Butch Lewis Act

Landmark Legislation To rescue union pensions



Multiemployer Pensions

Pension deficit = \$600 billion

3.2 million workers in insolvent plans

1.3 million in Critical & Declining status

(funded status below 65%)



Concentration of the Problem

Three multiemployer pension plans account for most of the unfunded liability of all failing plans Teamsters 17.2bn Central States Bakery and Confectionery 3.2bn Union United Mine 2.4bn Workers All Other 13.6bn

12bn

14bn

16bn



6bn

8bn

10bn

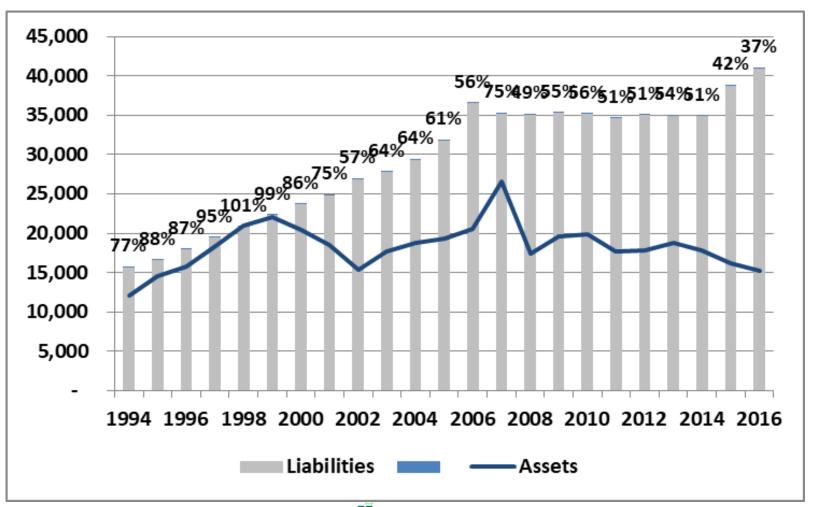
4bn

2bn

0bn

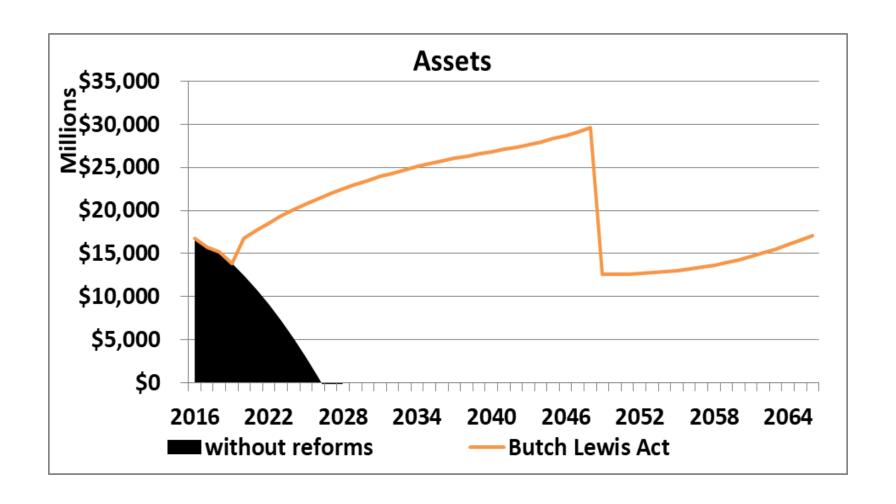
18bn

Central States Funded Ratio



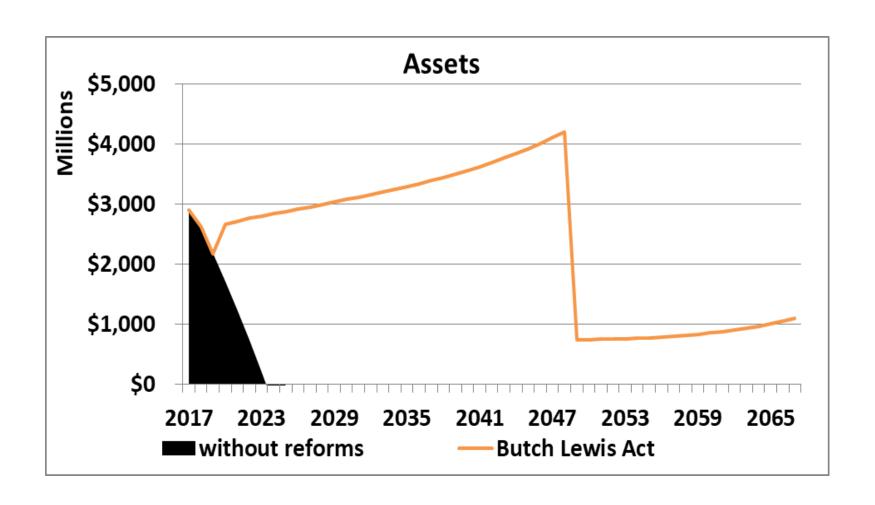


Central States





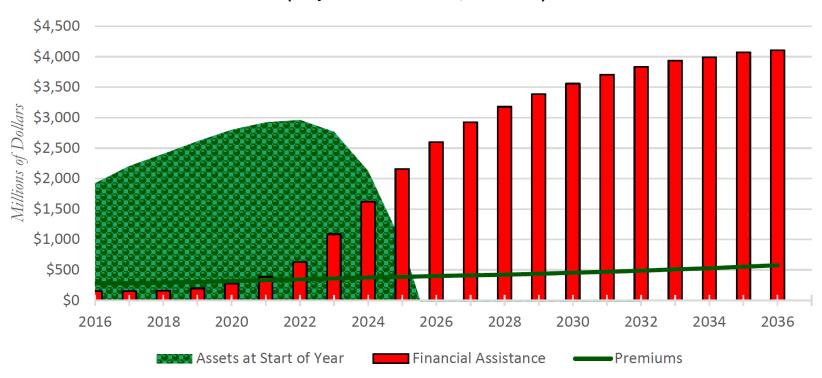
United Mine Workers





PBGC 2016 Projections Report

PBGC Assets, Average Assistance Payments and Premiums by Fiscal Year No Future MPRA Suspensions / Partitions (Projected in Nominal \$ Amounts)





How Did We get Here?

- Focused on Assets ROA instead of Liabilities
- Two Stock Market Crashes between 2001-2009
- Federal Laws and Regulations
- Industry De-Regulation
- Shifting Demographics
- Growing Investment Risk



Possible Options to Solve the Crises

- Superior Investment Returns
 - Funds like Central States would have to earn 20%+ each and every year
- MRPA Benefit Suspensions
 - Maximum benefit cuts for most of the plans in critical and declining status are not enough to maintain solvency
- Increased Employer Contributions
 - Central State Employers already contribute \$18,000 annually per active worker
- PBGC Premium Increases



PRA

Pension Rehabilitation Administration (PRA) and PRA Trust Fund

Structure Agency in the Dept. of the U.S. Treasury

Mission Provide 30-year loans to multiemployer defined

benefit plans in "critical and declining" funding status

(funded ratio < 65%, probable insolvency in 20 years)

so as to avoid insolvency for at least 30 years

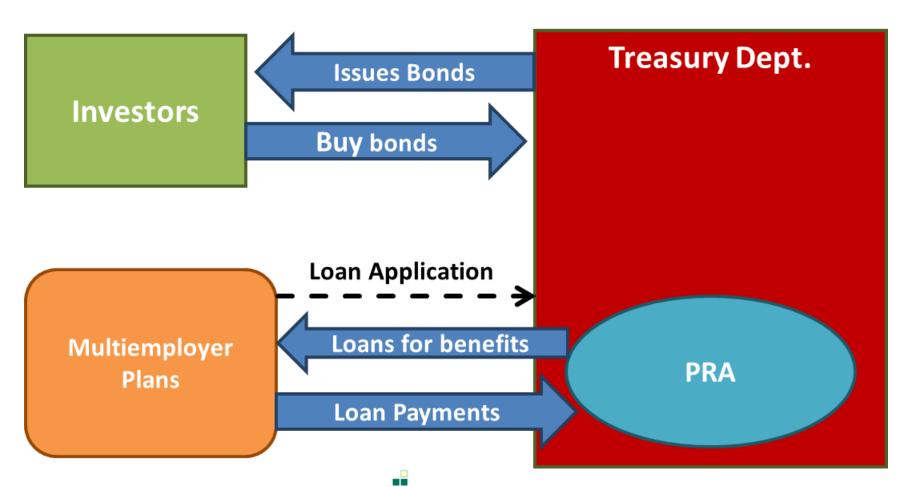
Trust Fund Mandates loan proceeds used to defease Retired Lives

benefit payments through either:

Insurance Annuities Duration Matching Cash Flow Matching



Butch Lewis Act



PRA Loan

30-year loan to qualified pensions at U.S. Treasury like rate Calculated as amount needed to defease Retired Lives thru:

- 1. Cost of a Insurance Annuity or
- 2. Cost of U. S. Treasury STRIPS (zero-coupon bonds)

Example: Retired Lives benefit payments

\$1 billion (future value)

\$750 million (present value)

PRA Loan = \$750 million



Defeasance

A method that sets aside funds dedicated to funding a certain debt or obligation with some certainty.

Bonds and annuities are chosen as the funding choice since they have a known cash flow or future value.

Examples: State Lotteries

Pension benefits

Municipal bond debt service



Insurance Annuities

Transfer of Retired Lives liabilities to insurance company.
Removes potential Retired Lives liability from PBGC
Guarantees timely payment of benefits

Problems:

Credit worthiness of one insurance company Could be quite costly:

Price Retired Lives at U.S. Treasury STRIPS discount rates (Some use U.S. Treasury STRIPS – 20 basis points)

Fee = @ 4% above present value of liabilities using STRIPS



Duration-Matching Liabilities

Hedging strategy
Well diversified in credit worthiness
Popular de-risking strategy for pensions
Attempts to match average duration of liabilities
Attempts to match present value growth rate of liabilities

Problems:

Present value focus

Duration is a measurement of price returns *not* total returns
Duration peaks out @15 years...requires Treasury STRIPS
Duration-Matching does not match liability future values
Duration-Matching does not fund liabilities
May not be cost effective



Cash Flow Matching

Cost Optimization Model Searches universe of investment grade bonds Model runs several iterations to fund each benefit payment at low cost

Reduces Funding Costs: @ 16% vs. STRIPS (Amount of PRA loan)

@ 20% vs. Annuities

Reduces ROA needed to fund Active Lives + PRA loan (18% est.)

Problems:

Tedious to implement Requires sophisticated cash flow modeling



Asset Exhaustion Test

Calculates *economic* Return On Assets (ROA) needed to fully fund Active Lives + PRA Loan (does not replace actuarial ROA)

Goal is to reduce asset hurdle rate (ROA) from existing actuarial ROA to economic calculated ROA

Reduced economic ROA = enhances long term solvency



Sample Pension

Retired Lives (Benefit Payments thru 2067) \$4,947,304,615

1. Cost to Defease (U.S. Treasury STRIPS) \$3,584,240,817
Calculated amount of PRA loan

2. Cash Flow Matching (Cost to Defease) \$3,249,613,911
Cost Savings to fund Retired Lives \$334,640,156
9.336%

3. Asset Exhaustion Test
ROA used by Actuary 8.50%
ROA needed to fully fund Active Lives + PRA loan 6.15%

Note: cost savings added to current assets



Bailouts

	Spent	Profit
TARP	\$411.0b	\$15.6b
FNMA/FHLMC	\$187.5b	\$37.9b
Fed Investing		\$294.0b
AIG		\$22.7b
BAC/Citigroup	\$250.5b	\$22.3b

