# **SPRING 2013**

# **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

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

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 eamings (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%

<sup>\*</sup> numbers may not add due to rounding

2009 2010 2011 2012

# Going Concern Valuation - January 1 (numbers in \$000's) \*

Actuarial Accrued Liability:					
(a) Active participants	748,857	692,620	776,554	756,002	
(b) Deferred vested participants	400.440	405.040	240.074	-	
(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 w/interest 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	- 1	
(j) (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	
6. 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	1994 Uninsured	1994 Uninsured	
		Pensioner	Pensioner	Pensioner	
		Mortality -	Mortality -	Mortality -	
(d) Mortality	UP 1994 AA15	Generational	Generational	Generational	
(e) Turnover	Ba	sed on NOC exper	ience for 1996-2006	3	
(f) Retirement age	Age 62				
(g) Proportion married and age difference	80% n	narried, husbands 3	vears older than w	ives	
(h) Expenses	80% married, husbands 3 years older than wives  Assume all expenses paid by company				
	μ	ssume all expense	s paid by company		
(i) Asset Valuation Method		Market value	e of assets		
(j) Actuarial Cost Method					
() Actualital Cost Motifod		Projected t	ınıt credit		

<sup>\*</sup> numbers may not add due to rounding

#### National Oil Full-Time Salaried Pension Plan

Solvency Valuation Results

2010 2011 2012

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

1. Actuarial Accrued Liability:						
(a) Active participants	732,286	725,185	850,249			
(b) Deferred vested participants	732,200	725,165	050,245			
(c) Pensioners	222,883	239.785	288,171			
(d) Total	955,169	964,970	1,138,420			
(u) Total	333,103	304,370	1,100,420			
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 years	3.7% for 10 years				
	5.4% thereafter	5% thereafter	3.9% thereafter			
(a) Interest - Benefit settled by annuity purchase	4.5%	4.5%	3.3%			
			UP 1994 -			
(b) Mortality	UP 1994 AA20	UP 1994 AA20	Generational			
(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	M	larket value of asse	ts			
(f) Actuarial Cost Method		Unit Credit				

<sup>\*</sup> numbers may not add due to rounding

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

National Oil Full-Time Salaried Pension Plan Age/Svc/Earnings as of January 1, 2012

Age (Years)

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

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

Eligibility Immediate

Normal Retirement Age 65

Early Retirement Age 55

Salaried Pension Plan without regard to legislative maximums <u>less</u> actual Accrued Benefit under the

Salaried Pension Plan

Normal Retirement Benefit Accrued Benefit

retirement precedes age 62 for actives participants

Commencement Date and Form Must be same as under Salaried Pension Plan

of Benefit

Indexing None

Termination Benefit None

Pre-Retirement Death Benefit None

Disability Benefit None

Tilstofical Valuation Nesults - January 1	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) \*

Reconciliation of funded status at valuation date:	, , , , , , , , , , , , , , , , , , , ,			
(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)
(5) Furnasa Status. (4) F(5)	(00,220)	(00,2.0)	(05) .0 .)	(0.,)
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%
(d) All other assumptions	S	ame as the Sal	aried Plan	

<sup>\*</sup> numbers may not add due to rounding

# 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				
Active Participants				
(a) count	6,321	6,395	6,225	6,285
(b) 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	-	-	-	-
Pensioners (incl beneficiaries)				
(a) count	1,081	1,120	1,135	1,150
(b) average age	70.0	68.0	68.0	67.0
(c) average annual benefit	12,200	13,400	13,400	13,600

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

Change in Plan Assets during Prior Year:	471.638	432,988	488,942	606,421
Market Value of Assets at January 1 of prior year		,	,	
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	(400.050)	(07.0.40)	- 0.4.470	
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>	5%	<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%

<sup>\*</sup> numbers may not add due to rounding

# Going Concern Valuation - January 1 (numbers 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		, <u> </u>		· -		·-	-
(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
5. Change in Unfunded AAL during prior year:							
(a) Unfunded AAL at prior valuation date		88,853		209,588		227,176	163,279
(b) Adjustment for Interest		5,775		13,623		14,766	9,797
(c) Normal Cost w/interest less contributions		(75,896)		(72,165)		(69,790)	(67,022)
(d) (Gain)/Loss on investment		157,069		57,888		-	32,670
(e) (Gain)/Loss on termination		(6,000)		(8,000)		12,000	8,000
(f) (Gain)/Loss on salary increases less than expected		-		-		-	-
(g) (Gain)/Loss on mortality		(1,900)		(3,900)		(28,000)	(21,000)
(h) (Gain)/Loss on retirement		(400)		(600)		(26,000)	(26,000)
(i) (Gain)/Loss on assumption changes		-		-		33,000	-
(j) (Gain)/Loss on expenses		-		-		-	-
(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
6. Actuarial Basis							
(a) Interest		6.50%		6.50%		6.00%	6.00%
(b) Salary scale		N/A		N/A		N/A	N/A
(c) Consumer Price Index		3.00%		2.50%		2.50%	2.50%
(d) Mortality		GAM 1994		GAM 1994		GAM 1994	GAM 1994
(e) Turnover		Ba	ased or	NOC exper	rience f	or 1996 - 200	06
(f) Retirement age		Age 62, wit	h the a	ppropriate e	arly ret	irement redu	ction, if any
(g) Proportion married and age difference	80% married, husbands 3 years older than wives					vives	
(h) Expenses	Assume all expenses paid by company					•	
(i) Post-retirement indexing	1%						
(j) Asset Valuation Method	Market value of assets						
(k) Actuarial Cost Method				Unit	credit		

<sup>\*</sup> numbers may not add due to rounding

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

2010

2011

2012

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

Actuarial Accrued Liability:     (a) Active participants     (b) Deferred vested participants     (c) Pensioners	860,119 210,112	837,254 212,926	1,072,545 237,728			
(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 5.4% thereafter	3.7% for 10 years 5% thereafter	2.4% for 10 years 3.9% thereafter			
(a) Interest - Benefit settled by annuity purchase	4.5%	4.5%	3.3%			
(b) Mortality	UP 1994 AA20	UP 1994 AA20	UP 1994 - Generational			
(c) Retirement age	The age th	The age that produces the largest value				
(d) Proportion married and age difference	80% with spou	80% with spouse, Male spouses are 3 years older				
(e) Asset Valuation Method	N	Market value of assets				
(f) Actuarial Cost Method	Unit Credit					

<sup>\*</sup> numbers may not add due to rounding

# 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	
<ul> <li>New Entrants/Rehires</li> <li>Terminated Nonvested</li> <li>Terminated Vested (Lump Sum Cashout)</li> <li>Retirement</li> <li>Death w/ Beneficiary</li> <li>Death w/o Beneficiary</li> <li>Net change</li> </ul>	220 (50) (50) (40) (6) - 74	- - - 40 6 (7) 39	220 (50) (50) - - (7) 113	
2. Participants as of January 1, 2010	6,395	1,120	7,515	
<ul> <li>New Entrants/Rehires</li> <li>Terminated Nonvested</li> <li>Terminated Vested (Lump Sum Cashout)</li> <li>Retirement</li> <li>Death w/ Beneficiary</li> <li>Death w/o Beneficiary</li> <li>Net change</li> </ul>	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	
<ul> <li>New Entrants/Rehires</li> <li>Terminated Nonvested</li> <li>Terminated Vested (Lump Sum Cashout)</li> <li>Retirement</li> <li>Death w/ Beneficiary</li> <li>Death w/o Beneficiary</li> <li>Net change</li> </ul>	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	

National Oil Full-Time Hourly Union Pension Plan Age/Svc/Earnings as of January 1, 2012

Age (Years)

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

#### National Oil Part-Time DC Pension Plan

Retirement

Eligibility Immediate

Vesting Immediate

Employer Contributions - Base 3% of base pay

Employer Contributions - Match 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 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				
<ul><li>(a) number participating during prior year</li><li>(b) average age</li><li>(c) average base pay</li></ul>	6,500 28.9 29,000	7,000 29.2 30,000	6,800 30.8 31,000	7,200 31.0 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%

<sup>\*</sup> numbers may not add due to rounding

#### 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

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

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 year	rs of service	
(g) All other demographic assumptions	Sa	me as those used fo	or pension plans	

<sup>\*</sup> numbers may not add due to rounding