ACTUARIAL VALUATION REPORT

FIREFIGHTERS' PENSION AND
RELIEF FUND FOR THE CITY
OF NEW ORLEANS
[NEW FUND]

Annual Actuarial Valuation as of January 1, 2018

CONEFRY & COMPANY, LLC

ACTUARIAL AND EMPLOYEE BENEFIT CONSULTING NEW ORLEANS, LOUISIANA

711

INTRODUCTION

We present in this report the results of our actuarial valuation of the Firefighters' Pension and Relief Fund of the City of New Orleans as of January 1, 2018. The New Fund plan is intended to be actuarially funded, and we have performed this actuarial valuation using conventional and generally accepted actuarial methods, assumptions, and principles as would typically be applied to a qualified defined benefit pension plan subject to the funding standards of the Employee Retirement Income Security Act of 1974 (ERISA). We have performed the New Fund actuarial valuation using the Entry Age Normal Cost Method effective with the January 1, 2015 actuarial valuation (the method formerly used through and including the January 1, 2014 actuarial valuation was the Aggregate Level Cost Method). A full description of the funding method is contained in the body of the report.

The Summary of Plan Provisions presented in the Appendix is intended to describe the principal benefits provided by the plan, particularly from the perspective of their significance in affecting the actuarial liability and cost of the plan. The summary is not, of course, intended to be a comprehensive or complete description of all benefits payable under all circumstances under the pension plan.

and or production increases and area one justice him and through the target

FIREFIGHTERS' PENSION AND RELIEF FUND FOR THE CITY OF NEW ORLEANS New System

SUMMARY

as of January 1, 2018			
Market Value of Assets	\$	42,194,604	Page
Actuarial Value of Assets	\$	42,194,604	Page
EMPLOYER AND EMPLOYEE CONTRI Plan Year Beginning January 1, 2018 - Ne	and the same		
	,, ,, ,,,	id.	
Total Plan Contribution			
(As % of Payroll)	\$ 3	36,878,931 (132.837%)	Page
Employee Plan Contribution			
(As % of Payroll)	\$	2,776,248 (10.000%)	Page
Employer Plan Contribution Including	g		
Expenses (As % of Payroll)	\$ 3	34,102,683 (122.837%)	Page
PENDIX			
SUMMARY OF PLAN PROVISIONS			Exhibit
STATEMENT OF ACTUARIAL BASIS			
FOR FUNDING PURPOSES			Exhibit
ACTIVE AND INACTIVE PARTICIPANT	PRO	FILES	Exhibit I
ACCOUNTING INFORMATION AND FU	AIDINI	C DDOCDESS	Exhibit I

CERTIFICATION

I. FINANCIAL AND ACTUARIAL STATUS as of January 1, 2018 New Fund

We have conducted this actuarial valuation using employee data and asset information furnished by the plan administrator and the auditors. This section of the report presents a summary of the assets of the plan at Fair Market Value. The funding method used to determine the actuarial liabilities is described in Section II and the actuarial assumptions upon which the liabilities are based are summarized in Exhibit II of the report.

ASSETS

The following table showing the composition of the assets as of December 31, 2017 is based on information supplied by the auditors through the System administrative staff.

<u>Table 1</u> <u>Market Value of Assets</u> <u>As of December 31, 2017</u> New Fund

CURRENT ASSETS

(1)	Cash in Banks Accrued investment income Receivables Total Current Assets	\$	757,102 0 2,217,864	\$	2,974,966
(1)	Total Cultent Assets			Φ	2,974,900
INV	ESTMENTS				
	Cash equivalents Bonds Stock Hedge Funds Notes receivable Investment in partnerships, LLC, etc. Real Estate	\$	20,633,359 253,477 2,685 0 0 15,263,032 3,201,000	The state of the s	
(2)	Total Investments			\$	39,353,553
CUR	Accounts payable Due to Old system	\$	133,915		
(3)	Notes Payable Accrued Interest Payable Total Current Liabilities	÷	0	\$	133,915
	ASSETS AVAILABLE FOR PENSION BE + (2) - (3)	NEI	FITS:	\$	42,194,604

^{*} The actuarial value of assets used in this valuation is Market Value as set forth in Table 2.

Til Rainthound on the control of the

ACTUARIAL VALUE OF ASSETS

Beginning with the January 1, 1999 actuarial valuation, the method of determining the actuarial value of assets was changed to adjusted market value from the former basis involving the average of cost and market values of securities. This method reflected actual market value performance over a rolling three year period ending on the valuation date. The realized and unrealized market to market performance is smoothed over the three years immediately preceding the valuation date.

For purposes of settlement discussions in conjunction with mandamus litigation involving determination of the funding contributions, the three year smoothing period was changed to a seven year period. Recent substantial changes in the valuation of certain assets of the fund, however, causes retrospective smoothing of the asset value to be inappropriate and, accordingly, the board of trustees has selected actual market value for commencing with the January 1, 2015 actuarial valuation. The use of a smoothing feature in future valuations in determining the actuarial valuation of assets will be addressed by the board as investment conditions in the fund are stabilized.

The following table develops the Actual Market Value of Assets to be used as the Actuarial Value of Assets in this actuarial valuation.

Table 2 Actuarial Value of Assets As of December 31, 2017 New Fund

Current Assets	\$ 2,974,966
Investments	39,353,553
Inventory and Intangible Assets	0
Property & Equipment, Net of Depreciation	0
Smoothing Adjustment	0
TOTAL ASSETS	\$ 43,155,813
Less, TOTAL LIABILITIES	158,075
Actuarial Value of Assets (Market Value)	<u>\$ 42,194,604</u>
15/14 1 16 18	

II.

EMPLOYER CONTRIBUTIONS

for the Plan Year Beginning January 1, 2018

New Fund

DESCRIPTION OF ACTUARIAL COST METHOD

Under the Entry Age Normal Cost Method, the normal cost of the plan is designed to be a level percentage of payroll, calculated on an individual basis, spread over the entire working lifetime of each participant. The future working lifetime is determined from each participant's hypothetical entry age into the plan assuming the plan had always been in existence, to his expected retirement date. The actuarial accrued liability is the amount of total liability not covered by future entry age normal costs. This amount is composed of the actuarial value of benefits already funded (assets) and those not yet funded (unfunded actuarial liability).

The plan's funding cost for the year is the sum of the Entry Age Normal Cost and the amount necessary to amortize the remaining unfunded actuarial liability as of the valuation date over the adopted amortization period.

The basis used to amortize the unfunded actuarial liability can be "open" (that is, a constant number of years) or "closed" (that is, with the remaining period reducing by one each year). The basis may also be either a level dollar amortization method (more conservative) or a method based on increasing valuation payroll (less conservative). The amortization period and method adopted and used in this valuation is 30 year, level dollar open amortization.

to amorphic the committing responded as control liability as of 100

TYTE OF THE PROPERTY AND A THE TRETTER OF THE PARTY OF TH

Table 3 Entry Age Normal Cost for Plan Year Beginning January 1, 2018

(1)	Total Entry Age Normal Cost of all active participants, assumed payable monthly	\$ 6,224,252
(2)	Current annual payroll of active participants *	\$ 27,762,479
(3)	Composite Entry Age Normal Cost Percentage: (1) divided by (2)	22.420%

^{*} There are 513 active participants.

Table 4 Entry Age Normal Cost Unfunded Actuarial Liability as of January 1, 2018

(1)	(b) Survivor Benefits (c) Disability Benefits (d) Vesting Benefit (e) Refunds of Employee Contributions	2,128,780 6,370,748 2,307,349 1,980,879 189,704 32,977,460
(2)	(b) Disability Retirement (c) Survivors and Widows (d) Terminated Vested (e) P.L.O.P. Account Balances (f) D.R.O.P. Account Balances (g) D.R.O.P. Future Benefits	23,123,998 52,901,033 23,097,043 271,104 11,403,990 26,002,879 49,191,985 35,992,032
(3)	Grand Total Active and Inactive: (1) + (2)	\$ 468,969,492
(4)	Actuarial Present Value of Future Employer Normal Cost Contributions:	52,804,633
(5)	Entry Age Normal Cost Accrued Actuarial Liability as of January 1, 2018: (3) - (4)	416,164,859
(6)	Actuarial Value of Assets (from Table 2)	42,194,604
(7)	Unfunded Entry Age Normal Cost Actuarial Liability as of January 1, 2018: (5) - (6)	373,970,255
		3,7,7,0,233

* Includes 311 retirees (of a total of 371 retirees) who retired under service retirement benefit formula and who are now classified as disabled as of the valuation date. Disabled mortality assumptions have been applied in calculating the actuarial present value of benefits for these participants. (See page 20 for age grid).

TOTAL REQUIRED CONTRIBUTION FOR PLAN YEAR BEGINNING January 1, 2018 The contribution for a plan year equals the normal cost, plus the expense assumption cost, plus the amount necessary to amortize the Entry Age Normal Cost (EAN) Unfunded Actuarial Liability. This Unfunded Liability for funding purposes is \$ 373,970,255, as developed in Table 4. The annual amount, payable monthly, required to amortize this EAN Unfunded Liability over the open 30 year period ending December 31, 2047 at 7.50% annual interest is \$30,454,679.

The total plan contribution on this basis is developed in the following Table 5.

Table 5
Total Required Contribution for the
Plan Year Beginning January 1, 2018

(1)	Normal Cost (From Table 3)		6,224,252	:00=	
(2)	Expense Assumption Cost		200,000		
(3)	Net Annual charge Required for 30 Year Amortization of EAN Unfunded Liability assumed payable monthly (See Above)		30,454,679		
(4)	Total Plan Contribution assumed payable monthly: $(1) + (2) + (3)$	\$	36,878,931	(132.837%)	*
(5)	Weighted Average of Expected Employee Contributions (Based on Present Value) as of January 1, 2018	\$	2,776,248	(10.000%)	*
(6)	Employer Contribution assumed payable monthly: (4) - (5)	\$	34,102,683	(122.837%)	*
*	Expressed as a percentage of annual participation	pant	payroll of \$2	27,762,479.	

Committee of LAS Ununtied Latering

APPENDIX

9 9 9 - 49

711-

EXHIBIT I FIREFIGHTERS' PENSION AND RELIEF FUND OF THE CITY OF NEW ORLEANS SUMMARY OF PLAN PROVISIONS [NEW FUND]

COVERAGE

Firefighters employed after December 31, 1967 or transferred into the New Fund from the Old Fund.

EMPLOYEE CONTRIBUTIONS:

Through December 31, 2013, 6% of salary for members with less than 20 years of service. Effective January 1, 2014, 10% of salary for all members, implemented on a graded schedule as follows:

For members with less than 20 years of service: 8% effective January 1, 2014 and 10% effective January 1, 2015 and thereafter.

For members with at least 20 years of service: 3.33% effective January 1, 2014; 6.66% effective January 1, 2015; and 10% effective January 1, 2016 and thereafter.

EMPLOYER CONTRIBUTIONS:

Employer contributions are made monthly during any given calendar fiscal year to pay the actuarially determined contributions based on the actuarial valuation as of January 1st of the immediately preceding calendar year. Actuarially determined contributions in the January 1, 1987 through January 1, 2014 actuarial valuations had been based on the Aggregate Actuarial Cost Method. Effective with the January 1, 2015 actuarial valuation, actuarially determined contributions have been based on the Entry Age Normal Cost Method with thirty year, level dollar open amortization of the unfunded actuarial liability.

RETIREMENT BENEFITS:

Eligibility:

Age 50 and 12 years of service. For active members entering employment on and after January 1, 2015, age 52 and 12 years of service. For active members entering employment on and after August 15, 2016, Social Security Retirement Age less 10 years.

Benefits:

Retirement allowance equal to 2 1/2% of average compensation based on five highest consecutive years times creditable service. For members retiring after age 50 with over 12 years of service, benefit is 3 1/3% for each year of service over 12. For members with 30 or more years of service, benefit is 3 1/3% for each year of service.

Effective January 1, 2017, for currently active who entered employment prior to January 1, 2015 and future payments to previously retired and D.R.O.P. members, retirement allowance equal to 2 1/2% of average compensation based on five highest consecutive years times creditable service before the later of age 50 and completion of 12 years of service, plus 3 1/3% times creditable service after the later of age 50 and completion of 12 years of service.

EXHIBIT I FIREFIGHTERS' PENSION AND RELIEF FUND OF THE CITY OF NEW ORLEANS SUMMARY OF PLAN PROVISIONS [NEW FUND] (Continued)

Benefits (cont.):

For active members entering employment on and after January 1, 2015 and retiring after age 52 and 12 years of service, retirement allowance is equal to 2 3/4% of average compensation based on five highest consecutive years times creditable service. The 2 3/4% percentage has been amended to 2 1/2% for members entering employment on and after August 15, 2016.

Maximum Benefit payable is 100% of highest five year average compensation preceding retirement.

Minimum Benefit

Benefit of retirees and widows shall not be less than \$1,200 per month.

Cost-of-living: Board is authorized (by a two-thirds vote of the entire board) to provide annual increases to retirees and widows based on excess earnings in an amount not to exceed 3% of the original benefit. For retirees and widows age 65 and older, the board is authorized to provide an additional amount not to exceed 2% of the original benefit.

DISABILITY BENEFITS:

Eligibility:

- 1. Service-related physically and mentally permanently incapacitated for performance of duties as a member of the fire department. (certified by civil service physician and board).
- 2. Non-service related physically and mentally permanently incapacitated for performance of duties as a member of the fire department.

Benefit:

- 1. benefits are equal to the greater of two-thirds of monthly compensation or a regular retirement benefit if the member is eligible.

 If able to work, benefits are equal to the greater of one-half of monthly compensation or a regular retirement benefit if the member is so eligible.
- 2. members with 10 years of service or less receive 30% of average compensation during the last year of service immediately preceding disability; 40% of average compensation for members with more than 10 years but less that 15 years of service; and 50% of average compensation for members with 15 or more years of service.

DEATH BENEFITS:

Eligibility:

- 1. Death of an active member killed while performing duties as a firefighter,
- 2. Non-duty related death of active or former firefighter entitled to benefits.

Benefit:

- 1. Surviving widow receives 66 2/3% of salary at time of death. Each child under age 18 receives \$300 per month.
- 2. 50% of salary at the time of death. If eligible for retirement, widow shall receive an automatic Option 2 benefit.

Effective July 1, 1977, a death benefit of \$3,000 is paid to the beneficiary of the deceased active or retired firefighter.

EXHIBIT I FIREFIGHTERS' PENSION AND RELIEF FUND OF THE CITY OF NEW ORLEANS SUMMARY OF PLAN PROVISIONS [NEW FUND] (Continued)

SEPARATION BENEFIT:

Eligibility:

- 1. withdrawal from service with 12 years of service prior to age 50.
- 2. Separation of service.

Benefit:

- 1. Employee may allow contributions to remain on deposit and receive benefit at age 50.
- 2. refund of accumulated contributions.

DEFERRED RETIREMENT OPTION PLAN:

Any member who has twelve years of service and who is eligible for a service retirement allowance may participate in the DROP plan. Effective July 1, 2008, a member may participate in the DROP plan retroactively based on the pension calculated as of the retroactive date selected.

- 1) A member can only participant once, and only up to five years.
- 2) When a member joins the DROP, he stops contributing to and earning benefits in the system. Employer contributions also stop. His retirement benefit is paid into his DROP account.
- 3) Members of the DROP do not receive cost-of-living increases.
- 4) Upon termination of employment at the end of the specified period of DROP participation, the DROP account is paid out in a lump sum payment.
- 5) If at the end of a Member's period of DROP participation he does not terminate employment, payments into the DROP account shall cease and he shall resume active contributing membership in the system.
- 6) There are no payments made from the DROP account until employment is terminated. Effective for DROP participation commencing on and after January 1, 2016, after employment termination DROP account balances are placed in a separate liquid asset money market investment account. Alternatively, if irrevocably elected by the member, the DROP account may continue participation in the actual investment performance (positive and negative) earned by the fund after the completion of DROP participation based on the five-year rolling average of the composite rate of return of the pension fund, less an administrative fee as determined by the board.
- 7) An additional benefit is paid based on the additional service, using the method of computation for his original benefit if the additional service is less than 60 months. If the additional service is 60 months or more, the average compensation is based on the additional service period.

EXHIBIT II

FIREFIGHTERS' PENSION AND RELIEF FUND FOR THE CITY OF NEW ORLEANS STATEMENT OF ACTUARIAL BASIS FOR FUNDING PURPOSES

[NEW FUND]

Actuarial Funding Method:

Cost Method: Individual Entry Age Normal Cost Method with

level dollar, open 30 year amortization of unfunded actuarial liability (effective January 1,

2015).

Asset Valuation Method: Actual Market Value (effective January 1, 2015).

Actuarial Assumptions

Interest: 7.5% compounded annually.

Mortality: 1994 Uninsured Pensioner Table for males and

females for active and retired except disabled; disabled mortality is the same with ages set

forward five years.

5% of all deaths of active members are assumed to be service related. 50% of deaths of service

retirees and 75% of deaths of disability retirees

are assumed to be service related.

Turnover: The Table of withdrawal rates is included later in

this Exhibit. Additional turnover rates for active members with less than five years of service were eliminated effective with the January 1, 2015

actuarial valuation.

Salary Increases: 5.0% compounded annually.

Retirement: Employees are assumed to retire after the earliest

of: first, attainment of age 50 and 30 years of service; second, the later of age 55 and completion of 25 years of service; third, attainment of age 60 and completion of 12 years

of service.

the bi-supplier in topical \$500 to figure.

STATEMENT OF ACTUARIAL BASIS FOR FUNDING PURPOSES

Actuarial Assumptions (Continued)

Disability Incidence: The Table of disability incidence rates is included

later in this exhibit.

80% of disabilities are assumed to be service

related.

Marriage Statistics: 80% of members are assumed to be married.

Cost of Living Benefits: Only cost of living increases previously granted by

the Board have been included in the valuation and it has not been assumed that there will be any future increases. Any such increases will be included in the valuation if, as, and when granted

I --- -- innocatolination or --

by the Board.

Vesting Electing Percentage: 75% of vested terminations elect deferred benefits

in lieu of contribution refunds.

Kill Land

¥

FIREFIGHTERS' PENSION AND RELIEF FUND JANUARY 1, 2018 ACTUARIAL VALUATION

ASSUMED RATES OF MORTALITY, WITHDRAWAL AND DISABILITY INCIDENCE BY AGE AND GENDER

MORTALITY

	MORTALITY			WWW. R.C. D. C.F.
2000000				DISABILITY
AGE	MALE	FEMALE	WITHDRAWAL	INCIDENCE
15	.000371	.000233	.010000	.003150
16	.000421	.000261	.010000	.003150
17	.000463	.000281	.010000	.003150
18	.000495	.000293	.010000	.003150
19	.000521	.000301	.010000	.003150
20	.000545	.000305	.010000	.003150
21	.000570	.000308	.010000	.003150
22	.000598	.000311	.010000	.003150
23	.000633	.000313	.010000	.003150
24	.000671	.000313	.010000	.003150
25	.00071	.000313	.010000	.003150
26	.000711	.000315	.010000	.003150
27	.000743	.000316		
28	.000782		.010000	.003150
29	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.000338	.010000	.003270
	.000838	.000356	.010000	.003450
30	.000862	.000377	.010000	.003690
31	.000883	.000401	.009700	.003990
32	.000902	.000427	.009300	.004350
33	.000912	.000454	.009000	.004740
34	.000913	.000482	.008700	.005190
35	.000915	.000514	.008300	.005670
36	.000927	.000550	.008000	.006180
37	.000958	.000593	.007700	.006750
38	.001010	.000643	.007300	.007500
39	.001075	.000701	.007300	.012500
40	.001153	.000763	.006700	.025000
41	.001243	.000826	.006000	.025000
42	.001346	.000888	.005300	.025000
43	.001454	.000943	.004700	.025000
44	.001568	.000992	.004000	.025000
45	.001697	.001046	.003300	.025000
46	.001852	.001111	.003300	-025000
47	:002042	.001196	:003300	.025000
48	.002260	.001297	.003300	.025000
49	.002501	.001408	.003300	.025000
50	.002773	.001536	.003300	.037500
51	.003088	.001686	.003300	.037500
52	.003455	.001864	.003300	.037500
53	.003854	.002051	.003300	.037500
54	.004278	.002241	.003300	.037500
55	.004758	.002466	.003300	.037500
56	.005322	.002755	.003300	.037500
57	.006001	.003139	.003300	.037500
58	.006774	.003612	.003300	.037500
59	.007623	.004154	.003300	.037500
60	.008576	.004773	.003300	.037500
61	.009663	.005476	.003300	.037500
62	.010911	.006271	.003300	.037500
63	.012335	.007179	.003300	.037500
64	.013914	.008194	.003300	.037500
65	.015629	.009286	.003300	.037500
	- 12 HOW WO.	0000W000	-00-300	4-10-0
	000000	000213	. מתוחתם	

FIREFIGHTERS' PENSION AND RELIEF FUND JANUARY 1, 2018 ACTUARIAL VALUATION

ASSUMED RATES OF MORTALITY, WITHDRAWAL AND DISABILITY INCIDENCE BY AGE AND GENDER

M	- 77	1	 	

רכדיםסח

			MORTALITY	
DISABILITY INCIDENCE	WITHDRAWAL	FEMALE	MALE	AGE
.037500	0.000000	.010423	.017462	66
.037500	0.000000	.011574	.019391	67
.037500	0.000000	.012648	.021354	68
.037500	0.000000	.013665	.023364	69
.037500	0.000000	.014763	.025516	70
.037500	0.000000	.016079	.027905	71
.037500	0.000000	.017748	.030625	72
.037500	0.000000	.019724	.033549	73
.037500	0.000000	.021915	.036614	74
.037500	0.000000	.024393	.040012	75
.037500	0.000000	.027231	.043933	76
.037500	0.000000	.030501	.048570	77
.037500	0.000000	.034115	.053991	78
.037500	0.000000	.038024	.060066	79
.037500	0.000000	.042361	.066696	80
.037500	0.000000	.047260	.073780	81
.037500	0.000000	.052853	.081217	82
.037500	0.000000	.058986	.088721	83
.037500	0.000000	.065569	.096358	84
.037500	0.000000	.072836	.104559	85
.037500	0.000000	.081018	.113755	86
.037500	0.000000	.090348	.124377	87
.037500	0.000000	.100882	.136537	88
.037500	0.000000	.112467	.149949	89
.037500	0.000000	.125016	.164442	90
.037500	0.000000	.138442	.179849	91
.037500	0.000000	.152660	.196001	92
.037500	0.000000	.167668	.213325	93
.037500	0.000000	.183524	.231936	94
.037500	0.000000	.200229	.251189	95
.037500	0.000000	.217783	.270441	96
.037500	0.000000	.236188	.289048	97
.037500	0.000000	.255605	.306750	98
.037500	0.000000	.276035	.323976	99
.037500	0.000000	.297233	.341116	100

Accede

o odoodo

EXHIBIT IV

ACCOUNTING INFORMATION PURSUANT TO GASB STATEMENT NO. 50 Funded Status: Funding Progress and Funded Ratio

January 1, 2018 Actuarial Valuation - New Fund

This section is included to provide information required by the Governmental Accounting Standards Board Statement Number 25 and is provided for historical continuity and consistency. GASB Statements 25 and 27 have been replaced by GASB Statements 67 and 68. These two statements have made extensive and fundamental changes in the nature of the financial disclosure requirements and have effectively removed the actual funding aspects of the plan from any direct involvement. The effective date of GASB 67 (with respect to the plan itself) is the first Plan Year beginning after June 15, 2013 (namely, the Plan Year beginning January 1, 2014). The effective date of GASB 68 (with respect to the City of New Orleans as sponsoring employer) is the first Fiscal Year beginning after June 15, 2014 (namely, the Fiscal Year beginning January 1, 2015). The actuarial information for financial disclosure as required by these GASB Statements will be presented in a separate report.

"Funding Progress" is the ratio of the actuarial Unfunded Accrued Liability (UAL) under the Entry Age Normal Cost Method to the active valuation annual payroll. The UAL shown below has been determined on that basis.

The "Funded Ratio" is defined as the ratio of the actuarial value of assets to the "Projected Benefit Obligation", or PBO, within the meaning of Financial Accounting Standards Board Statement No. 87 and, in turn, the GASB Statement No. 5.

	NDING PROGRESS (RATIO OF UAL TO VALUA	12/31/2016	12/31/2017
Inte	rest Assumption	7.50%	7.50%
[1]	A. Entry Age Actuarial Accrued Liability (AAL) B. Actuarial Value of Assets C. Unfunded Accrued Liability (UAL): [1A] - [1B]	\$ 414,297,054 42,997,738 \$ 371,299,936	\$ 416,164,859 \$ 42,194,604 \$ 373,970,255
[2]	Valuation Annual Payroll	27,148,936	27,762,479
[3]	Ratio: [1] divided by [2]	1,367.6%	1,347.0%
FUN	NDED RATIO:		
[1]	Projected Benefit Obligation (PBO) Inactive Plan Participants Active Plan Participants	\$ 289,441,501 104,805,451	\$ 285,992,032 109,599,320
	Total PBO	\$ 394,246,952	\$ 395,591,352
[2]	Actuarial Value of Assets [Table 2]	42,997,738	42,194,604
[3]	Funded Ratio: [2] divided by [1]	10.9%	10.7%

And walter to shooth

EXHIBIT III

ACTIVE AND INACTIVE PARTICIPANT PROFILES

				FIRE	FIGHTERS 1	PENSION 2018 ACTIV JANUARY	FIREFIGHTERS' PENSION AND RELIEF FUND FOR THE CITY 1/1/2018 ACTIVE PARTICIPANT AGE VS SERVICE JANUARY 1, 2018 ACTUARIAL VALUATION NEW FUND	ELIEF FUND FO TICIPANT AGE 18 ACTUARIAL NEW FUND	VS SERVICE VALUATION	TY OF NEW	OF NEW ORLEANS GRID			
					*	AL	ALL ACTIVE PARTICIPANTS	PARTICIPA	NITS	1				
AGE	0-4	6-5	9	10-14	15-19	ARS OF SERVICE 20-24 25-	RVICE 25-29	30-34	35-39	+0+	TOTAL	TOTAL ANNUAL SALARIES	AVERAGE	
0-24	17	0		0	0	0	0	0	0	0	11	509,264.59	29,956.74	
5-29	31	14		0	0	0	0	0	0	0	45	1,546,850.84	34,374.46	
95-0	23	59	3	25	1	0	0	0	0	0	108	4,767,030.35	44,139.17	
5-39	4	42		56	18	Ī	0	0	0	0	9.1	4,691,661.08	51,556.72	
55-0	0	13	3	52	3.5	6	7	0	0	0	86	4,966,932.10	57,755.02	
64-5	0	10	0	14	54	.11	10	2	0	0	80	5,033,723.91	62,921.55	
95-0	0	7	(0.0)	è	13	15	17	2	0	0	58	4,114,851.83	70,945.72	
65-5	0	0	0	0	5	7	6	3	4	0	25	1,906,264.80	76,250.59	
79-0	0	0		0	ī.	0	2	0	0	0	ĸ	225,899.00	75,299.67	
1	*******	1		:	1		*****					***************************************	***************************************	
	75	145	Š	16	26	64	42	13	٠	0	513	27,762,478.50	54,117.89	

		AVERAGE L ANNUAL T BENEFIT	08 27,304.68	84 53,267.32	04 37,876.62	24 40,950.33	64 43,097.59	20 49,153.71	32 47,744.72	
		TOTAL ANNUAL BENEFIT	163,828.08	1,811,088.84	3,484,649.04	5,692,095.24	2,887,538.64	1,327,150.20	286,468.32	***************************************
ORLEANS	ORMULA	TOTAL	9	34	92	139	29	27	9	******
PENSION AND RELIEF FUND FOR THE CITY OF NEW ORLEANS 1/1/2018 INACTIVE PARTICIPANT PROFILE JANUARY 1, 2018 ACTUARIAL VALUATION NEW FUND	HO RETIREES CLASSIFIED AS DISABLED AS OF VALUATION DATE:	+04	0	0	0	0	0	0	0	
PENSION AND RELIEF FUND FOR THE CI /1/2018 INACTIVE PARTICIPANT PROFIL JANUARY 1, 2018 ACTUARIAL VALUATION NEW FUND	TIREMENT	35-39	0	0	0	0	0	0	0	
RELIEF FUND I IVE PARTICIP/ 18 ACTUARIAL NEW FUND	SERVICE RE	30-34	0	0	0	0	0	0	÷	
AND RELINE INACTIVE 1, 2018 /	ED UNDER	25-29	0	0	0	0	0	4	1	****
S' PENSION 1/1/2018 JANUARY	-	VCE RETIREMENT 20-24 25-	0	0	0	0	10	7	0	******
FIREFIGHTERS	RETIREES W	YEARS SIN	0	0	0	19	27	13	М	******
I	LIN	10-14	0	0	15	09	11	M	0	
		6-5	0	6	77	67	12	0	•	į
		7-0	9	25	33	11	-	0	0	
		AGE	95-0	69-9	79-0	69-5	72-0	62-5	78-0	

			E	FIREFIGHTERS!	1/1/2018 JANUARY		AND RELIEF FUND FOR INACTIVE PARTICIPANT 1, 2018 ACTUARIAL VAL	FOR THE CI ANT PROFIL VALUATION	1TY OF NE	THE CITY OF NEW ORLEANS PROFILE. UATION			
		•	RE	RETIREES WHO	~	ETIRED UNDER DISABILITY RETIREMENT BENEFIT FORMULA	SABILITY	RETIREMENT	BENEFIT	FORMULA			
AGE	7-0	6-5	10-14	YEARS SINCE 15-19	ICE RETIREMENT 20-24 25	EMENT 25-29	30-34	35-39	+07	TOTAL	TOTAL ANNUAL BENEFIT	AVERAGE ANNUAL BENEFIT	
5-39	25	0	2	0	0	0	0	0	0	7	117,397.32	16,771.05	
55-0	Ð	25	2	Ŧ	0	0	0	0	0	6	162,788.28	18,087.59	
67-5	'n	7	6	9	0	0	0	0	0	54	394,485.84	16,436.91	
95-0	2	7	12	9	1	0	-	0	0	30	591,105.84	19,703.53	
2-59	5	2	0	10	м	2	0	0	0	22	675,496.20	30,704.37	
79-0	7	0	M	19	4	м	5	0	0	4.1	1,133,633.40	27,649.60	
69-5	2	0	0	6	80	18	11	8	2	58	1,619,279.04	27,918.60	
72-0	0	0	0	0	1	22	6	3	2	99	1,297,786.44	28,212.75	
2-79	0	0	0	0	0	2	-	4	M	13	307,456.68	23,650.51	
*	:		1	:							***************************************	.,,,,,,,,,,	
	28	18	28	51	23	20	27	15	10	250	6,299,429.04	25,197.72	

FIREFIGHTERS' PENSION AND RELIEF FUND FOR THE CITY OF NEW ORLEANS 1/1/2018 INACTIVE PARTICIPANT PROFILE JANUARY 1, 2018 ACTUARIAL VALUATION NEW FUND	SURVIVORS AND BENEFICIARIES	TOTAL AVERAGE ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL S-9 10-14 15-19 20-24 25-29 30-34 35-39 40+ TOTAL BENEFIT BENEFIT	1 1 0 0 0 0 0 0 8 28,800.00 3,600.00	1 0 1 0 0 0 0 4 38,373.72 9,593.43	1 0 0 0 0 0 0 39,263.88 19,631.94	1 1 = 0 0 2 0 0 4 52,444.32 13,111.08	0 1 0 0 0 0 0 1 33,496.32 33,496.32	1 2 1 1 4,765.00 24,966.43	2 1 2 0 1 1 0 0 0 9 155,639.40 17,293.27	4 4 4 5 0 0 2 0 25 522,092.40 20,883.70	6 4 3 4 3 2 0 1 34 755,341.20 22,215.92	2 2 3 2 0 0 0 0 19 333,039.00 17,528.37	2 2 1 0 0 0 1 0 8 145,281.72 18,160.22	0 0 0 1 0 0 0 1 25,746.36 25,746.36		
FIREFIGHTER	•	- YEARS	1 0	0 1	0 0	1 0	1 0	2	1 = 0	7 7	4 3					
		6-5 7-0	6 1	2 1	1.	0	0 0	2 1	4 2	8	11 6	10 2	2 2	0 0		
		AGE	61-0	0-34	5-39	55-0	2-49	95-0	2-59	79-0	69-5	92-0	62-5	9-8-0	1	

		AVERAGE ANNUAL BENEFIT	*********	12,947.28 12,947.28	13,654.92 13,654.92		26,602.20 13,301.10
		TOTAL ANNUAL BENEFIT		12,947.28	13,654.92	The second of the second second of the secon	26,602.20
ORLEANS		TOTAL		+	1		2
TY OF NEW		+0+		0	0		0
OR THE CI		35-39		0	0		0 0 0
FF FUND FPARTICIPA CTUARIAL	ED VESTED	30-34		0	0		0
PENSION AND RELIEF FUND FOR THE CITY OF NEW ORLEANS 1/1/2018 INACTIVE PARTICIPANT PROFILE JANUARY 1, 2018 ACTUARIAL VALUATION NEW FUND	TERMINATED VESTED	20-24 25-29 30-34 35-39 40+		0	0		0
	*******	SE RETIRES 20-24	******	0	0	:	0
FIREFIGHTERS.		0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39		0	0		0
RIA		10-14 15-19		1	7	-	2
		5-9	*******	0	0	1	0
		7-0		0	0		0
		AGE		67-55	55-59	:	

NET EXTERNAL CASH ELOU	FOR YEAR	1,568,648	955,096	378.591	485,686	-692,116	287,368	-573,436	-2,219,250	-5,400,446	-5,370,803	-4,146,846	-2,095,200	-4,029,353	-5,814,891	-7,037,757	-7,262,810	-11,355,891	-10,258,005	-11,526,150	-16,569,205	-18,515,952	-10,802,377	-5,751,640	
PERFORMANCE TRANSFERS	EAR	00	00	00	0	0	0	22,411	77,850	885,209	614,570	0 22	115,635	0	0	474,174	114,664	0	0	0	0	13,702	27,390	251,070	
TIRETIGHTENS FENSION AND RELIEF FOND FOR THE CITY OF NEW URLEANS ESTIMATED MARKET VALUE INVESTMENT PERFORMANCE BY CALENDAR YEAR TRANSFERS TOTAL BENEFIT ADMIN. EXP. TRANSFERS NET EXTERNA TO DAYMENTS DAIN FOD OUT	YEAR	461,358	461,358	762.243	844,397	694,170	105,923	154,421	210,208	179,682	425,740	372,959	267, 735		894,709	857,876	862,450	904,888	664,812	684,779	1,315,010	934,816	822,056	1,272,510	
MATED MARKET VI BY CA TOTAL BENEFIT	FOR YEAR	1,757,302	2,220,269	2,695,511	2,905,124	3,311,215	3,883,545	4,245,951	5,379,188	8,619,349	8,281,637	8,722,403	11 407 122	12,778,332	15,289,598	15,709,765	17,907,434	22,755,378	22,423,348	24,324,080	28,825,866	31,312,865	40,732,649	39,663,316	
ESTIN ESTIN TRANSFERS	FOR YEAR	00	0 0	00	171,213	0	172,480	21,212	45,406	442,875	608'99	98,744	0.0	19,248	76,137	85,453	14,894	76,512	25,746	0	33, 190	40,015	0 0	34,007	
EMPLOYEE	FOR YEAR	939,725	1,001,139	892,937	1,003,994	880,460	586,749	824,895	918,554	875,776	870,889	879,824	1 010 807	956,839	928,295	1,035,535	1,128,484	1,244,825	1,372,954	1,496,021	1,379,957	1,392,726	2,576,572	3,011,193	
EMPLOYER	FOR YEAR	2,847,583	2,635,584	2,943,408	3,060,000	2,432,809	3,156,371	3,003,240	2,484,036	3,408,018	3,013,446	3,969,948	8 054 342	8,086,423	9,364,984	8,883,070	10,478,360	10,983,038	.11,431,455	11,986,688	12, 158, 524	12,312,710	30,579,281	32,278,593	
OH THE STATE OF TH	MARKET VALUE	73,539,025	77,634,667	103.308.388	114,891,956	113,888,819	134,483,397	151,980,282	176,898,322	202,320,314	193,552,590	181,377,427	184, 103, 191	201,013,160	211,691,854	216,049,557	233,872,821	160,001,205	158,780,489	160,273,601	158,486,068	143,536,118	65,377,497	50,267,773	
P. 26	ENDING	12/31/90	12/31/91	12/31/93	12/31/94	12/31/95	12/31/96	12/31/97	12/31/98	12/31/00	12/31/01	12/31/02	12/31/05	12/31/05	12/31/06	12/31/07	12/31/08	12/31/09	12/31/10	12/31/11	12/31/12	12/51/13	12/31/15	12/31/16 71/18/21 Co	•

MARKET VALUMENTO INV. PERFORMANCE FOR YEAR 13.3508% 3.4000%

ENDING MARKET VALUE

MARKET VALUE INV. INCOME FOR YEAR 73,539,025

8,559,942

19.2119% 10.0357% 10.8263% -1.2931% 18.7477%

93,596,593 103,308,388 114,891,956 113,888,819 134,483,397

15,006,830 9,408,259 11,204,977 -1,488,823 21,286,694 12.7831% 16.8046% 8.5980% 8.0124% -1.6868%

151,980,282 176,898,322 189,793,427 202,320,314 193,552,590

17,209,517 25,491,476 15,114,355 15,103,703 -3,367,278 -3.5650% -5.3805% 14.3092% 9.5976% 6.6354%

181,377,427 167,583,191 186,103,196 201,013,160 210,188,139

-6,804,360 -9,647,390 23,615,273 17,726,263 13,204,332 6.3029% 1.0781% -29.9708% -6.9762% -10.9271%

158,486,068 143,536,118 84,775,908 62,645,277 50,267,773

9,738,617 1,619,255 -40,244,278 -5,328,054 -6,683,482 -3.2039%

42, 194, 604

-1,518,395

116,911,742

-142,204,864

36,152,392

270,457,784

53

of Years:

No.

4.8723% 11.6976% -28.9300% 6.5675% 7.6479%

216,049,557 233,872,821 160,001,205 158,780,489 160,273,601

10,172,594 24,861,021 -66,608,806 10,135,175 11,751,117

FIREFIGHTERS' PENSION AND RELIEF FUND FOR THE CITY OF NEW ORLEANS ESTIMATED INVESTMENT PERFORMANCE BY MARKET VALUE AND ACTUARIAL VALUE OF ASSETS BY CALENDAR YEAR

BEGINNING MARKET VALUE	ENDING MARKET VALUE	MARKET VALUE INV. PERF. FOR YEAR	NET EXTERNAL CASH FLOW DURING YEAR	BEGINNING ACTUARIAL VALUE OF ASSETS	ACTUARIAL ACTUARIAL VALUE OF ASSETS	ASSETS INV. PERF. FOR YR
63,251,791	73,539,025	13.3508%	1,727,292	64,933,327	71,595,392	7.5000%
77,634,667 93,596,593 103,308,388 114,891,956 113,888,819	93,596,593 103,308,388 114,891,956 113,888,819 134,483,397	19.2119% 10.0357% 10.8263% -1.2931% 18.7477%	955, 096 303, 536 378, 591 485, 686 -692, 116	77,617,769 89,953,752 98,275,923 111,046,572 113,763,854	89,953,752 98,275,923 111,046,572 113,763,854 126,046,831	14.5731% 8.8992% 12.5852% 2.0052% 11.4401%
134,483,397 151,980,282 176,898,322 189,793,427 202,320,314	1,980,282 6,898,322 9,793,427 2,320,314 3,552,590	12.7831% 16.8046% 8.5980% 8.0124% -1.6868%	287,368 -573,436 -2,219,250 -2,576,816 -5,400,446	126,046,831 143,202,836 165,130,539 177,000,489 189,850,815	143,202,836 165,130,539 177,000,489 189,850,815 190,974,538	13.3676% 15.7443% 8.5899% 8.7798% 3.4861%
193,552,590 181,377,427 167,583,191 186,103,196 201,013,160	,377,427 ,583,191 ,103,196 ,013,160	-3.5650% -5.3805% 14.3092% 9.5976% 6.6354%	-5,370,803 -4,146,846 -5,095,268 -2,816,299 -4,029,353	190,974,538 193,426,182 180,377,277 189,292,029 193,493,695	193,426,182 180,377,277 189,292,029 193,493,695 196,533,991	4.1545% -4.6522% 7.8783% 3.7353% 3.6921%
211, 691, 854 216, 049, 557 233, 872, 821 160, 001, 205 158, 780, 489	216,049,557 233,872,821 160,001,205 158,780,489 160,273,601	4.8723% 11.6976% -28.9300% 6.5675% 7.6479%	-5,814,891 -7,037,757 -7,262,810 -11,355,891	196,533,991 219,788,356 229,316,592 212,727,368 189,802,659	219,788,356 229,316,592 212,727,368 189,802,659 160,645,159	15.0131% 7.6599% -4.1325% -5.5875% -10.2340%
160,273,601 158,486,068 143,536,118 84,775,908 65,377,497	158,486,068 143,536,118 84,775,908 62,645,277 50,267,773	6.3029% 1.0781% -29.9708% -6.9762% -10.9271%	-11,526,150 -16,569,205 -18,515,932 -16,802,577 -8,426,242	160,645,159 159,645,451 150,639,776 121,788,159 62,645,277	159,645,451 150,639,776 121,788,159 62,645,277 50,267,773	6.7964% 4.9970% -7.3105% -37.3415% -6.7621%
50,267,773	42,997,738 42,194,604	-3.2039% -11.3672%	-5,751,640	50,267,773 42,997,738	42,997,738 42,194,604	-3.2039%

	ESTIMATE	D INVESTMENT PERF BY CALENDAR YEAR	ORMANCE	ARKET V		
NET EXTERNAL	MARKET VALU	E	INVEST	PERFORMA	NCE	
	RYEAR	MARKET VALUE	FOR YEAR	CUMULATIVE	AVERAGE	YEAR
1,727,292	8,559,942	73,539,025	13.3508%	13.35%	13.35%	-0
3,539,025 1,568,64	,526,99	1,654,66	. 4000	02.	. 40	4
7,634,667 955,09	,006,83	93,596,59	9.2119	9.72	62.	ю.
3,596,593 303,536	9,408,25	03,308,38	0.0357	3.74	1.35	41
3,308,388 378,591	,204,97	14,891,95	0.8263	0.39	1.25	0 4
13,888,819 -692,116	-	134,483,397	18.7477%	99.72%	10.39%	~
4,483,397 287,368	7,209,51	51,980,28	.7831	25	10.68%	60
1,980,282 -573,436	5,491,47	76,898,32	6.8046	63.10	1.35	
6,898,322 -2,219,250	5,114,35	89, 793, 42	.5980	85.72	1.07	
576,816	15, 103, 703	202,320,314	8.0124%	.61	0.79	
2,320,314 -5,400,446	3,367,27	93,552,59	. 6868	03.41	.69	
3,552,590 -5,370,803	,804,36	81,377,42	3.5650	2.59	.61	1
1,377,427 -4,146,846	9,647,39	67,583,19	.3805	6.85	. 54	14
7 102 104 5 105 200	3,615,27	86, 103, 19	2605.4	40.40	8 08%	
01,013,160 -4,029,353	13,204,332	210,188,139	6.6354%		00	-
1,691,854 -5,814,891	0,172,59	216,049,55	4.87	87.87	.82	
6,049,557 -7,037,757	4,861,02	233,872,82	69.	33.24	.02	
3,872,821 -7,262,810	6,608,80	160,001,20	8.93	04.70	.78	
58,780,489 -10,258,005	10,135,175	160,273,601	7.6479%	253.22%	5.90%	22
0.273.601 -11.526.150	9.738.61	8,486,06	.3029	75.48	.92	23
8,486,068 -16,569,205	1,619,25	3,536,11	1.0781	79.53	.71	2
3,536,118 -18,515,932	0,244,27	4,775,90	.9708	65.78	66.	25
16,802,577	6,683,482	50,267,773	-10.9271%	120.22%	2.97%	27
50,267,773 -5,751,640 42,997,738 4,330,652	-1,518,395	42,997,738	-3.2039%	113.17% 88.94%	2.74%	28

Number of Years Included: 29

CERTIFICATION

The foregoing report presents fairly the actuarial position of the Firefighters' Pension and Relief Fund for the City of New Orleans [New Fund] as of January 1, 2018 in accordance with generally accepted actuarial principles, applied on a basis consistent with that of the preceding valuation, except where noted. In our opinion, each of the assumptions used in preparing the liabilities and estimated costs is reasonably related to the experience of the plan and to reasonable expectations and represents our best estimate of anticipated experience under the plan.

CONEFRY & COMPANY, L.L.C.

The mount of the open to the state of the state of

Michael A. Conefry, FCA, ASALMAAA Enrollment Number 17-1235

Belle Chasse, Louisiana June, 2018

V201712N.FIR