FALL 2012

EXAM DP-RC

Design and Pricing Retirement Benefits Canada

CASE STUDY

DP-RC morning

Case Study - Course DP Retirement - Canada

National Oil Company - Background

National Oil Company (NOC) is a large well-established company that services oil wells all over Canada. Most of NOC's employees are employed in the province of Ontario. NOC has been in existence for over 30 years and has more than 10,000 full-time salaried and union hourly employees and over 6,000 part-time employees. The full-time workforce is reasonably stable, but turnover in the last 5 years has been greater than desired, due to competitors recruiting NOC's employees.

Normally, an undergraduate degree is a minimum requirement to obtain entry to the salaried workforce and many employees have graduate degrees. About half of NOC's salaried employees are recruited directly from university with the other half coming from competitors.

The company's financial position varies with the price of oil. As oil prices rise, oil companies become increasingly active and in turn require the services of NOC. Conversely, activity slows as oil prices drop. Despite this, the company is usually in a taxable position.

NOC has managed to be successful by staying on the cutting edge of technology. NOC prides itself in being state of the art in processes and software relevant to its industry. This has helped it to stave off competition from both inside and outside of Canada. Although NOC is the largest player in the industry within Canada, there are larger players from outside of the country, with which NOC has to compete. From time to time, there are rumors of a takeover of NOC.

Canadian legislation and social programs will apply to NOC in this case study.

Summary of National Oil's Retirement Benefits

NOC maintains five retirement programs:

- 1. a final-average pay defined benefit (DB) RPP for its full-time salaried employees;
- 2. a flat dollar DB RPP for its full-time hourly union staff;
- 3. a defined contribution (DC) RPP for its part-time workforce; and

4. a non-registered pension plan (referred to as the SERP) for its executives that is supplemental to the salaried RPP. This plan has no assets.

5. a retiree health and welfare plan for the full-time salaried and union retirees. This plan has no assets.

Extracts of Retirement Benefits Provisions and Financial Information

National Oil Full-Time Salaried Pension Plan

Eligibility	Immediate
Vesting	Immediate
Normal Retirement Age	65
Early Retirement Age	55
Best Average Earnings	Average annual earnings during 60 consecutive months in which earnings were highest
Earnings	Base pay, excluding overtime and bonuses
Normal Retirement Benefit	2% of best average earnings times years of service, subject to legislative maximum
Accrued Benefit	Benefit calculated as under the normal retirement benefit formula using best average earnings and service as of date of calculation
Early Retirement Benefit	Accrued benefit reduced by 0.25% per month that early retirement precedes age 62 for actives participants and actuarial equivalent for terminated participants
Form of Benefit	If with spouse, 60% joint & survivor benefit, without reduction. If without spouse, single life annuity
Optional Forms of Benefit	None
Indexing	None
Termination Benefit	(1) Lump sum value equal to actuarial present value of accrued pension payable at age 65; or(2) Deferred pension
Pre-Retirement Death Benefit	Lump sum value equal to actuarial present value of accrued pension payable at age 65 to named beneficiary
Disability Benefit	Accrual of service while on long term disability and immediate pension without a reduction upon permanent and total disability

National Oil Full-Time Salaried Pension Plan Historical Going Concern Actuarial Valuation Results

	2009	2010	2011	2012
Participant Summary - January 1				
Active Participants				
(a) count	4,286	4,251	4,076	4,046
(b) average age	45.5	45.4	45.2	45.1
c) average service	15.4	15.3	15.4	15.0
d) average future working lifetime	11.0	11.0	11.0	11.0
e) average plan earnings (prior year)	65,000	66,300	67,400	68,000
Deferred Vested Participants				
a) count	-	-	-	-
Pensioners (incl beneficiaries)				
(a) count	695	720	773	821
b) average age	69.8	68.2	68.0	67.0
(c) average annual benefit	20,100	21,800	22,000	22,500

Plan Assets (numbers in \$000's) *

Change in Plan Assets during Prior Year:	•			
Market Value of Assets at January 1 of prior year	756,844	602,863	633,966	748,481
Employer Contributions during prior year	40,000	92,000	92,000	99,000
Benefit Payments during prior year	(20,500)	(21,000)	(21,000)	(22,000)
Expenses during prior year	-	-	-	-
Investment return during prior year	(173,480)	(39,898)	43,515	7,476
Market Value of Assets at January 1 of current year	602,863	633,966	748,481	832,957
Rate of return during prior year	-23%	-6%	6.5%	1.0%
Average Portfolio Mix During Prior Year:				
(a) Domestic Large Cap Equities	30%	32%	30%	30%
(b) Domestic Small Cap Equities	27%	25%	10%	10%
(c) Domestic Fixed Income	27%	23%	35%	40%
(d) International Equities	11%	15%	20%	15%
(e) Real Estate	3%	3%	0%	0%
(f) Cash	<u>2%</u>	<u>2%</u>	<u>5%</u>	<u>5%</u>
(g) Total	100%	100%	100%	100%
Asset Class Returns during Prior Year:				
(a) Domestic Large Cap Equities	-30%	-12%	12%	-9%
(b) Domestic Small Cap Equities	-45%	-5%	5%	-5%
(c) Domestic Fixed Income	8%	1%	1%	14%
(d) International Equities	-35%	-10%	10%	-10%
(e) Real Estate	5%	3%	3%	3%
(f) Cash	3%	1%	1%	1%

National Oil Full-Time Salaried Pension Plan Historical Going Concern Actuarial Valuation Results

Going Concern Valuation - January 1 (numbers	in \$000's) *			
1. Actuarial Accrued Liability:				
(a) Active participants	748,857	692,620	776,554	756,002
(b) Deferred vested participants	-	-	-	-
(c) Pensioners	163,443	185,213	210,874	229,059
(d) Total	912,300	877,833	987,429	985,061
2. Actuarial Value of Assets	602,863	633,966	748,481	832,957
3. Unfunded Actuarial Accrued Liability: (1d)-(2)	309,436	243,867	238,948	152,104
4. Normal Cost (beg. Of year)	48,627	45,269	50,426	50,400
5. Change in Unfunded AAL during prior year:				
(a) Unfunded AAL at prior valuation date	133,918	309,436	243,867	238,948
(b) Adjustment for Interest	8,705	20,113	15,851	14,337
(c) Normal Cost winterest less contributions	10,373	(43,202)	(46,778)	(48,519
(d) (Gain)/Loss on investment	223,309	81,391	-	39,743
(e) (Gain)/Loss on termination	(14,000)	(17,000)	(20,000)	(25,000
(f) (Gain)/Loss on salary increases less than expected	(50,000)	(100,000)	(25,000)	(30,000
(g) (Gain)/Loss on mortality	(6,800)	(6,900)	2,000	2,000
(h) (Gain)/Loss on retirement	50,000	25,000	23,000	(5,000
(i) (Gain)/Loss on assumption changes		20,000	40,000	-
(i) (Gain)/Loss on expenses	-			-
(k) (Gain)/Loss on all other factors	(46.068)	(44,972)	6.007	(34,404
(I) Unfunded AAL at current valuation date	309,436	243,867	238,948	152,104
5. Actuarial Basis				
(a) Interest	6.50%	6,50%	6.00%	6.00%
(b) Salary scale	4.50%	4.00%	4.00%	4.00%
(c) Consumer Price Index	3.00%	2.50%	2.50%	2.50%
		1994 Uninsured Pensioner Mortality -	1994 Uninsured Pensioner Mortality -	1994 Uninsured Pensioner Mortality -
(d) Mortality	UP 1994 AA15	Generational	Generational	Generational
(e) Turnover	Based on NOC experience for 1996-2006			5
(f) Retirement age	Age 62			
(g) Proportion married and age difference	80% married, husbands 3 years older than wives			ives
(h) Expenses	A	ssume all expense	s paid by company	
(i) Asset Valuation Method		Market valu	e of assets	
(j) Actuarial Cost Method		Projected u	unit credit	

National Oil Full-Time Salaried Pension Plan Solvency Valuation Results

2010 2011 2012	2010	2011	2012
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Solvency Valuation - January 1 (numbers in \$000's) *

1. Actuarial Accrued Liability:	700.000	705 195	950 240		
(a) Active participants (b) Deferred vested participants	732,286	725,185	850,249		
(c) Pensioners	222,883	239,785	288,171		
(d) Total	955,169	964,970	1,138,420		
2. Market Value of Assets	633,966	748,481	832,957		
3. Solvency Deficiency: (1d)-(2)	321,203	216,489	305,463		
4. Actuarial Basis					
(a) Interest - Benefit paid by lump sum		3.7% for 10 years3.7% for 10 years2.4% for 10 year5.4% thereafter5% thereafter3.9% thereafter			
(a) Interest - Benefit settled by annuity purchase	4.5%	4.5% 4.5% 3.3%			
			UP 1994 -		
(b) Mortality	UP 1994 AA20 UP 1994 AA20 Generational				
(c) Retirement age	The age th	The age that produces the largest value			
(d) Proportion married and age difference	80% with spous	80% with spouse, Male spouses are 3 years older			
(e) Asset Valuation Method	Μ	arket value of asse	ts		
(f) Actuarial Cost Method		Unit Credit			

National Oil Full-Time Salaried Pension Plan Reconciliation of Plan Participants (2009 - 2012)

	Active	Pensioners/ Beneficiaries	Total
1. Participants as of January 1, 2009	4,286	695	4,981
 New Entrants/Rehires Terminated Nonvested Terminated Vested (Lump Sum Cashout) Retirement Death w/ Beneficiary Death w/o Beneficiary Net change 	250 (120) (130) (30) (5) - (35)	- - 30 5 (10) 25	250 (120) (130) - - (10) (10)
2. Participants as of January 1, 2010	4,251	720	4,971
 New Entrants/Rehires Terminated Nonvested Terminated Vested (Lump Sum Cashout) Retirement Death w/ Beneficiary Death w/o Beneficiary Net change 	100 (100) (120) (50) (5) - (175)	- - 50 5 (2) 53	100 (100) (120) - - (2) (122)
3. Participants as of January 1, 2011	4,076	773	4,849
 New Entrants/Rehires Terminated Nonvested Terminated Vested (Lump Sum Cashout) Retirement Death w/ Beneficiary Death w/o Beneficiary Net change 	250 (100) (130) (45) (5) - (30)	- - 45 5 (2) 48	250 (100) (130) - - (2) 18
4. Participants as of January 1, 2012	4,046	821	4,867

			< 5	Se l 5-10	Service (Years) 10-15	15-20	>20	Totals
Age (Years)	< 25	# Participants Average Salary	200 36,500	90 47,500	11	i î		290 39,900
	25-35	# Participants Average Salary	260 48,100	120 58,000	80 63,500	55 68,500		515 55,000
	35-45	# Participants Average Salary	205 60,400	178 67,300	166 72,300	191 77,500	201 79,500	941 71,400
	45-55	# Participants Average Salary	184 63,500	143 66,200	165 74,000	285 76,000	739 78,200	1,516 74,400
	55-65	# Participants Average Salary	193 63,200	77 65,500	67 69,800	70 75,200	369 75,500	776 70,900
	> 65	# Participants Average Salary	4 48,200	2 53,200	1 48,300	- 59,200	1 55,100	8 50,300
	Totals	# Participants Average Salary	1,046 53,800	610 62,000	479 71,000	601 75,700	1,310 77,600	4,046 68,000
		Avg Age Avg Svc Avg Salary	45.1 15.0 68,000					

National Oil Full-Time Salaried Supplemental Executive Retirement Plan (SERP)

Eligibility	Immediate
Normal Retirement Age	65
Early Retirement Age	55
Accrued Benefit	Accrued Benefit calculated under the provisions of the Salaried Pension Plan without regard to legislative maximums <u>less</u> actual Accrued Benefit under the Salaried Pension Plan
Normal Retirement Benefit	Accrued Benefit
Early Retirement Benefit	Accrued benefit reduced by 0.25% per month that early retirement precedes age 62 for actives participants
Commencement Date and Form of Benefit	Must be same as under Salaried Pension Plan
Indexing	None
Termination Benefit	None
Pre-Retirement Death Benefit	None
Disability Benefit	None

Supplemental Retirement Plan <u>Historical Valuation Results - January 1</u>

<u>Historical Valuation Results - January 1</u>				
	2009	2010	2011	2012
Participant Summary				
1. Active Participants				
(a) count	52	60	60	60
(b) average age	53.1	52.0	50.0	51.0
(c) average service	18.2	19.1	17.0	18.0
(d) average future working lifetime	6.3	6.3	8.8	8.8
(e) average earnings (prior year)	325,000	350,000	350,000	350,000
2. Deferred Vested Participants				
(a) count	-	· –	-	-
3. Pensioners (incl beneficiaries)				
(a) count	30	30	30	30
(b) average age	66.0	66.0	66.1	67.1
(c) average annual benefit	22,000	22,000	22,000	22,000
Valuation Results (numbers in \$000's) * 1. Reconciliation of funded status at valuation date:			₩- n₩	
(a) Accrued Benefit Obligation	(50,223)	(66,249)	(80,454)	(91,110)
(b) Fair Value of Assets	-	-	-	-
(c) Funded Status: (a) + (b)	(50,223)	(66,249)	(80,454)	(91,110)
2. Service Cost	1,508	1,841	1,791	2,041
3. Benefit Payments	660	660	660	660
4. Actuarial Basis				
(a) Discount rate	7.50%	6.50%	5.50%	5.00%
(b) Salary scale	3.50%	3.50%	3.50%	3.50%
(c) CPI	3.00%	2.50%	2.50%	2.50%
	/			

National Oil Full-Time Hourly Union Pension Plan

Eligibility	Immediate
Vesting	Immediate
Normal Retirement Age	65
Early Retirement Age	55
Normal Retirement Benefit	\$80 per month times all years of service for terminations/retirements after 2004
Accrued Benefit	Benefit calculated as under the normal retirement benefit formula based on service and multiplier as of date of calculation
Early Retirement Benefit	Unreduced benefit at 62 with 30 years of service, otherwise reduced by 0.25% per month that early retirement precedes Normal Retirement Age for active participants and actuarial equivalent for terminated participants
Form of Benefit	With a spouse, 60% joint & survivor benefit without reduction Without a spouse, single life annuity.
Optional Forms of Benefit	None
Post-Retirement Indexing	Lesser of 1% or CPI each year after pension commencement
Termination Benefit	(1) Lump sum value equal to actuarial present value of accrued pension payable at age 65; or(2) Deferred pension
Pre-Retirement Death Benefit	Lump sum value equal to actuarial present value of accrued pension payable at age 65 to named beneficiary
Disability Benefit	None

National Oil Full-Time Hourly Union Pension Plan Historical Going Concern Actuarial Valuation Results

	2009	2010	2011	2012
Participant Summary - January 1				
ctive Participants				
a) count	6,321	6,395	6,225	6,285
) average age	46.0	46.1	46.1	45.8
c) average service	17.0	17.3	17.3	16.8
d) average future working lifetime	10.8	10.8	10.8	11.0
e) average plan earnings (prior year)	49,500	51,000	53,100	54,300
Deferred Vested Participants				
a) count	-	-	-	-
ensioners (incl beneficiaries)				
a) count	1,081	1,120	1,135	1,150
) average age	70.0	68.0	68.0	67.0
c) average annual benefit	12,200	13,400	13,400	13,600

Change in Plan Assets during Prior Year:				
Market Value of Assets at January 1 of prior year	471,638	432,988	488,942	606,421
Employer Contributions during prior year	100,000	100,000	100,000	100,000
Benefit Payments during prior year	(15,000)	(17,000)	(17,000)	(19,000)
Expenses during prior year	-	-	-	-
Investment return during prior year	(123,650)	(27,046)	34,479	6,146
Market Value of Assets at January 1 of current year	432,988	488,942	606,421	693,567
Rate of return during prior year	-24%	-6%	6.5%	1.0%
Average Portfolio Mix During Prior Year:				
(a) Domestic Large Cap Equities	32%	30%	30%	30%
(b) Domestic Small Cap Equities	25%	10%	10%	10%
(c) Domestic Fixed Income	23%	35%	35%	40%
(d) International Equities	15%	20%	20%	15%
(e) Real Estate	3%	0%	0%	0%
(f) Cash	<u>2%</u>	<u>5%</u>	<u>5%</u>	<u>5%</u>
(g) Total	100%	100%	100%	100%
Asset Class Returns during Prior Year:				
(a) Domestic Large Cap Equities	-30%	-12%	12%	-9%
(b) Domestic Small Cap Equities	-45%	-5%	5%	-5%
(c) Domestic Fixed Income	8%	1%	1%	14%
(d) International Equities	-35%	-10%	10%	-10%
(e) Real Estate	5%	3%	3%	3%
(f) Cash	3%	1%	1%	1%

National Oil Full-Time Hourly Union Pension Plan Historical Going Concern Actuarial Valuation Results

	2009	2010	2011	2012
Going Concern Valuation - January 1 (numbers	s in \$000's) *			
1. Actuarial Accrued Liability:				
Active Multiplier	\$ 80 \$	80 \$	80 \$	80
(a) Active participants	496,187	543,526	587,192	574,865
(b) Deferred vested participants		-	-	-
(c) Pensioners	146.389	172,592	182.508	193,936
(d) Total	642,576	716,118	769,700	768,801
2. Actuarial Value of Assets	432,988	488,942	606,421	693,567
3. Unfunded Actuarial Accrued Liability: (1d)-(2)	209,588	227,176	163,279	75,235
4. Normal Cost (beg. Of year)	29,187	31,418	33,942	34,218
E. Channel in Unformed and Automation prior upon				
5. Change in Unfunded AAL during prior year:	88.853	209,588	227,176	163,279
(a) Unfunded AAL at prior valuation date	5,775	13,623	14,766	9,797
(b) Adjustment for Interest	(75,896)	(72,165)	(69,790)	(67,022
(c) Normal Cost w/interest less contributions		· · ·	(09,790)	32,670
(d) (Gain)/Loss on investment	157,069	57,888	12,000	8,000
(e) (Gain)/Loss on termination	(6,000)	(8,000)	12,000	0,000
(f) (Gain)/Loss on salary increases less than expected	(1,900)	(3,900)	(28,000)	(21,000
(g) (Gain)/Loss on mortality		(3,900) (600)	(26,000)	(21,000
(h) (Gain)/Loss on retirement	(400)	(600)	33,000	(20,000
(i) (Gain)/Loss on assumption changes	-	-	33,000	-
(j) (Gain)/Loss on expenses	-	-	-	(04.490
(k) (Gain)/Loss on all other factors	42,087	30,742	127	(24,489
(I) Change in active benefit multiplier(m) Unfunded AAL at current valuation date	209,588	227,176	163,279	75,235
5. Actuarial Basis	6.50%	6.50%	6.00%	6.00
(a) Interest		6.50% N/A	6.00% N/A	8.00- N/
(b) Salary scale	N/A 3.00%	2.50%	2.50%	2.50
(c) Consumer Price Index	3.00% GAM 1994	2.50% GAM 1994	GAM 1994	GAM 199
(d) Mortality				GAM 199
(e) Turnover		ed on NOC experien		
(f) Retirement age		he appropriate early		
(g) Proportion married and age difference		arried, husbands 3 y		95
(h) Expenses	As	sume all expenses p	aid by company	
(i) Post-retirement indexing		1%	C	
(j) Asset Valuation Method		Market value c		
(k) Actuarial Cost Method		Unit crea	dit	

National Oil Full-Time Hourly Union Pension Plan Solvency Valuation Results

2010	2011	2012

Solvency Valuation - January 1 (numbers in \$000's) *

1 Actuarial Accorned Liability:					
1. Actuarial Accrued Liability: (a) Active participants	860,119	837,254	1,072,545		
(b) Deferred vested participants	000,110		.,		
(c) Pensioners	210,112	212,926	237,728		
(d) Total	1,070,231	1,050,180	1,310,273		
2. Market Value of Assets	488,942	606,421	693,567		
3. Solvency Deficiency: (1d)-(2)	581,289	443,759	616,706		
4. Actuarial Basis					
(a) Interest - Benefit paid by lump sum	3.7% for 10 years 3.7% for 10 years 2.4% for 10 5.4% thereafter 5% thereafter 3.9% there				
(a) Interest - Benefit settled by annuity purchase	4.5%	4.5%	3.3%		
			UP 1994 -		
(h) Martality	UP 1994 AA20	UP 1994 AA20	Generational		
(b) Mortality	01 100470120	01 100470.20	Contrational		
(c) Retirement age	The age that produces the largest value				
(d) Proportion married and age difference	80% with spouse, Male spouses are 3 years older				
(e) Asset Valuation Method	N	larket value of asse [.]	ts		
(f) Actuarial Cost Method		Unit Credit			

National Oil Full-Time Hourly Union Pension Plan Reconciliation of Plan Participants (2009 - 2012)

	Active	Pensioners/ Beneficiaries	Total
1. Participants as of January 1, 2009	6,321	1,081	7,402
 New Entrants/Rehires Terminated Nonvested Terminated Vested (Lump Sum Cashout) Retirement Death w/ Beneficiary Death w/o Beneficiary Net change 	220 (50) (50) (40) (6) - 74	- - 40 6 (7) 39	220 (50) - - (7) 113
2. Participants as of January 1, 2010	6,395	1,120	7,515
 New Entrants/Rehires Terminated Nonvested Terminated Vested (Lump Sum Cashout) Retirement Death w/ Beneficiary Death w/o Beneficiary Net change 	50 (50) (120) (50) - - (170)	- - 50 (35) 15	50 (50) (120) - - (35) (155)
3. Participants as of January 1, 2011	6,225	1,135	7,360
 New Entrants/Rehires Terminated Nonvested Terminated Vested (Lump Sum Cashout) Retirement Death w/ Beneficiary Death w/o Beneficiary Net change 	300 (50) (130) (60) - - 60	- - 50 (35) 15	300 (50) (130) (10) - (35) 75
4. Participants as of January 1, 2012	6,285	1,150	7,435

on Plan	
ourly Union Pension Plan	nuary 1, 2012
ational Oil Full-Time Ho	\ge/Svc/Earnings as of January 1

			< 5	Ser 5-10	Service (Years) 10-15	15-20	>20	Totals
Age (Years)	< 25	# Participants Average Salary	240 41,000	109 46,000		1 1	1 1	349 42,600
	25-35	# Participants Average Salary	336 45,200	95 47,100	91 52,000	62 54,000		584 47,500
	35-45	# Participants Average Salary	265 51,000	320 46,100	300 54,400	649 56,300	441 56,900	1,975 53,800
	45-55	# Participants Average Salary	170 51,000	150 49,000	305 56,800	678 57,100	885 57,800	2,188 56,300
	55-65	# Participants Average Salary	115 50,000	62 51,600	86 58,200	170 58,900	744 59,800	1,177 58,200
	> 65	# Participants Average Salary	7 52,000	4 52,000	1 59,800			12 52,700
	Totals	# Participants Average Salary	1,133 47,100	740 47,300	783 55,500	1,559 56,800	2,070 58,300	6,285 54,300
		Avg Age Avg Suc Avg Salary	45.8 16.8 54,300					

National Oil Part-Time DC Pension Plan

Eligibility	Immediate
Vesting	Immediate
Employer Contributions - Base Employer Contributions - Match	3% of base pay 100% on the first 3% and 50% thereafter
Employee Contributions	Up to 6% of base pay
Plan Fund	The employer invests the contributions in a balanced fund. There are no employee investment choices.
Account Balance	Contributions are accumulated in member's individual account earning investment income at the rate of return earned by the Plan Fund.
Benefit on Termination or Retirement	Account balance is transferred to a LIRA/LIF for the member after one year from date of termination or retirement, unless employee has since returned to employment with NOC.
Benefit on Death	Account balance is payable to named beneficiary

National Oil Part-Time DC Pension Plan

Historical Results - January 1

	2009	2010	2011	2012
Participant Summary				
(a) number participating during prior year(b) average age	6,500 28,9	7,000 29,2	6,800 30.8	7,200 31.0
(c) average base pay	29,000	30,000	31,000	31,000

Plan Assets (numbers in \$000's) *

Change in Plan Assets during Prior Year:				
Market Value of Assets at January 1 of prior year	73,760	71,556	96,044	119,341
Employee Contributions during prior year	7,540	8,400	8,432	8,928
Company Contributions during prior year	12,253	13,650	13,702	14,508
Benefit Payments during prior year	(5,850)	(6,300)	(6,120)	(6,480
Expenses during prior year	-	-	-	-
Investment return during prior year	(16,146)	8,737	7,284	1,278
Market Value of Assets at January 1 of current year	71,556	96,044	119,341	137,575
Rate of return during prior year	-20%	11%	7%	1%

National Oil Full-Time Salaried and Union Retiree Health Benefit Program

Eligibility	Immediate
Earliest Retirement Age	55 and 10 years of service
Retirement benefit	Retirees and their spouses may elect to participate in a self insured health plan, with 100% of cost paid by the employer
Death benefit	Coverage continues for the life of the spouse after death of an eligible employee
Benefits Covered - Pre 65	\$0 deductible; \$0 copay No lifetime maximum Office visits Hospital visits Surgery Prescription drugs
Benefits Covered - Post 65	\$0 deductible; \$0 copay No lifetime maximum Office visits Hospital visits Surgery Prescription drugs Government Benefits carve out

Retiree Health and Welfare Program <u>Historical Valuation Results</u>	2009	2010	2011	2012
Valuation Results - January 1 (numbers in \$000's) *				
1. Reconciliation of funded status at valuation date:				
(a) Accrued Benefit Obligation				
(i) actives	-858,653	-1,396,669	-1,929,494	-2,460,040
(ii) retirees	-585,386	-719,754	-923,781	-1,185,274
(iii) total	-1,444,039	-2,116,424	-2,853,275	-3,645,314
(b) Market Value of Assets	0	0	0	0
(c) Surplus: (a) + (b)	-1,444,039	-2,116,424	-2,853,275	-3,645,314
2. Service Cost (beg. of year)	53,666	87,292	148,423	189,234
3. Benefit Payments	30,000	32,000	40,000	40,000
4. Actuarial Basis				
(a) Discount rate	7.50%	6.50%	5.50%	5.00%
(b) Return on assets	N/A	N/A	N/A	N/A
(c) Medical trend				
Initial rate	7.00%	10.00%	10.00%	10.00%
Annual decrease	0.50%	0.50%	0.50%	0.50%
Ultimate rate	4.50%	5.00%	5.00%	5.00%
Year ultimate trend rate reached	2014	2020	2020	2020
(d) CPI	3.00%	2.50%	2.50%	2.50%
(e) Per capita claims cost	10,500	12,000	12,000	13,200
(f) Retirement assumption	Age 62 with 10 years of service			
(g) All other demographic assumptions	Same as those used for pension plans			