Flow: % of Assets	-15.0%	-10.6%	-7.1%	-5.8%	-4.6%	-3.7%	-2.6%	-1.8%	-0.5%	1.3%	3.6%
Annualized Return: 2004 - 2013*	4.2%	4.6%	5.0%	5.3%	5.6%	5.8%	6.1%	6.3%	6.6%	6.9%	7.2%
* Calendar year plan years only											
Costs and Contributions											
Per Active Participant, for Latest Plan Year											
Cost of Benefit Accruals	\$ 208	\$ 455	\$ 891	\$ 1,275	\$ 1,696	\$ 2,087	\$ 2,613	\$ 3,135	\$ 4,070	\$ 5,383	\$ 7,433
Operating Expenses	\$ 153	\$ 234	\$ 337	\$ 423	\$ 525	\$ 620	\$ 746	\$ 943	\$ 1,253	\$ 2,065	\$ 3,810
Cost of Unfunded Liability	\$ (604)	\$ 161	\$ 1,071	\$ 2,313	\$ 3,340	\$ 4,633	\$ 6,369	\$ 8,113	\$ 10,720	\$ 15,602	\$ 23,976
Employer Contributions	\$ 995	\$ 1,744	\$ 2,989	\$ 4,654	\$ 6,277	\$ 7,603	\$ 9,175	\$ 10,885	\$ 13,016	\$ 16,647	\$ 19,995
Ratio: Contributions to Costs	0.17	0.38	0.57	0.72	0.81	0.91	1.00	1.13	1.33	1.68	2.10

Historical Results

This section shows historical Form 5500 results from 2004 through 2013 for multiemployer defined benefit plans (all industries). For consistency and comparability, certain results (denoted by an asterisk) are for the 705 plans with calendar year plan years.

This section also shows the distributions of PPA certification statuses for plan years beginning in 2009 through 2013. For example, for plan years beginning in 2013, about 56.7% of plans were in the green zone, and about 43.3% were in endangered, seriously endangered or critical status.

Plan Year Beginning	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Total Plan Statistics (Median Results)										
Participant Ratio: Active to Inactive	0.92	0.90	0.86	0.85	0.82	0.73	0.67	0.64	0.62	0.59
Net Cash Flow: % of Assets*	-3.3%	-3.2%	-3.1%	-2.6%	-2.7%	-4.4%	-4.1%	-3.6%	-3.8%	-3.7%
Net Investment Return*	8.5%	5.7%	11.0%	6.8%	-23.5%	16.3%	11.7%	0.6%	11.1%	16.3%
Market Value Funded Percentage*	84.1%	83.9%	87.4%	88.7%	67.6%	74.7%	78.7%	74.5%	77.7%	86.0%
* Calendar year plan years only										
Costs and Contributions (Median Results)										
Per Active Participant, Per Year										
Cost of Benefit Accruals	\$ 1,863	\$ 1,843	\$ 1,857	\$ 1,912	\$ 1,950	\$ 2,154	\$ 2,006	\$ 1,987	\$ 2,040	\$ 2,094
Operating Expenses	\$ 381	\$ 402	\$ 426	\$ 434	\$ 469	\$ 537	\$ 573	\$ 588	\$ 592	\$ 619
Cost of Unfunded Liability	\$ 1,992	\$ 2,024	\$ 1,853	\$ 1,428	\$ 1,737	\$ 5,651	\$ 4,922	\$ 4,244	\$ 5,286	\$ 4,633
Employer Contributions	\$ 3,792	\$ 4,126	\$ 4,566	\$ 4,915	\$ 5,396	\$ 5,520	\$ 5,959	\$ 6,734	\$ 7,244	\$ 7,596
Ratio: Contributions to Costs	0.77	0.85	0.92	1.09	1.06	0.59	0.73	0.90	0.81	0.91
PPA Certification Status										
Plan Year Beginning										
Percentage in "Green Zone"	N/A	59.2%	56.3%	56.7%						
Percentage in Endangered Status	N/A	15.3%	16.6%	15.4%						
Percentage in Seriously Endangered Status	N/A	1.5%	1.6%	1.2%						
Percentage in Critical Status	N/A	24.0%	25.6%	26.8%						

The results in each row are determined independently and cannot be added to obtain the totals shown. For example, the counts for different types of participants were determined separately from (and therefore will not add to) the counts for total participants. Further, the costs and contribution components were determined separately from the ratios of contributions to costs.



Exhibit C.04 - Multiemployer Defined Benefit Pension Plans: ALL PLANS IN ALL INDUSTRIES

			Critical Sta	tus	En	dangered	Status		"Green Zo	ne"		All Plan	S
State Name	Postal	Number of Plans	Assets	Covered	Number	Assets	Covered	Number	Assets	Covered	Number of Plans	Assets	Covered
State Name	Code	OI PIdIIS	(\$Million)	Participants	of Plans	(\$Million)	Participants	of Plans	(\$Million)	Participants	OI PIdIIS	(\$Million)	Participants
Alabama	AL	3	74.7	1,567	-	-	-	8	640.3	30,975	11	715.1	32,542
Alaska	AK	2	695.7	9,981	-			2	1,871.3	10,462	4	2,567.0	20,443
Arizona	AZ	-	-	-	1	92.6	2,340	11	1,426.2	59,909	12	1,518.8	62,249
Arkansas California	AR CA	1 30	3.5 22,863.8	108 561,509	16	9,368.4	113,712	- 75	27,580.1	494,182	1 121	3.5 59,812.3	108 1,169,403
Colorado	со	4	1,013.1	35,526	_	_		6	2,386.2	80,250	10	3,399.3	115,776
Connecticut	CT	7	431.7	8,371	2	85.0	1,696	14	2,462.3	53,619	23	2,979.1	63,686
Delaware	DE	-	-31.7	-	3	136.4	2,989	5	207.0	5,476	8	343.4	8,465
District of Columbia		4	2,426.0	184,181	4	6,008.2	191,086	14	31,358.1	564,451	22	39,792.3	939,718
Florida	FL	2	239.5	3,273	2	465.1	6,918	14	835.0	14,213	18	1,539.6	24,404
Ci-	C4	4	1.000.0	10.444					4 624 2		10	C 404.0	
Georgia	GA	4	1,869.8	18,444	2	202 5	1 257	6	4,624.3	248,493	10	6,494.0	266,937
Hawaii Idaho	HI ID	1	7.7	184	2	203.5	1,257	15 1	2,191.3 93.6	49,932 1,694	18 1	2,402.5 93.6	51,373 1,694
Illinois	IL	16	24,761.8	556,335	- 17	7,670.4	94,855	70	24,782.3	491,625	103	93.6 57,214.5	1,142,815
Indiana	IN	5	851.7	26,791	4	1,351.4	29,430	21	24,782.3	491,623	30	4,993.7	100,458
				-,									
lowa	IA	2	245.0	0.004	2 1	177.3 7.612.1	1,961	2 6	57.4	869	4 9	234.8	2,830
Kansas	KS	-	215.6	8,684		, -	92,011		1,156.5	20,133		8,984.2	120,828
Kentucky Louisiana	KY LA	8	623.3	- 15,174	3 1	135.8 38.9	2,156 650	3 3	207.2 201.7	11,291	6 12	343.0 863.9	13,447
Maine	ME	-	- 023.3	15,174	-	36.9	-	-	201.7	5,903	-	- 003.9	21,727
		10	10.350.0	220.007	7	F 402 F	102 477	44	10 200 5	C20 0F2	70	25 402 0	002 547
Maryland	MD	19 6	10,259.9	239,087	7	5,483.5	103,477	44	19,360.5	639,953	70 25	35,103.9	982,517
Massachusetts	MA		2,991.1 5,668.1	73,707	4 11	3,207.2	43,361	15 29	4,739.3	69,497	25 54	10,937.7	186,565
Minnosota	MI MN	14 3	182.1	88,217 7,880	7	1,166.6 3,336.0	14,894 66,554	29	3,993.0 6,057.8	75,063 99,652	31	10,827.7 9,576.0	178,174 174,086
Minnesota Mississippi	MS	-	102.1	7,000	-	3,330.0	- 00,334	21	32.9	99,632 426	2	32.9	426
Missouri	МО	7	305.5	13,159	7	1,382.2	22,701	32	8,549.2	117,474	46	10,236.9	153,334
Montana	MT	1	4.6	671	-	1,302.2	22,701	- 32	0,343.2	117,474	1	4.6	671
Nebraska	NE	-	4.0	-	1	117.5	2,762	5	531.8	8,923	6	649.3	11,685
Nevada	NV	_	_	_	1	383.6	7,375	5	2,738.5	108,816	6	3,122.1	116,191
New Hampshire	NH	-	-	-	-	-	-	1	38.7	544	1	38.7	544
New Jersey	NJ	29	3,407.6	105,216	20	5,685.9	87,675	40	4,267.8	83,296	89	13,361.3	276,187
New Mexico	NM	1	8.5	374		-	-	1	43.0	3,581	2	51.5	3,955
New York	NY	68	12,961.6	803,364	34	4,912.4	165,131	149	39,191.5	854,535	251	57,065.4	1,823,030
North Carolina	NC	-	-	-	1	3.3	258	1	38.8	750	2	42.0	1,008
North Dakota	ND	-	-	-	-	-	-	-	-	-	-	-	-
Ohio	ОН	31	2,095.6	43,956	11	1,440.4	18,170	50	10,518.2	143,680	92	14,054.2	205,806
Oklahoma	OK	-	· -	-	-	· -	· -	4	1,084.9	18,641	4	1,084.9	18,641
Oregon	OR	8	1,544.3	64,254	1	72.1	1,190	17	4,117.9	54,041	26	5,734.3	119,485
Pennsylvania	PA	20	4,040.8	154,878	19	5,080.2	83,837	40	14,704.6	260,234	79	23,825.5	498,949
Puerto Rico	PR	-	-	-	-	-	-	1	75.5	1,162	1	75.5	1,162
Rhode Island	RI	1	104.7	1,479	3	202.6	3,450	3	257.9	3,508	7	565.2	8,437
South Carolina	SC	-	-	-	-	-	-	1	276.6	1,811	1	276.6	1,811
South Dakota	SD	-	-	-	-	-	-	1	87.3	1,610	1	87.3	1,610
Tennessee	TN	4	1,955.6	88,977	4	105.3	2,131	17	1,354.7	26,783	25	3,415.6	117,891
Texas	TX	2	3.6	379	-	-	-	16	2,646.6	68,847	18	2,650.2	69,226
Utah	UT	2	291.8	20,815	-	-	-	3	298.6	4,783	5	590.5	25,598
Vermont	VT	-	-		-	-	-	1	24.4	417	1	24.4	417
Virginia	VA	3	3,899.4	136,886	3	6,505.5	162,205	7	453.1	4,616	13	10,858.0	303,707
Washington	WA	9	4,223.0	184,537	3	1,187.9	20,228	22	44,344.1	672,215	34	49,755.1	876,980
West Virginia	WV	4	556.8	8,614	3	163.4	2,721	6	1,025.2	15,099	13	1,745.3	26,434
Wisconsin	WI	4	586.8	21,479	6	3,512.4	54,578	8	1,195.9	15,064	18	5,295.1	91,121
Wyoming	WY	2	30.1	1,471	-	-	-	-	-	-	2	30.1	1,471
		327	111,199.5	3,489,528	204	77,293.2	1,403,759	818	276,920.1	5,542,735	1,349	465,412.8	10,436,022

Results are based on Form 5500 data for plan years ending on or about December 31, 2013.

Plans are grouped by the states listed for the plan's address on the Form 5500. Often, the plan's address is the address of the plan administrator. Many plans are regional or national. Plans in seriously endangered status are included above with plans in endangered status. Plans that did not specify a status are assumed to be in the "green zone."



Appendix D provides a listing of the multiemployer defined benefit pension plans in the construction industry that were included in the inventory. Note that only the 790 plans that filed a Form 5500 for 2012 or later are included.

The plans are listed alphabetically by state (postal code) and then by city. Note that the location shown is often for the administrator or other party that filed the Form 5500, and not necessarily for the plan itself. For example, the Worcester Plumbers & Pipefitters Union Local No. 4 Pension Plan mainly covers participants in Massachusetts, but it is listed under Connecticut (CT), where its administrator is located. Similarly, the Plumbers and Pipefitters National Pension Fund — which covers participants across the nation — is listed under Virginia (VA), where its fund office is located.

For reference, the listing shows plan asset values and participant counts as of the end of the latest plan year for which a Form 5500 was filed. This listing may be useful to employers who wish to learn more about the construction industry multiemployer plans in which they participate.

Much can be learned about a plan from its Form 5500, and the Department of Labor makes Form 5500 filings (for 2009 and later) available for public inspection on its EFAST2 website. To find a Form 5500 filing for a given plan, click on the link for "Form 5500 search" and then enter the plan's employer identification number (EIN) and plan number. The EIN and plan number for every plan in the inventory are shown in the attached listing.

Employers may also use this listing and EFAST2 to gather information needed for the disclosure requirements required by the Financial Accounting Standards Board (FASB) regarding participation in multiemployer plans.

More information on the FASB requirements and how to comply with them – including a sample disclosure exhibit and frequently asked questions – can be found on the MCAA website and the Horizon Actuarial website. The standard itself (Subtopic 715-80) can be found on the FASB website.

For reference, Exhibit D.01 to the right summarizes the plans in the listing by state (similar to what is shown in Exhibit C.01). Total plan asset values and the total number of participants are also shown. The asset values and participant counts are as reported in each plan's latest Form 5500 filing.

In total, the 790 construction industry plans in the inventory represent \$238 billion in assets and cover over 4 million participants and beneficiaries.

Exhibit D.01

Construction In	dustry	Plans by	State	
			Total	Total
		Number	Assets	Participants
State Name	Code	of Plans	(\$Millions)	(Thousands)
Alabama	AL	8	264.5	6.2
Alaska	AK	3	1,932.6	11.3
Arizona	ΑZ	10	709.9	20.9
Arkansas	AR	1	3.5	0.1
California	CA	62	29,662.4	419.9
Colorado	CO	7	1,402.9	25.1
Connecticut	CT	19	2,029.1	33.0
Delaware	DE	7	335.3	5.9
District of Columbia	DC	10	19,146.0	392.8
	FL	14	811.4	14.6
Georgia	GA	5	491.9	7.7
Hawaii	HI	10	1,421.2	16.8
Idaho	ID 	1	93.6	1.7
Illinois	IL	56	22,801.2	250.9
Indiana	IN	20	4,102.6	71.5
Iowa	IA	4	234.8	2.8
Kansas	KS	8	8,873.5	120.2
Kentucky	KY	5	267.0	5.5
Louisiana	LA	11	708.8	18.4
Maine	ME	-	-	-
Maryland	MD	40	22,963.8	701.9
Massachusetts	MA	17	7,721.5	93.7
Michigan	MI	46	10,700.1	174.1
Minnesota	MN	18	7,169.5	100.7
Mississippi	MS	-	-	-
Missouri	MO	28	7,708.0	87.4
Montana	MT	-	-	-
Nebraska	NE	6	649.3	11.7
Nevada	NV	4	1,060.4	16.5
New Hampshire	NH	1	38.7	0.5
New Jersey	NJ	29	6,101.1	85.9
New Mexico	NM	2	51.5	4.0
New York	NY	105	17,224.4	242.1
North Carolina	NC	-	-	-
North Dakota	ND	-	-	-
Ohio	ОН	62	8,958.5	109.2
Oklahoma	OK	4	1,084.9	18.6
Oregon	OR	15	3,967.4	51.1
Pennsylvania	PA	55	19,022.3	293.0
Rhode Island	RI	7	565.2	8.4
South Carolina	SC	-	-	-
South Dakota	SD	_	_	-
Tennessee	TN	20	1,345.9	30.6
Texas	TX	15	2,325.3	65.4
Utah	UT	3	298.6	4.8
Vermont	VT	1	24.4	0.4
Virginia	VA	8	9,581.3	290.7
Washington	WA	18	8,333.5	111.7
West Virginia	WV	9	1,020.3	18.1
Wisconsin	WI	14	4,326.2	66.8
Wyoming	WY	2	30.1	1.5
TOTAL	** 1	790	237,564.7	4,014.0
Source: 2012-2013 For	m 5500 r		237,304.7	7,017.0
Jour Cc. 2012-2013 FULL	JJUU L	, u ta		



*1.4.100		The state of the s	10440110144		0,000	00/00/00	1 100		
926005171	001	ALASKA IDOMINIODIZES PENSION PLAN	ANCHORAGE	AK	238210	12/31/13	1,837.5	10,114	2 (
926004524	001	ALASKA TROWEI TRADES PENSION PLAN	ANCHORAGE	AK	524290	6/30/14	33.8	348) z
630437949	001	BIRMINGHAM P & S LOCAL UNION NO 91 PENSION FUND	BIRMINGHAM	AL	238220	12/31/13	23.6	728	U
636055108	001	AF OF LAGC BUILDING TRADES PENSION PLAN	MOBILE	AL	238900	6/30/14	97.9	2,332	Z
630474674	001	ASBESTOS WORKERS LOCAL UNION NO 55 PENSION PLAN	MOBILE	AL	238900	12/31/13	11.6	244	C
510176914	001	IBEW LOCAL 505 NECA PENSION PLAN	Mobile	AL	238210	8/31/13	32.3	795	Z
646151461	001	LOCAL UNION 903 PENSION PLAN	MOBILE	AL	525100	11/30/13	29.7	781	Z
636055121	001	MECHANICAL CONTRACTORS UA LOCAL 119 PENSION PLAN	MOBILE	AL	235310	12/31/13	39.5	595	C
636219747	001	SHEET METAL WORKERS LOCAL 441 SUPPLEMENTAL PEN PLN	MOBILE	AL	525100	12/31/13	5.8	316	Z
630267566	005	TUSCALOOSA PLUMBERS & STEAMFITTERS LOCAL 372 PENSION PLAN	TUSCALOOSA	AL	238220	6/30/14	24.0	442	Z
716093109	001	HEAT AND FROST INSULATORS & ALLIED WORKERS LOCAL 10 PENSION PLAN	LITTLE ROCK	AR	238300	12/31/13	3.5	108	С
866084210	001	ARIZONA LABORERS AND TEAMSTERS PENSION TRUST FUND	PHOENIX	AZ	238900	12/31/13	92.5	3,606	Z
866069718	001	ARIZONA SHEET METAL PENSION TRUST FUND	PHOENIX	AZ	238900	6/30/14	74.7	1,361	z
516119487	001	AZ BRICKLAYERS PENSION TRUST FUND	PHOENIX	AZ	525100	12/31/13	33.8	694	z
866056025	001	AZ STATE CARPENTERS PENSION TRUST FUND	PHOENIX	AZ	238900	12/31/13	61.1	4,300	N/A
860323980	001		PHOENIX	AZ	238210	12/31/13	128.7	2,893	z
866089862	001	IBEW LOCAL NOS 570 & 518 AND SOUTHERN AZ CHAPTER NECA PENSION PLAN	PHOENIX	¥2	238210	12/31/13	84.4	1,370	z
866025732	001	OPERATING ENGINEERS LOCAL 428 PENSION TRUST FUND	PHOENIX	ΑZ	541330	12/31/13	50.2	2,338	z
866068085	001	PHOENIX PAINTERS PENSION TRUST FUND	PHOENIX	AZ	238300	11/30/13	15.5	770	z
596230530	001	SOUTH FLORIDA ELECTRICAL WORKERS PENSION PLAN	PHOENIX	AZ	235310	12/31/13	92.6	2,340	ш
866049763	001	I B E W LOCAL 769 MANAGEMENT PENSION PLAN A	SCOTTSDALE	AZ	236200	6/30/14	76.5	1,241	z
946276501	001	BAY AREA PAINTERS & TAPERS PENSION PLAN	ALAMEDA	5 5	238900	12/31/13	346.6	7,270	ш
946273930	001	HOD CARRIERS UNION LOCAL 166 PENSION PLAN	ALAMEDA	5 ;	238900	6/30/14	20.2	241	z
946090764	001	OE PENSION TRUST FUND	ALAMEDA	გ :	236200	12/31/13	3,425.0	37,813	U
946284071	001	RESILIENT FLOOR COVERING PENSION FUND	ALAMEDA	5 3	238300	12/31/13	350.5	3,848	<u>ر</u>
946278490	001		ALAMEDA	5 3	238300	4/30/14	103.5	1,1/3	z
526075035	002	UNITED BROTHERHOOD OF CAPENTERS PENSION PLAN UNITED STATES SEGMENT	ALAMEDA	5	813000	12/31/13	705.9	4,582	z
510155190	100	W STATES INSULATIONS & ALLEID WINNES PENSION FUND	ALAIMEDA	5 3	238900	12/31/13	311.1	4,098	2 ;
955579165	100	KERN COLINTY ELECTRICAL WORKERS BENSION EINN	RAKERSEIEID	5 5	238210	12/31/13	104.3	6,501	2 2
95639274	001	SOUTHERN CALIFORNIA IREW-NECA PENSION TRUST FILIND	COMMERCE	5 8	238210	6/30/14	1.059.1	15.110	ш
943190386	001	NORTHERN CALIFORNIA PIPE TRADES PENSION PLAN	CONCORD	5 5	238220	12/31/13	539.6	3,571	z
516052141	001	SOUTHERN CALIFORNIA PLASTERING INSTITUTE PENSION TRUST FUND	COVINA	5	238300	12/31/13	78.1	1,569	z
942859426	001	U A LOCAL NO 159 DEFINED BENEFIT PLAN	DUBLIN	CA	238220	12/31/13	75.9	725	Z
436159056	001	CONSTRUCTION LABORERS PENSION TRUST FUND FOR SOUTHERN CALIFORNIA	EL MONTE	S	237990	12/31/13	1,620.9	29,093	z
956090541	001	SAN DIEGO COUNTY CONSTRUCTION LABORERS PENSION TRUST FUND	EL MONTE	5	236200	8/31/13	238.2	4,815	z
516031409	001	SOUTHERN CALIFORNIA FLOOR COVERING PENSION TRUST FUND	EL MONTE	5	238300	12/31/13	90.2	1,309	Е
954354179	001	SOUTHERN CALIFORNIA GUNITE WORKERS PENSION FUND	EL MONTE	5	237990	12/31/13	30.3	445	z
956376874	001	SOUTHERN CALIFORNIA LOCAL 831 - EMPLOYER PENSION FUND		5 ;	238900	12/31/13	310.8	2,978	z
510190581	002	SOUTHERN CALIFORNIA ROCK PRODUCTS AND READY MIXED CONCRETE INDUSTRIES OPERATING ENGINEER EMP		გ :	237990	12/31/13	120.3	1,374	Z
946277699	100	CEMENT MASON PENSION TRUST FUND FOR NORTHERN CALIFORNIA	FAIRFIELD	5 5	236200	8/31/13	1 201.5	4,426 31.8F.6	.
946277808	001	LABORERS PENSION I RUST FOUND FOR NORTHERN CALIFORNIA IREM LOCAL # 952 VENTURA DIVISION OF LA COLINTY CHAPTER NECA PENSION TRUST FLIND	FRESNO	5 5	236200	5/30/14	1,504.3 87.2	789	ں ر
946216336	001		FRESNO	5 5	238210	6/30/14	124.4	922	Z
516108443	001	SOUTHERN CALIFORNIA PIPE TRADES RETIREMENT FUND	LOS ANGELES	5	238220	12/31/13	795.3	12,769	z
956042875	001	SOUTHWEST CARPENTERS PENSION TRUST	LOS ANGELES	5	238100	12/31/13	3,424.6	60,946	z
956052257	100	SHEET METAL WORKERS PENSION PLAN OF SOUTHERN CALIFORNIA ARIZONA AND NEVADA	MANHATTAN BEAC	8	238900	12/31/13	931.2	10,041	O
946050970	100	CARPENTERS PENSION TRUST FUND FOR NORTHERN CALIFORNIA	OAKLAND	CA	236200	8/31/13	2,473.8	44,538	С
956035386	001	AIRCONDITIONING AND REFRIGERATION INDUSTRY RETIREMENT TRUST FUND	ORANGE	S	238220	12/31/13	257.8	2,777	z
956042866	001	CALIFORNIA IRONWORKERS FIELD PENSION TRUST	PASADENA	5	238900	5/31/14	1,687.8	19,477	Е
956032478	001	OPERATING ENGINEERS PENSION TRUST	PASADENA	5	238290	6/30/14	1,764.4	34,764	C
069888006	001	B A C LOCAL NO 3 PENSION PLAN	PLEASANTON	5	0	6/30/14	78.4	1,349	Z
946287225	001	BRICKLAYERS AND ALLIED CRAFTSMEN LOCAL 16 PENSION PLAN	PLEASANTON	5	525100	6/30/14	4.9	126	S

	3,269 C	76 528 F	220,343 N	2,081 N			9,869 N				N 270		155 N/A				1,452 N				472 N	1,308 N	1,579 N/A		9/1 N 823 N			1,550 N 636 C				465 N					S16 N					1,462 E
	112.9	1 433 8	13,456.4	272.4	106.3	1,021.2	1,180.8	276.5	808.2	9.1	20.6	40.5	137 1	113.3	14.1	20.8	129.4	37.7	32.9	136.6	48.7	51.8	94.8	47.2	36.3	44.0	263.5	86.5	22.7	98.3	185.6	35.8	278.5	215.9	169.2	408.9	21.1	49.2	43.5	14.0	38.8	138.6
-11-	3/31/14	12/31/13	1/31/14	12/31/13	12/31/13	12/31/13	12/31/13	11/30/13	12/31/13	12/31/13	3/31/14	4/30/14	4/30/14	12/31/13	12/31/13	12/31/13	8/31/13	12/31/13	7/31/14	12/31/13	11/30/13	9/30/13	12/31/13	6/30/14	8/31/13	4/30/14	12/31/13	12/31/13	6/30/14	9/30/13	9/30/13	12/31/13	2/28/14	1/31/14	2/28/14	7/31/14	12/31/13	3/31/14	11/30/13	12/31/13	9/30/13	12/31/13
	238220	238100	525990	813930	813930	238900	238900	813930	813930	238900	813930	525100	238900	525100	525100	236200	238220	238220	238220	235110	238900	236200	238220	525100	235110	238220	238220	238900	238900	238210	238210	32/210	525300	238220	238100	238220	238900	238100	525100	236200	236200	238220
5	5 2	2 2	20	DC	DC	20 2	2 2	20	20	DE	DE	DE	DE DE	DE	DE	교	๔ :	2 2	FL	급 :	2 2	FL	F	교 :	로 근	FL	GA	GA GA	GA S	GA	Ξ:	Ī 5	Ξ	Ξ	豆	Ξ :	Ξ 5	Ē Ī	₹	Ι	Ι	₹
WEST TAVEIN	WEIHERSFIELD	WASHINGTON			WASHINGTON	WASHINGTON	WASHINGTON	WASHINGTON	WASHINGTON	CLAYMONT	WILMINGTON	WILMINGTON	WILMINGTON	WILMINGTON	WILMINGTON	JACKSONVILLE	JACKSONVILLE	JACKSONVILLE	JACKSONVILLE	PEMBROKE PINES	PEINIBRONE PINES	PEMBROKE PINES	PEMBROKE PINES	PEMBROKE PINES	PeiviBroke Pines	PEMBROKE PINES	ATLANTA	ATLANTA	TUCKER	TUCKER	HONOLULU	HONOLULU	HONOLULU	HONOLULU	HONOLULU	HONOLULU	HONOLULU	WAIPAHU	DES MOINES	DES MOINES	DES MOINES	DES MOINES
CONNECTICUT LABORERS PENSION PLAN	CONNECTION PLOWBERS & PIPERITIERS PENSION FUND BAC SALABIED EMBLOYEES DENSION BLAN	BAC - SALAKIED EMPLOYEES PENSION PLAN RRICKLAVERS & TROWEL TRADES INTERNATIONAL PENSION FLIND	CENTRAL PENSION FUND OF THE IUOE & PARTICIPATING EMPLOYERS			LIUNA NATIONAL (INDUSTRIAL) PENSION FUND	LIUNASTAFF AND AFFILIATES PENSION FUND NATIONAL SHOPMEN PENSION FUND		THE GENERAL PENSION PLAN OF THE INTERNATIONAL UNION OF	WOOD WIRE AND METAL LATHING IND GENERAL PENSION PLAN & GENERAL PENSION FUND	B A C LOCAL 1 - DE/PA PENSION TRUST	LABORERS LOCAL UNION #129 PENSION FUND	MLWRTS & MACHINERY ERECTORS LU NO 1545 PENSION PLAN NECA I OCAL I INION NO 313 IREW PENSION PLAN	PLUMBERS & PIPEFITTERS LOCAL UNION NO 74 PENSION FUND	U A LOCAL 782 PENSION PLAN	IRONWORKERS LOCAL #597 PENSION PLAN	JACKSONVILLE PLUMBERS AND PIPEFITTERS PENSION PLAN DI HAMBERS & EITTERS I OCAL HAIJON 205 DENSION DI AN	PLUMBERS & PIPEFITTERS LOCAL 123 PENSION FUND	PLUMBERS AND PIPEFITTERS LOCAL UNION NO 803 PENSION FUND	ACRA LOCAL 725 PENSION FUND OF DADE BROWARD & MONROE COUNTIES	I B E W LOCAL NO 728 FENSION FOND INTERNATIONAL ASSOCIATION OF HEAT & FROST INS ASBESTOS WORKERS LOCAL UNION 60 PENSION FUND	MIAMI IRONWORKERS LOCAL #272 PENSION TRUST FUND		PENSION PLAN OF THE SHEET METAL WORKERS LU NO 32 PENSION TRUST FUND	PLUMBERS & PIPEFITTERS LUCAL UNION 719 PENSION FUND PLUMBERS & PIPEFITTERS LU 421 PENSION FUND TRUST	PLUMBERS LOCAL UNION NO 519 PENSION FUND	ATLANTA PLUMBERS & STEAMFITTERS PENSION FUND	SHEET METAL WORKERS LOCAL 85 PENSION FUND ALLIFD WORKERS LOCAL 48 PENSION PLAN				HAWAII GLAZIEKS PENSION I KUSI FUND HAWAII INSIII ATORS GLIDDI EMERITAL PENSION PLAN	HAWAII LABORERS PENSION PLAN	HAWAII SHEET METAL WORKERS PENSION FUND	MASONS PENSION PLAN	PAMCAH-UA LOCAL 675 PENSION PLAN	KOOFEKS LOCAL ZZI PENSION IROSI FUND	HAWAII KEINFÜREINB IRON WORKERS PENSION PLAN HAWAII STRIICTI IRAI IRON WORKERS PENSION PI AN	DES MOINES IRON WORKERS PENSION TRUST	IOWA CARPENTERS HEAVY HIGHWAY/TEAMSTERS JT COUNCIL #45 PENSION PLAN	IOWA IRONWORKERS HEAVY HIGHWAY PENSION PLAN	PENSION PLAN OF THE PLUMBERS AND STEAMFITTERS LOCAL UNION NO 33 RETIREMENT TRUST
	001	001	001	002	005	001	001	333	001	001	001	001	001	001	001	001	001	001	001	001	001	015	001	001	001	001	001	001	890	001	002	100	001	001	001	001	001	001	001	001	001	001
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366136496 001 366136496 001 516034597 001 36613866 001 36613866 001 36613861 001 37057803 001 37057803 001 37057803 001 36630207 001 366493093 001 516030753 002 566493093 001	PUMMERS & FITTERS LOCAL 102 RESTANDING PLAN DUPAGE COUNTY CEMENT MASONS PENSION PLAN PENSION FUND OF CEMENT MASONS UNION LOCAL NO 502	Belleville	IL 238220	9/30/13	35.4	353	zz
	PENSION FUND OF CEMENT MASONS BUSION LOCAL NO 502	חכוונאווני	233220	CT/00/0	t. 00	CCC	
	PENSION FUND OF CEMENT MASONS UNION LOCAL NO 502	BELLWOOD	L 237310	6/30/14	65.5	681	J
		BELLWOOD	IL 525100	12/31/13	173.2	2,009	z
	LOCAL NO 731 EXCAVATORS AND PAVERS PENSION TRUST FUND	BURR RIDGE	IL 237310	12/31/13	110.3	1,594	Е
		CAROL STREAM	IL 525100	6/30/14	324.4	3,019	Z
	SHEET METAL WORKERS INTERNTL ASS LOC UN NO 268 PEN TR AND PLAN	CASEYVILLE	IL 238220	5/31/14	31.1	822	Z
	STEAMFITTERS LOCAL 439 PENSION PLAN	CASEYVILLE	IL 238220	12/31/13	28.6	251	Z
	PLUMBERS & PIPEFITTERS LOCAL 653 PENSION FUND	CENTRALIA	IL 238220	12/31/13	7.9	160	Z
	CARPENTERS LOCAL #496 PENSION PLAN	CHICAGO	IL 237990	5/31/14	35.5	282	C
	CHICAGO REGIONAL COUNCIL OF CARPENTERS PENSION FUND		IL 237990	6/30/14	2,831.1	33,328	Е
	ELECTRICAL CONTRACTORS ASSOC OF THE CITY OF CHGO LOCAL UNION 134 IBEW JOINT PENSION TRUST OF CHG		IL 238210	6/30/14	1,386.9	19,301	z
	PENSION FUND - TECHNICAL ENGINEERING DIVISION LOCAL UNION 130 U A AFL-CIO		IL 525100	5/31/14	62.0	533	Z
	PIPE FITTERS RETIREMENT FUND LOCAL 597	CHICAGO	IL 238220	12/31/13	1,500.5	12,388	z
			IL 525100	5/31/14	905.0	9,169	Z
	PLUMBING & HEATING WHOLESALERS RETIREMENT INCOME PLAN FOR THE BENEFIT OF SHOPMENS DIVISION OF		IL 525100	12/31/13	12.6	542	z
	PLUMBERS LOCAL 360 PENSION PLAN	COLLINSVILLE	IL 238220	12/31/13	17.7	235	Z
366140097 001	MIDWEST OPERATING ENGINEERS PENSION I RUST FUND	COUNTRYSIDE	1 525100	3/31/14	3,324.6	27,417	ш з
	IBEW LOCAL NO II/ PENSION FUND	CRYSIAL LAKE	1 238210	12/31/13	163.9	724	2 2
516029903 001	NECA-IBEW PENSION I KUSI FUND	DECATOR	1 238210	5/31/14	965.5	3,786	z
356485998 001	RUDFEKS PENSION FUND DITHABEBE AND DIDEFITTEDS LOCAL LINION EED DENCION DLAN	EAST ALTON	1 238100	12/31/13	7.877	3,309	2 2
	SOLITHERN II INDIS BRICKLAYERS PENSION FIND	FAST ALTON	735400	6/30/14	17.6	444	zz
	FOX VALLEY AND VICINITY LABORERS PENSION FUND	ELGIN	IL 525100	5/31/14	342.6	4,505	ш
	BRICKLAYERS AND ALLIED CRAFTSMEN LOCAL NO 74 PENSION PLAN	ELMHURST	IL 236200	11/30/13	45.2	746	z
366489098 001	BRICKLAYERS LOCAL 21 PENSION FUND	ELMHURST	IL 813930	5/31/14	196.6	3,819	Z
	CHICAGO TILE INSTITUTE PENSION FUND	ELMHURST	IL 525100	12/31/13	69.7	1,349	Z
366151819 001	MASONS AND PLASTERERS PENSION PLAN LOCAL NO 56 DUPAGE COUNTY ILLINOIS	ELMHURST	IL 813930	12/31/13	56.4	1,090	z
	TUCKPOINTERS LOCAL 52 PENSION PLAN	ELMHURST	IL 238100	4/30/14	203.7	1,842	z
	STRUCTURAL IW LOCAL #1 PENSION PLAN	FOREST PARK	IL 237990	12/31/13	375.1	3,258	z
	CARPENTERS PENSION FUND OF ILLINOIS	GENEVA	IL 525100	12/31/13	1,720.7	17,856	z
	SHEET METAL WORKERS LOCAL 73 PENSION FUND	HILLSIDE	IL 238100	6/30/14	470.8	5,803	Z
	CENTRAL LABORERS PENSION FUND	JACKSONVILLE	L 525100	12/31/13	921.3	16,571	U (
366488227 001	WILL COON IT LOCAL I/4 CARPEN ERS PENSION FOND IRON WORKERS MID-AMERICA BENSION BLAN	JOCIET	11 237990	12/31/13	585 7	10.023	2 ر
	GLAZIERS UNION LOCAL NO 27 PENSION & RETIREMENT PLAN	SNOXT	12 237330	5/31/14	83.6	941	z
		MOKENA	IL 238300	3/31/14	683.7	6,441	Z
	LOCAL 81 INTL ASSOC OF HEAT & FROST INSULATORS & ALLIED WORKERS PENSION PLAN	MOLINE	IL 238900	4/30/14	22.1	238	Е
	NECA LOCAL 145 IBEW PENSION FUND	Moline	IL 238210	8/31/13	123.1	1,400	z
361416355 001	MACHINERY MOVERS RIGGERS & MACH ERECT LOCAL 136 SUPPLEMENTAL RETIREMENT PLAN	OAKBROOK	IL 525100	6/30/14	29.1	381	П
	LABORERS LOCAL 231 PENSION PLAN	PEKIN	IL 237310	12/31/13	62.0	1,115	z
	OPERATIVE PLASTERERS & CEMENT MASONS INTERNATIONAL ASSOCIATION LOCAL 12 PENSION FUND	PEORIA	IL 813000	11/30/13	19.1	352	z
376058341 001	PEORIA CHAPTER OF BRICKLAYERS LOCAL NO 6 PENSION PLAN AND TRUST	PEORIA I	L 238100	4/30/14	17.2	494	z
	DITIMARERS & PIPELITTERS LOCAL NO 25 PENSION FILIND	ROCK ISLAND	1 238220	3/31/14	756.8	1 701	zz
	ROCKFORD PIPE TRADES INDISTRY PENSION FILIND	ROCKEORD	738220	3/31/14	124.7	877	L
	PLUMBERS & STEAMFITTERS LOCAL 137 PENSION FUND	SPRINGFIELD	IL 238220	3/31/14	80.8	796	z
	SHEET METAL WORKERS LOCAL 218S PENSION PLAN	SPRINGFIELD	IL 525100	7/31/14	32.5	329	z
376053929 001	EMPLOYERS & OPERATING ENGINEERS LOCAL 520 PENSION FUND	SWANSEA	IL 525100	12/31/13	168.7	1,661	Z
	INTERNATIONAL ASSOC OF HEAT AND FROST INSULATORS LOCAL 17 PENSION FUND	TINLEY PARK	IL 238220	12/31/13	205.2	2,006	Z
	PLUMBERS LOCAL UNION NO 93 U A PENSION FUND	NOLVO	IL 238220	11/30/13	61.8	096	z
		WARRENVILLE	IL 525100	5/31/14	282.1	2,679	ш
	BRICK & STONE MASONS LOCAL 20 OF LAKE COUNTY- PENSION PLAN	WAUKEGAN	IL 813930	12/31/13	39.8	524	z
362514514 002	LABORERS PENSION FUND	WESTCHESTER	IL 237990	5/31/14	2,529.5	26,812	z

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516077720	001	LOCAL UNION NO 9 I B E W AND OUTSIDE CONTRACTORS PENSION FUND	WESTCHESTER						
516132690	100	PLUMBERS & STEAMFITTERS LOCAL 166 AFL-CIO PENSION	FORT WAYNE	Z	238220	5/31/14	42.6	1,004	z
376078600	001	EAST CENTRAL ILLINOIS PIPE TRADES PENSION FUND	INDIANAPOLIS	Z	525100	7/31/14	52.1	772	z
356057648	001	INDIANA CARPENTERS PENSION FUND	INDIANAPOLIS	N	813930	12/31/13	384.3	6,444	N/A
351102579	001	INDIANA ELECTRICAL WORKERS PENSION PLAN	INDIANAPOLIS	N	238210	6/30/14	237.2	3,002	Е
356060378	001	INDIANA STATE COUNCIL OF CARPENTERS PENSION FUND	INDIANAPOLIS	N	525100	3/31/14	411.1	7,031	C
516123713	001	NORTHWEST INDIANA REGIONAL COUNCIL OF CARPENTERS PENSION TRUST FUND	INDIANAPOLIS	Z	238100	6/30/14	922.8	13,155	z
356074754	001	RETIREMENT PLAN OF THE INDIANAPOLIS CHAPTER OF BRICKLAYERS LOCAL NO 4 OF IN/KY I U OF B & A C	INDIANAPOLIS	≥ :	238100	11/30/13	56.3	1,438	z
376118084	001	SHEET METAL WORKERS LOCAL NO 20 INDIANAPOLIS AREA PENSION FUND II A PI IIMBERS 63 AND STEAMEITTERS 353 IOINT BENSION TRIKT EIIND	INDIANAPOLIS	Z Z	813930	12/31/13	124.0	1,784	zz
356068417	001	IBEW LOCAL 531 & NECA PENSION PLAN	LAPORTE	2 2	525100	11/30/13	57.7	717	zz
516113680	001	BRICKLAYERS UNION LOCAL NO 6 OF INDIANA PENSION FUND	MERRILLVILLE	Z	238900	6/30/14	62.8	774	: ш
356296477	001	CEMENT MASONS PENSION FUND OF LOCAL NO 165	MERRILLVILLE	2	238100	12/31/13	23.6	183	z
356030666	001	CONSTRUCTION WORKERS PENSION TRUST FUND - LAKE COUNTY AND VICINITY PENSION PLAN	MERRILLVILLE	Z	237990	5/31/14	362.2	5,416	z
346668355	001	GLAZIERS LOCAL 1162 PENSION FUND	MERRILLVILLE	N	238100	4/30/14	9.1	228	Z
516133048	001	LOCAL 697 I B E W AND ELECTRICAL INDUSTRY PENSION PLAN	MERRILLVILLE	N	238210	12/31/13	153.2	1,620	Е
356212986	001	PLUMBERS & PIPEFITTERS LOCAL 172 PENSION FUND	MERRILLVILLE	Z	238220	2/28/14	74.1	898	C
346615264	001	ROOFERS LOCAL NO 88 PENSION FUND	MERRILLVILLE	Z	238100	4/30/14	29.7	426	C
356057213	001		MERRILLVILLE	<u>Z</u>	238220	12/31/13	55.4	920	Z
356054275	001	SHEET METAL WORKERS LOCAL 20 SOUTH BEND AREA PENSION PLAN	SOUTH BEND	<u>N</u>	332900	6/30/14	19.1	460	C
356027150	001	INDIANA LABORERS PENSION FUND	TERRE HAUTE	2	236200	5/31/14	898.3	24,034	Е
486168020	001	BOILERMAKER-BLACKSMITH NATIONAL PENSION TRUST	KANSAS CITY	KS	238900	12/31/13	7,612.1	92,011	Е
436102453	001	BAC LOCAL UNION 15 PENSION FUND	OVERLAND PARK	KS	238100	3/31/14	86.0	1,645	z
436060737	001	CONSTRUCTION INDUSTRY LABORERS PENSION FUND	OVERLAND PARK	KS	237990	12/31/13	658.6	12,359	z
436141953	001	GREATER KANSAS CITY LABORERS PENSION PLAN	OVERLAND PARK	KS	525100	10/31/13	213.9	3,532	z
436098247	001	KANSAS CITY CEMENT MASONS PENSION FUND	OVERLAND PARK	KS	238900	7/31/14	55.6	954	z
486171386	001	INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL UNION NO 226 OPEN END PENSION FUND	TOPEKA	KS	238210	12/31/13	69.1	1,006	O
486171387	001	KANSAS CONSTRUCTION TRADES OPEN END PENSION TRUST FUND	TOPEKA	KS	238900	12/31/13	146.5	7,678	U
486178607	001	LOCAL 441 PLUMBERS & PIPEFITTERS RETIREMENT PLAN	WICHITA	KS	238220	3/31/14	31.7	066	z
311017514	001	PLUMBERS & STEAMFITTERS LOCAL 248- PENSION TRUST PLAN	LEXINGTON	∑	238220	3/31/14	44.4	999	ш
316134953	001	PLUMBERS & STEAMFITTERS LOCAL 577 PENSION PLAN	LEXINGTON	Κ	238220	8/31/13	59.3	847	ш
616037176	001	PLUMBERS & STEAMFITTERS LOCAL NO 452 PENSION TRUST FUND	LEXINGTON	Σ	238220	6/30/14	32.2	743	ш
550549322	001	UNITED STEELWORKERS LOCAL 14614 PENSION TRUST FUND	LEXINGTON	χ	237310	12/31/13	41.3	2,022	z
610915309	001	UNITED STEELWORKERS OF AMERICA AFL-CIO-CLC HIGHWAY CONTRACTORS MULTI-EMPLOYER PENSION PLAN	LEXINGTON	kγ :	23 / 990	8/31/13	89.9	1,2/5	z
726057089	001	BALON ROUGE SHEEL MELAL WORKERS PENSION FUND FIFTRICIANS PENSION PLAN IREW 995	Baton Rouge	⊴ ⊴	339900	9/30/13	38.9 55.1	1.266	шС
510163535	001	I OLIISIANA CARPENTERS PENSION FLIND	BATON ROLIGE	4	813000	12/31/13	39.1	1.479	C
720522454	001	UNITED ASSOCIATION OF JOURNEYMEN & APPRENTICES LOCAL 198 AFL-CIO PENSION FUND	BATON ROUGE	i ≤	238220	8/31/13	190.0	3,023	U
720542804	001	ASBESTOS WORKERS LOCAL 53 PENSION PLAN	KENNER	ΓA	525100	12/31/13	45.9	823	Z
720626673	001	INSULATORS LOCAL 112 PENSION TRUST FUND	LAKE CHARLES	ΓA	238900	6/30/14	2.9	312	С
720575303	001	LOCAL UNION NO 861 IBEW AFL-CIO PENSION AND RETIREMENT PLAN	LAKE CHARLES	4	525100	12/31/13	34.0	885	U
720545875	001	PLUMBERS & STEAMFITTERS LOCAL 106 PENSION TRUST FUND- DEFINED BENEFIT PLAN	LAKE CHARLES	⊴ :	238220	6/30/14	27.7	1,217	O
726032179	001	BOARD OF TRUSTEES IRON WORKERS MID-SOUTH PENSION TRUST	METAIRIE	⊴ :	525920	11/30/13	119.3	3,618	U :
721489654	001	LOUISIANA MISSISSIPPI CARPENTERS REGIONAL COUNCIL PENSION TRUST	METAIRIE	⊴ :	525100	5/31/14	89.5	2,862	z
726025640	001	PLUMBERS AND STEAMHITHERS LOCAL 60 PENSION FUND	METAIRIE	⊴ :	238220	6/30/14	66.3	2,218	z
516030859	001	PIPERI I EKS UNION L'OCCAL NO 337 PENNON FOUN	ALLSTON	MA	238220	2/28/14	4/8.1	2,954	2 (
046127786	001	BUSTON PLASTERERS & CEIMENT IMASONS UNION LOCAL 334 PENSION FUND FLETPICAL MORKERS BENSION BLAN LOCAL 103 LR E W	BOSTON	MA	525100	3/31/14	20.7	7 617	ے ر
046033734	001	MASSACHUSETTS BRICKLAYERS & MASONS PENSION PLAN	BOSTON	MA	525100	3/31/14	231.4	3.899	2 11
046128298	001	MASSACHUSETTS LABORERS PENSION FUND	BURLINGTON	MA	238900	12/31/13	1,206.1	17,685	ш
516135057	001	ASBESTOS WORKERS LOCAL 6 PENSION FUND	CHARLESTOWN	MA	561790	12/31/13	92.6	828	z
042746381	100	PLUMBERS & PIPEFITTERS LOCAL 104 PENSION PLAN	CHICOPEE	MA	525100	12/31/13	68.8	749	Z
042316465	001	ROOFERS AND SLATERS LOCAL UNION NO 248 PENSION PLAN	CHICOPEE	MA	813930	5/31/14	6.3	220	O
042591016	001	IRON WORKERS DISTRICT COUNCIL OF NEW ENGLAND PENSION FUND	DORCHESTER	MA	561110	12/31/13	358.8	4,319	Е

MICHONALY MA
MA 288300 12/31/13 24.1
TOUNDRING MA 238200 12/31/13 24.1 TAUNINGTON MA 238200 12/31/13 24.1 WILMINGTON MA 238200 12/31/13 1,943.9 22 WILMINGTON MA 238200 12/31/13 1,140.9 17 ANNADUS MD 238200 12/31/13 12.2 4 BALTIMORE MD 238210 12/31/13 184.7 3 BALTIMORE MD 238210 12/31/13 18.2 1 BALTIMORE MD 238210 12/31/13 18.2 1 BALTIMORIA MD 238200 12/31/13 35.6 COLUMBIA MD 238200 12/31/13 36.2 CONDHILL MD 238200 12/31/13 18.6 SPARKS M
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386254230	001	FLINT PLUMB & PIPE PENSION FUND	SING	⊵					E
386059001	001	HEAT AND FROST INSULATORS AND ALLIED WORKERS LOCAL 47 RETIREMENT TRUST PLAN	LANSING	Σ	238220	12/31/13	31.9	220	Е
366140629	001	IBEW LOCAL 150 PENSION FUND	LANSING	Ξ	238210	6/30/14	194.2	1,525	z
356269273	001	MICHIANA AREA ELECTRICAL WORKERS PENSION FUND	LANSING	MI	238210	6/30/14	129.9	1,362	N/A
382895943	001	MICHIGAN BAC PENSION FUND	LANSING	MI	238100	4/30/14	118.3	2,661	N/A
386233978	001	MICHIGAN CARPENTERS PENSION FUND	LANSING	M	238100	8/31/13	432.5	8,722	N/A
386233977	001	MICHIGAN ELECTRICAL EMPLOYEES PENSION PLAN	LANSING	MI	238210	12/31/13	327.9	4,472	N/A
386233976	001	MICHIGAN LABORERS PENSION PLAN	LANSING	M	237310	8/31/13	670.4	20,613	N/A
386222545	001	OUTSTATE MICHIGAN TROWEL TRADES PENSION FUND	LANSING	Ξ	238100	12/31/13	58.3	1,678	N/A
386082383	001	PAINTERS UNION LOCAL 1052 PENSION		Ξ	238300	4/30/14	14.8	621	z
386142222	001	PENSION PLAN OF THE INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL NO 445 PENSION FUND		≅	238210	4/30/14	19.0	470	N/A
381616942	001	SHEET METAL WORKERS LOCAL UNION 7 ZONE 2 PENSION PLAN	LANSING	Ξ	238220	12/31/13	66.7	705	Z
386233970	001	UPPER PENINSULA PLUMBERS & PIPEFITTERS PENSION PLAN	LANSING	M	238220	6/30/14	58.4	827	N/A
386080404	001	ELECTRICAL WORKERS PENSION TRUST FUND OF LOCAL UNION NO 58 - IBEW	MADISON HEIGHTS	Σ	238210	12/31/13	9.509	7,918	Z
386233909	005	INTL BROTHERHOOD OF ELEC WORKERS LOC 58 SOUND AND COMM DIV RET PL	MADISON HEIGHTS	Ξ	238210	1/31/14	27.0	1,262	Z
363020872	001	MICHIGAN UPPER PENINSULA INTRL BROTHERHOOD OF ELEC WORKERS PENSION PLAN	MARQUETTE	Ξ	525100	12/31/13	42.9	557	N/A
386056780	001	IRON WORKERS LOCAL NO 25 PENSION FUND		Ξ	813930	4/30/14	496.3	5,378	C
386152409	001	UNITED ASSN OF JOURNEYMEN PLUMBERS & JOURNEYMEN STEAMFITTERS & PIPEFITTERS LOCAL 357 PENSION P	ENSION P SCHOOLCRAFT	Σ	238220	6/30/14	6.06	751	Е
386234363	001	PAINTERS UNION PENSION PLAN	SOUTHFIELD	MI	525100	5/31/14	126.3	3,470	C
386065579	001	UA LOCAL 190 PENSION PLAN	ST. CLAIR SHORES	Σ	238220	5/31/14	156.2	1,975	N/A
516030972	001	BRICKLAYERS PENSION TRUST FUND-METROPOLITAN AREA	TROY	Ξ	238100	4/30/14	138.8	2,356	Е
516029523	001	BRICKMASONS LOCAL 22 PENSION PLAN	Troy	Σ	238100	10/31/13	23.4	421	Z
386242188	001	CARPENTERS PENSION TRUST FUND- DETROIT AND VICINITY	TROY	M	238300	4/30/14	747.3	18,772	C
386082372	001	FLINT AREA SHEET METAL WORKERS LOCAL 7-4 PENSION FUND	TROY	Σ	238100	4/30/14	41.9	557	С
386060516	001	HEAT AND FROST INSULATORS PENSION PLAN	TROY	Σ	238900	12/31/13	34.6	614	Е
556027928	001	IRONWORKERS LOCAL 549-550 PENSION PLAN	TROY	Σ	237990	3/31/14	117.1	1,379	Z
516030973	001	LABORERS PENSION TRUST FUND - DETROIT AND VICINITY	TROY	M	237310	4/30/14	569.2	10,917	N/A
346574360	001	OHIO CARPENTERS PENSION PLAN	TROY	Σ	238300	4/30/14	2,100.2	30,044	C
381900637	001	OPERATING ENGINEERS LOCAL 324 PENSION FUND	TROY	M	813930	4/30/14	1,183.4	17,158	C
383009873	001	PIPEFITTERS LOCAL 636 DEFINED BENEFIT PENSION FUND	TROY	Σ	235110	12/31/13	265.6	2,997	Е
616078145	001	PLUMBERS & PIPEFITTERS LOCAL UNIONS 502 AND 633 PENSION TRUST FUND	TROY	Σ	525100	7/31/14	333.4	2,913	C
383545518	900	PLUMBERS & PIPEFITTERS OF LOCAL UNION NO 333 PENSION FUND	TROY	Σ	238220	6/30/14	100.9	955	O
381752138	001	PLUMBERS & PIPEFITTERS U A LOCAL 85 PENSION PLAN	TROY	Σ	238220	12/31/13	117.5	1,549	Е
383031916	001	PLUMBERS LOCAL NO 98 DEFINED BENEFIT PENSION FUND	TROY	Ξ	235110	12/31/13	157.5	2,726	C
381425819	001	ROOFERS LOCAL 149 PENSION FUND	TROY	Ξ	238100	5/31/14	217.7	2,294	O
386237161	001	SHEET METAL 7 ZONE 3 PENSION FUND	TROY	Ξ	238220	4/30/14	52.9	909	Z
386234066	001	SHEET METAL WORKERS LOCAL 7 ZONE 1 PENSION PLAN	TROY	₹	813930	11/30/13	42.0	746	Е.
381659157	001	SHEET METAL WORKERS LOCAL NO 292 PENSION FUND	TROY	Σ	339900	3/31/14	79.1	1,817	N/A
386105633	001	SHEET METAL WORKERS LOCAL UNION NO 80 PENSION FUND	TROY	▼ :	238220	5/31/14	266.1	3,355	ш (
346682530	100	I OLEDO AREA SHEET IMETAL WORKERS PENSION PLAN		M	238220	4/30/14	30.4	903	، ر
416132635	001	MINNEAPOLIS PAINTING INDUSTRY PENSION PLAN	BLOOMINGTON	NIN	328000	11/30/13	85.8	757 77	ш
71607517	001	TAVIN CITY CABBENTERS AND JOINERS BENSION FIND		NN	238300	12/31/13	1,012.7	17,737	2 4
416145867	001	TWIN CITY FLOOR COVERING INDICATE PENSION FLIND		NN	238300	7/31/14	114.3	1,178	Z
416084127	001	TWIN CITY IRONWORKERS PENSION PLAN		NΜ	238100	12/31/13	289.2	3,525	ш :
416149933	001	CHRISTIAN LABOR ASSN PENSION TRUST DEFINED BENEFIT PLAN		NΜ	237310	6/30/13	39.8	926	z
416175080	001	UNITED CONSTRUCTION WORKERS PENSION FUND	Q.	MN	237310	12/31/13	25.1	409	z
416052631	100	ELECTRICAL WORKERS PENSION FUND	ригитн	MN	238210	12/31/13	50.0	1,093	В
416057633	001	IRON RANGE PLUMBERS & FITTERS RETIREMENT INCOME PLAN	ригитн	MN	238220	4/30/14	21.5	281	Z
410882304	001	WESTERN LAKE SUPERIOR PIPING INDUSTRY PENSION PLAN	ригитн	MN	238220	4/30/14	35.6	547	Z
416035616	001	ELECTRICAL WORKERS LOCAL NO 292 PENSION PLAN	MAPLE GROVE	NN	525100	4/30/14	187.6	4,656	z
411562581	001	SHEET METAL WORKERS LOCAL 10 PENSION FUND		NΜ	238900	12/31/13	227.1	4,483	z
516029930	001	MINNESOTA & NORTH DAKOTA BRICKLAYERS AND ALLIED CRAFTWORKERS PENSION FUND		NN.	238100	12/31/13	321.0	3,650	z
516096906	001	MINNESOTA CEMENT MASONS AND PLASTERERS PENSION FUND	MENDOTA HEIGHT!	NΝ	238900	12/31/13	179.1	1,700	Z

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18,393	7.47	3,195	4,443	1,218	640	412	10,371	299	3,259	2,281	6,185	1,636	1,105	1,905	5,363	3,588	288	1,112	6,411	394	771	2,617	1,885	21,862	4,966	7 762	2,096	4,752	344	1,104	544	257	405	19,221	1,967	1,416	496	1,616	7,498	800	764	10,925	529
1,577.2	789.0	176.2	479.9	8.96	104.1	33.8	867.0	31.3	164.5	187.8	694.9	82.9	69.2	108.9	441.9	348.9	36.2	15.7	615.1	58.8	24.0	8.0	76.5	2,050.5	449.6	6.I 117.5	90.1	254.1	15.3	112.7	38.7	15.0	17.9	1,139.7	87.1	58.9	67.2	111.5	495.8	3.3	72.2	583.6	41.1
12/31/13	4/30/13	9/30/13	4/30/14	7/31/14	9/30/13	12/31/13	3/31/14	12/31/13	8/31/13	1/31/14	12/31/13	9/30/13	5/31/14	12/31/13	10/31/13	6/30/14	12/31/13	5/31/14	4/30/14	10/31/13	6/30/14	3/31/14	12/31/13	4/30/14	12/31/13	12/31/13	12/31/13	12/31/13	8/31/13	3/31/14	5/31/14	12/31/13	4/30/14	12/31/13	12/31/13	12/31/13	12/31/13	12/31/13	12/31/13	12/31/13	12/31/13	3/31/14	10/31/13
236200	525100	525100	813930	238900	238900	23620	525100	238100	525100	237990	236200	238900	238220	525100	237990	812990	525100	237990	525100	238900	332900	238220	525100	525100	238220	238300	525100	525100	738300	238220	238210	237990	236200	236200	238100	238100	238220	237310	525100	238300	238210	237310	813930
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MINNESOTA LABORERS PENSION FUND	IMINNESO I A LEAVIS EAS CONSTRUCTION DIVISION PENSION FOND TWIN CITY PIPE TRADES PENSION PLAN	ST PAUL ELECTRICAL CONSTRUCTION PENSION PLAN	PENSION FUND OF OPERATING ENGINEERS LOCAL 513	PENSION PLAN FOR LOCAL UNION 527 OF OPERATIVE PLASTERERS AND CEMENT MASONS	INTERNATIONAL ASSOCIATION OF HEAT AND FROST INSULATORS AND ALLIED WORKERS LOCAL NO 1 PENSION PL INCAL 2010 WIDEMAANS DENISION TRILIT	LOCAL DOS WITCHWARDS FENSION TROST	CARPENTERS DISTRICT COUNCIL OF KANSAS CITY PENSION FUND	GLAZIERS AND GLASSWORKERS LOCAL 558 PENSION FUND	LOCAL UNION NO 124 I B E W PENSION TRUST FUND	MO-KAN IRON WORKERS PENSION FUND	OPERATING ENGINEERS LOCAL 101 PENSION PLAN	PAINTERS DISTRICT COUNCIL NO 3 PENSION FUND PIPE FITTERS LOCAL NO 533 PENSION PLAN	PLUMBERS LOCAL NO 8 PENSION PLAN	CENTRAL IOWA CARPENTERS PENSION PLAN	IRON WORKERS ST LOUIS DISTRICT COUNCIL PENSION TRUST	PAINTERS DISTRICT COUNCIL NO 2 PENSION TRUST AND PLAN AGREEMENT	SHEET METAL WORKERS LOCAL 218 C PENSION PLAN	KOOFEKS LOCAL NO 20 PENSION FUND EMPLOYERS AND LABORERS LOCALS 100 & 397 PENSION FUND	CONSTRUCTION LABORERS PENSION TRUST OF GREATER ST LOUIS	GLAZIERS AND GLASSWORKERS LOCAL 513 PENSION PLAN	LOCAL 202 SHEET METAL WORKERS PENSION FUND	SHEEL WE IN ELOCAL 38 PENSION FOND PILIMBERS AND PIPEFITTERS LOCAL LINION NO 45 RETIREMENT PLAN		CARPENTERS PENSION TRUST FUND OF ST LOUIS	PLUMBERS AND PIPEHTTERS LOCAL UNION 562 PENSION FUND	I ILE FINISHERS LOCAL UNION NO 1831 LOUIS MO PENSION PLAN CONTRACTORS LARORERS TFAMSTERS & FINGINEERS PENSION PLAN	IBEW LOCAL UNION NO 22/NECA DEFINED BENEFIT PENSION FUND PLAN A	OMAHA CONSTRUCTION INDUSTRY PENSION PLAN	PAIN LERS LOCAL NO 109 PENSION FUND BLIMMERS LOCAL LINION NO 16 DENSION PLAN	STEAMFITTERS LOCAL UNION NO 464 PENSION PLAN	I B E W LOCAL 490 PENSION FUND	BRICKLAYERS LOCAL 8 & PLASTERERS LOCAL 233 PENSION PLAN	PLASTERERS LOCAL 8 PENSION PLAN SHEET METAL WORKERS LOCAL 22 DENSION FLIND	NJ CARPENTERS PENSION FUND	B A C LOCAL NO 4 PENSION PLAN	BRICKLAYERS & ALLIED CRAFTWORKERS LOCAL NO 5 PENSION PLAN	I A H F I A W LOCAL NO 32 - PENSION TRUST FUND	LOCAL 147 CONSTRUCTION WORKERS RETIREMENT PLAN	NEW JERSEY BUILDING LABORERS STATEWIDE PENSION FUND	ASBESTOS WORKERS LOCAL 2 PENSION FUND	I B E W LOCAL UNION # 654 - DEFINED BENEFIT PENSION PLAN	HEAVY AND GENERAL LABORERS LOCAL UNIONS 472 AND 172 OF NEW JERSEY PENSION FUND	COMPOSITION RODEFES LOCAL #4 PENSION PLAN
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SPRINGFIELD N 238100 6/30/14 3116 3 WASTRINON N 238210 12/31/13 115.2 1 WEST TRENTON N 238210 12/31/13 109.7 1 WEST TRENTON N 238210 12/31/14 110.7 1 WEST TRENTON N 238210 3/31/14 111.7 1 WEST TRENTON N 238220 2/31/14 111.7 1 WEST TRENTON N 238220 2/31/14 111.7 1 WEST TRENTON N 238220 2/31/14 111.7 1 WEST TRENTON N 238200 2/31/13 136.7 1 ALS VEGAS N 238200 12/31/13 315.5 2 ALS VEGAS NV 238200 12/31/13 315.5 1 ALS VEGAS NV 238200 6/30/14 10.8 1 ALS VEGAS NV 238200 6/30/14 10.8 1
WARREN N 238220 12/31/13 125.2 1 WEST TRENTON N 238210 12/31/13 100.7 1 WEST TRENTON N 238210 12/31/13 132.1 1 WEST TRENTON N 238210 3/31/14 111.7 1 WEST TRENTON N 238220 3/30/14 111.7 1 WEST TRENTON N 238220 2/28/14 117.6 2 WEST TRENTON N 238220 3/30/14 111.7 1 WEST TRENTON N 238220 3/30/14 117.6 2 WEST TRENTON N 238200 4/30/14 150.7 1 WINSLOW N 238200 4/30/14 150.7 1 ALBOLOUEROLE N 238200 12/31/13 43.0 1 ALS VEGAS NV 238200 12/31/13 43.0 1 ALS VEGAS NV 238200 1/31/13 13.5 1
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EIN	PLAN	PLAN NAME	CITY	STATE	NAICS	PLAN YEAR END	ASSETS (\$M) P	PARTICIPANTS	PPA STATUS
516123374	001	SHEET METAL WORKERS LOCAL 46 PENSION FUND	ROCHESTER	Ν					Z
160778864	001	U A LOCAL 13 PENSION FUND	ROCHESTER	ΝY	525100	12/31/13	222.9	1,293	Z
113125387	001	PLUMBERS LOCAL UNION NO 200 PENSION FUND	RONKONKOMA	ΝΥ	238220	6/30/14	58.9	1,460	Е
146076460	100	LABORERS LOCAL #157 PENSION FUND	SCHENECTADY	Ν	813930	6/30/14	48.9	857	S
141490934	001	LOCAL UNION 236 IBEW PENSION PLAN	SCHENECTADY	Ν	525100	6/30/14	174.4	1,867	Z
156022550	100	ASBESTOS WORKERS SYRACUSE PENSION FUND	SYRACUSE	Ν	238900	12/31/13	6.9	159	С
150614642	001	ENGINEERS JOINT PENSION FUND LOCALS 17 106 410 463 545 832 IUOE	SYRACUSE	Ν	525100	3/31/14	259.8	7,245	C
166153389	001	IBEW LOCAL 43 & ELECTRICAL CONTRACTORS PENSION FUND	SYRACUSE	Ň	238210	6/30/14	122.4	1,683	E
150347955	001	PLUMBERS & STEAMFITTERS LOCAL 267 PENSION FUND	SYRACUSE	Ν	238220	12/31/13	81.7	1,207	N/A
146016608	001	BAC LOCAL #5 NEW YORK PENSION PLAN	UNIONDALE	Ň	813930	12/31/13	25.6	944	С
261174423	001	ELECTRICIANS RETIREMENT PLAN	UNIONDALE	Ν	0	12/31/13	48.3	1,419	z
166147773	001	LABORERS INTL UNION OF NA LOCAL 322 PENSION FUND	UTICA	Ň	238900	12/31/13	25.7	553	N/A
116049445	001	LOCAL 298 PENSION FUND	VALLEY STREAM	Ν	525100	12/31/13	3.8	469	C
166149240	001	I B E W LOCAL 910 PENSION FUND	WATERTOWN	Ň	561110	6/30/14	38.4	029	Z
166062398	001	ROOFERS LOCAL NO 74/ NO 203 PENSION PLAN	WEST SENECA	Ν	238300	6/30/14	60.2	729	Z
116158900	001	LOCAL 522 PENSION FUND ROOFERS DIVISION	WHITE PLAINS	Ň	238100	6/30/14	22.6	977	Z
416132938	001	ST PAUL PAINTING INDUSTRY PENSION PLAN	WHITE PLAINS	Ν	316110	11/30/13	0.1	126	N/A
346009649	100	ASBESTOS WORKERS LOCAL 84 PENSION PLAN	AKRON	ОН	238900	12/31/13	13.4	163	Е
346666798	001	BRICKLAYERS & ALLIED CRAFTSMEN LOCAL 7 PENSION	AUSTINTOWN	НО	238100	4/30/14	18.3	446	C
346550724	100	BRICKLAYERS AND MASONS LOCAL NO 43 OHIO PENSION P	AUSTINTOWN	НО	236200	4/30/14	16.2	177	Z
346583348	001	BRICKLAYERS LOCAL NO 8 PENSION FUND	AUSTINTOWN	ОН	525100	4/30/14	17.0	340	Z
346752566	001	CEMENT MASONS LOCAL UNION NO 179 PENSION PLAN	AUSTINTOWN	ОН	525100	4/30/14	12.9	185	Z
346701444	001	I B E W LOCAL 540 PENSION FUND	AUSTINTOWN	НО	238210	10/31/13	8.96	860	Z
316152294	100	LOCAL UNION NO 32 IBEW-NECA PENSION PLAN	AUSTINTOWN	НО	238210	12/31/13	20.2	402	Z
346622619	001	OPERATIVE PLASTERERS AND CEMENT MASONS LOCAL NO 109 PENSION PLAN	AUSTINTOWN	НО	238100	4/30/14	8.96	1,453	C
346682376	100	PLUMBING & PIPE FITTING LOCAL 219 PENSION FUND	AUSTINTOWN	НО	238220	4/30/14	33.0	699	O
346628427	100	ROOFERS LOCAL UNION NO 71 PENSION PLAN	AUSTINTOWN	НО	525100	6/30/14	15.6	202	Е
341939172	100	SHEET METAL WORKERS LOCAL 33 YOUNGSTOWN DISTRICT PENSION FUND	AUSTINTOWN	НО	236110	12/31/13	53.8	169	z
316127287	001	NSION PLAN	AUSTINTOWN	НО	238100	12/31/13	223.0	5,454	C
346701406	100	IBEW LOCAL 129 PENSION FUND PENSION PLAN	AVON	НО	235310	4/30/14	77.2	445	N/A
346720162	001	BRIDGE STRUCTURAL AND ORNAMENTAL IRONWORKERS LOCAL 207 PENSION FUND	BOARDMAN	НО	238900	12/31/13	31.3	575	С
346514703	001	PLUMBERS UNION LOCAL NO 55 PENSION PLAN	BROOKLYN HEIGHT	ОН	813930	4/30/14	85.4	1,412	Е
516123024	001	BRICKLAYERS & MASONS LOCAL NO 6 PENSION PLAN	CANTON	ОН	525100	12/31/13	27.2	459	Z
316131266	001	ASBESTOS WORKERS LOCAL 8 RETIREMENT TRUST FUND	CINCINNATI	ОН	238900	5/31/14	37.7	416	C
586051152	001	ATLANTA IRONWORKERS LOCAL #387 PENSION PLAN	CINCINNATI	НО	236200	2/28/14	9.86	1,429	z
316126985	001	BRICKLAYERS LOCAL 55 PENSION PLAN	CINCINNATI	HO	238100	4/30/14	14.9	485	U
310235930	001	CEMENT MASONS LOCAL 524 PENSION PLAN	CINCINNATI	HO	238100	5/31/14	4.9	218	U
31612/285	100	CUMPUSITION ROUFERS LOCAL 42 PENSION PLAN	CINCINNAII	5 8	238200	12/31/13	31.1	458	، ر
31612/281	001	GLAZIERS LOCAL 38 / PENSION PLAN	CINCINNATI	5 5	238900	11/30/13	13.4	197	ی ر
216127280	001	ENGOTIETO ESCONE ZOTO TENTO	CINCINIATI	5 5	238210	V / 30 / V	100.0	2,330) LI
516029565	001	OHIO BRICKLAYERS PENSION PLAN	CINCINNATI	등	238100	4/30/14	91.9	2.047	z
316126988	001	OHIO LOCAL NO 1 OPERATIVE PLASTERERS AND CEMENT MASONS PENSION FUND	CINCINNATI	НО	237310	4/30/14	15.1	359	z
316127284	001		CINCINNATI	НО	238100	5/31/14	11.6	149	z
310655223	001	PLUMBERS PIPE FITTERS AND MECHANICAL EQUIPMENT	CINCINNATI	НО	238220	5/31/14	248.5	3,083	С
311010072	100	ROOFERS LOCAL NO 75 PENSION FUND	CINCINNATI	НО	238100	5/31/14	10.4	303	C
316127876	001	ROOFERS LOCAL NO 86 PENSION FUND	CINCINNATI	ОН	238100	4/30/14	8.1	195	U
346573987	001	BUILDING LABORERS LOCAL 310 PENSION FUND	CLEVELAND	ОН	236200	4/30/14	280.9	3,807	C
346574238	100	I B E W LOCAL 38 PENSION PLAN	CLEVELAND	НО	238210	4/30/14	322.2	3,354	Е
510161467	001	IRON WORKERS LOCAL 17 PENSION FUND	CLEVELAND	ОН	237990	4/30/14	91.9	2,050	O
346711591	001	PIPE FITTERS LOCAL UNION NO 120 PENSION PLAN	CLEVELAND	НО	525100	12/31/13	165.5	1,870	Z
346611397	001	UNITED UNION OF ROOFERS WATERPROOFERS AND ALLIED WORKERS LOCAL NO 44 PENSION FUND	CLEVELAND	НО	238100	4/30/14	73.1	979	z
341442087	001	IBEW LOCAL 683 PENSION FUND PENSION PLAN	COLUMBUS	ЮН	238210	12/31/13	174.7	2,273	z
316129968	001	OHIO OPERATING ENGINEERS PENSION PLAN	COLUMBUS	ЮН	237990	7/31/14	2,137.0	16,389	z

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736580373	001	LABOREPS LOCAL LINION NO 158 PENSION FILIND	HABBISBIBG	PA			~	١.	
236289032	001	PENSION PLAN OF INTERNATIONAL UNION OF BRICKLAYERS ALLIED CRAFTSMEN LOCAL #15 PA			525100	6/30/14	12.2	211	S
231996365	100	PENSION PLAN OF LOCAL 47 BRICKLAYERS AND ALLIED CRAFTMAN	HARRISBURG		238100	4/30/14	2.5	253	O
236445411	001	PLASTERERS AND CEMENT MASONS LOCAL 94 PENSION FUND	HARRISBURG		238900	4/30/14	2.9	104	С
236489357	001	PLUMBERS AND PIPEFITTERS LOCAL 520 PENSION PLAN	HARRISBURG		238220	4/30/14	154.6	2,054	E
236429849	001	SUSQUEHANNA LABORERS COMBINED PENSION FUND	HARRISBURG	PA	238900	4/30/14	51.1	1,413	E
236529457	001	SHOPMEN LOCAL UNION 502 PENSION PLAN	LIMERICK	PA	525100	12/31/13	71.5	1,360	Z
256135580	001	TEAMSTERS CONSTRUCTION INDUSTRY & MISC PENSION FUND			813930	12/31/13	106.6	1,883	Z
232694291	001	NATIONAL ELEVATOR INDUSTRY PENSION PLAN	NEWTOWN SQUAR		238900	6/30/14	6,122.8	43,312	Z
256135570	001	GREATER PENNSYLVANIA CARPENTERS PENSION FUND		PA	236200	12/31/13	832.3	16,022	Е
236406511	001	ASBESTOS WORKERS PHILADELPHIA PENSION FUND			236200	6/30/14	211.9	1,854	C
231613018	001	CARPENTERS PENSION & ANNUITY FUND OF PHILADELPHIA AND VICINITY	PHILADELPHIA		238100	4/30/14	1,732.6	14,577	E
231972409	001	CEMENT MASONS UNION LOCAL 592 PENSION PLAN	PHILADELPHIA		236200	4/30/14	91.3	1,275	С
231990722	001	INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL UNION 98 PENSION PLAN	PHILADELPHIA		238210	12/31/13	291.7	4,206	Е
236529504	001	IRON WORKERS PENSION PLAN	PHILADELPHIA		525100	9/30/13	346.9	5,112	E
236235338	001	LABORERS DISTRICT COUNCIL CONSTRUCTION INDUSTRY PENSION FUND	PHILADELPHIA		525100	4/30/14	711.0	8,688	Z
231627410	003	LABORERS LOCAL 57 INDUSTRIAL PENSION PLAN	PHILADELPHIA		238900	6/30/14	205.3	3,254	Z
236405018	100	PLUMBERS LOCAL UNION NO 690 PENSION FUND	PHILADELPHIA		238220	6/30/14	148.7	1,871	E
236442844	100	PLUMBERS LU 690 METAL TRADES PENSION PLAN	PHILADELPHIA		238220	12/31/13	11.7	358	z
231494364	001	SHEET METAL WORKERS PENSION FUND OF LOCAL UNION NO 19	PHILADELPHIA		561110	4/30/14	333.2	3,914	Е
232004424	100	STEAMFITTERS LOCAL UNION NO 420 PENSION PLAN	PHILADELPHIA		238220	12/31/13	451.7	4,720	C
231609696	001	BOILERMAKERS LODGE 329 PENSION FUND	PHOENIXVILLE		238900	12/31/13	5.0	97	Z
556029961	001	BRICKLAYERS PENSION FUND OF WEST VIRGINIA		PA	238100	3/31/14	3.8	188	Z
256121713	001	BRICKLAYERS PENSION PLAN OF WESTERN PA	PITTSBURGH		238900	12/31/13	53.3	1,110	Z
256118878	001	BUILDING TRADES PENSION PLAN OF WESTERN PENNSYLVANIA	PITTSBURGH		238900	12/31/13	112.4	4,195	Е
256103481	100	CEMENT MASONS LOCAL 526 PENSION PLAN	PITTSBURGH		238900	5/31/14	47.7	829	ш
251297810	001	IBEW LOCAL 712 PENSION TRUST FUND	PITTSBURGH		525100	12/31/13	78.2	937	Z
251283169	001	IRON WORKERS PENSION PLAN OF WESTERN PENNSYLVANIA	PITTSBURGH		237990	12/31/13	172.9	3,062	E
596165107	001	IRONWORKERS LOCAL 808 PENSION FUND			238900	6/30/14	42.8	686	Z
596227518	001	IRONWORKERS LOCAL UNION NO 402 PENSION FUND	PITTSBURGH		237310	3/31/14	19.1	535	Z
256135576	001	LABORERS DISTRICT COUNCIL OF W PA PENSION FUND	PITTSBURGH		561110	12/31/13	649.2	15,682	O
256135579	001	OPERATING ENG CONS IND MISC PENSION FUND			238900	12/31/13	541.7	9,285	Z
250818080	010				813930	12/31/13	138.5	289	Z
236531755	001	PENNSYLVANIA HEAVY AND HIGHWAY CONTRACTORS PENSION TRUST	PITTSBURGH		237310	12/31/13	133.5	4,196	Е
256134758	001	PLUMBERS AND STEAMFITTERS OF NW PA PENSION FUND			238220	12/31/13	132.0	1,646	Z
256034928	001	PLUMBERS LOCAL 27 PENSION FUND			238220	12/31/13	62.7	1,016	z
256173724	001	SHOPMENS LOCAL 527 PENSION FUND		PA	238900	12/31/13	57.0	1,418	ш ;
160777031	100	SOUTHERN INCONVORKERS PENSION FOND	PILISBURGH		236200	12/31/13	15.0	1,035	2 2
250052401	000	STEAMINITIES COCAL 443 FENSION PLAN			238210	5/31/14	4.1C1 5.6	466	2 2
236265658	001	AB&GW INTLUNION AFL-CIO CLC EASTERN DIST CNCL NO 12 PENSION PLAN	N		238100	12/31/13	7.4	561	U
236648508	499	STEELWORKERS PENSION TRUST			525920	12/31/13	3,532.9	109,361	z
236423158	100	IBEW LOCAL UNION NO 607 PENSION TRUST	WILKES BARRE		238210	12/31/13	11.7	239	z
236537135	001	SHEET METAL WORKERS LOCAL #44 RETIREMENT INCOME PLAN			525100	9/30/13	16.7	485	C
236283938	001	HEAT & FROST INSULATORS & ASBESTOS WORKERS LOCAL 38 RETIREMENT PLAN	WILKES-BARRE	PA	238900	12/31/13	8.2	124	Z
056009407	001	ASBESTOS WORKERS LOCAL 31 PENSION PLAN	CRANSTON	RI	238300	12/31/13	11.1	141	Е
516098177	001	PLASTERERS & CEMENT MASONS LOCAL 40 PENSION FUND	CRANSTON		238900	6/30/14	8.8	159	Z
516095806	001	RHODE ISLAND LABORERS PENSION FUND	CRANSTON		238900	12/31/13	172.3	2,861	Е
056047049	001	RI BRICKLAYERS AMD ALLIED CRAFTSMEN PENSION FUND	Cranston		238900	9/30/13	19.2	448	Е
050499357	001	UA OF PLUMBERS & PIPEFITTERS LOCAL 51 PENSION PLAN	EAST PROVIDENCE		813930	4/30/14	104.7	1,479	U
050298773	001	I U O E LOCAL 57 PENSION PLAN	PROVIDENCE		237310	12/31/13	108.1	1,224	z
056016572	001	RHODE ISLAND CARPENTERS PENSION FUND			238300	12/31/13	141.0	2,125	Z
626112262	001	CARPENTERS LOCAL UNION NO 345 PENSION PLAN		Z F	525100	12/31/13	28.9	596	י ע
726063351	100	CEMENT MASONS LOCAL NO 567 PENSION PLAN	GOODLETTSVILLE		238100	7/31/14	2.8	159	S

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620857704	001	CEMENT MASONS LOCAL UNION NO 521 PENSION FUND	GOODLETTSVILLE	NT					N/A
596205166	001	FLORIDA CARPENTERS REGIONAL COUNCIL PENSION PLAN	GOODLETTSVILLE	NT	238300	12/31/13	261.0	8,042	Z
586110889	005	INSULATORS LOCAL NO 96 PENSION FUND	GOODLETTSVILLE	N	238900	12/31/13	14.6	202	Е
596168650	001	IRON WORKERS LOCAL #397 PENSION FUND	GOODLETTSVILLE	N	237990	12/31/13	60.5	1,082	Z
620787578	001	IRONWORKERS LOCAL UNION NO 167 PENSION PLAN	GOODLETTSVILLE	N	237990	12/31/13	50.8	627	Z
586088292	001	JOURNEYMEN & APPRENT 188 PENSION FUND	GOODLETTSVILLE	NT	238220	6/30/14	50.7	718	z
626101275	001	MIDDLE TENNESSEE CARPENTERS AND MILLWRIGHTS PENSION FUND	GOODLETTSVILLE	N N	238900	4/30/14	58.0	1,694	Z
720219840	001	NEW ORLEANS ELECTRICAL PENSION PLAN	GOODLETTSVILLE	Z	238210	12/31/13	29.0	1,355	Z
596214171	001	PENSION PLAN OF THE FLORIDA TROWEL TRADES PENSION TRUST FUND	GOODLETTSVILLE	N L	525100	12/31/13	51.2	2,245	z
586116699	001	PLUMBERS & STEAMFITTERS LOCAL 150 PENSION FUND	GOODLETTSVILLE	≥ ;	238220	12/31/13	59.0	1,174	Э:
626101288	001	PLUMBERS & STEAMFITTERS LOCAL 43 PENSION FUND	GOODLETTSVILLE	Z	238220	6/30/14	97.8	1,642	z
626104660	001	PLUMBERS LOCAL UNION NO 17 PENSION PLAN	GOODLETTSVILLE	Z	238220	3/31/14	25.4	410	z
626093256	001	SHEET METAL WORKERS LOCAL NO 177 PENSION FUND	GOODLETTSVILLE	Z	238900	12/31/13	34.6	797	z
620800645	001	SHEET METAL WORKERS LOCAL NO 4 PENSION PLAN	GOODLETTSVILLE	Z	238900	12/31/13	27.7	099	z
620976048	001		HIXSON	NT	238100	12/31/13	163.7	4,064	C
626077945	001	PLUMBERS AND STEAMFITTERS LOCAL UNION NO 102 PENSION PLAN	KNOXVILLE	Z	238220	6/30/14	20.0	712	z
626102837	001		NASHVILLE	NT	238220	3/31/14	145.4	1,815	Z
626098036	001	IRON WORKERS DISTRICT COUNCIL OF TN VALLEY AND VICINITY PENSION PLAN	SODDY DAISY	Z	525100	12/31/13	133.3	2,476	z
746183767	001	IBEW LOCAL UNION NO 479 PENSION TRUST FUND	BEAUMONT	¥	238210	12/31/13	74.1	1,556	N/A
750355302	001	HEAT & FROST & ALLIED WORKERS NO 21 PENSION PLAN	DALLAS	¥	238900	12/31/13	14.0	200	Z
741870479	001	IBEW LOCAL NO 60 PENSION	DALLAS	¥	238210	12/31/13	44.9	1,945	Z
751280827	100	LABORERS NATIONAL PENSION FUND	DALLAS	ĭ	237310	12/31/13	1,459.4	44,341	Z
756043268	001	PLUMBERS & STEAMFITTERS LOCAL 146 PENSION PLAN	FORT WORTH	¥	238220	6/30/14	32.3	268	z
746118440	001	BRICKLAYERS GULF COAST PENSION PLAN	HOUSTON	¥	238100	12/31/13	17.3	854	Z
746134999	001	CARPENTERS & MILLWRIGHTS OF HOUSTON VICINITY PENSI	HOUSTON	¥	236200	6/30/14	192.9	5,506	Z
741976110	001	CEMENT MASONS LOCAL 783 PENSION TRUST	HOUSTON	¥	813930	9/30/13	0.5	63	C
746091787	001	CEMENT MASONS LOCAL UNION 681 PENSION PLAN	HOUSTON	¥	236200	9/30/13	3.1	316	C
746174676	001	IBEW LOCAL 716 PENSION TRUST	HOUSTON	¥	238210	12/31/13	112.0	2,679	N/A
746141016	001	PLASTERERS LOCAL 79 PENSION PLAN	Houston	¥	813930	12/31/13	2.9	91	Z
741905198	001	TEXAS IRON WORKERS PENSION PLAN	HOUSTON	¥	525100	3/31/14	245.7	4,523	N/A
736130146	001	NECA-IBEW LOCAL 584 PENSION PLAN	PLANO	¥	238210	12/31/13	23.5	820	Z
746181280	001	U A P LOCAL 142 PENSION PLAN	PLANO	¥	238220	6/30/14	94.4	1,327	Z
746213086	001	IBEW LOCAL UNION NO 527 PENSION PLAN	TEXAS CITY	¥	238210	12/31/13	8.4	621	N/A
876124266	001	INTERMOUNTAIN IRONWORKERS PENSION TRUST	SALT LAKE CITY	5	525920	5/31/14	168.7	3,200	z
876127884	001	UTAH LABORERS PENSION TRUST FUND	SALT LAKE CITY	T	525100	12/31/13	10.4	331	z
876156446	001	UTAH SHEET METAL PENSION TRUST	Salt Lake City	5	525100	6/30/13	119.6	1,252	z
526152779	001	PLUMBERS AND PIPEFITTERS NATIONAL PENSION FD	ALEXANDRIA	₹ .	525100	6/30/14	5,603.6	151,703	ш (
525112453	100	SHEET INTERIAL WORKERS NATIONAL PENSION FOND INTERNATIONAL ASSOCIATION OF BRIDGE STRUCTURE ADMINISTRAL 8: BEINEORGING IDONIVIOR REBS 1 11 NO	FAIRFAX	AV X	232000	12/31/13	3,853.8	135,850	ی ر
546127076	001	TIDEWATER FIFCTRICAL INDICATE PENSION FIND		ζ ×	237330	12/31/13	34.6	815) Z
546112218	001	IRON WORKERS NO 28 PENSION FUND	ROANOKE	Α\	238900	12/31/13	31.4	632	O
546117299	100	LABORERS DISTRICT COUNCIL OF VIRGINIA PENSION TRUST FUND	ROANOKE	۸۸	238900	12/31/13	23.5	726	z
546111015	100	LABORERS PENSION FUND	ROANOKE	۸۸	238900	9/30/13	12.0	340	Z
540927040	001	NORTH CAROLINA CARPENTERS PENSION FUND	ROANOKE	۸۸	238900	6/30/14	8.3	241	Z
036021153	001	PLUMBERS & PIPEFITTERS LOCAL 693 DEFINED BENEFIT PENSION PLAN	SO. BURLINGTON	VI	238220	4/30/14	24.4	417	Z
916028298	001	ALASKA LABORERS-EMPLOYERS RETIREMENT FUND	SEATTLE	WA	237990	6/30/14	525.6	5,878	S
526103810	001	ALASKA PLUMBING & PIPEHTTING INDUSTRY PENSION PLAN	SEATTLE	WA	238220	12/31/13	248.7	1,707	Z
916091466	001	BAC LOCAL NO 1 WASHINGTON PENSION TRUST	SEATTLE	WA	238100	12/31/13	81.6	1,418	Z
916029051	001	CARPENTERS RETIREMENT PLAN OF WESTERN WASHINGTON	SEATTLE	WA	238100	12/31/13	1,284.5	17,618	Z
916066773	001	CEMENT MASONS AND PLASTERERS RETIREMENT PLAN	SEATTLE	WA	238100	3/31/14	229.5	1,914	z
936075580	001	DEFINED BENEFIT PENSION PLAN OF AGC-IUOE LOCAL 701 PENSION TRUST FUND	SEATTLE	WA	238900	12/31/13	265.3	4,908	z
916028571	001	LOCALS 30.2 & 61.2 OF THE TOOL -EMPLOYERS CONSTRUCTION INDUSTRY	SEATILE	WA	238900	12/31/13	2,225.0	17,931	z
916123688	001	NORTHWEST IRONWORKERS RETIREMENT PLAN	SEATTLE	WA	332300	6/30/14	425.5	6,665	л 2
Ατοτφηρέο	TOO	PUGET SUUND ELECTRICAL WORKERS PENSION PLAIN	SEAT ILE	WA	738ZIU	5/31/14	0.1.60	5,788	2

EIN	PLAN	PLAN NAME	CITY	STATE	NAICS P	PLAN YEAR END	ASSETS (\$M) PARTI	PARTICIPANTS	PPA STATUS
920120866	100	SOUTHERN ALASKA CARPENTERS RETIREMENT PLAN	SEATTLE		236200	12/31/13	141.0	2,309	z
916029141	001	WA STATE PLUMBING AND PIPEFITTING INDUSTRY PENSION PLAN	SEATTLE		238220	12/31/13	8.889	8,454	N/A
916123988	100	WA-ID LABORERS EMPLOYERS PENSION TRUST	SEATTLE	WA 2	236200	5/31/14	141.2	3,378	z
916123986	100	WASHINGTON-IDAHO CEMENT MASONS EMPLOYERS RETIREMENT TRUST FUND	SEATTLE		238100	5/31/14	24.6	914	O
916022315	100	WESTERN WASHINGTON LABORERS- EMPLOYERS PENSION PLAN	SEATTLE		236200	12/31/13	770.5	14,696	z
916070237	100	ENGINEERS AGC RETIREMENT TRUST OF THE INLAND EMPIRE	SPOKANE		237310	12/31/13	170.1	3,862	z
916075538	100	IDAHO OPERATING ENGINEERS - EMPLOYERS PENSION PLAN	SPOKANE		237310	6/30/14	115.7	3,394	z
916068929	001	LABORERS AGC PENSION TRUST OF MONTANA	SPOKANE		236200	3/31/14	127.4	3,196	Z
916123987	001	WA-ID-MT CARPENTERS EMPLOYERS RETIREMENT TRUST	SPOKANE	WA 2	237990	6/30/14	236.8	7,685	E
396198530	100	WISCONSIN LABORERS PENSION FUND	DEFOREST	WI 2	236200	8/31/13	492.1	880'6	S
396079856	100	NORTH CENTRAL STATES REGIONAL COUNCIL OF CARPENTERS PENSION FUND	EAU CLAIRE		238100	12/31/13	1,072.4	16,771	Е
516049409	001	BUILDING TRADES UNITED PENSION TRUST FUND MILWAUKEE AND VICINITY	ELM GROVE		236200	5/31/14	1,825.4	26,869	Е
391084647	005	PLUMBERS STEAMFITTERS AND APPRENTICES LOCAL 206 FOND DU LAC WI PENSION PLAN	FOND DU LAC	WI 5	525100	12/31/13	51.0	865	Z
390542913	001	PLUMBERS & STEAMFITTERS 298 JURISDICTION PENSION PLAN	KAUKAUNA		238220	12/31/13	70.3	1,052	E
396187966	001	PLUMBERS & STEAMFITTERS LOCAL 118 PENSION PLAN	Kenosha	WI 2	238220	12/31/12	54.9	684	Z
396185236	001	OPERATIVE PLASTERERS AND CEMENT MASONS LOCAL 204 PENSION FD	MADISON	WI 2	236200	4/30/14	28.2	549	E
396185238	001	WISCONSIN MASONS PENSION FUND	MADISON		236200	5/31/14	138.8	2,955	C
510167810	001	TRUSTEES OF INTL ASSN OF HEAT & FROST INSULATORS & ASBESTOS WORKERS LOCAL 127 PENSION FUND	MILWAUKEE	WI 2	237990	7/31/14	24.1	249	E
516035231	005	PAINTERS LOCAL UNION 802 RETIREMENT PLAN	SUN PRAIRIE	WI 2	238300	4/30/14	30.7	581	С
391291994	005	ELECTRICAL CONSTRUCTION INDUSTRY PENSION PLAN	WAUWATOSA		238210	5/31/14	319.2	4,080	Z
366147407	001	FOX VALLEY & VICINITY CONSTRUCTION WORKERS PENSION FUND	WAUWATOSA	WI E	525100	5/31/14	175.7	2,230	Z
363119818	003	IRON WORKERS LOCAL 498 DEFINED BENEFIT PLAN	WAUWATOSA	i M	525100	12/31/13	20.0	459	O
366218129	100	LAKE COUNTY PLASTERERS & CEMENT	WAUWATOSA		238100	5/31/14	23.5	377	Z
316171213	001	SHEET METAL WORKERS LOCAL 98 PENSION FUND	CHARLESTON		525100	12/31/13	98.6	1,599	E
556026775	001	WEST VIRGINIA LABORERS PENSION TRUST FUND	CHARLESTON		525100	3/31/14	305.9	7,353	Z
556069713	001	BRICKLAYERS LOCAL UNION NO 5 PENSION PLAN	DAVISVILLE	WV 2	238100	6/30/14	1.0	69	C
556015364	001	INTERNATIONAL UNION OF OPERATING ENGINEERS LOCAL 132 PENSION FUND	HUNTINGTON	WV E	525100	3/31/14	268.8	3,745	Z
616043094	001	BRICKLAYERS LOCAL NO 1 OF KY PENSION TRUST FUND	ONA	WV 2	238900	12/31/13	16.2	762	С
556027998	001	CARPENTERS PENSION FUND OF WEST VIRGINIA	ONA	WV 5	525100	12/31/13	237.5	3,001	C
556029095	001	PLUMBERS & PIPEFITTERS LOCAL 152 PENSION TR FUND	ONA	WV 5	525100	4/30/14	41.0	909	Е
556039031	001	UNITED ASSN OF PLUMBERS AND STEAMFITTERS 521 PENSION FD	ONA	WV 5	561110	6/30/14	23.8	616	Е
550463652	001	PLUMBERS & STEAMFITTERS LOCAL 83 PENSION FUND		WV 5	525100	12/31/13	27.6	463	N/A
836011320	001	OPERATING ENGINEERS LOCAL 800 & WYOMING CONTRACTORS ASSOCIATION INC PENSION PLAN FOR WYOMINI			237310	12/31/13	29.9	1,107	C
836013705	001	WYOMING CARPENTERS PENSION PLAN	CASPER	WY 2	236200	12/31/13	0.2	364	С