# Risk Transfer Study Plan Years 2009 – 2013

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# Risk Transfer Analytics Study

- Risk Transfer
  - To plan participants through payment of lump sums
  - To insurance companies through purchase of annuities
  - Standard terminations ultimate form of risk transfer

- Study identified plans that appear to have executed Risk Transfer Events (RTEs) by
  - Large numbers of lump sum payments
  - Bulk purchases of annuities





## **Source Data**

### Listing of Form 5500 Filings

- Study based on listing of Form 5500 data compiled by PBGC for years 2009 – 2013
- The listing contains a total of 3,590 plans with over 1,000 participants
  - Including 911 cash balance plans





# **Validation Data**

- Risk transfer criteria were validated against a database of recent RTEs compiled by PBGC from publicly available sources
  - Press releases
  - Newspaper articles





#### Overview

- Criteria to determine that RTE occurred
  - Large numbers of participants receiving lump sums
  - Marked decreases in terminated vested participant counts
  - Marked decreases in retiree counts
- Criteria were designed such that they
  - Hold true for most plans on PBGC RTE database
  - Are relatively rare occurrences for plans in Source Data





### Lump Sum Criterion

- Criterion designed to exclude routine lump sum payments in cash balance plans
- Satisfied for a given year if 1) OR 2) below is true
  - 1. Lump sum percentage (number of lump sums divided by sum of active and Terminated Vested (TV) counts) is at least 25%
  - 2. Lump sum percentage is at least 10% and is at least 5 times the median lump sum percentage for the plan





- Terminated Vested Count Criterion
  - Satisfied for a given year if decrease in terminated vested count during year is at least 30%
- Retiree Count Criterion
  - Satisfied for a given year if decrease in retiree count during year is at least 10%





## Terminations and Final Filings with Spin-offs

- Final Form 5500 filing may be due to plan termination or spin-off to an ongoing plan
  - Final filing shows all participant counts at year end as zero
- In order to avoid counting a spin-off to an ongoing plan as a RTE, we excluded events if
  - 'Final Filing' box on the Form 5500 was checked and
  - Schedule H indicated that assets were transferred to another plan and
  - The plan did not qualify as a RTE under the lump sum criterion
- This check resulted in elimination of 233 plans from RTE count
- Final filings that did not have asset transfer and that satisfied risk transfer criteria represent plan terminations and were counted as RTEs





#### Impact of Partial Spin-Offs

- Of the events that initially satisfied risk transfer criteria, approximately 80 involved a partial transfer to another plan with no 'Final Filing' check but non-zero transfer of assets. Such events could represent
  - A spin-off
  - A risk transfer followed by, or combined with, a spin-off
  - A spin-off followed by a risk transfer (for example, a termination) of the receiving plan
- Further adjustment using information from financial statement disclosures was made to initial results for spin-offs
  - Events that represented a spin-off alone excluded entirely
  - For events that represented a combination of a spin-off and RTE, only the drop associated with the RTE was counted





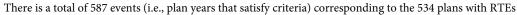
# **Risk Transfer Incidence Rates**

	Total	With RTEs	5 Year Risk Transfer Rate
All Plans (1000+ Ps)	3590	534	14.9%
Cash Balance Plans	911	145	15.9%
Collectively Bargained (CB) Plans	971	135	13.9%
Non-CB plans	2619	399	15.2%

Only plans with 1,000+ participants are counted in analysis.

Plan included if it had 1,000 or more participants for any of the years 2009 through 2013.

Standard Terminations – Based on PBGC's records for case closed date between January 2009 and November 2014, 50 of the 534 plans that had RTEs were determined to have gone through a standard termination.

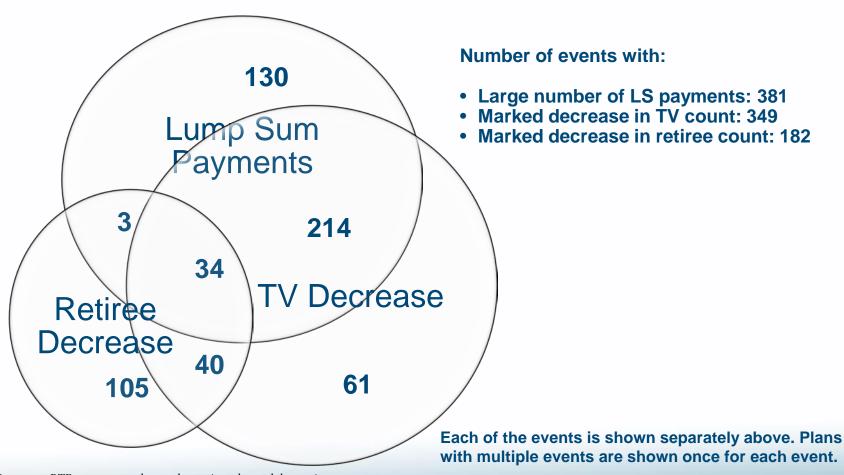






## Results

#### Estimated Events by Risk Transfer Criteria



Many more RTEs were targeted towards terminated vested than retirees.

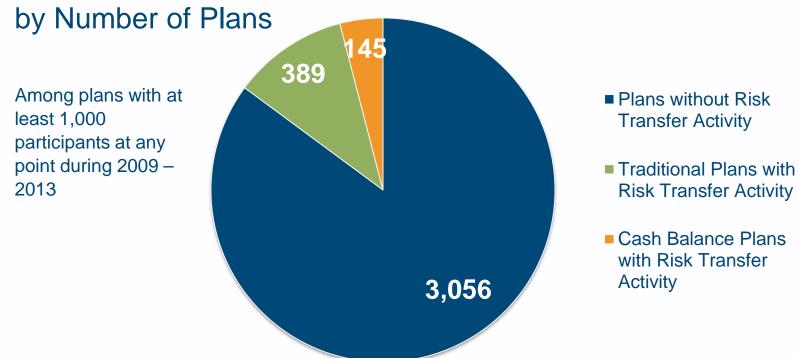
In 2012, Treasury issued Private Letter Rulings (PLRs) to two large employers giving them the green light to pay lump sums to retirees in pay status. Since then,

Treasury issued only a few other such PLRs granting the payment of lump sums to retirees in payment status. In July 2015, Treasury Issued Notice 2015-49 prohibiting the payment of lump sums to retirees in pay status.

The diagram above shows that even in the period under study when retiree lump sums were permitted, most of the retiree risk transfer events did not involve lump sums, i.e., they involved the purchase of annuities from an insurer.



# Estimated Risk Transfer Activity in Large Plans (2009 – 2013)



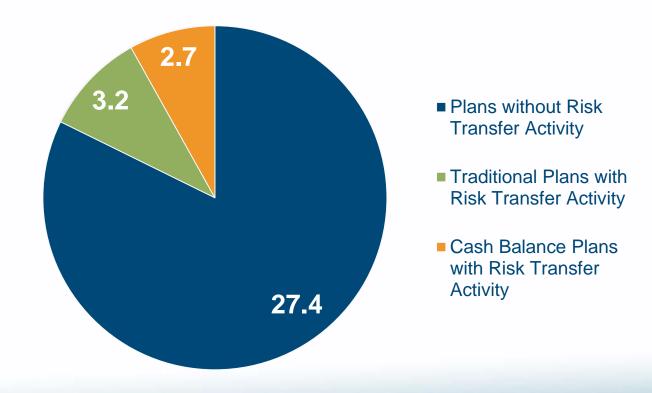




# **Estimated Risk Transfer Activity** in Large Plans (2009 - 2013)

by Plan Participant Count (in millions)

Among plans with at least 1,000 participants at any point during 2009 -2013. Count shown is the median participant count during 2009 – 2013



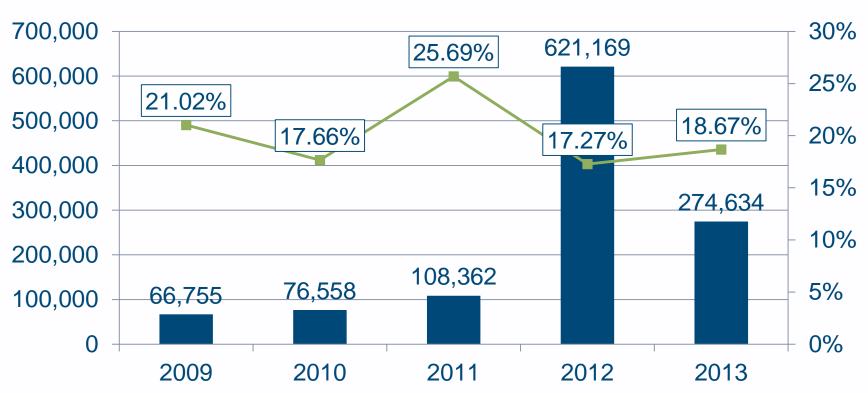
RTEs covered 17.7% (5.9/33.3) of participants over the period. This count is higher than RTE for 14.9% of plans seen from previous slide. This suggests that plans with risk transfer events are larger than plans without such events.

As a matter of fact, plans with RTEs have an average participant size of about 11,000 (5,900,000/534).



# Impact of Estimated Risk Transfer Activity

Estimated Count & Percentage Decrease in Participants due to Risk **Transfers** 



Bars show decrease in participant count for plans with a risk transfer. Drop in count is the sum of a) drop in TV count for plans that meet either the LS or TV criterion and b) drop in retiree count for plans that meet the retiree criterion. Line shows percentage decrease in count. It is measured as the count drop from the bars divided by the beginning of year count for all plans with risk transfer activity.

This slide shows the significant impact that RTEs can have in reducing the plan size.



For 2012 for example, plan size was reduced on average by 17% for plans that had a RTE and the total drop in participant count for all plans with a RTE in 2012 was 621,169.



# Impact of Estimated Risk Transfer Activity

Estimated Count & Percentage Decrease in Participants due to Risk Transfers for Collectively Bargained Plans



Bars show decrease in participant count for collectively bargained plans with a risk transfer. Drop in count is the sum of a) drop in TV count for plans that meet either the LS or TV criterion and b) drop in retiree count for plans that meet the retiree criterion. Line shows percentage decrease in count. It is measured as the count drop from the bars divided by the beginning of year count for all plans with risk transfer activity.





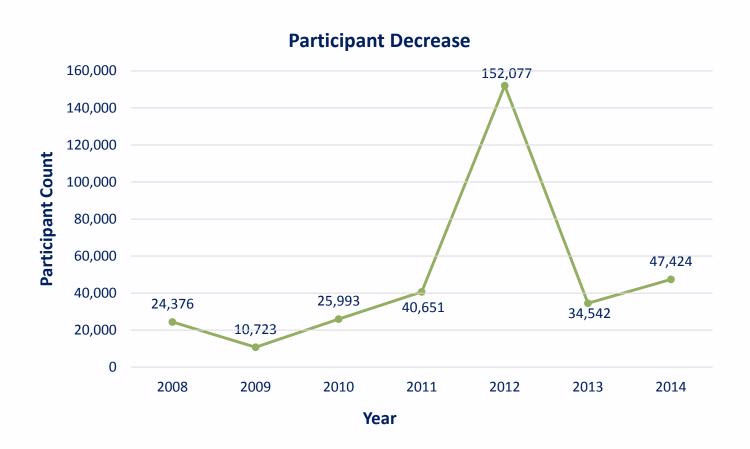
# **Top 20 RTEs versus Total 2009 – 2013**

	Top 20 Events	All RTEs
Assets	\$140 Billion	\$365 Billion
Participants BOY	1,937,924	6,240,004
Terminated Vested Reduction	218,328	807,906
Retiree Reduction	195,641	338,572
Total Participant Reduction	413,969	1,147,478
Reduction as % of Participants BOY	21%	18%





## **Top 5 Standard Terminations by Year of Termination**



Participant counts for standard terminations based on employers' PBGC termination filings





# Standard Terminations by Plan Year

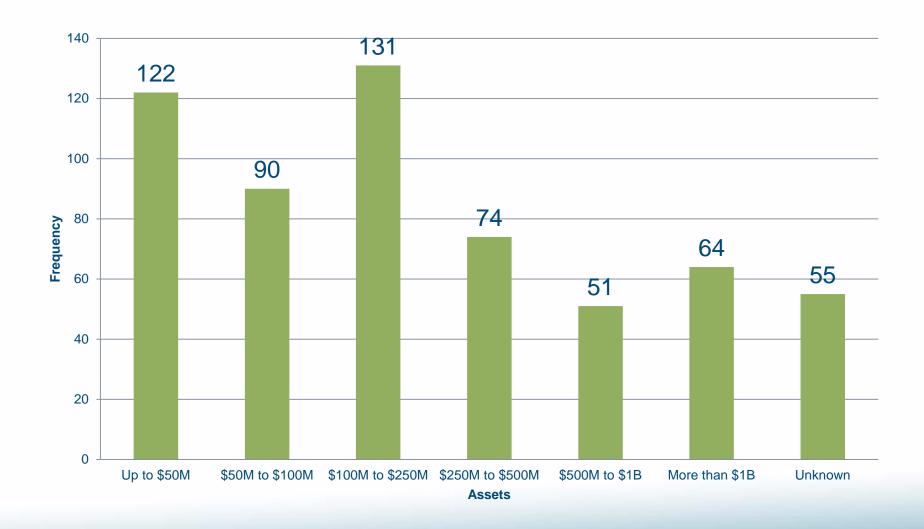
Standard Terminated Plans (300+ participants) as Percent of All Standard Terminated Plans







# **Estimated RTEs by Asset Level**

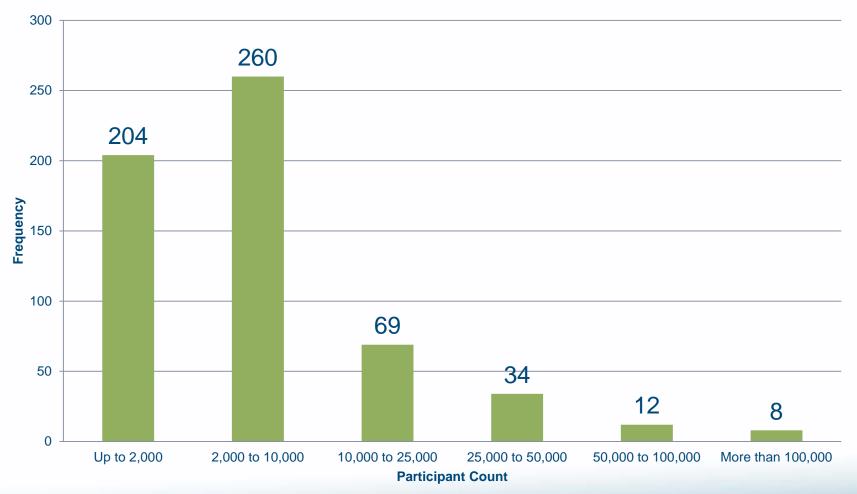






# **Estimated RTEs by Participant Count**

(as of the beginning of the year of the event)

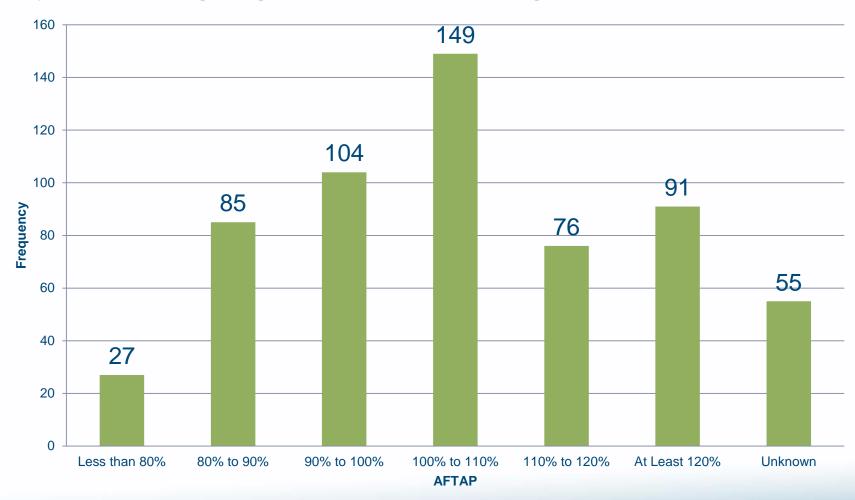






# **Estimated RTEs by AFTAP**

#### \*Adjusted Funding Target Attainment Percentage







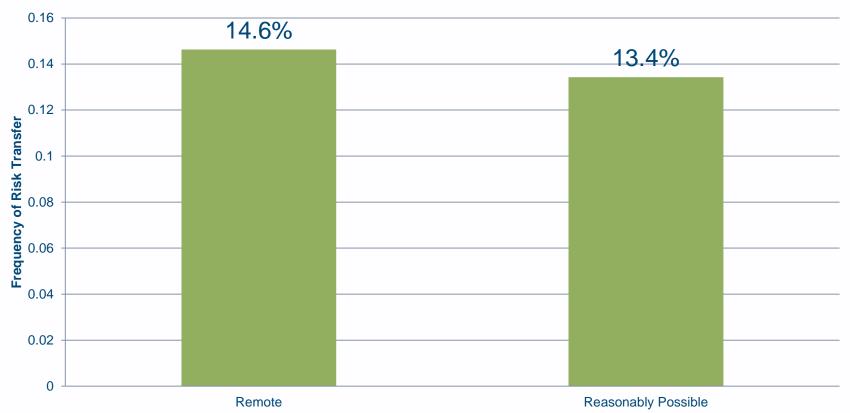
# **Estimated RTEs by Plan Year**







# Frequency of Risk Transfer by **PBGC Financial Statement Classification**



#### **Financial Statement Classification**

Liabilities for Reasonably Possible (RP) companies are not booked but are disclosed in footnotes to PBGC's Annual Financial Statement. Companies in PBGC's monitoring inventory not in liquidation proceedings or in the process of being considered for distress or PBGC initiated termination AND not classified as RPs are classified as Remote.

A company is classified as Reasonably Possible if it has \$50M or more in Unfunded Vested Liability (PBGC Premium basis) and meets one of the following criteria: Has a below investment grade (lower than BAA3 Moody's or BBA- Standard and Poor's); Has a DUNS Financial Stress Score below 1477. Is in Chapter 11 bankruptcy; Has missed minimum funding or applied for a minimum funding waiver; Is otherwise showing financial difficulties. RTEs were only slightly less likely in RP plans (plans that might pose a risk to PBGC) than in plans classified as Remote (plans unlikely to pose a risk to PBGC).



## Sensitivity to Lower Thresholds

- Study thresholds
  - Lump Sums as proportion of participants 25%
  - Terminated vested count decrease 30%
  - Retiree count decrease 10%
- We tested impact of modifying thresholds to
  - Lump Sums as proportion of participants 20%
  - Terminated vested count decrease 25%
  - Retiree count decrease 7.5%
- Modified thresholds would have increased RTEs
  - From 587 to 657 or 12%



## **Observations**

- Of 3,590 large plans, 534 (or 15%) appeared to have RTEs during 2009 – 2013
- From 2009 2013 there was reduction of 1.1 million participants (of about 33.3 million participants) due to risk transfer
  - Most of the reduction is in non-collectively bargained plans (947,000 of 1.1 million participants)
- Very few risk transferring plans were involved in immediate standard plan terminations (50 of 534 plans)
  - However, the standard terminations were concentrated in the largest plans and led to a large associated participant drop
- Average drop in participant count for plans with RTEs of 18%



# **Observations – Pattern of RTEs**

- Focused more on TVs than retirees (349 events versus 182)
- Only slightly less likely in RP plans that might pose a risk to PBGC than plans classified as Remote (13.4% versus 14.6%)
- About equally common between collectively bargained (CB) and non-CB plans
  - However total and percent decreases in participants for non-CB plans were much greater than for CB plans
- About equally prevalent between traditional and cash balance plans
- More prevalent in larger plans average size of plan with risk transfer is 30% greater than without (11,000 participants versus 9,000)
- 9 of the top 10 retiree-only risk transferring plans involved annuity purchase without plan termination



# Observations – RTEs by Year

 Press data indicates likely high level of RTE activity in 2014 and 2015 (through September 2015)

 We believe Study criteria result in a conservative estimate of extent of risk transfer activity; actual activity likely to be greater

