FALL 2010

EXAM DP-RU

Design and Pricing Retirement Benefits U.S.

CASE STUDY

Case Study - Course DP Retirement - US

National Oil Company - Background

National Oil Company (NOC) is a large well-established company that services oil wells all over the United States (US). 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 US. Although NOC is the largest player in the industry within US, 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.

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

Summary of National Oil's Retirement Benefits

NOC maintains five retirement plans:

- 1. a final-average pay defined benefit (DB) qualified plan for its full-time salaried employees;
- 2. a flat dollar defined benefit qualified plan for its full-time hourly union staff;
- 3. a defined contribution (DC) qualified plan for its part-time workforce; and
- 4. a non-qualified pension plan (referred to as the SERP) for its executives that is supplemental to the salaried plan. This plan has no assets.
- 5. a retiree health and welfare plan for the full-time salaried and hourly 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 100% after 5 years of plan service

Normal Retirement Age 65

Early Retirement Age 55 with 5 years of plan service

Best Average Earnings Average annual earnings during 60 consecutive months in

which earnings were highest

Earnings Basic pay, excluding overtime and bonuses

Normal Retirement Benefit 2% of best average earnings times years of service,

subject to tax system 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 and terminated

vested members

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 Deferred Pension

Pre-Retirement Death Benefit Lump sum equal to actuarial present value of accrued

benefit payable 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 Actuarial Valuation Results

2008 2009 2010

Participant Summary - January 1

| Active Participants | | | |
|--|--------|--------|--------|
| (a) count | 4,293 | 4,305 | 426 |
| (b) average age | 45.6 | 45.0 | 45.3 |
| (c) average service | 14 | 13 | 12.1 |
| (d) average future working lifetime | 11 | 11 | 11 |
| (e) average plan earnings (prior year) | 65,000 | 65,000 | 66,300 |
| Deferred Vested Participants | | | |
| (a) count | - | - | - |
| Pensioners (incl beneficiaries) | | | |
| (a) count | 612 | 640 | 665 |
| (b) average age | 68.2 | 67.5 | 67.0 |
| (c) average annual benefit | 30,000 | 31,000 | 32,000 |

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

| Change in Plan Assets during Prior Year: | | | |
|---|-----------|-----------|-----------|
| Market Value of Assets at January 1 of prior year | 959,430 | 922,971 | 744,096 |
| Employer Contributions during prior year | - | 12,000 | 11,990 |
| Benefit Payments during prior year | (27,000) | (26,000) | (28,000) |
| Expenses during prior year | · • | | - |
| Investment return during prior year | (9,459) | (164,875) | (44,165) |
| Market Value of Assets at January 1 of current year | 922,971 | 744,096 | 683,921 |
| Rate of return during prior year | -1% | -18% | -6.0% |
| Average Portfolio Mix During Prior Year: | | | |
| (a) Domestic Large Cap Equities | 32% | 30% | 30% |
| (b) Domestic Small Cap Equities | 25% | 10% | 10% |
| (c) Domestic Fixed Income | 23% | 35% | 35% |
| (d) International Equities | 15% | 20% | 20% |
| (e) Real Estate | 3% | 0% | 0% |
| (f) Cash | <u>2%</u> | <u>5%</u> | <u>5%</u> |
| (g) Total | 100% | 100% | 100% |
| Asset Class Returns during Prior Year: | | | |
| (a) Domestic Large Cap Equities | -3% | -30% | -12% |
| (b) Domestic Small Cap Equities | -2% | -45% | -5% |
| (c) Domestic Fixed Income | 4% | 8% | 1% |
| (d) International Equities | -5% | -35% | -10% |
| (e) Real Estate | 5% | 5% | 3% |
| (f) Cash | 3% | 3% | 1% |

^{*} numbers may not add due to rounding

National Oil Full-Time Salaried Pension Plan

Historical Actuarial Valuation Results

2008 2009 Actuarial Valuation - January 1 (numbers in \$000's) * 2010

| 1. Actuarial Accrued Liability: | | | |
|--|---------------------|---------------------|---------------|
| (a) Active participants | 712,369 | 711,832 | 623,465 |
| (b) Deferred vested participants | - | - | - |
| (c) Pensioners | 144,051 | 208,320 | 234,080 |
| (d) Total | 856,419 | 920,152 | 857,545 |
| 2. Actuarial Value of Assets | 922,971 | 744,096 | 683,921 |
| 3. Unfunded Actuarial Accrued Liability: (1d)-(2) | (66,552) | 176,056 | 173,624 |
| 4. Normal Cost (beg. Of year) | 52,768 | 54,756 | 51,526 |
| 5. Change in Unfunded AAL during prior year: | | | |
| (a) Unfunded AAL at prior valuation date | (171,841) | (66,552) | 176,056 |
| (b) Adjustment for Interest | (11,170) | (9,868) | 12,324 |
| (c) Normal Cost w/interest less contributions | 44,516 | 44,042 | 45,936 |
| (d) (Gain)/Loss on investment | 9,459 | 228,993 | 92,011 |
| (e) (Gain)/Loss on termination | (20,000) | (20,000) | (20,000) |
| (f) (Gain)/Loss on salary increases less than expected | (1,000) | (25,000) | (90,000) |
| (g) (Gain)/Loss on mortality | 19,000 | 30,000 | 2,000 |
| (h) (Gain)/Loss on retirement | 63,000 | 50,000 | 45,000 |
| (i) (Gain)/Loss on assumption changes | ** | - | (37,000) |
| (j) (Gain)/Loss on expenses | - | - | |
| (k) (Gain)/Loss on all other factors | 1,484 | (55,559) | (52,703) |
| (I) Unfunded AAL at current valuation date | (66,552) | 176,056 | 173,624 |
| 6. Actuarial Basis | | | |
| (a) Interest | 6.50% | 6.50% | 6.50% |
| (b) Salary scale | 4.50% | 4.50% | 4.00% |
| (c) Consumer Price Index | 2.00% | 2.00% | 2.50% |
| | | RP: | 2000 |
| (d) Mortality | RP 2000 | RP 2000 Proj | ected to 2015 |
| (e) Turnover | Based on NOC e | xperience for 2006 | - 2008 |
| (f) Retirement age | | Age 62 | |
| (g) Proportion married and age difference | 80% with spouse, Ma | ale spouses are 3 y | ears older |
| (h) Asset Valuation Method | Market | value of assets | |
| (i) Actuarial Cost Method | Projec | cted unit credit | |

^{*} numbers may not add due to rounding

National Oil Full-Time Salaried Pension Plan Reconciliation of Plan Participants (2007 - 2010)

| | Active | Pensioners/ Beneficiaries | Total |
|---|---|---------------------------------|--|
| 1. Participants as of January 1, 2007 | 4,243 | 590 | 4,833 |
| New Entrants/Rehires Terminated Nonvested Terminated Vested (Lump Sum Cashout) Retirement Death w/ Beneficiary Death w/o Beneficiary Net change | 375 (120) (175) (28) (2) - 50 | - - 28 2 (8) 22 | 375 (120) (175) - - (8) 72 |
| 2. Participants as of January 1, 2008 | 4,293 | 612 | 4,905 |
| New Entrants/Rehires Terminated Nonvested Terminated Vested (Lump Sum Cashout) Retirement Death w/ Beneficiary Death w/o Beneficiary Net change | 400 (150) (200) (35) (3) - 12 | - - 35 3 (10) 28 | 400 (150) (200) - - (10) 40 |
| 3. Participants as of January 1, 2009 | 4,305 | 640 | 4,945 |
| New Entrants/Rehires Terminated Nonvested Terminated Vested (Lump Sum Cashout) Retirement Death w/ Beneficiary Death w/o Beneficiary Net change | 250 (115) (140) (30) (2) - (37) | - - 30 2 (7) 25 | 250 (115) (140) - - (7) (12) |
| 4. Participants as of January 1, 2010 | 4,268 | 665 | 4,933 |

National Oil Full-Time Salaried Pension Plan Age/Svc/Earnings as of January 1, 2010

Age (Years)

| L | | ۸ دن دن | | Service (Years) 10-15 | 15-20 | >20 | Totals |
|--------|----------------------------------|------------------------|---------------|--------------------------|--------------|--------|---------------|
| | # Participants Average Salary | 180 35,900 | 120 46,100 | 1 1 | i i | 1 1 | 300 40,000 |
| 25-35 | # Participants Average Salary | 235 47,100 | 143 58,000 | 90 62,000 | 55 65,100 | 1 1 | 523 54,500 |
| 35-45 | # Participants | 175 | 198 | 176 | 225 | 201 | 975 |
| | Average Salary | 59,400 | 66,300 | 70,200 | 76,300 | 77,800 | 70,400 |
| 45-55 | # Participants | 164 | 328 | 739 | 273 | 157 | 1,661 |
| | Average Salary | 62,600 | 65,200 | 72,000 | 75,600 | 77,800 | 70,900 |
| 55-65 | # Participants | 168 | 77 | 77 | 399 | 75 | 796 |
| | Average Salary | 61,200 | 64,100 | 68,100 | 73,900 | 74,200 | 96,700 |
| > 65 | # Participants | 4 | 3 | 1 | 2 | 3 | 13 |
| | Average Salary | 47,000 | 52,100 | 47,000 | 57,600 | 53,900 | 51,400 |
| Totals | # Participants | 926 | 869 | 1,083 | 954 | 436 | 4,268 |
| | Average Salary | 52,600 | 61,500 | 70,600 | 74,400 | 77,000 | 66,300 |
| | Avg Age Avg Svc Avg Salary | 45.3 12.1 66,300 | | | | | |

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

Eligibility Immediate

Normal Retirement Age 65

Early Retirement Age 55 with 10 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

Supplemental Executive Retirement Plan Historical Valuation Results - January 1

| ······································ | 2008 | 2009 | 2010 |
|--|---------|---------|---------|
| Participant Summary | | | |
| 1. Active Participants | | | |
| (a) count | 49 | 52 | 60 |
| (b) average age | 53 | 53 | 52 |
| (c) average service | 18 | 18 | 19 |
| (d) average future working lifetime | 6.3 | 6.3 | 6 |
| (e) average earnings (prior year) | 325,000 | 325,000 | 350,000 |
| 2. Deferred Vested Participants | | | |
| (a) count | - | - | - |
| 3. Pensioners (incl beneficiaries) | | | |
| (a) count | 20 | 30 | 30 |
| (b) average age | 69 | 66 | 66 |
| (c) average annual benefit | 21,200 | 22,000 | 22,000 |

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

| 1. Reconciliation of funded status at valuation date: | | | |
|--|----------|-----------------|----------|
| (a) Accrued Benefit Obligation | (47,091) | (50,223) | (65,897) |
| (b) Fair Value of Assets (c) Funded Status: (a) + (b) | (47,091) | (50,223) | (65,897) |
| 2. Service Cost | 1,211 | 1,236 | 1,509 |
| 3. Benefit Payments | 224 | 660 | 660 |
| 4. Actuarial Basis | | | |
| (a) Discount rate | 5.25% | 7.50% | 6.50% |
| (b) Salary scale | 3.50% | 3.50% | 3.50% |
| (c) CPI | 3.00% | 3.00% | 2.00% |
| (d) All other assumptions | Same as | the Salaried Pl | an |

^{*} 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 5 years of service

Normal Retirement Benefit \$80 per month times years of service for terminations/

retirements during 2005 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 With a spouse, 60% joint & survivor benefit without reduction

Without a spouse, single life annuity.

Optional Forms of Benefit Level Income Option, Lump Sum Option, and J&S75% Option

Post-Retirement Indexing None

Termination Benefit Deferred pension

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 Hourly Union Pension Plan Historical Actuarial Valuation Results

| | 2008 | 2009 | 2010 |
|--|--------|--------|--------|
| Participant Summary - January 1 | | | |
| Active Participants | | | |
| (a) count | 6,321 | 6,395 | 6,225 |
| (b) average age | 46.3 | 46.0 | 46.1 |
| (c) average service | 17.2 | 17.0 | 17.3 |
| (d) average future working lifetime | 10.8 | 10.8 | 10.8 |
| (e) average plan earnings (prior year) | 49,500 | 51,000 | 53,100 |
| Deferred Vested Participants | | | |
| (a) count | - | - | • |
| Pensioners (incl beneficiaries) | | | |
| (a) count | 1,081 | 1,120 | 1,135 |
| (b) average age | 71.8 | 70.0 | 68.0 |
| (c) average annual benefit | 11,200 | 12,200 | 13,400 |

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

| | | | *************************************** |
|---|-----------|-----------|---|
| Change in Plan Assets during Prior Year: | | | |
| Market Value of Assets at January 1 of prior year | 504,928 | 528,299 | 428,314 |
| Employer Contributions during prior year | 42,000 | 47,462 | 65,752 |
| Benefit Payments during prior year | (15,000) | (17,000) | (17,000) |
| Expenses during prior year | - · | - | - |
| Investment return during prior year | (3,629) | (130,447) | (27,161) |
| Market Value of Assets at January 1 of current year | 528,299 | 428,314 | 449,904 |
| Rate of return during prior year | -1% | -24% | -6% |
| Average Portfolio Mix During Prior Year: | | | |
| (a) Domestic Large Cap Equities | 30% | 32% | 30% |
| (b) Domestic Small Cap Equities | 27% | 25% | 10% |
| (c) Domestic Fixed Income | 27% | 23% | 35% |
| (d) International Equities | 11% | 15% | 20% |
| (e) Real Estate | 3% | 3% | 0% |
| (f) Cash | <u>2%</u> | <u>2%</u> | <u>5%</u> |
| (g) Total | 100% | 100% | 100% |
| Asset Class Returns during Prior Year: | | | |
| (a) Domestic Large Cap Equities | -3% | -30% | -12% |
| (b) Domestic Small Cap Equities | -2% | -45% | -5% |
| (c) Domestic Fixed Income | 4% | 8% | 1% |
| (d) International Equities | -5% | -35% | -10% |
| (e) Real Estate | 5% | 5% | 3% |
| (f) Cash | 3% | 3% | 1% |

^{*} numbers may not add due to rounding

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

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

| 2008 | 2009 | 2010 |
|------|------|------|
| | | |

| | | | |
|--|-----------------------------|------------------------|-------------|
| 1. Actuarial Accrued Liability: | | | |
| Active Multiplier | \$ 80 \$ | 80 \$ | 80 |
| (a) Active participants | 548,941 | 602,109 | 631,336 |
| (b) Deferred vested participants | | - | |
| (c) Pensioners | 124,704 | 143,472 | 167,299 |
| (d) Total | 673,645 | 745,581 | 798,635 |
| 2. Actuarial Value of Assets | 528,299 | 428,314 | 449,904 |
| 3. Unfunded Actuarial Accrued Liability: (1d)-(2) | 145,346 | 317,267 | 348,730 |
| 4. Normal Cost (beg. Of year) | 31,915 | 35,418 | 36,493 |
| 5. Change in Unfunded AAL during prior year: | | | |
| (a) Unfunded AAL at prior valuation date | 120,655 | 145,346 | 317,267 |
| (b) Adjustment for Interest | 7,843 | 9,448 | 20,622 |
| (c) Normal Cost w/interest less contributions | (12,292) | (15,015) | (30,168) |
| (d) (Gain)/Loss on investment | 37,327 | 165,777 | 56,586 |
| (e) (Gain)/Loss on termination | (6,000) | (8,000) | (30,000) |
| (f) (Gain)/Loss on salary increases less than expected | - | = | - |
| (g) (Gain)/Loss on mortality | (1,900) | (3,900) | (35,000) |
| (h) (Gain)/Loss on retirement | (400) | (600) | (1,000) |
| (i) (Gain)/Loss on assumption changes | - | - | 50,000 |
| (j) (Gain)/Loss on expenses | - | • | - |
| (k) (Gain)/Loss on all other factors | 114 | 24,212 | 424 |
| (I) Change in active benefit multiplier | <u> </u> | - | <u>.</u> |
| (m) Unfunded AAL at current valuation date | 145,346 | 317,267 | 348,730 |
| 6. Actuarial Basis | 2 522/ | 0 5001 | 2 500/ |
| (a) Interest | 6.50% | 6.50% | 6.50% |
| (b) Salary scale | N/A | N/A | N/A |
| (c) Consumer Price Index | 2.00% | 2.00% | 2.50% |
| (d) Mortality | UP 94 | UP 94 | UP 94 AA 15 |
| (e) Turnover | | xperience for 1986-19 | |
| (f) Retirement age | Age 62, with the appropriat | | |
| (g) Proportion married and age difference | • | nds 3 years older thar | Wives |
| (h) Asset Valuation Method | | value of assets | |
| (i) Actuarial Cost Method | U | nit credit | |

^{*} numbers may not add due to rounding

National Oil Full-Time Hourly Union Pension Plan Reconciliation of Plan Participants (2007 - 2010)

| | Active | Pensioners/ Beneficiaries | Total |
|--|--------|------------------------------|-------|
| 1. Participants as of January 1, 2007 | 6,253 | 1,060 | 7,313 |
| - New Entrants/Rehires | 170 | - | 170 |
| - Terminated Nonvested | (30) | - | (30) |
| Terminated Vested (Lump Sum Cashout) | (40) | - | (40) |
| - Retirement | (30) | 30 | - |
| - Death w/ Beneficiary | (2) | 2 | - |
| - Death w/o Beneficiary | - | (11) | (11) |
| - Net change | 68 | 21 | 89 |
| 2. Participants as of January 1, 2008 | 6,321 | 1,081 | 7,402 |
| - New Entrants/Rehires | 220 | - | 220 |
| - Terminated Nonvested | (50) | - | (50) |
| - Terminated Vested (Lump Sum Cashout) | (50) | - | (50) |
| - Retirement | (40) | 40 | - |
| - Death w/ Beneficiary | (6) | 6 | - |
| - Death w/o Beneficiary | - | (7) | (7) |
| - Net change | 74 | 39 | 113 |
| 3. Participants as of January 1, 2009 | 6,395 | 1,120 | 7,515 |
| - New Entrants/Rehires | 50 | - | 50 |
| - Terminated Nonvested | (50) | - | (50) |
| - Terminated Vested (Lump Sum Cashout) | (120) | - | (120) |
| - Retirement | (50) | 50 | - |
| - Death w/ Beneficiary | - | | - |
| - Death w/o Beneficiary | - | (35) | (35) |
| - Net change | (170) | 15 | (155) |
| 4. Participants as of January 1, 2010 | 6,225 | 1,135 | 7,360 |

National Oil Full-Time Hourly Union Pension Plan Age/Svc/Earnings as of January 1, 2010

Age (Years)

| Totals | 339 42,100 | 514 46,600 | 1,965 52,400 | 2,178 55,000 | 1,207 56,700 | 22 53,200 | 6,225 53,100 | |
|--------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| >20 | 1 1 | 1 1 | 441 55,900 | 895 56,800 | 779 58,200 | 1 60,000 | 2,116 57,100 | |
| 15-20 | 1 1 | 62 53,000 | 659 54,300 | 688 55,100 | 180 56,900 | 3 55,000 | 1,592 54,900 | |
| Service (Years) 10-15 | 1 1 | 91 50,000 | 320 53,400 | 315 55,800 | 91 56,200 | 5 57,800 | 822 58,400 | |
| Ser 5-10 | 139 45,000 | 105 46,000 | 330 45,400 | 160 47,000 | 62 49,600 | 9 20,000 | 802 51,700 | |
| ۷ ک | 200 40,000 | 256 44,000 | 215 49,000 | 120 50,000 | 95 49,000 | 7 51,000 | 893 46,000 | 46.1 17.3 53,100 |
| | # 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

Eligibility Immediate

Vesting Immediate

Employer Contributions 50% match of employee contributions

Employee Contributions 3% 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.

Loans Not permitted.

Retirement

Benefit on Termination or Roll over options as well as maintaining the account

balances in the plan or an option to purchase an

annuity

Benefit on Death Account balance is payable to named beneficiary

National Oil Part-Time DC Pension Plan

Historical Results - January 1

| | 2008 | 2009 | 2010 |
|---|----------------------------|----------------------------|----------------------------|
| Participant Summary | | | |
| (a) number participating during prior year(b) average age(c) average base pay | 6,500 28.9 29,000.00 | 7,000 29.2 30,000.00 | 6,800 30.8 31,000.00 |

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

| Change in Plan Assets during Prior Year: | | | |
|---|---------|----------|---------|
| Market Value of Assets at January 1 of prior year | 67.779 | 75,248 | 63,072 |
| Employee Contributions during prior year | 5,655 | 6,300 | 6,324 |
| Company Contributions during prior year | 2,828 | 3,150 | 3,162 |
| Benefit Payments during prior year | (5,850) | (6,300) | (6,120) |
| Expenses during prior year | - | - | |
| Investment return during prior year | 4,837 | (15,325) | 7,124 |
| Market Value of Assets at January 1 of current year | 75,248 | 63,072 | 73,562 |
| Rate of return during prior year | 7% | -20% | 11% |

^{*} 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

Retiree Contributions 30% cost sharing

Retirement benefit Retirees and their spouses may elect to

participate in a self insured health plan

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>

2008 2009 2010

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

| 1. Reconciliation of funded status at valuation date: | | | | |
|---|--------------------------------------|----------------|-------------|--|
| (a) Accrued Benefit Obligation | | | | |
| (i) actives | (835,331) | (846,706) | (1,345,645) | |
| (ii) retirees | (538,528) | (591,077) | (707,121) | |
| (iii) total | (1,373,859) | (1,437,783) | (2,052,766) | |
| (b) Market Value of Assets | 0 | 0 | 0 | |
| 2. Service Cost (beg. of year) | 52,208 | 52,919 | 84,103 | |
| 3. Benefit Payments | 27,000 | 30,000 | 32,000 | |
| 4. Actuarial Basis | | | | |
| (a) Discount rate | 5.25% | 7.50% | 6.50% | |
| (b) Return on assets | N/A | N/A | N/A | |
| (c) Medical trend | | | | |
| Initial rate | 6.00% | 7.00% | 10.00% | |
| Annual decrease | 0.50% | 0.50% | 0.50% | |
| Ultimate rate | 4.50% | 4.50% | 5.00% | |
| Year ultimate trend rate reached | 2011 | 2014 | 2020 | |
| (d) CPI | 3.00% | 3.00% | 2.50% | |
| (e) Per capita claims cost - Pre 65 | 9,500 | 10,500 | 12,000 | |
| (e) Per capita claims cost - Post 65 | | | | |
| (f) Retirement assumption | | years of servi | | |
| (g) All other demographic assumptions | Same as those used for pension plans | | | |

^{*} numbers may not add due to rounding