#  <br> Carilion Clininc 

RETIREMENT PLAN OF CARILION CLINIC

FINANCIAL REPORT

SEPTEMBER 30, 2019

# RETIREMENT PLAN OF CARILION CLINIC FINANCIAL REPORT 

September 30, 2019

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# INDEPENDENT AUDITOR'S REPORT 

The Plan Administrator of the
Retirement Plan of Carilion Clinic
Roanoke, Virginia

## Report on the Financial Statements

We were engaged to audit the accompanying financial statements of the Retirement Plan of Carilion Clinic (the "Plan"), which comprise the statements of net assets available for benefits as of September 30, 2019 and 2018, and the related statements of changes in net assets available for benefits for the years then ended, and the statement of accumulated plan benefits as of October 1, 2018, and the related statement of changes in accumulated plan benefits for the year then ended, and the related notes to the financial statements.

## Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

## Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on conducting the audits in accordance with auditing standards generally accepted in the United States of America. Because of the matter described in the Basis for Disclaimer of Opinion paragraph, however, we were not able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion.

## Basis for Disclaimer of Opinion

As permitted by 29 CFR 2520.103-8 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974, the Plan Administrator instructed us not to perform, and we did not perform, any auditing procedures with respect to the information summarized in Note 9, which was certified by Wells Fargo Bank, N.A., the Trustee of the Plan, except for comparing the information with the related information included in the financial statements. We have been informed by the Plan Administrator that the Trustee holds the Plan's investment assets and executes investment transactions. The Plan Administrator has obtained a certification from the Trustee as of September 30, 2019 and 2018, and for the years then ended, that the information provided to the Plan Administrator by the Trustee is complete and accurate.

## Disclaimer of Opinion

Because of the significance of the matter described in the Basis for Disclaimer of Opinion paragraph, we have not been able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion. Accordingly, we do not express an opinion on these financial statements.

## Other Matter

The supplemental Schedule H, Line $4 i$ - Schedule of Assets (Held at End of Year) as of September 30, 2019 and Schedule H, Line $4 j$ - Schedule of Reportable Transactions for the year ended September 30, 2019, are required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974 and are presented for the purpose of additional analysis and are not a required part of the financial statements. Because of the significance of the matter described in the Basis for Disclaimer of Opinion paragraph, we do not express an opinion on the supplemental schedules referred to above.

## Report on Form and Content in Compliance With DOL Rules and Regulations

The form and content of the information included in the financial statements and supplemental schedules, other than that derived from the information certified by the Trustee, have been audited by us in accordance with auditing standards generally accepted in the United States of America and, in our opinion, are presented in compliance with the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974.

Roanoke, Virginia
July 7, 2020

## RETIREMENT PLAN OF CARILION CLINIC

# STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS <br> September 30, 2019 and 2018 

|  | 2019 | 2018 |
| :---: | :---: | :---: |
| ASSETS |  |  |
| Investments at fair value (Notes 3, 4, 5, and 9) |  |  |
| Mutual funds | \$ 42,520,624 | \$ 43,018,694 |
| Common collective trusts | 234,634,020 | 291,197,838 |
| Corporate bonds | 281,194 | - |
| Common stock | 65,179,962 | 73,961,482 |
| Currency contracts | 15,080,270 | 13,132,437 |
| Partnership interests | 699,126,401 | 579,075,518 |
|  | 1,056,822,471 | 1,000,385,969 |
| Interest-bearing cash | 15,281,366 | 11,905,209 |
| Cash | 6,364 | 186 |
| Receivables |  |  |
| Employer | 92,000,000 | 67,000,000 |
| Accrued income | 66,225 | 114,028 |
| Due from broker | 15,307,398 | 16,180,267 |
| Total assets | 1,179,483,824 | 1,095,585,659 |
| LIABILITIES |  |  |
| Due to broker (Note 5) | 15,413,398 | 13,431,241 |
| NET ASSETS AVAILABLE FOR BENEFITS | \$ 1,164,070,426 | \$1,082,154,418 |

## RETIREMENT PLAN OF CARILION CLINIC

## STATEMENTS OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS <br> Years Ended September 30, 2019 and 2018

|  | 2019 | 2018 |
| :---: | :---: | :---: |
| ADDITIONS TO NET ASSETS ATTRIBUTED TO: |  |  |
| Investment income (Notes 3, 4, 5, and 9) |  |  |
| Net appreciation in fair value of investments | \$ 25,565,247 | \$ 57,305,588 |
| Interest and dividends | 14,307,346 | 10,758,873 |
|  | 39,872,593 | 68,064,461 |
| Employer contributions | 92,000,000 | 67,000,000 |
| Total additions | 131,872,593 | 135,064,461 |
| DEDUCTIONS FROM NET ASSETS ATTRIBUTED TO: |  |  |
| Benefits paid | 41,727,054 | 64,041,706 |
| Administrative expenses (Note 10) | 8,229,531 | 8,017,337 |
| Total deductions | 49,956,585 | 72,059,043 |
| Net increase | 81,916,008 | 63,005,418 |
| NET ASSETS AVAILABLE FOR BENEFITS |  |  |
| Beginning of year | 1,082,154,418 | 1,019,149,000 |
| End of year | \$ 1,164,070,426 | \$ 1,082,154,418 |

# RETIREMENT PLAN OF CARILION CLINIC <br> STATEMENT OF ACCUMULATED PLAN BENEFITS <br> October 1, 2018 * 

| ACTUARIAL PRESENT VALUE OF ACCUMULATED |  |
| :--- | ---: |
| PLAN BENEFITS (Note 2) |  |
| Vested benefits |  |
| Participants currently receiving payments <br> Other participants |  <br>  <br> Nonvested benefits <br> TOTAL ACTUARIAL PRESENT VALUE OF <br> ACCUMULATED PLAN BENEFITS |

* Latest Valuation Date


# RETIREMENT PLAN OF CARILION CLINIC 

## STATEMENT OF CHANGES IN ACCUMULATED PLAN BENEFITS <br> Year Ended October 1, 2018 *

ACTUARIAL PRESENT VALUE OF ACCUMULATED PLAN BENEFITS AT BEGINNING OF YEAR (Note 2) ..... \$ 821,629,640
Increase (decrease) during the year attributable to:Benefits accumulated and (gains) losses47,015,147
Increase for interest due to decrease in discount period ..... 59,020,529
Benefits paid$(64,041,705)$
Net increase
41,993,971
ACTUARIAL PRESENT VALUE OF ACCUMULATED PLAN BENEFITSAT END OF YEAR

[^0][^1]
## RETIREMENT PLAN OF CARILION CLINIC

## NOTES TO FINANCIAL STATEMENTS <br> September 30, 2019

## Note 1. Description of the Plan

The following brief description of Retirement Plan of Carilion Clinic (the "Plan") is provided for general information purposes only. Participants should refer to the Plan agreement for more complete information.

## General

The Plan is a defined benefit pension plan covering all eligible employees of Carilion Clinic (the "Company") and its subsidiaries and affiliate hospitals who have completed 1,000 hours of service during their first twelve months of service and are age 21 or older. It is subject to the provisions of the Employee Retirement Income Security Act of 1974 (ERISA).

The Plan document was restated and amended effective October 1, 2016 to clarify certain Plan provisions in order to obtain a new determination letter from the IRS.

The Plan document was amended in December 2017 to add a provision effective January 1, 2018 for lump sum "cash-out" payments. Participants or their spouses who satisfy the criteria as stated in the amendment were allowed an option to receive a lump sum payment or immediate annuity paid on or about April 1, 2018. This amendment also included a provision effective February 1, 2018 to modify the Plan's disability benefit provisions.

## Pension benefits

Participating employees with five or more years of service are entitled to receive annual pension benefits beginning at normal retirement age (65) based upon a formula determined using average compensation and credited years of service up to 35 years. Average compensation is equal to the average of total compensation of the highest five consecutive years of credited service prior to retirement age. A participant who has completed five years of credited service is entitled to a deferred retirement allowance commencing on the participant's delayed retirement date equal to the greater of the normal retirement allowance increased to reflect the later commencement or the accrued benefit calculated as of the delayed retirement date.

The Plan permits early retirement as of age 55 providing the participant has completed at least 10 years of service. The early retirement benefit is equal to the participant's accrued benefit as of the early retirement date, reduced by an early retirement factor based on the number of years for which payments commence prior to normal retirement date.

Death and disability benefits
If a participating employee is married and has completed at least five years of service and dies before their retirement benefit would be payable to him or her, a death benefit will be payable to the surviving spouse in a lifetime monthly amount as defined by the Plan.

# RETIREMENT PLAN OF CARILION CLINIC 

## NOTES TO FINANCIAL STATEMENTS <br> September 30, 2019

## Note 1. Description of the Plan (Continued)

Death and disability benefits (Continued)
Active, participating employees, who become disabled and have completed at least five years of service, will be entitled to receive a benefit commencing upon their normal retirement equal to the monthly retirement allowance the participant would have been entitled had the participant remained in service until normal retirement date and based on the participant's average monthly compensation and covered compensation determined as of the disability date. Disability benefits are limited to a maximum of thirty-five years of credited service. Effective February 1, 2018, disability benefits will not include credited service after February 1, 2018.

## Note 2. Summary of Significant Accounting Policies

Basis of accounting
The accompanying financial statements are prepared on the accrual basis of accounting.

## Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires plan management to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results may differ from those estimates.

## Cash and interest-bearing cash

The Wells Fargo Bank, N.A. Collateralized Institutional Bank Deposit Account is an interest-bearing cash account and is insured by the Federal Deposit Insurance Corporation (FDIC) generally up to $\$ 250,000$.

The Plan's cash consists of funds held in a cash account maintained by the Trustee. This account is not insured by the FDIC.

## Investments valuation and income recognition

The Plan's investments are reported at fair value. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. See Note 3 for a discussion of fair value measurements.

Purchases and sales of investments are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date. Net appreciation or depreciation includes the Plan's gains and losses on investments bought and sold as well as held during the year.

## Foreign currency translation

The Plan revalues assets and liabilities denominated in foreign (i.e., non-U.S.) currencies into U.S. dollars using applicable exchange rates as of the date of the Statements of Net Assets Available for Benefits. Income and expenses denominated in foreign currencies are revalued at the exchange rates prevailing at the date of the transaction.

## RETIREMENT PLAN OF CARILION CLINIC

## NOTES TO FINANCIAL STATEMENTS <br> September 30, 2019

## Note 2. Summary of Significant Accounting Policies (Continued)

Actuarial present value of accumulated plan benefits
Accumulated plan benefits are those future periodic payments, including lump-sum distributions that are attributable under the Plan's provisions to the service employees have rendered. Accumulated plan benefits include benefits expected to be paid to retired or terminated employees or their beneficiaries, beneficiaries of employees who have died, and present employees or their beneficiaries. The accumulated plan benefits for active employees are based on their average compensation during the five years ending on the date as of which the benefit information is presented. Benefits payable upon retirement, death, disability, and termination of employment are included, to the extent they are deemed attributable to employee service rendered to the valuation date.

The actuarial present value of accumulated plan benefits was determined by an actuary from Mercer (US), Inc. as of October 1, 2018 and 2017, respectively, and is that amount which results from applying actuarial assumptions to adjust the accumulated plan benefits to reflect the time value of money (through discounts for interest) and the probability of payment (by means of decrements such as for death, disability, withdrawal, or retirement) between the valuation date and the expected date of payment.

Significant actuarial assumptions used in determining accumulated plan benefits as of October 1, 2018 and 2017 are as follows:

|  | 2018 | 2017 |
| :---: | :---: | :---: |
| Mortality | RP-2014 separate static annuitant and non-annuitant Mortality Tables for healthy participants using the MP-2016 projection scale | RP-2014 separate static annuitant and non-annuitant Mortality Tables for healthy participants using the MP-2016 projection scale |
| Turnover | Modified Society of Actuaries 2003 Termination Table | Modified Society of Actuaries 2003 Termination Table |
| Discount rate | Stabilized and non-stabilized segment rates with 4 month look-back, respectively - First 5 years $3.92 \%$ and $2.07 \%$, next 15 years $5.52 \%$ and $3.70 \%$, over 20 years $6.29 \%$ and 4.43\% | Stabilized and non-stabilized segment rates with 4 month look-back, respectively - First 5 years $4.16 \%$ and $1.71 \%$, next 15 years $5.72 \%$ and $3.83 \%$, over 20 years $6.48 \%$ and $4.75 \%$ |
| Salary increases | 3.0\% per year | 3.0\% per year |
| Expected investment return | 7.50\% per year | 7.50\% per year |

# RETIREMENT PLAN OF CARILION CLINIC 

## NOTES TO FINANCIAL STATEMENTS <br> September 30, 2019

## Note 2. Summary of Significant Accounting Policies (Continued)

Actuarial present value of accumulated plan benefits (Continued)
For the October 1, 2018 valuation, the following changes in assumptions were made and included (1) interest discounts and mortality rates were updated from 2017 to 2018 in accordance with the Pension Protection Act, (2) the expected return on assets for the 2018 plan year was changed from $6.98 \%$ to $7.07 \%$ to be consistent with the $50^{\text {th }}$ percentile return of the Portfolio Return Calculator, and (3) the expense component of normal cost increased from $\$ 5,100,000$ to $\$ 7,000,000$.

The foregoing actuarial assumptions are based on the presumption that the Plan will continue. Should the Plan terminate, different actuarial assumptions and other factors might be applicable in determining the actuarial present value of accumulated plan benefits.

Payment of benefits
Benefit payments to participants are recorded upon distribution.

## Administrative expenses

Plan fees and administrative expenses are paid by the Plan and Company on a discretionary basis.

## Note 3. Fair Value Measurements

The Plan's investments are reported at fair value in the accompanying statements of net assets available for benefits. The methods used to measure fair value may produce an amount that may not be indicative of net realizable value or reflective of future fair value. Furthermore, although the Plan believes its valuation methods are appropriate and consistent with those of other market participants, the use of different methodologies or assumptions to determine fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

The fair value measurement accounting literature establishes a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. This hierarchy consists of three broad levels: Level 1 inputs consist of unadjusted quoted prices in active markets for identical assets and have the highest priority; Level 2 inputs consist of observable inputs other than quoted prices for identical assets, including foreign exchange rates; and Level 3 inputs are unobservable and have the lowest priority. The Plan uses appropriate valuation techniques based on the available inputs to measure the fair value of its investments. When available, the Plan measures fair value using Level 1 inputs because they generally provide the most reliable evidence of fair value. Level 3 inputs were used only when Level 1 or Level 2 inputs were not available.

# RETIREMENT PLAN OF CARILION CLINIC 

## NOTES TO FINANCIAL STATEMENTS <br> September 30, 2019

## Note 3. Fair Value Measurements (Continued)

|  | Fair Value | Fair Value Measurements at Reporting Date Using: |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | uoted Prices in Active Markets for ntical Assets (Level 1) | Significant Other Observable Inputs (Level 2) | Significant Unobservable Inputs (Level 3) |
| September 30, 2019 |  |  |  |  |  |
| Mutual funds | \$ 42,520,624 | \$ | 42,520,624 | \$ | \$ |
| Common collective trusts | 234,634,020 |  | - | 234,634,020 | - |
| Corporate bonds | 281,194 |  | - | 281,194 | - |
| Common stocks | 65,179,962 |  | 51,512,085 | 13,667,877 | - |
| Currency contracts | 15,080,270 |  | - | 15,080,270 | - |
| Partnership interests | 699,126,401 |  | - | - | 699,126,401 |
|  | \$ 1,056,822,471 | \$ | 94,032,709 | \$ 263,663,361 | \$ 699,126,401 |
| September 30, 2018 |  |  |  |  |  |
| Mutual funds | \$ 43,018,694 | \$ | 43,018,694 | \$ | \$ |
| Common collective trusts | 291,197,838 |  |  | 291,197,838 | - |
| Common stocks | 73,961,482 |  | 57,369,181 | 16,592,301 | - |
| Currency contracts | 13,132,437 |  | - | 13,132,437 | - |
| Partnership interests | 579,075,518 |  | - | - | 579,075,518 |
|  | \$ 1,000,385,969 |  | 100,387,875 | \$ 320,922,576 | \$ 579,075,518 |

## Level 1 Fair Value Measurements

The fair values of mutual funds and certain common stocks are based on quoted net asset values of the shares held by the Plan at year end.

## Level 2 Fair Value Measurements

The fair value of corporate bonds, certain other common stocks, common collective trusts, and currency contracts consist of observable inputs including quoted prices for similar assets or liabilities in active or non-active markets and may also include insignificant adjustments to market observable inputs. While the underlying asset values are quoted prices, the net asset value (NAV) of a unit is not publically quoted. Units can be issued and redeemed on any business day at the NAV. All earnings and losses are reflected in the computation of the NAV and are realized by the participant upon withdrawal. No distributions of income and gain or loss are made to participants. The value of currency contracts is dependent upon exchange rates.

# RETIREMENT PLAN OF CARILION CLINIC 

## NOTES TO FINANCIAL STATEMENTS <br> September 30, 2019

## Note 3. Fair Value Measurements (Continued)

## Level 3 Fair Value Measurements

The fair value of limited partnership funds consists of inputs which are unobservable and not actively traded and significant other observable inputs are not available. Limited partnership pricing is derived from other valuation methodologies including various sources such as the issuer, fund manager, and other pricing models.

The following table provides further details of Level 3 fair value measurements.

## Fair Value Measurements using Significant Unobservable Inputs (Level 3)

## September 30, 2019

| Beginning balance | \$ | 579,075,518 |
| :---: | :---: | :---: |
| Total gains or losses (realized and unrealized included in changes in net assets available for benefits) |  | 21,891,895 |
| Purchases |  | 193,289,490 |
| Sales |  | $(95,130,502)$ |
| Ending balance | \$ | 699,126,401 |
| Total gains for the year included in changes in net assets available for benefits attributable to the change in unrealized gains or losses relating to investments still held at the reporting date | \$ | 115,203,924 |
| September 30, 2018 |  |  |
| Beginning balance | \$ | 438,330,282 |
| Total gains or losses (realized and unrealized included in changes in net assets available for benefits) |  | 31,334,245 |
| Purchases |  | 145,090,576 |
| Sales |  | $(35,679,585)$ |
| Ending balance | \$ | 579,075,518 |
| Total gains for the year included in changes in net assets available for benefits attributable to the change in unrealized gains or losses relating to investments still held at the reporting date | \$ | 94,813,648 |

Gains and losses (realized and unrealized) included in changes in net assets available for benefits for the years ended September 30, 2019 and 2018 are reported in net appreciation in fair value of investments.

The Plan's policy is to recognize transfers into and out of Level 3 as of the date of the event or change in circumstances that caused the transfer.

# RETIREMENT PLAN OF CARILION CLINIC 

## NOTES TO FINANCIAL STATEMENTS

September 30, 2019

## Note 4. Common Collective Trusts

The Plan holds investments in four funds of the Highland Collective Investment Trust. These funds are not fully benefit-responsive. The Highland Core Fixed Income Collective Fund includes fixed income securities and registered investment company funds. The Highland Equity Collective Fund includes common stocks, exchange-traded funds, limited liability companies, preferred stocks, real estate investment trusts, registered investment company funds, and warrants. The Highland Public Inflation Hedges Collective Fund includes common stocks, exchange-traded funds, fixed income securities, preferred stocks, real estate investment trusts, registered investment company funds, and other short-term investment funds. The per unit net asset value of the funds are determined each business day. Subscriptions and redemptions of units by qualified purchasers and sellers, respectively, may be processed pursuant to notice entered in the records of the Trustee on the Valuation Date. The Highland Direct Hedged Equity Collective Fund includes exchange-traded funds, fixed income securities, hedge funds, limited partnerships, and registered investment company funds. The per unit net asset value of this fund is determined on the last business day of each month. Redemptions of units by qualified purchasers may be processed quarterly pursuant to 100 days' prior written notice. Net investment income and net realized gains are retained by the funds.

## Note 5. Derivative Instruments

The Plan enters into foreign exchange currency contracts primarily to hedge against foreign currency exchange rate risks on its non-U.S. dollar investment securities. When entering into a forward currency contract, the Plan agrees to receive or deliver a fixed quantity of foreign currency for an agreed-upon price on an agreed future date. The Plan's net equity therein, representing unrealized gain or loss on the contracts, as measured by the difference between the forward foreign exchange rates at the date of entry in the contracts and the forward rates at the reporting date is included in the statements of changes in net assets available for benefits. The Plan also enters into future equity contracts. When entering into a future equity contract, the Plan purchases the option to call a fixed quantity of stock on an agreed future date. The Plan's net equity therein, representing unrealized gain or loss on the contracts, as measured by the difference between the stock at the date of entry in the contracts and the stock at the call date, if exercised, is included in the statements of changes in net assets available for benefits. These instruments involve market risk, credit risk, or both kinds of risks in excess of the amount recognized in the statements of net assets available for benefits. Risks arise from the possible inability of counterparties to meet the terms of their contracts and movement in currency and securities values and interest rates. Counterparties to a derivative contract seek to obtain risks and rewards similar to those that could be obtained from purchasing or selling a related cash instrument without having to exchange upfront the full purchase or sales price. The Plan uses derivatives to manage and invest in market risk exposures, predominately using foreign exchange contracts.

## Accounting for derivatives

All derivatives are recorded on the statements of net assets available for benefits at fair value, with all changes in fair value reflected in the statements of changes in net assets available for benefits.

# RETIREMENT PLAN OF CARILION CLINIC 

## NOTES TO FINANCIAL STATEMENTS <br> September 30, 2019

## Note 5. Derivative Instruments (Continued)

Impact of derivatives on the statements of net assets available for benefits
The following table summarizes the gross fair values of derivative receivables and payables (irrespective of any legally enforceable master netting agreements) by contract type. Spot and forward contracts for receivables are included in investments at fair value. Spot and forward contracts for payables, as well as future equity contracts, are included in due to broker on the statements of net assets available for benefits.

September 30, 2019
Future equity contracts
Foreign exchange forward contracts


## September 30, 2018

Foreign exchange spot contracts
Foreign exchange forward contracts

| \$ | 612,255 | \$ | 612,075 |
| :---: | :---: | :---: | :---: |
|  | 12,520,182 |  | 12,513,074 |
| \$ | 13,132,437 | \$ | 13,125,149 |

These amounts also represent the notional amount of derivative contracts outstanding as of September 30, 2019 and 2018. While the notional amounts disclosed above give an indication of the volume of the Plan's derivative activities, the notional amounts significantly exceed the possible losses that could arise from such transactions. For most derivative transactions, the notional amount is not exchanged; it is used simply as a reference to calculate payments.

## Derivatives gains and losses

The following table presents derivatives, by contract type, and the gains or losses recorded on such derivatives for the years ended September 30, 2019 and 2018. All amounts are recorded in net appreciation in fair value of investments in the statements of changes in net assets available for benefits.

|  | 2019 |  | 2018 |  |
| :---: | :---: | :---: | :---: | :---: |
| Foreign exchange spot contracts | \$ | 33,980 | \$ | $(97,261)$ |
| Foreign exchange forward contracts |  | 338,836 |  | $(66,648)$ |
| Derivative gains or (losses) | \$ | 372,816 | \$ | $(163,909)$ |

# RETIREMENT PLAN OF CARILION CLINIC 

## NOTES TO FINANCIAL STATEMENTS <br> September 30, 2019

## Note 6. Funding Policy

The Company contributes to the Plan an amount determined by the actuary at least sufficient to maintain the Plan as a qualified employee defined benefit plan meeting the minimum funding standard requirements of ERISA. The Company contribution for the years ended September 30, 2019 and 2018 exceeded the minimum funding requirements as set forth by ERISA.

Although it has not expressed any intention to do so, the Company has the right under the Plan to discontinue its contributions at any time and to terminate the Plan subject to the provisions set forth in ERISA.

## Note 7. Tax Status

The Plan obtained a determination letter dated October 2, 2017, in which the Internal Revenue Service stated that the Plan, as then designed, was in compliance with the applicable requirements of the Internal Revenue Code (IRC). The Plan has been amended since receiving the determination letter, however, the Plan Administrator and legal counsel believe the Plan is currently designed and is being operated in compliance with the applicable requirements of the IRC.

Accounting principles generally accepted in the United States of America require plan management to evaluate tax positions taken by the plan and recognize a tax liability (or asset) if the plan has taken an uncertain position that more likely than not would not be sustained upon examination by the Internal Revenue Service. The Plan Administrator has analyzed the tax positions taken by the Plan, and has concluded that as of September 30, 2019, there are no uncertain positions taken or expected to be taken that would require recognition of a liability (or asset) or disclosure in the financial statements.

## Note 8. Plan Termination

In the event the Plan terminates, the net assets of the Plan will not be available on a pro rata basis to provide participant's benefits. Whether a particular participant's accumulated Plan benefits will be paid depends on both the priority of those benefits and the level of benefits guaranteed by the Pension Benefit Guaranty Corporation (PBGC) (a U.S. government agency) at that time. Some benefits may be fully or partially provided for by the then existing assets and the PBGC guaranty while other benefits may not be provided for at all. Participants should refer to the Plan agreement for more complete information.

Certain benefits under the Plan are insured by the PBGC if the Plan terminates. Generally, the PBGC guarantees most vested normal age retirement benefits, early retirement benefits, and certain disability and survivor's pensions. However, the PBGC does not guarantee all types of benefits under the Plan, and the amount of benefit protection is subject to certain limitations. Vested benefits under the Plan are guaranteed at the level in effect on the date of the Plan's termination. However, there is a statutory ceiling, which is adjusted periodically, on the amount of an individual's monthly benefit that the PBGC guarantees. For Plan terminations occurring during 2019, that ceiling is $\$ 5,608$ per month. That ceiling applies to those pensioners who elect to receive their benefits in the form of a single-life annuity and are at least 65 years old at the time of retirement or Plan termination (whichever comes later). For younger annuitants or for those who elect to receive their benefits in some form more valuable than a single-life annuity, the corresponding ceilings are actuarially adjusted downward.

# RETIREMENT PLAN OF CARILION CLINIC 

## NOTES TO FINANCIAL STATEMENTS <br> September 30, 2019

## Note 8. Plan Termination (Continued)

Whether all participants receive their benefits should the Plan terminate at some future time will depend on the sufficiency, at that time, of the Plan's net assets to provide for accumulated benefit obligations, and may also depend on the financial condition of the Plan sponsor and the level of benefits guaranteed by the PBGC.

## Note 9. Trustee's Certification

Certain information was certified as complete and accurate by the Plan's Trustee. This information is as follows:

- Investment assets
- Investment transactions
- Investment income
- Schedule H, Line 4i - Schedule of Assets (Held at End of Year)
- Schedule H, Line 4j - Schedule of Reportable Transactions


## Note 10. Transactions with Related Parties

Certain administrative functions are performed by officers or employees of the Company. These employees are also Plan participants. No such officer or employee receives compensation from the Plan.

For the years ended September 30, 2019 and 2018, Plan assets were invested in certain funds managed by the Plan's Trustee. These transactions qualify as related party transactions. Fees paid by the Plan to the Plan's Trustee for trust services amounted to $\$ 208,735$ and $\$ 184,933$ for the years ended September 30, 2019 and 2018, respectively.

## Note 11. Risks and Uncertainties

The Plan invests in various investment securities. Investment securities are exposed to various risks such as interest rate, foreign exchange rates, market, and credit risks. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities will occur in the near-term and that such change could materially affect the amounts reported in the statements of net assets available for benefit.

Plan contributions are made and the actuarial present value of accumulated plan benefits are reported based on certain assumptions pertaining to interest rates, inflation rates, and employee demographics, all of which are subject to change. Due to uncertainties inherent in the estimation and assumption process, it is at least reasonably possible that changes in these estimates and assumptions in the near term could be material to the financial statements.

# RETIREMENT PLAN OF CARILION CLINIC 

## NOTES TO FINANCIAL STATEMENTS September 30, 2019

## Note 12. Subsequent Events

Subsequent events were evaluated through July 7, 2020, the date the financial statements were available to be issued.

In December 2019, a novel strain of coronavirus (COVID-19) was reported and the full impact of the outbreak continues to evolve as of the date of this report. The World Health Organization declared the outbreak a "Public Health Emergency of International Concern" on January 30, 2020. The Plan sponsor's operations have been affected by closures and stay at home orders issued in March and April 2020 by government officials in response to the COVID-19 outbreak. The extent of the impact of COVID-19 on the Plan sponsor's operations will depend on the duration and spread of the outbreak, which is uncertain and cannot be predicted. The extent to which COVID-19 may impact plan activity cannot be reasonably estimated at this time.

## SUPPLEMENTAL SCHEDULES

## RETIREMENT PLAN OF CARILION CLINIC

(Sponsor EIN: 54-1190771) (Plan: 001)

## SCHEDULE H, LINE 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR) September 30, 2019

| (a) | (c) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | (b) <br> Identity of Issuer | Description of Investment Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value |  | (d) <br> Cost |  | (e) <br> Current Value |
|  | Apollo European Principal Finance |  |  |  |  |  |
|  | Fund III, LP | Private Fixed Income | \$ | 4,668,043 | \$ | 4,765,303 |
|  | Apollo Investment Fund VIII, LP | Private Equity |  | 10,095,440 |  | 13,019,016 |
|  | Apollo Total Return Fund (Onshore), LP | Fixed Income |  | 28,000,000 |  | 34,124,450 |
|  | Avenue Asia Special Situations |  |  |  |  |  |
|  | Fund V, LP | Private Fixed Income |  | 12,735,994 |  | 13,735,161 |
|  | BB Aggregator, LLC | Private Equity |  | 3,545,739 |  | 9,018,596 |
|  | BDCM Opportunity Fund IV | Private Equity |  | 16,348,660 |  | 17,807,781 |
|  | Blackmoor Ownership Holdings, Ltd. | Public Equity |  | 19,000,000 |  | 20,597,529 |
|  | Blackstone Capital Partners VII, LP | Private Equity |  | 5,887,050 |  | 6,885,600 |
|  | Blackstone Tactical Opportunities |  |  |  |  |  |
|  | Fund II, LP | Private Equity |  | 10,918,004 |  | 11,353,842 |
|  | Blackstone Tactical Opportunities |  |  |  |  |  |
|  | Fund, LP | Private Equity |  | 6,791,835 |  | 6,123,977 |
|  | Builders Union Fund, Ltd. | Hedge |  | 10,000,000 |  | 10,000,000 |
|  | Carlyle Partners VI, LP | Private Equity |  | 13,018,077 |  | 13,779,003 |
|  | CEMOF II Offshore Investors, LP | Private Equity |  | 6,549,393 |  | 5,922,165 |
|  | Colony Distressed Credit |  |  |  |  |  |
|  | Fund III, LP | Private Equity |  | 7,808,616 |  | 8,219,182 |
|  | DoubleBlue Argentina Consumer |  |  |  |  |  |
|  | Finance Offshore Fund I, LP | Private Fixed Income |  | 9,250,000 |  | 9,150,362 |
|  | Elliot International, Ltd. Class B | Hedge |  | 14,839,385 |  | 18,901,841 |
|  | Excelsior Partners Fund IV | Venture Capital |  | - |  | 123,800 |
|  | Fenghe Asia (USTE) Fund, Ltd. |  |  |  |  |  |
|  | Fenghe Asia (USTE) Fund, Ltd. Participating Shares F, Jan. 2019 | Hedge |  | 1,000,000 |  | 1,002,027 |
|  | Goldman Sachs Private Middle |  |  |  |  |  |
|  | Hamilton Lane Private Equity Offshore Fund VI, LP | Private Equity | Hamilton Lane Private Equity |  |  | 1,422,609 |
|  | Kerrisdale Partners Offshore, Ltd. | Hedge |  | 10,000,000 |  | 12,347,174 |
|  | Magnitude Systematic Long/Short, Ltd. Anchor Shares | Magnitude Systematic Long/Short, Ltd. |  |  |  | 10,487,686 |
|  | Oaktree Private Investment |  |  |  |  |  |
|  |  | Private Equity |  | 4,532,000 |  | 7,083,392 |
|  | Old Farm Partners Offshore Fund, Ltd. |  |  |  |  |  |
|  | Old Farm Partners Offshore Fund, Ltd. Founders Class NI, Nov. 2018 | Hedge Fund of Funds |  | 1,000,000 |  | 1,025,322 |

## RETIREMENT PLAN OF CARILION CLINIC <br> (Sponsor EIN: 54-1190771) (Plan: 001)

# SCHEDULE H, LINE 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR) September 30, 2019 



## RETIREMENT PLAN OF CARILION CLINIC

(Sponsor EIN: 54-1190771) (Plan: 001)

## SCHEDULE H, LINE 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR) September 30, 2019

| (a) | (b) <br> Identity of Issuer | (c) <br> Description of Investment Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value |  | (d) Cost |  | (e) <br> Current <br> Value |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Sprott Private Resource Lending International Fund, LP | Private Fixed Income | \$ | 7,344,933 | \$ | 7,695,782 |
|  | Sprott Private Resource Lending Co-Investment Intl. Fund, LP | Private Fixed Income |  | 5,578,558 |  | 5,906,066 |
|  | Sprott Private Resource Lending II (International), LP | Private Debt |  | 2,641,510 |  | 2,595,492 |
|  | Starwood VEP II Co-invest LLC | Private Equity Energy |  | 1,036,496 |  | 1,036,496 |
|  | TA XII-B, LP | Private Equity |  | 8,271,244 |  | 12,374,435 |
|  | Tallinn Capital Energy, LP | Private Debt |  | 1,563,911 |  | 1,558,052 |
|  | Third Point Offshore Fund, Ltd. | Private Equity |  | 10,041,943 |  | 12,799,418 |
|  | TI Platform BOV Cayman, LP | Venture Capital |  | 1,132,457 |  | 1,132,457 |
|  | TT Emerging Markets Opportunities Fund II Ltd., Class A | Public Equity |  | 10,971,996 |  | 11,888,908 |
|  | UBS Trumbull Property Income Fund (TPI) | Real Estate |  | 31,972,535 |  | 45,835,665 |
|  | Warburg Pincus Private Equity XII, LP | Private Equity |  | 12,415,500 |  | 14,884,971 |
|  | WMQS Global Equity Active Extension Offshore Fund LTD F1 | Public Equity |  | 42,000,000 |  | 42,639,833 |
|  | Anthem, Inc. | Common Stock |  | 1,204,253 |  | 964,722 |
|  | Becton Dickinson \& Co. | Common Stock |  | 1,418,453 |  | 1,467,674 |
|  | Gilead Sciences, Inc. | Common Stock |  | 973,626 |  | 794,088 |
|  | American International Group, Inc. | Common Stock |  | 696,559 |  | 646,120 |
|  | Progressive Corp. Ohio | Common Stock |  | 1,372,601 |  | 1,519,044 |
|  | Unum Group | Common Stock |  | 547,323 |  | 594,400 |
|  | Bank of New York Mellon Corp | Common Stock |  | 1,219,166 |  | 1,045,753 |
|  | Berkshire Hathaway, Inc. | Common Stock |  | 2,185,277 |  | 2,419,273 |
|  | Corepoint Lodging, Inc. | Common Stock |  | 1,281,912 |  | 1,144,452 |
|  | Citigroup, Inc. | Common Stock |  | 771,829 |  | 773,696 |
|  | Alliance One International, Inc. | Common Stock |  | 471,313 |  | 478,728 |
|  | Beazer Homes USA Inc. | Common Stock |  | 945,807 |  | 831,420 |
|  | M/I Homes, Inc. | Common Stock |  | 682,142 |  | 978,900 |
|  | Taylor Morrison Home Corp | Common Stock |  | 1,171,905 |  | 1,297,000 |
|  | Walt Disney Co. | Common Stock |  | 1,355,621 |  | 1,534,648 |
|  | Dollar General Corp | Common Stock |  | 832,398 |  | 1,299,017 |
|  | Sherwin Williams Co. | Common Stock |  | 668,376 |  | 1,077,195 |
|  | Ecolab, Inc. | Common Stock |  | 644,543 |  | 967,821 |
|  | Resolute Forest Products | Common Stock |  | 308,419 |  | 299,860 |

## RETIREMENT PLAN OF CARILION CLINIC <br> (Sponsor EIN: 54-1190771) (Plan: 001)

## SCHEDULE H, LINE 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR) September 30, 2019



## RETIREMENT PLAN OF CARILION CLINIC <br> (Sponsor EIN: 54-1190771) (Plan: 001)

## SCHEDULE H, LINE 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR) September 30, 2019

| (a) | (b) <br> Identity of Issuer | (c) <br> Description of Investment Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value |  | (d) <br> Cost |  | (e) <br> Current Value |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Alio Gold, Inc. | American Depository Receipts | \$ | 506,766 | \$ | 78,365 |
|  | Allegion PLC | American Depository Receipts |  | 489,151 |  | 617,443 |
|  | Ardmore Shipping Corporation | American Depository Receipts |  | 451,206 |  | 423,002 |
|  | Asanko Gold, Inc | American Depository Receipts |  | 482,929 |  | 532,813 |
|  | Avianca Holdings SA | American Depository Receipts |  | 2,841,164 |  | 1,476,544 |
|  | Blue Capital Holding, Ltd. | American Depository Receipts |  | 694,401 |  | 436,378 |
|  | Capital Product Partners LP | American Depository Receipts |  | 375,266 |  | 306,469 |
|  | Diamond S Shipping, Inc. | American Depository Receipts |  | 210,599 |  | 216,796 |
|  | Eldorado Gold Corp. | American Depository Receipts |  | 120,543 |  | 290,598 |
|  | Fly Leasing, Ltd. | American Depository Receipts |  | 776,643 |  | 1,158,815 |
|  | Gold Fields Limited | American Depository Receipts |  | 1,114,827 |  | 1,390,392 |
|  | Iamgold, Corp | American Depository Receipts |  | 2,260,489 |  | 1,344,904 |
|  | International Seaways, Inc. | American Depository Receipts |  | 804,467 |  | 843,781 |
|  | Korea Electric Power Corp | American Depository Receipts |  | 719,600 |  | 641,728 |
|  | Linde Public Limited Company | American Depository Receipts |  | 740,942 |  | 878,133 |
|  | Highland | Equity Fund Collective Investment Trust |  | 56,440,216 |  | 70,012,582 |
|  | Highland | Core Fixed Income Fund Collective Investment Trust |  | 14,476,109 |  | 16,067,213 |
|  | Highland | Public Inflation Hedges Fund Collective Investment Trust |  | 48,310,654 |  | 53,165,308 |
|  | Highland | Directed Hedged Equity Collective Fund |  | 81,242,187 |  | 95,388,917 |
|  | AMG | Yacktman Special Opportunities <br> Fund - Class Z \#1180 |  | 5,000,000 |  | 4,881,703 |
|  | Oakmark | Global Select Fund Inst. \#2884 |  | 11,504,177 |  | 10,103,187 |
|  | Artisan | Global Value Fund Inst. \#1679 |  | 10,937,252 |  | 11,205,177 |
|  | Davenport | Small Cap Focus Fund |  | 5,030,248 |  | 5,165,948 |
|  | Polaris | Global Value Fund \#778 |  | 11,127,344 |  | 11,164,609 |
| * | Wells Fargo | Collateralized Institutional Bank Deposit Account |  | 15,281,366 |  | 15,281,366 |

## RETIREMENT PLAN OF CARILION CLINIC

(Sponsor EIN: 54-1190771) (Plan: 001)

## SCHEDULE H, LINE 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR)

 September 30, 2019| (a) | (b) <br> Identity of Issuer | (c) <br> Description of Investment Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value |  | (d) Cost |  | (e) <br> urrent Value |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Forward Currency Contract | 1,400,600 AUD, 11/7/19 | \$ | 958,702 | \$ | 945,721 |
|  | Forward Currency Contract | 1,840,900 CAD, 11/7/19 |  | 1,388,960 |  | 1,391,455 |
|  | Forward Currency Contract | 356,423,600 JPY, 11/7/19 |  | 3,305,897 |  | 3,307,297 |
|  | Forward Currency Contract | 3,340,800 SEK, 11/7/19 |  | 345,123 |  | 340,758 |
|  | Forward Currency Contract | 974,648 HKD, 11/7/19 |  | 974,648 |  | 974,648 |
|  | Forward Currency Contract | 1,683,224 CHF, 11/7/19 |  | 1,683,224 |  | 1,683,224 |
|  | Forward Currency Contract | 4,375,229 EUR, 11/7/19 |  | 4,375,229 |  | 4,375,229 |
|  | Forward Currency Contract | 2,061,938 GBP, 11/7/19 |  | 2,061,938 |  | 2,061,938 |
|  | SM Energy Co. | $\begin{aligned} & \text { Corp. Bond, } 5 / 21 / 15,5.625 \% \text {, } \\ & 6 / 1 / 25 \end{aligned}$ |  | 292,740 |  | 281,194 |
|  |  |  |  |  |  | 2,103,837 |

* Party-in-interest


## RETIREMENT PLAN OF CARILION CLINIC

(Sponsor EIN: 54-1190771) (Plan: 001)

## SCHEDULE H, LINE 4j - SCHEDULE OF REPORTABLE TRANSACTIONS

Year Ended September 30, 2019


Schedule SB, line 26 - Schedule of Active Participant Data

| ATTAINED <br> AGE | YEARS OF CREDITED SERVICE |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | UNDER <br> 1 | 1-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | $\begin{gathered} 40 \& \\ \text { UP } \end{gathered}$ | TOTAL |
| Under 25 | 2 | 479 | 14 |  |  |  |  |  |  |  | 495 |
|  |  | 31,696 |  |  |  |  |  |  |  |  | 31,759 |
| 25-29 | 4 | 930 | 265 | 11 |  |  |  |  |  |  | 1,210 |
|  |  | 42,452 | 45,633 |  |  |  |  |  |  |  | 43,089 |
| 30-34 | 4 | 680 | 442 | 187 | 13 |  |  |  |  |  | 1,326 |
|  |  | 56,728 | 58,898 | 55,098 |  |  |  |  |  |  | 59,057 |
| 35-39 | 13 | 457 | 341 | 270 | 102 | 4 |  |  |  |  | 1,187 |
|  |  | 70,060 | 83,066 | 67,303 | 60,173 |  |  |  |  |  | 80,526 |
| 40-44 | 14 | 363 | 294 | 229 | 131 | 78 | 8 |  |  |  | 1,117 |
|  |  | 59,614 | 86,222 | 79,536 | 71,748 | 68,976 |  |  |  |  | 81,825 |
| 45-49 | 13 | 310 | 278 | 305 | 176 | 157 | 89 | 9 |  |  | 1,337 |
|  |  | 58,777 | 79,489 | 77,051 | 84,649 | 75,011 | 76,756 |  |  |  | 80,903 |
| 50-54 | 7 | 277 | 237 | 265 | 150 | 157 | 145 | 93 | 5 |  | 1,336 |
|  |  | 53,274 | 67,520 | 75,489 | 80,494 | 83,156 | 74,324 | 70,427 |  |  | 75,793 |
| 55-59 | 5 | 247 | 210 | 237 | 140 | 126 | 100 | 107 | 57 | 6 | 1,235 |
|  |  | 61,116 | 67,367 | 69,731 | 75,900 | 85,010 | 83,664 | 75,904 | 76,293 |  | 78,333 |
| 60-64 | 3 | 135 | 140 | 155 | 110 | 90 | 69 | 48 | 69 | 49 | 868 |
|  |  | 59,025 | 86,753 | 72,444 | 85,064 | 99,518 | 84,690 | 85,590 | 79,251 | 67,162 | 89,268 |
| 65-69 | 1 | 51 | 43 | 80 | 28 | 35 | 20 | 11 | 4 | 22 | 295 |
|  |  | 76,583 | 97,254 | 81,066 | 73,507 | 79,707 | 103,619 |  |  | 78,166 | 95,738 |
| 70 \& up | 4 | 9 | 8 | 17 | 8 | 2 | 2 | 1 | 2 | 3 | 56 |
|  |  |  |  |  |  |  |  |  |  |  | 66,747 |
| Total | 70 | 3,938 | 2,272 | 1,756 | 858 | 649 | 433 | 269 | 137 | 80 | 10,462 |
|  | 12,914 | 56,956 | 81,750 | 78,447 | 81,497 | 87,506 | 81,230 | 76,567 | 78,859 | 85,145 | 71,572 |

In each cell, the top number is the count of active participants for each age/service combination and the bottom number is average pay for 2017 limited to $\$ 270,000$. Average pay is not shown for cells with fewer than 20 participants.

Schedule SB, Part V — Statement of Actuarial Assumptions/Methods

## ACTUARIAL ASSUMPTIONS FOR OCTOBER 1, 2018 FUNDING VALUATION

## DISCOUNT RATE <br> SPONSOR ELECTIONS

- Segment rates or full yield curve
- Look-back months
- First 5 years
- Next 15 years
- Over 20 years


## Mortality sponsor elections

- Healthy participants
- Pre-1995 disabilities
- Post-1994 disabilities


## 417(e) lump sums

Non-417(e) lump sums
Other economic assumptions

- Salary increases
- Flat-dollar benefit increases
- Social Security wage base
- Inflation
- Expected investment return
- Expenses

Segment
4

| Stabilized |  | Nonstabilized |
| :---: | :---: | :---: |
| $3.92 \%$ | $2.07 \%$ |  |
| $5.52 \%$ | $3.70 \%$ |  |
| $6.29 \%$ | $4.43 \%$ |  |

Section 430(h)(3) prescribed separate static annuitant and nonannuitant mortality tables. These tables are based on the RP2000 mortality tables projected with mortality improvement to the valuation year plus 7 and 15 years based on Scale AA.

Revenue Ruling 96-7 table for participants who became disabled before 1995.
Revenue Ruling 96-7 table for participants who became disabled after 1994 and are eligible for Social Security disability benefits.
None assumed.
Not applicable.
3.00\% per year

N/A
2.45\% per year
2.20\% per year
7.07\% (previously, 6.98\%)
$\$ 7,000,000$ assumed for the current plan year administrative expenses.

## Schedule SB, Part V — Statement of Actuarial Assumptions/Methods

## RATIONALE FOR ECONOMIC ASSUMPTIONS

- Salary increases - The assumption is based on Carilion Clinic's expectations regarding the level of increase in wages.
- Social Security taxable wage base increases - The Social Security wage base increase assumption reflects inflation plus $.25 \%$ real wage growth. This real wage growth is based on a review of historical US Average Wage increases and annual average CPI-U over extended time periods and consideration of more recent and potential future prospects for real wage increases.
- Inflation - This assumption is based on the inflation assumption periodically published by Mercer Investment Consulting in their Capital Markets Outlook.
- Expected investment return - The expected rate of return on plan assets is based the median simulated investment return using capital market assumptions published in Mercer Investment Consulting's Capital Markets Outlook for the plan's target asset mix. The expected return on assets assumption is net of an adjustment of 20 bps for expenses assumed to be paid from plan assets.
- Expenses - Three year average of actual expenses rounded to the nearest $\$ 100,000$.

Schedule SB, Part V - Statement of Actuarial Assumptions/Methods

## DEMOGRAPHIC <br> ASSUMPTIONS

- Withdrawal
- Disability incidence

For plan participants, $20 \%$ are expected to terminate during the first, second and third years of employment and $15 \%$ during the fourth and fifth years. Rates of turnover for plan members who have at least five years of service are assumed to follow the modified SOA 2003 termination table. Mercer slightly modified the termination table developed by the Society of Actuaries to allow for a smoother progression of rates.

Sample rates are as follows:

| Age | Number of Withdrawals <br> Per 100 Participants |
| :---: | :---: |
| 25 | 18.0 |
| 30 | 12.2 |
| 35 | 8.7 |
| 40 | 6.9 |
| 45 | 6.1 |
| 50 | 5.6 |
| 55 | 4.4 |
| 60 | 3.4 |

The rates of disability among active employees are assumed to follow a table of which the following are representative:

| Age | Number of Disabilities <br> Per 100 Lives |
| :---: | :---: |
| 25 | 0.40 |
| 35 | 0.40 |
| 45 | 0.42 |
| 55 | 1.40 |
| 60 | 2.48 |

No disability retirements are assumed to occur after normal retirement age.

Schedule SB, Part V - Statement of Actuarial Assumptions/Methods

- Retirement

Benefit commencement age for

- Future vested deferred
- Current vested deferred
- Spouse assumptions
- Percentage married
- Spouse age difference


## Form of payment

- Active retirements
- Future vested deferred
- Future disabilities
- Future deaths
- Eligible for early, normal retirement or disability
- Not eligible for early, normal retirement or disability
- Current vested deferred

Unpredictable contingent event assumptions

| Attained age | Eligible for <br> Rule of 80 | Not Eligible for <br> Rule of 80 |
| :---: | :---: | :---: |
| 55 | $10 \%$ | $5 \%$ |
| $56-57$ | $10 \%$ | $2 \%$ |
| $58-61$ | $5 \%$ | $2 \%$ |
| 62 | $15 \%$ | $15 \%$ |
| 63 | $15 \%$ | $5 \%$ |
| 64 | $10 \%$ | $5 \%$ |
| 65 | $80 \%$ | $80 \%$ |
| $66-69$ | $25 \%$ | $25 \%$ |
| 70 | $100 \%$ | $100 \%$ |

65
65

## Male participants <br> 80\% <br> 3 years younger

| Single Life | $\underline{50 \% ~ J \& S}$ | $\mathbf{1 0 0 \% ~ J} \& \mathbf{S}$ |
| :---: | :---: | :---: |
|  | $0 \%$ | $0 \%$ |
| $100 \%$ | $0 \%$ | $0 \%$ |
| $100 \%$ | $0 \%$ | $0 \%$ |

0\%
0\%
$0 \% \quad 100 \%$

100\%
0\%
Not applicable.

100\%
Female participants
80\%
3 years older
$100 \% \mathrm{~J} \& \mathrm{~S}$
0\%
\%
0\%

0\%

0\%

## Schedule SB, Part V — Statement of Actuarial Assumptions/Methods

## RATIONALE FOR DEMOGRAPHIC ASSUMPTIONS

- Withdrawal - The withdrawal rates are based on an experience study undertaken in 2014 using data from 2009-2013 and the expectation that the future retirement patterns and circumstances of the employer will not differ significantly from the period studied.
- Disability - Disability rates do not significantly affect valuation results.
- Retirement - The retirement rates are based on an experience study undertaken in 2014 using data from 2009-2013 and the expectation that the future retirement patterns and circumstances of the employer will not differ significantly from the period studied.
- Benefit commencement age - The benefit commencement age for current and future vested termination participants is assumed to be 65, based on the fact that the majority of the vested terminated participants will either not be eligible for early retirement or will incur significant reduction in monthly benefits for early retirement.
- Spouse assumptions - The assumptions regarding percent married/spouse age difference at benefit commencement was developed in conjunction with the plan sponsor based on plan experience and national averages.
- Form of payment - Form of payment assumption is based on plan provisions and historical data.

Schedule SB, Part V — Statement of Actuarial Assumptions/Methods

## ACTUARIAL METHODS FOR FUNDING

## Asset Methods

The asset valuation method is an average of the adjusted market value for each year during the last 2 years preceding the valuation date. The adjusted market value is the market value at each determination date adjusted to the valuation date based on actual cash flows and expected interest at the lesser of the expected rate of return and the third segment rate. This amount is adjusted to be no greater than $110 \%$ and no less than $90 \%$ of the fair market value, as defined in IRC Section 430.

A characteristic of this asset method is that, over time, it is slightly more likely to produce an actuarial value of assets that is less than the market value of assets than an actuarial value that is greater than the market value.

## Participant Methods

Participants or former participants are included or excluded from the valuation as described below:

- Participants included: The plan sponsor provides us with data on all employees as of the valuation date, but only those employees who have completed the plan's eligibility requirements are included in the valuation of liabilities.
- Participants excluded: No actuarial liability is included for nonvested participants who terminated prior to the valuation date.
- Insurance contracts: The plan does not have any insurance contracts.


## Minimum Funding Methods

The funding target for minimum funding calculations is computed using the traditional unit credit method of funding. The objective under this method is to fund each participant's benefits under the plan as they accrue. Thus, the total pension to which each participant is expected to become entitled at retirement is broken down into units, each associated with a year of past or future credited service.

A detailed description of the calculation follows:

- The plan's valuation date is the beginning of the plan year.
- An individual's funding target is the present value of future benefits based on credited service and average pay as of the beginning of the plan year, and an individual's target normal cost is the present value of the benefit expected to accrue in the plan year. If multiple decrements are used, the funding target and the target normal cost for an individual are the

Schedule SB, Part V - Statement of Actuarial Assumptions/Methods
sum of the component funding targets and target normal costs associated with the various anticipated separation dates.

- This plan provides disability benefits that are only partially based on a participant's accrued benefit or years of service. This benefit is allocated to the funding target based on the accrued benefit on the valuation date plus a portion of the excess of the benefit over the accrued benefit multiplied by the ratio of the participant's service at the beginning of the plan year to their service at each decrement age. This benefit is allocated to target normal cost based on the proportionate benefit attributable to the increase in the participant's service and compensation during the plan year
- The plan's target normal cost is the sum of the individual target normal costs, and the plan's funding target is the sum of the individual funding targets for all participants under the plan.


## SCHEDULE OF REPORTABLE TRANSACTIONS

## September 30, 2019




## Part II Beginning of Year Carryover and Prefunding Balances

| 7 |  | (a) Caryover |  |
| :---: | :---: | :---: | :---: |
|  | Balance at beginning of prior year after applicable adjustments (line 13 from prior year). | 0 | 26,319,815 |
| 8 | Portion elected for use to offset prior year's funding requirement (line 35 from prior year) | 0 | 0 |
| 9 | Amount remaining (line 7 minus line 8) | 0 | 26,319,815 |
| 10 | Interest on line 9 using prior year's actual return of 7.01\%. | 0 | 1,845,019 |
| 11 | Prior year's excess contributions to be added to prefunding balance: <br> a Present value of excess contributions (line 38a from prior year) |  | 50,471,381 |
|  | $\mathbf{b}(1)$ Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of 6.01\%........... |  | 3,033,330 |
|  | b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return $\qquad$ |  | 3,033,330 |
|  | C Total available at beginning of current plan year to add to prefunding balance...... |  | 53,504,711 |
|  |  |  |  |
| 12 | Other reductions in balances due to elections or deemed elections ...................... | 0 | 0 |
|  | Balance at beginning of current year (line $9+$ line $10+$ line 11d - line 12)............ | 0 | 28,164,834 |


| 13 Balance at beginning of current year (line 9 |  |
| :---: | :---: |
| Part III | Funding Percentages |


| 14 | Fun | 14 | 102.74\% |
| :---: | :---: | :---: | :---: |
| 15 | Adjusted funding target attainment percentage... | 15 | 105.52\% |
| 16 | Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement | 16 | 103.22\% |
|  | If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage. | 17 | \% |

## Part IV Contributions and Liquidity Shortfalls

18 Contributions made to the plan for the plan year by employer(s) and employees:

| (a) Date <br> (MM-DD-YYY) | (b) Amount paid by <br> employer(s) | (c) Amount paid by <br> employees | (a) Date <br> (MM-DD-YYYY) | (b) Amount paid by <br> employer(s) | (c) Amount paid by <br> employees |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $10 / 15 / 2019$ | $23,000,000$ | 0 |  |  |  |
| $12 / 23 / 2019$ | $10,000,000$ | 0 |  |  |  |
| $01 / 15 / 2020$ | $13,000,000$ | 0 |  |  |  |
| $06 / 11 / 2020$ | $46,000,000$ |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

19 Discounted employer contributions - see instructions for small plan with a valuation date after the beginning of the year:
a Contributions allocated toward unpaid minimum required contributions from prior years.................................... 19a
b Contributions made to avoid restrictions adjusted to valuation date .................................................................. 19b
C Contributions allocated toward minimum required contribution for current year adjusted to valuation date.
19c
20 Quarterly contributions and liquidity shortfalls:
a Did the plan have a "funding shortfall" for the prior year?.
b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner?


C If line 20a is "Yes," see instructions and complete the following table as applicable:
Liquidity shortfall as of end of quarter of this plan year
(1) 1st
(2) $2 n d$
(3) 3rd
(4) 4th

## Part V $\quad$ Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:


## Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment. ........................................................................................................................................................................................... X
X Yes $\square$ No

25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment.............................. $\square$ Yes X No
26 Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment. ...................... X Yes $\square$ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment

27
Part VII $\quad$ Reconciliation of Unpaid Minimum Required Contributions For Prior Years

| 28 | Unpaid minimum required co | 28 |  |
| :---: | :---: | :---: | :---: |
| 29 | Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a) | 29 |  |
|  | Remaining amount of unpaid minimum required contributions (line 28 minus line 29) | 30 |  |

## Part VIII $\quad$ Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):
a Target normal cost (line 6)......................................................................................................................... 31a $\quad$ 31a $\quad 44,135,379$
b Excess assets, if applicable, but not greater than line 31a ..........................................................................| 31b $\quad 27,884,449$

|  | Amortization installments: <br> a Net shortfall amortization installment. <br> b Waiver amortization installment . |  | Outstanding Balance |  | Installment |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 0 |  |
|  |  |  |  | 0 |  |
| 33 | If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month $\qquad$ Day $\qquad$ Year $\qquad$ ) and the waived amount. $\qquad$ |  |  | 33 |  |
| 34 | Total funding requirement before reflecting carryover/prefunding balances (lines $31 \mathrm{a}-31 \mathrm{~b}+32 \mathrm{a}+32 \mathrm{~b}-33$ ) .... |  |  | 34 | 16,250,930 |
|  |  | Carryover balance | Prefunding balance |  | Total balance |
| 35 | Balances elected for use to offset funding requirement. |  |  |  |  |
| 36 | Additional cash requirement (line 34 minus line 35)............................................................................... |  |  | 36 | 16,250,930 |
| 37 | Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c). |  |  | 37 | 84,910,889 |
| 38 Present value of excess contributions for current year (see instructions) |  |  |  |  |  |
| a Total (excess, if any, of line 37 over line 36) |  |  |  | 38a | 68,659,959 |
| b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances |  |  |  | 38b |  |
| 39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)........................ |  |  |  | 39 |  |
| 40 | Unpaid minimum required contributions for all years .............................................................................. |  |  | 40 |  |

## Part IX $\quad$ Pension Funding Relief Under Pension Relief Act of 2010 (See Instructions)

41 If an election was made to use PRA 2010 funding relief for this plan:
$\qquad$
b Eligible plan year(s) for which the election in line 41a was made ....................................................................... $\square 2008 \quad \square 2009 \square 2010 \square 2011$

Schedule SB, line 22 - Weighted Average Retirement Age
Eligible for Rule of 80
Each employee is assumed to retire in accordance with the table of retirement rates. The proportion of employees expected to retire at each potential retirement age is shown below.

| (A) | (B) | (C) | (D) | (E) |
| :---: | :---: | :---: | :---: | :---: |
| Retirement age | Retirement Percent | Lx | Number of employees expected to retire <br> (B) $\mathrm{x}(\mathrm{C})$ | (A) $\times$ (D) |
| 55 | 10\% | 10,000 | 1,000 | 55,000 |
| 56 | 10\% | 9,000 | 900 | 50,400 |
| 57 | 10\% | 8,100 | 810 | 46,170 |
| 58 | 5\% | 7,290 | 365 | 21,141 |
| 59 | 5\% | 6,926 | 346 | 20,430 |
| 60 | 5\% | 6,579 | 329 | 19,738 |
| 61 | 5\% | 6,250 | 313 | 19,063 |
| 62 | 15\% | 5,938 | 891 | 55,221 |
| 63 | 15\% | 5,047 | 757 | 47,695 |
| 64 | 10\% | 4,290 | 429 | 27,456 |
| 65 | 80\% | 3,861 | 3,089 | 200,773 |
| 66 | 25\% | 772 | 193 | 12,741 |
| 67 | 25\% | 579 | 145 | 9,701 |
| 68 | 25\% | 434 | 109 | 7,384 |
| 69 | 25\% | 326 | 81 | 5,620 |
| 70 | 100\% | 244 | 244 | 17,103 |
| Total |  |  | 10,000 | 615,637 |
| Average |  |  |  | 61.56 |

Schedule SB, line 22 - Weighted Average Retirement Age
Not Eligible for Rule of $\mathbf{8 0}$
Each employee is assumed to retire in accordance with the table of retirement rates. The proportion of employees expected to retire at each potential retirement age is shown below.

\begin{tabular}{|c|c|c|c|c|}
\hline (A)
Retirement age \& \begin{tabular}{l}
(B) \\
Retirement Percent
\end{tabular} \& (C)

Lx \& | (D) |
| :--- |
| Number of employees expected to retire |
| (B) $x(C)$ | \& (E)

$$
\text { (A) } x \text { (D) }
$$ <br>

\hline 55 \& 5.00\% \& 10,000 \& 500 \& 27,500 <br>
\hline 56 \& 2.00\% \& 9,500 \& 190 \& 10,640 <br>
\hline 57 \& 2.00\% \& 9,310 \& 186 \& 10,613 <br>
\hline 58 \& 2.00\% \& 9,124 \& 182 \& 10,584 <br>
\hline 59 \& 2.00\% \& 8,941 \& 179 \& 10,551 <br>
\hline 60 \& 2.00\% \& 8,762 \& 175 \& 10,515 <br>
\hline 61 \& 2.00\% \& 8,587 \& 172 \& 10,476 <br>
\hline 62 \& 15.00\% \& 8,416 \& 1,262 \& 78,264 <br>
\hline 63 \& 5.00\% \& 7,153 \& 358 \& 22,533 <br>
\hline 64 \& 5.00\% \& 6,796 \& 340 \& 21,746 <br>
\hline 65 \& 80.00\% \& 6,456 \& 5,165 \& 335,699 <br>
\hline 66 \& 25.00\% \& 1,291 \& 323 \& 21,304 <br>
\hline 67 \& 25.00\% \& 968 \& 242 \& 16,220 <br>
\hline 68 \& 25.00\% \& 726 \& 182 \& 12,347 <br>
\hline 69 \& 25.00\% \& 545 \& 136 \& 9,396 <br>
\hline 70 \& 100.00\% \& 409 \& 409 \& 28,597 <br>
\hline Total \& \& \& 10,000 \& 636,984 <br>
\hline Average \& \& \& \& 63.70 <br>
\hline
\end{tabular}

Schedule SB, line 22 - Weighted Average Retirement Age
Weighted Average Retirement Age for both groups:

| (A) Groups | (B) <br> Groups-wise Weighted Total | (C) <br> Number of Participants | (D) <br> Weighted <br> (B) $\times(C)$ |
| :---: | :---: | :---: | :---: |
| Eligible for Rule of 80 | 61.56 | 1,280 | 78,797 |
| Not Eligible for Rule of 80 | 63.70 | 9,182 | 584,893 |
| Total |  | 10,462 | 663,690 |
| Total Weighted Average <br> Total of (d) / Total of (c) |  |  | 63.44 |

## Schedule SB, Part V - Summary of Plan Provisions

## SUMMARY OF MAJOR PLAN PROVISIONS

Effective date
Status of the plan
Significant events that occurred during the year

## Definitions

- Participation
- Credited service
- Compensation
- Final average Compensation

Restated October 1, 2016, last amended December 21, 2017.
The plan has ongoing accruals.
None.

First of the month coinciding with or next following the completion of one year of service and the attainment of age 21
All plan years of service with at least 1,000 hours of service. Break-In-Service rules also apply.
Total earnings including overtime, bonuses and commissions in effect during the year preceding the valuation date not in excess of the IRC Section 401(a)(17) compensation limit. In determining benefit accruals on or after October 1, 2002, the annual compensation limit for plan years prior to October 1, 2002 shall be $\$ 200,000$ (except for plan years October 1, 1989 through September 30, 1994).
Average of the total compensation for the 5 highest consecutive plan years of credited service.

## Schedule SB, Part V - Summary of Plan Provisions

## Normal retirement

- Eligibility
- Benefit

The later of age 65 or the first day of the plan year which contains the fifth (5th) anniversary of the date the participant commenced participation in the Plan.
Payable upon the normal retirement of any participant and the greater of:
a. The sum of:
(1) For participants under the plan or former plan as of September 30, 1992, the participant's accrued benefit at September 30, 1992 determined under the provisions of the Plan or former plan based on credited service as of September 30, 1992, plus
(2) An amount ("the post 1992, accrued benefit") determined in c. below based on the credited service accrued after September 30, 1992. Total credited service from the sum of (1) and (2) is limited to 35 years or
b. The sum of:
(1) Accrued benefit as of September 30, 1994, determined as if employment had terminated on that day based on the formula in effect on that date with compensation not to exceed the amount determined by the Secretary of Treasury pursuant to IRC Section 401(a)(17), with the 1993 amount of $\$ 235,840$ applied to all plan years retroactively to the first day of the plan year beginning after December 31, 1988, plus
(2) An amount ("the post 1994 accrued benefit") determined in c. below based on the credited service accrued after September 30, 1994. Total credited service from the sum of (1) and (2) is limited to thirty-five years; or
c. The sum of
(1) $.95 \%$ of final average compensation times credited service up to thirty-five years, plus
(2) $.65 \%$ of final average compensation in excess of covered compensation times credited service up to thirty-five years; or
d. $\$ 300.00$ per year

For non-highly compensated employees who were participants in the Radford Community Hospital plan on September 30, 1992 and were still active participants on September 30, 1997, there was a one-time election for participants who were age 55 and older prior to April 1, 1998 to continue under Radford's formula. All other Radford participants are eligible for the greater of the following three benefits.
a. The sum of:
(1) accrued benefit as of September 30, 1997, determined as if employment had terminated on that day based on the Radford formula, plus
(2) an amount ("the post-1997 accrued benefit") determined in b. below based on the credited service accrued after September 30, 1997. Total credited service from the sum of (1) and (2) is limited to thirty-five years; or
b. The sum of:
(1) $.95 \%$ of final average compensation times credited service up to thirty-five years, plus
(2) $.65 \%$ of final average compensation in excess of covered compensation times credited service up to thirty-five years with the accrued benefit as of September 30, 1997 as a minimum; or
c. $\$ 300.00$ per year

## Schedule SB, Part V - Summary of Plan Provisions

For acquisitions listed in Appendix D of the plan, employment from the participant's most recent hire date with acquisitions will be recognized for vesting in the plan, early retirement eligibility, except for Rule of 80, disability retirement eligibility, and normal retirement.

Accrued normal retirement benefit

## Delayed retirement

- Eligibility
- Benefit


## Early retirement

- Eligibility
- Benefit

Same as the Normal Retirement Benefit calculation, except that final average compensation, covered compensation, and credited service are computed at date of termination.

First of any month after the participant's normal retirement date.
The greater of:
a. benefit as determined in Normal Retirement Benefit calculation above with credited service, covered compensation and final average compensation computed as of his delayed retirement date, or
b. the normal retirement benefit as calculated at the participant's normal retirement date and actuarially increased to reflect the later commencement.

First day of any month, provided attained age 55 and completed 10 years of credited service.
Accrued benefit as of the early retirement date payable:
a. At age 65 without reduction, or
b. If the sum of age and service is less than 80 , the accrued benefit is reduced by the early retirement factors listed below, reflecting the early commencement of payments.
If the sum of age and service is greater than or equal to 80 , only the excess portion of the accrued benefit is reduced by the following early retirement factors reflecting the early commencement of payments.

| Age | Factor |
| :---: | :---: |
| 65 | 1.0000 |
| 64 | 0.9231 |
| 63 | 0.8462 |
| 62 | 0.7692 |
| 61 | 0.7308 |
| 60 | 0.6923 |
| 59 | 0.6538 |
| 58 | 0.6154 |
| 57 | 0.5769 |
| 56 | 0.5292 |
| 55 | 0.4862 |

## Schedule SB, Part V - Summary of Plan Provisions

## Disability retirement

- Eligibility
- Benefit


## Deferred vested

- Eligibility
- Benefit


## Pre-retirement death

- Eligibility
- Benefit


## Form of benefit

Automatic form for unmarried participants

Automatic form for married participants
Optional forms

Option form conversion factors

Completed 5 years of credited service and totally and permanently disabled (eligible for and receiving Social Security disability benefits).
Commencing on the normal retirement date, the monthly retirement allowance the participant would have been entitled to had he remained in service until his disability date with final average compensation and covered compensation determined as of the disability date.

Effective February 1, 2018, the monthly retirement allowance for future disabled participants includes service earned through the participant's disability date.

5 years of credited service or the attainment of Normal Retirement Age.
Commencing on his normal retirement date calculated the same as in the Normal Retirement Benefit calculation. A participant who has enough credited service to be eligible for early retirement may receive a reduced benefit on or after age 55 .

If a married participant has completed at least 5 years of service and dies before beginning to receive any benefits, the surviving spouse will receive a lifetime monthly allowance.
If eligible for early, normal retirement, or disability the same amount that the spouse would have received if the participant had:
a. Separated from service on the date of death.
b. Retired with an immediate 100\% Joint and Survivor Annuity.

If not eligible for early or normal retirement at death, the same amount that the spouse would have received if the participant had:
c. Separated from service on the date of death.
d. Survived to earliest retirement age.
e. Retired with an immediate 50\% Joint and Survivor Annuity.

## Straight Life

Joint and 50\% Survivor

Straight Life
Ten Year Certain and Continuous
Fifteen Year Certain and Continuous
Joint and Last Survivor - 50\%, 66 2/3\%, 75\% and 100\%
Level Income Option
Lump sum - benefits with a present value of up to $\$ 5,000$ are automatically paid as a lump sum based on IRC Section 417(e)(3) assumptions
UP 1984 Mortality Table setback 5 years at $7.5 \%$ interest rate.

## Schedule SB, Part V - Summary of Plan Provisions

## Miscellaneous

Maximum benefits
Annual benefits may not exceed the limits in IRC Section 415. Annual compensation may not exceed the limits in IRC Section 401(a)(17).

## Benefits Included or Excluded

Unless noted below, all benefits provided by the plan, as restated and amended through October 1,2016 are included in this valuation:

- Most recent plan amendments included: Last amended December 21, 2017.
- Plan amendments excluded: None.
- Late retirement increases:
- Active participants: The actuarially increased normal retirement benefit is valued as a minimum benefit for any participant over normal retirement age.
- Deferred vested participants: Current deferred vested participants over normal retirement age are valued with retirement benefit back payments adjusted with interest and added to the future annuity payment stream.
- Internal Revenue Code limitations: The limitations of Internal Revenue Code Section 415(b) and 401(a)(17) have been incorporated into our calculations.
- IRC Section 416 rules for top-heavy plans: We did not test whether this plan is top-heavy (when the present value of benefits for key employees equals or exceeds $60 \%$ of the present value for all participants). However, we expect that the plan is not top-heavy due to the large number of rank-and-file participants; therefore, the funding target and target normal cost do not reflect any liability for top-heavy benefit accruals.


## PLAN PROVISIONS SPECIFIC TO FUNDING

Additional Benefits Included or Excluded

- IRC Section 436 benefit restrictions:
- Unpredictable contingent event benefits: This valuation excludes restricted contingent event benefits that occurred before the valuation date but includes contingent event benefits which are expected to occur on or after the valuation date regardless of anticipated funding-based limitations.
- Plan amendments: See above.


## Schedule SB, Part V - Summary of Plan Provisions

- Prohibited payments: Limitations on prohibited benefits (if any) are reflected for annuity starting dates before the valuation date but are ignored for annuity starting dates on or after the valuation date.
- Benefit accruals: The plan's funding target does not reflect any limitation on benefit accruals. The target normal cost does not reflect any limitation on benefit accruals

PLAN PROVISION CHANGES SINCE PRIOR VALUATION

- Maximum compensation amounts and maximum benefit amounts under IRS rules were updated from 2017 to 2018.
- The plan's disability benefit for disablements after February 1, 2018, was amended to exclude service after a participant becomes disabled.


## SCHEDULE OF ASSETS (HELD AT END OF YEAR)

September 30, 2019

| (b) <br> Identity of Issuer | (c) <br> Description of Investment Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value |  | (d) <br> Cost |  | (e) <br> Current <br> Value |
| :---: | :---: | :---: | :---: | :---: | :---: |
| APOLLO EUROPEAN PRINCIPAL | Venture Capital | \$ | 4,668,043.00 | \$ | 4,765,303.00 |
| APOLLO INVESTMENT FUND VIII, L.P. | Venture Capital | \$ | 10,095,440.00 | \$ | 13,019,016.00 |
| APOLLO TOTAL RETURN FUND | Venture Capital | \$ | 28,000,000.00 | \$ | 34,124,450.00 |
| AVENUE ASIA SPECIAL SITUATIONS FUND V LP | Venture Capital | \$ | 12,735,994.00 | \$ | 13,735,161.00 |
| BB AGGREGATOR LLC | Venture Capital | \$ | 3,545,739.00 | \$ | 9,018,596.00 |
| BDCM OPPORTUNITY FUND IV | Venture Capital | \$ | 16,348,660.00 | \$ | 17,807,781.00 |
| BLACKMOOR OWNERSHIP HOLDINGS LTD | Venture Capital | \$ | 19,000,000.00 | \$ | 20,597,529.00 |
| BLACKSTONE CAPITAL PARTNERS VII LP | Venture Capital | \$ | 5,887,050.00 | \$ | 6,885,600.00 |
| BLACKSTONE TACTICAL OPPORTUNITIES |  |  |  |  |  |
| FUND L.P. | Venture Capital | \$ | 6,791,835.00 | \$ | 6,123,977.00 |
| BLACKSTONE TACTICAL OPPORTUNITIES |  |  |  |  |  |
| FUND II, LP | Venture Capital | \$ | 10,918,004.00 | \$ | 11,353,842.00 |
| BUILDERS UNION FUND LIMITED | Venture Capital | \$ | 10,000,000.00 | \$ | 10,000,000.00 |
| CARLYLE PARTNERS VI, LP | Venture Capital | \$ | 13,018,077.00 | \$ | 13,779,003.00 |
| CEMOF II OFFSHORE INVESTORS LP | Venture Capital | \$ | 6,549,393.00 | \$ | 5,922,165.00 |
| COLONY DISTRESSED CREDIT FUND III LP | Venture Capital | \$ | 7,808,616.00 | \$ | 8,219,182.00 |
| DOUBLEBLUE ARGENTINA CONSUMER | Venture Capital | \$ | 9,250,000.00 | \$ | 9,150,362.00 |
| ELLIOT INTERNATIONAL LIMITED |  |  |  |  |  |
| CLASS B | Venture Capital | \$ | 14,839,385.00 | \$ | 18,901,841.00 |
| EXCELSIOR PARTNERS FUND IV | Venture Capital | \$ | - | \$ | 123,800.00 |
| FENGHE ASIA (USTE) FUND LTD. | Venture Capital | \$ | 9,000,000.00 | \$ | 9,102,339.00 |
| FENGHE ASIA (USTE) FUND LTD. | Venture Capital | \$ | 1,000,000.00 | \$ | 1,002,027.00 |
| GOLDMAN SACHS PRIVATE MIDDLE MARKET |  |  |  |  |  |
| CREDIT LLC | Venture Capital | \$ | 11,755,066.00 | \$ | 12,071,542.00 |
| HAMILTON LANE PRIVATE EQUITY |  |  |  |  |  |
| OFFSHORE FUND VI L.P. | Venture Capital | \$ | 918,648.00 | \$ | 1,422,609.00 |
| HIGHLAND DIRECT HEDGED EQUITY |  |  |  |  |  |
| COLLECTIVE FUND | Collective Investment Trust | \$ | 81,242,187.00 | \$ | 95,388,917.00 |
| KERRISDALE PARTNERS OFFSHORE LTD | Venture Capital | \$ | 10,000,000.00 | \$ | 12,347,175.00 |
| MAGNITUDE SYSTEMATIC LONG/SHORT LTD | Venture Capital | \$ | 10,000,000.00 | \$ | 10,487,686.00 |
| OAKTREE PRIVATE INVESTMENT FUND 2012 LP | Venture Capital | \$ | 4,532,000.00 | \$ | 7,083,392.00 |

## SCHEDULE OF ASSETS (HELD AT END OF YEAR) September 30, 2019

| (b) <br> Identity of Issuer | (c) <br> Description of Investment Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value |  | (d) <br> Cost |  | (e) <br> Current <br> Value |
| :---: | :---: | :---: | :---: | :---: | :---: |
| OLD FARM PARTNERS OFFSHORE FUND LTD FOUNDERS CLASS NI SERIES JULY 2018 | Venture Capital | \$ | 9,000,000.00 | \$ | 8,992,516.00 |
| OLD FARM PARTNERS OFFSHORE FUND LTD FOUNDERS CLASS NI SERIES | Venture Capital | \$ | 1,000,000.00 | \$ | 1,025,322.00 |
| ONYXPOINT PERMIAN EQUITY | Venture Capital | \$ | 1,049,744.00 | \$ | 1,177,930.00 |
| ONYXPOINT PERMIAN EQUITY FEEDER LLC | Venture Capital | \$ | 2,090,784.00 | \$ | 2,430,408.00 |
| ONYXPOINT PERMIAN EQUITY III | Venture Capital | \$ | 5,107,493.00 | \$ | 5,800,958.00 |
| ONYXPOINT PERMIAN FIXED INCOME | Venture Capital | \$ | 7,733,506.00 | \$ | 10,615,885.00 |
| PACIFIC NORTH OF SOUTH EM ALL CAP EQ | Venture Capital | \$ | 10,000,000.00 | \$ | 10,000,000.00 |
| PIMCO BRAVO FUND OFFSHORE |  |  |  |  |  |
| FEEDER II L.P. | Venture Capital | \$ | 1,824,261.00 | \$ | 5,455,674.00 |
| POINTER OFFSHORE III, LTD. |  |  |  |  |  |
| IRT MIRRORED HOLDING | Venture Capital | \$ | 45,306,815.00 | \$ | 71,436,060.00 |
| RA CAPITAL HEALTHCARE |  |  |  |  |  |
| INTERNATIONAL FUND LTD | Venture Capital | \$ | 9,062,086.00 | \$ | 21,608,504.00 |
| RAVEN ASSET BASED OPPORTUNITIES |  |  |  |  |  |
| FUND III LP | Venture Capital | \$ | 18,852,543.00 | \$ | 19,397,420.00 |
| RAVEN ASSET-BASED CREDIT | Venture Capital | \$ | 21,117,983.00 | \$ | 20,936,338.00 |
| RAVEN RPM FUND I LP | Venture Capital | \$ | 7,025,000.00 | \$ | 7,135,484.00 |
| RREEF AMERICA REIT II, INC |  |  |  |  |  |
| IRT MIRRORED HOLDING | Venture Capital | \$ | 26,458,559.00 | \$ | 39,676,731.00 |
| RUNWAY GROWTH CREDIT FUND INC | Venture Capital | \$ | 28,525,119.00 | \$ | 27,949,745.00 |
| SANDGLASS OPPORTUNITY FEEDER | Venture Capital | \$ | 3,192,986.00 | \$ | 3,209,249.00 |
| SANDGLASS OPPORTUNITY FEEDER FUND (CAYMAN) LTD. CLASS A1 SHARES | Venture Capital | \$ | 5,000,000.00 | \$ | 5,145,717.00 |
| SANDGLASS OPPORTUNITY FEEDER FUND (CAYMAN) LTD. CLASS A1 SHARES | Venture Capital | \$ | 783,231.00 | \$ | 787,694.00 |
| SANDGLASS OPPORTUNITY FEEDER FUND (CAYMAN) LTD. CLASS B2 SHARES | Venture Capital | \$ | 1,023,782.00 | \$ | 1,030,546.00 |
| SILVER CREEK - SPECIAL OPPORTUNITIES |  |  |  |  |  |
| FUNDS CAYMAN II | Venture Capital | \$ | 1,848,983.00 | \$ | 833,716.00 |
| SILVER CREEK-LOW VOLATILITY |  |  |  |  |  |
| STRATEGIES LP | Venture Capital | \$ | 1.00 | \$ | 23,917.00 |
| SOLACE CAPITAL SPECIAL SITUATIONS |  |  |  |  |  |
| FUND LP | Venture Capital | \$ | 10,286,567.00 | \$ | 9,493,350.00 |
| SOUTH AFRICA ALPHA TANGIBLE SP | Venture Capital | \$ | 6,000,000.00 | \$ | 7,571,286.00 |
| SPROTT PRIVATE RESOURCE LENDING INTERNATIONAL FUND LP | Venture Capital | \$ | 7,344,933.00 | \$ | 7,695,782.00 |
| SPROTT PRIVATE RESOURCE LENDING C-CO-INVEST INTERNATIONAL FUND LP | Venture Capital | \$ | 5,578,558.00 | \$ | 5,906,066.00 |

## SCHEDULE OF ASSETS (HELD AT END OF YEAR)

September 30, 2019

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| :---: | :---: | :---: | :---: | :---: | :---: |
| SPROTT PRIVATE RESOURCE LENDING II (INTERNATIONAL), LP | Venture Capital | \$ | 2,641,510.00 | \$ | 2,595,492.00 |
| STARWOOD VEP II CO-INVEST LLC | Venture Capital | \$ | 1,036,496.00 | \$ | 1,036,496.00 |
| TA XII-B L.P. | Venture Capital | \$ | 8,271,244.00 | \$ | 12,374,435.00 |
| TALLINN CAPITAL ENERGY LP | Venture Capital | \$ | 1,563,911.00 | \$ | 1,558,052.00 |
| THIRD POINT OFFSHORE FUND, LTD | Venture Capital | \$ | 10,041,943.00 | \$ | 12,799,418.00 |
| TI PLATFORM BOV CAYMAN LP | Venture Capital | \$ | 1,132,457.00 | \$ | 1,132,457.00 |
| TT EMERGING MARKETS OPP FUND II | Venture Capital | \$ | 10,971,996.00 | \$ | 11,888,908.00 |
| UBS TRUMBULL PROPERTY INCOME FUND |  |  |  |  |  |
| (TPI) IRT MIRRORED HOLDINGSHIP | Venture Capital | \$ | 31,972,535.00 | \$ | 45,835,665.00 |
| WARBURG PINCUS PRIVATE EQUITY XII LP | Venture Capital | \$ | 12,415,500.00 | \$ | 14,884,971.00 |
| WMQS GLOBAL EQUITY ACTIVE EXTENSION | Venture Capital | \$ | 42,000,000.00 | \$ | 42,639,833.00 |
| HIGHLAND EQUITY FUND COLLECTIVE | Investment Trust | \$ | 56,440,216.00 | \$ | 70,012,582.00 |
| HIGHLAND FIXED INCOME FUND | Collective Investment Trust | \$ | 14,476,109.00 | \$ | 16,067,213.00 |
| HIGHLAND PUBLIC INFLATION HEDGE | Fund Collective Investment Trust | \$ | 48,310,654.00 | \$ | 53,165,308.00 |
| AMG YACKTMAN SPECIAL OPPORTUNITIES | FUND CLASS Z \#1180 | \$ | 5,000,000.00 | \$ | 4,881,703.00 |
| ARTISAN GLOBAL | Value Fund Class-Ins | \$ | 10,937,252.00 | \$ | 11,205,177.00 |
| DAVENPORT SMALL CAP FOCUS | Investment Trust | \$ | 5,030,248.00 | \$ | 5,165,949.00 |
| OAKMARK CLOBAL SELECT FUND | CLASS INST \#2884 | \$ | 11,504,177.00 | \$ | 10,103,187.00 |
| POLARIS GLOBAL | Value Fund \#778 | \$ | 11,127,344.00 | \$ | 11,164,609.00 |
| WELLS FARGO | Collateralized Institutional BankDeposit Account | \$ | 15,281,366.00 | \$ | 15,281,366.00 |
| SM ENERGY CO | Corporate Debt Instruments | \$ | 292,740.00 | \$ | 281,194.00 |
| ADVANTAGE OIL \& GAS LTD | Common | \$ | 1,099,739.00 | \$ | 428,582.00 |
| AERCAP HOLDINGS NV | Common | \$ | 1,299,136.00 | \$ | 1,445,400.00 |
| AIA GROUP LTD USD 1.0 | Common | \$ | 1,276,241.00 | \$ | 1,377,209.00 |
| AIR FRANCE-KLM EUR RFD | Common | \$ | 1,073,116.00 | \$ | 1,202,789.00 |
| ALIBABA GROUP HOLDING LTD. | Common | \$ | 1,199,785.00 | \$ | 1,157,733.00 |

## SCHEDULE OF ASSETS (HELD AT END OF YEAR)

September 30, 2019

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| :---: | :---: | :---: | :---: | :---: | :---: |
| ALIO GOLD INC | Common | \$ | 506,766.00 | \$ | 78,365.00 |
| ALLEGION PUBLIC LIMITED COMPANY | Common | \$ | 489,151.00 | \$ | 617,443.00 |
| AILANCE ONE INTERNATIONAL INC | Common | \$ | 471,313.00 | \$ | 478,728.00 |
| ALPHABET INC CL C | Common | \$ | 1,218,438.00 | \$ | 1,493,275.00 |
| AMERICAN INTERNATIONAL GROUP, INC | Common | \$ | 696,559.00 | \$ | 646,120.00 |
| ANTHEM INC | Common | \$ | 1,204,253.00 | \$ | 964,722.00 |
| ARDMORE SHIPPING CORP | Common | \$ | 451,206.00 | \$ | 423,002.00 |
| ASANKO GOLD INC | Common | \$ | 482,929.00 | \$ | 532,813.00 |
| ATLAS AIR WORLDWIDE HLDGS INC | Common | \$ | 311,077.00 | \$ | 297,714.00 |
| AVIANCA HOLDINGS SA | Common | \$ | 2,841,164.00 | \$ | 1,476,544.00 |
| BANK NEW YORK MELLON CORP COM | Common | \$ | 1,219,166.00 | \$ | 1,045,753.00 |
| BAYER A G NPV | Common | \$ | 1,514,006.00 | \$ | 1,022,687.00 |
| BEAZER HOMES USA INC | Common | \$ | 945,807.00 | \$ | 831,420.00 |
| BECTON DICKINSON \& CO | Common | \$ | 1,418,453.00 | \$ | 1,467,674.00 |
| BERKSHIRE HATHAWAY INC. | Common | \$ | 2,185,277.00 | \$ | 2,419,273.00 |
| BLUE CAPITAL HOLDING LTD. | Common | \$ | 694,401.00 | \$ | 436,378.00 |
| BONANZA CREEK ENERGY INC | Common | \$ | 106,438.00 | \$ | 125,384.00 |
| BRITISH AMERICAN TOBACCO PLC | Common | \$ | 1,361,425.00 | \$ | 865,756.00 |
| CAI INTERNATIONAL INC | Common | \$ | 100,141.00 | \$ | 100,142.00 |
| CAPITAL PRODUCT PARTNERS LP | Common | \$ | 375,266.00 | \$ | 306,469.00 |
| CITIGROUP INC. | Common | \$ | 771,829.00 | \$ | 773,696.00 |
| COREPOINT LODGING INC | Common | \$ | 1,281,912.00 | \$ | 1,144,452.00 |
| DANONE EUR 0.25 | Common | \$ | 1,113,156.00 | \$ | 1,155,918.00 |
| DCC PLC EUR 0.25 | Common | \$ | 1,184,282.00 | \$ | 1,168,578.00 |
| DEUTSCHE BOERSE AG NPV | Common | \$ | 999,131.00 | \$ | 1,231,608.00 |

## SCHEDULE OF ASSETS (HELD AT END OF YEAR)

September 30, 2019

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| :---: | :---: | :---: | :---: | :---: | :---: |
| DEUTSCHE TELEKOM AG RFD | Common | \$ | 1,310,361.00 | \$ | 1,216,486.00 |
| DIAMOND S SHIPPING INC | Common | \$ | 210,599.00 | \$ | 216,796.00 |
| DOLLAR GENERAL CORP | Common | \$ | 832,398.00 | \$ | 1,299,017.00 |
| ECOLAB INC | Common | \$ | 644,543.00 | \$ | 967,821.00 |
| ELDORADO GOLD CORPORATION | Common | \$ | 120,543.00 | \$ | 290,598.00 |
| ERA GROUP INC | Common | \$ | 583,690.00 | \$ | 607,158.00 |
| ESSILOR INTL EUR . 35 RFD | Common | \$ | 1,158,976.00 | \$ | 1,298,912.00 |
| FIDELITY NATL INFORMATION SVCS INC | Common | \$ | 1,501,365.00 | \$ | 1,495,276.00 |
| FLY LEASING LTD. | Common | \$ | 776,643.00 | \$ | 1,158,815.00 |
| FRESENIUS MEDICAL CARE AG + CO NPV | Common | \$ | 1,267,572.00 | \$ | 889,116.00 |
| GILEAD SCIENCES INC | Common | \$ | 973,626.00 | \$ | 794,088.00 |
| GOLD FIELDS LIMITED - ADR | Common | \$ | 1,114,827.00 | \$ | 1,390,392.00 |
| GREEN PLAINS INC. | Common | \$ | 282,194.00 | \$ | 235,209.00 |
| IAMGOLD CORP | Common | \$ | 2,260,489.00 | \$ | 1,344,904.00 |
| INFORMA PLC P | Common | \$ | 871,049.00 | \$ | 1,014,391.00 |
| INTERNATIONAL SEAWAYS INC | Common | \$ | 804,467.00 | \$ | 843,781.00 |
| JP MORGAN STRUCTURED PR WTS | Common | \$ | 262,941.00 | \$ | 654,600.00 |
| KNORR-BREMSE AG EUR 1.0 | Common | \$ | 888,325.00 | \$ | 887,165.00 |
| KOREA ELECTRIC POWER CORPORATI - ADR | Common | \$ | 719,600.00 | \$ | 641,728.00 |
| KUEHNE + NAGEL INTERNATIONA CHF 1.0 | Common | \$ | 1,192,078.00 | \$ | 1,315,135.00 |
| LINDE PUBLIC LIMITED COMPANY | Common | \$ | 740,942.00 | \$ | 878,133.00 |
| M/I HOMES, INC | Common | \$ | 682,142.00 | \$ | 978,900.00 |
| MACQUARIE BANK LTD | Common | \$ | 895,565.00 | \$ | 665,416.00 |
| MICROSOFT CORP | Common | \$ | 1,058,051.00 | \$ | 1,769,157.00 |
| NATURGY ENERGY GROUP SA EUR 1.0 | Common | \$ | 660,044.00 | \$ | 816,817.00 |

## SCHEDULE OF ASSETS (HELD AT END OF YEAR)

September 30, 2019

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| :---: | :---: | :---: | :---: | :---: | :---: |
| NESTLE SA CHF 0.1 | Common | \$ | 1,203,820.00 | \$ | 1,574,330.00 |
| PHOTRONICS INC COM | Common | \$ | 421,746.00 | \$ | 568,480.00 |
| PROGRESSIVE CORP OHIO | Common | \$ | 1,372,601.00 | \$ | 1,519,044.00 |
| RELX PLC | Common | \$ | 1,058,355.00 | \$ | 1,215,883.00 |
| RESOLUTE FOREST PRODUCTS | Common | \$ | 308,419.00 | \$ | 299,860.00 |
| RESONA HOLDINGS INC | Common | \$ | 1,475,256.00 | \$ | 1,134,848.00 |
| SHERWIN WILLIAMS CO | Common | \$ | 668,376.00 | \$ | 1,077,195.00 |
| TAYLOR MORRISON HOME CORP | Common | \$ | 1,171,905.00 | \$ | 1,297,000.00 |
| TUTOR PERINI CORP | Common | \$ | 739,062.00 | \$ | 541,674.00 |
| UNUM GROUP | Common | \$ | 547,323.00 | \$ | 594,400.00 |
| VERITIV CORP | Common | \$ | 181,990.00 | \$ | 119,328.00 |
| VERIZON COMMUNICATIONS | Common | \$ | 1,940,602.00 | \$ | 2,066,002.00 |
| VERSO CORP | Common | \$ | 343,021.00 | \$ | 239,553.00 |
| VISA INC-CLASS A SHRS | Common | \$ | 1,011,809.00 | \$ | 1,012,279.00 |
| WALT DISNEY | Common | \$ | 1,355,621.00 | \$ | 1,534,648.00 |

Schedule SB, line 24 - Change in Actuarial Assumptions

- The expected return on assets for the 2018 plan year was changed from $6.98 \%$ to $7.07 \%$ to be consistent with the $50^{\text {th }}$ percentile return of the Portfolio Return Calculator.
- The expense component of normal cost changed from $\$ 5,100,000$ to $\$ 7,000,000$.


[^0]:    \$ 863,623,611

[^1]:    * Latest Valuation Date

