

Town of Narragansett Chapter 1666 Police Pension Plan

July 1, 2018 Actuarial Valuation Report

Town of Narragansett Chapter 1666 Police Pension Plan

Actuarial Valuation as of July 1, 2018

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Schedule of Amortizations

At the request of the plan sponsor, this report summarizes the Town of Narragansett Chapter 1666 Police Pension Plan as of July 1, 2018. The purpose of this report is to communicate the following results of the valuation:

- · Funded Status; and
- Actuarially Determined Contribution as of July 1, 2018 for plan year ending June 30, 2020

This report has been prepared in accordance with the applicable Federal and State laws. Consequently, it may not be appropriate for other purposes. Please contact Nyhart prior to disclosing this report to any other party or relying on its content for any purpose other than that explained above. Failure to do so may result in misrepresentation or misinterpretation of this report.

The results in this report were prepared using information provided to us by other parties. The census information has been provided to us by the Town. Asset information has been provided to us by the Board. We have reviewed the provided data for reasonableness when compared to prior information provided, but have not audited the data. Where relevant data may be missing, we have made assumptions we believe to be reasonable. We are not aware of any significant issues with and have relied on the data provided. Any errors in the data provided may result in a different result than those provided in this report. A summary of the data used in the valuation is included in this report.

The actuarial assumptions and methods were chosen by the Town. In our opinion, all actuarial assumptions and methods are individually reasonable and in combination represent our best estimate of anticipated experience of the plan. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following:

- plan experience differing from that anticipated by the economic or demographic assumptions;
- changes in economic or demographic assumptions;
- increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period); and
- changes in plan provisions or applicable law.

We did not perform an analysis of the potential range of future measurements due to the limited scope of our engagement. This report has been prepared in accordance with generally accepted actuarial principles and practice.

Neither Nyhart nor any of its employees have any relationship with the plan or its sponsor which could impair or appear to impair the objectivity of this report.

To the extent that this report or any attachment concerns tax matters, it is not intended to be used and cannot be used by a taxpayer for the purpose of avoiding penalties that may be imposed by law.



The undersigned are compliant with the continuing education requirements of the Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States and are available for any questions.

Nyhart

Elizabeth A. Wiley, ASA, EA

Carter M. Angell, FSA, EA, MAAA

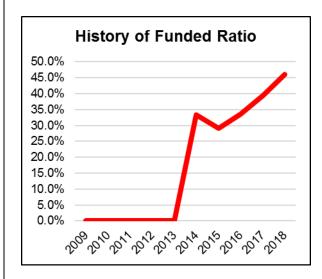
November 29, 2018

Date

Summary Results

The actuarial valuation's primary purpose is to produce a scorecard measure displaying the funding progress of the plan toward the ultimate goal of paying benefits at retirement. The accrued liability is based on an entry age normal method.

Valuation Date	July 1, 2017	July 1, 2018
For Plan Year Ending	June 30, 2019	June 30, 2020
Funded Status Measures		
Entry Age Accrued Liability	\$2,373,613	\$2,256,065
Actuarial Value of Assets	934,315	1,038,723
Unfunded Accrued Liability	\$1,439,298	\$1,217,342
Funded Percentage (AVA)	39.4%	46.0%
Funded percentage (MVA)	39.4%	46.0%
Cost Measures		
Actuarially Determined Contribution	\$215,294	\$198,887
Actuarially Determined Contribution		
(as a percentage of payroll)	N/A	N/A
Asset Performance		
Market Value of Assets (MVA)	\$934,315	\$1,038,723
Actuarial Value of Assets (AVA)	\$934,315	\$1,038,723
Actuarial Value/Market Value	100.0%	100.0%
Participant Information		
Active Participants	0	0
Terminated Vested Participants	0	0
Retirees, Beneficiaries, and Disabled Participants	16	14
Total	16	14





Changes since Prior Valuation and Key Notes

There have been no changes to the plan provisions since the last valuation.

The mortality for healthy participants has been updated from the RP-2014 Blue Collar Mortality Table with generational improvements from 2006 based on assumptions from the 2016 SSA Trustee's Report to the RP-2014 Blue Collar Mortality Table with generational improvements from 2006 based on assumptions from the 2017 SSA Trustee's Report. This change caused a decrease in the funding liability and the actuarially determined contribution.

The mortality for disabled participants has been updated from the RP-2014 Disabled Mortality Table with generational improvements from 2006 based on assumptions from the 2016 SSA Trustee's Report to the RP-2014 Disabled Mortality Table with generational improvements from 2006 based on assumptions from the 2017 SSA Trustee's Report. This change caused a decrease in the funding liability and the actuarially determined contribution.

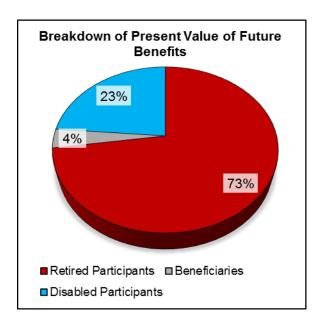


Present Value of Future Benefits

The Present Value of Future Benefits represents the future benefits payable to the existing participants.

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Present Value of Future Benefits	
Active participants	
Retirement	\$0
Disability	0
Death	0
Termination	0
Refund of contributions	0
Total active	\$0
nactive participants	
Retired participants	\$1,639,581
Beneficiaries	82,768
Disabled participants	533,716
Terminated vested participants	0
Total inactive	\$2,256,065
Total	\$2,256,065
Present value of future payrolls	N/A





Funding Liability

The Funding Liability measures the present value of benefits earned as of the valuation date, using a specified set of actuarial assumptions.

	July 1, 2018
Entry Age Normal Liabilities	
Active participants	
Retirement	\$0
Disability	0
Death	0
Termination	0
Refund of contributions	0
Total Active	\$0
nactive participants	
Retired participants	\$1,639,581
Beneficiaries	82,768
Disabled participants	533,716
Terminated vested participants	0
Total Inactive	\$2,256,065
-otal	\$2,256,065
Normal Cost	\$0

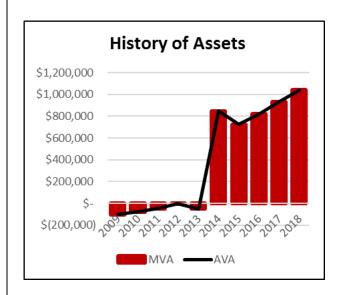


Asset Information

The amount of assets backing the pension promise is the most significant driver of volatility and future costs within a pension plan. The investment performance of the assets directly offsets the ultimate cost.

July	1,	2018
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Market Value Reconciliation	
Market value of assets, beginning of prior year	\$934,315
Employer Contributions	\$267,000
Investment income	\$83,730
Benefit payments	(\$246,322)
Market value of assets, beginning of current year	\$1,038,723
Return on Market Value	8.89%
Market value of assets available for pension benefits	\$1,038,723
Actuarial value of assets	
Value at beginning of current year	\$1,038,723





Reconciliation of Gain/Loss

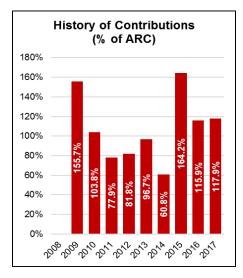
	July 1, 2018
Liability (gain)/loss	
Actuarial liability, July 1, 2017	\$2,373,613
Normal cost	0
Benefit payments	(246,322)
Expected Interest	162,187
Change in actuarial assumptions	(4,934)
Expected actuarial liability, beginning of current year	\$2,284,544
Actual actuarial liability	\$2,256,065
Liability (gain)/loss	(\$28,479)
Asset (gain)/loss	
Actuarial value of assets, July 1, 2017	\$934,315
Contributions	267,000
Benefit payments	(246,322)
Expected investment return	68,003
Expected actuarial value of assets, beginning of current year	\$1,022,996
Actual actuarial value of assets, beginning of current year	\$1,038,723
Asset (gain)/loss	(\$15,727)
Total (gain)/loss	(\$44,206)

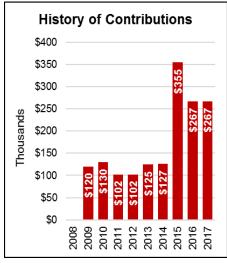


Development of Actuarially Determined Contribution

The actuarially determined contribution is the annual amount necessary to fund the plan according to funding policies and/or applicable laws.

Valuation Date For Plan Year Ending	July 1, 2018 June 30, 2020
Funded Position	
1. Entry age accrued liability	\$2,256,065
2. Actuarial value of assets	\$1,038,723
3. Unfunded actuarial accrued liability (UAAL)	\$1,217,342
Employer Contributions	
1. Normal Cost	\$0
2. Amortization of UAAL	179,190
3. Applicable interest	19,697
Actuarially determined contribution	\$198,887







Demographic Information

The foundation of a reliable actuarial report is the participant information provided by the plan sponsor. Monitoring trends in demographic information is crucial for long-term pension planning.

	July 1, 2018
Participant Counts	
Active Participants	0
Retired Participants	8
Beneficiaries	4
Disabled Participants	2
Terminated Vested Participants	0
Total Participants	14
Active Participant Demographics	
Average Age	N/A
Average Service	N/A
Average Compensation	N/A
Covered Payroll	N/A
Total Payroll	N/A



	July 1, 2018		
Retiree Statistics			
Average Age	75.9		
Average Monthly Benefit	\$1,909		
Beneficiary Statistics			
Average Age	87.2		
Average Monthly Benefit	\$353		
Disabled Participants Statistics			
Average Age	67.8		
Average Monthly Benefit	\$1,803		
Terminated Participants Statistics			
Average Age	N/A		
Average Monthly Benefit	N/A		



Participant Reconciliation

	Active	Terminated Vested	Disabled	Retired	Beneficiaries	Totals
Prior Year	0	0	2	8	6	16
Disabled						
To Death	0	0	0	0	0	0
Retired						
To Death	0	0	0	0	0	0
Survivor						
To Death	0	0	0	0	(2)	(2)
Additions	0	0	0	0	0	0
Departures	0	0	0	0	0	0
Current Year	0	0	2	8	4	14

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Name of Plan Town of Narragansett Chapter 1666 Police Pension Plan

Participation All members of the permanent Police Force who were hired prior to July 1, 1978 and refused the September 1984

offer to join the Chapter 1666 Pension Plan

Benefits

Normal Retirement

Eligibility The attainment of age 65 or the completion of 20 years of service

Benefit 50% of Final Earnings

Disability Retirement

Eligibility A member becomes unable to perform Active Police Duty by reason of clearly proved physical or mental infirmities

Benefit 50% of Final Earnings in the Year of Disability

Preretirement Death

Eligibility An active member dies after 25 Years of Service

Benefit His widow shall receive 67.5% of the member's Accrued Benefit continuing until her death or remarriage

Optional Forms of PaymentMarried participants are entitled to a 67.5% Joint and Survivor Annuity. If not married, participants are entitled to

a Life Annuity



Except where otherwise indicated, the following assumptions were selected by the plan sponsor with the concurrence of the actuary. Prescribed assumptions are based on the requirements of the relevant law, the Internal Revenue Code, and applicable regulation. The actuary was not able to evaluate the prescribed assumptions for reasonableness for the purpose of the measurement.

Valuation Date July 1, 2018

Participant and Asset Information Collected as of July 1, 2018

Cost Method (CO) Entry Age Normal Cost Method

Amortization Method (CO)

Unfunded Actuarial Accrued Liability is amortized over the average expected future

lifetime of the plan participants

Asset Valuation MethodThe actuarial value of assets is equal to the market value of assets

Interest Rates (CO) 7.2%

This assumption has been set by the plan sponsor in conjunction with their asset advisor. Detailed evaluation of this assumption was outside the scope of our

engagement.

Expense and/or Contingency Loading (FE) None

Mortality Rates (FE)

Healthy RP-2014 Blue Collar Mortality Table with generational improvements from 2006 based

on assumptions from the 2017 SSA Trustee's Report

Disabled RP-2014 Disabled Mortality Table with generational improvements from 2006 based

on assumptions from the 2017 SSA Trustee's Report

As the plan is not large enough to have credible experience, mortality assumptions

are set to reflect general population trends.



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Cost of Living Adjustment

3% for eligible employees

FE indicates an assumption representing an estimate of future experience
MD indicates an assumption representing observations of estimates inherent in market data
CO indicates an assumption representing a combination of an estimate of future experience and observations of market data



The actuarial report also shows the necessary items required for plan reporting and any state requirements.

✓ Schedule of Amortizations



Schedule of Amortizations

		July 1, 2018		
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<u>Date Established</u>	<u>Original Amount</u>	Remaining Years	<u>Balance</u>	<u>Payment</u>
7/1/2014	\$1,694,385	9	\$1,343,299	\$193,970
7/1/2015	\$131,154	9	\$107,813	\$15,568
7/1/2016	(\$37,869)	10	(\$33,533)	(\$4,495)
7/1/2017	(\$88,113)	10	(\$82,589)	(\$11,071)
7/1/2018	(\$117,648)	11	<u>(\$117,648)</u>	<u>(\$14,782)</u>
Total			\$1,217,342	\$179,190

