



Case Study

SPRING 2016

Design & Accounting Exam-U.S.

EXAM RETDAU

U.S. 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

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 GAAP Accounting Standards.

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, eligible 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

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

2015	2016
2013	201

Participant Summary - January 1		
Active Participants		
(a) count	3,550	3,280
(b) average age	48.5	49.0
(c) average service	18.5	19.0
(d) average future working lifetime	10.5	10.2
(e) average future working lifetime to vesting (for those not)	3.0	3.0
(f) average plan earnings (prior year)	86,900	89,800
Deferred Vested Participants		
(a) count	-	-
Pensioners (incl beneficiaries)		
(a) count	997	1,080
(b) average age	67.8	67.3
(c) average annual benefit	22,750	23,000
Duration of plan liabilities	14.4	15.0

Plan Assets (numbers in \$000's) *		
Change in Plan Assets during Prior Year:		
Market Value of Assets at January 1 of prior year	1,252,276	1,344,520
Employer Contributions during prior year	42,391	41,182
Benefit Payments during prior year	(21,000)	(22,700)
Expenses during prior year	(21,000)	(22,700)
Investment return during prior year	70,853	80,549
Market Value of Assets at January 1 of current year	1,344,520	1,443,551
Rate of return during prior year	5.61%	5.95%
Average Portfolio Mix During Prior Year:		
(a) Domestic Large Cap Equities	30%	32%
(b) Domestic Small Cap Equities	21%	22%
(c) Domestic Fixed Income	35%	34%
(d) International Equities	5%	4%
(e) Real Estate	4%	3%
(f) Cash	<u>5%</u>	<u>5%</u>
(g) Total	100%	100%
Duration of Domestic Fixed Income	10.0	10.0
Asset Class Returns during Prior Year:		
(a) Domestic Large Cap Equities	15%	7%
(b) Domestic Small Cap Equities	18%	8%
(c) Domestic Fixed Income	-9%	6%
(d) International Equities	7%	-5%
(e) Real Estate	2%	2%
(f) Cash	1%	1%

	2015	2016
Expense Valuation - January 1 (numbers in \$000's) *		
Funded Status and Deferred Costs:		
(a) Accumulated Benefit Obligation	(928,449)	(1,034,173)
(b) Projected Benefit Obligation		
(i) Vested	(1,151,276)	(1,282,375)
(ii) Non-vested	(86,655)	(96,523)
(iii) Total	(1,237,931)	(1,378,898)
(c) Fair Value of Assets	1,344,520	1,443,551
(d) Funded Status: (b) + (c)	106,589	64,653
(e) Unrecognized (gains)/losses	(265,733)	(203,656)
2. Net Periodic Benefit Cost		
(a) Service Cost (beg. of year)	57,342	64,067
(b) Interest Cost	64,196	57,223
(c) Expected return on assets	(87,994)	(94,325)
(d) Amortization of past service cost	· · · · · ·	· -
(e) Amortization of net actuarial (gain)/loss	(12,503)	(5,814)
(f) Total Net Periodic Benefit Cost	21,041	13,093
All plan administrative expenses are paid and accounted for or	· · · · · · · · · · · · · · · · · · ·	
3. Actuarial Basis and Supplemental Data		
(a) Discount rate	5.00%	4.00%
(b) Return on assets	6.50%	6.50%
(c) Salary scale	3.50%	3.50%
(d) Consumer Price Index	3.00%	3.00%
(e) Mortality	GAM83	
(f) Turnover	Based on NOC experience for 2000-	-2005
(g) Proportion married and age difference	80% married; male spouses 3 years older than	
(h) Retirement age	Age 62	
(i) Expenses	Assume all expenses paid by comp	pany
(j) Asset Valuation Method	Market value of assets	•
(k) Actuarial Cost Method	Projected unit credit	
(I) Expected Employer contributions	41,182	40,002
(m) Expected Benefit payments	(22,700)	(24,800)
* numbers may not add due to rounding		
,		

National Oil Full-Time Salaried Pension Plan Reconciliation of Plan Participants

	Active	Pensioners/ Beneficiaries	Total
Participants as of January 1, 2015	3,550	997	4,547
 New Entrants/Rehires Terminated Nonvested Terminated Vested (Lump Sum Cashout) Retirement Death w/ Beneficiary Death w/o Beneficiary Net change 	45 (30) (200) (80) (3) (2) (270)	- - - 80 3 - 83	45 (30) (200) - - (2) (187)
Participants as of January 1, 2016	3,280	1,080	4,360

National Oil Full-Time Salaried Pension Plan Age/Svc/Earnings as of January 1, 2016

Age (Years)

		۷ ک	Se 5-10	Service (Years) 10-15	15-20	>20	Totals
< 25	# Participants Average Salary	20 60,000	20 65,000	1 1	1 1		40 62,500
25-35	# Participants Average Salary	100	40 75,000	110 85,000	110		360 75,100
35-45	# Participants Average Salary	70 80,000	60 85,000	200 85,000	100	150 95,000	580 87,800
45-55	# Participants Average Salary	80 80,000	90,000	150 95,000	300 95,000	720 100,000	1,300 96,700
55-65	# Participants Average Salary	10 80,000	60 85,000	80 000,000	220 90,000	260 90,000	930 89,600
> 65	# Participants Average Salary	1 1		50 70,000	20 80,000		70 72,900
Totals	# Participants Average Salary	280 75,000	230 82,600	590 86,900	750 88,800	1,430 95,600	3,280 89,800
	Avg Age Avg Svc Avg Salary	49.0 19.0 89,800					

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

Eligibility Immediate

Normal Retirement Age 65

Early Retirement Age 55 with 5 years of service

Salaried Pension Plan without regard to tax system maximums less 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

Participant Summary

1. Active Participants		
(a) count	53	50
(b) average age	56.5	57.0
(c) average service	20.8	21.0
(d) average future working lifetime	5.0	4.8
(e) average future working lifetime to vesting (for those not)	2.0	2.0
(f) average plan earnings (prior year)	430,000	450,000
Deferred Vested Participants		
(a) count	-	-
3. Pensioners (incl beneficiaries)		
(a) count	32	35
(b) average age	67.0	66.8
(c) average annual benefit	16,600	16,800
Duration of plan liabilities	15.0	15.5

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

Funded Status and Deferred Costs:		
(a) Accumulated Benefit Obligation	(32,960)	(38,881)
(b) Projected Benefit Obligation		
(i) Vested	(54,934)	(64,801)
(ii) Non-vested	(18,311)	(21,600)
(iii) Total	(73,245)	(86,401)
(c) Fair Value of Assets	-	-
(d) Funded Status: (b) + (c)	(73,245)	(86,401)
(e) Unrecognized (gains)/losses	13,563	20,714
2. Net Periodic Benefit Cost		
(a) Service cost (beg. of year)	1,739	1,901
(b) Interest Cost	3,549	3,520
(c) Expected ROA	-	=
(d) Amort of past service cost	-	-
(e) Amort of unrec (gain)/loss	1,248	2,515
(f) Total Net Periodic Benefit Cost	6,535	7,937
All plan administrative expenses are paid out of general assets of	NOC (outside of plan accounting).	
3. Expected Benefit Payments	531	588
4. Actuarial Basis		
(a) Discount rate	4.75%	4.00%
(b) Return on assets	N/A	N/A
(c) Salary scale	3.50%	3.50%
(d) CPI	3.00%	3.00%
(e) All other assumptions	Same as for Full-time Salaried Pension	Plan

^{*} numbers may not add due to rounding

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

benefit assuming no indexing, payable to named beneficiary

Disability Benefit None

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

2015 2016

Participant Summary - January 1		
Active Participants		
(a) count	6,135	5,930
(b) average age	50.0	50.0
(c) average service	21.0	20.5
(d) average future working lifetime	10.0	9.8
(e) average future working lifetime to vesting (for those not)	3.3	3.0
(f) average plan earnings (prior year)	46,600	49,000
Deferred Vested Participants		
(a) count	-	-
Pensioners (incl beneficiaries)		
(a) count	1,237	1,299
(b) average age	72.0	71.0
(c) average annual benefit	11,500	11,750
Duration of plan liabilities	14.1	15.0

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

Change in Plan Assets during Prior Year:		
Market Value of Assets at January 1 of prior year	946,028	900,101
Employer Contributions during prior year	40,000	50,000
Benefit Payments during prior year	(14,000)	(14,000)
Expenses during prior year	-	-
Investment return during prior year	(71,927)	54,352
Market Value of Assets at January 1 of current year	900,101	990,452
Rate of return during prior year	-7.50%	5.92%
Average Portfolio Mix During Prior Year:		
(a) Domestic Large Cap Equities	5%	7%
(b) Domestic Small Cap Equities	0%	0%
(c) Domestic Fixed Income	92%	90%
(d) International Equities	0%	0%
(e) Real Estate	0%	0%
(f) Cash	<u>3%</u>	<u>3%</u>
(g) Total	100%	100%
Duration of Domestic Fixed Income	15.0	15.0
Asset Class Returns during Prior Year:		
(a) Domestic Large Cap Equities	15%	7%
(b) Domestic Small Cap Equities	18%	8%
(c) Domestic Fixed Income	-9%	6%
(d) International Equities	7%	-5%
(e) Real Estate	2%	2%
(f) Cash	1%	1%

^{*} numbers may not add due to rounding

2015 2016

(active multiplier)	Funded Status and Deferred Costs:		
(a) Accumulated Benefit Obligation (b) Projected Benefit Obligation (i) Vested (ii) Non-vested (iii) Total (iii) T		81 00	81 00
(b) Projected Benefit Obligation (i) Vested (866,506) (947,147) (ii) Non-vested (45,606) (49,850) (iii) Total (912,112) (996,997) (c) Fair Value of Assets 900,101 990,452 (d) Funded Status: (b) + (c) (12,011) (6,545) (e) Unrecognized prior service costs 5,335 4,488 (f) Unrecognized gians)/losses (60,506) (51,000) 2. Net Periodic Benefit Cost (a) Service Cost (beg. of year) 36,055 41,124 (b) Interest Cost (25,791) (57,957) (d) Amortization of past service cost (52,791) (57,957) (d) Amortization of past service cost & (gains)/losse 7			
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(b) Interest Cost (c) Expected return on assets (d) Amortization of past service cost (d) Amortization of past service cost (e) Amortization of net actuarial (gain)/loss (f) Immediate recognition of past service costs & (gains)/losses (g) Total Net Periodic Benefit Cost All plan administrative expenses are paid and accounted for outside of the plan fund. 3. Actuarial Basis and Supplemental Data (a) Discount rate (b) Return on assets (c) Salary scale (d) Consumer Price Index (e) Mortality (f) Turnover (g) Retirement age (h) Proportion married and age difference (g) Retirement and age difference (g) Retirement indexing (h) Proportion married and age difference (g) Respenses (g) Post-retirement indexing (h) Actuarial Cost Method (h) Expected Employer contributions (51,764 (62,791) (67,797) (67,957) (67,9	(a) Service Cost (beg. of year)	36,055	41,124
(d) Amortization of past service cost (e) Amortization of net actuarial (gain)/loss (f) Immediate recognition of past service costs & (gains)/losses (g) Total Net Periodic Benefit Cost All plan administrative expenses are paid and accounted for outside of the plan fund. 3. Actuarial Basis and Supplemental Data (a) Discount rate (b) Return on assets (c) Salary scale (d) Consumer Price Index (e) Mortality (f) Turnover (g) Retirement age (h) Proportion married and age difference (i) Expenses (i) Expenses (i) Expenses (i) Post-retirement indexing (ii) Acset Valuation Method (iii) Expected Employer contributions 847 847 847 847 847 847 847 84		51,764	46,378
(d) Amortization of past service cost (e) Amortization of net actuarial (gain)/loss (f) Immediate recognition of past service costs & (gains)/losses (g) Total Net Periodic Benefit Cost All plan administrative expenses are paid and accounted for outside of the plan fund. 3. Actuarial Basis and Supplemental Data (a) Discount rate (b) Return on assets (c) Salary scale (d) Consumer Price Index (e) Mortality (f) Turnover (g) Retirement age (h) Proportion married and age difference (i) Expenses (i) Expenses (i) Expenses (i) Post-retirement indexing (ii) Acset Valuation Method (iii) Expected Employer contributions 847 847 847 847 847 847 847 84	(c) Expected return on assets	(52,791)	(57,957)
(f) Immediate recognition of past service costs & (gains)/losses - (g) Total Net Periodic Benefit Cost 35,876 30,391 All plan administrative expenses are paid and accounted for outside of the plan fund. 3. Actuarial Basis and Supplemental Data (a) Discount rate (b) Return on assets (c) Salary scale (d) Consumer Price Index (e) Mortality (f) Turnover (g) Retirement age (h) Proportion married and age difference (i) Expenses (j) Post-retirement indexing (k) Asset Valuation Method (m) Expected Employer contributions - (30,391 35,876 30,391 30,391 4.50% 4.50% 5.75% 5.75% 5.75% 5.75% 5.75% 5.75% 5.75% 5.75% 5.75% 5.75% 5.75% 5.75% 5.75% 5.75% 5.75% 5.75% 5.75% 5.75% 5.75% 6. Salary scale N/A ANA N/A N/A SABSB GAM83 Foliation Age 62, with appropriate early retirement reduction, if any Age 62, with appropriate early retirement reduction, if any Assume all expenses paid by company 1.00% Market value of assets Projected unit credit (m) Expected Employer contributions 50,000			
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All plan administrative expenses are paid and accounted for outside of the plan fund. 3. Actuarial Basis and Supplemental Data (a) Discount rate (b) Return on assets (c) Salary scale (d) Consumer Price Index (e) Mortality (f) Turnover (g) Retirement age (h) Proportion married and age difference (i) Expenses (i) Expenses (j) Post-retirement indexing (k) Asset Valuation Method (l) Actuarial Cost Method (m) Expected Employer contributions 4.50% 5.75% 5.75% 5.75% 5.75% 5.75% 7.76% 8.0%	(f) Immediate recognition of past service costs & (gains)/losses	-	-
3. Actuarial Basis and Supplemental Data (a) Discount rate (b) Return on assets (c) Salary scale (d) Consumer Price Index (e) Mortality (f) Turnover (g) Retirement age (h) Proportion married and age difference (i) Expenses (i) Expenses (j) Post-retirement indexing (k) Asset Valuation Method (l) Actuarial Cost Method (m) Expected Employer contributions 5.50% 4.50% 5.75% 5.75% N/A N/A N/A S.00% 6. MyA 3.00% 6. MyA 4.50% 6. MyA 6. M	(g) Total Net Periodic Benefit Cost	35,876	30,391
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(a) Discount rate 5.50% 4.50% (b) Return on assets 5.75% 5.75% (c) Salary scale N/A N/A (d) Consumer Price Index 3.00% 3.00% (e) Mortality GAM83 (7) (f) Turnover Based on NOC experience for 2000-2005 (9) (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 1.00% 1.00% (k) Asset Valuation Method Market value of assets (l) Actuarial Cost Method Projected unit credit (m) Expected Employer contributions 50,000 50,000	3 Actuarial Rasis and Supplemental Data		
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(m) Expected Employer contributions 50,000			
() = 1 = 1 = 1 = 1 = 1 = 1		•	50,000
	(n) Expected Benefit payments	(14,000)	(15,000)

^{*} numbers may not add due to rounding

National Oil Full-Time Hourly Union Pension Plan Reconciliation of Plan Participants

	Active	Pensioners/ Beneficiaries	Total
1. Participants as of January 1, 2015	6,135	1,237	7,372
- New Entrants/Rehires	10	-	10
- Terminated Nonvested	(70)	-	(70)
- Terminated Vested (Lump Sum Cashout)	(80)	-	(80)
- Retirement	(60)	60	-
- Death w/ Beneficiary	(2)	2	-
- Death w/o Beneficiary	(3)	-	(3)
- Net change	(205)	62	(143)
2. Participants as of January 1, 2016	5,930	1,299	7,229

National Oil Full-Time Hourly Union Pension Plan Age/Svc/Earnings as of January 1, 2016

			v 5	Se 5-10	Service (Years) 10-15	15-20	>20	Totals
Age (Years)	< 25	# Participants Average Salary	50 35,000	50 40,000	1 1			100 37,500
	25-35	# Participants Average Salary	100	40,000	100			240 37,900
	35-45	# Participants Average Salary	50 30,000	130 35,000	100 45,000	700 50,000	700 45,000	1,680 45,900
	45-55	# Participants Average Salary	50 40,000	50 45,000	100	400	1,300	1,900 56,400
	55-65	# Participants Average Salary	50 35,000	50 36,000	100 45,000	200 50,000	1,200	1,600 48,800
	> 65	# Participants Average Salary	1 1	30,000	100 30,000	100	200 40,000	410 37,300
	Totals	# Participants Average Salary	300 33,300	330 37,900	500 43,000	1,400 49,300	3,400 52,200	5,930 49,000
		Avg Age Avg Svc Avg Salary	50.0 20.5 49,000					

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 Account balance is payable to employee upon termination or retirement. Employee has the option to

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

2015 2016

Participant Summary

(a) number participating during prior year	6,900	7,100
(b) average age	27.0	29.0
(c) average pay	37,000	39,000

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

Change in Plan Assets during Prior Year:		
Market Value of Assets at January 1 of prior year	97,573	109,540
Employee Contributions during prior year	12,765	13,845
Company Contributions during prior year	7,659	8,307
Benefit Payments during prior year	(14,490)	(14,910)
Expenses during prior year	-	-
Investment return during prior year	6,032	5,658
Market Value of Assets at January 1 of current year	109,540	122,440
Rate of return during prior year	6.00%	5.00%

^{*} 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

Effective January 1, 2010: introduced \$50,000 life insurance Life Insurance benefit

benefit payable upon death after retirement

2015 2016

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

Funded Status and Deferred Costs:		
(a) Assumed the different part of Danselli Oli Victoria		
(a) Accumulated Postretirement Benefit Obligation	(4.024.405)	(4.040.466)
(i) actives - fully vested	(1,031,105)	(1,218,466)
(ii) actives - not fully vested	(441,902)	(522,200)
(iii) retirees	(1,102,404)	(1,387,852)
(iv) total	(2,575,411)	(3,128,517)
(b) Fair Value of Assets	(0.575.444)	(0.400.547)
(c) Surplus: (a) + (b)	(2,575,411)	(3,128,517)
(d) Unamortized past service costs	9,272	6,590
(e) Unamortized (gain)/loss	409,001	782,724
2. Net Periodic Benefit Cost		
(a) Service cost (beg. of year)	92,063	108,792
(b) Interest Cost	125,446	120,274
(c) Expected ROA	0	0
(d) Amort of past service cost	2,682	2,682
(e) Amort of unrec (gain)/loss	14,873	47,259
(f) Total Net Periodic Benefit Cost	235,065	279,007
All plan administrative and claims expenses are included in	the claims costs used to determine the plan	liability.
3. Expected Benefit Payments	53,000	60,000
4. Average Future Working Lifetime to Retirement	10.18	9.94
5. Average Future Working Lifetime to FEA	7.18	6.94
Average Future Working Lifetime to Fully Vested	7.18	6.94
(for those not vested)		
7. Duration of plan liabilities	12.00	13.00
8. Actuarial Assumptions:		
(a) Discount rate	4.75%	3.75%
(b) Return on assets	N/A	N/A
(c) Medical trend		
Initial rate	5.50%	6.00%
Annual decrease	0.50%	0.50%
Ultimate rate	4.50%	4.50%
Year ultimate trend rate reached	2017	2019
(d) CPI	3.00%	3.00%
(e) Per capita claims cost	16,500	18,000
(f) Retirement assumption	Age 62 with 10 years of service	,
(g) All other demographic assumptions	Same as those used for pension pla	ans

^{*} numbers may not add due to rounding