ACTUARIAL VALUATION REPORT

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

Annual Actuarial Valuation as of January 1, 2017

CONEFRY & COMPANY, LLC

ACTUARIAL AND EMPLOYEE BENEFIT CONSULTING NEW ORLEANS, LOUISIANA

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, 2017. 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.

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

SUMMARY

I. FINANCIAL AND ACTUARIAL STATUS as of January 1, 2017 Market Value of Assets \$ 42,997,738 Page 4 Actuarial Value of Assets \$ 42.997.738 Page 5 EMPLOYER AND EMPLOYEE CONTRIBUTIONS for the II. Plan Year Beginning January 1, 2017 - New Fund Total Plan Contribution (As % of Payroll) \$ 36,354,604 (133.908%) Page 7 Employee Plan Contribution (As % of Payroll) \$ 2,714,894 (10.000%) Page 7 Employer Plan Contribution Including Expenses (As % of Payroll) \$ 33,639,710 (123.908%) Page 7 APPENDIX SUMMARY OF PLAN PROVISIONS Exhibit I STATEMENT OF ACTUARIAL BASIS FOR FUNDING PURPOSES Exhibit II ACTIVE AND INACTIVE PARTICIPANT PROFILES Exhibit III ACCOUNTING INFORMATION AND FUNDING PROGRESS Exhibit IV

CERTIFICATION

FINANCIAL AND ACTUARIAL STATUS as of January 1, 2017 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, 2016 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, 2016</u> <u>New Fund</u>

CURRENT ASSETS

	and de the second		and a second		
	Cash in Banks	\$	1,076,055		
	Accrued investment income		0		
	Receivables	<u> </u>	-5,040		
(1)	Total Current Assets			\$	1,071,015
IN	VESTMENTS				
	Cash equivalents	\$	10,993,951		
	Bonds		252,624		
	Stock		2,839		
	Hedge Funds		909,028		
	Notes receivable		1,777,933		
	Investment in partnerships, LLC, etc.		24,947,423		
	Real Estate		3,201,000		
(2)	Total Investments			\$	42,084,798
CL	JRRENT LIABILITIES				
	Accounts payable	\$	158,075		
	Due to Old system		0		
	Notes Payable		0		
	Accrued Interest Payable	-	158,075		
(3)	Total Current Liabilities			<u>\$</u>	158,075
NE	T ASSETS AVAILABLE FOR PENSION	BENEI	FITS:		
(1)				\$	42,997,738

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

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 2Actuarial Value of AssetsAs of December 31, 2016New Fund

Current Assets	\$ 1,071,015
Investments	42,084,798
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>\$ 42,997,738</u>

EMPLOYER CONTRIBUTIONS

for the Plan Year Beginning January 1, 2017

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.

<u>Table 3</u> <u>Entry Age Normal Cost for Plan Year</u> <u>Beginning January 1, 2017</u>

(1)	Total Entry Age Normal Cost of all active participants, assumed payable monthly	\$ 5,917,436
(2)	Current annual payroll of active participants *	\$ 27,148,936
(3)	Composite Entry Age Normal Cost Percentage: (1) divided by (2)	21.796%

* There are 505 active participants.

				able 4		
Entry	Age	Normal	Cost	Unfunded	Actuarial	Liability
-				nuary 1, 20		

(1)	 (b) Survivor Benefits (c) Disability Benefits (d) Vesting Benefit (e) Refunds of Employee Contributions 	\$ 124,751,365 5,997,455 41,944,241 1,973,448 <u>191,239</u> \$ 174,857,748	
(2)	 Actuarial Present Value of Expected Benefits to Inactive Plan Participants (Including D.R.O.P.) (a) Service Retirement * (b) Disability Retirement (c) Survivors and Widows (d) Terminated Vested (e) P.L.O.P. Account Balances (f) D.R.O.P. Future Benefits Total Inactive 	128,511,013 47,911,243 22,775,579 264,577 17,722,834 29,198,701 43,057,554 \$ 289,441,501	
(3)	Grand Total Active and Inactive: $(1) + (2)$		\$ 464,299,249
(4)	Actuarial Present Value of Future Employer Normal Cost Contributions:		50,002,195
(5)	Entry Age Normal Cost Accrued Actuarial Liability as of January 1, 2017: (3) - (4)		414,297,054
(6)	Actuarial Value of Assets (from Table 2)		42,997,738
(7)	Unfunded Entry Age Normal Cost Actuarial Liability as of January 1, 2017: (5) - (6)	l	371,299,316

Includes 327 retirees (of a total of 380 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, 2017 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 \$371,299,316, 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, 2046 at 7.50% annual interest is \$30,237,168.

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

Table 5Total Required Contribution for thePlan Year Beginning January 1, 2017

(1)	Normal Cost (From Table 3)	5,917,436		
(2)	Expense Assumption Cost	200,000		
(3)	Net Annual charge Required for 30 Year Amortization of EAN Unfunded Liability assumed payable monthly (See Above)	30,237,168		
(4)	Total Plan Contribution assumed payable monthly: $(1) + (2) + (3)$	\$ 36,354,604	(133.908%)	*
(5)	Weighted Average of Expected Employee Contributions (Based on Present Value) as of January 1, 2017	\$ 2,714,894	(10.000%)	*
(6)	Employer Contribution assumed payable monthly: (4) - (5)	\$ 33,639,710	(123.908%)	*
*	Barren I	 		

* Expressed as a percentage of annual participant payroll of \$27,148,936.

APPENDIX

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 $2 \frac{1}{2\%}$ 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 $3 \frac{1}{3\%}$ for each year of service over 12. For members with 30 or more years of service, benefit is $3 \frac{1}{3\%}$ 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. For members with 30 or more years of service, benefit is 2 1/2% for each year of service up to 12 years plus 3 1/3% for each year of service in excess of 12 years.

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.

<u>Cost-of-living</u>: 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:

Actuarial Assumptions

Interest:

Mortality:

Turnover:

Salary Increases:

Retirement:

Actual Market Value (effective January 1, 2015).

7.5% compounded annually.

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.

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.

5.0% compounded annually.

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.

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 by the Board.
Vesting Electing Percentage:	75% of vested terminations elect deferred benefits in lieu of contribution refunds.

FIREFIGHTERS' PENSION AND RELIEF FUND JANUARY 1, 2017 ACTUARIAL VALUATION

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

			MORTALITY	
DISABILITY INCIDENCE	WITHDRAWAL	FEMALE	MALE	AGE
THOTOFINGE	WIINDKAWAD	PENALIS	MALIS	AGE
.003150	.010000	.000233	.000371	15
.003150	.010000	.000261	.000421	16
.003150	.010000	.000281	.000463	17
.003150	.010000	.000293	.000495	18
.003150	.010000	.000301	.000521	19
.003150	.010000	.000305	.000545	20
.003150	.010000	.000308	.000570	21
		.000311	.000598	22
.003150	.010000			23
.003150	.010000	.000313	.000633	
.003150	.010000	.000313	.000671	24
.003150	.010000	.000313	.000711	25
.003150	.010000	.000316	.000749	26
.003150	.010000	.000324	.000782	27
.003270	.010000	.000338	.000811	28
.003450	.010000	.000356	.000838	29
.003690	.010000	.000377	.000862	30
.003990	.009700	.000401	.000883	31
.004350	.009300	.000427	.000902	32
.004740	.009000	.000454	.000912	33
.005190	.008700	.000482	.000913	34
.005670	.008300	.000514	.000915	35
.006180	.008000	.000550	.000927	36
	.007700	.000593	.000958	37
.006750		.000643	.001010	38
.007500	.007300		.001075	39
.012500	.007300	.000701	.001075	40
.025000	.006700	.000763		41
.025000	.006000	.000826	.001243	
.025000	.005300	.000888	.001346	42
.025000	.004700	.000943	.001454	43
.025000	.004000	.000992	.001568	44
.025000	.003300	.001046	.001697	45
.025000	.003300	.001111	.001852	46
.025000	.003300	.001196	.002042	47
.025000	.003300	.001297	.002260	48
.025000	.003300	.001408	.002501	49
.037500	.003300	.001536	.002773	50
.037500	.003300	.001686	.003088	51
.037500	.003300	.001864	.003455	52
.037500	.003300	.002051	.003854	53
.037500	.003300	.002241	.004278	54
.037500	.003300	.002466	.004758	55
.037500	.003300	.002755	.005322	56
.037500	.003300	.003139	.006001	57
	.003300	.003612	.006774	58
.037500		.004154	.007623	59
.037500	.003300		.008576	60
.037500	.003300	.004773	.009663	61
.037500	.003300	.005476		62
.037500	.003300	.006271	.010911	63
.037500	.003300	.007179	.012335	
.037500	.003300	.008194	.013914	64
	.003300	.009286	.015629	65

FIREFIGHTERS' PENSION AND RELIEF FUND JANUARY 1, 2017 ACTUARIAL VALUATION

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

DISABILITY WAL INCIDENCE				
WALL TNCTDENCE	I I ANTICIPATION AND IN A MARK IN			201
	WITHDRAWAL	FEMALE	MALE	AGE
.037500	0.000000	.010423	.017462	66
.037500	0.000000	.011574	.019391	67
	0.000000	.012648	.021354	68
	0.000000	.013665	.023364	69
	0.000000	.014763	.025516	70
	0.000000	.016079	.027905	71
	0.000000	.017748	.030625	72
	0.000000	.019724	.033549	73
	0.000000	.021915	.036614	74
	0.000000	.024393	.040012	75
	0.000000	.027231	.043933	76
	0.000000	.030501	.048570	77
	0.000000	.034115	.053991	78
	0.000000	.038024	.060066	79
	0.000000	.042361	.066696	80
	0.000000	.047260	.073780	81
1.1.	0.000000	.052853	.081217	82
	0.000000	.058986	.088721	83
T T T T T T T T T T T T T T T T T T T	0.000000	.065569	.096358	84
C C T T T T T T T T	0.000000	.072836	.104559	85
	0.000000	.081018	.113755	86
	0.000000	.090348	.124377	87
	0.000000	.100882	.136537	88
	0.000000	.112467	.149949	89
131 F	0.000000	.125016	.164442	90
	0.000000	.138442	.179849	91
	0.000000	.152660	.196001	92
	0.000000	.167668	.213325	93
	0.000000	.183524	.231936	94
	0.000000	.200229	.251189	95
	0.000000	.217783	.270441	96
	0.000000	.236188	.289048	97
	0.000000	.255605	.306750	98
	0.000000	.276035	.323976	99
	0.000000	.297233	.341116	100

EXHIBIT III

ACTIVE AND INACTIVE PARTICIPANT PROFILES

------ ALL ACTIVE PARTICIPANTS ------

10-14	5-9 10-14 15-19 20-24 25-	25-29	30-34	35-39	+07	TOTAL	SALARIES	AVEKAGE SALARY
0 0	0	0	0	0	0	8	194,172.30	24,271.54
0 0	0	0	0	0	0	40	1,444,657.28	36,116.43
13 2	0	0	0	0	0	119	5,218,262.44	43,850.94
23 20	0	0	0	0	0	81	4,070,154.68	50,248.82
22 35	4	9	0	0	0	89	5,068,102,55	56,944.97
19 26	18	8	4	0	0	88	5,411,990.65	61,499.89
1 10	15	13	5	0	0	49	3,457,208.05	70,555.27
0 8	11	M	4	2	0	28	2,052,065.89	73,288.07
0 0	0	2	0	0	0	2	171,187.39	85,593.70
0 0	0	0	0	a	۴	L	61,134.32	61,134.32
the state state	1	1000				-		
78 101								

------ RETIREES WHO RETIRED UNDER SERVICE RETIREMENT BENEFIT FORMULA ------

AGE	0 - 4	5-9	10-14	YEARS SINCE RETIREMENT 15-19 20-24 25-29	ICE RETIRE 20-24	EMENT	30-34	35-39	+07	TDTAL	BENEFIT	BENEFIT
50-54	6	0	0	0	0	0	0	0	0	9	245,261.16	40,876.86
55-59	65	10	0	0	0	0	0	0	0	59	2,846,802.12	48,250.88
60-64	42	4.0	10	0	0	0	0	0	0	32	3,462,748.44	37,638.57
69-59	13	43	1.2	20	0	0	0	0	0	147	5,959,355.52	40,539.83
70-74	0	5	16	19	6	0	0	0	0	67	2,161,149.24	44,105.09
62-52	0	1	2	14	ŝ	£	0	0	0	25	1,197,389.88	47,895.60
80-84	0	0	O	F	0	o	٢	0	0	N	100,317.12	50,158.56
				*****				:				
	110	66	66	54	14	m	-	0	0	380	15,973,023.48	42,034.27

------ RETIREES WHO RETIRED UNDER DISABILITY RETIREMENT BENEFIT FORMULA ------

				YEARS SINCE	ICE RETIRE	MENT					TOTAL	AVERAGE
AGE	0-4	5-9	10-14	15-19	20-24 25	25-29	30-34	35-39	40+	TOTAL	BENEFIT	BENEFIT
30-34	2	٢	0	0	0	0	0	0	0	м	44,540.04	14,846.68
35-39	N	M	0	0	o	0	0	0	0	5	69,132.84	13,826.57
40-44	5	2	4	0	0	0	0	0	0	11	193,480.44	17,589.13
45-49	N	12	7	ŝ	F	÷	0	0	0	28	432,140.40	15,433.59
50-54	4	9	8	4	0	0	0	0	0	22	445,159.20	20,234.51
55-59	0	N	2	15	м	2	2	0	0	26	580,150.68	22,313.49
60-64	0	0	4	17	ŝ	2	2	0	0	33	847,911.84	25,694.30
69-59	0	0	0	7	6	30	8	11	F	66	1,855,380.12	28,111.82
42-02	0	0	0	0	5	21	4	4	м	37	1,015,124.64	27,435.80
62-52	0	0	0	0	D	m	M	F	5	80	187,440.60	23,430.08
ŧ												
	15	26	25	48	23	62	19	16	5	239	5,670,460.80	23,726.78

----- SURVIVORS AND BENEFICIARIES ------

AVERAGE ANNUAL BENEFIT	3,600.00	9,593.43	13, 751.43	22,014.00	11,034.30	21,417.24	21,578.61	20,696.56	22,409.71	19,020.87	22,674.21	30,910.68		19,617.30
TOTAL ANNUAL BENEFIT	21,600.00	38,373.72	55,005.72	44,028.00	22,068.60	192,755.16	194,207.52	558,807.12	672,291.24	304,333.92	90,696.84	61,821.36		2,255,989.20
TOTAL	9	4	4	2	N	6	6	27	30	16	4	N		115
+0,+	0	0	0	0	0	0	0	0	٣	0	0	0		F
35-39	0	0	0	0	0	0	0		0	0	٢	0		2
30-34	0	0	0	0	0	0	0	F	1	0	0	0		2
RETIREMENT 20-24 25-29	0	0	ц.	F	0	0	ł	0	N	0	0	o		ŝ
LL 4	0	0	0	0	0	0	Ŧ	m	5	м	0	N		14
YEARS SINCI 15-19	0	L	0	0	F	F	F	2	5	N	0	0		13
10-14	¢.	0	-	1	0	٢	N	9	4	ñ		0		20
0-4 5-9 10-14		F.	N	0	0	N		5	4	2	L	0		19
	4	2	D	0	F	5	ñ	6	8	9	1	0		39
AGE	0-19	30-34	35-39	40-44	45-49	20-54	55-59	60-64	62-69	70-74	62-52	80-84	******	

----- TERMINATED VESTED ------

AVERAGE ANNUAL BENEFIT	12,947.28	13,654.92 13,654.92		26,602.20 13,301.10
TOTAL ANNUAL BENEFIT	12,947.28	13,654.92		26,602.20
TOTAL	۴	÷		2
	0	0		0
TIO-14 TEARS SINCE RETIREMENT	0	0	101100	0
30-34	0	0		0
EMENT	0	0		0
NCE RETIRI 20-24	0	0		0
YEARS SI	0	0		0
10-14	F	F		2
5-9	0	D		0
0-4	0	0		0
AGE	45-49	50-54		

----- D.R.O.P. ------

0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40+ TOTAL BENEFIT B 1 0 0 0 0 0 1 41,190.60 41 1 0 0 0 0 0 1 41,190.60 41 1 0 0 0 0 0 1 41,190.60 41 1 0 0 0 0 0 1 41,190.60 41 27 0 0 0 0 0 1 48 48 28 5 0 0 0 0 1 41,190.66 45 28 5 0 0 0 0 1 41,190.66 45 27 1 5 0 0 0 1 41,190.66 45 28 4 0 0 0 0 1 41,191.66 <th></th> <th></th> <th></th> <th></th> <th>VEADS STN</th> <th>CC DCTIDC</th> <th>MENT</th> <th></th> <th></th> <th></th> <th></th> <th>TOTAL</th> <th>AVERAGE</th>					VEADS STN	CC DCTIDC	MENT					TOTAL	AVERAGE
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			1		15-19	20-24	25-29	30-34	35-39	40+	TOTAL	BENEFIT	BENEFIT
	25-29	-	D	0	0	o	0	0	0	0	•	41,190.60	
27 0 0 0 0 0 27 1,320,603.48 28 5 0 0 0 0 0 33 1,944,097.68 8 4 0 0 0 0 0 12 542,890.68 0 0 2 0 0 0 0 2 80,221.20 0 0 0 0 0 0 2 80,221.20 .	30-34	٣	0	0	0	0	0	0	0	0	Ļ	68,568.72	68,568.72
28 5 0 0 0 0 33 1,944,097.68 8 4 0 0 0 0 0 12 542,890.68 9 4 0 0 0 0 0 0 12 542,890.68 0 0 2 0 0 0 0 2 80,221.20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50-54	27	0	0	0	0	0	0	0	0	27	1,320,603.48	48,911.24
8 4 0 0 0 0 0 12 542,890.68 0 0 2 0 0 0 0 2 80,221.20 1 1 1 1 1 1 1 1 1 1 1 0 0 0 2 80,221.20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	55-59	28	5	0	0	0	0	0	0	0	33	1,944,097.68	58,912.05
0 0 2 0 0 0 0 2 80,221.20 - - - - - - - 80,221.20 - - 80,221.20 - - 80,221.20 -	60-64	8	4	0	0	0	0	0	0	0	12	542,890.68	45,240.89
5 9 2 0 0 0 0 0 0 0 0 76	69-59	0	0	N	0	0	0	0	0	0	2	80,221.20	40,110.60
5 9 2 0 0 0 0 0 76							A STAFF						TOTAL PROPERTY
		65	6	2	0	0	0	0	0	0	76	3,997,572.36	52,599.64

EXHIBIT IV

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

January 1, 2017 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.

NEW PROGRAM (PIECO OF LILL TO LILL TO LILL TO LILL POLICE

	NDING PROGRESS (RATIO OF UAL TO VALUA	12/31/2015	12/31/2016
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] 	<pre>\$ 443,974,948 50,267,773 \$ 393,707,175</pre>	\$ 414,297,054 \$ 42,997,738 \$ 371,299,316
[2]	Valuation Annual Payroll	27,088,650	27,148,936
[3]	Ratio: [1] divided by [2]	1,453.4%	1,367.6%
FUN	NDED RATIO:		
[1]	Projected Benefit Obligation (PBO) Inactive Plan Participants Active Plan Participants	\$ 313,974,445 	\$ 289,441,501 104.805,451
	Total PBO	\$ 422,449,269	\$ 394,246,952
[2]	Actuarial Value of Assets [Table 2]	50,267,773	42,997,738
[3]	Funded Ratio: [2] divided by [1]	11.9%	10.9%

р				ESTI	ESTIMATED MARKET VALUE INVESTMENT PERFORMANCE BY CALENDAR YEAR	VALUE INVESTMEN CALENDAR YEAR	T PERFORMANCE				
PLAN YEAR ENDING	BEGINNING MARKET VALUE	EMPLOYER CONTRIBUTIONS FOR YEAR	EMPLOYEE CONTRIBUTIONS FOR YEAR	TRANSFERS IN FOR YEAR	TOTAL BENEFIT PAYMENTS FOR YEAR	ADMIN. EXP. PAID FOR YEAR	TRANSFERS OUT FOR YEAR	NET EXTERNAL CASH FLOW FOR YEAR	MARKET VALUE INV. INCOME FOR YEAR	ENDING MARKET VALUE	MARKET VALUE INV. PERFORMANCE FOR YEAR
12/31/89 12/31/90	63, 251, 791 73, 539, 025	2,300,376 2,847,583	1,004,032 939,725	00	1,577,116	0 461,358	00	1,727,292	8,559,942	73,539,025	13.3508% 3.4000%
12/31/91 12/31/92 12/31/93 12/31/94 12/31/94	77,634,667 93,596,593 103,308,388 114,891,956 113,888,819	2,635,584 2,932,621 2,943,408 3,060,000 2,432,809	1,001,139 929,870 892,937 1,003,994 880,460	0 0 171,213 0	2,220,269 2,694,476 2,695,511 2,905,124 3,311,215	461,358 874,479 762,243 844,397 844,397	00000	955,096 303,536 378,591 485,686 -692,116	15,006,830 9,408,259 11,204,977 -1,488,823 21,286,694	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%
12/31/96 12/31/97 12/31/98 12/31/99 12/31/00	134,483,397 151,980,282 176,898,322 189,793,427 202,320,314	3, 156, 371 3, 003, 240 2, 484, 935 3, 518, 964 3, 408, 018	947,985 824,895 918,554 877,143 877,776	172,480 21,212 45,406 442,875 0	3,883,545 4,245,951 5,379,188 7,126,322 8,619,349	105,923 154,421 210,208 276,321 179,682	22,411 77,850 13,155 885,209	287,368 -573,436 -2,219,250 -2,576,816 -5,400,446	17,209,517 25,491,476 15,114,355 15,103,703 -3,367,278	151,980,282 176,898,322 189,793,427 202,320,314 193,552,590	12.7831% 16.8046% 8.5980% 8.0124% -1.6868%
12/31/01 12/31/02 12/31/03 12/31/04 12/31/05	193,552,590 181,377,427 167,583,191 166,103,196 201,013,160	3,013,446 3,969,948 5,176,521 8,054,342 8,086,423	870,889 879,824 993,560 1,019,897 956,839	66,809 98,744 0 19,248	8, 281, 637 8, 722, 403 10, 915, 756 11, 407, 122 12, 778, 332	425,740 372,959 325,982 367,781 313,531	614,570 0 23,611 115,635 0	-5,370,803 -4,146,846 -5,095,268 -2,816,299 -2,816,299	-6,804,360 -9,647,390 23,615,273 17,726,263 13,204,332	181, 377, 427 167, 583, 191 186, 103, 196 201, 013, 160 201, 013, 160 210, 188, 139	-3.5650% -5.3805% 14.3092% 9.5976% 6.6354%
12/31/06 12/31/07 12/31/08 12/31/09 12/31/10	211, 691, 854 216, 049, 557 233, 872, 821 160, 001, 205 158, 780, 489	9,364,984 8,883,070 10,478,336 10,983,038 11,431,455	928,295 1,035,535 1,128,484 1,244,825 1,244,825	76, 137 85, 453 14, 894 76, 512 25, 746	15, 289, 598 15, 709, 765 17, 907, 434 22, 755, 378 22, 423, 348	894, 709 857, 876 862, 450 904, 888 664, 812	0 474,174 471,474 0 0	-5,814,891 -7,037,757 -7,262,810 -11,355,891 -10,258,005	10, 172, 594 24, 861, 021 -66, 608, 806 10, 135, 175 11, 751, 117	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%
12/31/11 12/31/12 12/31/13 12/31/14 12/31/15	160,273,601 158,486,068 143,536,118 84,775,908 65,377,497	11,986,688 12,158,524 12,312,710 20,648,538 30,579,281	1,496,021 1,379,957 1,392,726 2,038,542 2,576,572	33,190 40,015 134,100	24, 324, 080 28, 825, 866 31, 312, 865 38, 979, 029 40, 732, 649	684,779 1,315,010 934,816 600,909 822,056	0 13,702 43,819 27,390	-11,526,150 -16,569,205 -18,515,932 -16,802,577 -8,426,242	9,738,617 1,619,255 -40,244,278 -5,328,054 -6,683,482	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%
12/31/16 51 Do. of Years:	50,267,773 ars: 28	32,278,593 234,128,931	2,729,769 33,141,199	34,007	39,663,316	879,623	251,070	-5,751,640 -146,535,516	-1,518,395 122,045,528	42,997,738	-3.2039%

FIREFIGHTERS' PENSION AND RELIEF FUND FOR THE CITY OF NEW ORLEANS ESTIMATED MARKET VALUE INVESTMENT PERFORMANCE

MUBVMAST.R1

P. 26

Conefry & Company, LLC

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

4.1545% -4.6522% 7.8783% 3.7353% 3.6921% ACTUARIAL ASSETS INV. PERF. FOR YR 14.5731% 8.8992% 12.5852% 2.0052% 11.4401% 13.3676% 15.7443% 8.5899% 8.7798% 3.4861% 15.0131% 7.6599% -4.1325% -5.5875% -10.2340% 6.7964% 4.9970% -7.3105% -37.3415% -6.7621% . 1533% 3.2039% NO ASSETS ACTUARIAL VALUE OF ASSETS 143,202,836 165,130,539 177,000,489 189,850,815 190,974,538 219,788,356 229,316,592 212,727,368 189,802,659 160,645,159 71,595,392 89,953,752 98,275,923 111,046,572 113,763,854 113,763,854 193,426,182 180,377,277 189,292,029 193,493,695 196,533,991 159,645,451 150,639,776 121,788,159 62,645,277 50,267,773 10 42,997,738 ENDING VALUE ACTUARIAL BEGINNING ACTUARIAL ALUE OF ASSETS 77,617,769 89,953,752 98,275,923 111,046,572 113,763,854 126,046,831 143,202,836 165,130,539 177,000,489 189,850,815 190,974,538 193,426,182 180,377,277 189,292,029 193,493,695 196,533,991 219,788,356 229,316,592 212,727,368 189,802,659 64,933,327 160,645,159 159,645,451 150,639,776 121,788,159 62,645,277 50,267,773 VALUE NET EXTERNAL CASH FLOW DURING YEAR 955,096 303,536 378,591 485,686 485,686 287,368 -573,436 -2,579,250 -2,576,816 -5,400,446 -5,370,803 -4,146,846 -5,095,268 -2,816,299 -5,814,891 -7,037,757 -7,262,810 -11,355,891 -10,258,005 -11,526,150 -16,569,205 -18,515,932 -16,802,577 -8,426,242 1,727,292 5,751,640 T VALUE . PERF. YEAR 13.3508% 3.4000% 19.2119% 10.0357% 10.8263% -1.2931% 18.7477% 12.7831% 16.8046% 8.5980% 8.0124% -1.6868% -3.5650% -5.3805% 14.3092% 9.5976% 6.6354% 4.8723% 11.6976% -28.9300% 6.5675% 7.6479% 6.3029% 1.0781% -29.9708% -6.9762% -10.9271% -3.2039% MARKET VE INV. F 93,596,593 103,308,388 114,891,956 113,888,819 134,483,397 151,980,282 176,898,322 189,793,427 202,320,314 193,552,590 181,377,427 167,583,191 186,103,196 201,013,160 210,188,139 73,539,025 216,049,557 233,872,821 160,001,205 158,780,489 160,273,601 158,486,068 143,536,118 84,775,908 62,645,277 50,267,773 MARKET VALUE 42,997,738 VALUE MARKET 77,634,667 93,596,593 103,308,388 114,891,956 113,888,819 134,483,397 151,980,282 176,898,322 189,793,427 202,320,314 193,552,590 181,377,427 167,583,191 186,103,196 201,013,160 63,251,791 73,539,025 211,691,854 216,049,557 233,872,821 160,001,205 158,780,489 160,273,601 158,486,068 143,536,118 84,775,908 65,377,497 MARKET VALUE 50,267,773 12/31/92 12/31/92 12/31/92 12/31/93 12/31/94 2/31/89 12/31/96 12/31/97 12/31/98 12/31/99 12/31/99 12/31/01 12/31/02 12/31/03 12/31/04 12/31/05 12/31/06 12/31/07 12/31/08 12/31/09 12/31/09 12/31/11 12/31/12 12/31/13 12/31/14 12/31/15 12/31/16 YEAR

MVBVMAST.R2

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

				81	Y CALENDAR YEAR		A NAME OF ALL OF		
	-	ECTANT	NET EXTERNAL	RKET V		INVEST	MENT PERFORM	ANCE	
P. 2	ENDING	MARKET VALUE		FOR YEAR	MARKET VALUE	FOR YEAR	CUMULATIVE	AVERAGE	YEAR
28	12/31/1989 12/31/1990	63, 251, 791 73, 539, 025	1,727,292	8,559,942 2,526,994	73,539,025 77,634,667	13.3508% 3.4000%	13.35%	13.35% 8.26%	- N
	2/31/199	7,634,6	55,09	,006,83	93,596,59	9.2119	9.72	1.79	M.
	12/31/1993	308.38	378,591	11 204 977	103,308,388 114 Ro1 956	10.0357%	53.74%	11.35%	4 u
	31/199	4,891,95	85,68	488,82	13,888,81	1.2931	8.19	9.05	.9
	2/31/199	3,888,81	92,11	1,286,69	34,483,39	8.7477	9.72	.39	2
	31/199	34,483,39	87,36	7,209,51	51,980,28	2.7831	25.25	0.68	8
	2/31/199	51,980,28	-573,43	5,491,47	76,898,32	.8046	63.10	1.35	
	2/31/199	76,898,32	2,219,25	5,114,35	89, 793, 42	.5980	85.72	20.	
	12/31/2000	202,320,314	-5,400,446	-3,367,278	193,552,590	8.0124% -1.6868%	203.41%	9.69%	12
	0067 12	03 657 60	r 770 00					b	
	002/12/2	C7 222 18	10, 01c. c	0, 404, 50	81,511,42	1000C.2	96.59	0	
	12/31/2003	167.583.191	-5.095.268	75. 219.	1.200.	%C002 71	16.00	\$ C .	
	2/31/200	86.103.19	2.816.29	7.726.26	01.013.16	9.5976	46.83	0.8	
	31/200	01,013,16	4,029,35	3,204,3	10, 188, 13	.635	269.85%	8.00%	12
	/31/200	11,691,85	,814,89	0,172,59	16,049,55	4.8723	87.87	.82	
	/31/200	16,049,55	7,037,75	4,861,02	33,872,82	.6976	33.24	.02	
	002/12/	22, 378, 82	18,202,7-	6,608,80	60,001,20	8.9300	04.70	22.	
	12/31/2010	158, 780, 489	-10,258,005	11, 751, 117	160,273,601	7.6479%	253.22%	5.90%	22
	31/201	0,273,60	1,526,15	738,61	8,486,06	.3029	75.48	.92	
	2/31/201	8,486,06	6,569,20	1,619,25	3,536,11	1.0781	79.53	12.	
	2/31/201	3,536,11	515,93	0,244,27	4,775,90	9.9708	65.78	. 99	
	12/31/2015	84, (75, 908	-16,802,577 -8,426,242	-5,328,054 -6,683,482	267	-10.9271%	147.24%	3.54%	27
	12/31/2016	50,267,773	-5,751,640	-1,518,395	42,997,738	-3,2039%	113.17%	2.74%	28
(2	Number of Years	Included: 28						

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, 2017 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.

Michael A. Conefry, FCA, ASA, MAAA Enrollment Number 17-1235

Belle Chasse, Louisiana June, 2017

V201612N.FIR