

The Water and Power Employees' Retirement  
Plan of the City of Los Angeles

***Review of the Disability Fund  
as of July 1, 2008***

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*December 1, 2008*

*Board of Administration  
The Water and Power Employees' Retirement Plan of the City of Los Angeles  
111 North Hope Street, Room 357  
Los Angeles, California 90012*

*Dear Board Members:*

*We are pleased to submit this review of the Disability Fund as of July 1, 2008. It establishes the funding requirements for fiscal 2008-2009 and analyzes the preceding year's experience.*

*The census and financial information on which our calculations were based was prepared by the Retirement Office. That assistance is gratefully acknowledged. The actuarial calculations were completed under the supervision of John Monroe, ASA, MAAA, Enrolled Actuary.*


*This review has been completed in accordance with generally accepted actuarial principles and practices. To the best of our knowledge, the information supplied in this review is complete and accurate. Further, in our opinion, the assumptions as approved by the Board are reasonably related to the experience of and the expectations for the Funds.*

*We are members of the American Academy of Actuaries and we meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein.*

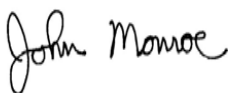
*We look forward to reviewing this report at your next meeting and to answering any questions.*

*Sincerely,*

*THE SEGAL COMPANY*

By:   
\_\_\_\_\_  
*Paul Angelo, FSA, MAAA, EA  
Senior Vice President and Actuary*

*KR/gxk*

  
\_\_\_\_\_  
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Vice President and Associate Actuary*



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## SECTION 1: Review Summary

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### Significant Issues in Review Year:

- Ref: Pg. 14*

➤ The Temporary Disability benefits and Permanent Total Disability benefits are included in this review. The funding for the Temporary Disability Benefit includes both the entire Temporary Disability Benefit plus the Extended Temporary Disability Benefit. Only the Supplemental Industrial Disability benefit is funded by the Department on a cash basis. All the disability benefits are summarized in Section 3 of this report.
- Ref: Pg. 3  
Ref: Pg. 2*

➤ The total reserve for the disability benefits has increased from \$35.5 million on June 30, 2007 to \$39.6 million on June 30, 2008. Member contributions amounted to about \$400,000 for the 2006-2007 fiscal year and about \$425,000 for the 2007-2008 fiscal year. Department contributions amounted to about \$8.4 million for 2006-2007 fiscal year and about \$14.2 million for the 2007-2008 fiscal year.
- Ref: Pg. 8*

➤ Until the 2007-2008 fiscal year, contributions to the Temporary Disability Benefit Fund have been substantially less than the outgoing benefit payments. This has resulted in the General Reserve for this fund going from a positive balance of \$6 million as of June 30, 2004 to a negative balance of \$1 million as of June 30, 2008. See Section 2.C for details.
- Ref: Pg. 5*

➤ The recommended Department contribution rate for the Temporary Disability Benefit Fund has decreased from \$2.18 per \$100 of compensation to \$1.70 per \$100 of compensation. This is primarily due to the increase in the balance of the General Reserve from June 30, 2007 to June 30, 2008, which resulted from the increased Department contribution rate for 2007-2008. See Section 2.B for details.

➤ For purposes of determining the recommended contribution rate for the Temporary Disability Benefit Fund, we have assumed that there is one year remaining on the funding period to reach the target reserve level, even though that period expired at June 30, 2008. Extending this funding period even further would decrease the rate even more. For example, if this period was extended an additional three years (for a total of four years), the recommended Department contribution rate would be \$1.56 per \$100 of compensation.
- Ref: Pg. 10*

➤ The recommended Department contribution rate for the Permanent Total Disability Fund remains at \$0 per \$100 of compensation.

➤ The annual interest rate assumption for this valuation remains at 5%, as adopted by the Board following the July 1, 2002 valuation. The Board may want us to review all the assumptions, methods and reserving policies for this Fund. In particular, the Board may wish to increase the target reserve level of the Temporary Disability Benefit Fund to reflect a greater level of distribution variance for these benefits.

## SECTION 2: Disability Fund

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### A. INTRODUCTION AND CONSOLIDATED FINANCIAL INFORMATION

In this section, we give a general description of the method used to fund the various disability benefits of the Department of Water and Power. Under the funding method used, the total annual contribution to the Disability Fund equals the present value of all future payments for those expected to become disabled during the year, with a further adjustment for any interest credited to the reserves. The present value referred to is for disabilities that “accrue” in a given year and is called the “incurred claims” for the year.

Under this funding method no reserves are expected to accumulate to help cover future claims beyond those incurred during the forthcoming year.

The incurred claims for a year normally are estimated as the paid claims for the year plus the increase in claim reserves from one fiscal year-end to another. The claim reserve as of any year-end is the present value of all future disability payments on all claims that remains “open” (i.e., still disabled).

Amounts of paid claims, open claims (number and amount), and the general reserves are provided by the Retirement Office, and accepted by The Segal Company without audit.

The total annual contribution to the Disability Fund is levied as a dollar rate per \$100 of covered compensation. There are separate rates for Temporary Disability and Permanent Total Disability; these rates in turn are split between employees and the Department of Water and Power. Currently, employees pay \$1.00 each biweekly payroll period for both Temporary and Permanent Disability benefits.

In subsequent pages we recommend contribution rates for the various benefits based on a review of the past experience of the funds. We present tables that show the actual annual rate per \$100 of covered payroll. However, there has been substantial fluctuation in these rates over the years. Accordingly, we recommend the rate that, in our judgment, best reflects a balance of recent experience and probable future trends.

Our recommended contribution rates also are designed to maintain a general reserve for each fund. The general reserve is maintained primarily to provide funds in the event of substantial adverse experience. In subsequent pages, we state a desirable level for each general reserve. However, the general reserve is actually any balance of funds available over claim reserves. Thus, it is unlikely that the general reserve will be exactly at recommended levels at any given time. Rather, the recommended level should be regarded as a long-term goal for the general reserve.

Following our July 1, 2002 valuation, a resolution was adopted to lower the annual interest rate assumption to 5%. That 5% interest rate assumption is continued in this valuation.

In the following sections, we discuss Temporary Disability Benefits and Permanent Total Disability Benefits.

**SECTION 2: Disability Fund**

**CHART 1**

**Consolidated Summary Statement of Income and Expenses**

	<b>Year Ended June 30, 2008</b>	<b>Year Ended June 30, 2007</b>
<b>Contribution income:</b>		
Employer contributions – temporary disability benefit	\$12,618,600	\$7,122,491
Employer contributions – permanent total disability benefit	0	0
Employer contributions – supplemental disability benefit	1,109,605	831,698
Employer contributions - administrative expenses	<u>491,208</u>	<u>440,824</u>
Total employer contribution income	\$14,219,413	\$8,395,013
Employee contributions – temporary disability benefit	\$213,483	\$200,811
Employee contributions – permanent total disability benefit	<u>211,810</u>	<u>199,223</u>
Total employee contribution income	\$425,293	\$400,034
<b>Investment income:</b>		
Investment Income	\$1,655,677	\$1,664,049
Net appreciation (depreciation) in market value	551,605	352,501
Less investment fees	<u>-33,460</u>	<u>-46,502</u>
Net investment income	<u>\$2,173,822</u>	<u>\$1,970,048</u>
<b>Total income available for benefits</b>	<b>\$16,818,528</b>	<b>\$10,765,095</b>
<b>Less benefit payments:</b>		
Distributions – temporary disability benefit	\$8,854,767	\$9,201,313
Distributions – extended temporary disability benefit	723,525	301,675
Distributions – permanent total disability benefit	1,542,574	1,493,732
Distributions – supplemental disability benefit	<u>1,105,279</u>	<u>829,409</u>
Total distributions	\$12,226,145	\$11,826,129
Administrative expenses	<u>481,650</u>	<u>431,210</u>
<b>Total deductions</b>	<b>\$12,707,795</b>	<b>\$12,257,339</b>
<b>Net increase (decrease) in reserve</b>	<b>\$4,110,733</b>	<b>-\$1,492,244</b>

**SECTION 2: Disability Fund**

**CHART 2**

**Consolidated Summary Statement of Plan Assets**

	Year Ended June 30, 2008	Year Ended June 30, 2007
<b>Cash equivalents</b>	\$163,305	\$248,832
<b>Accounts receivable:</b>		
Employer contributions	\$2,679,652	\$1,378,737
Accrued investment income	138,066	145,872
Other	402,321	222,218
Contingent disability benefit advance	<u>3,310,339</u>	<u>3,310,339</u>
Total accounts receivable	\$6,530,378	\$5,057,166
<b>Investments:</b>		
Bonds	\$30,324,247	\$28,781,288
Short-term investments	<u>2,774,162</u>	<u>1,601,558</u>
Total investments at market value	<u>\$33,098,409</u>	<u>\$30,382,846</u>
<b>Total assets</b>	\$39,792,092	\$35,688,844
<b>Less accounts payable:</b>		
Total accounts payable	-\$155,959	-\$163,443
<b>Net assets at market value</b>	<u>\$39,636,133</u>	<u>\$35,525,401</u>

**SECTION 2: Disability Fund**

**B. TEMPORARY AND EXTENDED TEMPORARY DISABILITY BENEFITS**

The Temporary Disability Benefits referred to in this section normally commence on the fifteenth day of disability and terminate at the end of the twelfth month of disability. The monthly benefit is 40% to 85% of compensation, depending on length of service and disability.

In the attached exhibit, we set forth a summary of the cost of the Temporary Disability Benefits from inception of the Plan to June 30, 2008.

**CHART 3**

**Rates of Contribution per \$100 of Compensation for Temporary and Extended Temporary Disability Benefits**

Rates Per \$100 of Compensation			
As of June 30	By Member	By Department	Total
1938 - 1939	\$ .36	\$ .24	\$ .60
1940 - 1942	.47	.31	.78
1942 - 1947	.39	.26	.65
1947 - 1953	.59	.39	.98
1953 - 1956	.47	.31	.78
1957 - 1958	.36	.24	.60
1959 - 1973	.27	.18	.45
1974 - 1975	.39	.26	.65
1975 - 1980	.45	.30	.75
1980 - 1985	*	*	.75
1985 - 1987	*	*	.75
1987 - 1992	*	*	.61
1993	*	*	.45
1994	*	*	.35
1995	*	*	.35
1996	*	*	.30
1997	*	*	.25
1998	*	*	.25
1999	*	*	.35
2000	*	*	.35
2001 - 2003	*	*	.68
2004 - 2005	*	*	.74
2006	*	*	1.55
2007	*	*	2.18

\* From January 1980 to January 1984, employees paid \$1 per month and the Department paid the balance of the total rate. As of January 1984, the employee amount was increased to \$1 per biweekly payroll period.



## SECTION 2: Disability Fund

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For Temporary and Extended Temporary Disability, the claim reserve is calculated as the sum of:

1. The open claim reserve, which is the number of open claims times the reserve factor specified in Section III D (2) of the Plan, and
2. The pending claim reserve, which is 1/26 of the benefits paid during the preceding fiscal year.

Incurred claims at an annual rate per \$100 of covered payroll are calculated as described in Section 2.A. and Section 3, Exhibit I. Since 1980, the goal for the general reserve has been to maintain it at approximately 20% of the claim reserve (\$1,214,396 as of June 30, 2008). Thus, the “target” is equal to \$242,879 (20% x \$1,214,396), as opposed to the actual general reserve of -\$968,228 as of June 30, 2008. The current policy, was to fund so as to reach this goal by June 30, 2008 (i.e., 10 years from June 30, 1998). Therefore, to meet the funding policy, an immediate Department contribution of \$1,211,107 would be required. Alternatively, the Department may want to consider extending the period to reach this goal by a short number of years.

In 2000, \$11 million was transferred over from the Permanent Total Disability Fund and the entire Temporary and Extended Temporary Disability Benefit became payable from this Fund. The Temporary Disability Experience Table indicates that, since 2000, the average cost per \$100 of covered payroll is \$1.31 before taking into account interest on the general reserve.

Based on reserves as of June 30, 2008, the expected interest credit for the next year is -\$0.01 per \$100 (assuming a 5% investment return). Thus, the net average rate per \$100 of covered payroll is about \$1.32.

Since 2000, the general reserve has followed a decreasing trend due to the contribution rates being lower than the increased claim rates.

As noted above, the total contribution rate needed to pay for expected claims is \$1.31 per \$100 of covered payroll. In order to increase the general reserve to the target level under a funding policy that extends the current policy for one more year, we recommend a total contribution of \$1.73 per \$100 of covered payroll. After taking into account the employee contribution of \$1 per biweekly payroll period (which amounts to approximately \$0.03 per \$100 of covered payroll), the net recommended Department rate is \$1.70. This is a decrease from the current rate, which is \$2.18.

Pursuant to Section III D (2) of the Plan, the Temporary Disability claim reserve at the end of each year is determined by multiplying the number of open claims at the end of the year by a reserve factor of \$4,368 for 2007, and \$4,500 for 2008. This is an increase from the \$4,000 for 2005 and \$4,200 for 2006. The current reserve factor of \$4,500 was provided by the Retirement Office, and accepted by The Segal Company without audit.

**SECTION 2: Disability Fund**

**C. TEMPORARY DISABILITY EXPERIENCE TABLE**

<b>Year Ending June 30</b>	<b>Covered Payroll</b>	<b>Claims and Expenses Paid</b>	<b>Claims and Expenses Incurred</b>	<b>Annual Rate of Incurred Claims and Expenses Per \$100 of Covered Payroll</b>	<b>Cumulative Rate of Incurred Claims and Expenses Per \$100 of Covered Payroll</b>	<b>General Reserve</b>
1939	\$ 9,705,000	\$ 33,138	\$ 44,138	.45	.45	\$ 14,090
1940	14,015,000	60,138	65,797	.47	.46	45,061
1941	13,350,000	73,867	78,867	.59	.51	70,323
1942	13,415,000	79,870	79,870	.60	.53	95,090
1943	12,645,000	87,933	87,933	.70	.56	89,351
1944	12,400,000	108,197	113,197	.91	.62	56,753
1945	12,396,000	98,138	104,138	.84	.65	33,189
1946	15,293,000	123,539	123,539	.81	.68	9,056
1947	20,027,000	156,483	165,483	.83	.70	(8,741)
1948	23,316,000	161,558	158,558	.68	.70	61,194
1949	27,386,000	157,975	155,975	.57	.68	173,506
1950	30,105,000	163,475	175,476	.58	.66	293,063
1951	30,130,000	180,286	177,286	.59	.65	411,057
1952	37,792,000	204,381	208,381	.55	.64	573,038
1953	40,678,000	228,354	262,354	.64	.64	757,895
1954	44,915,000	255,289	244,289	.54	.63	892,666
1955	50,632,000	241,898	215,898	.43	.60	1,102,717
1956	53,988,000	244,824	242,824	.45	.59	1,317,674
1957	56,225,000	268,883	280,883	.50	.58	1,419,437
1958	63,087,000	286,924	291,924	.46	.56	1,557,783
1959	65,930,000	368,644	414,644	.63	.57	1,578,671
1960	65,993,000	388,060	305,260	.46	.56	1,628,091
1961	68,055,000	381,033	380,833	.56	.56	1,611,264
1962	73,192,000	393,013	404,413	.55	.56	1,593,485
1963	78,546,000	500,671	512,371	.65	.57	1,491,219
1964	83,672,000	562,565	518,765	.62	.57	1,401,956
1965	87,976,000	536,280	543,480	.62	.58	1,304,304
1966	92,885,000	554,020	548,920	.59	.58	1,220,641
1967	98,253,000	566,985	580,185	.59	.58	1,127,344
1968	103,283,000	634,571	633,871	.61	.58	999,592

**SECTION 2: Disability Fund**

**C. TEMPORARY DISABILITY EXPERIENCE TABLE (continued)**

<b>Year Ending June 30</b>	<b>Covered Payroll</b>	<b>Claims and Expenses Paid</b>	<b>Claims and Expenses Incurred</b>	<b>Annual Rate of Incurred Claims and Expenses Per \$100 of Covered Payroll</b>	<b>Cumulative Rate of Incurred Claims and Expenses Per \$100 of Covered Payroll</b>	<b>General Reserve</b>
1969	\$111,396,000	\$ 704,242	\$ 703,542	\$.63	\$.58	\$ 833,701
1970	121,866,000	767,820	775,170	.64	.59	637,461
1971	131,730,000	889,228	897,478	.68	.59	354,292
1972	140,154,000	859,374	864,575	.62	.60	132,771
1973	143,834,000	1,011,796	1,034,196	.72	.61	(253,712)
1974	146,962,000	1,140,512	1,175,512	.80	.62	(483,644)
1975	156,628,000	1,190,786	1,206,236	.77	.63	(702,745)
1976	163,951,000	1,304,122	1,325,572	.81	.64	(852,027)
1977	165,258,000	1,300,411	1,312,161	.79	.65	(959,819)
1978	172,256,000	1,404,379	1,393,979	.81	.66	(1,103,713)
1979	177,648,000	1,378,601	1,410,042	.79	.67	(107,066)
1980	175,962,000	1,400,805	1,350,503	.77	.67	(132,312)
1981	202,902,000	1,496,480	1,514,388	.75	.68	64,895
1982	245,734,000	1,394,848	1,438,322	.59	.67	505,214
1983	274,644,000	1,687,704	1,678,899	.61	.67	957,656
1984	288,311,000	1,789,909	1,864,263	.65	.67	1,370,865
1985	310,359,000	1,975,135	1,977,432	.64	.66	1,875,475
1986	327,365,000	2,210,661	2,251,124	.69	.67	2,157,948
1987	360,065,000	1,969,935	2,005,236	.56	.66	2,728,701
1988	400,537,000	2,290,491	2,260,068	.56	.65	3,348,749
1989	394,086,000	2,261,337	2,248,205	.57	.64*	3,849,928
1990	411,248,000	2,171,299	2,160,636	.53	.62*	4,580,470
1991	402,648,000	2,233,586	2,194,051	.54	.59*	5,286,005
1992	475,252,000	2,354,177	2,375,545	.50	.59*	6,298,902
1993	464,000,000	2,348,727	2,373,719	.51	.58*	6,888,804
1994	470,000,000	2,516,640	2,567,498	.55	.57*	6,709,671
1995	450,713,000	2,964,258	2,933,789	.65	.57*	5,845,370
1996	441,956,000	2,225,030	2,076,306	.47	.54*	5,593,988
1997	472,678,000	2,019,565	2,016,440	.43	.53*	5,286,560
1998	417,262,000	2,416,341	2,473,601	.59	.53*	4,210,250

**SECTION 2: Disability Fund**

**C. TEMPORARY DISABILITY EXPERIENCE TABLE (continued)**

<b>Year Ending June 30</b>	<b>Covered Payroll</b>	<b>Claims and Expenses Paid</b>	<b>Claims and Expenses Incurred</b>	<b>Annual Rate of Incurred Claims and Expenses Per \$100 of Covered Payroll</b>	<b>Cumulative Rate of Incurred Claims and Expenses Per \$100 of Covered Payroll</b>	<b>General Reserve</b>
1999	\$355,148,948	\$1,858,677	\$2,016,329	\$ .57	\$ .53*	\$ 3,371,035
2000	369,509,233	4,682,621	4,809,494	1.30	1.30**	13,339,138***
2001	403,265,472	4,211,036	4,426,638	1.10	1.20**	11,141,509
2002	430,397,884	4,584,284	4,528,640	1.05	1.15**	9,999,795
2003	472,432,303	5,306,242	5,388,510	1.14	1.15**	8,353,541
2004	522,227,280	6,210,253	6,246,423	1.20	1.16**	5,966,023
2005	554,839,816	7,298,197	7,480,641	1.35	1.19**	2,715,895
2006	574,315,572	8,897,820	9,028,144	1.57	1.24**	(2,009,091)
2007	604,514,525	9,502,988	9,556,168	1.58	1.29**	(4,328,288)
2008	623,634,208	9,578,292	9,540,484	1.53	1.31**	(968,228)

\* Average of ten most recent rates prior to the addition of the entire Temporary and Extended Temporary Disability Benefit.

\*\* Average of rates after addition of the entire Temporary and Extended Temporary Disability Benefits.

\*\*\* In 2000, \$11 million was transferred from the Permanent Total Disability Fund. Starting in 2000, the entire Temporary and Extended Temporary Disability Benefit became payable from this Fund.

Note: Starting in 1987, expenses are not included.

**SECTION 2: Disability Fund**

**D. PERMANENT TOTAL DISABILITY BENEFITS**

Permanent Total Disability Benefits may commence as early as the thirteenth month of disability or as late as the twenty-fifth month, depending on the member's condition and Extended Temporary Disability Coverage. The monthly benefit is an amount equal to 40% of the member's compensation. Cost-of-living benefits, with a

3% maximum increase per year (similar to those provided to service retirees), were adopted as of April 1, 1970.

The attached exhibit summarizes the cost of Permanent Total Disability Benefits from inception of the Plan to June 30, 2008.

**CHART 4**

**Rates of Contribution per \$100 of Compensation for Permanent Total Disability Benefits**

Rates Per \$100 of Compensation			
As of June 30	By Member	By Department	Total
1938 – 1942	\$ .62	\$ .41	\$ 1.03
1942 – 1947	.52	.34	.86
1947 – 1953	.62	.41	1.03
1953 – 1956	.52	.34	.86
1956 – 1959	.36	.24	.60
1959 – 1969	.21	.14	.35
1969 – 1973	.12	.08	.20
1973 – 1975	.24	.16	.40
1975 – 1980	.36	.24	.60
1980 – 1981	*	*	.60
1981 – 1987	*	*	.55
1987 – 1992	*	*	.25
1992 – 1998	*	*	.05
1998 – 2008	*	.00	*

\* From January 1980 to January 1984, employees paid \$1 per month and the Department paid the balance of the total rate. As of January 1984, the employee amount was increased to \$1 per biweekly payroll period.

## SECTION 2: Disability Fund

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For Permanent Total Disability Benefit, the claim reserve is calculated as the sum of:

1. The open (or reported) claim reserve, which is the present value of future disability benefits for open claims, and
2. The pending claim reserve, which is the contributions made during the fiscal year.

The rate of interest used by the Department in the present value calculation is 5%. Beginning in 1983, the present value calculation also reflects 3% cost-of-living increases. The incurred claims and the annual experience rate per \$100 of covered payroll were calculated as described in Section 2.A. and Section 3, Exhibit III. The current goal for the general reserve is that it be maintained at approximately 20% of the claim reserve.

For several years the Permanent Total Disability Experience Table has shown a downward trend in the annual cost per \$100 of covered payroll. In 1983 the claim cost returned to earlier levels, but this was artificially high due to the change in reflecting cost-of-living increases. It appears that we have reached a somewhat stable cumulative rate of claim costs, although year by year costs are fluctuating.

As of June 30, 2008 the general reserve for Permanent Total Disability is \$28,327,932. This is much larger than the amount needed to meet the 2008 goal for the reserve, which is \$2,619,687. Also, it should be noted that expected interest on the general reserve (which amounts to \$1,416,397, or \$0.23 per \$100 of covered payroll, based on the reserve as of June 30, 2008 and 5% interest) is not reflected in the annual rate shown in the experience table.

If no expected interest on the general reserve had been taken into account, the average annual rate of contribution would have been \$0.29 per \$100 of covered payroll over the last 20 years, and the annual rate of contribution as of June 30, 2008 would have been \$0.38 per \$100 of covered payroll. The expected interest on the reserves (\$0.23 per \$100 of covered payroll) would reduce the \$0.29 per \$100 of payroll and \$0.38 per \$100 of payroll contribution rates to \$0.06 and \$0.15, respectively.

The general reserve is so large that interest alone is expected to be enough to pay a significant portion of the claims for many years to come. Thus, we recommend that the Department contribution be zero cents per \$100 of covered compensation so that the general reserve can be reduced to its target level.

**SECTION 2: Disability Fund**

**E. PERMANENT TOTAL DISABILITY EXPERIENCE TABLE**

<b>Year Ending June 30</b>	<b>Covered Payroll</b>	<b>Claims and Expenses Paid</b>	<b>Claims and Expenses Incurred*</b>	<b>Annual Rate of Incurred Claims and Expenses Per \$100 of Covered Payroll*</b>	<b>Cumulative Rate of Incurred Claims and Expenses Per \$100 of Covered Payroll</b>	<b>General Reserve</b>
1939	\$ 9,742,000	\$ 3,711	\$ 87,711	\$ .90	\$ .90	\$ 13,604
1940	13,989,000	21,342	103,588	.74	.81	56,344
1941	13,266,000	24,788	74,936	.56	.72	122,383
1942	13,306,000	32,566	91,896	.69	.71	175,539
1943	12,574,000	43,318	74,067	.59	.69	219,667
1944	12,319,000	58,699	83,340	.68	.69	252,063
1945	12,309,000	85,014	146,059	1.19	.76	218,072
1946	15,152,000	89,721	241,219	1.59	.88	111,847
1947	19,836,000	109,058	270,398	1.36	.96	18,764
1948	23,235,000	120,837	175,320	.75	.93	80,980
1949	27,275,000	136,224	133,200	.49	.86	233,675
1950	29,974,000	138,210	96,082	.32	.78	458,989
1951	29,990,000	135,367	144,943	.48	.74	632,438
1952	37,565,000	134,551	11,043	.03	.64	1,044,175
1953	40,464,000	156,803	403,365	1.00	.76	1,055,235
1954	44,971,000	184,131	166,033	.37	.64	1,316,150
1955	49,389,000	192,397	234,939	.48	.62	1,547,758
1956	50,836,000	179,587	14,956	.03	.56	2,021,772
1957	52,720,000	180,814	249,641	.47	.55	2,157,769
1958	58,829,000	152,089	33,695	.06	.50	2,560,220
1959	61,495,000	146,785	381,672	.62	.51	2,615,720
1960	64,964,000	187,826	367,442	.57	.52	2,572,558
1961	67,012,000	216,655	509,906	.76	.54	2,394,036
1962	71,708,000	230,601	205,588	.29	.52	2,526,768
1963	77,236,000	227,517	327,404	.42	.51	2,560,680
1964	82,455,000	240,242	319,583	.39	.50	2,624,717
1965	86,833,000	248,687	291,596	.34	.48	2,736,710
1966	91,488,000	277,855	395,424	.43	.48	2,763,324
1967	96,225,000	286,761	202,661	.21	.46	3,009,729
1968	101,556,000	298,893	401,943	.40	.46	3,079,294

**SECTION 2: Disability Fund**

**E. PERMANENT TOTAL DISABILITY EXPERIENCE TABLE (continued)**

<b>Year Ending June 30</b>	<b>Covered Payroll</b>	<b>Claims and Expenses Paid</b>	<b>Claims and Expenses Incurred*</b>	<b>Annual Rate of Incurred Claims and Expenses Per \$100 of Covered Payroll*</b>	<b>Cumulative Rate of Incurred Claims and Expenses Per \$100 of Covered Payroll</b>	<b>General Reserve</b>
1969	\$109,554,000	\$ 334,656	\$ 731,158	\$ .67	\$ .47	\$2,840,069
1970	120,246,000	374,358	729,926	.61	.48	2,446,761
1971	130,096,000	376,744	245,854	.19	.46	2,561,379
1972	138,857,000	446,816	1,012,405	.73	.48	1,902,860
1973	143,308,000	502,274	930,350	.65	.49	1,283,193
1974	146,886,000	582,628	1,244,725	.85	.52	651,223
1975	156,760,000	682,830	1,483,906	.95	.54	(214,183)
1976	164,183,000	761,200	1,332,986	.81	.56	(644,432)
1977	165,224,000	867,586	1,629,326	.99	.59	(1,348,628)
1978	171,767,000	920,799	1,042,386	.61	.59	(1,432,449)
1979	176,576,000	907,163	972,121	.55	.59	1,348,852
1980	177,340,000	912,703	837,008	.47	.58	1,887,689
1981	202,994,000	1,006,200	369,334	.18	.55	2,750,719
1982	245,580,000	946,778	29,798	.01	.51	4,404,597
1983	274,629,000	978,647	1,755,073	.64**	.52	4,534,031
1984	288,289,000	1,000,319	725,141	.21	.50	5,879,532
1985	310,360,000	1,006,631	591,410	.19	.48	7,623,235
1986	321,523,000	974,376	569,547	.18	.46	9,284,884
1987	360,072,000	901,033	121,268	.03	.45	11,090,748
1988	401,029,000	946,468	840,245	.21	.44	13,253,261
1989	394,084,000	1,024,870	1,563,694	.40	.47***	13,929,718
1990	411,248,000	1,038,907	594,815	.14	.45***	15,723,997
1991	405,132,000	1,046,404	739,845	.18	.45***	18,108,405
1992	472,984,000	1,054,203	989,998	.21	.42***	20,483,790
1993	464,000,000	1,102,722	1,652,617	.36	.41***	21,843,275
1994	470,000,000	1,058,778	320,344	.07	.37***	24,150,799
1995	515,122,000	1,059,537	1,506,726	.29	.34***	25,312,906
1996	456,604,000	1,027,066	1,230,694	.27	.27***	26,514,847
1997	460,540,000	930,321	1,166,197	.25	.27***	28,156,245
1998	432,750,000	1,022,029	839,204	.19	.25***	30,206,085



**SECTION 2: Disability Fund**

**E. PERMANENT TOTAL DISABILITY EXPERIENCE TABLE (continued)**

<b>Year Ending June 30</b>	<b>Covered Payroll</b>	<b>Claims and Expenses Paid</b>	<b>Claims and Expenses Incurred*</b>	<b>Annual Rate of Incurred Claims and Expenses Per \$100 of Covered Payroll*</b>	<b>Cumulative Rate of Incurred Claims and Expenses Per \$100 of Covered Payroll</b>	<b>General Reserve</b>
1999	\$355,148,948	\$ 944,740	\$1,257,860	\$.35	\$.24***	\$32,320,298
2000	369,509,233	1,023,333	1,336,453	.36	.24***	22,231,871
2001	403,265,472	1,037,601	681,004	.17	.24***	24,428,829
2002	430,397,884	1,107,061	2,760,650	.64	.27***	23,552,296
2003	472,432,303	1,154,061	1,451,604	.31	.25***	24,159,068
2004	522,227,280	1,235,285	2,557,099	.49	.26***	23,211,839
2005	554,839,816	1,344,393	1,237,126	.22	.26***	25,396,120
2006	574,315,572	1,416,598	684,738	.12	.26***	26,438,032
2007	604,514,525	1,493,732	2,624,785	.43	.28***	25,697,532
2008	623,634,208	1,542,574	2,366,329	.38	.29***	28,327,932

\* Reflects credit of interest earnings on Claim Reserves but not on the General Reserve.

\*\* This rate is artificially high due to the introduction of cost-of-living increases in the Claim Reserve Calculation.

\*\*\* Average of rates for last 20 years

Note: Starting in 1987, expenses are not included.

**SECTION 3: Summary of Assumptions, Funding Methods and Plan Provisions for the Water and Power Employees' Disability Funds**

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**EXHIBIT I**

**Actuarial Assumptions and Actuarial Cost Method Used for Temporary and Extended Temporary Disability Benefit**

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<b>Plan Year:</b>	July 1 through June 30
<b>Definition of Active Member:</b>	First day of biweekly payroll period following employment for new Department employees or immediately following transfer from other City departments.
<b>Projected Covered Payroll:</b>	\$708,731,840 for 2008-2009 plan year.
<b>Net Investment Return:</b>	5.00%
<b>Consumer Price Index (CPI):</b>	Increase of 3.75% per year; benefit increases due to CPI subject to 3.0% maximum.
<b>Member Contribution Rate:</b>	Employees start contributing on the first day of the payroll period following the completion of 26 continuous weeks of Department and/or City service at the rate of \$1.00 for each biweekly payroll period.
<b>Department Contribution Rate:</b>	Rate recommended by Board's Actuary multiplied by the total monthly equivalent of Compensation.
<b>Funding Method:</b>	Annual contributions equal the present value of all future disability payments for those expected to become disabled during the year with a further adjustment for interest credited to the reserves. Subject to modification by the Department's funding policy.
<b>Funding Policy:</b>	Recommend a contribution rate to reach a target general reserve equal to 20% of the claim reserve at the end of ten years from June 30, 1998. Starting July 1, 2008, we have assumed that there is one year remaining on the policy.
<b>Claim Reserve:</b>	The sum of the Open Claim Reserve and the Pending Claim Reserve.
<b>Open Claim Reserve:</b>	The number of open claims times the reserve factor specified in Section IIID(2) of the Plan. The reserve factor was increased in 2007 to \$4,368 and to \$4,500 in 2008. These reserve factors are provided by the Retirement office and accepted by The Segal Company without audit.
<b>Pending Claim Reserve:</b>	1/26 of the total benefits paid during the preceding fiscal year.
<b>Incurred Claims:</b>	Paid claims for the year plus the increase in claim reserves.

**SECTION 3: Summary of Assumptions, Funding Methods and Plan Provisions for the Water and Power Employees' Disability Funds**

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**EXHIBIT II**

**Summary of Temporary and Extended Temporary Disability Benefit**

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**Age Requirement:** Any age

**Service Requirement:** Six months of continuous service.

**Temporary Benefit:** The biweekly benefit is a percentage of the biweekly compensation payable from the fifteenth day of disability through the end of the twelfth month of disability. The percentage is based on the following table.

Period of Continuous Service		Maximum Period Payable at Percentage of Compensation			
Not less than	Less than	85%	60%	50%	40%
6 months	3 Years	2 Weeks	1 Week	26 Weeks	21 Weeks
3 Years	5 Years	4 Weeks	2 Weeks	26 Weeks	18 Weeks
5 Years	10 Years	6 Weeks	3 Weeks	26 Weeks	15 Weeks
10 Years	15 Years	18 Weeks	10 Weeks	22 Weeks	--
15 Years	20 Years	20 Weeks	12 Weeks	18 Weeks	--
20 Years	25 Years	22 Weeks	14 Weeks	14 Weeks	--
25 Years	30 Years	24 Weeks	16 Weeks	10 Weeks	--
30 Years	35 Years	26 Weeks	18 Weeks	6 Weeks	--
35 Years		28 Weeks	20 Weeks	2 Weeks	--

**SECTION 3: Summary of Assumptions, Funding Methods and Plan Provisions for the Water and Power Employees' Disability Funds**

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**EXHIBIT II**

**Summary of Temporary and Extended Temporary Disability Benefit (continued)**

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**Extended Disability Requirements:** Received 50 weeks of Temporary Disability benefits and is not eligible for Permanent Total Disability.

**Extended Disability Benefit:** The biweekly benefit is 33 1/3 percent of their biweekly compensation payable from the end of the twelfth month of disability through the twenty-fourth month of disability. However, if a member qualifies for Permanent Total Disability while such member is receiving Extended Temporary Disability benefits, such benefits shall be terminated and the member shall receive the Permanent Total Disability benefits to which they are entitled.

**SECTION 3: Summary of Assumptions, Funding Methods and Plan Provisions for the Water and Power Employees' Disability Funds**

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**EXHIBIT III**

**Actuarial Assumptions and Actuarial Cost Method Used for Permanent Total Disability Benefit**

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<b>Plan Year:</b>	July 1 through June 30
<b>Definition of Active Member:</b>	First day of biweekly payroll period following employment for new Department employees or immediately following transfer from other City departments.
<b>Projected Covered Payroll:</b>	\$708,731,840 for 2008-2009 plan year.
<b>Net Investment Return:</b>	5.00%
<b>Consumer Price Index (CPI):</b>	Increase of 3.75% per year; benefit increases due to CPI subject to 3.0% maximum.
<b>Mortality:</b>	Based on Plan Experience
<b>Member Contribution Rate:</b>	Employees start contributing on the first day of the payroll period following the completion of 26 continuous weeks of Department and/or City service at the rate of \$1.00 for each biweekly payroll period.
<b>Department Contribution Rate:</b>	Rate recommended by Board's Actuary multiplied by the total monthly equivalent of Compensation.
<b>Funding Method:</b>	Annual contributions equal the present value of all future disability payments for those expected to become disabled during the year with a further adjustment for interest credited to the reserves. Subject to modification by the Department's funding policy.
<b>Funding Policy:</b>	Recommend a contribution rate to maintain a target general reserve equal to 20% of the claim reserve.
<b>Claim Reserve:</b>	The sum of the Open Claim Reserve and the Pending Claim Reserve.
<b>Open Claim Reserve:</b>	The present value of future disability benefits for open claims.
<b>Pending Claim Reserve:</b>	Contributions made during the fiscal year.
<b>Incurred Claims:</b>	Paid claims for the year plus the increase in claim reserves.

**SECTION 3: Summary of Assumptions, Funding Methods and Plan Provisions for the Water and Power Employees' Disability Funds**

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**EXHIBIT IV**

**Summary of Permanent Total Disability Benefit**

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<b>Age Requirement:</b>	Any age
<b>Service Requirement:</b>	Six months continuous service.
<b>Other Requirements:</b>	Received 50 weeks of Temporary Disability benefits and satisfies the rules for Permanent Total Disability.
<b>Monthly Benefit:</b>	The monthly benefit is 40 percent of the monthly compensation payable from the end of the twelfth month of disability (or later if benefits are payable under the extended temporary disability benefit) until the first day of the calendar month following the sixty-fifth birthday. If Permanent Total Disability benefits commence after the member's sixtieth birthday, the benefit is payable for 60 months. Permanent and Total Disability benefits are subject to annual cost-of-living adjustments, based on the CPI up to a maximum of 3% per year.

**SECTION 3: Summary of Assumptions, Funding Methods and Plan Provisions for the Water and Power Employees' Disability Funds**

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**EXHIBIT V**

**Actuarial Assumptions and Actuarial Cost Method Used for Supplemental Industrial Disability Benefit**

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<b>Plan Year:</b>	July 1 through June 30
<b>Definition of Active Member:</b>	First day of biweekly payroll period following employment for new Department employees or immediately following transfer from other City departments.
<b>Projected Covered Payroll:</b>	\$708,731,840 for 2008-2009 plan year.
<b>Net Investment Return</b>	5.00%
<b>Member Contribution Rate:</b>	None
<b>Department Contribution Rate:</b>	Funded on a cash basis
<b>Funding Method:</b>	Pay as you go
<b>Funding Policy:</b>	Funded on a cash basis
<b>Claim Reserve:</b>	None
<b>Open Claim Reserve:</b>	None
<b>Pending Claim Reserve:</b>	None
<b>Incurred Claims:</b>	Paid claims for the year

**SECTION 3: Summary of Assumptions, Funding Methods and Plan Provisions for the Water and Power Employees' Disability Funds**

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**EXHIBIT VI**

**Summary of Supplemental Industrial Disability Benefit**

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<b>Age Requirement:</b>	Any age
<b>Service Requirement:</b>	Six months of continuous service.
<b>Additional Requirements:</b>	Injury or disease which arises out of and in the course of employment in the Department. Receiving workers' compensation benefits.
<b>Supplemental Benefit:</b>	For the first ten days the biweekly benefit is their biweekly compensation offset by the amount received from workers' compensation. Afterwards, the biweekly benefit is the Temporary, Extended Temporary, or Permanent Total Disability benefits offset by the amount received from workers' compensation.

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