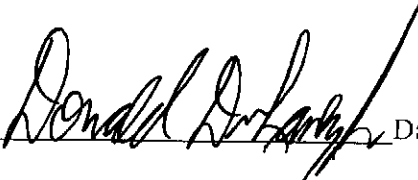


**TOWN OF DAVIE FIREFIGHTERS'
PENSION PLAN**

**SECTION 112.664, FLORIDA STATUTES
COMPLIANCE**

With respect to the reporting standards for defined benefit retirement plans or systems contained in Section 112.664(1), F.S., the actuarial disclosures required under this section were prepared and completed by me or under my direct supervision and I acknowledge responsibility for the results. To the best of my knowledge, the results are complete and accurate, and in my opinion, meet the requirements of Section 112.664(1), Florida Statutes, and Section 60T-1.0035, Florida Administrative Code.

By:

 Date: 4/8/20

Donald A. DuLaney, Jr. A.S.A.
Senior Consulting Actuary
Enrolled Actuary #20-4191

DuLaney and Company

D

INTRODUCTION

Section 112.664, F.S. Requirements

When reviewing the report, please note the following:

DuLaney and Company has prepared this report in order to satisfy the requirements set forth under Florida Statutes (FS) 112.664 and Ch. 60T-1.0035, F.A.C. These schedules have no impact on the funding requirements of the Plan. We have uploaded the semi-colon delimited file as described under Ch. 60T-1.0035.

The actuarial funding assumptions shown in our October 1, 2019 actuarial valuation report have been used in the preparation of this report, except as required for certain disclosures herein.

This report contains figures using an investment return assumption that is 2.0% higher than the actual funding assumption, in order to provide a balanced view, in light of the requirement to use an investment return assumption that is 2.0% lower than the actual funding assumption.

The schedules showing the projected number of years until the Fund becomes insolvent are required, but do not reflect what will occur. This is because no future contributions from any current funding source are assumed, as required for these disclosures, contrary to Florida Statutes.

SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS

	Actual	Under Section 112.664(1)(a), F.S.	Under Section 112.664(1)(b), F.S.	Under Section 112.664(1)(b), F.S.
	Discount Rate: 7.40%	Discount Rate: 7.40%	Discount Rate: 5.40%	Discount Rate: 9.40%
	FRS 7/1/2019 Mortality 9/30/2019	FRS 7/1/2019 Mortality 9/30/2019	FRS 7/1/2019 Mortality 9/30/2019	FRS 7/1/2019 Mortality 9/30/2019
1. Total pension liability:				
a. Service cost	\$ 4,180,475	\$ 4,180,475	\$ 6,282,244	\$ 2,901,127
b. Interest	\$ 10,190,543	\$ 10,190,543	\$ 9,332,489	\$ 10,699,916
c. Benefit changes	\$ -	\$ -	\$ -	\$ -
d. Difference between expected and actual experience	\$ 1,482,185	\$ 1,482,185	\$ 2,739,905	\$ 559,709
e. Changes in assumptions	\$ (3,543,745)	\$ (3,543,745)	\$ (5,987,211)	\$ (2,233,779)
f. Benefit payments	\$ (4,865,939)	\$ (4,865,939)	\$ (4,865,939)	\$ (4,865,939)
g. Contribution refunds	\$ (5,031)	\$ (5,031)	\$ (5,031)	\$ (5,031)
h. Net change in total pension liability	\$ 7,438,489	\$ 7,438,489	\$ 7,496,457	\$ 7,056,003
i. Total pension liability – beginning	\$ 139,508,794	\$ 139,508,794	\$ 174,964,320	\$ 115,597,031
j. Total pension liability – ending	\$ 146,947,283	\$ 146,947,283	\$ 182,460,777	\$ 122,653,034
2. Plan fiduciary net position:				
a. Contributions – Town	\$ 5,270,253	\$ 5,270,253	\$ 5,270,253	\$ 5,270,253
b. Contributions – State	\$ 952,655	\$ 952,655	\$ 952,655	\$ 952,655
c. Contributions – Member	\$ 1,490,415	\$ 1,490,415	\$ 1,490,415	\$ 1,490,415
d. Net investment income	\$ 4,916,515	\$ 4,916,515	\$ 4,916,515	\$ 4,916,515
e. Benefit payments	\$ (4,865,939)	\$ (4,865,939)	\$ (4,865,939)	\$ (4,865,939)
f. Contributions refunds	\$ (5,031)	\$ (5,031)	\$ (5,031)	\$ (5,031)
g. Administrative expense	\$ (134,572)	\$ (134,572)	\$ (134,572)	\$ (134,572)
h. Other	\$ -	\$ -	\$ -	\$ -
i. Net change in plan fiduciary net position	\$ 7,624,296	\$ 7,624,296	\$ 7,624,296	\$ 7,624,296
j. Plan fiduciary net position – beginning	\$ 116,422,111	\$ 116,422,111	\$ 116,422,111	\$ 116,422,111
k. Plan fiduciary net position – ending	\$ 124,046,407	\$ 124,046,407	\$ 124,046,407	\$ 124,046,407
3. Net pension liability/(asset) [(a)1.j. minus (a)2.k.]	\$ 22,900,876	\$ 22,900,876	\$ 58,414,370	\$ (1,393,373)



PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Plan Assumptions: 7.40% and FRS 7/1/2019 Mortality

<u>Year</u>	<u>Projected Beginning</u> <u>Fiduciary Net Position</u>	<u>Projected Benefit</u> <u>Payments</u>	<u>Projected Investment</u> <u>Earnings</u>	<u>Projected Ending</u> <u>Fiduciary Net Position</u>
10/1/2019	\$106,735,485	\$6,515,442	\$7,657,355	\$107,877,398
10/1/2020	\$107,877,398	\$6,998,564	\$7,723,981	\$108,602,814
10/1/2021	\$108,602,814	\$7,277,752	\$7,767,331	\$109,092,394
10/1/2022	\$109,092,394	\$7,451,085	\$7,797,147	\$109,438,455
10/1/2023	\$109,438,455	\$8,044,767	\$7,800,789	\$109,194,478
10/1/2024	\$109,194,478	\$8,371,360	\$7,770,651	\$108,593,769
10/1/2025	\$108,593,769	\$8,774,736	\$7,711,274	\$107,530,307
10/1/2026	\$107,530,307	\$9,149,778	\$7,618,701	\$105,999,229
10/1/2027	\$105,999,229	\$9,396,380	\$7,496,277	\$104,099,126
10/1/2028	\$104,099,126	\$9,581,733	\$7,348,811	\$101,866,205
10/1/2029	\$101,866,205	\$9,681,104	\$7,179,898	\$99,364,999
10/1/2030	\$99,364,999	\$9,719,447	\$6,993,390	\$96,638,942
10/1/2031	\$96,638,942	\$9,760,405	\$6,790,147	\$93,668,684
10/1/2032	\$93,668,684	\$9,751,359	\$6,570,682	\$90,488,007
10/1/2033	\$90,488,007	\$9,704,301	\$6,337,053	\$87,120,760
10/1/2034	\$87,120,760	\$9,639,882	\$6,090,261	\$83,571,138
10/1/2035	\$83,571,138	\$9,536,500	\$5,831,414	\$79,866,052
10/1/2036	\$79,866,052	\$9,448,201	\$5,560,504	\$75,978,355
10/1/2037	\$75,978,355	\$9,350,504	\$5,276,430	\$71,904,281
10/1/2038	\$71,904,281	\$9,218,039	\$4,979,849	\$67,666,091
10/1/2039	\$67,666,091	\$9,072,345	\$4,671,614	\$63,265,360
10/1/2040	\$63,265,360	\$8,931,314	\$4,351,178	\$58,685,224
10/1/2041	\$58,685,224	\$8,759,231	\$4,018,615	\$53,944,609
10/1/2042	\$53,944,609	\$8,576,868	\$3,674,557	\$49,042,297
10/1/2043	\$49,042,297	\$8,382,031	\$3,318,995	\$43,979,261



10/1/2044	\$43,979,261	\$8,177,281	\$2,951,906	\$38,753,886
10/1/2045	\$38,753,886	\$7,963,706	\$2,573,130	\$33,363,311
10/1/2046	\$33,363,311	\$7,741,679	\$2,182,443	\$27,804,075
10/1/2047	\$27,804,075	\$7,511,752	\$1,779,567	\$22,071,889
10/1/2048	\$22,071,889	\$7,274,600	\$1,364,160	\$16,161,449
10/1/2049	\$16,161,449	\$7,030,999	\$935,800	\$10,066,250
10/1/2050	\$10,066,250	\$6,781,804	\$493,976	\$3,778,422
10/1/2051	\$3,778,422	\$6,527,933		

Number of Years Expected Benefit Payments Sustained: 32.58

Note: As required in Section 112.664(c) of the Florida Statutes, the projection of the Fund assets do not include contributions from the Employer, Employee or State, which is contrary to Florida Statutes and Plan provisions. For this reason, these projections should not be viewed as a representation of the amount of time the Fund can sustain benefit payments. Under the GASB standards which DO include contributions from the employer, employee and State, the Fund is expected to be able to sustain the benefit payment demands in the near-term and long-term future.

PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Plan Assumptions: 7.40% and FRS 7/1/2019 Mortality

<u>Year</u>	<u>Projected Beginning Fiduciary Net Position</u>	<u>Projected Benefit Payments</u>	<u>Projected Investment Earnings</u>	<u>Projected Ending Fiduciary Net Position</u>
10/1/2019	\$106,735,485	\$6,515,442	\$7,657,355	\$107,877,398
10/1/2020	\$107,877,398	\$6,998,564	\$7,723,981	\$108,602,814
10/1/2021	\$108,602,814	\$7,277,752	\$7,767,331	\$109,092,394
10/1/2022	\$109,092,394	\$7,451,085	\$7,797,147	\$109,438,455
10/1/2023	\$109,438,455	\$8,044,767	\$7,800,789	\$109,194,478
10/1/2024	\$109,194,478	\$8,371,360	\$7,770,651	\$108,593,769
10/1/2025	\$108,593,769	\$8,774,736	\$7,711,274	\$107,530,307
10/1/2026	\$107,530,307	\$9,149,778	\$7,618,701	\$105,999,229
10/1/2027	\$105,999,229	\$9,396,380	\$7,496,277	\$104,099,126
10/1/2028	\$104,099,126	\$9,581,733	\$7,348,811	\$101,866,205
10/1/2029	\$101,866,205	\$9,681,104	\$7,179,898	\$99,364,999
10/1/2030	\$99,364,999	\$9,719,447	\$6,993,390	\$96,638,942
10/1/2031	\$96,638,942	\$9,760,405	\$6,790,147	\$93,668,684
10/1/2032	\$93,668,684	\$9,751,359	\$6,570,682	\$90,488,007
10/1/2033	\$90,488,007	\$9,704,301	\$6,337,053	\$87,120,760
10/1/2034	\$87,120,760	\$9,639,882	\$6,090,261	\$83,571,138
10/1/2035	\$83,571,138	\$9,536,500	\$5,831,414	\$79,866,052
10/1/2036	\$79,866,052	\$9,448,201	\$5,560,504	\$75,978,355
10/1/2037	\$75,978,355	\$9,350,504	\$5,276,430	\$71,904,281
10/1/2038	\$71,904,281	\$9,218,039	\$4,979,849	\$67,666,091
10/1/2039	\$67,666,091	\$9,072,345	\$4,671,614	\$63,265,360
10/1/2040	\$63,265,360	\$8,931,314	\$4,351,178	\$58,685,224
10/1/2041	\$58,685,224	\$8,759,231	\$4,018,615	\$53,944,609
10/1/2042	\$53,944,609	\$8,576,868	\$3,674,557	\$49,042,297
10/1/2043	\$49,042,297	\$8,382,031	\$3,318,995	\$43,979,261



10/1/2044	\$43,979,261	\$8,177,281	\$2,951,906	\$38,753,886
10/1/2045	\$38,753,886	\$7,963,706	\$2,573,130	\$33,363,311
10/1/2046	\$33,363,311	\$7,741,679	\$2,182,443	\$27,804,075
10/1/2047	\$27,804,075	\$7,511,752	\$1,779,567	\$22,071,889
10/1/2048	\$22,071,889	\$7,274,600	\$1,364,160	\$16,161,449
10/1/2049	\$16,161,449	\$7,030,999	\$935,800	\$10,066,250
10/1/2050	\$10,066,250	\$6,781,804	\$493,976	\$3,778,422
10/1/2051	\$3,778,422	\$6,527,933		

Number of Years Expected Benefit Payments Sustained: 32.58

Note: As required in Section 112.664(c) of the Florida Statutes, the projection of the Fund assets do not include contributions from the Employer, Employee or State, which is contrary to Florida Statutes and Plan provisions. For this reason, these projections should not be viewed as a representation of the amount of time the Fund can sustain benefit payments. Under the GASB standards which DO include contributions from the employer, employee and State, the Fund is expected to be able to sustain the benefit payment demands in the near-term and long-term future.



PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Plan Assumptions: 5.40% and FRS 7/1/2019 Mortality

Year	<u>Projected Beginning</u>	<u>Projected Benefit</u>	<u>Projected Investment</u>	<u>Projected Ending</u>
	<u>Fiduciary Net Position</u>	<u>Payments</u>	<u>Earnings</u>	<u>Fiduciary Net Position</u>
10/1/2019	\$106,735,485	\$6,515,442	\$5,587,799	\$105,807,842
10/1/2020	\$105,807,842	\$6,998,564	\$5,524,662	\$104,333,941
10/1/2021	\$104,333,941	\$7,277,752	\$5,437,533	\$102,493,722
10/1/2022	\$102,493,722	\$7,451,085	\$5,333,482	\$100,376,119
10/1/2023	\$100,376,119	\$8,044,767	\$5,203,102	\$97,534,453
10/1/2024	\$97,534,453	\$8,371,360	\$5,040,834	\$94,203,927
10/1/2025	\$94,203,927	\$8,774,736	\$4,850,094	\$90,279,285
10/1/2026	\$90,279,285	\$9,149,778	\$4,628,037	\$85,757,545
10/1/2027	\$85,757,545	\$9,396,380	\$4,377,205	\$80,738,370
10/1/2028	\$80,738,370	\$9,581,733	\$4,101,165	\$75,257,802
10/1/2029	\$75,257,802	\$9,681,104	\$3,802,532	\$69,379,230
10/1/2030	\$69,379,230	\$9,719,447	\$3,484,053	\$63,143,836
10/1/2031	\$63,143,836	\$9,760,405	\$3,146,236	\$56,529,667
10/1/2032	\$56,529,667	\$9,751,359	\$2,789,315	\$49,567,623
10/1/2033	\$49,567,623	\$9,704,301	\$2,414,636	\$42,277,958
10/1/2034	\$42,277,958	\$9,639,882	\$2,022,733	\$34,660,809
10/1/2035	\$34,660,809	\$9,536,500	\$1,614,198	\$26,738,507
10/1/2036	\$26,738,507	\$9,448,201	\$1,188,778	\$18,479,084
10/1/2037	\$18,479,084	\$9,350,504	\$745,407	\$9,873,987
10/1/2038	\$9,873,987	\$9,218,039	\$284,308	\$940,256
10/1/2039	\$940,256	\$9,072,345		



Number of Years Expected Benefit Payments Sustained: 20.10

Note: As required in Section 112.664(c) of the Florida Statutes, the projection of the Fund assets do not include contributions from the Employer, Employee or State, which is contrary to Florida Statutes and Plan provisions. For this reason, these projections should not be viewed as a representation of the amount of time the Fund can sustain benefit payments. Under the GASB standards which DO include contributions from the employer, employee and State, the Fund is expected to be able to sustain the benefit payment demands in the near-term and long-term future.

PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Plan Assumptions: 9.40% and FRS 7/1/2019 Mortality

<u>Year</u>	<u>Projected Beginning Fiduciary Net Position</u>	<u>Projected Benefit Payments</u>	<u>Projected Investment Earnings</u>	<u>Projected Ending Fiduciary Net Position</u>
10/1/2019	\$106,735,485	\$6,515,442	\$9,726,910	\$109,946,953
10/1/2020	\$109,946,953	\$6,998,564	\$10,006,081	\$112,954,470
10/1/2021	\$112,954,470	\$7,277,752	\$10,275,666	\$115,952,384
10/1/2022	\$115,952,384	\$7,451,085	\$10,549,323	\$119,050,622
10/1/2023	\$119,050,622	\$8,044,767	\$10,812,654	\$121,818,509
10/1/2024	\$121,818,509	\$8,371,360	\$11,057,486	\$124,504,635
10/1/2025	\$124,504,635	\$8,774,736	\$11,291,023	\$127,020,922
10/1/2026	\$127,020,922	\$9,149,778	\$11,509,927	\$129,381,071
10/1/2027	\$129,381,071	\$9,396,380	\$11,720,191	\$131,704,882
10/1/2028	\$131,704,882	\$9,581,733	\$11,929,917	\$134,053,067
10/1/2029	\$134,053,067	\$9,681,104	\$12,145,976	\$136,517,939
10/1/2030	\$136,517,939	\$9,719,447	\$12,375,872	\$139,174,364
10/1/2031	\$139,174,364	\$9,760,405	\$12,623,651	\$142,037,611
10/1/2032	\$142,037,611	\$9,751,359	\$12,893,222	\$145,179,473
10/1/2033	\$145,179,473	\$9,704,301	\$13,190,768	\$148,665,940
10/1/2034	\$148,665,940	\$9,639,882	\$13,521,524	\$152,547,582
10/1/2035	\$152,547,582	\$9,536,500	\$13,891,257	\$156,902,340
10/1/2036	\$156,902,340	\$9,448,201	\$14,304,754	\$161,758,893
10/1/2037	\$161,758,893	\$9,350,504	\$14,765,862	\$167,174,251
10/1/2038	\$167,174,251	\$9,218,039	\$15,281,132	\$173,237,344
10/1/2039	\$173,237,344	\$9,072,345	\$15,857,910	\$180,022,909
10/1/2040	\$180,022,909	\$8,931,314	\$16,502,382	\$187,593,977
10/1/2041	\$187,593,977	\$8,759,231	\$17,222,150	\$196,056,896
10/1/2042	\$196,056,896	\$8,576,868	\$18,026,235	\$205,506,263
10/1/2043	\$205,506,263	\$8,382,031	\$18,923,633	\$216,047,865



10/1/2044	\$216,047,865	\$8,177,281	\$19,924,167	\$227,794,752
10/1/2045	\$227,794,752	\$7,963,706	\$21,038,412	\$240,869,458
10/1/2046	\$240,869,458	\$7,741,679	\$22,277,870	\$255,405,649
10/1/2047	\$255,405,649	\$7,511,752	\$23,655,079	\$271,548,976
10/1/2048	\$271,548,976	\$7,274,600	\$25,183,698	\$289,458,073
10/1/2049	\$289,458,073	\$7,030,999	\$26,878,602	\$309,305,676
10/1/2050	\$309,305,676	\$6,781,804	\$28,755,989	\$331,279,861
10/1/2051	\$331,279,861	\$6,527,933	\$30,833,494	\$355,585,422
10/1/2052	\$355,585,422	\$6,270,355	\$33,130,323	\$382,445,390
10/1/2053	\$382,445,390	\$6,010,080	\$35,667,393	\$412,102,703
10/1/2054	\$412,102,703	\$5,748,073	\$38,467,495	\$444,822,125
10/1/2055	\$444,822,125	\$5,485,304	\$41,555,470	\$480,892,291
10/1/2056	\$480,892,291	\$5,222,729	\$44,958,407	\$520,627,970
10/1/2057	\$520,627,970	\$4,961,291	\$48,705,848	\$564,372,527
10/1/2058	\$564,372,527	\$4,701,839	\$52,830,031	\$612,500,719
10/1/2059	\$612,500,719	\$4,445,170	\$57,366,145	\$665,421,694
10/1/2060	\$665,421,694	\$4,191,980	\$62,352,616	\$723,582,330
10/1/2061	\$723,582,330	\$3,942,839	\$67,831,426	\$787,470,916
10/1/2062	\$787,470,916	\$3,698,263	\$73,848,448	\$857,621,101
10/1/2063	\$857,621,101	\$3,458,688	\$80,453,825	\$934,616,238
10/1/2064	\$934,616,238	\$3,224,521	\$87,702,374	\$1,019,094,091

Number of Years Expected Benefit Payments Sustained: 999.99

Note: As required in Section 112.664(c) of the Florida Statutes, the projection of the Fund assets do not include contributions from the Employer, Employee or State, which is contrary to Florida Statutes and Plan provisions. For this reason, these projections should not be viewed as a representation of the amount of time the Fund can sustain benefit payments. Under the GASB standards which DO include contributions from the employer, employee and State, the Fund is expected to be able to sustain the benefit payment demands in the near-term and long-term future.



ACTUAL AND HYPOTHETICAL CONTRIBUTIONS APPLICABLE TO THE FISCAL YEAR
 ENDING SEPTEMBER 30, 2020

Valuation Date: 10/1/2019

	<u>ACTUAL</u>	Interest Rate: 7.40%	Interest Rate: 5.40%	Interest Rate: 9.40%
PENSION COST	FRS 7/1/2019 Mortality	FRS 7/1/2019 Mortality	FRS 7/1/2019 Mortality	FRS 7/1/2019 Mortality
Normal Cost	4,334,533	4,334,533	6,536,608	2,990,435
Administrative Expenses	134,572	134,572	134,572	134,572
Payment Required to Amortize UAAL	2,581,879	2,581,879	5,086,124	381,384
Interest Adjustment	330,869	330,869	398,905	216,094
Total Required Contribution (TRC)	7,381,853	7,381,853	12,156,209	3,722,485
TRC as % of Payroll	49.19%	49.19%	81.00%	24.80%

