

**FALL 2014**

**EXAM RETDAC**

**Design & Accounting  
Exam – Canada**

**CASE STUDY**

**RETDAC Afternoon**



## **Canadian Exam Case Study - Course DA Retirement**

### **National Oil Company - Background**

National Oil Company (NOC) is a large well-established company that services oil wells all over the country of Gevrey. NOC has been in existence for over 30 years and has approximately 10,000 full-time salaried and union hourly employees and up to a further 5,000 non-skilled seasonal employees during the non-winter months. Approximately one-half of the seasonal employees return for another season. 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 Gevrey. Although NOC is the largest player in the industry within Gevrey, 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.

### **Country of Gevrey – Background**

Gevrey is a modern developed country with a simplified tax system. Both corporations and individuals are subject to income tax at a flat rate of 40%. Reasonable operating expenses, including contributions to Eligible Retirement Plans (ERPs), reduce taxable income.

No pension legislation exists apart from the rules outlined herein.

Rules that apply to gain ERP status are as follows:

## *General*

- if a company has one or more ERPs, then all employees are entitled to be in at least one of the company's ERPs.

## *Defined Benefit Plans (DB ERPs)*

- employer contributions may not exceed those recommended by an actuary, in accordance with generally accepted actuarial practice
- employer contributions are an eligible expense to reduce the employer's taxable income
- periodic pensions may not exceed \$3,000 per annum for each year of service regardless of form or commencement age
- periodic pensions cannot commence prior to age 55
- investment earnings generated by the ERP pension fund are not taxable
- pension payments are taxed as received in the hands of the recipient
- no employee contributions are permitted
- plan sponsors have unconditional rights to a refund of surplus assets

## *Defined Contribution Plans (DC ERPs)*

- employer contributions for any individual plan member cannot exceed \$20,000 annually
- employer contributions are an eligible expense to reduce the employer's taxable income
- investment earnings generated by the ERP pension fund are not taxable until withdrawn
- benefit distributions are taxed as received in the hands of the recipient
- employer contributions may or may not be dependent on employee contributions
- individuals may contribute up to \$20,000 annually
- such contributions are tax deductible to the individual

The tax assistance available under each of the above two arrangements does not depend on the extent of participation under the other one. For example, an individual could participate in a DC ERP and, if eligible under the plans' rules, also a DB ERP of his or her employer.

## *Supplemental Retirement Plans (SRPs)*

Contributions to a retirement plan that does not meet ERP status are not tax-deductible. Benefits paid to participants under such plans are tax deductible to the company and are taxable to participants, when paid to participants. Such a plan is known as a Supplemental Retirement Plan (SRP). An example of an SRP is a plan that restores the benefits lost by the imposition of the ERP maximums.

### *Retiree Health Care Plans*

Employers in Gevrey may provide health care benefits to retirees and their spouses through a separate plan which is not intended to qualify for ERP status. Benefits (including insurance premiums) paid under such plans are tax deductible to the company when paid on behalf of participants. Benefits payable as an indemnity for health related services are not taxable to plan participants at any time.

\* \* \*

No social security pension system exists in Gevrey and there are no state-provided life or health-care benefits.

For financial reporting purposes, Gevrey adopted International Financial Reporting Standards (IFRS). NOC applied the 10% corridor for actuarial gains and losses prior to January 1, 2013. Effective January 1, 2013, Gevrey has adopted IAS 19, rev. 2011.

The investment market in Gevrey is well developed, with substantial trading in government and corporate bonds and equities.

### **Summary of National Oil's Retirement Benefits**

NOC maintains three defined benefit plans:

1. a final-average pay defined benefit ERP for its full-time salaried employees;
2. a unit benefit defined benefit ERP for its full-time hourly union staff; and
3. a non-eligible pension plan (referred to as the SRP) for its executives that is supplemental to the salaried ERP.  
This plan has no assets.

In addition, the company has a defined contribution ERP for its seasonal workforce.

Furthermore, full-time salaried and union employees retiring with the company are covered for their lifetime by health benefits.

## Extracts of Retirement Benefits Provisions and Financial Information

### National Oil Full-Time Salaried Pension Plan

Eligibility	Immediate
Vesting	100% after 5 years of service
Normal Retirement Age	65
Early Retirement Age	55 with 5 years of service
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 tax system maximum  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
Form of Benefit	If married, 50% joint & survivor benefit, without reduction. If not married, single life annuity
Optional Forms of Benefit	None
Indexing	None
Termination Benefit	Lump sum equal to actuarial present value of accrued benefit
Pre-Retirement Death Benefit	Lump sum equal to actuarial present value of accrued benefit payable to named beneficiary
Disability Benefit	None

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

	2010	2011	2012	2013	2014
<b>Participant Summary - January 1</b>					
<i>Active Participants</i>					
(a) count	4,067	3,930	3,792	3,615	3,550
(b) average age	48.5	49.0	49.4	49.8	48.5
(c) average service	18.7	19.2	19.6	19.8	18.5
(d) average future working lifetime	10.7	11.0	10.6	10.5	10.5
(e) average future working lifetime to vesting (for those not)	3.0	3.0	3.0	3.0	3.0
(f) average plan earnings (prior year)	78,000	80,000	83,000	84,000	86,900
<i>Deferred Vested Participants</i>					
(a) count	-	-	-	-	-
<i>Pensioners (incl beneficiaries)</i>					
(a) count	804	850	893	934	997
(b) average age	70.5	68.0	67.5	67.8	67.8
(c) average annual benefit	21,200	21,500	22,000	22,500	22,500
Duration of plan liabilities	16.5	16.2	16.2	16.1	16.0

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

<i>Change in Plan Assets during Prior Year:</i>					
Market Value of Assets at January 1 of prior year	875,898	982,379	1,046,845	1,119,960	1,188,240
Employer Contributions during prior year	40,526	42,348	42,698	43,336	42,391
Benefit Payments during prior year	(29,000)	(32,000)	(33,000)	(33,000)	(36,000)
Expenses during prior year	-	-	-	-	-
Investment return during prior year	94,955	54,118	63,417	57,944	66,840
Market Value of Assets at January 1 of current year	982,379	1,046,845	1,119,960	1,188,240	1,261,471
Rate of return during prior year	11%	5%	6%	5%	6%
<i>Average Portfolio Mix During Prior Year:</i>					
(a) Domestic Large Cap Equities	31%	28%	27%	25%	30%
(b) Domestic Small Cap Equities	21%	20%	19%	18%	21%
(c) Domestic Fixed Income	36%	38%	40%	43%	35%
(d) International Equities	5%	7%	6%	5%	5%
(e) Real Estate	4%	4%	5%	4%	4%
(f) Cash	3%	3%	3%	5%	5%
(g) Total	100%	100%	100%	100%	100%
Duration of Domestic Fixed Income	10.0	10.0	10.0	10.0	10.0
<i>Asset Class Returns during Prior Year:</i>					
(a) Domestic Large Cap Equities	15%	3%	2%	3%	15%
(b) Domestic Small Cap Equities	20%	8%	7%	5%	18%
(c) Domestic Fixed Income	4%	8%	10%	8%	-9%
(d) International Equities	6%	2%	3%	1%	7%
(e) Real Estate	3%	-5%	-1%	-1%	2%
(f) Cash	2%	2%	1%	1%	1%

\* numbers may not add due to rounding

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

	2010	2011	2012	2013	2014
<b>Expense Valuation - January 1 (numbers in \$000's) *</b>					
<b>1. Funded Status and Deferred Costs:</b>					
(a) Defined Benefit Obligation (DBO)					
(i) Vested	(1,121,508)	(1,245,227)	(1,297,381)	(1,335,911)	(1,177,088)
(ii) Non-vested	(84,415)	(93,727)	(97,652)	(100,552)	(88,598)
(iii) Total	(1,205,922)	(1,338,954)	(1,395,033)	(1,436,463)	(1,265,686)
(b) Fair Value of Assets	982,379	1,046,845	1,119,960	1,188,240	1,261,471
(c) Funded Status: (a) + (b)	(223,543)	(292,109)	(275,073)	(248,223)	(4,216)
(d) Unamortized net actuarial(gain)/loss	111,010	165,426	128,537	N/A	N/A
<b>2. Defined Benefit Cost included in P&amp;L</b>					
(a) Service Cost (beg. of year)	57,065	61,486	62,404	66,869	59,302
(b) Net Interest Cost	68,667	69,222	72,047	13,225	2,146
(c) Expected return on assets	(69,234)	(71,023)	(75,946)	N/A	N/A
(d) Amortization of past service cost	-	-	-	N/A	N/A
(e) Amortization of net actuarial (gain)/loss **	-	2,866	-	N/A	N/A
(f) Defined Benefit Cost included in P&L	56,498	62,551	58,505	80,094	61,448
All plan administrative expenses are paid and accounted for outside of the plan fund.					
<b>3. Actuarial Basis and Supplemental Data</b>					
(a) Discount rate	5.50%	5.00%	5.00%	4.50%	5.00%
(b) Return on assets	7.00%	6.75%	6.75%	N/A	N/A
(c) Salary scale	4.00%	4.00%	4.00%	3.50%	3.50%
(d) Consumer Price Index	3.00%	3.00%	3.00%	3.00%	3.00%
(e) Mortality			GAM83		
(f) Turnover			Based on NOC experience for 1986-1988		
(g) Proportion married and age difference			80% married; male spouses 3 years older than female spouses		
(h) Retirement age			Age 62		
(i) Expenses			Assume all expenses paid by company		
(j) Asset Valuation Method			Market value of assets		
(k) Actuarial Cost Method			Projected unit credit		
(l) Employer contributions	42,348	42,698	43,336	42,391	41,182
(m) Benefit payments	(29,000)	(32,000)	(33,000)	(33,000)	(36,000)

\* numbers may not add due to rounding

\*\* gains/losses exceeding 10% of the greater of the Benefit Obligation and the Fair Value of Assets are amortized over the average future working lifetime of active participants prior to January 1, 2013



**National Oil Full-Time Salaried Pension Plan  
Reconciliation of Plan Participants (2010 - 2014)**

	<u>Active</u>	<u>Pensioners/ Beneficiaries</u>	<u>Total</u>
<b>1. Participants as of January 1, 2010</b>	<b>4,067</b>	<b>804</b>	<b>4,871</b>
- New Entrants/Rehires	150	-	150
- Terminated Nonvested	(80)	-	(80)
- Terminated Vested (Lump Sum Cashout)	(160)	-	(160)
- Retirement	(45)	45	-
- Death w/ Beneficiary	(2)	2	-
- Death w/o Beneficiary	-	(1)	(1)
- Net change	(137)	46	(91)
<b>2. Participants as of January 1, 2011</b>	<b>3,930</b>	<b>850</b>	<b>4,780</b>
- New Entrants/Rehires	135	-	135
- Terminated Nonvested	(90)	-	(90)
- Terminated Vested (Lump Sum Cashout)	(140)	-	(140)
- Retirement	(42)	42	-
- Death w/ Beneficiary	(1)	1	-
- Death w/o Beneficiary	-	-	-
- Net change	(138)	43	(95)
<b>3. Participants as of January 1, 2012</b>	<b>3,792</b>	<b>893</b>	<b>4,685</b>
- New Entrants/Rehires	54	-	54
- Terminated Nonvested	(60)	-	(60)
- Terminated Vested (Lump Sum Cashout)	(130)	-	(130)
- Retirement	(40)	40	-
- Death w/ Beneficiary	(1)	1	-
- Death w/o Beneficiary	-	-	-
- Net change	(177)	41	(136)
<b>4. Participants as of January 1, 2013</b>	<b>3,615</b>	<b>934</b>	<b>4,549</b>
- New Entrants/Rehires	200	-	200
- Terminated Nonvested	(80)	-	(80)
- Terminated Vested (Lump Sum Cashout)	(120)	-	(120)
- Retirement	(60)	60	-
- Death w/ Beneficiary	(3)	3	-
- Death w/o Beneficiary	(2)	-	(2)
- Net change	(65)	63	(2)
<b>5. Participants as of January 1, 2014</b>	<b>3,550</b>	<b>997</b>	<b>4,547</b>

**National Oil Full-Time Salaried Pension Plan  
Age/Svc/Earnings as of January 1, 2014**

Age (Years)	# Participants	Average Salary	Service (Years)					Totals	
			< 5	5-10	10-15	15-20	>20		
< 25	20	50,000	20	60,000	-	-	-	40	55,000
25-35	100	65,000	40	70,000	110	110	-	360	73,200
35-45	70	75,000	60	80,000	200	200	200	730	85,000
45-55	80	75,000	50	85,000	150	400	700	1,380	96,000
55-65	10	75,000	60	8,500	80	220	600	970	82,800
> 65	-	-	-	-	50	20	-	70	72,900
Totals	280	69,600	230	59,000	590	950	1,500	3,550	86,900

Avg Age 48.5  
Avg Svc 18.5  
Avg Salary 86,900

National Oil Full-Time Salaried Supplemental Retirement Plan (SRP)

Eligibility	Immediate
Normal Retirement Age	65
Early Retirement Age	55 with 5 years of service
Accrued Benefit	Accrued Benefit calculated under the provisions of the Salaried Pension Plan without regard to tax system 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
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  
 Historical Valuation Results - January 1

	2010	2011	2012	2013	2014
<b>Participant Summary</b>					
1. Active Participants					
(a) count	59	57	59	57	53
(b) average age	54.9	55.2	55.7	56.0	56.5
(c) average service	19.4	19.7	20.2	20.5	20.8
(d) average future working lifetime	5.7	5.5	5.3	5.1	5.0
(e) average future working lifetime to vesting (for those not)	2.0	2.0	2.0	2.0	2.0
(f) average plan earnings (prior year)	360,000	370,000	400,000	410,000	430,000
2. Deferred Vested Participants					
(a) count	-	-	-	-	-
3. Pensioners (incl beneficiaries)					
(a) count	23	25	28	30	32
(b) average age	66.1	66.5	67.0	67.3	67.0
(c) average annual benefit	15,300	15,800	16,000	16,500	16,600
Duration of plan liabilities	14.5	14.0	14.5	14.0	16.0

Expense Valuation Results (numbers in \$000's) \*

1. Funded Status and Deferred Costs:					
(a) Defined Benefit Obligation (DBO)					
(i) Vested	(35,746)	(41,942)	(46,392)	(54,170)	(61,327)
(ii) Non-vested	(11,915)	(13,981)	(15,464)	(18,057)	(20,442)
(iii) Total	(47,662)	(55,923)	(61,857)	(72,227)	(81,769)
(b) Fair Value of Assets	-	-	-	-	-
(c) Funded Status: (a) + (b)	(47,662)	(55,923)	(61,857)	(72,227)	(81,769)
(d) Unamortized net actuarial (gain)/loss	7,219	11,293	12,288	N/A	N/A
2. Defined Benefit Cost included in P&L					
(a) Service cost (beg. of year)	1,419	1,439	1,658	1,674	1,677
(b) Net Interest Cost	2,690	2,858	3,165	3,314	3,951
(c) Expected ROA	-	-	-	-	-
(d) Amort of past service cost	-	-	-	N/A	N/A
(e) Amort of unrec (gain)/loss **	430	1,036	1,151	N/A	N/A
(f) Defined Benefit Cost included in P&L	4,539	5,333	5,974	4,988	5,628
All plan administrative expenses are paid out of general assets of NOC (outside of plan accounting).					
3. Benefit Payments	352	395	448	495	531
4. Actuarial Basis					
(a) Discount rate	5.50%	5.00%	5.00%	4.50%	4.75%
(b) Return on assets	N/A	N/A	N/A	N/A	N/A
(c) Salary scale	3.50%	3.50%	3.50%	3.50%	3.50%
(d) CPI	3.00%	3.00%	3.00%	3.00%	3.00%
(e) All other assumptions	Same as for Full-time Salaried Pension Plan				

\* numbers may not add due to rounding

\*\* gains/losses exceeding 10% of the greater of the Benefit Obligation and the Fair Value of Assets are amortized over the average future working lifetime of active participants prior to January 1, 2013

National Oil Full-Time Hourly Union Pension Plan

Eligibility	Immediate
Vesting	100% after 5 years of service
Normal Retirement Age	65
Early Retirement Age	55 with 10 years of service
Normal Retirement Benefit	\$80 per month times years of service for terminations/ retirements prior to 2010  \$81 per month times years of service for terminations/ retirements during 2010 and beyond
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.
Form of Benefit	If married, 50% joint & survivor benefit without reduction  If not married, single life annuity.
Optional Forms of Benefit	None
Post-Retirement Indexing	Lesser of 1% or CPI each year after pension commencement
Termination Benefit	Lump sum equal to actuarial present value of accrued benefit assuming no indexing
Pre-Retirement Death Benefit	Lump sum equal to actuarial present value of accrued benefit assuming no indexing, payable to named beneficiary
Disability Benefit	None

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

	2010	2011	2012	2013	2014
<b>Participant Summary - January 1</b>					
<i>Active Participants</i>					
(a) count	6,285	6,262	6,272	6,220	6,135
(b) average age	49.4	50.0	50.8	50.8	50.0
(c) average service	19.8	20.4	21.0	21.0	21.0
(d) average future working lifetime	10.3	10.1	9.9	9.5	10.0
(e) average future working lifetime to vesting (for those not)	3.4	3.3	3.2	3.2	3.3
(f) average plan earnings (prior year)	43,000	44,000	45,000	44,900	46,600
<i>Deferred Vested Participants</i>					
(a) count	-	-	-	-	-
<i>Pensioners (incl beneficiaries)</i>					
(a) count	1,130	1,153	1,173	1,205	1,237
(b) average age	71.9	72.2	72.4	72.7	72.0
(c) average annual benefit	11,500	11,600	11,700	11,700	11,500
Duration of plan liabilities	14.1	14.1	14.2	14.1	14.1

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

<i>Change in Plan Assets during Prior Year:</i>					
Market Value of Assets at January 1 of prior year	617,450	670,766	744,375	838,061	924,929
Employer Contributions during prior year	40,000	40,000	40,000	40,000	40,000
Benefit Payments during prior year	(17,000)	(18,000)	(18,000)	(18,000)	(20,000)
Expenses during prior year	-	-	-	-	-
Investment return during prior year	30,315	51,610	71,685	64,868	(70,120)
Market Value of Assets at January 1 of current year	670,766	744,375	838,061	924,929	874,809
Rate of return during prior year	5%	8%	9%	8%	-8%
<i>Average Portfolio Mix During Prior Year:</i>					
(a) Domestic Large Cap Equities	8%	5%	3%	3%	5%
(b) Domestic Small Cap Equities	0%	0%	0%	0%	0%
(c) Domestic Fixed Income	89%	92%	94%	94%	92%
(d) International Equities	0%	0%	0%	0%	0%
(e) Real Estate	0%	0%	0%	0%	0%
(f) Cash	3%	3%	3%	3%	3%
(g) Total	100%	100%	100%	100%	100%
Duration of Domestic Fixed Income	15.0	15.0	15.0	15.0	15.0
<i>Asset Class Returns during Prior Year:</i>					
(a) Domestic Large Cap Equities	15%	3%	2%	3%	15%
(b) Domestic Small Cap Equities	20%	8%	7%	5%	18%
(c) Domestic Fixed Income	4%	8%	10%	8%	-9%
(d) International Equities	6%	2%	3%	1%	7%
(e) Real Estate	3%	-5%	-1%	-1%	2%
(f) Cash	2%	2%	1%	1%	1%

\* numbers may not add due to rounding

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

	2010	2011	2012	2013	2014
<b>1. Funded Status and Deferred Costs:</b>					
(active multiplier)	\$	\$	\$	\$	\$
(a) Defined Benefit Obligation (DBO)	81	81	81	81	81
(i) Vested	(811,668)	(907,401)	(971,977)	(969,479)	(866,506)
(ii) Non-vested	(42,719)	(47,758)	(51,157)	(51,025)	(45,606)
(iii) Total	(854,387)	(955,159)	(1,023,134)	(1,020,505)	(912,112)
(b) Fair Value of Assets	670,766	744,375	838,061	924,929	874,809
(c) Funded Status: (a) + (b)	(183,621)	(210,783)	(185,073)	(95,576)	(37,303)
(d) Unamortized past service costs	8,722	123	72	N/A	N/A
(e) Unamortized net actuarial (gain)/loss	132,858	151,756	114,629	N/A	N/A
<b>2. Defined Benefit Cost included in P&amp;L</b>					
(a) Service Cost (beg. of year)	36,087	39,977	41,951	41,604	36,055
(b) Net Interest Cost	48,509	49,307	52,804	5,859	2,660
(c) Expected return on assets	(40,936)	(43,434)	(48,821)	N/A	N/A
(d) Amortization of past service cost	51	51	51	N/A	N/A
(e) Amortization of net actuarial (gain)/loss **	4,604	5,568	1,244	N/A	N/A
(f) Immediate recognition of past service costs & (gains)/losses ***	8,548	-	-	-	-
(g) Defined Benefit Cost included in P&L	56,863	51,469	47,230	47,463	38,715
All plan administrative expenses are paid and accounted for outside of the plan fund.					
<b>3. Actuarial Basis and Supplemental Data</b>					
(a) Discount rate	5.50%	5.00%	5.00%	5.00%	5.50%
(b) Return on assets	6.00%	5.75%	5.75%	N/A	N/A
(c) Salary scale	N/A	N/A	N/A	N/A	N/A
(d) Consumer Price Index	3.00%	3.00%	3.00%	3.00%	3.00%
(e) Mortality		GAM83			
(f) Turnover		Based on NOC experience for 1986-1988			
(g) Retirement age		Age 62, with appropriate early retirement reduction, if any			
(h) Proportion married and age difference		80% married, male spouses 3 years older than female spouses			
(i) Expenses		Assume all expenses paid by company			
(j) Post-retirement indexing	1.00%	1.00%	1.00%	1.00%	1.00%
(k) Asset Valuation Method		Market value of assets			
(l) Actuarial Cost Method		Projected unit credit			
(m) Employer contributions	40,000	40,000	40,000	40,000	50,000
(n) Benefit payments	(17,000)	(18,000)	(18,000)	(18,000)	(20,000)

\* numbers may not add due to rounding

\*\* gains/losses exceeding 10% of the greater of the Accrued Benefit Obligation and the Fair Value of Assets are amortized over the average future working lifetime of active participants prior to January 1, 2013

\*\*\* A plan change was recognized January 1, 2010 increasing the Benefit Obligation \$8,722 million (\$174,000 was for non-vested and \$8,548 million was vested).

**National Oil Full-Time Hourly Union Pension Plan  
Reconciliation of Plan Participants (2010 - 2014)**

	<u>Active</u>	<u>Pensioners/ Beneficiaries</u>	<u>Total</u>
<b>1. Participants as of January 1, 2010</b>	<b>6,285</b>	<b>1,130</b>	<b>7,415</b>
- New Entrants/Rehires	120	-	120
- Terminated Nonvested	(50)	-	(50)
- Terminated Vested (Lump Sum Cashout)	(70)	-	(70)
- Retirement	(25)	25	-
- Death w/ Beneficiary	(1)	1	-
- Death w/o Beneficiary	3	(3)	-
- Net change	(23)	23	-
<b>2. Participants as of January 1, 2011</b>	<b>6,262</b>	<b>1,153</b>	<b>7,415</b>
- New Entrants/Rehires	130	-	130
- Terminated Nonvested	(40)	-	(40)
- Terminated Vested (Lump Sum Cashout)	(60)	-	(60)
- Retirement	(20)	20	-
- Death w/ Beneficiary	-	-	-
- Death w/o Beneficiary	-	-	-
- Net change	10	20	30
<b>3. Participants as of January 1, 2012</b>	<b>6,272</b>	<b>1,173</b>	<b>7,445</b>
- New Entrants/Rehires	100	-	100
- Terminated Nonvested	(50)	-	(50)
- Terminated Vested (Lump Sum Cashout)	(70)	-	(70)
- Retirement	(30)	30	-
- Death w/ Beneficiary	(1)	1	-
- Death w/o Beneficiary	(1)	1	-
- Net change	(52)	32	(20)
<b>4. Participants as of January 1, 2013</b>	<b>6,220</b>	<b>1,205</b>	<b>7,425</b>
- New Entrants/Rehires	150	-	150
- Terminated Nonvested	(80)	-	(80)
- Terminated Vested (Lump Sum Cashout)	(100)	-	(100)
- Retirement	(50)	30	(20)
- Death w/ Beneficiary	(2)	2	-
- Death w/o Beneficiary	(3)	-	(3)
- Net change	(85)	32	(53)
<b>5. Participants as of January 1, 2014</b>	<b>6,135</b>	<b>1,237</b>	<b>7,372</b>



National Oil Full-Time Hourly Union Pension Plan  
 Age/Svc/Earnings as of January 1, 2014

Age (Years)	# Participants	Service (Years)							Totals
		<5	5-10	10-15	15-20	>20			
< 25	50	50	50	-	-	-	-	100	
	Average Salary	30,000	35,000	-	-	-	-	32,500	
25-35	100	45	100	100	-	-	-	245	
	Average Salary	30,000	40,000	45,000	-	-	-	38,000	
35-45	50	130	100	700	700	-	-	1,680	
	Average Salary	30,000	35,000	45,000	50,000	45,000	-	45,900	
45-55	50	50	100	400	1,400	-	-	2,000	
	Average Salary	35,000	40,000	55,000	50,000	50,000	-	50,600	
55-65	50	50	100	200	1,300	-	-	1,700	
	Average Salary	35,000	36,000	45,000	45,000	50,000	-	48,300	
> 65	-	10	100	100	200	-	-	410	
	Average Salary	-	25,000	30,000	35,000	30,000	-	31,100	
Totals	300	335	500	1,400	3,600	-	-	6,135	
	Average Salary	31,700	36,300	44,000	49,600	47,900	-	46,600	

Avg Age 50.0  
 Avg Svc 21.0  
 Avg Salary 46,600

National Oil Part-Time DC Pension Plan

Eligibility	Immediate
Vesting	Immediate
Employee Contributions	Employee may defer between 1% to 20% of pay
Employer Contributions	3% of pay
Plan Fund Investment Options	The employer invests in funds elected by employee
Account Balance	Contributions are accumulated in member's individual account earning a rate of return based on the investments elected by the employee
Loans/Withdrawals	Not permitted.
Benefit on Termination or Retirement	Account balance is payable to employee upon termination or retirement. Employee has the option to leave the balance in the fund or withdraw entire balance immediately upon termination or retirement.
Benefit on Death	Account balance is payable to named beneficiary

National Oil Part-Time DC Pension Plan  
 Historical Results - January 1

2010 2011 2012 2013 2014

Participant Summary

(a) number participating during prior year	6,400	6,300	6,500	6,700	6,900
(b) average age	29.3	28.8	28.0	28.0	27.0
(c) average pay	32,300	33,000	34,000	36,000	37,000

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

<i>Change in Plan Assets during Prior Year:</i>					
Market Value of Assets at January 1 of prior year	65,632	74,104	81,296	87,825	97,573
Employee Contributions during prior year	10,336	10,395	11,050	12,060	12,765
Company Contributions during prior year	6,202	6,237	6,630	7,236	7,659
Benefit Payments during prior year	(13,440)	(13,230)	(13,650)	(14,070)	(14,490)
Expenses during prior year	-	-	-	-	-
Investment return during prior year	5,374	3,790	2,499	4,522	6,032
Market Value of Assets at January 1 of current year	74,104	81,296	87,825	97,573	109,540
Rate of return during prior year	8%	5%	3%	5%	6%

\* 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% the of cost of the plan paid by the employer.
Pre-retirement / termination benefits	None
Spousal Coverage	Coverage continues for the life of the spouse after death of an eligible employee
Benefits Covered	\$0 deductible; \$0 copay No lifetime maximum Office visits Hospital visits Surgery Prescription drugs
Life Insurance benefit	Effective January 1, 2010: introduced \$50,000 life insurance benefit payable upon death after retirement

Retiree Health and Welfare Program  
Historical Valuation Results

2010                      2011                      2012                      2013                      2014

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

1. Funded Status and Deferred Costs:					
(a) Defined Benefit Obligation (DBO)					
(i) actives - fully vested	(724,363)	(806,700)	(924,061)	(1,032,703)	(1,031,105)
(ii) actives - not fully vested	(316,909)	(345,728)	(396,026)	(442,587)	(441,902)
(iii) retirees	(735,661)	(848,530)	(960,883)	(1,069,370)	(1,102,404)
(iv) total	(1,776,933)	(2,000,958)	(2,280,970)	(2,544,660)	(2,575,411)
(b) Fair Value of Assets	0	0	0	0	0
(c) Surplus: (a) + (b)	(1,776,933)	(2,000,958)	(2,280,970)	(2,544,660)	(2,575,411)
(d) Unrecognized past service costs	20,000	17,318	14,636	N/A	N/A
(e) Unrecognized (gain)/loss	283,624	365,754	492,158	N/A	N/A
2. Defined Benefit Cost included in P&L					
(a) Service cost (beg. of year)	63,425	72,027	82,505	92,206	92,063
(b) Net Interest Cost	100,340	102,724	117,124	117,579	125,446
(c) Expected ROA	0	0	0	N/A	N/A
(d) Amort of past service cost	2,682	2,682	2,682	N/A	N/A
(e) Amort of unrec (gain)/loss **	10,130	15,857	25,981	N/A	N/A
(f) Defined Benefit Cost included in P&L	176,577	193,290	228,292	209,785	217,509
All plan administrative and claims expenses are included in the claims costs used to determine the plan liability.					
3. Benefit Payments	32,000	37,000	42,000	48,000	53,000
4. Average Future Working Lifetime to Retirement	10.46	10.45	10.16	9.87	10.18
5. Average Future Working Lifetime to FEA	7.46	7.45	7.16	6.87	7.18
6. Average Future Working Lifetime to Fully Vested (for those not vested)	7.46	7.45	7.16	6.87	7.18
7. Duration of plan liabilities	12.0	12.0	12.0	12.0	12.0
8. Actuarial Assumptions:					
(a) Discount rate	5.50%	5.00%	5.00%	4.50%	4.75%
(b) Return on assets	N/A	N/A	N/A	N/A	N/A
(c) Medical trend					
Initial rate	6.00%	5.50%	6.00%	6.00%	5.50%
Annual decrease	0.50%	0.50%	0.50%	0.50%	0.50%
Ultimate rate	4.50%	4.50%	5.00%	5.00%	4.50%
Year ultimate trend rate reached	2013	2013	2014	2015	2015
(d) CPI	3.00%	3.00%	3.00%	3.00%	3.00%
(e) Per capita claims cost	12,000	13,000	14,500	15,500	16,500
(f) Retirement assumption	Age 62 with 10 years of service				
(g) All other demographic assumptions	Same as those used for pension plans				

\* numbers may not add due to rounding

\*\* gains/losses exceeding 10% of the Benefit Obligation are amortized over the average future working lifetime of active participants prior to January 1, 2013