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

Actuarial Valuation and Review as of July 1, 2009

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October 19, 2009

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 Actuarial Valuation and Review as of July 1, 2009. It summarizes the actuarial data used in the valuation, establishes the funding requirements for fiscal 2009-2010 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 actuarial valuation has been completed in accordance with generally accepted actuarial principles and practices. To the best of our knowledge, the information supplied in this actuarial valuation 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 Plan.

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

*B*y:

Paul Angelo, FSA, MAAA, EA

Senior Vice President and Actuary

John Monroe, ASA, MAAA, EA

Vice President and Associate Actuary

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Purpose

This report has been prepared by The Segal Company to present a valuation of The Water and Power Employees' Retirement Plan of the City of Los Angeles as of July 1, 2009. The valuation was performed to determine whether the assets and anticipated contributions are sufficient to provide the prescribed benefits. The contribution requirements presented in this report are based on:

- > The benefit provisions of the Pension Plan, as administered by the Board;
- > The characteristics of covered active members, inactive vested members, and retired members and beneficiaries as of March 31, 2009, provided by the Retirement Office;
- > The assets of the Plan as of June 30, 2009, provided by the Retirement Office;
- > Economic assumptions regarding future salary increases and investment earnings; and
- > Other actuarial assumptions, regarding employee terminations, retirement, death, etc.

Significant Issues in Valuation Year

- > The market value of assets earned a return of -15.53% for the July 1, 2008 to June 30, 2009 plan year. The actuarial value of assets earned a return of 2.28% for the July 1, 2008 to June 30, 2009 plan year due to the deferral of most of the current year investment losses and the recognition of prior investment gains. This resulted in an actuarial loss of \$410.2 million when measured against the assumed rate of return of 8.00%. This actuarial investment loss increased the Plan's required contribution by 5.73% of compensation.
- > The salaries for continuing actives increased by 6.8% from the rates in effect on March 31, 2008 to the rates in effect on March 31, 2009. Since this increase is greater than the average assumed rate of approximately 5.4%, the plan experienced an actuarial loss from salary experience. This loss amounted to \$29.1 million for the current year, which increased the Plan's required contribution by 0.41% of compensation.
- > Under the Plan's funding policy, the required contribution rate continues to be larger than the mandatory 110% matching of the employee contribution. The required contribution for the 2009-2010 plan year is 26.12% of pay, which is estimated to be \$210.3 million. This includes amortization of the components of the Plan's unfunded actuarial accrued liability (UAAL) over 15-year fixed periods.

- Ref: Pg. 8
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- > The total unrecognized return (i.e., the difference between the market value of assets and the "smoothed" actuarial value of assets) changed by \$1,214 million during the plan year from a \$393 million unrecognized loss in 2008 to a \$1,607 million unrecognized loss in 2009. This investment loss will be recognized in the determination of the actuarial value of assets over the next few years. This means that, if the Plan earns the assumed rate of investment return of 8.00% per year (net of expenses) on a **market value** basis, there will be investment losses on the actuarial value of assets in the next few years.
- > The unrecognized investment losses of \$1.6 billion represent about 28% of the market value of assets. Unless offset by future investment gains or other favorable experience, the future recognition of the \$1.6 billion in past market losses is expected to have a significant impact on the Plan's future funded ratio and required contributions. This potential impact may be illustrated as follows:
 - > If the deferred losses were recognized immediately in the actuarial value assets, the funded percentage would decrease from 90% to 70%.
 - > If the deferred losses were recognized immediately in the actuarial value of assets, the required contribution would increase from 26.12% of covered payroll to 48.57% of covered payroll.
- > This valuation reflects two changes in Plan provisions. The Board adopted two additional optional survivor death benefit allowances for surviving spouses of members who died while on duty at the Department of Water and Power. The Board also approved a discretionary COLA that restores purchasing power to 90% for eligible retirees. The combined effect of these changes in Plan provisions increased Plan costs by 0.03% of pay.
- > This year, the balance in the General Reserve and the Reserve for Investment Gains and Losses decreased from \$2,325 million as of June 30, 2008 to \$1,638 million as of June 30, 2009. These two reserves track changes in the book value of assets. Consistent with prior valuations, this year we have been instructed to include all but \$57.0 million of the end of year General Reserve and Reserve for Investment Gains and Losses as valuation assets. This is approximately 1% of the end of year market value of assets.
- > The actuarial accrued liability exceeds the actuarial value of assets, resulting in an unfunded actuarial accrued liability (UAAL) of \$808.3 million. The Board's funding policy determines the Department's required contribution as the normal cost increased or offset by a UAAL amortization charge or credit. Under this funding policy, the Plan's UAAL is amortized over various 15 year periods, each beginning with the year that each portion or base of the UAAL was first identified and amortized.
- > The actuarial valuation report as of July 1, 2009 is based on financial information as of that date. Changes in the value of assets subsequent to that date, to the extent that they exist, are not reflected. Declines in asset values will increase the actuarial cost of the plan, while increases will decrease the actuarial cost of the plan.

Ref: Pg. 13

Ref: Pg. 27

Ref: Pg. 22

Summary of Key Valuation Results

	2009	2008
Contributions for plan year beginning July 1:		
Required under funding policy	\$210,341,349	\$143,697,537
Percentage of payroll	26.12%	20.28%
Funding elements for plan year beginning July 1:		
Total normal cost	\$154,425,889	\$133,394,667
Market value of assets	5,698,877,784	6,924,141,445
Actuarial value of assets	7,248,721,252	7,247,853,233
Actuarial accrued liability	8,057,060,950	7,619,102,935
Unfunded actuarial accrued liability	808,339,698	371,249,702
Funded ratio	89.97%	95.13%
GASB 25/27 for plan year beginning July 1:		
Annual pension cost	\$215,787,754	\$146,768,605
Actual contributions		145,941,275
Percentage contributed		99.44%
Covered payroll*	\$805,137,795	\$696,704,083
Demographic data for plan year beginning July 1:		
Number of retired members and beneficiaries	8,505	8,670
Number of vested former members**	1,742	1,548
Number of active members	8,868	8,164
Total compensation	\$805,137,795	\$708,731,840
Average compensation	\$90,791	\$86,812

^{*} For 2008, this represents the actual covered payroll for 2008-2009 as reported by the Retirement Office.

^{**} Includes terminated members due a refund of employee contributions.

A. MEMBER DATA

The Actuarial Valuation and Review considers the number and demographic characteristics of covered members, including active members, vested terminated members, retired members and beneficiaries. This section presents a summary of significant statistical data on these member groups.

More detailed information for this valuation year and the preceding valuation can be found in Section 3, Exhibits A, B, and C.

A historical perspective of how the member population has changed over the past ten valuations can be seen in this chart.

CHART 1
Member Population: 2000 – 2009

Year Ended June 30	Active Members	Vested Terminated Members*	Retired Members and Beneficiaries	Ratio of Non-Actives to Actives
2000	6,807	1,387	9,749	1.64
2001	7,250	1,415	9,576	1.52
2002	7,403	1,426	9,353	1.46
2003	7,731	1,445	9,161	1.37
2004	7,893	1,525	8,973	1.33
2005	7,967	1,397	8,868	1.29
2006	7,926	1,481	8,817	1.30
2007	7,993	1,535	8,746	1.29
2008	8,164	1,548	8,670	1.25
2009	8,868	1,742	8,505	1.16

^{*}Includes terminated members due a refund of employee contributions.

Active Members

Plan costs are affected by the age, years of service and compensation of active members. In this year's valuation, there were 8,868 active members with an average age of 47.8, average years of service of 16.8 years and average compensation of \$90,791. The 8,164 active members in the prior valuation had an average age of 47.8, average service of 17.4 years and average compensation of \$86,812.

Inactive Members

In this year's valuation, there were 1,742 members with a vested right to a deferred or immediate vested benefit, or entitled to a return of their employee contributions.

These graphs show a distribution of active members by age and by years of service.

CHART 2
Distribution of Active Members by Age as of June 30, 2009

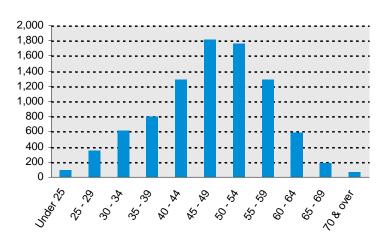
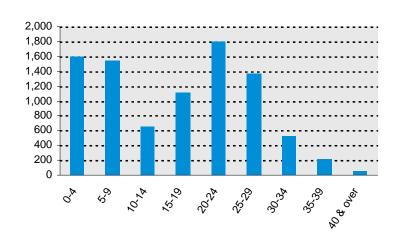


CHART 3
Distribution of Active Members by Years of Service as of June 30, 2009



Retired Members and Beneficiaries

As of June 30, 2009, 6,366 retired members and 2,139 beneficiaries were receiving total monthly benefits of \$31,015,343. For comparison, in the previous valuation, there were 6,501 retired members and 2,169 beneficiaries receiving monthly benefits of \$30,272,190.

These graphs show a distribution of the current retired members and beneficiaries based on their monthly amount and age, by type of pension.

CHART 4
Distribution of Retired Members and Beneficiaries by Type and by Monthly Amount as of June 30, 2009

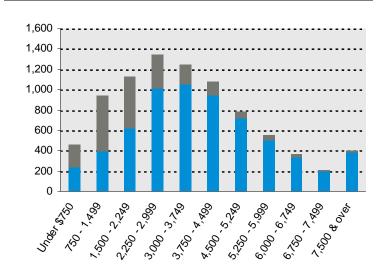
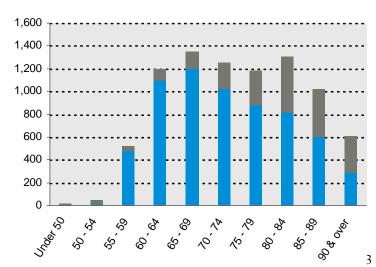


CHART 5
Distribution of Retired Members and Beneficiaries by Type and by Age as of June 30, 2009



■ Beneficiaries■ Retired Members

B. FINANCIAL INFORMATION

Retirement plan funding anticipates that, over the long term, both contributions and net investment earnings (less investment fees and administrative expenses) will be needed to cover benefit payments.

Retirement plan assets change as a result of the net impact of these income and expense components. Additional financial information, including a summary of these transactions for the valuation year, is presented in Section 3, Exhibits D, E and F.

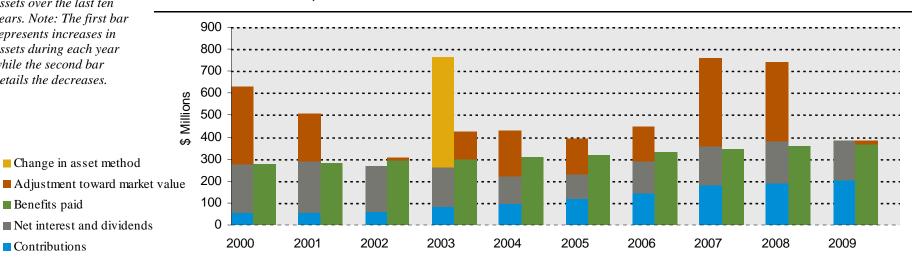
The chart depicts the components of changes in the actuarial value of assets over the last ten years. Note: The first bar represents increases in assets during each year while the second bar details the decreases.

■ Change in asset method

■ Benefits paid

Contributions





It is desirable to have level and predictable plan costs from one year to the next. For this reason, the Board has approved an asset valuation method that gradually adjusts to market value. Under this valuation method, the full value of market fluctuations is not recognized in a single year and, as a result, the asset value and the plan costs are more stable.

The amount of the adjustment to recognize market value is treated as income, which may be positive or negative.

Realized and unrealized gains and losses are treated equally and, therefore, the sale of assets has no immediate effect on the actuarial value.

Please note that as instructed by Plan staff, we have included all but \$57.0 million (approximately 1% of the end of year market value of assets) in the General Reserve and Reserve for Investments Gains and Losses as valuation assets.

The chart shows the determination of the actuarial value of assets as of the valuation date.

CHART 7 Determination of Actuarial Value of Assets as of June 30, 2009

1	Market value of assets, June 30, 2009	_		\$ 5,698,877,784
2	Calculation of Unrecognized Return	Original Amount*	Unrecognized Return**	
	(a) Year ended June 30, 2009	-\$ 1,610,405,832	-\$ 1,288,324,666	
	(b) Year ended June 30, 2008	-911,502,787	-546,901,672	
	(c) Year ended June 30, 2007	555,827,560	222,331,024	
	(d) Year ended June 30, 2006	30,315,338	6,063,068	
	(e) Total Unrecognized Return***			-1,606,832,246
3	Gross actuarial value: (1) - (2e)			7,305,710,030
4	Portion of General Reserve and Reserve for Investment Gains and Losses not included as valuation asset			56,988,778
5	Net actuarial value as of June 30, 2009: (3) – (4)			<u>\$7,248,721,252</u>
6	Net actuarial value as a percentage of market value: (5) / (1)			127.2%

^{*}Total return minus expected return on a market value basis

^{***}Deferred return as of June 30, 2009 recognized in each of the next 4 years:

-,		
(a)	Amount Recognized during 2009/2010	-\$387,153,144
(b)	Amount Recognized during 2010/2011	-\$393,216,212
(c)	Amount Recognized during 2011/2012	-\$504,381,724
(d)	Amount Recognized during 2012/2013	<u>-\$322,081,166</u>
Sub	total	-\$1,606,832,246

^{**}Recognition at 20% per year over 5 years

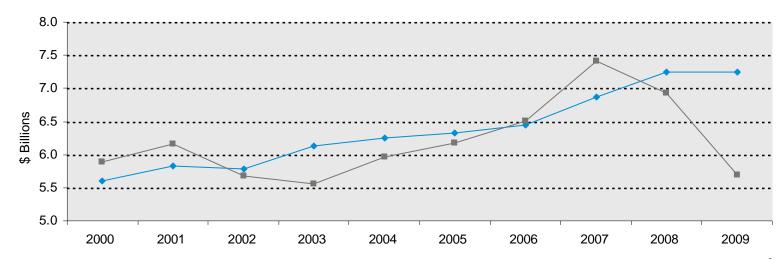
Both the actuarial value and market value of assets are representations of the LADWP's financial status. As investment gains and losses are gradually taken into account, the actuarial value of assets tracks the market value of assets. The actuarial asset value is significant because the LADWP's liabilities are compared to these assets to determine what portion, if any, remains unfunded. Amortization of the unfunded actuarial accrued liability is an important element in determining the contribution requirement.

Note that in the chart below, actuarial value of assets are exclusive of a small portion of the General Reserve and Reserve for Investment Gains and Losses while that Reserve is included in the development of the market value of assets.

This chart shows the change in the actuarial value of assets versus the market value over the past ten years.

CHART 8

Actuarial Value of Assets vs. Market Value of Assets as of June 30, 2000 – 2009



Actuarial Value

Market Value

C. ACTUARIAL EXPERIENCE

To calculate the required contribution, assumptions are made about future events that affect the amount and timing of benefits to be paid and assets to be accumulated. Each year actual experience is measured against the assumptions. If overall experience is more favorable than anticipated (an actuarial gain), the contribution requirement will decrease from the previous year. On the other hand, the contribution requirement will increase if overall actuarial experience is less favorable than expected (an actuarial loss).

Taking account of experience gains or losses in one year without making a change in assumptions reflects the belief that the single year's experience was a short-term development and that, over the long term, experience will

return to the original assumptions. For contribution requirements to remain stable, assumptions should approximate experience.

If assumptions are changed, the contribution requirement is adjusted to take into account a change in experience anticipated for all future years.

The total loss is \$474,643,935, of which \$410,171,095 is from investments and \$64,472,840 is from all other sources. The net experience variation from individual sources other than investments was 0.8% of the actuarial accrued liability. A discussion of the major components of the actuarial experience is on the following pages.

This chart provides a summary of the actuarial experience during the past year.

CHART 9

Actuarial Experience for Year Ended June 30, 2009

1.	Net loss from investments*	-\$410,171,095
2.	Net loss from salaries	-29,099,170
3.	Net loss from other experience	<u>-35,373,670</u>
4.	Net experience loss: $(1) + (2) + (3)$	-\$474,643,935

^{*} Details in Chart 10.

Investment Rate of Return

A major component of projected asset growth is the assumed rate of return. The assumed return should represent the expected long-term rate of return, based on the LADWP's investment policy. For valuation purposes, the assumed rate of return on the actuarial value of assets is 8.00%. The actual rate of return on an actuarial basis for the 2008-2009 plan year was 2.28%.

Since the actual return for the year was less than the assumed return, the LADWP experienced an actuarial loss during the year ended June 30, 2009 with regard to its investments.

This chart shows the gain/(loss) due to investment experience.

CHART 10

Actuarial Value Investment Experience for Year Ended June 30, 2009

Actual return	\$163,165,273
2. Average value of assets	7,166,704,606
3. Actual rate of return: $(1) \div (2)$	2.28%
4. Assumed rate of return	8.00%
5. Expected return: (2) x (4)	\$573,336,368
6. Actuarial loss: (1) – (5)	<u>-\$410,171,095</u>

Because actuarial planning is long term, it is useful to see how the assumed investment rate of return has followed actual experience over time. The chart below shows the rate of return on an actuarial basis compared to the market value investment return for the last ten years, including five-year and ten-year averages. Based upon future expectations, we have maintained the assumed rate of return of 8.00%. The investment return assumption will be reviewed, along with the other actuarial assumptions, in the next experience study.

CHART 11
Investment Return – Actuarial Value vs. Market Value: 2000 - 2009

	Net Interd Dividend		Recognition Apprec	•	Change in As	set Method	Actuaria Investmen		Market Value Retu	
Year Ended June 30	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent
2000	\$222,306,427	4.35	\$351,743,541	6.87			\$574,049,968	11.22	\$22,463,396	0.39
2001	232,814,492	4.24	217,489,958	3.96			450,304,450	8.20	492,327,362	8.52
2002	206,326,546	3.61	-14,327,506	-0.25			191,999,040	3.36	-251,053,638	-4.16
2003	182,004,368	3.20	-127,029,513	-2.24	\$503,018,121	8.86	557,992,976	9.82	107,504,970	1.93
2004	126,468,819	2.10	205,922,559	3.42			332,391,378	5.52	611,980,245	11.22
2005	114,263,238	1.86	164,012,112	2.66			278,275,350	4.52	419,463,599	7.16
2006	142,834,044	2.29	157,384,016	2.52			300,218,060	4.81	514,526,795	8.45
2007	175,884,502	2.76	402,557,938	6.33			578,442,440	9.09	1,066,710,135	16.58
2008	191,456,313	2.82	361,168,481	5.33			552,624,794	8.15	-324,830,786	-4.43
2009	178,210,091	2.49	-15,044,818	-0.21	<u></u>		163,165,273	2.28	-1,062,966,407	-15.53
Total	\$1,772,568,840		\$1,703,876,768		\$503,018,121		\$3,979,463,729		\$1,596,125,671	
						Five-year	average return	5.73%		1.88%
						Ten-year	average return	6.55%		2.61%

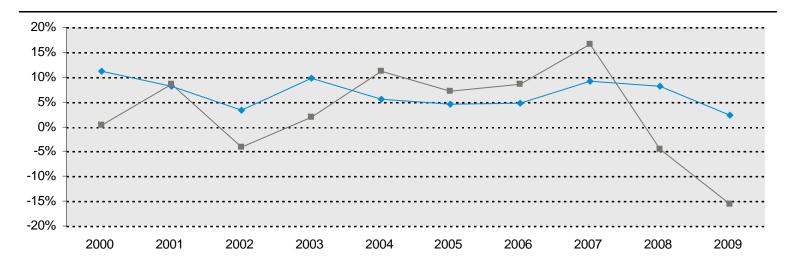
Note: Each year's yield is weighted by the average asset value in that year.

Subsection B described the actuarial asset valuation method that gradually takes into account fluctuations in the market value rate of return. The effect of this is to stabilize the actuarial rate of return, which contributes to leveling pension plan costs.

This chart illustrates how this leveling effect has actually worked over the years 2000 - 2009. The return for 2003 reflects a change in asset method.

CHART 12

Market and Actuarial Rates of Return for Years Ended June 30, 2000 - 2009



Other Experience

There are other differences between the expected and the actual experience that appear when the new valuation is compared with the projections from the previous valuation. These include:

- > the extent of turnover among the participants,
- > retirement experience (earlier or later than expected),
- > mortality (more or fewer deaths than expected),
- > the number of disability retirements, and
- > salary increases different than assumed.

The net loss from this other experience for the year ended June 30, 2009 amounted to \$64,472,840 which is 0.8% of the actuarial accrued liability. This loss is mainly the result of the large increase in active members and data adjustments to retired members included in the valuation, all offset to some extent by more deaths than expected amongst retirees. See Section 3, Exhibit G for a detailed development of the Unfunded Actuarial Accrued Liability.

D. REQUIRED CONTRIBUTION

The required Department contribution is made up of (a) the normal cost and (b) the amortization of the unfunded or overfunded actuarial accrued liability. For this year, amortization bases are created for the actuarial loss and for the plan amendment during plan year ending June 30, 2009. This produces a net amortization charge of \$98,035,202.

Under the current funding policy, the Department's required contribution rate increased as a percentage of pay. This was primarily the net result of the "smoothed" investment return being less than assumed, greater than expected salary increases for active members and other unfavorable actuarial experience.

The chart compares this valuation's required contribution with the prior valuation.

CHART 13
Required Contribution

Year Beginning July 1:	200	09	2008		
	Amount	% of Payroll	Amount	% of Payroll	
1. Total normal cost	\$154,425,889	19.18%	\$133,394,667	18.82%	
2. Expected employee contributions	-50,209,794	<u>-6.24%</u>	<u>-43,544,296</u>	<u>-6.14%</u>	
3. Employer normal cost: $(1) + (2)$	\$104,216,095	12.94%	\$89,850,371	12.68%	
4. Actuarial accrued liability	8,057,060,950		7,619,102,935		
5. Actuarial value of assets	7,248,721,252		7,247,853,233		
6. Unfunded actuarial accrued liability: (4) - (5)	\$808,339,698		\$371,249,702		
7. Amortization of unfunded actuarial accrued liability	98,035,202	12.18%	48,320,338	6.82%	
8. Total required contribution: (3) + (7), adjusted for timing*	210,341,349	<u>26.12%</u>	143,697,537	<u>20.28%</u>	
9. Employer match (110% of (2)), adjusted for timing*	57,440,004	7.13%	49,814,675	7.03%	
10. Greater of employer match (9) or total required contribution (8)	\$210,341,349	<u>26.12%</u>	<u>\$143,697,537</u>	<u>20.28%</u>	
11. Projected compensation	\$805,137,795		\$708,731,840		

^{*}Required contributions are assumed to be paid at the middle of every year.

The contribution rates as of July 1, 2009 are based on all of the data described in the previous sections, the actuarial assumptions described in Section 4, and the Plan provisions adopted at the time of preparation of the Actuarial Valuation. They include all changes affecting future costs, adopted benefit changes, actuarial gains and losses and changes in the actuarial assumptions.

Reconciliation of Required Contribution Rate

The chart below details the changes in the required contribution rate from the prior valuation to the current year's valuation.

The chart reconciles the contribution rate from the prior valuation to the amount determined in this valuation.

CHART 14 Reconciliation of Required Contribution Rate from July 1, 2008 to July 1, 2009

Required Contribution Rate as of July 1, 2008	20.28%
Effect of contributions more than the required contribution	-0.24%
Effect of investment loss	5.73%
Effect of losses on salary experience	0.41%
Effect of changes in Plan provisions	0.03%
Effect of other changes*	<u>-0.09%</u>
Total change	<u>5.84%</u>
Required Contribution Rate as of July 1, 2009	26.12%

^{*}Includes effect of increase in total payroll, as well as other differences in actual versus expected experience including mortality, disability, withdrawal and retirement experience.

E. INFORMATION REQUIRED BY THE GASB

Governmental Accounting Standards Board (GASB) reporting information provides standardized information for comparative purposes of governmental pension plans. This information allows a reader of the financial statements to compare the funding status of one governmental plan to another on relatively equal terms.

Critical information to the GASB is the historical comparison of the GASB required contribution to the actual contributions. This comparison demonstrates whether a plan is being funded within the range of GASB reporting requirements. Chart 15 below presents a graphical representation of this information for the Plan.

The other critical piece of information regarding the Plan's financial status is the funded ratio. This ratio compares the

actuarial value of assets to the actuarial accrued liabilities of the plan as calculated under GASB Standards. High ratios indicate a well-funded plan with assets sufficient to cover the Plan's accrued liabilities. Lower ratios may indicate recent changes to benefit structures, funding of the plan below actuarial requirements, poor asset performance, or a variety of other factors. This information is shown in Chart 16.

The details regarding the calculations of these values and other GASB numbers may be found in Section 4, Exhibits II, III, and IV.

These graphs show key GASB factors.

CHART 15
Required Versus Actual Contributions

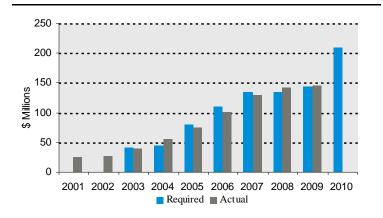
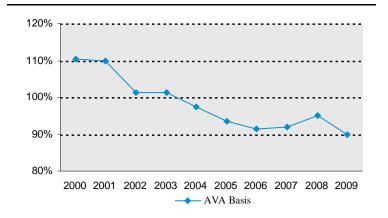


CHART 16 Funded Ratio



SECTION 3: Supplemental Information for The Water and Power Employees' Retirement Plan of the City of Los Angeles

EXHIBIT A

Table of Plan Coverage

	Year End	Year Ended June 30		
Category	2009	2008	Change From Prior Year	
Active members in valuation:				
Number	8,868	8,164	8.6%	
Average age	47.8	47.8	N/A	
Average service	16.8	17.4	N/A	
Projected total compensation	\$805,137,795	\$708,731,840	13.6%	
Projected average compensation	90,791	86,812	4.6%	
Account balances	844,870,628	793,450,328	6.5%	
Vested terminated members:*				
Number in pay status	1,742	1,548	12.5%	
Average age	50.0	50.0	N/A	
Average account balances	\$42,287	\$43,386	-2.5%	
Retired members:				
Number in pay status	6,366	6,501	-2.1%	
Average age	73.0	72.7	N/A	
Average monthly benefit	\$4,079	\$3,913	4.2%	
Beneficiaries:				
Number in pay status	2,139	2,169	-1.4%	
Average age	79.9	79.7	N/A	
Average monthly benefit	\$2,360	\$2,230	5.8%	

^{*}Includes terminated members due a refund of employee contributions.

SECTION 3: Supplemental Information for The Water and Power Employees' Retirement Plan of the City of Los Angeles

EXHIBIT B

Members in Active Service as of June 30, 2009

By Age, Years of Service, and Average Compensation

		Years of Service								
Age	Total	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & over
Under 25	90	89	1							
	\$68,481	\$68,646	\$53,781							
25 - 29	359	281	76	2						
	78,316	75,424	89,085	\$75,437						
30 - 34	623	321	262	40						
	81,575	75,874	89,112	77,966						
35 - 39	807	254	330	146	73	4				
	82,106	75,294	82,821	83,276	\$100,246	\$81,826				
40 - 44	1,283	216	300	163	337	259	8			
	89,317	75,247	83,045	85,433	101,505	95,109	\$82,502			
45 - 49	1,814	189	247	131	305	635	298	9		
	92,859	73,953	83,747	85,014	93,635	97,626	104,673	\$100,350		
50 - 54	1,758	135	157	88	200	419	570	179	10	
	96,638	75,288	84,475	88,184	93,905	95,403	106,535	101,133	\$111,948	
55 - 59	1,286	78	104	52	120	285	304	227	112	4
	94,772	78,686	84,172	82,335	92,861	92,909	97,311	102,358	106,238	\$91,314
60 - 64	595	25	46	31	50	129	142	84	63	25
	94,582	80,893	85,784	89,213	89,368	90,378	96,980	97,441	106,212	110,703
65 - 69	188	3	14	7	26	49	36	19	21	13
	91,592	129,933	89,104	104,967	88,829	84,308	88,333	93,237	100,582	103,292
70 & over	65		4	4	7	16	13	10	5	6
	84,271		66,553	76,543	83,453	75,715	90,869	85,283	91,101	103,335
Total	8,868	1,591	1,541	664	1,118	1,796	1,371	528	211	48
	\$90,791	\$75,253	\$84,736	\$84,847	\$96,038	\$94,882	\$102,329	\$100,475	\$105,579	\$106,159

SECTION 3: Supplemental Information for The Water and Power Employees' Retirement Plan of the City of Los Angeles

EXHIBIT C
Reconciliation of Member Data

	Active Members	Vested Former Members*	Retired Members	Beneficiaries	Total
Number as of July 1, 2008	8,164	1,548	6,501	2,169	18,382
New members	855	N/A	N/A	N/A	855
Terminations – with vested rights	-84	84	N/A	N/A	0
Retirements	-90	-12	102	N/A	0
Died with beneficiary	-3	0	-96	99	0
Died without beneficiary	-11	-10	-194	-148	-363
Rehired	52	-52	0	N/A	0
Data adjustments	0	279	53	19	351
Contribution refunds	<u>-15</u>	<u>-95</u>	<u>N/A</u>	<u>N/A</u>	<u>-110</u>
Number as of July 1, 2009	8,868	1,742	6,366	2,139	19,115

^{*}Includes terminated members due a refund of employee contributions.

EXHIBIT D
Summary Statement of Income and Expenses on an Actuarial Value Basis

	Year Ended J	une 30, 2009	Year Ended June 30, 2008	
Contribution income:				
Employer contributions	\$145,941,275		\$141,862,126	
Employee contributions	59,405,012		48,694,047	
Administrative expense contributions*	4,088,598		4,195,096	
Net contribution income		\$209,434,885		\$194,751,269
Investment income:				
Interest, dividends and other income	\$191,963,775		\$210,010,628	
Adjustment toward market value	-15,044,818		361,168,481	
Less investment and administrative fees	<u>-17,842,282</u>		-22,749,411	
Net investment income		<u>159,076,675</u>		548,429,698
Total income available for benefits		\$368,511,560		\$743,180,967
Less benefit payments:				
Retirement benefits paid	-\$363,691,635		-\$353,178,785	
Refund of members' contributions	<u>-3,951,906</u>		<u>-6,232,954</u>	
Net benefit payments		-\$367,643,541		-\$359,411,739
Change in reserve for future benefits		\$868,019		\$383,769,228

^{*}Included as investment income in other parts of this report (excluding Exhibit F).

EXHIBIT E
Summary Statement of Plan Assets

	Year Ended	lune 30, 2009	Year Ended June 30, 2008*		
Cash equivalents		\$4,669,737		\$1,008,365	
Accounts receivable:					
Accrued investment income	\$26,091,859		\$24,186,580		
Open investment trades and others	690,488,649		667,861,795		
Securities lending – collateral	720,618,144		746,102,425		
Department of Water and Power	23,385,426		21,103,724		
Total accounts receivable		1,460,584,078		1,459,254,524	
Investments:					
Fixed income	2,689,997,609		2,510,478,526		
Equities	2,683,145,102		4,025,380,107		
Other assets	625,613,025		554,201,429		
Total investments at market value		<u>5,998,755,736</u>		7,090,060,062	
Total assets		\$7,464,009,551		\$8,550,322,951	
Less accounts payable:					
Accounts payable	-1,044,513,623		-880,079,081		
Security lending - collateral	<u>-720,618,144</u>		<u>-746,102,425</u>		
Total accounts payable		-\$1,765,131,767		-\$1,626,181,506	
Net assets at market value		<u>\$5,698,877,784</u>		\$6,924,141,445	
Net assets at actuarial value		<u>\$7,248,721,252</u>		\$7,247,853,233	

^{*} Information shown is from last year's valuation report. This information was subsequently revised in the final financial statements that appear as part of the auditor's report.

SECTION 3: Supplemental Information for The Water and Power Employees' Retirement Plan of the City of Los Angeles

EXHIBIT F

Development of the Fund Through June 30, 2009

Year Ended June 30	Employer Contributions	Employee Contributions*	Other Contributions	Net Investment Return**	Benefit Payments	Actuarial Value of Assets at End of Year
2001	\$25,763,218	\$27,688,883	\$2,406,582	\$450,304,450	\$278,744,629	\$5,833,274,582
2002	27,241,801	30,002,271	2,214,752	191,999,040	294,469,498	5,790,262,948
2003	40,560,882	36,490,767	2,623,157	557,992,976	299,555,007	6,128,375,723
2004	55,804,924	38,045,999	2,452,293	332,391,378	305,649,192	6,251,421,125
2005	75,490,143	38,855,089	2,534,097	278,275,350	315,528,276	6,331,047,528
2006	101,556,257	41,324,895	2,914,174	300,218,060	329,297,478	6,447,763,436
2007	129,154,539	47,060,446	3,549,724	578,442,440	341,886,580	6,864,084,005
2008	141,862,126	48,694,047	4,195,096	548,429,698	359,411,739	7,247,853,233
2009	145,941,275	59,405,012	4,088,598	159,076,675	367,643,541	7,248,721,252

^{*}Includes member normal contributions, Additional Annuity program contributions and contributions due to open contracts for purchased service.

^{**} Net of investment fees and administrative expenses. Includes a change in asset method of \$503 million for 2003.

SECTION 3: Supplemental Information for The Water and Power Employees' Retirement Plan of the City of Los Angeles

EXHIBIT G

Development of Unfunded Actuarial Accrued Liability for Year Ended June 30, 2009

1	Unfunded actuarial accrued liability at beginning of year		\$371,249,702
2	Normal cost at beginning of year		133,394,667
3	Total actual contributions (employer and employee)		-205,346,287
4	Interest		
	(a) For whole year on $(1) + (2)$	\$40,371,550	
	(b) For half year on (3)	<u>-8,213,851</u>	
	(c) Total interest		32,157,699
5	Expected unfunded actuarial accrued liability		\$331,455,781
6	Changes due to:*		
	(a) Investment loss	\$410,171,095	
	(b) Losses on salary experience	29,099,170	
	(c) Other losses	35,373,670	
	(d) Plan provisions	<u>2,239,982</u>	
	(e) Total changes		476,883,917
7	Unfunded actuarial accrued liability at end of year		<u>\$808,339,698</u>

^{*}Does not include a contribution gain of \$17,307,931 during the year from actual contributions greater than required.

SECTION 3: Supplemental Information for The Water and Power Employees' Retirement Plan of the City of Los Angeles

EXHIBIT H
Table of Amortization Bases

Type*	Date Established	Initial Years	Initial Amount	Annual Payment*	Years Remaining	Outstanding Balance
Combined Base	07/01/2004	15	\$170,392,797	\$18,432,327	10.00	\$133,577,008
Actuarial Loss	07/01/2005	15	267,915,003	28,981,841	11.00	223,452,353
Actuarial Loss	07/01/2006	15	183,420,211	19,841,574	12.00	161,489,861
Actuarial Loss	07/01/2007	15	47,238,833	5,110,085	13.00	43,620,080
Assumption Changes	07/01/2007	15	-18,102,738	-1,958,273	13.00	-16,715,969
Actuarial Gain	07/01/2008	15	-204,179,457	-22,087,216	14.00	-196,659,621
Actuarial Loss	07/01/2009	15	457,336,004	49,472,553	15.00	457,336,004
Plan Amendments	07/01/2009	15	2,239,982	242,311	15.00	2,239,982
Total				\$98,035,202		\$808,339,698

^{*} Level dollar amount. The outstanding July 1, 2004 amortization bases were combined into a single amortization base and amortized over 15 years.

EXHIBIT I

Section 415 Limitations

Section 415 of the Internal Revenue Code (IRC) specifies the maximum benefits that may be paid to an individual from a defined benefit plan and the maximum amounts that may be allocated each year to an individual's account in a defined contribution plan.

A qualified pension plan may not pay benefits in excess of the Section 415 limits. The ultimate penalty for non-compliance is disqualification: active participants could be taxed on their vested benefits and the IRS may seek to tax the income earned on the plan's assets.

In particular, Section 415(b) of the IRC limits the maximum annual benefit payable at the Normal Retirement Age to a dollar limit of \$160,000 indexed for inflation. That limit is \$195,000 for 2009. Normal Retirement Age for these purposes is age 62. These are the limits in simplified terms. They must be adjusted based on each participant's circumstances, for such things as age at retirement, form of benefits chosen and after tax contributions.

Benefits in excess of the limits may be paid through a qualified governmental excess plan that meets the requirements of Section 415(m).

Legal Counsel's review and interpretation of the law and regulations should be sought on any questions in this regard.

Contribution rates determined in this valuation have not been reduced for the Section 415 limitations. Actual limitations will result in gains as they occur.

EXHIBIT J

Definitions of Pension Terms

The following list defines certain technical terms for the convenience of the reader:

Assumptions or Actuarial Assumptions:

The estimates on which the cost of the Plan is calculated including:

- (a) <u>Investment return</u> the rate of investment yield that the Plan will earn over the long-term future;
- (b) <u>Mortality rates</u> the death rates of employees and pensioners; life expectancy is based on these rates;
- (c) <u>Retirement rates</u> the rate or probability of retirement at a given age;
- (d) <u>Turnover rates</u> the rates at which employees of various ages are expected to leave employment for reasons other than death, disability, or retirement.

Normal Cost:

The amount of contributions required to fund the benefit allocated to the current year of service.

Actuarial Accrued Liability For Actives:

The equivalent of the accumulated normal costs allocated to the years before the valuation date.

Actuarial Accrued Liability For Pensioners:

The single sum value of lifetime benefits to existing pensioners. This sum takes account of life expectancies appropriate to the ages of the pensioners and the interest that the sum is expected to earn before it is entirely paid out in benefits.

Unfunded Actuarial Accrued Liability:

The extent to which the actuarial accrued liability of the Plan exceeds the assets of the Plan.

Amortization of the Unfunded

Actuarial Accrued Liability: Payments made over a period of years equal in value to the Plan's unfunded actuarial

accrued liability.

Investment Return: The rate of earnings of the Plan from its investments, including interest, dividends and

capital gain and loss adjustments, computed as a percentage of the average value of the fund. For actuarial purposes, the investment return often reflects a smoothing of the capital gains and losses to avoid significant swings in the value of assets from one

year to the next.

EXHIBIT K

Actuarial Balance Sheet

An overview of your Plan's funding is given by an Actuarial Balance Sheet. In this approach, we first determine the amount and timing of all future payments that will be made by the Plan for current participants. We then discount these payments at the valuation interest rate to the date of the valuation, thereby determining their present value. We refer to this present value as the "liability" of the Plan.

Second, we determine how this liability will be met. These actuarial "assets" include the net amount of assets already accumulated by the Plan, the present value of future member contributions, the present value of future Department normal cost contributions, and the present value of future Department amortization payments or credits.

Actuarial Balance Sheet

Ass	<u>sets</u>	June 30, 2009	June 30, 2008	
1.	Total actuarial value of assets	\$7,248,721,252	\$7,247,853,233	
2.	Present value of future contribution by members	437,346,867	379,230,772	
3.	Present value of future Department contributions for:			
	(a) entry age normal cost	912,957,861	786,908,776	
	(b) unfunded actuarial accrued liability	808,339,698	371,249,702	
4.	Total current and future assets	\$9,407,365,678	\$8,785,242,483	
Lia	bilities	June 30, 2009	June 30, 2008	_
5.	Present value of benefits for retirees and beneficiaries:	\$4,093,375,132	\$4,025,238,520	
6.	Present value of benefits for terminated vested members:	161,317,313	148,096,063	
7.	Present value of benefits for active members:	5,152,673,233	4,611,907,900	
8.	Total liabilities	\$9,407,365,678	\$8,785,242,483	

EXHIBIT L

Reserves and Designated Balances

		June 30, 2009	June 30, 2008
1.	Reserve for retirement allowance for retired members	\$4,349,943,957	\$4,240,797,538
2.	Contribution accounts:		
	(a) Members (excluding additional contributions)	981,972,302	880,343,492
	(b) Department of Water and Power	(1,081,913,152)	(1,038,834,320)
3.	General Reserve and Reserve for Investment Gains and Losses*	<u>1,638,037,955</u>	2,324,880,110
4.	Total	\$5,888,041,062	\$6,407,186,820

^{*}Out of the total General Reserve and Reserve for Investment Gains and Losses, \$69,241,414 and \$56,988,778 are not included as valuation assets as of June 30, 2008 and June 30, 2009, respectively.

EXHIBIT M

Adjusted Reserves

Each year the Retirement Board adjusts its retired reserves to agree with the value calculated during the valuation. The following table presents the required transfers.

<u>Ad</u>	justed Reserves	June 30, 2009	June 30, 2008
1.	Retired reserve balance	\$4,349,943,957	\$4,240,797,538
2.	Actuarially computed present value	4,093,375,132	4,025,238,520
3.	Actuarial gain (loss): (1) – (2)	256,568,825	215,559,018
4.	Transfer from (to) DWP contribution accounts from retired reserves:	(256,568,825)	(215,559,018)

EXHIBIT I		
Summary of Actuarial Valuation Results		
The valuation was made with respect to the following data supplied to us:		
1. Retired members as of the valuation date (including 2,139 beneficiaries in pay status)		8,505
2. Members inactive during year ended June 30, 2009 with vested rights*		1,742
3. Members active during the year ended June 30, 2009		8,868
The actuarial factors as of the valuation date are as follows:		
1. Normal cost		\$154,425,889
2. Present value of future benefits		9,407,365,678
3. Present value of future normal costs		1,350,304,728
4. Actuarial accrued liability		8,057,060,950
Retired members and beneficiaries	\$4,093,375,132	
Inactive members with vested rights*	161,317,313	
Active members	3,802,368,505	
5. Actuarial value of assets (\$5,698,877,784 at market value as reported by Retirement Office)		7,248,721,252
6. Unfunded actuarial accrued liability		\$808,339,698

^{*}Includes terminated members due a refund of employee contributions.

EXHIBIT I (continued)

Summary of Actuarial Valuation Results

The determination of the required contribution is as follows:	Dollar Amount	% of Payroll
. Total normal cost	\$154,425,889	19.18%
2. Expected employee contributions	<u>-50,209,794</u>	<u>-6.24%</u>
3. Employer normal cost: (1) + (2)	\$104,216,095	12.94%
Amortization of unfunded actuarial accrued liability	98,035,202	12.18%
5. Total required contribution: (3) + (4), adjusted for timing*	\$210,341,349	26.12%
5. Employer match (110% of (2)), adjusted for timing*	57,440,004	7.13%
7. Greater of (6) employer match or (5) total required contribution	\$210,341,349	
3. Projected payroll	\$805,137,795	

^{*}Required contribution is assumed to be paid at the middle of every year.

EXHIBIT II

Supplementary Information Required by the GASB – Schedule of Employer Contributions

Plan Year Ended June 30	Annual Required Contributions	Annual Pension Cost	Actual Contributions	Actual Contributions/ Annual Required Contributions	Actual Contributions/ Annual Pension Cost
2001	\$0	\$5,378,281	\$25,763,218		479.0%
2002	0	6,132,578	27,241,801		444.2%
2003	40,910,999	47,823,973	40,560,882	99.1%	84.8%
2004	44,128,205	50,773,126	55,804,924	126.5%	109.9%
2005	80,784,677	87,615,788	75,490,143	93.4%	86.2%
2006	110,268,590	116,651,020	101,556,257	92.1%	87.1%
2007	134,504,482	140,328,366	129,154,539	96.0%	92.0%
2008	134,651,427	140,061,851	141,862,126	105.4%	101.3%
2009	141,291,588	146,768,605	145,941,275	103.3%	99.4%
2010	210,341,349	215,787,754			

EXHIBIT III

Supplementary Information Required by the GASB – Schedule of Funding Progress

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) (b)	Unfunded/ (Overfunded) AAL (UAAL) (b) - (a)	Funded Ratio (a) / (b)	Projected Covered Payroll (c)	UAAL as a Percentage of Covered Payroll* [(b) - (a)] / (c)
07/01/2000	\$5,605,856,078	\$5,082,960,078	-\$522,896,000	110.29%	\$368,000,000	0.00%
07/01/2001	5,833,274,582	5,306,262,736	-527,011,846	109.93%	403,265,472	0.00%
07/01/2002	5,790,262,948	5,714,524,649	-75,738,299	101.33%	430,397,884	0.00%
07/01/2003	6,128,375,723	6,042,086,785	-86,288,938	101.43%	527,787,469	0.00%
07/01/2004	6,251,421,125	6,421,813,922	170,392,797	97.35%	581,038,783	29.33%
07/01/2005	6,331,047,528	6,763,079,839	432,032,311	93.61%	616,270,095	70.10%
07/01/2006	6,447,763,436	7,046,571,241	598,807,805	91.50%	635,728,131	94.19%
07/01/2007	6,864,084,006	7,467,285,349	603,201,343	91.92%	670,372,663	89.98%
07/01/2008	7,247,853,233	7,619,102,935	371,249,702	95.13%	708,731,840	52.38%
07/01/2009	7,248,721,252	8,057,060,950	808,339,698	89.97%	805,137,795	100.40%

^{*} Not less than zero

EXHIBIT IV

Supplementary Information Required by the GASB

Valuation date	July 1, 2009
Actuarial cost method	•
	Entry Age Normal Cost Method
Amortization method Level dollar amortization	
Remaining amortization period	The July 1, 2004 Unfunded Actuarial Accrued Liability is amortized over a 15-year period commencing July 1, 2004. Any subsequent changes in Unfunded Actuarial Accrued Liability are amortized over separate 15-year periods effective with that valuation.
Asset valuation method	The market value of assets less unrecognized returns in each of the last five years. Unrecognized return is equal to the difference between the actual market returns and the expected returns on a market value basis, and is recognized over a five-year period.
Actuarial assumptions:	
Investment rate of return	8.00%
Inflation rate	3.75%
Projected salary increases	5.29% to 9.46%*
Cost of living adjustments	3.00% (actual increases are contingent upon CPI increases with a 3.00% maximum)
Plan membership:	
Retired members and beneficiaries receiving benefits	8,505
Terminated members entitled to, but not yet receiving benefits	1,742
Active members	<u>8,868</u>
Total	19,115

^{*}Includes inflation at 3.75%, "across the board" increases of 0.50%, plus merit and promotional increases. See Exhibit VI for these increases.

EXHIBIT V

Development of the Net Pension Obligation and the Annual Pension Cost Pursuant to GASB 27

Plan Year Ended June 30	Employer Annual Required Contribution (a)	Employer Amount Contributed (b)	Interest on NPO (c)	ARC Adjustment (h) / (e) (d)	Amortization Factor (e)	Pension Cost (a) + (c) - (d) (f)	Change in NPO (f) – (b) (g)	NPO Balance NPO + (g) (h)
2001	\$0	\$25,763,218	-\$10,973,809	-\$16,352,090	8.8887	\$5,378,281	-\$20,384,937	-\$165,733,590
2002	0	27,241,801	-12,512,869	-18,645,447	8.8887	6,132,578	-21,109,223	-186,842,813
2003	40,910,299	40,560,882	-14,106,614	-21,020,288	8.8887	47,823,973	7,263,091	-179,579,722
2004	44,128,205	55,804,924	-13,558,251	-20,203,172	8.8887	50,773,126	-5,031,798	-184,611,520
2005	80,784,677	75,490,143	-13,938,151	-20,769,262	8.8887	87,615,788	12,125,645	-172,485,874
2006	110,268,590	101,556,257	-13,022,666	-19,405,096	8.8887	116,651,020	15,094,763	-157,391,111
2007	134,504,482	129,154,539	-11,883,013	-17,706,897	8.8887	140,328,366	11,173,827	-146,217,285
2008	134,651,427	141,862,126	-11,039,390	-16,449,814	8.8887	140,061,851	-1,800,275	-148,017,560
2009	141,291,588	145,941,275	-11,175,312	-16,652,329	8.8887	146,768,605	827,330	-147,190,230
2010	210,341,349	210,341,349*	-11,112,848	-16,559,253	8.8887	215,787,754	5,446,405	-141,743,825

^{*} The amount indicated for June 30, 2010 assumes the actual employer contribution for the year is equal to the employer annual required contribution.

EXHIBIT VI

Actuarial Assumptions and Actuarial Cost Method

Mortality Rates:

After Service Retirement

and Pre-retirement: 1994 Group Annuity Mortality Table.

After Disability Retirement 1994 Group Annuity Mortality Table.

Termination Ra	ermination Rates before Retirement:			Rate (%)			
	Mort	ality*	Disa	bility	Total Wit	- hdrawal**	
Age	Male	Female	Male	Female	Male	Female	
25	0.066	0.029	0.006	0.000	6.550	9.250	
30	0.080	0.035	0.012	0.006	4.700	7.550	
35	0.085	0.048	0.012	0.036	3.250	5.850	
40	0.107	0.071	0.018	0.072	2.300	4.650	
45	0.158	0.097	0.030	0.102	1.700	3.410	
50	0.258	0.143	0.054	0.138	1.320	2.640	
55	0.443	0.229	0.126	0.168	1.020	2.200	
60	0.798	0.444	0.240	0.000	0.720	1.100	
65	1.454	0.864	0.000	0.000	0.000	0.000	

^{* 5%} of pre-retirement deaths are assumed to be duty related, with the remaining being non-duty related.

^{**} No withdrawal is assumed after a member is first assumed to retire. Ordinary withdrawal members are assumed to receive their account balance at termination. Vested withdrawal members are assumed to receive a deferred benefit from the plan. 65% of male terminations and 60% of female terminations are assumed to be ordinary withdrawals, with the remaining being vested withdrawals.

Retirement Rates:	Age	Under 30 Years of Service	Over 30 Years of Service
	50	0.00%	30.00%
	51	0.00	12.50
	52	0.00	12.50
	53	0.00	5.00
	54	0.00	5.00
	55	5.00	25.00
	56	3.00	12.50
	57	3.00	12.50
	58	3.00	12.50
	59	4.00	12.50
	60	4.00	15.00
	61	4.00	10.00
	62	4.00	10.00
	63	5.00	20.00
	64	5.00	20.00
	65	100.00	100.00

Retirement Age and Benefit for Inactive

Vested Participants:	A liability is determined for (a) an immediate refund of employee normal contribution accounts plus department matching contribution accounts and (b) a deferred benefit at age 60. The plan liability is the greater of these two calculations.
Definition of Active Members:	First day of biweekly payroll following employment for new department employees or immediately following transfer from other city department.
Unknown Data for Members:	Same as those exhibited by Members with similar known characteristics. If not specified, Members are assumed to be male.
Percent Married/Domestic Partner:	90% of male participants and 75% of female participants are assumed to be married at pre-retirement death or retirement. Spousal gender is assumed to be opposite that of the member.
Age of Spouse:	Females are 3 years younger than their spouses.

Future Benefit Accruals: 1.0 year of service per year.

Other Government Service: Members are assumed to purchase an additional 0.15 years of service per year.

Consumer Price Index: Increase of 3.75% per year; benefit increases due to CPI subject to 3.00% maximum.

Employee Contribution and

Matching Account Crediting Rate: 8.00%

Net Investment Return: 8.00%, net of administration and investment expenses.

Salary Increases: Annual Rate of Compensation Increase

Inflation: 3.75% per year, plus "across the board" salary increases of 0.50% per year, plus the following merit and promotional increases.

 Years of Service
 Increase

 0
 5.00%

 1
 4.00%

 2
 3.00%

 3
 2.00%

 4
 1.50%

 5 & Over
 1.00%

The merit and promotional increases are compounded with the sum of the inflationary and "across the board" salary increases.

Actuarial Value of Assets: The market value of assets less unrecognized returns in each of the last five years.

Unrecognized return is equal to the difference between the actual and expected returns on a market value basis and is recognized over a five year period. As directed by the Retirement Office, the actuarial value of assets may be reduced by an amount

classified as a non-valuation reserve.

SECTION 4: Reporting Information for The Water and Power Employees' Retirement Plan of the City of Los Angeles

Actuarial Cost Method:	Entry Age Normal Actuarial Cost Method. Entry Age equals attained age less years of service. Normal Cost and Actuarial Accrued Liability are calculated on an individual basis and are based on costs allocated as a level percent of salary, with Normal Cost determined as if the current benefit accrual rate had always been in effect.
Funding Policy:	The Department of Water and Power makes contributions equal to the Normal Cost adjusted by an amount to amortize any Surplus or Unfunded Actuarial Accrued Liability. Both the Normal Cost and the Actuarial Accrued Liability are determined under the Entry Age Normal Cost method. The July 1, 2004 Unfunded Actuarial Liability is amortized over a fifteen year period commencing July 1, 2004. Any subsequent change in Surplus or Unfunded Actuarial Accrued Liability are amortized over separate fifteen year periods. All amortization amounts are determined in equal dollar amounts over the amortization period. The Board may, by resolution, adopt a separate period of not more than thirty years to amortize the change in Surplus or Unfunded Actuarial Accrued Liability resulting from an unusual event, plan amendment or change in assumptions or methods. The Department of Water and Power contribution is not less than the matching contribution of 110% of member contributions.
Changes in Assumptions:	Starting with the July 1, 2009 valuation, in order to value the new optional survivor death benefit allowances, it is now assumed that 5% of all pre-retirement deaths are duty related.

EXHIBIT VII

Summary of Plan Provisions

This exhibit summarizes the major provisions of the LADWP included in the valuation. It is not intended to be, nor should it be interpreted as, a complete statement of all plan provisions.

Plan Year:	July 1 through June 30				
Census Date:	March 31				
Formula Retirement Benefit:					
Age & Service Requirement	Age 60 with 5 years of service				
	Age 55 with 10 years of service in the last 12 years				
	Any age with 30 years of service; or				
	Receiving permanent total disability benefits from the Plan.				
	Note: To be eligible, the employee must have worked or been paid disability four of the last five years immediately preceding eligibility to retire, or while eligible to retire.				
Monthly Amount	The greater of 2.1% of the Monthly Salary Base or \$9.50 per year of service. For those age 55 or older with 30 or more years of service the factor is 2.3% of the Monthly Salary Base.				
Monthly Salary Base	Equivalent of monthly average salary of highest continuous 26 biweekly payroll periods (one year).				
Cost of Living benefit	Based on changes to Los Angeles area consumer price index to a maximum of 3% per year.				
Money Purchase Annuity:	A monthly lifetime benefit equal in value to the employee normal contribution account plus Department matching contribution (current service contribution) account at retirement date.				

Minimum Benefit:

If the money purchase annuity amount exceeds the monthly amount of the formula retirement benefit and the retiree meets the eligibility requirements for the formula retirement benefit, the amount of the money purchase annuity is paid and the cost-ofliving and death after retirement continuance features of the formula retirement benefit are also paid.

Early Retirement Reduction Factors: The early retirement factor is determined by the attained age on the effective date of retirement. Every three months of attained age will affect the factor

Attained Age at Actual Retirement	Exact Age	+3 Months	+6 Months	+9 Months
48	.7150	.7225	.7300	.7375
49	.7450	.7525	.7600	.7675
50	.7750	.7825	.7900	.7975
51	.8050	.8125	.8200	.8275
52	.8350	.8425	.8500	.8575
53	.8650	.8725	.8800	.8875
54	.8950	.9025	.9100	.9175
55	.9250	.92875	.9325	.93625
56	.9400	.94375	.9475	.95125
57	.9550	.95875	.9625	.96625
58	.9700	.97375	.9775	.98125
59	.9850	.98875	.9925	.99625
60 & Over	1.0000			

The factor is 1.0000 for those retiring at age 55 or later with at least 30 years of service.

Member Normal Contributions:	If an employee became a plan member after May 31, 1984, the member normal contribution rate is 6% of pay.				
	If an employee became a plan member before June 1, 1984 or transferred from CERS with an entry age contribution rate, sample rates by entry age are as follows:				
	Entry Age	Rate			
	20 25	2.601% 3.102%			
	30 35	3.611% 4.161%			
	40 45 50	4.742% 5.381% 6.042%			
	50 6.042% 55 6.762% 59 7.332%				
Contributions:	The Department of Water and P minimum of 110% of employee	lower makes actuarially based contributions that are a contributions.			
Disability:	Disability benefits are paid from the Disability Fund. However, if a member is receiving permanent and total disability benefits, the member may elect to retire. Other than a nominal amount, no service credit during disability is earned for the 2.1% formula; however, credit is earned during disability toward the \$9.50 minimum formula.				
	Other than a nominal amount, no 2.1% formula; however, credit i	o service credit during disability is earned for the			
Deferred Withdrawal Retirement F	Other than a nominal amount, no 2.1% formula; however, credit i formula.	o service credit during disability is earned for the			
Deferred Withdrawal Retirement F Age & Service Requirement	Other than a nominal amount, no 2.1% formula; however, credit i formula.	o service credit during disability is earned for the s earned during disability toward the \$9.50 minimum			
Deferred Withdrawal Retirement F Age & Service Requirement	Other than a nominal amount, no 2.1% formula; however, credit i formula. Benefit (Vested): Age 60 with one year of contrib	o service credit during disability is earned for the s earned during disability toward the \$9.50 minimum			

Death Before Retirement:					
Age and Service Requirement	None				
Amount	Refund of member contributions with interest.				
Age, Service and Type of					
Death Requirement	Any death of a member who is eligible for service retirement, but who has not yet retired or attained 25 years of service				
Amount	In lieu of the refund of member contributions with interest, the member's spouse may elect an immediate lifetime monthly allowance. The monthly allowance payable to the surviving spouse is the amount the spouse would have received had the member elected a full joint and survivor allowance.				
Age, Service and Type					
of Death Requirement	Duty death with 10 years of service, but prior to service retirement eligibility or attainment of 25 years of service				
Amount	In lieu of the refund of member contributions with interest, the member's spouse may elect either:				
	(a) A deferred lifetime monthly allowance commencing when the member would have been eligible for a service retirement or attained 25 years of service; or				
	(b) An immediate lifetime monthly allowance calculated with up to five years added to the member's age or service. This option is only available if the member has attained age 50 or attained 20 years of service.				
	The monthly allowance payable to the surviving spouse is the amount the spouse would have received had the member elected a full joint and survivor allowance.				
Death After Retirement:	50% of retiree's unmodified allowance continued to eligible spouse or domestic partner (reduced if difference in ages is greater than five years).				
Withdrawal of Contributions Bene (Ordinary Withdrawal):	Refund of employee contributions with interest				

SECTION 4: Reporting Information for The Water and Power Employees' Retirement Plan of the City of Los Angeles

Changes in Plan Provisions:

The following changes in Plan provisions have been recognized since the prior valuation.

Effective October 1, 2008, the Board adopted two additional optional survivor death benefit allowances for surviving spouses of members who died while on duty at the Department of Water and Power.

Effective July 1, 2008, the Board adopted a discretionary COLA that restores purchasing power to 90% for eligible retirees.

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