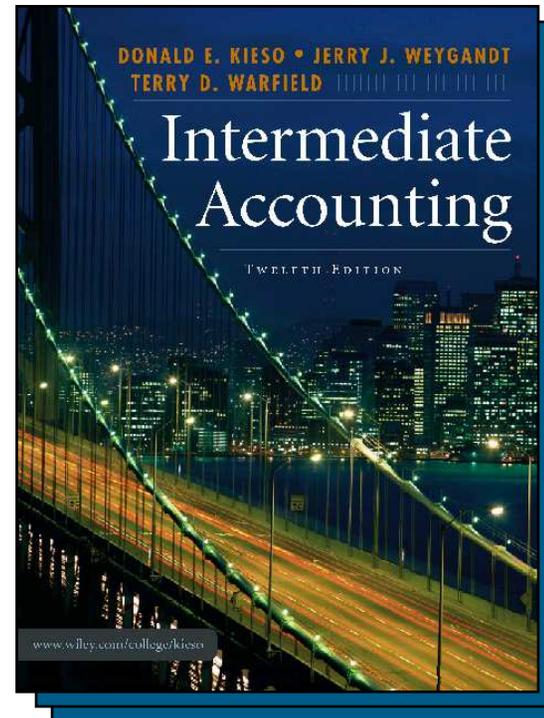


Accounting for Pensions and Other Postretirement Benefits

Chapter 20

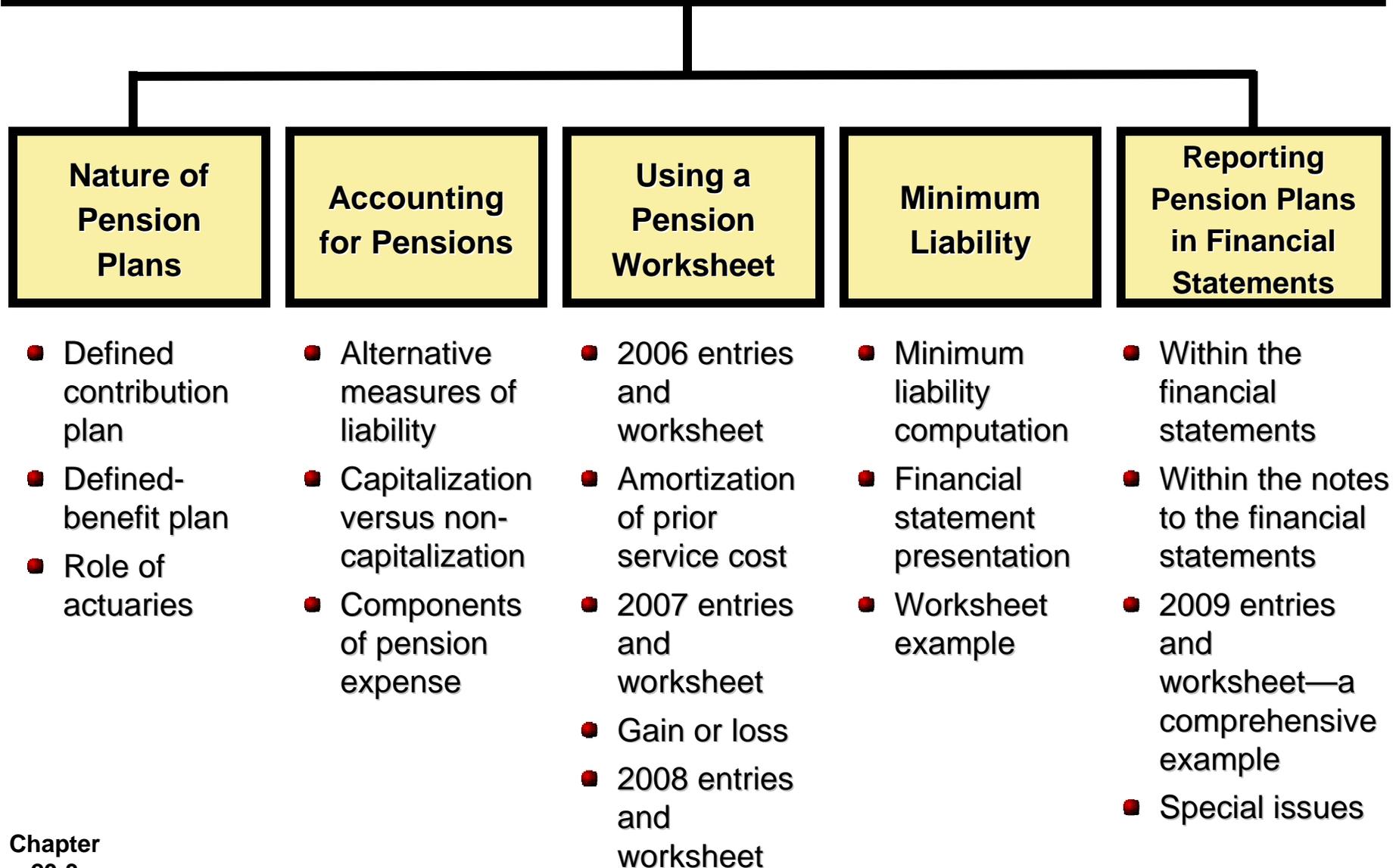
Intermediate Accounting
12th Edition
Kieso, Weygandt, and Warfield



Learning Objectives

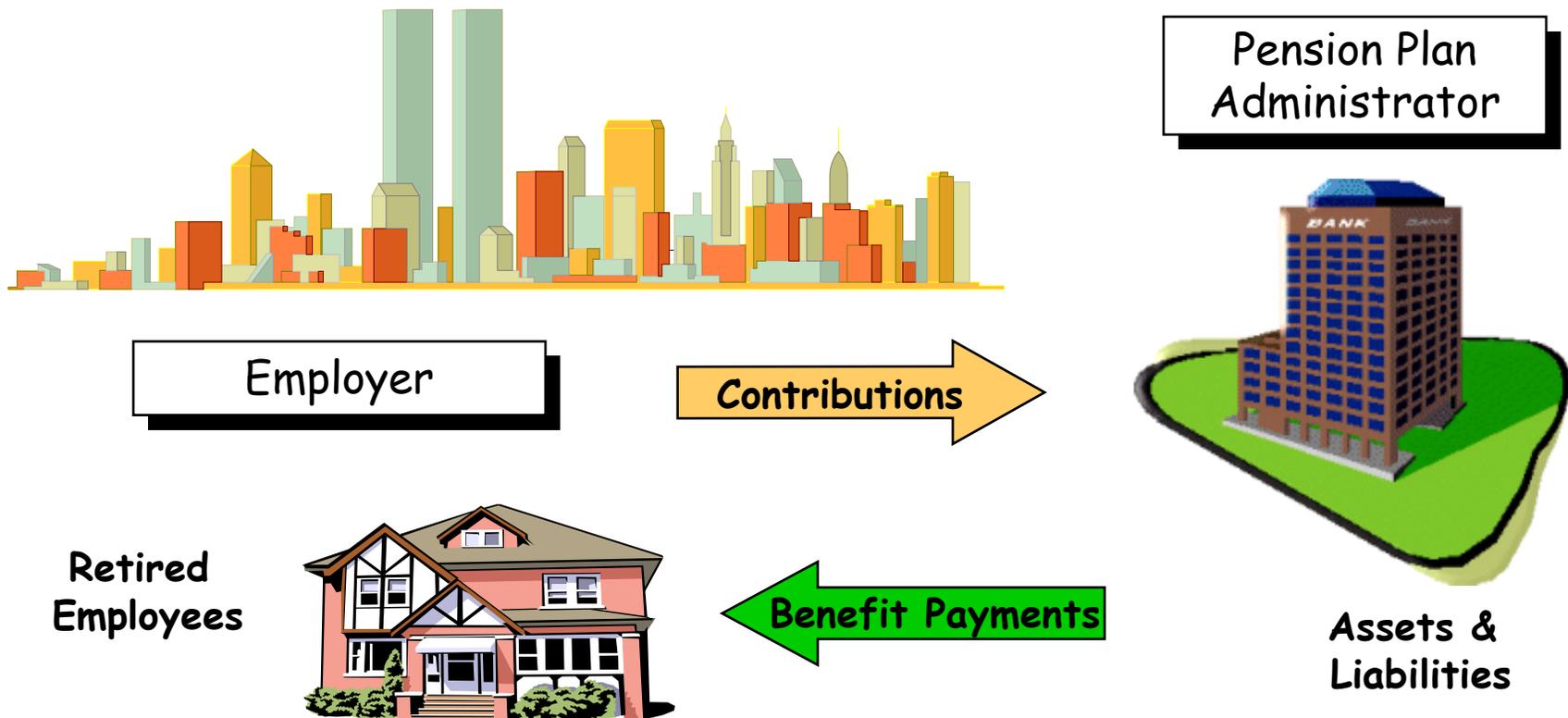
1. Distinguish between accounting for the employer's pension plan and accounting for the pension fund.
2. Identify types of pension plans and their characteristics.
3. Explain alternative measures for valuing the pension obligation.
4. List the components of pension expense.
5. Use a worksheet for employer's pension plan entries.
6. Describe the amortization of unrecognized prior service costs.
7. Explain the accounting procedure for recognizing unexpected gains and losses.
8. Explain the corridor approach to amortizing unrecognized gains and losses.
9. Explain the recognition of a minimum liability.
10. Describe the requirements for reporting pension plans in financial statements.

Accounting for Pensions and Postretirement Benefits



Nature of Pension Plans

A **Pension Plan** is an arrangement whereby an employer provides benefits (payments) to employees after they retire for services they provided while they were working.



Nature of Pension Plans

Some pension plans are:

- **Contributory:** employees voluntarily make payments to increase their benefits.
- **Noncontributory:** employer bears the entire cost.
- **Qualified pension plans:** offer tax benefits.

Pension fund should be a separate legal and accounting entity.

Types of Pension Plans

Defined-Contribution Plan

- Employer contribution determined by plan (fixed)
- Risk borne by employees
- Benefits based on plan value

Defined-Benefit Plan

- Benefit determined by plan
- Employer contribution varies (determined by Actuaries)
- Risk borne by employer

Actuaries estimate the employer contribution by considering mortality rates, employee turnover, interest and earning rates, early retirement frequency, future salaries, etc.

Statement of Financial Accounting Standard No. 87,
"Employers' Accounting for Pension Plans," 1985

Accounting for Pensions

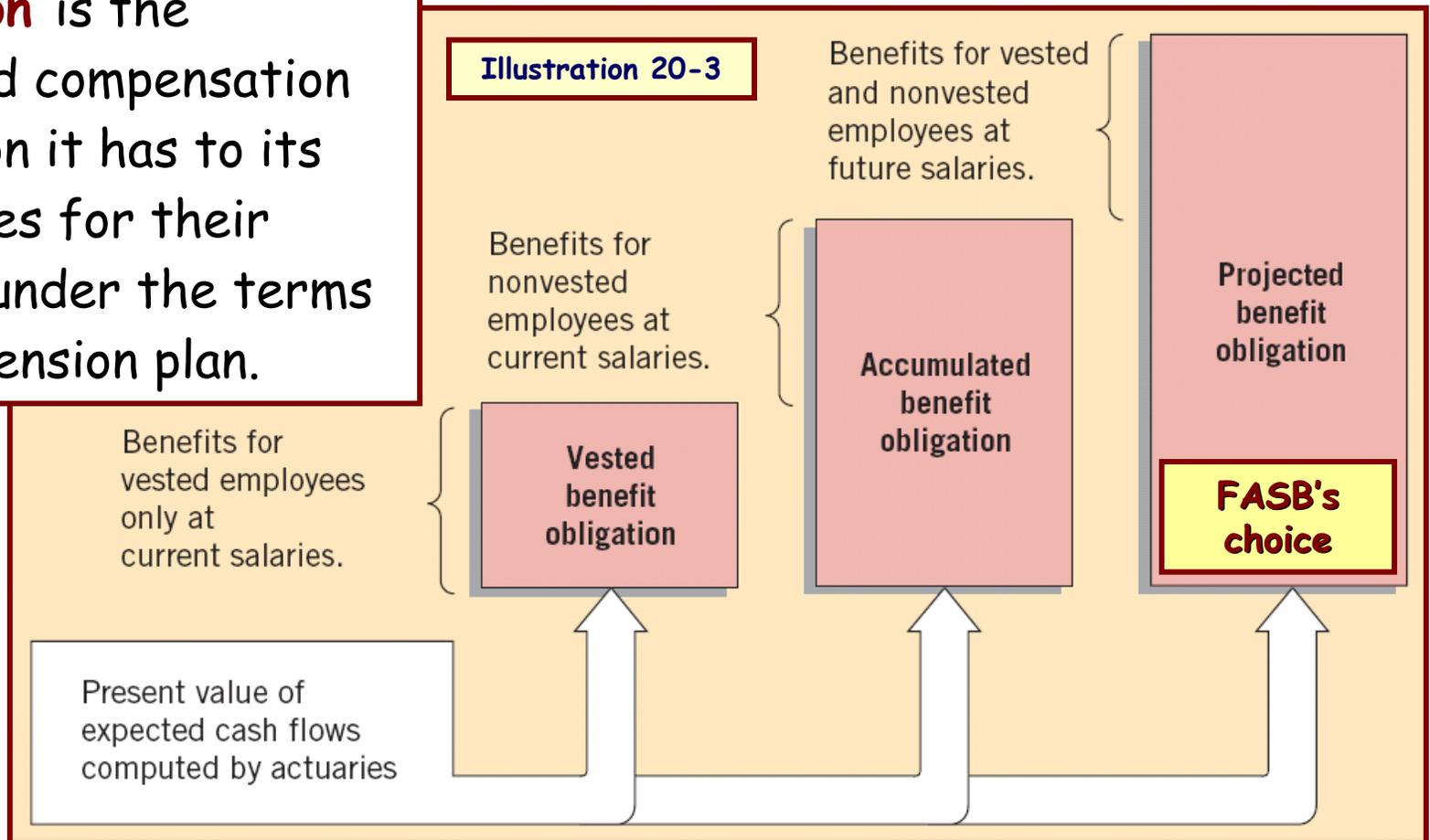
Two questions:

- (1) What is the pension obligation that a company should report in the financial statements?
- (2) What is the pension expense for the period?

Accounting for Pensions

The employer's **pension obligation** is the deferred compensation obligation it has to its employees for their service under the terms of the pension plan.

Alternative measures of the Liability



Accounting for Pensions

Capitalization versus Noncapitalization

FASB Statement No. 87 represents a compromise that combines some of the features of capitalization with some of the features of noncapitalization.

Companies **do not** capitalize some elements of the pension plan in the accounts and the financial statements.

Accounting for Pensions

Components of Pension Expense

Effect on
Expense

1.	Service Costs	+
2.	Interest on Liability	+
3.	Actual Return on Plan Assets	+/-
4.	Amortization of Unamortized Prior Service Costs	+
5.	Gain or Loss	+/-

Accounting for Pensions

Components of Pension Expense

Effect on
Expense

1.

Service Costs

+

Actuarial present value of benefits attributed by the pension benefit formula to employee service during the period.

Accounting for Pensions

Components of Pension Expense

Effect on
Expense

2.

Interest on Liability

+

Interest for the period on the **projected benefit obligation** outstanding during the period.

The interest rate (**settlement rate**) should reflect the rate at which companies can effectively settle pension benefits.

Accounting for Pensions

Components of Pension Expense

Effect on
Expense

3.

Actual Return on Plan Assets

+ -

The **actual return** on plan assets is the increase in pension funds from interest, dividends, and realized and unrealized changes in the fair-market value of the plan assets.

Accounting for Pensions

Components of Pension Expense

Effect on
Expense

4.

**Amortization of Unamortized Prior
Service Costs**

+

Plan amendments often increase benefits for service provided in prior years.

The cost (**prior service cost**) of providing these retroactive benefits is allocated to pension expense over the remaining service-years of the affected employees.

Accounting for Pensions

Components of Pension Expense

Effect on
Expense

5.

Gain or Loss

+ -

Volatility in pension expense can result from sudden and large changes in the market value of plan assets and by changes in the projected benefit obligation.

Using a Pension Work Sheet

Companies do not recognize several items in the accounts and in the financial statements:

- Projected benefit obligation.
- Pension plan assets.
- Unrecognized prior service costs.
- Unrecognized net gain or loss.

A company must disclose in notes to the financial statements, but not in the body of the financials.

Using a Pension Work Sheet

Pension Work Sheet				MEMO RECORD			
GENERAL JOURNAL ENTRIES							
	Pension Expense	Cash	Prepaid/ Accrued Costs	Projected Benefit Obligation	Plan Assets	Prior Service Costs	Unrecognized Gain/Loss
Items							

The "**General Journal Entries**" columns determine the journal entries to be recorded in the formal general ledger.

The "**Memo Record**" columns maintain balances on the unrecognized (noncapitalized) pension items.

Using a Pension Work Sheet

BE20-3 At January 1, 2008, Uddin Company had plan assets of \$250,000 and a projected benefit obligation of the same amount. During 2008, service cost was \$27,500, the settlement rate was 10%, actual and expected return on plan assets were \$25,000, contributions were \$20,000, and benefits paid were \$17,500.

Instructions

Prepare a pension worksheet for Uddin for 2008.

Using a Pension Work Sheet

BE20-3 Prepare a pension worksheet for Uddin for 2008.

Pension Work Sheet							
GENERAL JOURNAL ENTRIES				MEMO RECORD			
Items	Pension Expense	Cash	Prepaid/ Accrued Costs	Projected Benefit Obligation	Plan Assets	Prior Service Costs	Unrecognized Gain/Loss
Jan. 1, 2008			0	(250,000)	250,000		
Service costs	27,500			(27,500)			
Interest costs	25,000			(25,000)			
Actual return	(25,000)				25,000		
Contributions		(20,000)			20,000		
Benefits paid				17,500	(17,500)		
Journal entry	27,500	(20,000)	(7,500)				
Dec. 31, 2008			(7,500)	(285,000)	277,500	-	-

(\$250,000 × 10%)

(\$7,500) net liability

Using a Pension Work Sheet

Note the following about the Work Sheet:

- The balance in the Prepaid/Accrued Cost column should equal the net balance in the memo record.
- For each transaction or event, the debits must equal the credits.

Using a Pension Work Sheet

Amortization of Unrecognized Prior Service Cost

Company should not recognize the **retroactive benefits** as pension expense entirely in the year of amendment.

Employer should recognize the pension expense over the remaining service lives of the employees who are expected to benefit from the change in the plan.

Amortization Method:

- Board prefers a years-of-service method.
- SFAS No. 87 allows use of the straight-line method.

Using a Pension Work Sheet

E20-7 The following defined pension data of Doreen Corp. apply to the year 2008.

Projected benefit obligation, 1/1/08 (before amendment)	\$560,000
Plan assets, 1/1/08	546,200
Prepaid/accrued pension cost (credit)	13,800
On January 1, 2008, Doreen Corp., through plan amendment, grants prior service benefits having a present value of	100,000
Settlement rate	9%
Service cost	58,000
Contributions (funding)	55,000
Actual (expected) return on plan assets	52,280
Benefits paid to retirees	40,000
Average remaining service life for Prior Service Costs	5.8823 years

Instructions: For 2008, prepare a pension work sheet for Doreen Corp. that shows the journal entry for pension expense.

Using a Pension Work Sheet

E20-7

Amortization of Prior Service Costs :

Prior Service Costs	\$100,000
Average remaining service life	<u>5.8823</u>
Amortization	<u><u>\$ 17,000</u></u>

Using a Pension Work Sheet

E20-7 Pension Work Sheet for 2008

Items	GENERAL JOURNAL ENTRIES			MEMO RECORD		
	Pension Expense	Cash	Prepaid/ Accrued Costs	Projected Benefit Obligation	Plan Assets	Prior Service Costs
Bal. Jan. 1, 2008			(13,800)	(560,000)	546,200	
Prior service costs				(100,000)		100,000
Bal. Jan. 1, 2008 restated			(13,800)	(660,000)	546,200	100,000
Service costs	58,000			(58,000)		
Interest on liability	59,400			(59,400)		
Return on assets	(52,280)				52,280	
Amort. of PSC	17,000					(17,000)
Contributions		(55,000)			55,000	
Benefits paid				40,000	(40,000)	
Journal entry	82,120	(55,000)	(27,120)			
Dec. 31, 2008			(40,920)	(737,400)	613,480	83,000

(\$40,920) net liability

Using a Pension Work Sheet

E20-7 Pension Journal Entry for 2008.

Dec. 31	Pension expense	82,120	
	Prepaid/Accrued Costs		27,120
	Cash		55,000

Using a Pension Work Sheet

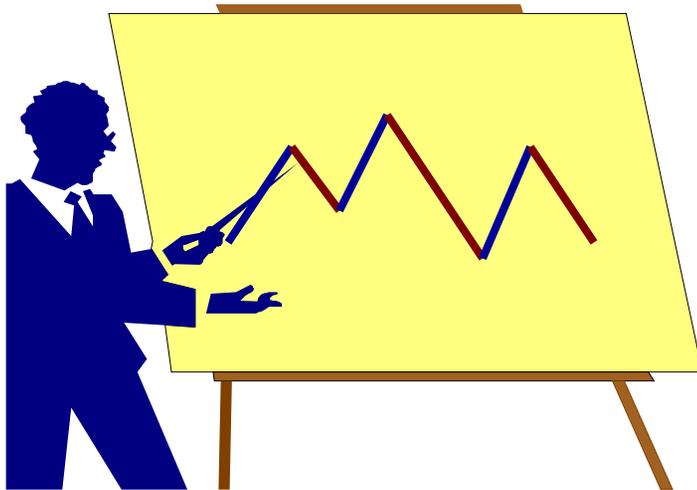
Gain or Loss

Unexpected swings in pension expense can result from:

1. Changes in the market value of **plan assets**, and
2. Changes in actuarial assumptions that affect the amount of the **projected benefit obligation**.

Using a Pension Work Sheet

Question: What is the potential negative impact on Net Income of these unexpected swings?



Volatility

The profession decided to reduce the volatility with **smoothing techniques**.

Using a Pension Work Sheet

Question: What happens to the difference between the expected return and the actual return?



Answer

Recorded in Unrecognized Net Gain or Loss account.

Amortize amount in excess of corridor to pension expense, over the average remaining service period of active employees expected to receive benefits under the plan.

Using a Pension Work Sheet

Question: What happens with unexpected gains or losses from changes in the Projected Benefit Obligation (PBO)?



Answer

Recorded in Unrecognized Net Gain or Loss account.

Amortize amount in excess of corridor to pension expense, over the average remaining service period of active employees expected to receive benefits under the plan.

Using a Pension Work Sheet

Corridor Amortization

FASB invented the **corridor approach** for amortizing the unrecognized net gain or loss accumulated balance when it gets too large. **How large is too large?**

10% of the larger of the **beginning balances** of the **projected benefit obligation** or the market-related value of the **plan assets**.

Any unrecognized net gain or loss balance above the 10% must be amortized.

Using a Pension Work Sheet

BE20-7 Hunt Corporation had a projected benefit obligation of \$3,100,000 and plan assets of \$3,300,000 at January 1, 2008. Hunt's unrecognized net pension loss was \$475,000 at that time. The average remaining service period of Hunt's employees is 7.5 years.

Instructions

Compute Hunt's amortization of the pension loss.

Using a Pension Work Sheet

BE20-7 Compute Hunt's amortization of the loss.

			Amortization
Projected benefit obligation	\$ (3,100,000)		
Plan assets	3,300,000	\$ 3,300,000	
Corridor percentage			10%
Corridor amount			330,000
Unrecognized loss			475,000
Excess loss subject to amortization			145,000
Average remaining service		÷	7.5
Amortized to pension expense			\$ 19,333

Using a Pension Work Sheet

P20-2 Katie Day Company adopts acceptable accounting for its defined benefit pension plan on January 1, 2008, with the following beginning balances: plan assets \$200,000; projected benefit obligation \$200,000. Other data are as follows.

	2008	2009	2010
Annual service cost	\$ 16,000	\$ 19,000	\$ 26,000
Settlement rate and expected rate of return	10%	10%	10%
Actual return on plan assets	17,000	21,900	24,000
Annual funding (contributions)	16,000	40,000	48,000
Benefits paid	14,000	16,400	21,000
Unrecognized prior service cost (plan amended, 1/1/09)		160,000	
Amortization of unrecognized prior service cost		54,400	41,600
Change in actuarial assumptions, Dec. 31 PBO			520,000
Average remaining service life	15 years	15 years	15 years

Using a Pension Work Sheet

P20-2 Pension Work Sheet for 2008

Items	GENERAL JOURNAL ENTRIES			MEMO RECORD			
	Pension Expense	Cash	Prepaid/ Accrued Costs	Projected Benefit Obligation	Plan Assets	Prior Service Costs	Unrecognized Gain/Loss
Bal. Jan. 1, 2008			0	(200,000)	200,000		
Service costs	16,000			(16,000)			
Interest	20,000			(20,000)			
Return on assets	(17,000)	}			17,000		
Unexpected loss	(3,000)						
Contributions		(16,000)			16,000		
Benefits paid				14,000	(14,000)		
Journal entry	16,000	(16,000)					
Dec. 31, 2008			0	(222,000)	219,000	-	3,000

* Expected Return on Plan Assets
 $\$200,000 \times 10\% = \$20,000$

(\$0)

Using a Pension Work Sheet

P20-2 Pension Journal Entry for 2008

Dec. 31	Pension expense	16,000	
	Cash		16,000

Using a Pension Work Sheet

P20-2 Pension Work Sheet for 2009

Items	GENERAL JOURNAL ENTRIES			MEMO RECORD			
	Pension Expense	Cash	Prepaid/ Accrued Costs	Projected Benefit Obligation	Plan Assets	Prior Service Costs	Unrecognized Gain/Loss
Bal. Jan. 1, 2009			0	(222,000)	219,000		3,000
Prior service costs				(160,000)		160,000	
Bal. Jan. 1, 2009, revised			0	(382,000)	219,000	160,000	3,000
Service costs	19,000			(19,000)			
Interest	38,200			(38,200)			
Return on assets	(21,900)	*			21,900		
Amort. of PSC	54,400					(54,400)	
Contributions		(40,000)			40,000		
Benefits paid				16,400	(16,400)		
Journal entry	89,700	(40,000)	(49,700)				
Dec. 31, 2009			(49,700)	(422,800)	264,500	105,600	3,000

* Actual return = Expected Return

(\$49,700) net liability

Using a Pension Work Sheet

P20-2 Pension Journal Entry for 2009

Dec. 31	Pension expense	89,700	
	Prepaid/Accrued Costs		49,700
	Cash		40,000

Using a Pension Work Sheet

P20-2 Pension Work Sheet for 2010

Items	GENERAL JOURNAL ENTRIES			MEMO RECORD			
	Pension Expense	Cash	Prepaid/ Accrued Costs	Projected Benefit Obligation	Plan Assets	Prior Service Costs	Unrecognized Gain/Loss
Bal. Jan. 1, 2010			(49,700)	(422,800)	264,500	105,600	3,000
Service costs	26,000			(26,000)			
Interest	42,280			(42,280)			
Return on assets	(24,000)				24,000		
Unexpected loss	(2,450)						2,450
Amort. of PSC	41,600					(41,600)	
Contributions		(48,000)			48,000		
Benefits paid				21,000	(21,000)		
Unexpected loss				(49,920)*			49,920
Journal entry	83,430	(48,000)	(35,430)				
Dec. 31, 2010			(85,130)	(520,000)	315,500	64,000	55,370

* Plug

(\$85,130) net liability

Using a Pension Work Sheet

P20-2 Pension Journal Entry for 2010

Dec. 31	Pension expense	83,430	
	Prepaid/Accrued Costs		35,430
	Cash		48,000

Using a Pension Work Sheet

P20-2 (Variation) Would there be any amortization of the gain/loss for 2011?

		Amortization
Beg. Projected benefit obligation	\$ (520,000)	\$ 520,000
Beg. Plan assets	315,500	
Corridor percentage		10%
Corridor amount		52,000
Unrecognized loss		55,370
Loss subject to amortization		3,370
Amortization period		15
Amortization to pension expense		\$ 225

The amortization would be reported in 2011 as follows.

Using a Pension Work Sheet

P20-2 Partial Pension Work Sheet for 2011

Items	GENERAL JOURNAL ENTRIES			MEMO RECORD			
	Pension Expense	Cash	Prepaid/ Accrued Costs	Projected Benefit Obligation	Plan Assets	Prior Service Costs	Unrecognized Gain/Loss
Bal. Jan. 1, 2011			(85,130)	(520,000)	315,500	64,000	55,370
Service costs							
Interest							
Return on assets							
Amort. of loss	225						(225)
Journal entry							
Dec. 31, 2011							

Minimum Liability

The Board, requires immediate recognition of a liability (**minimum liability**) when the accumulated benefit obligation exceeds the fair value of plan assets.

If a company has already reported a liability for accrued pension cost, it records only an additional liability to equal the required minimum liability.

Minimum Liability

BE20-8 Judy O'Neill Corporation provides the following information at December 31, 2007.

Accumulated benefit obligation	\$2,800,000
Plan assets at fair value	2,000,000
Accrued pension cost	200,000
Unrecognized prior service cost	1,100,000

Compute the additional liability that O'Neill must record at December 31, 2007.

Minimum Liability

BE20-8 Compute the additional liability that O'Neill must record at December 31, 2007.

Accumulated benefit obligation	\$2,800,000
Fair value of plan assets	<u>2,000,000</u>
Minimum liability	800,000
Accrued pension cost	<u>200,000</u>
Additional liability	<u>\$ 600,000</u>

Intangible asset	600,000	
Additional pension liability		600,000

Reporting Pension Plans in Financial Statements

Within the Financial Statements

- Pension expense
- Accrued Pension Cost
- Prepaid Pension Cost
- Intangible Asset—Deferred Pension Cost
(*Minimum Liability test*)

Reporting Pension Plans in Financial Statements

Within the Notes to the Financial Statements

1. Major components of pension expense.
2. Reconciliation showing how the projected benefit obligation and the fair value of the plan assets changed.
3. The funded status of the plan (difference between the projected benefit obligation and fair value of the plan assets).

Reporting Pension Plans in Financial Statements

Within the Notes to the Financial Statements

4. Disclosure of the rates used in measuring the benefit amounts (discount rate, expected return on plan assets, rate of compensation).
5. Table indicating the allocation of pension plan assets by category.
6. The expected benefit payments to be paid to current plan participants for each of the next five fiscal years and in the aggregate for the five fiscal years thereafter.

Reporting Pension Plans in Financial Statements

Special Issues

- The Pension Reform Act of 1974
- Pension Terminations

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