Exhibit DWP-300

CITY OF LOS ANGELES

DEPARTMENT OF WATER AND POWER

2017 Reform of Electric Transmission Tariff and Electric Transmission Rates	DIRECT TESTIMONY IN SUPPORT OF DEPRECIATION RATES

NANCY HELLER HUGHES, ASA, CDP

Director, NewGen Strategies and Solutions, LLC

Witness for the

Los Angeles Department of Water and Power,

Power System

January 13, 2017

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DWP-302 LADWP Depreciation Study Based on Electric Plant in Service at June 30, 2015

INTRODUCTION

Q. PLEASE STATE YOUR NAME, OCCUPATION, AND BUSINESS ADDRESS.

A. My name is Nancy Heller Hughes. I am a Director at NewGen Strategies and Solutions, LLC ("NewGen"). My business address is 20014 Southeast 19th Street, Sammamish, Washington 98075.

Q. PLEASE OUTLINE YOUR EDUCATIONAL BACKGROUND.

A. I graduated from the University of Chicago with a Bachelor's Degree in Business and Statistics in 1977. I received a Master's Degree in Business Administration at the University of Chicago in 1978.

Q. PLEASE SUMMARIZE YOUR PROFESSIONAL EXPERIENCE.

A. From 1977 through 1982, I was employed by Ernst & Ernst (now Ernst & Young), working primarily on telecommunications regulatory matters before the Federal Communications Commission ("FCC"). From 1982 through 2012, I was employed by R. W. Beck, Inc. (R. W. Beck), an engineering and consulting firm that provided services in the energy and water resources utility industry. I held positions with increasing responsibilities and was an owner in R. W. Beck until July 2009, when R. W. Beck was acquired by Scientific Applications International Corporation ("SAIC"). In June 2012, I left SAIC to form my own independent consulting firm called Heller Hughes Utility Consulting, LLC. In September 2012, I became an owner and director in NewGen.

A substantial part of my work involves depreciation and valuation issues. I have performed depreciation studies for utilities and reviewed depreciation studies filed by utilities in rate proceedings. I have testified on depreciation, valuation, and other rate and regulatory

issues before the Federal Energy Regulatory Commission ("FERC"), state regulatory commissions, and courts of law. A copy of my resume and record of testimony is provided in Exhibit DWP-301 to this testimony.

Q. DO YOU HAVE ANY PROFESSIONAL CERTIFICATIONS?

A. Yes. I am a Certified Depreciation Professional ("CDP"), certified by the Society of Depreciation Professionals. I am also an Accredited Senior Appraiser ("ASA") of public utility property certified by the American Society of Appraisers.

Q. ON WHOSE BEHALF ARE YOU PRESENTING TESTIMONY IN THIS PROCEEDING?

A. I am presenting testimony on behalf of the Los Angeles Department of Water and Power ("LADWP").

PURPOSE AND SCOPE

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?

A. The purpose of my testimony is to summarize and support the results of the depreciation study that NewGen performed in 2016 for LADWP to determine the recommended annual depreciation accrual rates based on LADWP's plant in service as of June 30, 2015 (hereinafter referred to as the "2016 Depreciation Study"). A copy of the 2016 Depreciation Study is attached to my testimony as Exhibit DWP-302.

Q. WHAT WAS THE SCOPE OF THE 2016 DEPRECIATION STUDY NEWGEN PERFORMED FOR LADWP?

A. NewGen was retained by LADWP to perform a depreciation study of all depreciable electric plant in service owned by LADWP as of June 30, 2015. The scope of work for the

depreciation study included the Navajo Generating Station ("NGS") and Palo Verde Nuclear Generation Station ("PVNGS") in which LADWP had an ownership interest. The scope of work for the depreciation study also excluded the Hoover Power Plant, Intermountain Power Plant, and Apex Generating Plant. Although LADWP has contracts to receive energy from these power plants, LADWP does not have an ownership interest in these plants; therefore, the plants were not included in the scope of the depreciation study. On July 1, 2016, LADWP sold its 21 percent ownership share in NGS; therefore, NGS was not included in the scope of the depreciation study.

Q. DID THE SCOPE OF THE 2016 DEPRECIATION STUDY INCLUDE THE ESTIMATION AND RECOVERY OF FUTURE POWER PLANT DISMANTLEMENT COSTS?

A. No. At LADWP's direction, the scope of work for the 2016 Depreciation Study excluded power plant dismantlement costs. Therefore, the recommended depreciation rates in the 2016 Depreciation Study do not include recovery of power plant dismantlement costs through depreciation expense; however, the 2016 Depreciation Study recommends that LADWP perform a dismantlement cost study in the future to estimate the cost to dismantle its generating units upon retirement, net of salvage value.

Q. DO LADWP'S EXISTING DEPRECIATION RATES INCLUDE THE RECOVERY OF POWER PLANT DISMANTLEMENT COSTS?

A. No. LADWP's existing depreciation rates do not include the recovery of power plant dismantlement costs through depreciation expense. Although LADWP's last depreciation study, performed in 2003 by another consulting firm, included power plant dismantlement

costs (i.e., terminal net salvage) in developing depreciation rates for production plant, LADWP did not implement this recommendation of the study. As confirmed by my review of LADWP fixed asset records, the existing depreciation rates for LADWP's production plant accounts do not include the recovery of power plant dismantlement costs.

Q. WHAT WAS YOUR ROLE IN PREPARING THE 2016 DEPRECIATION STUDY FOR LADWP?

A. I was the project manager for the 2016 Depreciation Study, responsible for directing all work on the study. I was also responsible for evaluating the analyses performed and determining the recommended depreciation parameters (i.e., average service lives, life spans, survivor curves, interim retirement rates, and net salvage rates) used to calculate the recommended depreciation accrual rates.

Q. DID YOU PERFORM FIELD REVIEWS OF LADWP FACILITIES IN CONNECTION WITH THE DEPRECIATION STUDY?

A. Yes. I conducted field reviews of the LADWP system on July 25–29, 2016. My review of the facilities was limited to a visual and external observation of the facilities for the purpose of the depreciation study, and was not of such depth as would be required to reveal conditions with respect to safety or to conformance with codes, permits, rules, or regulations. During the field review, I interviewed LADWP managers and staff responsible for the operation and maintenance of the utility's plant to get their input regarding the life characteristics of the utility plant and plans, procedures, and programs of the utility that may affect plant service lives and net salvage rates. This is an industry accepted method to perform field reviews for depreciation studies.

DEPRECIATION STUDY

Q. PLEASE DESCRIBE THE PROCESS NEWGEN USED TO DEVELOP THE RECOMMENDED ANNUAL DEPRECIATION RATES DESCRIBED IN EXHIBIT DWP-302?

A. NewGen used industry accepted depreciation methods to perform the 2016 Depreciation Study. The process NewGen used in the depreciation study to develop the recommended annual depreciation accrual rates for LADWP consisted of the following steps:

- Conduct field review and interviews with LADWP staff;
- Compile plant accounting data;
- Perform life analyses using the forecast (or life span) method for production plant and the survivor curve method for transmission, distribution, and general plant;
- Perform net salvage analyses;
- Prepare account narratives with recommended remaining life spans, interim retirement rates, and net salvage rates for LADWP's production plant and recommended average service lives, survivor curves, and net salvage rates for LADWP's transmission, distribution, and general plant accounts;
- Calculate recommended annual depreciation rates; and
- Prepare written report with summary schedules.

The above steps are described in greater detail in Section 4 of the depreciation study attached hereto as Exhibit DWP-302.

Q. WHAT METHOD OF DEPRECIATION DID YOU USE TO CALCULATE THE RECOMMENDED DEPRECIATION RATES FOR LADWP?

A. The annual depreciation accrual rates for the majority of LADWP plant were developed using the straight line method, broad group procedure, and remaining life technique, which is an industry accepted method for developing depreciation rates. The remaining life technique provides for the recovery of the undepreciated original cost of plant assets (i.e., net plant), adjusted for net salvage, over the remaining life of the property. The formula for computing the annual depreciation accrual using the remaining life technique is:

$$D = \frac{1 - NS - R}{RL}$$

where: D = depreciation accrual rate
NS = estimated net salvage ratio
R = depreciation reserve ratio
RL = average remaining life

The annual depreciation accrual rate is calculated as a percentage of gross plant and is applied to the gross plant investment on the utility's books.

Q. WERE ANY OTHER METHODS OF DEPRECIATION USED TO CALCULATE THE RECOMMENDED DEPRECIATION RATES FOR LADWP?

A. Yes. The sinking fund method was used to calculate depreciation accrual rates for depreciation groups that LADWP has historically depreciated using the sinking fund method. Under the Sinking Fund method, the annual depreciation accrual is equal to the annual annuity, based on the interest rate and service life of the assets, plus interest on the beginning-of-year depreciation reserve. Under the Sinking Fund method, the annuity rate (di) is equal to:

$$d_i = (1 - NS) \times \frac{I}{(1 + i)^L - 1}$$

where: NS = net salvage rate
i = interest rate
L = service life

The sinking fund annual accrual is equal to:

$$D = (d_i \times B) + (i \times U)$$

where: D = annual depreciation accrual
B = plant balance
U = beginning-of-year depreciation reserve

Compared to the straight line method, the sinking fund method produces lower early accruals and higher accruals in the later years; this is due to the increasing interest component on the reserve toward the end of the service life.

Approximately 16 percent of LADWP's depreciable gross plant investment is depreciated using the sinking fund method. The sinking fund method is not widely used by utilities today and was discontinued by LADWP for new investment in fiscal year (FY) 1992–1993. LADWP is phasing out the use of sinking fund depreciation over time as these plant accounts become fully depreciated. The process LADWP has in place to phase out the use of the sinking fund depreciation method is appropriate.

Q. PLEASE DESCRIBE THE ORGANIZATION OF THE 2016 DEPRECIATION STUDY REPORT PROVIDED IN EXHIBIT DWP-302.

A. The 2016 Depreciation Study attached hereto as Exhibit DWP-302 describes the analyses performed and basis for the recommended annual depreciation accrual rates. Section 1 of the study contains a summary of the depreciation study results and conclusions. Section 2 of the depreciation study provides a background on the depreciation methods used in the

study, while Section 3 provides an overview of the LADWP system. Section 4 describes the analyses that were performed in the study. Lastly, in Section 5, we provide detailed account narratives for each depreciable plant account that describe the basis for the recommended depreciation parameters. Summary schedules are provided after Section 5 showing the calculation of the recommended annual depreciation accrual rates based on the depreciation parameters recommended in the study. Other summary schedules compare the existing and proposed depreciation accrual rates and the factors used to develop those rates, and summarize other detailed information from the depreciation study.

Q. WHAT DEPRECIATION RATES DO YOU RECOMMEND FOR LADWP?

A. The depreciation rates I recommend for LADWP are shown in Summary Schedule 1 of the depreciation study.

Q. PLEASE EXPLAIN SUMMARY SCHEDULE 1.

A. Summary Schedule 1 consists of three parts. Schedule 1A shows the development of the recommended depreciation rates for production plant. Schedule 1B shows the development of the recommended depreciation rates for the mass property accounts, i.e., transmission, distribution, and general plant. Schedule 1B also shows the recommended depreciation rates for the sinking fund accounts, which are developed in Summary Schedule 2. Last, Schedule 1C lists items that were excluded from the depreciation study.

Q. WHY WERE ITEMS LISTED ON SCHEDULE 1C EXCLUDED FROM THE DEPRECIATION STUDY?

A. Referring to Schedule 1C, the relatively small investment LADWP has on its books related to the Hoover Power Plant was excluded because the Hoover Power Plant assets that

LADWP owns are not included in transmission or production rate base, and therefore are outside the scope of the depreciation study. The amounts identified on Schedule 1C as "Account 400 – Reserves" consist of depreciation reserve balances that have been on LADWP's books for many years, but have zero associated plant balances; therefore, the Account 400 reserve amounts were excluded from the depreciation study. The investment in Accounts 311 and 315 for the Mohave Power Plant are costs LADWP has incurred to decommission the Mohave Generating Station; these amounts do not represent investment in plant and thus were excluded from the depreciation study. Intangible Plant and Land and Land Rights were excluded from the depreciation study because LADWP's investment in these plant accounts do not include any depreciable assets.

Regarding the amounts identified on Schedule 1C as Retired Production Plant, during our analysis of LADWP plant accounting records, NewGen determined that the investment for several retired generating plants was still on the utility's books. The retired generating units were Harbor Units 3, 4, and 7; Haynes Units 3–6; and Valley Units 3 and 4. Because the generating units are retired, they were excluded from the scope of the depreciation study. I understand that LADWP has since retired the investment in these generating units from its books. It is also my understanding that these generating units were retired and removed from the plant and reserve balances in the computation of revenue requirements in LADWP's Open Access Transmission Tariff (OATT) FY 2014–2015 Cost of Service Study model, as discussed in the expert testimony of David Cohen on behalf of LADWP.

Finally, NewGen excluded from the scope of the depreciation study plant investment for asset locations and depreciation groups on LADWP's books that are fully depreciated on LADWP's books. These amounts are shown in Schedule 1C.

Q. WHAT IS THE EFFECT OF THE RECOMMENDED DEPRECIATION RATES ON LADWP'S ANNUAL DEPRECIATION EXPENSE?

A. As shown in Table 1 below, based on plant in service as of June 30, 2015, the recommended depreciation rates, if implemented, result in a $70,544,760 (15 percent) decrease in the total annual depreciation accrual for LADWP compared to the accrual at existing depreciation rates. A detailed comparison of the existing versus proposed depreciation rates by plant account is provided in Summary Schedule 3.

Table 1
Los Angeles Department of Water and Power
Comparison of Depreciation Rates and Annual Accruals

		Existing		Proposed		
Description	Original Cost at 06/30/15	Annual Rate	Annual Accrual	Annual Rate	Annual Accrual	Change in Accrual*
Steam Production						
Straight Line	$525,673,594	4.44%	$23,319,262	5.07%	$26,640,153	$3,320,892
Sinking Fund	3,496,257	5.04%	176,111	4.53%	158,263	(17,848)
Nuclear Production	589,592,812	2.86%	16,867,091	1.63%	9,636,059	(7,231,031)
Hydraulic Production						
Straight Line	655,132,438	2.73%	17,917,869	1.52%	9,942,388	(7,975,481)
Sinking Fund	31,820,803	4.58%	1,457,926	4.19%	1,334,566	(123,359)
Other Production	2,278,113,016	3.62%	82,401,526	3.32%	75,593,776	(6,807,750)
Transmission						
Straight Line	560,084,048	2.76%	15,465,189	1.81%	10,153,537	(5,311,652)
Sinking Fund	209,112,101	3.54%	7,393,024	3.43%	7,168,746	(224,279)
Distribution						
Straight Line	4,969,577,158	3.56%	177,150,977	2.73%	135,499,299	(41,651,677)
Sinking Fund	1,765,324,398	4.55%	80,339,153	4.18%	73,790,094	(6,549,059)
General Plant	888,228,101	3.00%	26,636,643	3.28%	29,125,421	2,488,778
Pacific Intertie (Transmission)						
Straight Line	134,820,043	2.21%	2,980,652	1.97%	2,662,580	(318,072)
Sinking Fund	38,953,782	3.75%	1,460,813	3.76%	1,463,525	2,712
Western Navajo (Transmission)						
Straight Line	46,884,406	2.03%	953,885	1.71%	801,752	(152,133)
Sinking Fund	27,466,254	5.01%	1,375,523	5.03%	1,382,358	6,835
Hoover (Transmission)						
Straight Line	19,371	3.11%	602	0.89%	171	(431)
Sinking Fund	843,445	4.34%	36,612	4.20%	35,409	(1,204)
	$12,725,142,027	3.58%	$455,932,857	3.03%	$385,388,097	($70,544,760)

*Note: Does not include annual accruals for new accounts or fully depreciated plant.

CONCLUSION

Q: DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

A: Yes.

Exhibit DWP-300

AFFIDAVIT OF NANCY HELLER HUGHES

State of WASHINGTON)

County of KING)

I, Nancy Heller Hughes, being duly sworn, depose and say that the statements contained in the prepared Direct Testimony of Nancy Heller Hughes, ASA, CDP, provided on behalf of the Los Angeles Department of Water and Power in these proceedings are true and correct to the best of my knowledge, information and belief, and I hereby adopt said testimony as if given by me in formal hearing, under oath.

Nancy Heller Hughes

SUBSCRIBED AND SWORN to before me

This 13 day of January, 2017

Notary Public
State of Washington
Randi Arnold
Commission Expires 11-1-17

NewGen Strategies & Solutions

Nancy Heller Hughes
Director
nhughes@newgenstrategies.net

Ms. Hughes has worked in the public utility industry since 1977 specializing in utility rates and regulation, depreciation, and valuation. She has testified as an expert witness on these issues before federal and state regulatory commissions, city councils and courts of law.

Ms. Hughes is an Accredited Senior Appraiser of utility property and has performed appraisal studies to determine the value of a wide range of utility property including electric, natural gas, water, wastewater, telecommunications and solid waste property. These studies have been performed in connection with the sale and acquisition of property, eminent domain cases, property tax issues, fixed asset inventory development and utility rate cases.

In addition, Ms. Hughes is a recognized expert on depreciation issues and has performed and critically evaluated depreciation studies for utilities across the U.S. She has also evaluated the appropriateness of decommissioning cost estimates and funding methodologies for nuclear and non-nuclear generating units. Ms. Hughes is a Certified Depreciation Professional (CDP) designated by the Society of Depreciation Professionals.

Ms. Hughes worked for R. W. Beck, Inc. from 1982 through 2012 and was an owner of the firm when it was acquired by SAIC in 2009. In 2012, Ms. Hughes joined NewGen Strategies and Solutions, LLC as a founding member.

Education

- B.A. in Business and Statistics, University of Chicago
- M.B.A. in Finance and Accounting, University of Chicago

Registration/Certifications

- Accredited Senior Appraiser (ASA), Public Utility Discipline, American Society of Appraisers
- Certified Depreciation Professional (CDP), Society of Depreciation Professionals

Experience

Depreciation Studies

- Depreciation Rate Study – Los Angeles Department of Water and Power, California
- Depreciation Rate Study – CPS Energy, San Antonio, Texas
- Expert Testimony, Depreciation – Confederated Salish and Kootenai Tribes, arbitration case
- Expert Testimony, Non-nuclear Power Plant Dismantlement Costs – Austin Energy, Austin, Texas
- Depreciation Rate Studies – Homer Electric Association, Alaska
- Depreciation Rate Studies – Kaua'i Island Utility Cooperative
- Depreciation Rate Studies – Tri-State Generation and Transmission Association, Inc., Westminster, Colorado
- Depreciation Rate Study – Golden Valley Electric Association, Alaska

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- Depreciation Rate Study – Department of Water, County of Kaua'i
- Expert Testimony, Depreciation – Lloyd, Gosselink, Blevins, Rochelle, Baldwin & Townsend, P.C. representing Texas Cities
- Depreciation Rate Study – Garland Power & Light, Garland, Texas
- Expert Testimony, Depreciation – Kaye Scholer, L.L.P., representing Connecticut Department of Public Utility Control
- Depreciation Rate Study – Freeport Electric, Freeport, New York
- Depreciation Rate Study – Salem Electric, Salem, Oregon
- Expert Testimony, Depreciation – Alaska Electric Generation and Transmission Cooperative, Inc.
- Expert Testimony, Depreciation and Fossil Dismantlement Study – Florida Municipal Power Agency
- Depreciation Rate Study, City Electric System – Key West, Florida
- Expert Testimony, Depreciation and Decommissioning – City Council of New Orleans, Louisiana
- Expert Testimony, Depreciation – North Carolina Municipal Power Agency No. 1 and Piedmont Municipal Power Agency

Appraisal Studies

- Appraisal Review Reports of Wansley, Scherer and Spruce Generating Stations – Exelon Corporation
- Appraisal of Electric Substation and Transmission Line Tap Facilities – Public Service Company of New Mexico
- Appraisal of Electric Distribution System Facilities – South San Joaquin Irrigation District, California
- Appraisal of Water System – City of Claremont, California
- Appraisal of Water System – City of Visalia, California
- Appraisal of Transmission and Distribution System at Wright-Patterson Air Force Base – Dayton Power & Light
- Appraisal of Linden Wind Energy Project – Southern California Public Power Authority
- Appraisal of Tieton Hydroelectric Project – Southern California Public Power Authority
- Appraisal of Southeastern Louisiana Water & Sewer Co. – St. Tammany Parish, Louisiana
- Appraisal Study of Kaua'i Electric – County of Kaua'i, Hawai'i
- Appraisal of Douglas-Hayfork 60-kV Electric Transmission Line – Trinity Public Utilities District, California
- Appraisal of Electric Distribution Facilities – Lafayette Utilities System
- Appraisal of Trans-Alaska Pipeline System – North Slope Borough, Alaska
- Appraisal of Electric Generating Plants – Duquesne Light Company, Pittsburgh, Pennsylvania
- Appraisal of Domestic Water, Irrigation and Wastewater Systems, City of Bend, Oregon
- Appraisal of Electric Distribution System – Kanab City, Utah

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- Valuation of Lake Tapps Municipal Water Rights – Cascade Water Alliance, Washington
- Appraisal of Electric Distribution Facilities – City of Lakewood, Washington
- Appraisal of Martins Creek and Sunbury Power Blocks – Access Leasing Corporation and Cypress Leasing Corporation
- Appraisal of Electric Distribution Property – City of Hermiston, Oregon
- Appraisal of Gas and Electric Utility Assets – Potomac Electric Power Company, Washington, D.C.
- Appraisal of Electric Transmission and Distribution Property – Clatskanie People's Utility District, Eugene, Oregon
- Appraisal of Electric Distribution Plant – City of Azusa, California
- Appraisal of Blackstone Station Steam Plant – Cambridge Electric Light Company, Cambridge, Massachusetts
- Appraisal of Electric Distribution Property – Eugene Water and Electric Board and Springfield Utility Board, Oregon
- Appraisal of Electric Distribution Property – Emerald People's Utility District, Eugene, Oregon
- Appraisal of Electric Distribution Property – Truckee-Donner Public Utility District, California
- Appraisals of Natural Gas and Electric Utility Property – City of Meriden, Connecticut
- Appraisal of Solid Waste Landfill – Arkansas State Highway Department

Record of Testimony Submitted by

Nancy Heller Hughes, ASA, CDP

Utility	Proceeding	Subject of Testimony	Before	Client	Date
1. Southwest Power Pool, Inc.	Docket No. ER16-204-001	Depreciation	Federal Energy Regulatory Commission	Tri-State Generation and Transmission Association, Inc.	9/16
2. Golden State Water Company	Case No. BC566125	Eminent Domain, Right to Take Phase - Financial Feasibility	Superior Court of the State of California, County of Los Angeles	City of Claremont, CA	7/16
3. Golden Valley Electric Association	U-15-104	Depreciation	Regulatory Commission of Alaska	Golden Valley Electric Association	8/15
4. Public Service Company of Colorado	Docket No. 15AL-0233E	LED Street Light Tariff	Colorado Public Utilities Commission	Municipal Intervenor Group	8/15
5. Exelon Corporation	Docket Nos. 29183-13 and 29184-13	Appraisal Review Reports Regarding Value of Power Plants in Sale and Leaseback Transactions	United States Tax Court	Exelon Corporation	5/15, 7/15
6. PPL Montana, LLC	AAA No. 77-198-00416-12	Kerr Hydroelectric Project Conveyance Price - Depreciation	American Arbitration Association	Confederated Salish and Kootenai Tribes of the Flathead Reservation	1/14
7. Austin Energy	Docket No. 40627	Non-Nuclear Generation Plant Dismantlement Cost	Public Utility Commission of Texas	Austin Energy	2/13
8. Public Service Company of Colorado	Docket No. 11AL-768E	Streetlight Tariff Issue	Public Utilities Commission of Colorado	Local Government Intervenors (12 Colorado cities and towns)	1/12
9. Chugach Electric Association, Inc.	Docket No. U-09-097	Depreciation	Regulatory Commission of Alaska	Homer Electric Association	2/10
10. Public Service Company of Colorado	Docket No. 09AL-299E	Streetlight Rates	Public Utilities Commission of Colorado	Local Government Intervenors (16 Colorado cities and towns)	10/09
11. AmerenCILCO, AmerenCIPS and AmerenIP	Docket Nos. 09-0306 thru 09-0311 Cons.	Streetlight Rates	Illinois Commerce Commission	City of Champaign and the Town of Normal, Illinois	9/09

Utility	Proceeding	Subject of Testimony	Before	Client	Date
12. Kaua'i Island Utility Cooperative	Docket No. 2009-0050	Depreciation	Hawai'i Public Utilities Commission	Kaua'i Island Utility Cooperative	6/09
13. Garland Power & Light	Docket No. 36439	Depreciation	Public Utility Commission of Texas	City of Garland, Texas, d/b/a Garland Power & Light	11/08
14. AmerenCILCO, AmerenCIPS and AmerenIP	Docket Nos. 07-0585 thru 07-0590 Cons.	Streetlight Rates	Illinois Commerce Commission	Cities of Champaign, Urbana, Decatur and Bloomington, and the Town of Normal, Illinois	3/08
15. Alyeska Pipeline Company (Trans-Alaska Pipeline System)	OAH No. 07-SARB-TAX	Property Tax Value	Alaska State Assessment Review Board	North Slope Borough, Fairbanks North Star Borough, City of Valdez	5/07
16. Chugach Electric Association, Inc.	Docket No. U-06-134	Depreciation	Regulatory Commission of Alaska	Homer Electric Association	3/07
17. AEP Texas Central Company	Docket 33309	Depreciation	Texas Public Utilities Commission	Cities Served by AEP Texas Central Company	3/07
18. AEP Texas North Company	Docket 33310	Depreciation	Texas Public Utilities Commission	Cities Served by AEP Texas North Company	3/07
19. Alyeska Pipeline Company (Trans-Alaska Pipeline System)	OAH No. 06-SARB-TAX	Property Tax Value	Alaska State Assessment Review Board	North Slope Borough, Fairbanks North Star Borough, City of Valdez	5/06
20. Entergy Gulf States, Inc.	Docket No. 00994490	Expropriation of Electric Distribution Facilities	15th Judicial District Court, Parish of Lafayette, Louisiana	Lafayette Utilities System	4/06
21. Aquila, Inc. d/b/a Aquila Networks-MPS and Aquila Networks–L&P	Case No. ER-2005-0436	Combustion Turbine Valuation	Missouri Public Service Commission	Aquila, Inc.	12/05
22. PSEG Power Connecticut, LLC	Case No. ER05-231-003	Depreciation	Federal Energy Regulatory Commission	Connecticut Department of Public Utility Control	9/05
23. Chugach Electric Association, Inc.	Docket No. U-04-102	Depreciation	Regulatory Commission of Alaska	Homer Electric Association	5/05

Utility	Proceeding	Subject of Testimony	Before	Client	Date
24. Alyeska Pipeline Company (Trans-Alaska Pipeline System)	OAH No. 05-0307-TAX	Property Tax Value	Alaska State Assessment Review Board	North Slope Borough, Fairbanks North Star Borough, City of Valdez	5/05
25. Qwest Corporation	Docket Nos. T-01051B-03-0454 and T-00000D-00-0672	Reproduction Cost New Less Depreciation Study	Arizona Corporation Commission	Qwest Corporation	5/04, 12/04
26. AEP Texas Central Company	PUC Docket No. 28840	Depreciation	The Public Utility Commission of Texas	Cities served by AEP Texas Central Company	2/04
27. Chugach Electric Association, Inc.	Docket No. U-01-108	Depreciation	Regulatory Commission of Alaska	Homer Electric Association, Inc.	7/02
28. Connecticut Light & Power Company and Yankee Gas Services Company	Docket No. (X07) CV-95-0072561-S	Property Tax Value	Superior Court of the State of Connecticut, Judicial District of Tolland	City of Meriden, Connecticut	1/01
29. Pennsylvania Power & Light, Inc.		Fair Market Value of Two Power Blocks	Arbitration Panel	Access Leasing Corp. and Cypress Leasing Corp.	1/99
30. U S WEST Communications, Inc.	Docket No. T-1051B-99-105	Reproduction Cost New Less Depreciation Study	Arizona Corporation Commission	U S WEST Communications, Inc.	1/99, 6/00
31. Chugach Electric Association, Inc.	Docket No. U-97-107	Depreciation	Alaska Public Utilities Commission	Alaska Electric Generation & Transmission Cooperative	11/97
32. Municipal Electric Authority of Georgia	Docket No. 7967-U	Authority to Provide Telecommunications Services	Public Service Commission State of Georgia	Municipal Electric Association of Georgia	11/97
33. Southern California Edison	Case No. BC 093 146	Condemnation of Electric Distribution Plant	Superior Court of the State of California, County of Los Angeles	City of Azusa, California	2/95

Record of Testimony Submitted by Nancy Heller Hughes, ASA, CDP

Utility	Proceeding	Subject of Testimony	Before	Client	Date
34. Waste Management of Arkansas, Inc.	Case No. 93-0234	Landfill Condemnation	Circuit Court of Pulaski County, Arkansas	Arkansas State Highway Department	8/94
35. Chugach Electric Association	Docket No. U-93-15	Depreciation	Alaska Public Utilities Commission	Homer Electric Assn., Matanuska Electric Assn., and Alaska Electric Generation & Transmission Cooperative	8/93
36. U S WEST Communications, Inc.	Docket No. T-1051-93-183	Reproduction Cost New Less Depreciation Study	Arizona Corporation Commission	U S WEST Communications, Inc.	7/93
37. Jess Ranch Water Company	Application 92-01-034	Certificate of Public Convenience and Necessity	California Public Utilities Commission	Town of Apple Valley, California	4/93
38. Washington Natural Gas Company	Docket No. UG-920840	Revenue Attrition	Washington Utilities and Transportation Commission	Commission Staff	4/93
39. Pacific Gas and Electric Company	Case No. 213069	Street Light Condemnation	Superior Court of the State of California, County of Kern	City of Bakersfield, California	3/92
40. Pacific Gas and Electric Company	Case No. 393325-6	Street Light Condemnation	Superior Court of the State of California, County of Fresno	City of Fresno, California	9/91
41. Georgia Power Company	Docket No. 4007-U	Depreciation, Nuclear Decommissioning, Cost Allocation and Rate Design	Georgia Public Service Commission	U.S. Department of Defense	8/91
42. El Paso Electric Company	Docket No. 9945	Cost Allocation and Rate Design	Public Utilities Commission of Texas	U.S. Department of Defense	5/91
43. U S WEST Communications, Inc.	Docket No. T-1051-91-004	Reproduction Cost New Less Depreciation Study	Arizona Corporation Commission	U S WEST Communications, Inc.	1/91
44. System Energy Resources, Inc.	Docket No. ER89-678	Nuclear Decommissioning	Federal Energy Regulatory Commission	City of New Orleans	11/90 1/91
45. Alascom, Inc.	Docket No. U-87-25	Cost Allocation and Rate Design	Alaska Public Utilities Commission	U.S. Department of Defense	11/88

Record of Testimony Submitted by Nancy Heller Hughes, ASA, CDP

Utility	Proceeding	Subject of Testimony	Before	Client	Date
46. United Cities Gas Company	Docket No. 3799-U	Rate of Return and Capital Structure, Rate Design	Georgia Public Service Commission	U.S. Department of Defense	10/88
47. Louisiana Power & Light Company	Docket No. CD-86-11	Depreciation	City Council of New Orleans	City Council of New Orleans	12/87 3/88
48. Duke Power Company	First Proceeding in Arbitration	Depreciation, Purchased Capacity Rate	Mecklenberg County, North Carolina	North Carolina Municipal Power Agency No. 1, et al.	11/87 2/88
49. Sierra Pacific Power Company	Docket No. 86-557	Depreciation	Public Service Commission of Nevada	Commission Staff	3/87
50. System Energy Resources, Inc.	Docket No. ER82-616-030	Depreciation	Federal Energy Regulatory Commission	City Council of New Orleans	3/87
51. El Paso Electric Company	Docket No. ER86-368	Depreciation	Federal Energy Regulatory Commission	Imperial Irrigation District	8/86
52. Washington Natural Gas Company	Cause No. U-84-60	Revenue Attrition	Washington Utilities and Transportation Commission	Commission Staff	12/84
53. Anchorage Telephone Utility	Docket No. U-80-42	Access Charge Cost of Service and Rate Design	Alaska Public Utilities Commission	Municipality of Anchorage	3/81

Final Report | January 13, 2017

Depreciation Study
Based on Electric Plant in Service at June 30, 2015

Los Angeles Department of Water and Power
Power Division

Prepared by:

NewGen Strategies & Solutions

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Section 1
SUMMARY AND CONCLUSIONS

Introduction

NewGen Strategies and Solutions, LLC (NewGen) was retained by Los Angeles Department of Water and Power, Inc. (LADWP) to perform a depreciation study of electric plant in service as of June 30, 2015. This report summarizes the results of the depreciation study. Summary tables showing the recommended average service lives, survivor curves, net salvage rates, and resulting annual depreciation accrual rates are presented at the end of this section.

Acknowledgements

We appreciate the assistance of LADWP staff, whom provided data necessary to perform this depreciation study. A list of LADWP staff we interviewed during the depreciation study is provided in Appendix A.

Methodology

The annual depreciation accrual rates were developed using the Straight Line method, broad group procedure, and remaining life technique. The remaining life technique provides for the recovery of the undepreciated original cost of property (i.e., net plant), adjusted for net salvage, over the remaining life of the property.

The formula for computing the annual depreciation accrual rate using the remaining life technique is:

Remaining Life

$$D = \frac{1 - NS - R}{RL}$$

where:
- D = depreciation rate
- NS = estimated net salvage ratio
- R = depreciation reserve ratio
- RL = average remaining life

The annual depreciation accrual rate is calculated as a percentage of gross plant and is applied to the gross plant investment on the utility's books.

The Sinking Fund method was used to calculate depreciation accrual rates for plant accounts on LADWP's books that have historically been depreciated using the Sinking Fund method. The Sinking Fund method is not widely used by utilities today and was discontinued by LADWP for new investments in FY 1992–1993. The remaining sinking fund accounts represent approximately 9% of total net plant investment.

Section 2 of this report provides a background on depreciation, which explains the methodology used to develop the recommended annual depreciation accrual rates. Section 3 is a description of the LADWP system. Section 4 describes the specific analyses performed in the depreciation study and the information presented in the appendices. Section 5 provides account narratives describing the basis for the recommended depreciation parameters.

Summary of Results

Based on the analyses described in this report, we recommend several changes to LADWP's existing depreciation rates. Summary schedules are presented at the end of this section.

As shown in Table 1-1 below, based on plant in service as of June 30, 2015, the recommended depreciation rates, if approved, result in a $70,544,760 (15%) decrease in the total annual depreciation accrual for LADWP compared to the accrual at existing depreciation rates.

Table 1-1
Los Angeles Department of Water and Power
Comparison of Depreciation Rates and Annual Accruals

		Existing		Proposed		
Description	Original Cost at 06/30/15	Annual Rate	Annual Accrual	Annual Rate	Annual Accrual	Change in Accrual*
Steam Production						
Straight Line	$525,673,594	4.44%	$23,319,262	5.07%	$26,640,153	$3,320,892
Sinking Fund	3,496,257	5.04%	176,111	4.53%	158,263	(17,848)
Nuclear Production	589,592,812	2.86%	16,867,091	1.63%	9,636,059	(7,231,031)
Hydraulic Production						
Straight Line	655,132,438	2.73%	17,917,869	1.52%	9,942,388	(7,975,481)
Sinking Fund	31,820,803	4.58%	1,457,926	4.19%	1,334,566	(123,359)
Other Production	2,278,113,016	3.62%	82,401,526	3.32%	75,593,776	(6,807,750)
Transmission						
Straight Line	560,084,048	2.76%	15,465,189	1.81%	10,153,537	(5,311,652)
Sinking Fund	209,112,101	3.54%	7,393,024	3.43%	7,168,746	(224,279)
Distribution						
Straight Line	4,969,577,158	3.56%	177,150,977	2.73%	135,499,299	(41,651,677)
Sinking Fund	1,765,324,398	4.55%	80,339,153	4.18%	73,790,094	(6,549,059)
General Plant	888,228,101	3.00%	26,636,643	3.28%	29,125,421	2,488,778
Pacific Intertie (Transmission)						
Straight Line	134,820,043	2.21%	2,980,652	1.97%	2,662,580	(318,072)
Sinking Fund	38,953,782	3.75%	1,460,813	3.76%	1,463,525	2,712
Western Navajo (Transmission)						
Straight Line	46,884,406	2.03%	953,885	1.71%	801,752	(152,133)
Sinking Fund	27,466,254	5.01%	1,375,523	5.03%	1,382,358	6,835
Hoover (Transmission)						
Straight Line	19,371	3.11%	602	0.89%	171	(431)
Sinking Fund	843,445	4.34%	36,612	4.20%	35,409	(1,204)
	$12,725,142,027	3.58%	$455,932,857	3.03%	$385,388,097	($70,544,760)

*Note: Does not include annual accruals for new accounts or fully depreciated plant.

Recommendations

Based upon the studies, assumptions, considerations, and analyses described in this report, we recommend that:

1. LADWP implement the annual depreciation accrual rates set forth in Schedule 1.
2. LADWP establish procedures to improve data collection and reporting for retired assets so LADWP plant accountants have the information they need to properly record retirements.
3. LADWP retire generating units that are no longer in service from LADWP's plant and depreciation reserve accounts.
4. LADWP change to the Straight Line method of depreciation for the remaining plant accounts that are still depreciated using the Sinking Fund method, a method that is not in common use by utilities today.
5. LADWP perform a dismantlement cost study to estimate the cost to dismantle its generating units upon retirement, net of salvage value.
6. A review of LADWP's depreciation rates should be conducted every five to seven years, or more often if plant additions, retirements, changes in accounting practices, or other changes indicate that a review of the depreciation accrual rates would be appropriate.

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Section 2
BACKGROUND ON DEPRECIATION

Introduction

This section of the report is intended to provide a brief synopsis of the meaning of depreciation and briefly describe the procedures and methodologies that are often used to determine annual depreciation accrual rates.

The National Association of Regulatory Utility Commissioners (NARUC) defines depreciation as follows:

> "'Depreciation', as applied to depreciable utility plant, means the loss in service value not restored by current maintenance, incurred in connection with the consumption or prospective retirement of utility plant in the course of service from causes which are known to be in current operation and against which the utility is not protected by insurance. Among the causes to be given consideration are wear and tear, decay, action of the elements, inadequacy, obsolescence, and changes in the demand and requirements of public authorities."

In order to account for the loss in service value, depreciation accounting has been established to recover the capital associated with the plant in service over the plant's useful life. Depreciation accounting is simply the process of charging the book cost of depreciable property to operations over the plant's useful life. This process charges a portion of the capital dollars of the plant to depreciation expense on the income statement and the accumulation of the annual expenses into the accumulated provision for depreciation on the balance sheet. This accumulated provision for depreciation is an offset to plant in service in order to yield net plant. Therefore, over the useful life of any property, the original cost of the plant has been, in effect, amortized through the income statement and accumulated on the balance sheet until such time as the accumulated provision for depreciation is equal to the original cost of the plant.

Life Analysis

The Forecast or Life Span method of estimating service lives is employed for those classes of property that are comprised of a major single-location plant, such as an electric generation unit, which is expected to be retired as a single entity at a point-in-time. The Forecast method requires the estimation of the final retirement date of a unit of property. When using the Forecast method to estimate the average service life of a single location plant, it is appropriate to adjust the estimated life span to reflect an appropriate level of interim retirements. Interim retirement activity represents that portion of retirement dollar activity that is anticipated to occur over the life of a plant account that employs the Forecast method of depreciation. An example of this would be a generating plant that has an expected life span of 35 years. During this period, but prior to the ultimate retirement of the entire plant, there will be the need to replace items of the plant such as turbine blades, tubing, or other units of property. In order

to reflect the shorter life of these interim replacements, it is necessary to adjust the life span in order to recover 100% of the plant in service by the end of the overall plant life.

The Survivor Curve method is used to estimate the average service life and remaining life for mass property accounts (e.g., transmission, distribution, and general plant), which consist of a large number of property units that, even though similar, retire independent of each other at different ages. Survivor curves are used to show the statistical dispersion or frequency of retirements throughout the life of the property. A survivor curve can be depicted by a graph showing the number, or percentage, of units surviving at the beginning of each age interval.

The most well-known and generally accepted survivor curves are the Iowa Survivor Curves developed at Iowa State University. As shown in Figure 2-1, the survivor curve begins with the installation of plant in service at age zero (100% surviving) and ends with the ultimate retirement of the units (0% surviving).

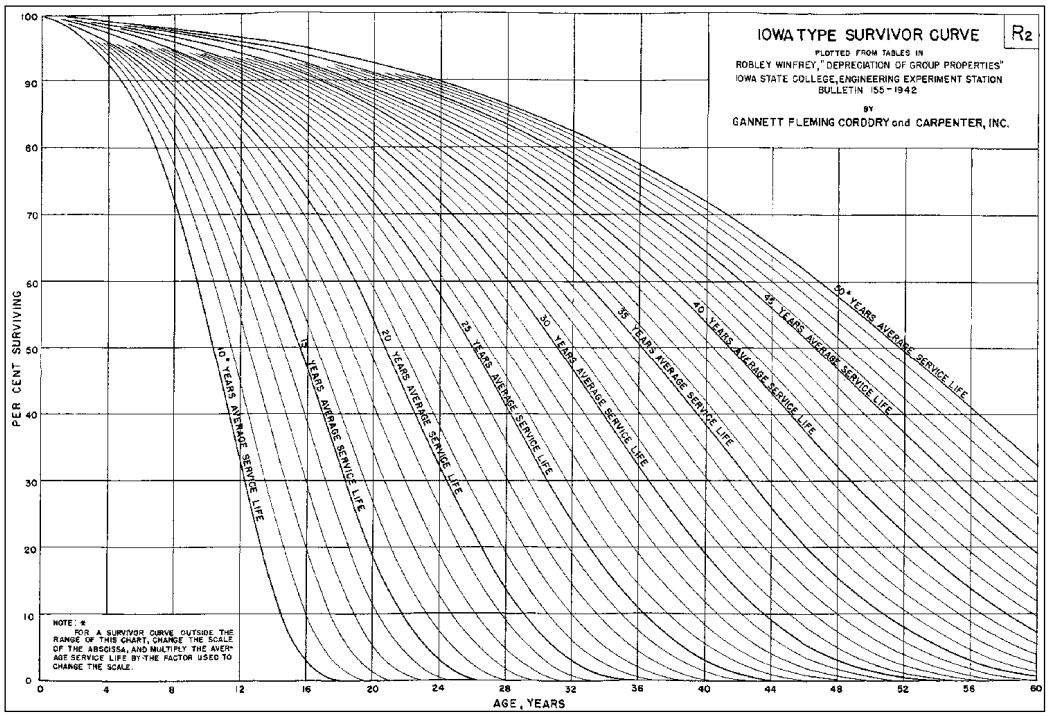

Figure 2-1. R2 Iowa Survivor Curve

In order to reflect the mortality characteristics of mass property accounts, it is not only necessary to establish an estimated average service life, but also the dispersion or survivor curve, which indicates the estimated pattern of retirements. Some property units in a plant account may retire soon after they are placed in service (e.g., a pole knock-down), while other property units may have lives stretching many years in excess of the average service life for the plant account. The pattern of retirements is an integral part of establishing the estimated remaining life associated with a particular plant account because the remaining life will either be extended or shortened in order to conform to the level of retirement activity that transpired earlier than, the same as, or later than the estimated average service life.

The development of the particular survivor curve and associated estimated average service life for each mass property plant account represents one of the more subjective areas of a depreciation analysis. There are various methods for determining the estimated average

service life and dispersion characteristics, depending on the data available. In general, the most accurate and reliable method of life analysis of mass property units is the Actuarial method. However, this method can be performed only when sufficient detailed historic retirement experience has been accumulated. In particular, it is necessary to know the specific age or vintage of the property at the time of its retirement and the age of the surviving plant.

When detailed vintage records are not available, the Simulated Plant Record (SPR) method can be used to estimate survivor curves and average service lives. As the name indicates, the SPR method relies on annual plant additions, retirements, and balances in order to identify a survivor curve and average service life that best describes or simulates historical experience.

There are, in general, two types of SPR methods: the Balances method and the Retirements method. In the Balances method, the SPR model determines the survivor curve and average service life that represent the property's retirement characteristics by retiring the vintage additions over time based on the retirement characteristics of successive curve types and calculating the simulated survivors. The survivor curve and average service life that produce the minimum sum of squared differences (SSD) when compared to the actual balances are considered the "best fit" curve and average service life selection. In the Retirements method, the definition of "best fit" is that which best estimates the total quantity of retirements over some period of time. Both methods require that sufficient retirement experience be available in order to select a survivor curve and average service life that best describes the mortality characteristics of a plant account.

Alex E. Bauhan developed a scale for interpreting the results of the SPR Balances method in 1947, which is shown in Table 2-1 below.[1]

Table 2-1
Scale for Evaluating Results of SPR Balances Method Model

	Conformance Index (CI)	Index of Variation (IV = 1000/CI)	Retirement Experience Index
Excellent	>75	0-13	>75
Good	50-75	13-20	50-75
Fair	25-50	20-40	33-50
Poor	0-25	>40	17-33
Valueless			0-17

The Conformance Index (CI) shown in Table 2-1 relates the SSD between the simulated and actual balances to the size of the account:

$$CI = \frac{Average\ Actual\ Balance}{\sqrt{(Average\ SSD)}}$$

[1] Alex E. Bauhan, "Life Analysis of Utility Plant for Depreciation Accounting Purposes by the Simulated Plant Record Method," 1947. See also *Public Utility Depreciation Practices*, NARUC, August 1996, page 96.

The Index of Variation (IV) shown in Table 2-1 above is equal to the reciprocal of the CI, multiplied by 1000. The IV is just another scale that can be used to evaluate the results of the SPR analysis. The highest-ranking curves are those with the lowest IVs.

The Retirement Experience Index (REI) is the percent of additions from the oldest vintage (or oldest significant vintage) that would have retired by the end of the most recent test year if the additions had retired per the specified survivor curve. An REI of 100% indicates that a complete curve was used in the simulation. The higher the REI, the greater the assurance that a unique curve pattern was used in the simulation.

Net Salvage Analysis

The recovery of the original cost investment is adjusted for the estimated net salvage value of the plant. "Net salvage" is equal to the gross salvage for the property less its cost of removal.

> "'Gross salvage' is defined as the amount recorded for property retired due to the sale, reimbursement, or reuse of the property. 'Cost of removal' refers to the costs incurred in connection with the retirement from service and the disposition of depreciable plant."

Due to the manner in which net salvage is calculated (gross salvage minus cost of removal), the resulting net salvage value can be either positive or negative. If gross salvage exceeds cost of removal, the net salvage is positive. On the other hand, if the cost of removal is greater than the gross salvage received in the process of retirement of an item of property, then the resulting net salvage value is negative.

Net salvage directly reduces (in the case of positive net salvage) or increases (in the case of negative net salvage) the dollars of plant to be depreciated over the service life of the plant. For example, if net salvage is a positive 10%, then the annual depreciation accrual rate over the plant's service life would need to recover 90% (i.e., 100% minus 10%) of the original cost of the plant. If net salvage is equal to negative 10%, then the annual depreciation accrual rate over the plant's service life would need to recover 110% (i.e., 100% plus 10%) of the original cost of the plant.

Annual Depreciation Accrual

Straight Line, Remaining Life Depreciation Method

Most of the annual depreciation accrual rates proposed in this study were developed based on the Straight Line, Remaining Life method of depreciation. This method provides for the recovery of the undepreciated original cost of property (i.e., net plant), adjusted for net salvage, over the remaining life of the property. The formula for computing the remaining life depreciation rate is:

$$D = \frac{1 - NS - R}{RL}$$

where:
- D = annual depreciation accrual
- NS = estimated net salvage ratio
- R = depreciation reserve ratio
- RL = average remaining life

The annual depreciation accrual rate is calculated as a percentage of gross plant and is applied to the gross plant investment on the utility's books.

Under the Remaining Life method of depreciation, any depreciation reserve imbalances are automatically reflected in the depreciation accrual calculation. For example, if too much depreciation has been recognized in the past, the depreciable balance to be recovered through future depreciation rates (i.e., the numerator in the remaining life calculation) is less and therefore, the annual depreciation rate will be less, all other things being equal.

Two examples of depreciation accrual calculations using the straight line, remaining life method are presented at the end of Section 2. The first is based on the Forecast Remaining Life method, which was used for the production plant accounts, and the second shows the Survivor Curve Remaining Life method, which was used for the transmission, distribution, and general plant accounts.

Sinking Fund Depreciation Method

LADWP primarily uses the Straight Line method of depreciation, but still has some older plant accounts on its books that are depreciated using the Sinking Fund method of depreciation. Under the Sinking Fund method, the annual depreciation accrual is equal to the annual annuity, based on the interest rate and service life of the assets, plus interest on the beginning-of-year depreciation reserve.[2]

Under the Sinking Fund method, the annuity rate (d_i) is equal to:

$$d_i = (1 - NS) \times \frac{i}{(1 + i)^L - 1}$$

where: NS = net salvage rate
i = interest rate
L = service life

The sinking fund annual accrual is equal to:

$$D = (d_i \times B) + (i \times U)$$

where: D = annual depreciation accrual
B = plant balance
U = beginning-of-year depreciation reserve

Compared to the Straight Line method, the Sinking Fund method produces lower early accruals and higher accruals in the later years; this is due to the increasing interest component on the reserve toward the end of the service life.

From inception through FY 1972–1973, all LADWP plant accounts were depreciated using the Sinking Fund method, except for general plant accounts that used a mix of both sinking fund and straight line depreciation. In FY 1973–1974, LADWP discontinued the use of sinking fund depreciation for all new plant accounts, in favor of using the Straight Line method of

[2] *Public Utility Depreciation Practices*, National Association of Regulatory Utility Commissioners, August 1996, pages 59-61.

depreciation. However, all existing sinking fund plant accounts continued to add new plant investment to their balances. In FY 1992–1993, all existing sinking fund plant accounts stopped adding new plant cost to their balances. LADWP is phasing out the use of sinking fund depreciation over time as these plant accounts become fully depreciated.

Schedule 2 shows the calculation of depreciation for LADWP plant accounts using the Sinking Fund method of depreciation.

Vintage Amortization Accounting

Vintage amortization accounting allows utilities to record the total cost of plant additions for the year as a vintage group and eliminates the record keeping requirements associated with individual items or property. The vintage group is amortized over the average service life for the account and the assets are retired as a group at the end of the amortization period. The use of vintage amortization accounting was approved for public utilities in Federal Energy Regulatory Commission (FERC) Accounting Release 15 effective January 1, 1997 for general plant Accounts 391 through 399 that are characterized as having high volume, lower value items. Accounts that use vintage amortization accounting are denoted by use of a square (SQ) survivor curve, which is equivalent to using a depreciation rate equal to 1/average service life.

Example No. 1
Forecast Remaining Life Method

Given:

Cost	$1,000
Retirement Date	10 years
Interim Retirement Rate	.005/year
Net Salvage	-10%
Depreciation Reserve	$475

Remaining Life Calculation:

Remaining Life (years)	Interim Retirement Rate	Adjusted Remaining Life (years)
(a)	(b)	(c)
10	.005	9.75

Columns (a), (b) : Estimated depreciation factors.
Column (c) : Column (a) x [1-[Column (a) x (Column (b))/2]].

Depreciation Accrual Rate Calculation:

Cost ($)	Net Salvage ($)	Depreciation Reserve ($)	Depreciable Balance ($)	Remaining Life (years)	Annual Accrual ($)	Annual Accrual (%)
(a)	(b)	(c)	(d)	(e)	(f)	(g)
1,000	-100	475	625	9.75	64.10	6.41

Columns (a), (c) : Utility's books and records.
Column (b) : Estimated net salvage value.
Column (d) : Column (a) – [Column (b) + Column (c)].
Column (e) : Column (c) of remaining life calculation.
Column (f) : Column (d)/Column (e).
Column (g) : Column (f)/Column (a).

Example No. 2
Survivor Curve Remaining Life Method

Given: Cost (Mid-year Addition)

1995	$800	Estimated Average Service Life	30
1998	$1,200	Estimated Iowa Curve	R2
2000	$600	Net Salvage	5%
2003	$700	Depreciation Reserve.....	$500
2004	$600		

Remaining Life Calculation:

Line No.	Year Installed	Age @ 12/31/04 (years)	Plant Investment ($)	Probable Life (years)	Remaining Life (years)	Weighted Dollar Years
	(a)	(b)	(c)	(d)	(e)	(f)
1	1995	9.5	$800	31.3	21.8	$17,440
2	1998	5.5	1,200	30.6	25.1	30,120
3	2000	4.5	600	30.5	26.0	15,600
4	2003	1.5	700	30.2	28.7	20,090
5	2004	.5	600	30.1	29.6	17,760
6	Total		$3,900			$101,010
7	Weighted Remaining Life					25.9 Years

Column (c) : Obtained from utility's books and records.
Column (d) : Probable life from R2-30 Iowa survivor curve at age given.
Column (e) : Column (d) – Column (b).
Column (f) : Column (c) x Column (e).
Line 7 : Line 6 [Column (f)/Column (c)].

Depreciation Accrual Rate Calculation:

Cost ($)	Net Salvage ($)	Depreciation Reserve ($)	Depreciable Balance ($)	Remaining Life (years)	Annual Accrual ($)	Annual Accrual (%)
(a)	(b)	(c)	(d)	(e)	(f)	(g)
3,900	195	500	3,205	25.9	123.75	3.17

Columns (a), (c) : Utility's books and records.
Column (b) : Net salvage rate (5%) x Column (a).
Column (d) : Column (a) – Column (b) – Column (c).
Column (e) : Line 7 of remaining life calculation.
Column (f) : Column (d)/Column (e).
Column (g) : Column (f)/Column (a).

Section 3
DESCRIPTION OF THE LADWP SYSTEM

LADWP is the largest municipal electric utility in the United States (U.S.) supplying more than 25 million megawatt-hours (MWh) of electricity per year to 1.4 million residential and business customers in the City of Los Angeles. LADWP's service area covers 465 square miles in the Los Angeles basin. LADWP began delivering electricity in the City of Los Angeles in 1916.

LADWP also provides electric service to over 5,000 customers in the Owens Valley, which is located approximately 250 miles north of Los Angeles in the Eastern High Sierra.

Electric Generation Plant

Appendix B is a summary of electric generation plant owned by LADWP. LADWP owns four thermal electric generating stations in the Los Angeles Basin: Haynes Generating Station (1,741 megawatts (MW) nameplate capacity), Scattergood Generating Station (1,434 MW), Valley Generating Station (690 MW), and Harbor Generating Station (548 MW). These generating stations include natural gas-fired steam generators, combined-cycle generating plants, and simple-cycle combustion turbines.

LADWP also owns the Castaic Power Plant, a 1,702-MW pumped storage hydroelectric plant located near Castaic, California, approximately 22 miles from the northern Los Angeles city limits, and 14 small hydroelectric power plants (257 MW total nameplate capacity) that operate as part of the Los Angeles Aqueduct System.

In addition, LADWP owns the Pine Tree Power Plant located north of Mojave, California, which includes wind (120 MW) and solar (8.5 MW) generation facilities. According to LADWP, the Pine Tree Wind Power Project is the largest municipally owned wind farm in the U.S. Other renewable energy generation owned by LADWP are the Adelanto Solar Power Plant (10 MW) located in the Los Angeles Basin and the Beacon Solar Project (250 MW), which was under construction at the study date.

In 2015, LADWP signed an agreement to sell its 21% ownership share (477 MW) in the coal-fired Navajo Generating Station, located near the Arizona-Utah border, to Salt River Project. The sale closed on July 1, 2016 and NewGen was informed by LADWP that the Navajo Generating Station was retired from LADWP's books on June 30, 2016. Because the Navajo Generating Station is no longer owned by LADWP, it was excluded from the scope of the depreciation study.

Finally, LADWP has a 5.7% direct ownership interest (242 MW nameplate capacity) in the Palo Verde Nuclear Generating Station (PVNGS), which consists of three nuclear generating units located approximately 50 miles west of Phoenix, Arizona.

Figure 3-1 is a map showing the approximate location of electric generation plants owned by LADWP. The power plants identified as "PP1" and "PP2" on Figure 3-1 are San Francisquito Power Plants 1 and 2, which are two of the larger small hydroelectric plants owned by LADWP.

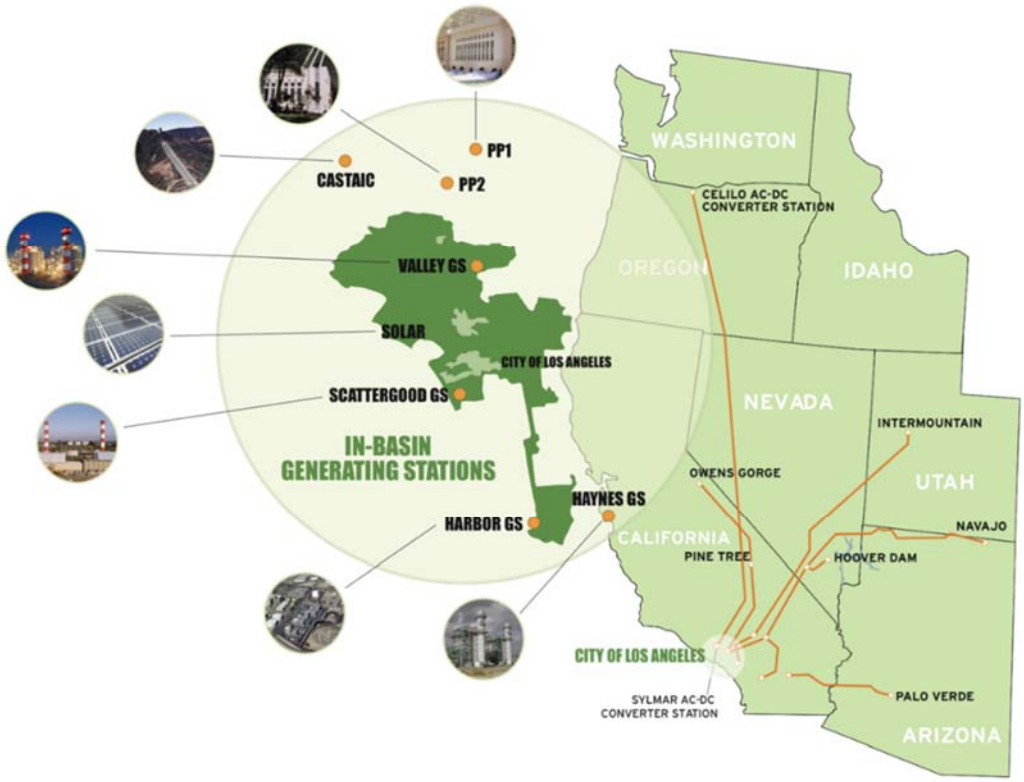

Figure 3-1. LADWP Generation Plant

Electric Transmission Plant

LADWP owns 3,507 miles of overhead transmission circuits (alternating current (AC) and direct current (DC)) on 15,452 transmission towers that span 5 Western states as shown in Figure 3-1. In addition, LADWP owns 124 miles of underground transmission circuits located in downtown Los Angeles and near the airport. The transmission system also includes 12 switching stations and 2 converter stations.

Table 3-1 shows a breakdown of LADWP transmission lines, by voltage level and number of circuit miles.

Table 3-1
LADWP Transmission Lines

Voltage Level	Number of Circuit Miles
500 kV DC	1,068
500 kV AC	1,056
345 kV	101
287 kV AC	343
230 kV AC	861
138 kV and 115 kV	203

Electric Distribution Plant

The LADWP distribution system operates at 34.5 kilovolts (kV) (2,100 circuit miles) serving large commercial and industrial customers, and 4.8 kV (7,770 circuit miles) serving mostly residential and small commercial customers.

LADWP's distribution assets include the following facilities:

- 7,216 miles of overhead distribution lines
- 3,665 miles of underground distribution cables
- 21 receiving stations
- 176 distributing stations
- 56,403 substructures
- 320,708 distribution utility poles
- 3,180 pole mounted capacity banks
- 127,314 distribution transformers
- 34,865 utilitarian streetlights (i.e., streetlights mounted on electric utility distribution poles)

General Plant

LADWP owns approximately 406 buildings located on 219 sites, with a total of 3,261,000 square feet. LADWP's downtown headquarters building, the John Ferraro Building, is recorded on the Water Division's books and the Power Division pays rent to the Water Division for its use of the building. Service centers (for vehicles, yards, and repair shops) are jointly owned by the Power and Water Divisions and allocated approximately 70% to Power and 30% to Water.

Other general plant facilities include office furniture and equipment; computer equipment; transportation equipment; stores equipment; tools, shop, and garage equipment; laboratory equipment; power operated equipment; communications equipment; and other miscellaneous equipment.

Power System Reliability Program

In 2007, in response to increasing outages statistics, LADWP initiated the Power Reliability Program (PRP) to assess the condition and reliability of distribution assets (poles, cross arms, line transformers, conductor, and station equipment) and establish a prioritized list of assets that needed replacement. In 2014, LADWP launched the Power System Reliability Program (PSRP) to expand the PRP to include all generation, transmission, substation, and distribution assets.

As part of the PSRP, LADWP established targets from 2015 through 2018 to complete major inspections at the thermal, hydro, and pumped storage generation plants; replace generation step-up and auxiliary transformers, as needed; replace 138-kV underground transmission

circuits; replace substation transformers and circuit breakers, as needed; and replace aging distribution poles, cross-arms, cables, line transformers, and substructures.

Section 4
ANALYSIS

Introduction

This section describes the analyses and work performed by NewGen to develop the recommended depreciation rates in this report. Figure 4-1 is an overview of the depreciation study process that NewGen follows to perform depreciation studies.

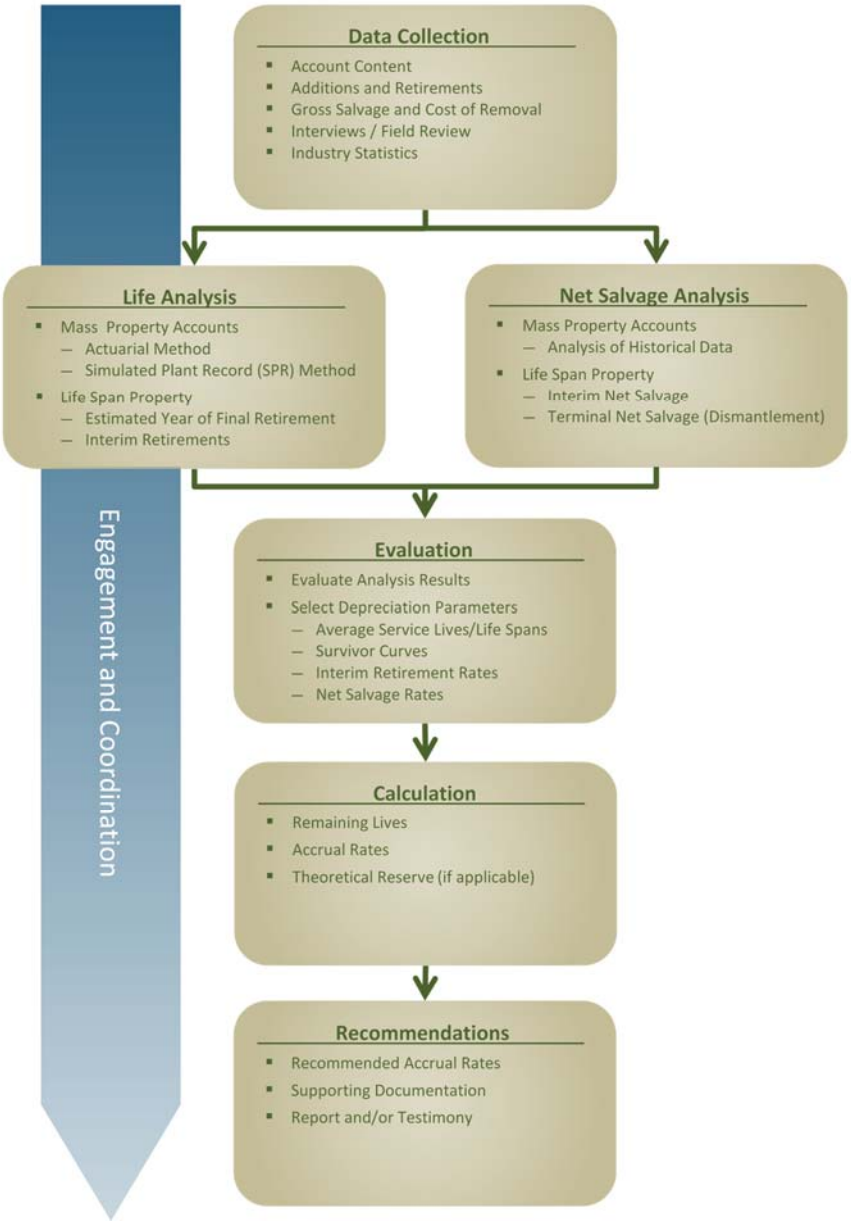

Figure 4-1. Depreciation Study Process

Plant Accounting Data

The first step in the depreciation study was to compile the depreciation database consisting of the annual additions, retirements, and balances by year for each depreciable plant account. The primary sources of data relied upon were:

- Listing of annual additions, retirements, and balances by FERC plant account, LADWP Prima account, general ledger account, and depreciation group for fiscal years 1976 through 2015 provided by LADWP.
- Schedule of LADWP plant cost and reserve for accumulated depreciation as of June 30, 2015 by FERC plant account, general ledger account, and depreciation group.
- Listing of annual gross salvage and cost of removal by functional class for FYs 1994 through 2015.
- List of LADWP existing depreciation rates, average service lives, survivor curves (if applicable), and net salvage rates by depreciation group.

Depreciation study adjustments were made to the plant accounting data, as needed, to address transfers (which LADWP records as negative additions) and adjustments. Questions regarding the plant accounting data were investigated with the help of LADWP plant accountants.

Following are some of our observations concerning LADWP's plant accounting data.

Retired generating units still on books

NewGen's review of the plant accounting data found several generating units that were retired from service that still appeared on LADWP's books as plant in service. These units are Harbor 3, 4, and 7; Haynes Units 3–6; and Valley Units 3 and 4. Based on discussions with LADWP staff, it appears that when a generating unit is retired or repowered (i.e., the unit is decommissioned and replaced by a new generating unit), instead of recording the retirement as a credit to plant in service, LADWP increases the depreciation reserve to equal the plant balance. The result is that net plant for the generating unit is equal to zero, but the retired unit remains on the books of the utility. Further, LADWP continues to record any costs of retirement to the plant account. NewGen adjusted the depreciation database to exclude the plant balance and depreciation reserve for retired generation units from the depreciation database. Since bringing this issue to LADWP's attention, we understand that the generating units no longer in service were retired from LADWP's books.[3]

Not recording distribution plant retirements

To review the historical plant activity in a plant account, NewGen prepared graphs showing annual additions and retirements as a percent of the beginning year plant balance for each depreciable plant account; the annual plant balance is also plotted on the same graph. A copy of the plant additions and retirements graph for Account 364, Distribution Poles, Towers and Fixtures, is provided in Figure 4-2.

[3] In the Open Access Transmission Tariff (OATT) FY 2014-2015 Cost of Service Study model, it is NewGen's understanding that Harbor Units 3, 4, and 7; Haynes Units 3–6; and Valley Units 3 and 4 were retired and removed from the plant and reserve balances in the computation of revenue requirements.

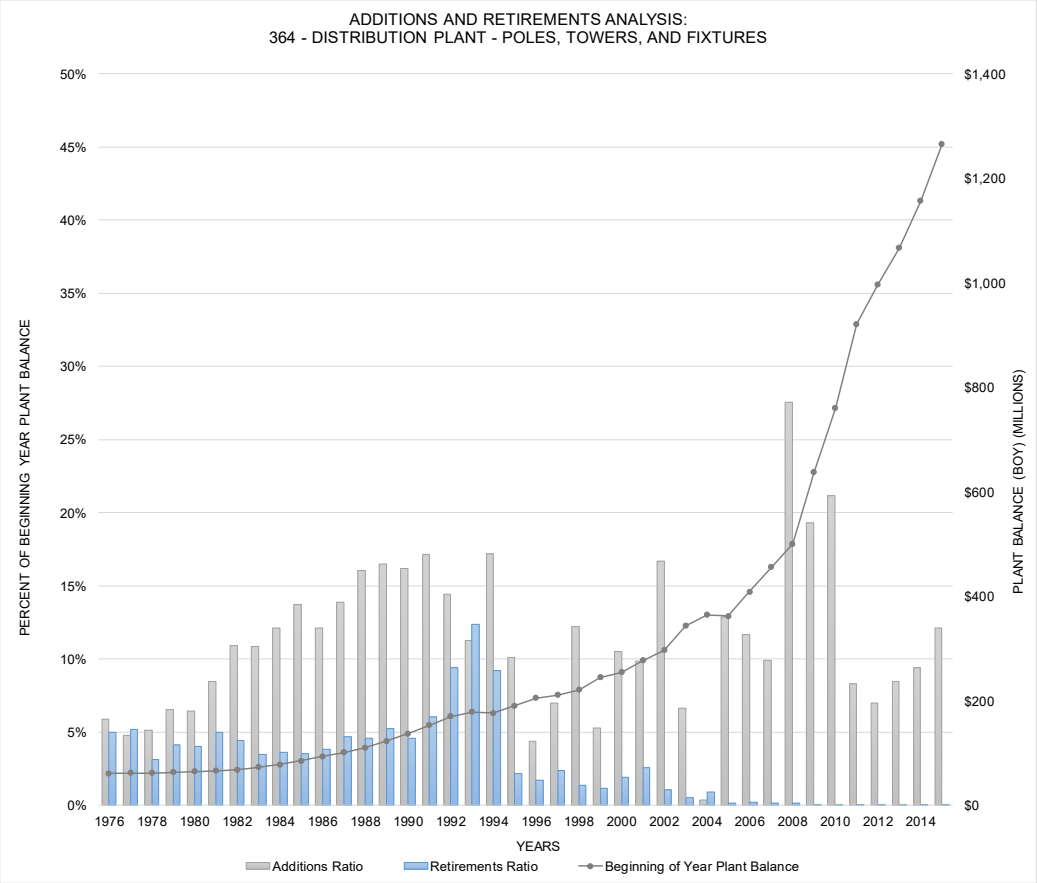

Figure 4-2: Additions and Retirements, Account 364 – Distribution Poles, Towers and Fixtures

As shown in Figure 4-2, the level of retirements recorded in Account 364 has decreased significantly since 1995 compared to earlier years. We observed a similar pattern of reduced retirement activity after 2000 for several other LADWP distribution plant accounts. The decline in retirement activity after 2000 was not as evident for the transmission plant accounts. LADWP plant accountants said the decrease in retirement activity is because they are not receiving the data required from operations personnel to identify and record retirements. We recommend that LADWP work to improve the process of reporting and recording retirements.

Field Review

NewGen conducted field reviews of the LADWP system on July 25-29, 2016. Our review of the facilities was limited to a visual and external observation of the facilities for the purpose of the depreciation study, and was not of such depth as would be required to reveal all conditions with respect to safety or to conformance with codes, permits, rules, or regulations. During the field review, we interviewed LADWP managers and staff responsible for the operation and maintenance of the utility's plant to get their input regarding the life characteristics of the utility plant and plans, as well as procedures and programs of the utility that may affect plant service lives and net salvage rates.

During the site visit, we also conducted in-office interviews with managers from various departments responsible for plant assets. The information we obtained from the field reviews and in-office interviews are incorporated in the Account Narratives in Section 5.

Life Analysis

The recommended average service lives were developed from 1) statistical life analyses; 2) information obtained during our field review and interviews with LADWP staff familiar with the operation and maintenance of plant facilities; 3) comparison data from other utilities; and 4) NewGen's knowledge and experience with similar facilities.

Generation Useful Life Analyses

NewGen performed actuarial life analyses using data from the SNL Energy database[4] to estimate the useful life of gas-fired steam-electric plants, gas turbines, combined-cycle plants, and hydroelectric plants of similar size to LADWP's generating units. The SNL Energy database is an industry recognized database that reports operating and financial data for over 9,000 U.S. power plants, including type of generating unit, capacity, location, ownership, in-service date, capacity additions, upgrades, and retirements.

In order to estimate the useful life of a generating unit using the actuarial method, NewGen determined the probability of retirement of a unit of a given age based upon historical retirements. The actuarial method we employed determines the estimated useful life of a generating unit by calculating the conditional probability that a unit will be retired from service at an age given that the unit has reached that age; then calculating the marginal probability of retirement at each age; and then determining the estimated useful life by weighting the marginal probability of retirement by the age of such retirement.

An example of the actuarial method applied to a hypothetical group of 100 units is shown in Table 4-1 below. In Table 4-1, column (a) is the age, column (b) is the number of units retired at each age, and column (c) is the number of units that reach each age and were exposed to the risk of retirement. Column (c) decreases as the age of the units increases, not only because a unit was retired but also because certain units still in operation had not attained a particular age. Column (d) represents the conditional probability of retirement and is the percentage resulting from dividing the number of units that were retired at a given age by the number of units that attained that age. Column (e) is the diminution of the number of units at each age of retirement and is expressed as a percentage of the total that survives each age. Column (f) is the marginal probability of retirement at a particular age. Column (g) is the weighting of the marginal probability of retirement at each age, the total of which yields the estimated useful life.

[4] SNL Energy is a subscription service, which provides regional energy market price forecasts; operational statistics for investor owned, municipal, and cooperative utilities in the U.S.; financial data for regulated utility companies; data on rate proceedings before state commissions and FERC; financial and operations data for over 9,000 U.S. power plants, and mergers and acquisition data.

Table 4-1
Example of Actuarial Method

Age	Units Retired at Each Age	Units Exposed to Risk of Retirement	Percent of Age That Retire (1)	Percent of Age That Survive (2)	Percent of Total That Retire (3)	Estimated Life (4)
(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	0	100	0.00	100.00	0.00	0.0000
2	0	98	0.00	100.00	0.00	0.0000
3	2	92	2.17	100.00	2.17	0.0651
4	0	85	0.00	97.83	0.00	0.0000
5	3	81	3.70	97.83	3.62	0.1810
6	0	77	0.00	94.21	0.00	0.0000
7	4	70	5.71	94.21	5.38	0.3766
8	0	62	0.00	88.83	0.00	0.0000
9	0	60	0.00	88.83	0.00	0.0000
10	2	56	3.57	88.83	3.17	0.3170
11	0	49	0.00	85.66	0.00	0.0000
12	0	45	0.00	85.66	0.00	0.0000
13	3	36	8.33	85.66	7.14	0.9282
14	1	29	3.45	78.52	2.71	0.3794
15	0	27	0.00	75.81	0.00	0.0000
16	3	22	13.64	75.81	10.34	1.6544
17	0	18	0.00	65.47	0.00	0.0000
18	4	12	33.33	65.47	21.82	3.9276
19	0	7	0.00	43.65	0.00	0.0000
20	1	1	100.00	43.65	43.65	8.7300
					Estimated Useful Life	16.5593

(1) Column (d) = Column (b) divided by Column (c) times 100.
(2) Column (e) = Column (e) of the previous age minus Column (f) of the previous age.
(3) Column (f) = Column (e) times Column (d) divided by 100.
(4) Column (g) = Column (a) times Column (f) divided by 100.

Table 4-2 shows the results of the generation useful life analyses for generating units within the California Independent System Operator (CAISO) region. NewGen performed the generation useful life analyses prior to the field review in order to use the results as an input in discussions with power plant managers regarding the estimated retirement year for LADWP's generating units. Copies of the generation useful life analyses for each type of generation technology are provided in the workpapers accompanying this depreciation study report.

Table 4-2
Generation Useful Life Analyses – Summary
CAISO Region

Generation Technology	Fuel Type	Nameplate Capacity (MW)	Expected Useful Life (Years)	Sample Size (Generating Units)	Total Retired Units Within Sample
Steam Turbine	Gas	160 - 265	57	13	7
Steam Turbine	Gas	445 - 535	53	4	0
Steam Turbine	Coal	730 - 880	38	2	2
Combustion Turbine (simple cycle)	Gas	50 - 190	36	69	13
Combustion Turbine (combined cycle)	Gas	50 - 265	33	64	11
Internal Combustion	Gas	1.5 - 20	42	177	13
Pumped Storage	Water	All Projects (0.1 - 477)	49	23	0
Small Hydro	Water	0.05 - 50	97	286	10

Interim Retirement Rate Analyses

The Forecast (or Life Span) method was used to determine the average service lives for the steam, nuclear, hydro, and other production plant accounts. The recommended life spans for LADWP's generating plants are discussed in Section 5 and shown in Appendix B. These life spans represent the overall life span of the generating units. However, as discussed in Section 2, when interim retirements are taken into consideration, the adjusted life span may be less than the overall life span of the generating unit.

Appendix C shows the interim retirement rate (IRR) analysis for LADWP's production plant accounts. The recommended IRR for each account was applied to the life span and remaining life span for each generating plant to determine the average service life and remaining life for each plant account by generating plant and/or depreciation group.

Interim additions were not included in the calculation of depreciation accrual rates for production plant because this involves a projection of future additions which may or may not occur, as opposed to interim retirements which involves the depreciation of investment that has already occurred. Including interim additions increases the depreciation accrual, all other things being equal, because the projected depreciable plant balance is higher due to the interim additions.

Simulated Plant Record Analysis

The SPR method was performed to estimate the survivor curves and average service lives for LADWP's transmission, distribution, and general plant accounts. A description of the SPR method is provided in Section 2, Background on Depreciation. NewGen performed the SPR analyses over the entire history of the plant account, using increasing 15-year, 20-year, 30-year, and 40-year experience bands ending with the study year (FY 2015). By varying the experience bands analyzed, it is possible to detect trends or changes in life characteristics over

the history of the plant account. Unfortunately, the results of the SPR analyses for most plant accounts produced poor curve fits to the historical data. We believe this is due to the low level of retirement activity recorded in many plant accounts, and in the case of distribution plant, the decrease in retirement activity since 1995–2000 discussed previously. As a result, NewGen relied extensively on information obtained during our field review of LADWP facilities and interviews with LADWP staff, industry depreciation statistics, and NewGen's knowledge and expertise performing depreciation studies to develop the recommended survivor curves and average service lives for LADWP's transmission, distribution, and general plant accounts.

Industry Depreciation Statistics

In addition to the life analyses described above, NewGen reviewed the average service lives and survivor curves used by other electric utilities in California, i.e., Southern California Edison (SCE), San Diego Gas & Electric (SDG&E), and Pacific Gas & Electric (PG&E).[5] These comparative data are shown in the account narratives for each plant account.

NewGen also reviewed the results of the 2012 survey of depreciation statistics for investor owned electric utilities published by Tangibl, a consulting firm that performs depreciation studies (hereinafter referred to as the "2012 Industry Survey"). The 2012 Industry Survey summarized depreciation data submitted by utility companies to FERC on Form 1 and Form 2 annual reports for the year ending December 31, 2012. Data from the 2012 Industry Survey is shown in the account narratives for each plant account.

The basis for the recommended life spans and interim retirement rates for production plant and average service lives and survivor curves for transmission, distribution and general plant is discussed in the detailed account narratives provided in Section 5 of this report.

Net Salvage Analyses

Net salvage data was available from 1994 through 2015 by plant function (e.g., steam production, hydroelectric production, other production, etc.). LADWP does not maintain net salvage data by individual plant account. The percentage of historical net salvage to retirements was analyzed by function on an annual, cumulative, and rolling band basis. A copy of the net salvage analyses is provided in Appendix D.

The recommended net salvage rates were developed based on our analysis of historical net salvage data, our experience and observations of the property during our field review of the property, discussions with LADWP staff knowledgeable about the property, and comparisons with the net salvage rates used by other electric utilities in California and industry survey data.

The recommended net salvage rates for production plant do not include the cost to dismantle the generating plant when it is retired. LADWP informed NewGen that its policy is to retire generating units in place unless the space is needed for another purpose. The scope of this depreciation study did not include estimating the dismantlement cost for LADWP's generating units.

[5] Depreciation rates for SCE, SDG&E, and PG&E are reviewed and approved by the California Public Utilities Commission (CPUC) as part of each utility's general rate case.

Steam Production Plant

As shown in the net salvage analysis for steam production plant, no plant retirements were recorded in 2009–2015, even though gross salvage and cost of removal amounts were recorded in these years. As discussed earlier, NewGen's review of the plant accounting data found several generating units that were retired from service which have not been retired from LADWP's books. Therefore, we ran the net salvage analysis for steam production plant for two different time periods, 1994–2015 (the full analysis period) and 1994–2008 (the period over which plant retirements were recorded). The total cumulative net salvage rate is equal to -1.08% for 1994–2015 and 1.14% for 1994-2008. Based on the results of both analyses, NewGen recommends a 0% net salvage rate for LADWP's steam production plant accounts.

Nuclear Production Plant

The cumulative net salvage experience for 1994–2015 equals -12.17%. Therefore, NewGen recommends a -12% net salvage rate for LADWP's nuclear production plant accounts.

Hydraulic Production Plant

Based on the results of the net salvage analysis, NewGen recommends a 0% net salvage rate for LADWP's hydraulic production plant accounts.

Other Production Plant

The net salvage analysis for other production plant shows that zero retirements have been recorded for other production plant since 2005. For this reason, we analyzed net salvage for other production plant over two time periods, 1994–2015 (the full analysis period) and 1994–2005 (the period over which plant retirements were recorded). However, depending on the time period analyzed, total cumulative retirements represent approximately 1% or less of total gross plant as of the study date, which is insufficient retirement experience to rely upon to estimate future net salvage. Therefore, NewGen recommends a 0% net salvage rate for LADWP's other production plant accounts.

Transmission Plant

Based on the results of the net salvage analysis for transmission plant provided in Appendix D, NewGen recommends a -6% net salvage rate for transmission plant accounts. This net salvage rate is reasonable compared to the net salvage rates used by SCE, SDG&E, and PG&E and industry survey data for transmission plant described in the individual account narratives in Section 5.

Distribution Plant

The net salvage analysis for distribution plant provided in Appendix D shows a significant decrease in the level of retirements recorded after 2001. As discussed previously, we were informed by LADWP plant accountants that the decrease in retirement activity is due to problems getting data from the field to identify and record plant retirements. However, the amount of negative net salvage reported on LADWP's books remained at similar or higher levels after 2001. The net salvage analysis over the entire analysis period (1994–2015) indicates very high negative net salvage rates that are overstated due to the under reporting of plant retirements. Therefore, NewGen separately evaluated the distribution plant net

salvage data for the period 1994–2001, which is also provided in Appendix D. Based on the analysis of net salvage data for 1994–2001, NewGen recommends a -29% net salvage rate for all distribution plant accounts, except Account 370, Meters, and Account 371, Installations on Customer Premises, where we recommend a 0% net salvage rate. The recommended net salvage rates are reasonable compared to the net salvage rates used by other California electric utilities and industry survey data for distribution plant shown in the individual account narratives in Section 5.

General Plant

The net salvage analysis for general plant provided in Appendix D indicates a 6% net salvage rate for general plant. This average net salvage rate is recommended for all general plant accounts, except for those accounts where based on the type of plant in the account and comparisons with other California electric utilities and industry survey data, we recommend a 0% net salvage rate. The recommended net salvage rates for each general plant account is shown in the account narratives in Section 5.

Dismantlement Costs

The recommended net salvage rates for production plant do not include dismantlement costs, also referred to as terminal net salvage. LADWP informed NewGen that its policy is to retire generating units in place and not dismantle the units unless the space is needed to install new generation. For example, Scattergood Unit 3, which was retired in 2015, is in the process of being demolished to create space for a new 508 MW combined-cycle plant to be installed. In light of this policy, LADWP instructed NewGen not to consider generation plant dismantlement costs in the 2015 depreciation study.

The estimated cost to dismantle the generating units upon retirement is an area we recommend that LADWP consider in future depreciation studies. Terminal net salvage can be incorporated into depreciation rates and accrued in the reserve for accumulated depreciation. Alternatively, LADWP can establish a separate reserve fund to accrue funds over time to pay for future generation dismantlement costs when they occur.

Note: LADWP makes regular payments into the decommissioning reserve fund required by the Nuclear Regulatory Commission (NRC) for its ownership share PVNGS; however, these payments are accounted for separately as decommissioning expense, and not depreciation.

Annual Depreciation Accrual Rates

The recommended annual depreciation accrual rates for most of LADWP's plant accounts were calculated using the Straight Line, Remaining Life method of depreciation based on the recommended life spans and interim retirement rates for production plant, average service lives and survivor curves for transmission, distribution and general plant, and net salvage rates. These calculations are shown in Schedule 1.

As discussed in Section 2, LADWP still has some plant accounts on its books that are depreciated using the sinking fund method. For these accounts, we calculated recommended annual rates using the sinking fund method at a 5% interest rate which LADWP has used since the early 1940's and is a reasonable approximation of the current rate of return (cost of capital)

for a municipal electric utility. The sinking fund depreciation calculations are shown in Schedule 2.

Section 5
ACCOUNT NARRATIVES

The account narratives presented in this section provide the basis for the recommended average service lives, survivor curves, interim retirement rates, and net salvage rates for LADWP's depreciable plant accounts. Comparison tables are provided for each account showing the deprecation parameters at LADWP's existing depreciation rates, parameters used by other California utilities, average industry data based on statistics reported in industry surveys, and the depreciation parameters NewGen recommends for each depreciable plant account.

Steam and Other Production Plant

The Forecast (or Life Span) method was used to determine the total life span and remaining life span for LADWP's generating units that were used to calculate the recommended depreciation rates for LADWP's Steam and Other Production Plant accounts.

Table 5-1 is a listing of LADWP's generating units, showing the type of unit, model, commercial operation date, nameplate capacity, age of the unit, estimated retirement year, and remaining life span for each generating unit.

LADWP's 2015 integrated resource plan[6] identified the following factors affecting the lives of its electric generation plant:

- Reducing Greenhouse Gas (GHG) emissions

  Senate Bill (SB) 1368, enacted in 2006, prohibits electric utilities in California from entering into long-term financial commitments for base load generation, including long-term investments to existing power plants, unless they comply with the State's CO_2 emissions performance standard. In addition, California Assembly Bill 32 (AB 32), also enacted in 2006, requires electric utilities in California to reduce the State's CO_2 emissions to 1990 levels by 2020. The U.S. Environmental Protection Agency's (EPA) Clean Power Plan, if implemented, would impose additional regulations to reduce carbon dioxide emissions from power plants. LADWP's sale of its 21.2% ownership share in the Navajo Generating Station, which was completed on July 1, 2016, is in line with LADWP's goal to reduce the use of coal-fired generation, as well as LADWP's increased use of renewable energy generation resources.

- Increasing Renewable Resources

  California Senate Bill 350 (SB 350), signed into law on October 7, 2015, requires utilities to procure eligible renewable energy resources of 50% by 2030, with interim targets of 40% by 2024 and 45% by 2027. In 2014, 20% of LADWP's generation resources were from renewable energy. LADWP is increasing its use of renewable resources through purchased power agreements and construction of utility-owned wind and solar generation.

[6] LADWP 2015 Power Integrated Resource Plan, pages ES-10 through ES-18.

As stated in the LADWP's 2015 Power IRP,

> "The integration of renewable energy into the grid poses major reliability challenges. Because renewable resources like wind and solar produce electricity variably and intermittently (i.e., only when the wind is blowing or when the sun is shining), integration of these resources requires additional supplemental generating units to compensate for significant and often rapid swings in energy production. These swings present operational challenges and must be balanced by controllable generation capable of equally rapid changes of generation in the opposite direction." (2015 Power IRP, page ES-11).

This increased operational flexibility is provided by smaller generating units with fast start capability, such as the LM6000 and LMS100 aero-derivative combustion turbines that LADWP has installed at each of its in-basin thermal generating stations.

- Once-through cooling (OTC) mandate

Most of LADWP's recent generation plant retirements have been driven by the regulatory mandate to eliminate use of OTC by 2029. OTC is used at LADWP's three coastal generation stations (Harbor, Haynes, and Scattergood) in which ocean water is pumped through the generating station's cooling system and discharged back to the ocean. LADWP has reduced the number of generating units using OTC from 14 to 4 units. Targeted retirement dates for repowering the remaining units by 2029 are shown in Figure 5-1 below.

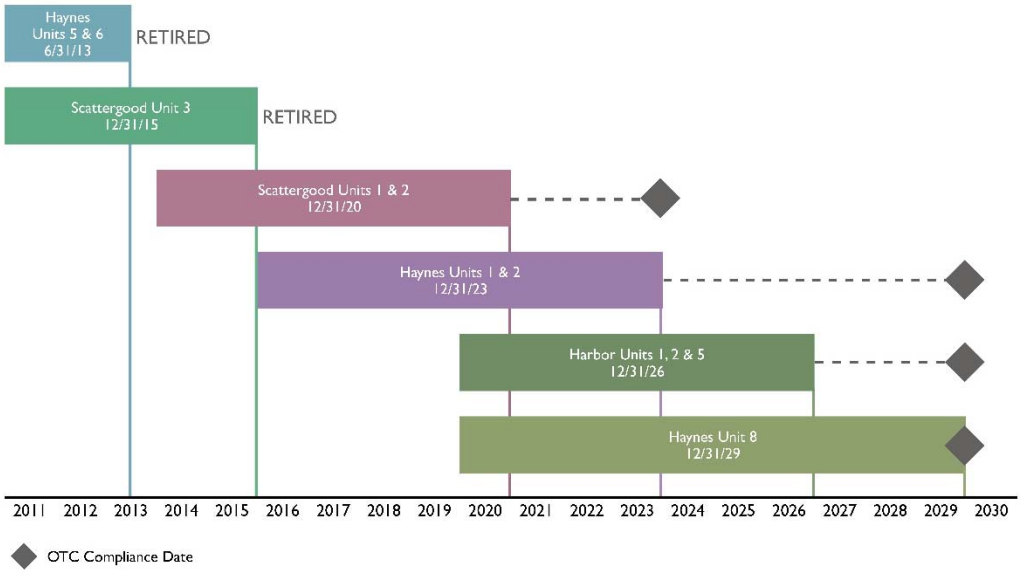

Figure 5-1. Timeline for OTC Compliance

Thermal Generation

The estimated retirement dates and life spans for LADWP's thermal generating units shown in Appendix B were determined based on 1) LADWP's schedule to retire generating units to comply with the OTC mandate and 2) information obtained during interviews with LADWP generation plant managers.

The estimated life spans for the OTC generating units at Harbor, Haynes and Scattergood are based on the targeted retirement dates shown in Figure 5-1 above.

The non-OTC thermal generating units consist of LM6000 and LMS100 combustion turbines that operate in simple cycle mode, and Frame 7EA and 7FA combustion turbines that operate in combined cycle mode with a waste heat steam turbine generator. We recommend a 30-year life span for the non-OTC thermal generating units which is consistent with the life span LADWP uses for generation planning purposes. According to Tyrone Jeffery, Electrical Service Manager, Power and Fuel Purchase, LADWP will assess each generating unit and plan to either replace the unit or modernize it before 30 years.

Our recommended 30-year life span for LADWP's combustion turbine plant is slightly less than the 33 to 36 year expected useful life for combustion turbines developed in the generation useful life analysis described in Section 4. However, the results of the generation useful life analysis discussed in Section 4 are based on an actuarial analysis of historical operating data for generating units in California and may not fully reflect the current operating environment affecting generation plant with more environmental regulations and increased use of renewable energy than in years past.

Most of LADWP's combustion turbine generating units were installed since 2000. The LM6000 and LMS100 units are used for peaking and reserve capacity and to balance variable generation from renewable energy resources, such as solar and wind. The expected life of aero derivative engines, such as the LM6000 and LMS100, is based on the number of run hours and not the number of starts. This is in contrast to the expected life of Frame 7 turbines, which is affected by the number of run hours and number of starts. However, LADWP generation managers informed us that some of the Frame 7 combined cycle generating plants cycled on and off daily.

LADWP also owns a small 2 MW diesel generator at the Haynes Generating Station. The estimated life span for the diesel generator was assumed to be 65 years based on our discussion with LADWP generation plant managers.

The estimated life spans shown in Appendix B represent the overall life span of LADWP's generating units. However, as discussed in Section 2, when interim retirements are taken into consideration, the adjusted life span may be less than the overall life span of the generating unit. The results of the interim retirement rate and interim net salvage rate analyses for Steam and Other Production Plant are discussed in Section 4 and shown in Schedule 4.

As discussed in Section 4, the recommended net salvage rates developed for Steam and Other Production Plant do not include dismantlement costs, also referred to as terminal net salvage.

Wind and Solar Generation

LADWP's investment in wind and solar generation is recorded in Other Production Plant (Accounts 341-346). The estimated life span for the wind generation is equal to 25 years based on the manufacturer estimated life for the turbines. The estimated life span for solar generation is equal to 20 years based on the manufacturer warranty period for the solar panels. There has been no retirement or net salvage experience for wind and solar generation; therefore, a zero interim retirement rate and net salvage rate were used for wind and solar generation.

Nuclear Production Plant

LADWP owns a 5.7% share in the PVNGS, which is operated by Arizona Public Service. The estimated retirement year for each of the three generating units is based on the NRC license expiration date as shown in Table 5-1 below.

Table 5-1
Palo Verde Nuclear Generating Station
License Expiration Date

PVNGS	Commercial Operation Year	License Expiration Date	Life Span (Years)
Unit 1	1986	2045	59
Unit 2	1986	2046	60
Unit 3	1988	2047	59

The interim retirement rates and interim net salvage rates for the nuclear production plant accounts, estimated based on LADWP historical retirement and net salvage experience, are shown in Schedule 3A.

LADWP makes regular payments into the decommissioning reserve fund required by the NRC for its ownership share in the PVNGS; however, these payments are accounted for separately as decommissioning expense, and not depreciation.

Hydroelectric Production Plant

Castaic Power Plant

The Castaic Power Plant (CPP) is a seven-unit pumped storage hydroelectric project, which provides peak-load power from falling water that is dropped 1,063 feet from Pyramid Lake. CPP has six reversible 265-MW generators that function as pumps as well as generators, and one conventional 56-MW generator. Water is pumped back to Pyramid Lake at times of off-peak energy usage and then used to generate electricity during on-peak times. In addition, with LADWP's increased use of renewable energy generation, CPP is valuable to the power system as a means to balance variable and intermittent generation from wind and solar resources. LADWP is nearing completion of a 10- to 15-year program to upgrade and modernize the generating units at CPP.

The FERC hydroelectric license for CPP expires in 2022. LADWP informed us that it will request a 50-year license renewal from FERC, but is not certain that FERC will award that time period. To be conservative for the purpose of the depreciation study, we assumed that a 30-year license renewal period is approved. Therefore, the estimated retirement year used in the depreciation study for CPP is 2052.

Small Hydro System

Figure 5-2 depicts LADWP's small hydroelectric power plants and reservoirs located on the Los Angeles Aqueduct. The hydroelectric power plants are used to control the water supply on the aqueduct, as well as generate electricity. According to LADWP staff, the small

hydroelectric units are "grandfathered", i.e., there are no FERC operating licenses, and LADWP has no plans to retire any of the power plants. Much of the original generating equipment is still in operation today, although there have been some interim retirements and replacements.

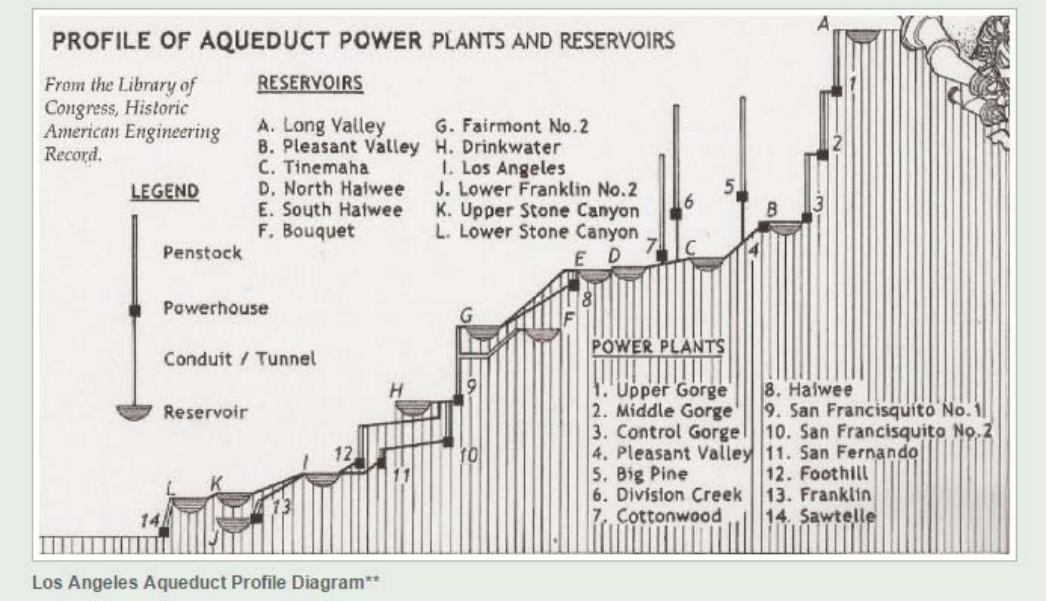

Figure 5-2. LADWP Small Hydroelectric System

For the purpose of the depreciation study, we assumed the small hydroelectric power plants and reservoirs have a remaining life span of 40 years as of the study date (June 30, 2015), which corresponds to an estimated retirement year of 2056. LADWP has no current plans to retire any hydroelectric power plants on the Aqueduct and LADWP staff said there was no reason to retire the plants because the facilities are used for both water and power. LADWP completed major restoration work on the three hydro plants in the Owens Gorge and has budgeted upgrades to extend the life of San Francisquito Power Plant 1 & 2; these plants are the five largest hydroelectric plants in the Aqueduct system. For these reasons, a 40-year estimated average life span is reasonable for the small hydro system plant accounts.

The interim retirement rates and interim net salvage rates for the hydroelectric production plant accounts, estimated based on LADWP historical retirement and net salvage experience, are discussed in Section 4 and shown in Schedule 4.

Transmission Plant

Account 350 – Land and Land Rights

Investment at June 30, 2015: $ 80,107,039

This account includes non-depreciable land and land rights for transmission plant.

Account 352 – Structures and Improvements

Investment at June 30, 2015: $ 97,654,641

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing (see note)	60	S6	-15%
California Utilities			
SCE	55	S3	-35%
SDG&E	72	R2	-60%
PG&E	65	R3	-20%
2012 Industry Survey	57	n/a	-9%
Recommended	60	S3	-6%

Note: Existing depreciation parameters for the Pacific Intertie are 52-year ASL, S3 survivor curve, and -5% net salvage. Existing depreciation parameters for the Western Navajo transmission line are 55-year ASL, S3 survivor curve, and -2.5% net salvage.

There has been low retirement activity in Account 352, with the exception of 2008, which was related to the retirement of the original facilities at the Sylmar converter station. We recommend no change to the existing 60-year average service life, which is reasonable compared to the average service lives used by other electric utilities in California and the 2012 industry survey. We recommend using a lower mode S3 survivor curve for Account 352 based on a comparison with other California electric utilities and the 2012 industry survey. The recommended -6% net salvage rate is equal to the average historical net salvage rate for the transmission function.

Account 353 – Station Equipment

Investment at June 30, 2015: $ 410,395,468

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing (see note)	50	S3	-15%
California Utilities			
SCE	45	R0.5	-15%
SDG&E	50	R1	-60%
PG&E	45	R2, R1.5, SQ	-19%
2012 Industry Survey	49	n/a	-8%
Recommended	50	R1.5	-6%

Note: Existing depreciation parameters for the Pacific Intertie are 52-year ASL, S3 survivor curve, and -5% net salvage. Existing depreciation parameters for the Western Navajo transmission line are 55-year ASL, S3 survivor curve, and -2.5% net salvage.

LADWP initiated a transformer replacement program in 2000, which was expanded in 2011 to include converter station, generator step-up, generating switchyard, and switching station transformers. LADWP uses condition-based and system impact-based scoring to identify transformers for replacement.

LADWP staff informed us that the average service life for a 500-kV transformer is approximately 45 years and the average service life for a 138-kV or 230-kV transformer is approximately 55 years. We were told that the higher the voltage, the lower the average service life of transformers due to electrical stresses. LADWP staff also indicated that there have been some problems in recent years with large transformers failing within two to three years after installation, which was attributed to cheaper quality of manufacturing.

We recommend no change to the existing 50-year average service life and recommend a lower mode R1.5 survivor curve for Account 353 based on comparisons to other electric utilities in California and the 2012 industry survey and information obtained during interviews with LADWP staff. The recommended -6% net salvage rate is equal to the average historical net salvage rate for the transmission function.

Account 354 – Towers and Fixtures

Investment at June 30, 2015: $ 188,977,532

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing (see note)	60	R5	-15%
California Utilities			
SCE	65	R5	-60%
SDG&E	70	R5	-100%
PG&E	75	R4, R5	-61%
2012 Industry Survey	60	n/a	-19%
Recommended	65	R5	-6%

Note: Existing depreciation parameters for the Pacific Intertie are 52-year ASL, S3 survivor curve, and -4.33% net salvage. Existing depreciation parameters for the Western Navajo transmission line are 55-year ASL, S3 survivor curve, and -2.5% net salvage.

The majority of LADWP transmission structures are steel lattice towers. The towers require occasional painting to fight corrosion; but otherwise require minimal maintenance. LADWP is beginning to use monopoles in some locations. LADWP staff said that new electric codes are more stringent; if more circuits are placed on the tower or other changes are made, then the utility has to upgrade the transmission line to meet current code.

LADWP is constructing new transmission lines and/or adding new circuits to existing transmission structures to connect new solar and wind generation projects. From 2009 to 2015, LADWP added $29.2 million of new investment to Account 354, which represents 15.5% of the plant balance at June 30, 2015. There have been zero retirements recorded in Account 354 since 2004.

During the site visit, NewGen staff observed a transmission tower on the Haynes-Atwater 230-kV transmission line that was approximately 80 years old. The insulators on a few circuits had been replaced with silicon insulators, but otherwise the transmission line was original construction.

LADWP's existing 60-year average service life is consistent with the 2012 industry survey of U.S. electric utilities, but is less than the average service lives used by PG&E, SDG&E, and SCE. The existing R5 survivor curve is the same as that used by the California electric utilities. We recommend increasing the average service life for Account 354 from 60 years to 65 years and retaining use of the R5 survivor curve. The recommended -6% net salvage rate is equal to the average historical net salvage rate for the transmission function.

Account 356 – Overhead Conductors and Devices

Investment at June 30, 2015: $ 194,578,624

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing (see note)	65	S3	-15%
California Utilities			
SCE	61	R3	-80%
SDG&E	58	S0	-100%
PG&E	60	R2.5, R3	-65%
2012 Industry Survey	53	n/a	-17%
Recommended	60	S3	-6%

Note: Existing depreciation parameters for the Pacific Intertie are 52-year ASL, S3 survivor curve, and -4.33% net salvage. Existing depreciation parameters for the Western Navajo transmission line are 55-year ASL, S3 survivor curve, and -2.5% net salvage.

From 2009 to 2015, LADWP added $53.5 million of new investment to Account 356, which represents 38% of the plant balance at June 30, 2015. This is attributable to the construction of new transmission lines to connect new solar and wind generation facilities and/or the addition of new transmission circuits to existing transmission structures to serve increased load. There have been zero retirements in Account 356 recorded since 1996.

LADWP has a program underway to replace glass insulators with silicon insulators. Silicon is lighter weight and more pliable than glass, has better insulating qualities than glass, and requires less washing to remove contamination. As mentioned previously, during the field review, we observed some circuits on the Haynes-Atwater 230-kV transmission line where glass insulators had been replaced with silicon.

We recommend a 60-year average service life and S3 survivor curve for Account 356 based on a comparison with average service lives used by PG&E, SDG&E and SCE for this account. The recommended -6% net salvage rate is equal to the average historical net salvage rate for the transmission function.

Account 357 – Underground Conduit

Investment at June 30, 2015: $ 68,635,470

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing	70	R5	-15%
California Utilities			
SCE	55	R3	n/a
SDG&E	60	R5	-45%
PG&E	60	R5	n/a
2012 Industry Survey	55	n/a	-2%
Recommended	70	R5	-6%

LADWP staff informed us that all transmission underground conductors are installed in conduit. Most of the plant investment in Account 357 has occurred since 2003. No retirements have been recorded in Account 357 since 2003, which is not unusual given that most of the conduit was installed since 2003.

We recommend no change to the existing 70-year average service life and R5 survivor curve for Account 358. The recommended -6% net salvage rate is equal to the average historical net salvage rate for the transmission function.

Account 358 – Underground Conductors and Devices

Investment at June 30, 2015: $ 69,661,202

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing	25	SQ	0%
California Utilities			
SCE	40	R2.5	-15%
SDG&E	50	R3	-10%
PG&E	55	R3	-10%
2012 Industry Survey	46	n/a	-5%
Recommended	50	R3	-6%

LADWP has approximately 71 circuit miles of underground 138-kV transmission lines and 53 circuit miles of 230-kV transmission lines. Most of the underground transmission lines are located in the downtown network, near the airport, and coming out of the Scattergood Generating Station along the coast. LADWP staff informed us that all transmission underground conductor is installed in conduit.

As part of LADWP's PSRP, LADWP plans to replace the old 138-kV lead-filled, low pressure oil cable in the system that was installed in the 1940's with newer technology synthetic cable. Maintaining the older 138-kV transmission lines has become difficult due to the lack of replacement parts. LADWP staff said there are no external factors affecting the life of underground transmission conductor, other than the life cycle of the conductor itself.

The existing 25-year average service life for Account 358, Underground Conductors and Devices, is too short based on LADWP's experience and comparisons to other utilities. The 138-kV cable that LADWP is currently replacing was installed in the 1940s, which corresponds to an age of 55 to 65 years. We recommend a 50-year average service life and R3 survivor curve for Account 358, based on LADWP's plant experience and the average service lives and survivor curves used by PG&E, SDG&E and SCE for this account. The recommended -6% net salvage rate is equal to the average historical net salvage rate for the transmission function.

Account 359 – Roads and Trails

Investment at June 30, 2015: $ 12,625,443

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing (see note)	50	R5	-15%
California Utilities			
SCE	60	SQ	n/a
SDG&E	60	SQ	n/a
PG&E	60	R1.5	-10%
2012 Industry Survey	62	n/a	0%
Recommended	60	R5	-6%

Note: Existing depreciation parameters for the Pacific Intertie are 52-year ASL, S3 survivor curve, and -4.33% net salvage. Existing depreciation parameters for the Western Navajo transmission line are 55-year ASL, S3 survivor curve, and -2.5% net salvage.

There have been consistent annual additions to Account 359, but very few retirements (in only three years). We recommend increasing the average service life for Account 359 from 50 years to 60 years based on the low level of retirements experienced in the account and comparisons with the average service lives used by other electric utilities in California and industry surveys. We recommend no change to the existing R5 survivor curve. The recommended -6% net salvage rate is equal to the average historical net salvage rate for the transmission function.

Distribution Plant

Account 360 – Land and Land Rights

Investment at June 30, 2015: $ 42,715,711

This account includes non-depreciable land and land rights for distribution plant.

Account 361 – Structures and Improvements

Investment at June 30, 2015: $ 429,945,254

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing	60	R2	-10%
California Utilities			
SCE	42	R2.5	-25%
SDG&E	54	R3	-100%
PG&E	55	S5	-20%
2012 Industry Survey	53	n/a	-13%
Recommended	60	R2	-29%

We recommend no change to the existing 60-year average service life, R2 survivor curve and -10% net salvage rate for Account 361, Structures and Improvements. Based on our observations during the field review, LADWP has a lot of older distribution structures that are still in use; a 60- year average service life is reasonable for Account 361. The recommended -29% net salvage rate is equal to the average historical net salvage rate for the distribution function as discussed in Section 4.

Account 362 – Station Equipment

Investment at June 30, 2015: $ 1,836,861,520

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing	40	R1	-10%
California Utilities			
SCE	45	R1.5	-25%
SDG&E	49	R1.5	-100%
PG&E	45	R2	-21%
2012 Industry Survey	46	n/a	-11%
Recommended	50	R1.5	-29%

Account 362 includes station equipment at Receiving Stations and Distributing Stations. Receiving Stations receive electric service from the transmission system at 230 kV and steps it down to 34.5 kV service, and industrial and large commercial load at 34.5 kV. Distributing Stations receive electric service at 34.5 kV and step it down to 4.8 kV service, which is used to serve residential and small commercial load.

According to LADWP staff, the average service life for 138-kV and 230-kV transformers is approximately 55 years. Based on a study performed by LADWP in 2011, the average age of transformers at Receiving Stations was 29 years; we do not have data regarding the average age of transformers at Distributing Stations.

Based on information obtained from interviews with LADWP staff and considering comparative depreciation statistics for the California electric utilities and the 2012 industry survey shown in the table above, we recommend a 50-year average service life and R1.5 survivor curve for Account 362, Station Equipment. The recommended -29% net salvage rate is equal to the average historical net salvage rate for the distribution function as discussed in Section 4.

Account 364 – Poles, Towers, and Fixtures

Investment at June 30, 2015: $ 1,418,709,649

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing	20	L1	-10%
California Utilities			
SCE	47	L0.5	-210%
SDG&E	44	R0.5	-95%
PG&E	42	R1.5	-105%
2012 Industry Survey	46	n/a	-51%
Recommended	50	R0.5	-29%

Most LADWP distribution are wood poles; there are less than 100 concrete poles in the total system. Fiberglass poles are used in hard to access areas and rear properties because they are lighter and easier to maneuver than wood poles.

LADWP records show that in 2016 there were 308,443 total poles in the system, including 2,685 with no data available about the installation year. The average age of poles in 2016 for which installation year data is available is 50 years. Seventy-four percent of the poles in the LADWP power system are jointly owned with the Southern California Joint Pole Committee members.

According to LADWP staff, the average life of wood distribution poles is approximately 50 to 60 years. Factors affecting the life of wood poles are termites and moisture from irrigation. LADWP crews test poles every five years and use a fumigation program to maintain and extend the life of wood poles. We observed examples of "C" trusses used to provide additional support for poles that need it.

LADWP began using fiberglass cross arms in 2006–2008. Wood cross-arms are subject to termites and decay due to sun exposure and may be replaced two to three times over the life of the pole. In contrast, fiberglass cross-arms have UV protection and can outlast the life of the pole.

Under the PSRP, LADWP has targeted replacing 2,507 poles per year, a 0.8% replacement rate. The average age of condemned poles was 40 to 60 years.

The existing average service life of 20 years is too short for Account 364. Based on information obtained during interviews with LADWP staff responsible for distribution plant, we recommend a 50-year average service life for Account 364. A R0.5 survivor curve is recommended for Account 364 based on a review of data in the 2012 Industry Survey and used by PG&E and SDG&E. The recommended -29% net salvage rate is equal to the average historical net salvage rate for the distribution function as discussed Section 4.

Account 365 – Overhead Conductors and Devices

Investment at June 30, 2015: $ 341,403,537

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing	20	R0.5	-10%
California Utilities			
SCE	45	R0.5	-115%
SDG&E	48	R0.5	-70%
PG&E	42	R2	-108%
2012 Industry Survey	47	n/a	-36%
Recommended	50	R0.5	-29%

The existing 20-year average service life is too short for overhead conductor. Distribution conductor is seldom replaced due to age; typically, it is replaced when a circuit is overloaded and more capacity is needed. There are no current programs at LADWP to replace distribution conductors other than as needed on a case-by-case basis. According to LADWP staff, the conductors have been very reliable and are expected to live longer than 40 years.

LADWP has been using silicon insulators on 34.5 kV distribution lines for approximately 20 years. Silicon is lighter weight than glass, has better insulating qualities than glass, and requires less washing to remove corrosion.

According to LADWP, the growth of distributed generation and renewable energy resources at the customer premise could result in changes to the electric distribution system. If power is flowing in both directions, it may be necessary to increase the size of conductor at the customer end. LADWP did a study of solar installed at the customer premise and its potential impacts on the distribution system. The results of the study indicated that the fluctuation in solar generation will cause a lot of stress on regulators, and LADWP will need to add more capacitor banks to smooth out the fluctuations. LADWP may require solar owners to have a smart inverter to help with the voltage issue. Energy storage may be another solution and a requirement to prevent this additional investment in facilities.

We recommend a 50-year average service life and R0.5 survivor curve for Account 365 based on information obtained during interviews with LADWP staff and a review of comparison depreciation statistics for the California electric utilities and the 2012 Industry Survey. The recommended - 29% net salvage rate is equal to the average historical net salvage rate for the distribution function as discussed in Section 4.

Account 366 – Underground Conduit

Investment at June 30, 2015: $ 973,312,686

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing	65	S1	-10%
California Utilities			
SCE	59	R3	-30%
SDG&E	53	R2.5	-40%
PG&E	54	R4	-40%
2012 Industry Survey	55	n/a	-12%
Recommended	65	S1	-29%

According to LADWP staff, most distribution underground conductors are installed in conduit. We recommend no change to the existing 65-year average service life and S1 survivor curve. The recommended - 29% net salvage rate is equal to the average historical net salvage rate for the distribution function as discussed in Section 4.

Account 367 – Underground Conductors and Devices

Investment at June 30, 2015: $ 934,284,067

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing	40	S0	-10%
California Utilities			
SCE	45	R0.5	-60%
SDG&E	40	R3	-55%
PG&E	42	R3	-43%
2012 Industry Survey	43	n/a	-20%
Recommended	40	S0	-29%

According to LADWP staff, most distribution underground conductor is installed in conduit; there is very little direct buried conductor in the LADWP system.

If a redevelopment or new project is in a designated underground area, the facilities will be placed underground. If a redevelopment or new project is in a designated overhead area, the facilities will be placed on overhead facilities. Sometimes developers will elect to have facilities placed underground; if so, the developer pays the additional cost to underground the facilities.

We recommend no change to the existing 40-year average service life and S0 survivor curve. The recommended - 29% net salvage rate is equal to the average historical net salvage rate for the distribution function as discussed in Section 4.

Account 368 – Line Transformers

Investment at June 30, 2015: $ 637,076,643

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing	40	L1	-10%
California Utilities			
SCE	33	R1	-20%
SDG&E	13, 33	L0, L0.5	-50%, -45%
PG&E	32, 29	R2.5, R3	-11%, 5%
2012 Industry Survey	39	n/a	-9%
Recommended	33	R2	-29%

According to a LADWP useful life study of transformers:

- Overhead distribution transformers have an end of life (i.e., less than 1% surviving) equal to 61 years; the average of overhead transformers is 28 years
- Underground transformers located in vaults under streets or submersible transformers have an end of life equal to 55 years
- There was insufficient data on pad mount transformers to use in the study.

The 2012 industry survey indicates an R2 is the most commonly used survivor curve for Account 368 reported by utilities included in the survey. An R2 survivor curve reaches 0% surviving at 186% of the average service life. If the end of life for overhead distribution transformers is equal to 61 years (as shown in the LADWP useful life study), then based on the R2 survivor curve, the average service life is equal to 33 years (61 years/186%). A 33-year average service life is comparable to the average service lives used by PG&E, SDG&E, and SCE as shown in the table above.

Doing a similar calculation for underground transformers, results in an average service life equal to 30 years (55 years/186%). Since there are more overhead distribution transformers than underground transformers in the LADWP system, we recommend a 33-year average service life and R2 survivor curve for Account 368. The recommended - 29% net salvage rate is equal to the average historical net salvage rate for the distribution function as discussed in Section 4.

Account 369 – Services

Investment at June 30, 2015: $ 415,960,995

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing	35	S5	-10%
California Utilities			
SCE	45	R1.5	-100%
SDG&E	48, 50	R3, R1	-70%, -90%
PG&E	49,44	R3, R4	-90%, -45%
2012 Industry Survey	42	n/a	-35%
Recommended	45	R3	-29%

Services are replaced due to capacity needs, e.g., increased air conditioning load, or open wire related issues. California Public Utilities Commission (CPUC) General Order 95 requires utilities to insulate or cover open wire services, e.g., the insulation on the conductor may have deteriorated. LADWP has a program to replace open wire services as they are identified with a wrapped triplex. Underground services are installed in conduit.

We recommend a 45-year average service life and an R3 survivor curve for Account 369 based on comparisons with PG&E, SDG&E, and SCE and the 2012 Industry Survey. The recommended -29% net salvage rate is equal to the average historical net salvage rate for the distribution function as discussed in Section 4.

Account 370 – Meters

Investment at June 30, 2015: $ 306,413,664

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing			
Electro-mechanical meters	38	S1	0%
Smart meters	15	n/a	0%
California Utilities			
SCE	20	R3	-5%
SDG&E	48	R0.5	n/a
PG&E	20	R1.5	-9%
2012 Industry Survey	30	n/a	-6%
Recommended			
Electro-mechanical meters	25	S1	0%
Smart meters	15	R1	0%

Approximately 60% of LADWP's existing meters are electronic meters and 40% are electromechanical meters. Approximately 90% of commercial and industrial customers have electronic meters. The last large scale meter replacement project was in 2003. LADWP staff informed us that in LADWP will begin a 3- to 5-year program to replace all 1.5 million customer meters in late 2017.

LADWP is evaluating smart grid and advanced metering infrastructure (AMI) technology. The smart grid system for the distribution system in the future will include fault locating, switching, load monitoring, and smart meters. In July 2014, LADWP initiated the "Smart Grid L.A." demonstration project which involved the installation of smart meters for 52,000 residential and commercial customers.

According to LADWP staff, the average service life for electro-mechanical meters is 25 to 30 years and 15 years for electronic meters. The average service life for smart grid meters is 10 to 15 years. Factors affecting the life of the equipment are technology, physical wear and tear, and vendor support.

We recommend reducing the average service life for electro-mechanical meters from 38 years to 25 years. In addition, we recommend no change to the 15-year average service life for electronic meters, and recommend use of an R1 survivor curve to introduce a mortality dispersion instead of amortizing the cost of electronic meters over 15 years. We also recommend no change to the existing 0% net salvage rate for meters.

Account 371 – Installations on Customer Premises

Investment at June 30, 2015: $ 420,469

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing	30	L3	-10%
California Utilities			
SCE	n/a	n/a	n/a
SDG&E	19	R0.5	-90%
PG&E	40	S1	0%
2012 Industry Survey	28	n/a	-13%
Recommended	30	SQ	0%

There is only a small amount of investment in Account 371, most of which ($321,939) is related to the purchase of central air conditioning load data in 1993 through 1995. There have been no additions to this account since 2001, with the exception of $513 of plant added in 2009, and no retirements since 1976. Considering the small investment and miscellaneous nature of the plant assets recorded in Account 371, we recommend a 30-year average service life, SQ survivor curve, and 0% net salvage rate for Account 371.

Account 373 – Street Lighting and Signal Systems

Investment at June 30, 2015: $ 53,887,789

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing	30	L3	-10%
California Utilities			
SCE	40	L0.5	-30%
SDG&E	32	L0	-70%
PG&E	24 - 30	R0.5, S6, L0, L3	-20% to -50%
2012 Industry Survey	29	n/a	-12%
Recommended	20	L3	-29%

LADWP owns the street lights that are mounted on electric utility distribution poles (referred to as utilitarian lights). The City of Los Angeles Bureau of Street Lighting owns and maintains all other street lights and traffic signals in City.

The Bureau of Street Lighting converted the street lights it owns to light emitting diode (LED) technology in 2009–2013. LADWP staff informed us that LADWP is in the process of converting the utilitarian lights it owns to LED technology. The average service life for LED street lights is approximately 20 years based on the life of the LED fixture.

We recommend a 20-year average service life for Account 373, which is reasonable for LED street lights and reduces the depreciation recovery period for any undepreciated investment in the existing high pressure sodium vapor (HPSV) street lights. We recommend no change to the existing L3 survivor curve. The recommended -29% net salvage rate is equal to the average historical net salvage rate for the distribution function as discussed in Section 4.

General Plant

Account 389 – Land and Land Rights

Investment at June 30, 2015: $ 5,773,234

This account includes non-depreciable land and land rights for general plant.

Account 390 – Structures and Improvements

Investment at June 30, 2015: $ 362,035,342

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing	60	S4	5%
California Utilities			
SCE	38	R3	-10%
SDG&E	30	n/a	-25%
PG&E	40	R3	-10%
2012 Industry Survey	44	n/a	-9%
Recommended	60	S4	6%

LADWP owns approximately 406 buildings located on 219 sites representing a total of 3,261,000 square feet of building space. Of the 406 total buildings, we were told that the Power Division owns 357 buildings. Many of the buildings are old and had to be updated to meet safety and seismic codes. Based on data provided by LADWP, 176 of the Power Division buildings (49%) were built before 1965, and 69 of the buildings were built before 1940. LADWP staff indicated that some Power Division buildings are over 100 years old.

We recommend no change to the existing 60-year average service life and S4 survivor curve for Account 390. The recommended 6% net salvage rate is equal to the average historical net salvage rate for the general plant function.

Account 391 – Office Furniture and Equipment

Investment at June 30, 2015: $ 314,795,168

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing			
Furniture	25	R1	5%
Computer Equipment	5	SQ	0%
Computer/IT Equipment (MIS)	15	S-.5	0%
California Utilities			
SCE	Furniture 20, Computer 5, Power Mgmt. System 14.5	SQ	0%
SDG&E	n/a	n/a	n/a
PG&E*	Furniture 20, Computer Equip 5, CIS 15	SQ	0%
2012 Industry Survey	11 - 19	n/a	0% - 1%
Recommended			
Furniture	25	SQ	6%
Computer Equipment	5	SQ	0%
Computer/IT Equipment (MIS)	15	SQ	0%

* PG&E Common Plant.

Based on our review of LADWP plant records, the assets recorded in Account 391, Office Furniture and Equipment, were divided in three categories of plant which correspond to the existing average service life:

- Furniture and Office Equipment – 25 years
- Computer Equipment – 5 years, shorter-lived plant such as laptop and desktop computers
- Computer/IT Equipment (MIS) – 15 years, primarily equipment maintained by LADWP Management Information Services (MIS)

Based on information obtained during interviews with LADWP staff, the existing average service lives for furniture (25 years), computer equipment (5 years), and computer/ information technology (IT) equipment (15 years) are appropriate and we recommend no changes to the existing average service lives. (Computer/IT equipment includes servers, system software, and IT network facilities, while computer equipment includes shorter-lived laptop and desk top computers).

As shown in the table above, we recommend a SQ survivor curve for all depreciation groups under Account 391, which is equivalent to vintage amortization accounting. See Section 2, Background on Depreciation, for a description of vintage amortization accounting.

The recommended 6% net salvage rate for Furniture is equal to the average historical net salvage rate for the general plant function. We recommend no change to the 0% net salvage rate for Computer Equipment and Computer/IT Equipment.

Account 392 – Transportation Equipment

Investment at June 30, 2015: $ 267,803,886

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing	15	L5	5%
California Utilities			
SCE	7	SQ	0%
SDG&E	n/a	n/a	n/a
PG&E*	8 - 21	L1, L3, L4, S2.5	10%
2012 Industry Survey	10	n/a	8%
Recommended	15	L5	6%

* PG&E Common Plant.

Most of the investment (93%) in Account 392 is attributable to LADWP's vehicle fleet and helicopters, which is handled through clearing accounts and not treated as depreciable plant. Depreciable plant recorded in Account 392 includes transportation equipment at equipment repair shops, battery shops and other locations, and PVNGS and Navajo Generating Station.

We recommend no change to the existing 15-year average service life and L5 survivor curve for Account 392, Transportation Equipment. The recommended 6% net salvage rate is equal to the average historical net salvage rate for the general plant function.

Account 393 – Stores Equipment

Investment at June 30, 2015: $ 807,588

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing	35	SQ	0%
California Utilities			
SCE	20	SQ	0%
SDG&E	25	SQ	0%
PG&E*	20	SQ	0%
2012 Industry Survey	23	n/a	1%
Recommended	25	SQ	0%

* PG&E Common Plant.

We recommend a 25-year average service life, SQ survivor curve, and 0% net salvage rate for Account 393, which is consistent with the depreciation parameters used by PG&E, SDG&E, and SCE and reported in the 2012 Industry Survey. The recommended SQ curve is equivalent to amortizing the investment over the average service life, which is the method LADWP currently uses to depreciate assets in this account. We recommend no change to the 0% net salvage rate for Account 393.

Account 394 – Tools, Shop and Garage Equipment

Investment at June 30, 2015: $ 6,063,137

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing	15	SQ	2%
California Utilities			
SCE	10	SQ	0%
SDG&E	24, 27	SQ	0%
PG&E*	25	SQ	0%
2012 Industry Survey	21	n/a	1%
Recommended	15	SQ	0%

* PG&E Common Plant.

Based on information obtained during interviews with LADWP staff, we recommend no change to the existing 15-year average service life, SQ survivor curve, and 0% net salvage rate for Account 394.

Account 395 – Laboratory Equipment

Investment at June 30, 2015: $ 17,194,171

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing	35	S4	0%
California Utilities			
SCE	15	SQ	0%
SDG&E	20	SQ	0%
PG&E*	20	SQ	0%
2012 Industry Survey	20	n/a	0%
Recommended	25	SQ	0%

* PG&E Common Plant.

Based on comparisons with other utilities, we recommend reducing the average service life for Account 395 from 35 years to 20 years. Laboratory equipment today uses electronic and digital

technology which tends to have a shorter expected life than mechanical equipment. Based on comparisons to industry data, we recommend a 25-year average service life, SQ survivor curve and 0% net salvage rate for Account 395.

Account 396 – Power Operated Equipment

Investment at June 30, 2015: $ 72,189,201

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing	30	R1	5%
California Utilities			
SCE	15	SQ	25%
SDG&E	n/a	n/a	n/a
PG&E*	14	L2	20%
2012 Industry Survey	16	n/a	8%
Recommended	15	R1	6%

* PG&E Common Plant.

Approximately two-thirds of the investment in Account 396 is handled through clearing accounts and is not treated as depreciable plant. The remaining one-third of the investment in Account 396 that is accounted for as depreciable plant includes power operated equipment at LADWP's design and construction offices. The existing 30-year average service life is high compared to the average service lives used by PG&E and SCE and reported in the 2012 industry survey. LADWP staff responsible for power operated equipment recommended using an average service life of 15 to 20 years for power operated equipment. Based on this information and comparisons with depreciation parameters used by California electric utilities and reported in the 2012 industry survey, we recommend a 15-year average service life and no change to the existing R1 survivor curve. and 5% net salvage rate. The recommended 6% net salvage rate is equal to the average historical net salvage rate for the general plant function.

Account 397 – Communication Equipment

Investment at June 30, 2015: $ 451,254,131

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing	20, 30	S4	5%
California Utilities			
SCE	16	SQ	0%
SDGE	28	SQ	-15%
PG&E*	5 - 20	SQ	0%
2012 Industry Survey	17	n/a	0%
Recommended	25	SQ	6%

* PG&E Common Plant.

Telecommunications systems are managed at the Department level and include Power, Water, and Corporate Systems.

Fiber Optic System: LADWP has 827 route miles of fiber optic cable for a total of 101,435 miles of fiber strands. According to LADWP staff, the industry standard for fiber optic cable has been a 25-year estimated service life, however, fiber standards are changing and old fiber cable is not considered good enough for some high speed data applications.

Microwave System: LADWP has approximately 90 microwave site that support Power System facilities in California, Nevada, and Utah. These sites are used for the Los Angeles Basin, Pacific Intertie, Northern, Intermountain Power Agency, and Victorville/McCullough (Eastern) digital microwave systems. These systems were converted from analog to digital during 1995 to 2008. According to LADWP staff, the microwave systems will need to be replaced with new Ethernet-based systems over the next 5 to 10 years. The microwave towers are long-lived assets; however, the equipment is digital and has a shorter estimated life.

Radio System: LADWP installed a new 14 site 900-MHz P25 digital mobile radio system in 2015 that provides coverage in the Los Angeles Basin, Mojave, and Owens Valley areas. The other outlying areas in Northern California, Nevada, and Utah are serve with a 27 site low-band mobile radio system. The Department has approximately 3,500 mobile and portable radios in use. The radios are mass purchased and have an estimated life of seven years.

Telephone System: According to LADWP staff, the telephone system VoIP platform will be upgraded over the next three years; the current system is approximately 9 years old, which puts the estimated life of the phone system at 12 years. Other telephone systems (Nortel PBX, the Call Pilot Voice Mail system, and the Energy Control Center (ECC) Dedicated Power Operations Phone System (DPOPS)) will be replaced over the next five years.

Enterprise Network Infrastructure: The enterprise network infrastructure is comprised of local area network (LAN) and wide area network (WAN) equipment to support departmental applications. According to LADWP staff, the average life of network infrastructure equipment is five to seven years.

We recommend a 25-year average service life and a SQ survivor curve for Account 397, Communications Equipment, based on a review of the data provided by LADWP staff. The recommended 6% net salvage rate is equal to the average historical net salvage rate for the general plant function.

Account 398 – Miscellaneous Equipment

Investment at June 30, 2015: $ 10,733,763

	Average Service Life (Years)	Survivor Curve	Net Salvage
LADWP Existing	35	S1.5	5%
California Utilities			
SCE	20	SQ	0%
SDG&E	15	SQ	0%
PG&E*	20	SQ	0%
2012 Industry Survey	18	n/a	1%
Recommended	25	SQ	6%

* PG&E Common Plant.

We recommend a 25-year average service live and SQ survivor curve for Account 398 to be more consistent with depreciation parameters used by other California electric utilities and reported in the 2012 industry survey. The recommended 6% net salvage rate is equal to the average historical net salvage rate for the general plant function.

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Summary Schedules

Schedule 1	Calculation of Annual Depreciation Accrual Rates Based on Plant in Service at June 30, 2015
Schedule 2	Calculation of Annual Depreciation Accrual Rates for Sinking Fund Accounts Based on Plant in Service at June 30, 2015
Schedule 3	Comparison of Depreciation Rates and Annual Accruals Based on Plant in Service at June 30, 2015
Schedule 4	Comparison of Existing and Proposed Depreciation Parameters

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SCHEDULE 1
Calculation of Annual Depreciation Accrual Rates Based on Plant in Service at June 30, 2015

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Los Angeles Department of Water and Power
Calculation of Annual Depreciation Accrual Rates
Based on Plant in Service at June 30, 2015
Schedule 1A - Production Plant

Account	Description	Original Cost	Estimated Net Salvage %	Estimated Net Salvage Amount ($)	Depreciation Reserve	Amount to be Recovered	Estimated Retirement Year	Remaining Life Span at FYE 2015	Interim Retirement Rate	Adjusted Remaining Life Span	Annual Accrual Amount	Annual Accrual Rate
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
	STEAM PRODUCTION PLANT											
311.00	**Structures and Improvements**											
311.00	Harbor Generating Station : HGS	$6,164,230	0%	$0	$66,622	$6,097,608	2027	12	0.0003	12.0	$509,050	8.26%
311.00	Harbor Generating Unit 5 (Combined Cycle) : HGS-U0	3,928,135	0%	0	562,810	3,365,325	2027	12	0.0003	12.0	280,949	7.15%
311.00	Haynes Generating Common Areas : HNGS-COMN	40,067,400	0%	0	5,785,285	34,282,115	2038	23	0.0003	22.9	1,495,687	3.73%
311.00	Haynes Generating Unit 02 : HNGS-U02	683,673	0%	0	82,664	601,009	2024	9	0.0003	9.0	66,869	9.78%
311.00	Marine Tank Farm	34,780,559	0%	0	16,370,087	18,410,472	2027	12	0.0003	12.0	1,536,973	4.42%
311.00	Olympic Tank Farm	652,382	0%	0	305,772	346,610	2025	10	0.0003	10.0	34,713	5.32%
311.00	Scattergood Generating Common : SGS-COMN	5,294,776	0%	0	241,969	5,052,807	2021	6	0.0003	6.0	842,893	15.92%
311.00	Scattergood Generating Unit 1 : SGS-U01	194,407	0%	0	14,543	179,864	2021	6	0.0003	6.0	30,004	15.43%
311.00	Scattergood Generating Unit 2 : SGS-U02	226,007	0%	0	139,919	86,088	2021	6	0.0003	6.0	14,361	6.35%
311.00	Valley Generating Common Areas : VGS-COMN	3,449,544	0%	0	17,531	3,432,013	2031	16	0.0003	16.0	215,017	6.23%
	Subtotal Account 311.00	$95,441,112		$0	$23,587,202	$71,853,910					$5,026,516	5.27%
311.00	Los Angeles (not assigned to a specific location)	$202,851	0%	$0	$10,364	$192,486	2020	5	0.0003	5.0	$38,526	18.99%
311.00	Other Entries - Steam	2,936	0%	0	127	2,809	2043	28	0.0003	27.9	101	3.43%
	Subtotal Account 311.00: Composite Account(s)	$205,787		$0	$10,492	$195,295					$38,627	18.77%
	Total Account 311.00	$95,646,899		$0	$23,597,694	$72,049,206					$5,065,143	5.30%
312.00	**Boiler Plant Equipment**											
312.00	Harbor Generating Station : HGS	$2,334,208	0%	$0	$253,442	$2,080,766	2027	12	0.0026	11.8	$176,145	7.55%
312.00	Harbor Generating Unit 5 (Combined Cycle) : HGS-U0	633,891	0%	0	372,630	261,262	2027	12	0.0026	11.8	22,117	3.49%
312.00	Haynes Generating Common Areas : HNGS-COMN	3,024,591	0%	0	1,113,947	1,910,645	2038	23	0.0026	22.3	85,632	2.83%
312.00	Haynes Generating Unit 01 : HNGS-U01	9,430,391	0%	0	6,085,464	3,344,927	2024	9	0.0026	8.9	376,058	3.99%
312.00	Haynes Generating Unit 02 : HNGS-U02	9,506,119	0%	0	4,836,034	4,670,085	2024	9	0.0026	8.9	525,041	5.52%
312.00	Haynes Generating Unit 08 (Steam Turbine) : HNGS-U0	14,061,145	0%	0	256,336	13,804,808	2035	20	0.0026	19.5	708,666	5.04%
312.00	Scattergood Generating Common : SGS-COMN	215,619	0%	0	109,787	105,832	2021	6	0.0026	6.0	17,777	8.24%
312.00	Scattergood Generating Unit 1 : SGS-U01	24,798,051	0%	0	15,450,656	9,347,395	2021	6	0.0026	6.0	1,570,146	6.33%
312.00	Scattergood Generating Unit 2 : SGS-U02	15,692,996	0%	0	9,744,861	5,948,136	2021	6	0.0026	6.0	999,149	6.37%
312.00	Valley Generating Common Areas : VGS-COMN	923,776	0%	0	31,052	892,723	2031	16	0.0026	15.7	56,980	6.17%
	Subtotal Account 312.00	$80,620,787		$0	$38,254,209	$42,366,579					$4,537,713	5.63%
312.00	Los Angeles (not assigned to a specific location)	$43,473		$0	$1,739	$41,734	2020	5	0.0026	5.0	$8,401	19.33%
	Subtotal Account 312.00: Composite Account(s)	$43,473		$0	$1,739	$41,734					$8,401	19.33%
	Total Account 312.00	$80,664,260		$0	$38,255,947	$42,408,313					$4,546,114	5.64%
314.00	**Turbogenerator Units**											
314.00	Harbor Generating Station : HGS	$215,385	0%	$0	$51,692	$163,693	2027	12	0.0011	11.9	$13,732	6.38%
314.00	Harbor Generating Unit 5 (Combined Cycle) : HGS-U0	2,068,834	0%	0	1,410,560	658,274	2027	12	0.0011	11.9	55,221	2.67%
314.00	Haynes Generating Common Areas : HNGS-COMN	2,081,670	0%	0	218,110	1,863,560	2038	23	0.0011	22.7	82,062	3.94%
314.00	Haynes Generating Unit 01 : HNGS-U01	8,308,127	0%	0	606,689	7,701,438	2024	9	0.0011	9.0	859,972	10.35%
314.00	Haynes Generating Unit 02 : HNGS-U02	512,171	0%	0	35,792	476,379	2024	9	0.0011	9.0	53,194	10.39%
314.00	Haynes Generating Unit 08 (Steam Turbine) : HNGS-U0	126,180,116	0%	0	47,985,455	78,194,661	2035	20	0.0011	19.8	3,953,218	3.13%
314.00	Scattergood Generating Common : SGS-COMN	102,511	0%	0	24,436	78,074	2021	6	0.0011	6.0	13,055	12.74%
314.00	Scattergood Generating Unit 1 : SGS-U01	11,582,332	0%	0	5,206,200	6,376,132	2021	6	0.0011	6.0	1,066,207	9.21%
314.00	Scattergood Generating Unit 2 : SGS-U02	16,636,740	0%	0	406,010	16,230,730	2021	6	0.0011	6.0	2,714,078	16.31%
314.00	Scattergood Generating Units 4-7	19,402,428	0%	0	382,892	19,019,536	2045	30	0.0011	29.5	644,621	3.32%
314.00	Valley Generating Common Areas : VGS-COMN	991,112	0%	0	13,549	977,563	2031	16	0.0011	15.9	61,640	6.22%
314.00	Valley Generating Unit 8 (Gas Turbine) : VGS-U0	116,311,041	0%	0	48,842,680	67,468,361	2033	18	0.0011	17.8	3,785,721	3.25%
	Total Account 314.00	$304,392,467		$0	$105,184,066	$199,208,401					$13,302,722	4.37%

Los Angeles Department of Water and Power
Calculation of Annual Depreciation Accrual Rates
Based on Plant in Service at June 30, 2015
Schedule 1A - Production Plant

Account	Description	Original Cost	Estimated Net Salvage %	Estimated Net Salvage Amount ($)	Depreciation Reserve	Amount to be Recovered	Estimated Retirement Year	Remaining Life Span at FYE 2015	Interim Retirement Rate	Adjusted Remaining Life Span	Annual Accrual Amount	Annual Accrual Rate
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
315.00	**Accessory Electric Equipment**											
315.00	Harbor Generating Station : HGS	$338,660	0%	$0	$14,455	$324,205	2027	12	0.0011	11.9	$27,197	8.03%
315.00	Harbor Generating Unit 5 (Combined Cycle) : HGS-U05	620,087	0%	0	314,163	305,924	2027	12	0.0011	11.9	25,663	4.14%
315.00	Haynes Generating Common Areas : HNGS-COMN	2,145,315	0%	0	458,833	1,686,482	2038	23	0.0011	22.7	74,265	3.46%
315.00	Haynes Generating Unit 01 : HNGS-U01	1,235,737	0%	0	664,130	571,607	2024	9	0.0011	9.0	63,828	5.17%
315.00	Haynes Generating Unit 02 : HNGS-U02	1,281,989	0%	0	214,652	1,067,337	2024	9	0.0011	9.0	119,183	9.30%
315.00	Haynes Generating Unit 07 : HNGS-U07	335,990	0%	0	24,686	311,303	2024	9	0.0011	9.0	34,761	10.35%
315.00	Scattergood Generating Common : SGS-COMN	760,787	0%	0	299,766	461,022	2021	6	0.0011	6.0	77,091	10.13%
315.00	Scattergood Generating Unit 1 : SGS-U01	3,779,484	0%	0	801,731	2,977,752	2021	6	0.0011	6.0	497,935	13.17%
315.00	Scattergood Generating Unit 2 : SGS-U02	2,918,606	0%	0	929,052	1,989,554	2021	6	0.0011	6.0	332,690	11.40%
315.00	Valley Generating Common Areas : VGS-COMN	7,032,153	0%	0	1,103,674	5,928,479	2031	16	0.0011	15.9	373,820	5.32%
315.00	Valley Generating Unit 8 (Gas Turbine) : VGS-U08	4,595,084	0%	0	328,182	4,266,902	2033	18	0.0011	17.8	239,420	5.21%
	Total Account 315.00	$25,043,890		$0	$5,153,323	$19,890,567					$1,865,853	7.45%
316.00	**Miscellaneous Power Plant Equipment**											
316.00	Harbor Generating Station : HGS	$1,305,576	0%	$0	$48,158	$1,257,418	2027	12	0.0025	11.8	$106,381	8.15%
316.00	Harbor Generating Unit 5 (Combined Cycle) : HGS-U05	209,999	0%	0	54,158	155,841	2027	12	0.0025	11.8	13,185	6.28%
316.00	Haynes Generating Common Areas : HNGS-COMN	4,101,235	0%	0	3,383,442	717,793	2038	23	0.0025	22.3	32,132	0.78%
316.00	Scattergood Generating Common : SGS-COMN	12,129,725	0%	0	3,287,319	8,842,406	2021	6	0.0025	6.0	1,484,871	12.24%
316.00	Valley Generating Common Areas : VGS-COMN	65,925	0%	0	42,148	23,777	2031	16	0.0025	15.7	1,516	2.30%
	Subtotal Account 316.00	$17,812,459		$0	$6,815,225	$10,997,235					$1,638,085	9.20%
316.00	Los Angeles (not assigned to a specific location)	$1,186,553	0%	$0	$151,011	$1,035,542	2020	5	0.0025	5.0	$208,411	17.56%
316.00	Los Angeles Area (Southern Area), Power Distributior	927,064	0%	0	605,216	321,848	2039	24	0.0025	23.3	13,825	1.49%
	Subtotal Account 316.00: Composite Account(s)	$2,113,617		$0	$756,227	$1,357,391					$222,236	10.51%
	Total Account 316.00	$19,926,077		$0	$7,571,451	$12,354,626					$1,860,321	9.34%
	TOTAL STEAM PRODUCTION PLANT	$525,673,594		$0	$179,762,481	$345,911,112					$26,640,153	5.07%
	NUCLEAR PRODUCTION PLANT											
	Palo Verde Nuclear Station											
321.00	Structures and Improvements	$127,559,989	-12%	($15,307,199)	$78,751,765	$64,115,422	2046	31	0.0031	29.5	$2,172,635	1.70%
322.00	Reactor Plant Equipment	275,440,220	-12%	(33,052,826)	176,502,888	131,990,159	2046	31	0.0041	29.0	4,546,689	1.65%
323.00	Turbogenerator Units	85,502,360	-12%	(10,260,283)	52,178,821	43,583,822	2046	31	0.0057	28.3	1,542,181	1.80%
324.00	Accessory Electric Equipment	63,388,106	-12%	(7,606,573)	49,065,125	21,929,554	2046	31	0.0014	30.3	723,096	1.14%
325.00	Miscellaneous Power Plant Equipmen	37,702,137	-12%	(4,524,256)	24,942,329	17,284,065	2046	31	0.0093	26.5	651,458	1.73%
	TOTAL NUCLEAR PRODUCTION PLANT	$589,592,812		($70,751,137)	$381,440,928	$278,903,022					$9,636,059	1.63%

Los Angeles Department of Water and Power
Calculation of Annual Depreciation Accrual Rates
Based on Plant in Service at June 30, 2015
Schedule 1A - Production Plant

Account	Description	Original Cost	Estimated Net Salvage %	Estimated Net Salvage Amount ($)	Depreciation Reserve	Amount to be Recovered	Estimated Retirement Year	Remaining Life Span at FYE 2015	Interim Retirement Rate	Adjusted Remaining Life Span	Annual Accrual Amount	Annual Accrual Rate
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
	HYDRAULIC PRODUCTION PLANT											
331.00	**Structures and Improvements**											
331.00	Big Pine Power Plant (Unit 1) : BPPF	$179,626	0%	$0	$75,574	$104,052	2056	41	0.0005	40.6	$2,564	1.43%
331.00	Castaic Power Plant Common Equipment : CPP-COMM	79,322,402	0%	0	57,886,659	21,435,743	2052	37	0.0005	36.7	584,753	0.74%
331.00	Castaic Power Plant Unit 1 : CPP-U01	5,878	0%	0	304	5,575	2052	37	0.0005	36.7	152	2.59%
331.00	Castaic Power Plant Unit 2 : CPP-U02	923	0%	0	55	867	2052	37	0.0005	36.7	24	2.56%
331.00	Castaic Power Plant Unit 3 : CPP-U03	923	0%	0	55	867	2052	37	0.0005	36.7	24	2.56%
331.00	Castaic Power Plant Unit 4 : CPP-U04	923	0%	0	55	867	2052	37	0.0005	36.7	24	2.56%
331.00	Castaic Power Plant Unit 5 : CPP-U05	923	0%	0	55	867	2052	37	0.0005	36.7	24	2.56%
331.00	Castaic Power Plant Unit 6 : CPP-U06	923	0%	0	55	867	2052	37	0.0005	36.7	24	2.56%
331.00	Castaic Power Plant Unit 7 : CPP-U07	923	0%	0	55	867	2052	37	0.0005	36.7	24	2.56%
331.00	Control Gorge Power Plant (Unit 1) : CGPP	1,324,976	0%	0	338,017	986,959	2056	41	0.0005	40.6	24,321	1.84%
331.00	Cottonwood Power Plant (Units 1 & 2) : CWDPF	181,148	0%	0	29,282	151,867	2056	41	0.0005	40.6	3,742	2.07%
331.00	Foothill Power Plant (Unit 1) : FHPF	628,151	0%	0	145,788	482,363	2056	41	0.0005	40.6	11,887	1.89%
331.00	Franklin Power Plant (Unit 1) : FRPF	32,796	0%	0	18,100	14,696	2056	41	0.0005	40.6	362	1.10%
331.00	Haiwee Power Plant (Units 1 & 2) : HAIPF	169,710	0%	0	40,007	129,703	2056	41	0.0005	40.6	3,196	1.88%
331.00	Lone Pine Yard : Waterways	2,195,584	0%	0	243,369	1,952,214	2056	41	0.0005	40.6	48,108	2.19%
331.00	Los Angeles Hydro Plants	3,069,805	0%	0	485,944	2,583,861	2056	41	0.0005	40.6	63,674	2.07%
331.00	Middle Gorge Power Plant (Unit 1) : MGPF	1,597,409	0%	0	597,172	1,000,237	2056	41	0.0005	40.6	24,649	1.54%
331.00	Owens Valley Hydro Plants	3,368,729	0%	0	531,615	2,837,114	2056	41	0.0005	40.6	69,915	2.08%
331.00	Pleasant Valley Power Plant (Unit 1) : PVPF	201,311	0%	0	116,157	85,154	2056	41	0.0005	40.6	2,098	1.04%
331.00	San Fernando Power Plant (Units 1 & 2) : SFPF	973,513	0%	0	69,876	903,637	2056	41	0.0005	40.6	22,268	2.29%
331.00	San Francisquito Power Plant 1 (Units 1-5) : PP1	3,185,749	0%	0	465,960	2,719,789	2056	41	0.0005	40.6	67,023	2.10%
331.00	San Francisquito Power Plant 2 (Units 1-3) : PP2	4,152,760	0%	0	508,896	3,643,864	2056	41	0.0005	40.6	89,795	2.16%
331.00	Upper Gorge Power Plant (Unit 1) : UGPP	1,745,882	0%	0	680,880	1,065,003	2056	41	0.0005	40.6	26,245	1.50%
	Subtotal Account 331.00	$102,340,965		$0	$62,233,931	$40,107,034					$1,044,895	1.02%
331.00	Los Angeles (not assigned to a specific location)	$1,850,045	0%	$0	$109,235	$1,740,810	2056	41	0.0005	40.6	$42,898	2.32%
	Subtotal Account 331.00: Composite Account(s)	$1,850,045		$0	$109,235	$1,740,810					$42,898	2.32%
	Total Account 331.00	$104,191,010		$0	$62,343,166	$41,847,844					$1,087,794	1.04%

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Based on Plant in Service at June 30, 2015
Schedule 1A - Production Plant

Account	Description	Original Cost	Estimated Net Salvage %	Estimated Net Salvage Amount ($)	Depreciation Reserve	Amount to be Recovered	Estimated Retirement Year	Remaining Life Span at FYE 2015	Interim Retirement Rate	Adjusted Remaining Life Span	Annual Accrual Amount	Annual Accrual Rate
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
332.00	**Reservoirs, Dams and Waterways**											
332.00	Big Pine Lake Reservoir	$19,990	0%	$0	$15,626	$4,364	2056	41	0.0001	40.9	$107	0.53%
332.00	Big Pine Power Plant (Unit 1) : BPPF	55,661	0%	0	48,591	7,070	2056	41	0.0001	40.9	173	0.31%
332.00	Bouquet Canyon Reservoir	209,478	0%	0	136,157	73,321	2056	41	0.0001	40.9	1,792	0.86%
332.00	Castaic Power Plant Common Equipment : CPP-COMM	186,777,800	0%	0	141,028,894	45,748,906	2052	37	0.0001	36.9	1,238,749	0.66%
332.00	Castaic Power Plant Unit 1 : CPP-U01	224,473	0%	0	2,246	222,227	2052	37	0.0001	36.9	6,017	2.68%
332.00	Castaic Power Plant Unit 3 : CPP-U03	262,023	0%	0	56,350	205,673	2052	37	0.0001	36.9	5,569	2.13%
332.00	Castaic Power Plant Unit 4 : CPP-U04	(72,263)	0%	0	2,944	(75,208)	2052	37	0.0001	36.9	(2,036)	2.82%
332.00	Control Gorge Power Plant (Unit 1) : CGPP	1,650,038	0%	0	1,305,341	344,697	2056	41	0.0001	40.9	8,425	0.51%
332.00	Cottonwood Power Plant (Units 1 & 2) : CWDPF	522,082	0%	0	62,713	459,369	2056	41	0.0001	40.9	11,227	2.15%
332.00	Division Creek Power Plant (Unit 1): DCPF	1,146,183	0%	0	32,881	1,113,302	2056	41	0.0001	40.9	27,209	2.37%
332.00	Drinkwater Reservoir	121,976	0%	0	76,218	45,758	2056	41	0.0001	40.9	1,118	0.92%
332.00	Fairmont Reservoir #1	50,897	0%	0	40,204	10,693	2056	41	0.0001	40.9	261	0.51%
332.00	Fairmont Reservoir #2	7,848,025	0%	0	6,357,271	1,490,755	2056	41	0.0001	40.9	36,435	0.46%
332.00	Foothill Power Plant (Unit 1) : FHPF	269,458	0%	0	200,441	69,017	2056	41	0.0001	40.9	1,687	0.63%
332.00	Franklin Power Plant (Unit 1) : FRPF	144,638	0%	0	92,961	51,677	2056	41	0.0001	40.9	1,263	0.87%
332.00	Haiwee Power Plant (Units 1 & 2) : HAIPF	320,732	0%	0	246,489	74,243	2056	41	0.0001	40.9	1,815	0.57%
332.00	Long Valley Reservoir (Lake Crowley)	87,996	0%	0	77,857	10,139	2056	41	0.0001	40.9	248	0.28%
332.00	Middle Gorge Power Plant (Unit 1) : MGPF	914,800	0%	0	715,561	199,239	2056	41	0.0001	40.9	4,869	0.53%
332.00	Owens Valley Hydro Plants	8,630	0%	0	1,086	7,543	2056	41	0.0001	40.9	184	2.14%
332.00	Pleasant Valley Power Plant (Unit 1) : PVPF	27,721	0%	0	14,286	13,435	2056	41	0.0001	40.9	328	1.18%
332.00	Pleasant Valley Reservoir	336,610	0%	0	273,702	62,908	2056	41	0.0001	40.9	1,537	0.46%
332.00	Rock Creek Diversion	16,154	0%	0	12,686	3,468	2056	41	0.0001	40.9	85	0.52%
332.00	San Fernando Power Plant (Units 1 & 2) : SFPF	122,710	0%	0	104,193	18,517	2056	41	0.0001	40.9	453	0.37%
332.00	San Francisquito Power Plant 1 (Units 1-5) : PP1	702,045	0%	0	434,256	267,789	2056	41	0.0001	40.9	6,545	0.93%
332.00	San Francisquito Power Plant 2 (Units 1-3) : PP2	938,097	0%	0	400,128	537,969	2056	41	0.0001	40.9	13,148	1.40%
332.00	Upper Dry Canyon Reservoir	103,124	0%	0	64,200	38,924	2056	41	0.0001	40.9	951	0.92%
332.00	Upper Franklin Canyon Reservoir	135,074	0%	0	82,636	52,438	2056	41	0.0001	40.9	1,282	0.95%
332.00	Upper Gorge Power Plant (Unit 1) : UGPP	2,662,248	0%	0	1,567,982	1,094,265	2056	41	0.0001	40.9	26,744	1.00%
	Total Account 332.00	$205,606,399		$0	$153,453,900	$52,152,499					$1,396,185	0.68%
333.00	**Water Wheels, Turbines and Generators**											
333.00	Castaic Power Plant Common Equipment : CPP-COMM	$45,941,060	0%	$0	$30,696,083	$15,244,977	2052	37	0.0064	32.6	$467,362	1.02%
333.00	Castaic Power Plant Unit 1 : CPP-U01	39,948,133	0%	0	1,389,639	38,558,493	2052	37	0.0064	32.6	1,182,080	2.96%
333.00	Castaic Power Plant Unit 2 : CPP-U02	11,553,114	0%	0	1,632,617	9,920,496	2052	37	0.0064	32.6	304,131	2.63%
333.00	Castaic Power Plant Unit 3 : CPP-U03	1,055,097	0%	0	189,527	865,570	2052	37	0.0064	32.6	26,536	2.51%
333.00	Castaic Power Plant Unit 4 : CPP-U04	1,230,825	0%	0	221,093	1,009,733	2052	37	0.0064	32.6	30,955	2.51%
333.00	Castaic Power Plant Unit 5 : CPP-U05	2,276,982	0%	0	409,012	1,867,970	2052	37	0.0064	32.6	57,266	2.51%
333.00	Castaic Power Plant Unit 6 : CPP-U06	10,471,588	0%	0	881,356	9,590,232	2052	37	0.0064	32.6	294,006	2.81%
333.00	Castaic Power Plant Unit 7 : CPP-U07	1,470,682	0%	0	200,371	1,270,311	2052	37	0.0064	32.6	38,944	2.65%
333.00	Control Gorge Power Plant (Unit 1) : CGPP	24,085,345	0%	0	465,804	23,619,541	2056	41	0.0064	35.6	663,083	2.75%
333.00	Cottonwood Power Plant (Units 1 & 2) : CWDPF	1,961,444	0%	0	304,563	1,656,881	2056	41	0.0064	35.6	46,514	2.37%
333.00	Haiwee Power Plant (Units 1 & 2) : HAIPF	544,033	0%	0	73,671	470,362	2056	41	0.0064	35.6	13,205	2.43%
333.00	Middle Gorge Power Plant (Unit 1) : MGPF	23,895,282	0%	0	120,635	23,774,647	2056	41	0.0064	35.6	667,437	2.79%
333.00	San Francisquito Power Plant 1 (Units 1-5) : PP1	422,554	0%	0	41,700	380,853	2056	41	0.0064	35.6	10,692	2.53%
333.00	Upper Gorge Power Plant (Unit 1) : UGPP	9,881,452	0%	0	178,192	9,703,260	2056	41	0.0064	35.6	272,404	2.76%
	Subtotal Account 333.00	$174,737,591		$0	$36,804,264	$137,933,327					$4,074,614	2.33%
333.00	Los Angeles (not assigned to a specific location)	$3,299	0%	$0	$447	$2,852	2056	41	0.0064	35.6	$80	2.43%
	Subtotal Account 333.00: Composite Account(s)	$3,299		$0	$447	$2,852					$80	2.43%
	Total Account 333.00	$174,740,890		$0	$36,804,711	$137,936,179					$4,074,694	2.33%

Los Angeles Department of Water and Power
Calculation of Annual Depreciation Accrual Rates
Based on Plant in Service at June 30, 2015
Schedule 1A - Production Plant

Account	Description	Original Cost	Estimated Net Salvage %	Estimated Net Salvage Amount ($)	Depreciation Reserve	Amount to be Recovered	Estimated Retirement Year	Remaining Life Span at FYE 2015	Interim Retirement Rate	Adjusted Remaining Life Span	Annual Accrual Amount	Annual Accrual Rate
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
334.00	**Accessory Electric Equipment**											
334.00	Big Pine Power Plant (Unit 1) : BPPF	$922,449	0%	$0	$90,484	$831,965	2056	41	0.0040	37.6	$22,104	2.40%
334.00	Castaic Power Plant Common Equipment : CPP-COMN	40,703,567	0%	0	19,865,022	20,838,545	2052	37	0.0040	34.3	608,212	1.49%
334.00	Castaic Power Plant Unit 1 : CPP-U01	9,310,757	0%	0	342,719	8,968,039	2052	37	0.0040	34.3	261,749	2.81%
334.00	Castaic Power Plant Unit 2 : CPP-U02	16,302,514	0%	0	2,276,349	14,026,165	2052	37	0.0040	34.3	409,380	2.51%
334.00	Castaic Power Plant Unit 3 : CPP-U03	10,201,901	0%	0	1,651,272	8,550,629	2052	37	0.0040	34.3	249,566	2.45%
334.00	Castaic Power Plant Unit 4 : CPP-U04	23,924,036	0%	0	4,299,707	19,624,329	2052	37	0.0040	34.3	572,772	2.39%
334.00	Castaic Power Plant Unit 5 : CPP-U05	15,379,780	0%	0	2,148,282	13,231,498	2052	37	0.0040	34.3	386,186	2.51%
334.00	Castaic Power Plant Unit 6 : CPP-U06	11,735,617	0%	0	3,388,564	8,347,053	2052	37	0.0040	34.3	243,624	2.08%
334.00	Castaic Power Plant Unit 7 : CPP-U07	1,354,833	0%	0	135,959	1,218,874	2052	37	0.0040	34.3	35,575	2.63%
334.00	Control Gorge Power Plant (Unit 1) : CGPP	6,238,371	0%	0	1,548,139	4,690,232	2056	41	0.0040	37.6	124,614	2.00%
334.00	Cottonwood Power Plant (Units 1 & 2) : CWDPF	3,807,794	0%	0	565,178	3,242,616	2056	41	0.0040	37.6	86,153	2.26%
334.00	Division Creek Power Plant (Unit 1): DCPF	21,171	0%	0	19,798	1,373	2056	41	0.0040	37.6	36	0.17%
334.00	Foothill Power Plant (Unit 1) : FHPF	184,742	0%	0	158,414	26,329	2056	41	0.0040	37.6	700	0.38%
334.00	Franklin Power Plant (Unit 1) : FRPF	80,002	0%	0	51,355	28,647	2056	41	0.0040	37.6	761	0.95%
334.00	Haiwee Power Plant (Units 1 & 2) : HAIPF	1,242,189	0%	0	481,137	761,052	2056	41	0.0040	37.6	20,220	1.63%
334.00	Middle Gorge Power Plant (Unit 1) : MGPF	1,202,113	0%	0	304,989	897,124	2056	41	0.0040	37.6	23,836	1.98%
334.00	Owens Valley Hydro Plants	947,599	0%	0	199,878	747,721	2056	41	0.0040	37.6	19,866	2.10%
334.00	Pleasant Valley Power Plant (Unit 1) : PVPF	1,747,866	0%	0	231,405	1,516,461	2056	41	0.0040	37.6	40,291	2.31%
334.00	San Francisquito Power Plant 1 (Units 1-5) : PP1	3,108,015	0%	0	2,596,764	511,250	2056	41	0.0040	37.6	13,583	0.44%
334.00	San Francisquito Power Plant 2 (Units 1-3) : PP2	2,783,221	0%	0	2,142,396	640,825	2056	41	0.0040	37.6	17,026	0.61%
334.00	Sawtelle Hydro Power Plant (Unit 1) : STPF	25,412	0%	0	1,078	24,334	2056	41	0.0040	37.6	647	2.54%
334.00	Upper Gorge Power Plant (Unit 1) : UGPP	1,805,935	0%	0	343,228	1,462,707	2056	41	0.0040	37.6	38,863	2.15%
	Total Account 334.00	$153,029,885		$0	$42,842,118	$110,187,767					$3,175,763	2.08%
335.00	**Miscellaneous Power Plant Equipment**											
335.00	Big Pine Power Plant (Unit 1) : BPPF	$1,209,335	0%	$0	$236,757	$972,578	2056	41	0.0020	39.3	$24,736	2.05%
335.00	Castaic Power Plant Common Equipment : CPP-COMN	7,546,532	0%	0	5,723,074	1,823,458	2052	37	0.0020	35.6	51,176	0.68%
335.00	Castaic Power Plant Unit 1 : CPP-U01	83,174	0%	0	1,607	81,566	2052	37	0.0020	35.6	2,289	2.75%
335.00	Castaic Power Plant Unit 2 : CPP-U02	36,242	0%	0	705	35,538	2052	37	0.0020	35.6	997	2.75%
335.00	Control Gorge Power Plant (Unit 1) : CGPP	77,492	0%	0	56,868	20,624	2056	41	0.0020	39.3	525	0.68%
335.00	Cottonwood Power Plant (Units 1 & 2) : CWDPF	1,178,765	0%	0	214,490	964,275	2056	41	0.0020	39.3	24,524	2.08%
335.00	Foothill Power Plant (Unit 1) : FHPF	6,724	0%	0	5,098	1,626	2056	41	0.0020	39.3	41	0.61%
335.00	Lone Pine Yard : Waterways	57,306	0%	0	43,158	14,149	2056	41	0.0020	39.3	360	0.63%
335.00	Los Angeles Hydro Plants	840,919	0%	0	840,275	643	2056	41	0.0020	39.3	16	0.00%
335.00	Middle Gorge Power Plant (Unit 1) : MGPF	32,595	0%	0	27,746	4,849	2056	41	0.0020	39.3	123	0.38%
335.00	Other Entries-Small Hydro	336,825	0%	0	7,934	328,891	2056	41	0.0020	39.3	8,365	2.48%
335.00	Owens Valley Hydro Plants	94,988	0%	0	37,956	57,032	2056	41	0.0020	39.3	1,451	1.53%
335.00	Pleasant Valley Power Plant (Unit 1) : PVPF	33,839	0%	0	28,992	4,847	2056	41	0.0020	39.3	123	0.36%
335.00	San Francisquito Power Plant 1 (Units 1-5) : PP1	540,322	0%	0	348,207	192,115	2056	41	0.0020	39.3	4,886	0.90%
335.00	San Francisquito Power Plant 2 (Units 1-3) : PP2	813,437	0%	0	442,992	370,445	2056	41	0.0020	39.3	9,422	1.16%
335.00	Upper Gorge Power Plant (Unit 1) : UGPP	23,971	0%	0	23,871	101	2056	41	0.0020	39.3	3	0.01%
	Total Account 335.00	$12,912,468		$0	$8,039,731	$4,872,737					$129,037	1.00%

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Schedule 1A - Production Plant

Account	Description	Original Cost	Estimated Net Salvage %	Estimated Net Salvage Amount ($)	Depreciation Reserve	Amount to be Recovered	Estimated Retirement Year	Remaining Life Span at FYE 2015	Interim Retirement Rate	Adjusted Remaining Life Span	Annual Accrual Amount	Annual Accrual Rate
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
336.00	**Roads, Railroads and Bridges**											
336.00	Castaic Power Plant Common Equipment : CPP-COMN	$2,442,673	0%	$0	$1,211,246	$1,231,427	2052	37	0.0000	37.0	$33,282	1.36%
336.00	Control Gorge Power Plant (Unit 1) : CGPP	1,890,270	0%	0	260,262	1,630,008	2056	41	0.0000	41.0	39,756	2.10%
336.00	Owens Valley Hydro Plants	10,533	0%	0	1,508	9,025	2056	41	0.0000	41.0	220	2.09%
336.00	San Francisquito Power Plant 1 (Units 1-5) : PP1	95,339	0%	0	2,509	92,830	2056	41	0.0000	41.0	2,264	2.37%
336.00	San Francisquito Power Plant 2 (Units 1-3) : PP2	95,338	0%	0	2,509	92,829	2056	41	0.0000	41.0	2,264	2.37%
	Subtotal Account 336.00	$4,534,153		$0	$1,478,034	$3,056,118					$77,786	1.72%
336.00	Los Angeles (not assigned to a specific location)	$11,207	0%	$0	$2,458	$8,749	2056	41	0.0000	41.0	$213	1.90%
	Subtotal Account 336.00: Composite Account(s)	$11,207		$0	$2,458	$8,749					$213	1.90%
	Total Account 336.00	$4,545,360		$0	$1,480,492	$3,064,868					$78,000	1.72%
337.00	**Asset Retirement Costs**											
337.00	Bouquet Canyon Reservoi	$106,426	0%	$0	$68,878	$37,548	2056	41	0.0000	41.0	$916	0.86%
	Total Account 337.00	$106,426		$0	$68,878	$37,548					$916	0.86%
	TOTAL HYDRAULIC PRODUCTION PLANT	$655,132,438		$0	$305,032,996	$350,099,443					$9,942,388	1.52%
	OTHER PRODUCTION PLANT											
341.00	**Structures and Improvements**											
341.00	Beacon - Solar Projects	$120,876	0%	$0	$1,592	$119,284	2035	20	0.0000	20.0	$5,964	4.93%
341.00	Geothermal - Imperial Valley	2,800	0%	0	0	2,800	2035	20	0.0000	20.0	140	5.00%
341.00	Harbor Generating Common Unit 1 & 2	31,876,967	0%	0	30,506,756	1,370,211	2027	12	0.0000	12.0	114,184	0.36%
341.00	Harbor Generating Unit 2 (Combined Cycle) : HGS-U02	603,094	0%	0	24,010	579,084	2027	12	0.0000	12.0	48,257	8.00%
341.00	Harbor Generating Unit 10 (Combustion Turbine) Gt Lm6000 :	19,207	0%	0	3,093	16,114	2032	17	0.0000	17.0	948	4.94%
341.00	Harbor Generating Unit 11 (Combustion Turbine) Gt Lm6000 :	19,207	0%	0	3,093	16,114	2032	17	0.0000	17.0	948	4.94%
341.00	Harbor Generating Unit 12 (Combustion Turbine) Gt Lm6000 :	19,207	0%	0	3,093	16,114	2032	17	0.0000	17.0	948	4.94%
341.00	Harbor Generating Unit 13 (Combustion Turbine) Gt Lm6000 :	19,207	0%	0	3,093	16,114	2032	17	0.0000	17.0	948	4.94%
341.00	Harbor Generating Unit 14 (Combustion Turbine) Gt Lm6000 :	19,207	0%	0	3,093	16,114	2032	17	0.0000	17.0	948	4.94%
341.00	Haynes Generating Unit 08 (Steam Turbine) : HNGS-U08	1,362,546	0%	0	26,687	1,335,859	2035	20	0.0000	20.0	66,793	4.90%
341.00	Haynes Generating Unit 09 (Gas Turbine) : HNGS-U09	1,278,217	0%	0	25,564	1,252,652	2035	20	0.0000	20.0	62,633	4.90%
341.00	Haynes Generating Unit 10 (Gas Turbine) : HNGS-U10	1,282,055	0%	0	25,641	1,256,414	2035	20	0.0000	20.0	62,821	4.90%
341.00	Pine Tree Windfarm Project	91,062,123	0%	0	20,204,062	70,858,061	2034	19	0.0000	19.0	3,729,372	4.10%
	Subtotal Account 341.00	$127,684,712		$0	$50,829,776	$76,854,936					$4,094,903	3.21%
341.00	Los Angeles (not assigned to a specific location)	$3,756,174	0%	$0	$50,191	$3,705,983	2040	25	0.0000	25.0	$148,239	3.95%
341.00	Other Entries - Other Production	29,665	0%	0	7,833	21,832	2045	30	0.0000	30.0	728	2.45%
	Subtotal Account 341.00: Composite Account(s)	$3,785,839		$0	$58,024	$3,727,815					$148,967	3.93%
	Total Account 341.00	$131,470,551		$0	$50,887,799	$80,582,752					$4,243,870	3.23%
342.00	**Fuel Holders, Producers and Accessories**											
342.00	Harbor Generating Commn(Combustion)	$19,445	0%	$0	$4,667	$14,778	2032	17	0.0007	16.9	$874	4.50%
	Total Account 342.00	$19,445		$0	$4,667	$14,778					$874	4.50%

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Account	Description	Original Cost	Estimated Net Salvage %	Estimated Net Salvage Amount ($)	Depreciation Reserve	Amount to be Recovered	Estimated Retirement Year	Remaining Life Span at FYE 2015	Interim Retirement Rate	Adjusted Remaining Life Span	Annual Accrual Amount	Annual Accrual Rate
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
343.00	**Prime Movers**											
343.00	Pine Tree Windfarm Project	$162,558,731	0%	$0	$36,568,899	$125,989,832	2034	19	0.0000	19.0	$6,631,044	4.08%
	Total Account 343.00	$162,558,731		$0	$36,568,899	$125,989,832					$6,631,044	4.08%
344.00	**Generators**											
344.00	Adelanto Solar Power Project	$51,343,341	0%	$0	$6,081,055	$45,262,286	2032	17	0.0000	17.0	$2,662,487	5.19%
344.00	Harbor Generating Common Unit 1 & 2	133,129,484	0%	0	131,325,274	1,804,210	2027	12	0.0000	12.0	150,351	0.11%
344.00	Harbor Generating Common Unit 10, 11, 12, 13 & 14 : HGS-LI	122,909	0%	0	35,534	87,375	2032	17	0.0000	17.0	5,140	4.18%
344.00	Harbor Generating Unit 1 (Combined Cycle) : HGS-U01	312,059	0%	0	225,150	86,909	2027	12	0.0000	12.0	7,242	2.32%
344.00	Harbor Generating Unit 2 (Combined Cycle) : HGS-U02	1,685,349	0%	0	1,355,167	330,181	2027	12	0.0000	12.0	27,515	1.63%
344.00	Harbor Generating Unit 10 (Combustion Turbine) Gt Lm6000 :	40,625,276	0%	0	20,042,887	20,582,389	2032	17	0.0000	17.0	1,210,729	2.98%
344.00	Harbor Generating Unit 11 (Combustion Turbine) Gt Lm6000 :	40,227,184	0%	0	19,841,453	20,385,731	2032	17	0.0000	17.0	1,199,161	2.98%
344.00	Harbor Generating Unit 12 (Combustion Turbine) Gt Lm6000 :	40,227,184	0%	0	19,841,453	20,385,731	2032	17	0.0000	17.0	1,199,161	2.98%
344.00	Harbor Generating Unit 13 (Combustion Turbine) Gt Lm6000 :	40,227,184	0%	0	19,841,453	20,385,731	2032	17	0.0000	17.0	1,199,161	2.98%
344.00	Harbor Generating Unit 14 (Combustion Turbine) Gt Lm6000 :	40,228,916	0%	0	19,842,328	20,386,588	2032	17	0.0000	17.0	1,199,211	2.98%
344.00	Haynes Generating Unit 08 (Steam Turbine) : HNGS-U08	21,981,070	0%	0	1,743,755	20,237,314	2035	20	0.0000	20.0	1,011,866	4.60%
344.00	Haynes Generating Unit 09 (Gas Turbine) : HNGS-U09	144,766,286	0%	0	55,899,145	88,867,141	2035	20	0.0000	20.0	4,443,357	3.07%
344.00	Haynes Generating Unit 10 (Gas Turbine) : HNGS-U10	145,141,386	0%	0	56,069,538	89,071,848	2035	20	0.0000	20.0	4,453,592	3.07%
344.00	Haynes Generating Unit 11 (Simple Cycle) : HNGS-U11	108,455,179	0%	0	7,196,674	101,258,505	2043	28	0.0000	28.0	3,616,375	3.33%
344.00	Haynes Generating Unit 12 (Simple Cycle) : HNGS-U12	116,079,700	0%	0	7,386,056	108,693,644	2043	28	0.0000	28.0	3,881,916	3.34%
344.00	Haynes Generating Unit 13 (Simple Cycle) : HNGS-U13	115,120,185	0%	0	7,360,832	107,759,353	2043	28	0.0000	28.0	3,848,548	3.34%
344.00	Haynes Generating Unit 14 (Simple Cycle) : HNGS-U14	110,005,830	0%	0	7,249,918	102,755,912	2043	28	0.0000	28.0	3,669,854	3.34%
344.00	Haynes Generating Unit 15 (Simple Cycle) : HNGS-U15	109,747,528	0%	0	7,247,394	102,500,134	2043	28	0.0000	28.0	3,660,719	3.34%
344.00	Haynes Generating Unit 16 (Simple Cycle) : HNGS-U16	117,777,602	0%	0	7,528,504	110,249,098	2043	28	0.0000	28.0	3,937,468	3.34%
344.00	Pine Tree - Solar Project	55,760,241	0%	0	4,771,556	50,988,685	2033	18	0.0000	18.0	2,832,705	5.08%
344.00	Pine Tree Windfarm Project	138,747,407	0%	0	31,149,259	107,598,148	2034	19	0.0000	19.0	5,663,060	4.08%
344.00	Solar - Other Entries	17,628,655	0%	0	1,605,913	16,022,742	2032	17	0.0000	17.0	942,514	5.35%
344.00	Valley Generating Unit 5 (Combustion Turbine) : VGS-U05	42,736,630	0%	0	21,060,802	21,675,829	2031	16	0.0000	16.0	1,354,739	3.17%
344.00	Valley Generating Unit 6 (Combined Cycle) : VGS-U06	135,822,418	0%	0	53,018,561	82,803,857	2033	18	0.0000	18.0	4,600,214	3.39%
344.00	Valley Generating Unit 7 (Combined Cycle) : VGS-U07	135,378,995	0%	0	52,932,449	82,446,546	2033	18	0.0000	18.0	4,580,364	3.38%
	Total Account 344.00	$1,903,277,998		$0	$560,652,112	$1,342,625,886					$61,357,449	3.22%
345.00	**Accessory Electric Equipment**											
345.00	Adelanto Solar Power Project	$159,226	0%	$0	$9,176	$150,050	2032	17	0.0008	16.9	$8,887	5.58%
345.00	Harbor Generating Unit 1 (Combined Cycle) : HGS-U01	186,179	0%	0	4,032	182,147	2027	12	0.0008	11.9	15,252	8.19%
345.00	Harbor Generating Unit 2 (Combined Cycle) : HGS-U02	66,920	0%	0	1,977	64,942	2027	12	0.0008	11.9	5,438	8.13%
345.00	Harbor Generating Unit 10 (Combustion Turbine) Gt Lm6000 :	219,850	0%	0	6,957	212,894	2032	17	0.0008	16.9	12,609	5.74%
345.00	Harbor Generating Unit 11 (Combustion Turbine) Gt Lm6000 :	170,882	0%	0	5,564	165,318	2032	17	0.0008	16.9	9,791	5.73%
345.00	Harbor Generating Unit 12 (Combustion Turbine) Gt Lm6000 :	434,431	0%	0	24,326	410,106	2032	17	0.0008	16.9	24,289	5.59%
345.00	Harbor Generating Unit 13 (Combustion Turbine) Gt Lm6000 :	444,123	0%	0	24,430	419,692	2032	17	0.0008	16.9	24,857	5.60%
345.00	Harbor Generating Unit 14 (Combustion Turbine) Gt Lm6000 :	155,074	0%	0	4,907	150,167	2032	17	0.0008	16.9	8,894	5.74%
345.00	Haynes Generating Unit 09 (Gas Turbine) : HNGS-U09	1,034,158	0%	0	162,086	872,072	2035	20	0.0008	19.8	43,955	4.25%
345.00	Haynes Generating Unit 10 (Gas Turbine) : HNGS-U10	1,040,825	0%	0	160,159	880,666	2035	20	0.0008	19.8	44,388	4.26%
345.00	Pine Tree Windfarm Project	59,434,061	0%	0	13,008,203	46,425,858	2034	19	0.0008	18.9	2,462,179	4.14%
345.00	Solar - Other Entries	8,157,394	0%	0	205,127	7,952,267	2032	17	0.0008	16.9	470,983	5.77%
345.00	Valley Generating Unit 5 (Combustion Turbine) : VGS-U05	159,243	0%	0	5,559	153,684	2031	16	0.0008	15.9	9,667	6.07%
345.00	Valley Generating Unit 6 (Combined Cycle) : VGS-U06	1,352,027	0%	0	135,191	1,216,836	2033	18	0.0008	17.9	68,092	5.04%
345.00	Valley Generating Unit 7 (Combined Cycle) : VGS-U07	1,319,936	0%	0	133,598	1,186,337	2033	18	0.0008	17.9	66,386	5.03%
345.00	Valley Generating Unit 8 (Gas Turbine) : VGS-U08	4,824	0%	0	3,210	1,614	2033	18	0.0008	17.9	90	1.87%
	Total Account 345.00	$74,339,153		$0	$13,894,502	$60,444,651					$3,275,758	4.41%

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Account	Description	Original Cost	Estimated Net Salvage %	Estimated Net Salvage Amount ($)	Depreciation Reserve	Amount to be Recovered	Estimated Retirement Year	Remaining Life Span at FYE 2015	Interim Retirement Rate	Adjusted Remaining Life Span	Annual Accrual Amount	Annual Accrual Rate
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
346.00	**Miscellaneous Power Plant Equipment**											
346.00	Harbor Generating Common Unit 1 & 2	$5,434,053	0%	$0	$5,126,032	$308,021	2027	12	0.0000	12.0	$25,668	0.47%
346.00	Harbor Generating Unit 1 (Combined Cycle) : HGS-U01	2,054	0%	0	0	2,054	2027	12	0.0000	12.0	171	8.33%
346.00	Harbor Generating Unit 2 (Combined Cycle) : HGS-U02	2,054	0%	0	0	2,054	2027	12	0.0000	12.0	171	8.33%
346.00	Harbor Generating Unit 10 (Combustion Turbine) Gt Lm6000 :	2,054	0%	0	0	2,054	2032	17	0.0000	17.0	121	5.88%
346.00	Harbor Generating Unit 11 (Combustion Turbine) Gt Lm6000 :	2,054	0%	0	0	2,054	2032	17	0.0000	17.0	121	5.88%
346.00	Harbor Generating Unit 12 (Combustion Turbine) Gt Lm6000 :	2,054	0%	0	0	2,054	2032	17	0.0000	17.0	121	5.88%
346.00	Harbor Generating Unit 13 (Combustion Turbine) Gt Lm6000 :	2,054	0%	0	0	2,054	2032	17	0.0000	17.0	121	5.88%
346.00	Harbor Generating Unit 14 (Combustion Turbine) Gt Lm6000 :	2,040	0%	0	0	2,040	2032	17	0.0000	17.0	120	5.88%
346.00	Haynes Generating Unit 09 (Gas Turbine) : HNGS-U09	2,025	0%	0	0	2,025	2035	20	0.0000	20.0	101	5.00%
346.00	Haynes Generating Unit 10 (Gas Turbine) : HNGS-U10	2,025	0%	0	0	2,025	2035	20	0.0000	20.0	101	5.00%
346.00	Solar - Other Entries	751,832	0%	0	0	751,832	2032	17	0.0000	17.0	44,225	5.88%
346.00	Valley Generating Unit 5 (Combustion Turbine) : VGS-U05	35,704	0%	0	0	35,704	2031	16	0.0000	16.0	2,231	6.25%
346.00	Valley Generating Unit 6 (Combined Cycle) : VGS-U06	103,567	0%	0	0	103,567	2033	18	0.0000	18.0	5,754	5.56%
346.00	Valley Generating Unit 7 (Combined Cycle) : VGS-U07	103,567	0%	0	0	103,567	2033	18	0.0000	18.0	5,754	5.56%
	Total Account 346.00	$6,447,138		$0	$5,126,032	$1,321,106					$84,781	1.32%
	TOTAL OTHER PRODUCTION PLANT	$2,278,113,016		$0	$667,134,012	$1,610,979,004					$75,593,776	3.32%
	TOTAL PRODUCTION PLANT	$4,048,511,860		($70,751,137)	$1,533,370,416	$2,585,892,581					$121,812,377	3.01%

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Account	Description	Original Cost	Estimated Net Salvage %	Estimated Net Salvage Amount ($)	Depreciation Reserve	Amount to be Recovered	Survivor Curve	Average Service Life	Average Remaining Life	Annual Accrual Amount	Annual Accrual Rate
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
	TRANSMISSION PLANT										
352.00	Structures and Improvements	$62,048,614	-6%	($3,722,917)	$13,540,781	$52,230,750	S3	60	43.51	$1,200,412	1.93%
353.00	Station Equipment	167,371,986	-6%	(10,042,319)	50,811,246	126,603,059	R1.5	50	37.22	3,401,057	2.03%
354.00	Towers and Fixtures	112,043,302	-6%	(6,722,598)	43,472,624	75,293,276	R5	65	39.92	1,886,231	1.68%
356.00	Overhead Conductors and Devices	121,829,071	-6%	(7,309,744)	34,535,552	94,603,264	S3	60	41.62	2,273,103	1.87%
357.00	Underground Conduit	51,797,520	-6%	(3,107,851)	15,293,662	39,611,710	R5	70	57.89	684,203	1.32%
358.00	Underground Conductors and Devices	38,740,720	-6%	(2,324,443)	13,194,701	27,870,462	R3	55	43.08	646,909	1.67%
359.00	Roads and Trails	6,252,835	-6%	(375,170)	4,518,640	2,109,364	R5	60	34.23	61,623	0.99%
	Total Transmission Plant	$560,084,048		($33,605,043)	$175,367,205	$418,321,885				$10,153,537	1.81%
	DISTRIBUTION PLANT										
361.00	Structures and Improvements	$275,825,075	-29%	($79,989,272)	$78,419,605	$277,394,742	R2	60	45.82	$6,054,096	2.19%
362.00	Station Equipment	955,638,529	-29%	(277,135,173)	219,959,689	1,012,814,014	R1.5	50	38.00	26,649,675	2.79%
364.00	Poles, Towers and Fixtures	1,307,951,418	-29%	(379,305,911)	478,283,292	1,208,974,037	R0.5	50	44.42	27,214,883	2.08%
365.00	Overhead Conductors and Devices	265,197,573	-29%	(76,907,296)	146,478,021	195,626,848	R0.5	50	40.55	4,824,064	1.82%
366.00	Underground Conduit	590,059,512	-29%	(171,117,258)	110,477,676	650,699,095	S1	65	51.80	12,561,417	2.13%
367.00	Underground Conductors and Devices	612,670,923	-29%	(177,674,568)	185,009,115	605,336,376	S0	40	30.38	19,927,094	3.25%
368.00	Line Transformers	454,898,775	-29%	(131,920,645)	103,275,231	483,544,188	R2	32	23.24	20,805,372	4.57%
369.00	Services	255,567,447	-29%	(74,114,559)	126,646,227	203,035,779	R3	45	29.27	6,937,225	2.71%
370.00	Meters	214,189,786	0%	0	72,626,563	141,563,223	S1	25	17.88	7,915,763	3.70%
371.00	Installation On Customer Premises	402,493	0%	0	327,377	75,116	SQ	30	9.43	7,962	1.98%
373.00	Street Lighting and Signal Systems	37,175,628	-29%	(10,780,932)	16,066,882	31,889,679	L3	20	12.26	2,601,749	7.00%
	Total Distribution Plant	$4,969,577,158		($1,378,945,615)	$1,537,569,677	$4,810,953,097				$135,499,299	2.73%
	GENERAL PLANT										
390.00	Structures and Improvements	$347,125,025	6%	$20,827,501	$188,277,696	$138,019,827	S4	60	43.26	$3,190,147	0.92%
391.00	Office Furniture and Equipment										
391.00	Furniture and Office Equipment	49,509,488	6%	2,970,569	19,161,584	27,377,334	0%	0	10.63	2,575,467	5.20%
391.00	Computer Equipment	23,414,558	0%	0	14,115,830	9,298,728	0%	0	2.98	3,115,953	13.31%
391.00	MIS/Servers and Mainframe Equipment	44,523,034	0%	0	25,468,885	19,054,149	0%	0	10.26	1,856,296	4.17%
	Subtotal	117,447,080		2,970,569	58,746,300	55,730,210				7,547,716	6.43%
392.00	Transportation Equipment	17,158,332	6%	1,029,500	6,232,280	9,896,552	L5	15	7.86	1,259,560	7.34%
393.00	Stores Equipment	794,455	0%	0	711,190	83,265	SQ	25	2.52	33,055	4.16%
394.00	Tools, Shop and Garage Equipment	6,063,137	0%	0	3,518,928	2,544,209	SQ	15	10.48	242,813	4.00%
395.00	Laboratory Equipment	17,194,171	0%	0	12,200,916	4,993,255	SQ	25	8.84	564,981	3.29%
396.00	Power Operated Equipment	24,312,699	6%	1,458,762	9,989,013	12,864,925	R1	15	11.54	1,115,161	4.59%
397.00	Communication Equipment	348,655,376	0%	0	132,779,330	215,876,047	SQ	25	14.54	14,848,375	4.26%
398.00	Miscellaneous Equipment	9,477,826	6%	568,670	3,939,317	4,969,840	SQ	25	15.36	323,613	3.41%
	Total General Plant	$888,228,101		$26,855,002	$416,394,969	$444,978,129				$29,125,421	3.28%
		$1,144,731									
	PACIFIC INTERTIE										
352.00	Structures and Improvements	$17,603,373	-6%	($1,056,202)	$9,853,944	$8,805,631	S3	60	43.51	$202,379	1.15%
353.00	Station Equipment	104,341,501	-6%	(6,260,490)	29,210,649	81,391,342	R1.5	50	37.22	2,186,492	2.10%
354.00	Towers and Fixtures	4,313,369	-6%	(258,802)	369,823	4,202,349	R5	65	39.92	105,276	2.44%
356.00	Overhead Conductors and Devices	8,414,157	-6%	(504,849)	2,006,541	6,912,465	S3	60	41.62	166,091	1.97%
359.00	Roads and Trails	147,642	-6%	(8,859)	59,050	97,451	R5	60	41.62	2,342	1.59%
	Total Pacific Intertie	$134,820,043		($8,089,203)	$41,500,008	$101,409,237				$2,662,580	1.97%

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Account	Description	Original Cost	Estimated Net Salvage %	Estimated Net Salvage Amount ($)	Depreciation Reserve	Amount to be Recovered	Survivor Curve	Average Service Life	Average Remaining Life	Annual Accrual Amount	Annual Accrual Rate
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
	WESTERN NAVAJO										
352.00	Structures and Improvements	$795,306	-6%	($47,718)	$314,881	$528,143	S3	60	43.51	$12,138	1.53%
353.00	Station Equipment	17,082,011	-6%	(1,024,921)	2,919,391	15,187,541	R1.5	50	37.22	407,997	2.39%
354.00	Towers and Fixtures	10,003,539	-6%	(600,212)	7,199,219	3,404,532	R5	65	39.92	85,290	0.85%
356.00	Overhead Conductors and Devices	7,747,879	-6%	(464,873)	5,609,117	2,603,635	S3	60	41.62	62,559	0.81%
359.00	Roads and Trails	1,072,443	-6%	(64,347)	673,857	462,933	R5	60	41.62	11,123	1.04%
397.00	Communication Equipment	10,183,229	0%	0	917,115	9,266,114	SQ	25	41.62	222,644	2.19%
	Total Western Navajo	$46,884,406		($2,202,071)	$17,633,579	$31,452,897				$801,752	1.71%
	HOOVER										
353.00	Station Equipment	$19,371	-6%	($1,162)	$13,072	$7,461	R1.5	50	43.51	$171	0.89%
	Total Hoover	$19,371		($1,162)	$13,072	$7,461				$171	0.89%
	SINKING FUND BALANCE										
311.00-337.00	Production	$35,317,060	n/a	$14,791	$29,560,760	$5,741,509	n/a	n/a	n/a	$1,492,829	4.23%
352.00-359.00	Transmission	209,112,101	n/a	751,262	128,349,678	80,011,161	n/a	n/a	n/a	7,168,746	3.43%
361.00-373.00	Distribution	1,765,324,398	n/a	14,258,135	1,190,639,171	560,427,092	n/a	n/a	n/a	73,790,094	4.18%
	Subtotal	$2,009,753,559		$15,024,188	$1,348,549,609	$646,179,762				$82,451,669	4.10%
	SINKING FUND BALANCE - PACIFIC INTERTIE										
352.00	Structures and Improvements	$1,173,516	n/a	$3,518	$707,688	$462,310	n/a	n/a	n/a	$38,902	3.32%
353.00	Station Equipment	7,971,329	n/a	40,362	4,455,235	3,475,733	n/a	n/a	n/a	263,123	3.30%
354.00	Towers and Fixtures	16,669,851	n/a	38,682	12,061,031	4,570,138	n/a	n/a	n/a	641,734	3.85%
356.00	Overhead Conductors and Devices	12,038,138	n/a	36,089	8,752,899	3,249,150	n/a	n/a	n/a	473,734	3.94%
359.00	Roads and Trails	1,100,948	n/a	3,301	854,619	243,028	n/a	n/a	n/a	46,031	4.18%
	Total Pacific Intertie	$38,953,782		$121,951	$26,831,472	$12,000,359				$1,463,525	3.76%
	SINKING FUND BALANCE - WESTERN NAVAJO										
352.00	Structures and Improvements	$2,792,243	n/a	$8,371	$2,515,718	$268,154	n/a	n/a	n/a	$134,157	4.80%
353.00	Station Equipment	24,674,011	n/a	124,933	22,465,376	2,083,701	n/a	n/a	n/a	1,248,202	5.06%
	Total Western Navajo	$27,466,254		$133,304	$24,981,095	$2,351,855				$1,382,358	5.03%
	SINKING FUND BALANCE - HOOVER										
353.00	Station Equipment	$843,445	n/a	$4,271	$622,760	$216,414	n/a	n/a	n/a	$35,409	4.20%
	Total Hoover	$843,445		$4,271	$622,760	$216,414				$35,409	4.20%
	TOTAL SINKING FUND BALANCE	$2,077,017,040		$15,283,714	$1,400,984,935	$660,531,976				$85,332,961	4.11%
	TOTAL DEPRECIABLE PLANT	**$12,725,142,027**		**($1,451,455,515)**	**$5,122,833,863**	**$9,053,547,265**				**$385,388,097**	3.03%

Los Angeles Department of Water and Power
Calculation of Annual Depreciation Accrual Rates
Based on Plant in Service at June 30, 2015
Schedule 1C - Items Excluded from Depreciation Study

Account	Description	Original Cost	Depreciation Reserve	Amount to be Recovered
(A)	(B)	(C)	(D)	(E)
	EXCLUDED FROM DEPRECIATION STUDY			
	HOOVER POWER PLANT			
330.00	Land and Land Rights	$38,797	$0	$38,797
331.00	Structures and Improvements	363,181	302,793	60,388
332.00	Reservoirs, Dams and Waterways	10	10	(0)
335.00	Miscellaneous Power Plant Equipment	123,766	88,128	35,639
	Total Hoover Power Plant	$525,754	$390,931	$134,823
	ACCOUNT 400 - Reserves			
	Steam Production	$0	$1,319,090	($1,319,090)
	Hydraulic Production	0	1,173	(1,173)
	Transmission	0	20,731,745	(20,731,745)
	Distribution	0	7,471,594	(7,471,594)
	General Plant	0	128,751	(128,751)
	Total Account 400	$0	$29,652,354	($29,652,354)
	DECOMMISSIONING COST			
311.00	Mohave Generating Common	$6,167,977	$0	$6,167,977
315.00	Mohave Generating Common	1,483,078	0	1,483,078
	Total Decommissioning Costs	$7,651,055	$0	$7,651,055
	CLEARING ACCOUNTS			
392.00	Transportation Equipment	$249,740,028	$176,117,765	$73,622,263
396.00	Power Operated Equipment	47,876,502	23,889,630	23,986,872
	Total Clearing Accounts	$297,616,529	$200,007,395	$97,609,135
	INTANGIBLE PLANT			
303.00	Miscellaneous Intangible Plant-Nuclear Production Plant	$18,315,128	$0	$18,315,128
303.00	Miscellaneous Intangible Plant-Other Production Plant	(8,215)	0	(8,215)
303.00	Miscellaneous Intangible Plant-Transmission Plant	1,958,045	0	1,958,045
303.00	Miscellaneous Intangible Plant-Distribution Plant	25,433,983	0	25,433,983
303.00	Miscellaneous Intangible Plant-General Plant	151,514,949	0	151,514,949
	Total Intangible Plant	$197,213,888	$0	$197,213,888
	LAND AND LAND RIGHTS			
310.00	Land and Land Rights-Steam Production	$5,632,607	$0	$5,632,607
320.00	Land and Land Rights-Nuclear Production	1,436,285	0	1,436,285
330.00	Land and Land Rights-Hydraulic Production	1,087,375	0	1,087,375
337.00	Land and Land Rights-Asset Retirement Costs	1,069,055	0	1,069,055
340.00	Land and Land Rights-Other Production	59,124,200	0	59,124,200
350.00	Land and Land Rights-Transmission Plant	70,021,320	0	70,021,320
350.00	Land and Land Rights-Transmission Plant: Pacific Intertie	9,269,753	0	9,269,753
350.00	Land and Land Rights-Transmission Plant: Western Navajo	815,966	0	815,966
360.00	Land and Land Rights-Distribution Plant	42,715,711	0	42,715,711
389.00	Land and Land Rights-General Plant	5,773,234	0	5,773,234
	Total Land and Land Rights	$196,945,505	$0	$196,945,505
	RETIRED AND SOLD PRODUCTION PLANT			
311.00	Structures and Improvements	$29,470,509	$24,087,152	$5,383,357
312.00	Boiler Plant Equipment	121,681,996	104,831,685	16,850,311
314.00	Turbogenerator Units	37,835,361	33,458,925	4,376,437
315.00	Accessory Electric Equipment	40,286,488	32,557,174	7,729,314
316.00	Miscellaneous Power Plant Equipment	8,510,960	7,965,593	545,367
344.00	Generators	3,698	1,102	2,596
	Total Retired and Sold Production Plant	$237,789,012	$202,901,630	$34,887,381

Los Angeles Department of Water and Power
Calculation of Annual Depreciation Accrual Rates
Based on Plant in Service at June 30, 2015
Schedule 1C - Items Excluded from Depreciation Study

Account	Description	Original Cost	Depreciation Reserve	Amount to be Recovered
(A)	(B)	(C)	(D)	(E)
	FULLY DEPRECIATED STRAIGHT LINE			
311.00-345.00	Production	$525,496,921	$524,152,240	$1,344,681
352.00-358.00	Transmission	4,874,250	4,874,250	0
361.00-373.00	Distribution	116,664,182	137,115,654	(20,451,471)
390.00-397.00	General Plant	198,441,432	186,883,566	11,557,866
	Total	$845,476,785	$853,025,709	($7,548,925)
	FULLY DEPRECIATED STRAIGHT LINE - PACIFIC INTERTIE			
352.00	Structures and Improvements	$2,954	$3,249	($295)
353.00	Station Equipment	(83,733)	(92,106)	8,373
	Total Pacific Intertie	($80,779)	($88,858)	$8,079
	FULLY DEPRECIATED STRAIGHT LINE - WESTERN NAVAJO			
353.00	Station Equipment	$9,519	$9,995	($476)
397.00	Communication Equipment	262,068	275,172	(13,104)
	Total Western Navajo	$271,588	$285,167	($13,579)
	TOTAL FULLY DEPRECIATED STRAIGHT LINE	$845,667,593	$853,222,019	($7,554,425)
	FULLY DEPRECIATED SINKING FUND			
311.00-337.00	Production	$553,848,886	$558,281,034	($4,432,147)
352.00-358.00	Transmission	26,890,727	26,890,727	0
361.00-373.00	Distribution	496,710,535	506,005,850	(9,295,316)
390.00-398.00	General Plant	108,012,043	106,720,167	1,291,875
	Subtotal	$1,185,462,190	$1,197,897,778	($12,435,588)
	FULLY DEPRECIATED SINKING FUND-PACIFIC INTERTIE			
352.00	Structures and Improvements	$551,699	$606,870	($55,171)
353.00	Station Equipment	2,282,744	3,737,916	(1,455,173)
	Total Pacific Intertie	$2,834,443	$4,344,786	($1,510,343)
	FULLY DEPRECIATED SINKING FUND-WESTERN NAVAJO			
397.00	Communication Equipment	$132,984	$139,634	($6,650)
	Total Western Navajo	$132,984	$139,634	($6,650)
	FULLY DEPRECIATED SINKING FUND-HOOVER POWER PLANT			
332.00	Reservoirs, Dams and Waterways	$30	$32	($2)
	Total Hoover Power Plant	$30	$32	($2)
	TOTAL FULLY DEPRECIATED SINKING FUND	$1,188,429,648	$1,202,382,230	($13,952,582)
	RETIRED PRODUCTION PLANT SINKING FUND			
341.00	Structures and Improvements	$187,772	$46,634	$141,139
		$187,772	$46,634	$141,139
	TOTAL ELECTRIC PLANT	**$15,697,168,784**	**$7,611,437,054**	**($968,031,950)**

SCHEDULE 2
Calculation of Annual Depreciation Accrual Rates for Sinking Fund Accounts Based on Plant in Service at June 30, 2015

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Los Angeles Department of Water and Power
Calculation of Annual Depreciation Accrual Rates
Calculation of Annual Depreciation Accrual Rates for Sinking Fund Accounts
Schedule 2A - Production Plant

FERC Account	Description	Original Cost at 6/30/15	Life Span	Interim Retirement Rate	Adjusted Life Span	Annuity Rate	Annuity Amount	Net Salvage	Annuity incl. Net Salvage Rate	Annuity incl. Net Salvage Amount	Depreciation Reserve at 6/30/15	Book Reserve Ratio	Interest on Reserve	Depreciation Accrual	Depreciation Rate
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)
	PRODUCTION														
311.00	P 31110 Str, Olympic Tank Farm SF	$1,445,604	70	0.0003	69.3	0.00176338	$2,549	0%	0.00176338	$2,549	$1,413,929	0.9781	$70,696	$73,246	5.07%
311.00	P 31120 Impv, Olympic Tank Farm SF	2,050,653	70	0.0003	69.3	0.00176338	3,616	0%	0.00176338	3,616	1,628,020	0.7939	81,401	85,017	4.15%
	Total Account 311.00	$3,496,257					$6,165			$6,165	$3,041,949		$152,097	$158,263	4.53%
331.00	P 33110 Stru, Big Pine Unit 1 SF	$414,801	131	0.0005	126.7	0.00010351	$43	0%	0.00010351	$43	$267,527	0.6450	$13,376	$13,419	3.24%
331.00	P 33110 Stru, Cottonwood U1 & 2 SF	31,403	148	0.0005	142.5	0.00004780	2	0%	0.00004780	2	31,139	0.9916	1,557	1,558	4.96%
331.00	P 33110 Stru, Foothill Unit 1 SF	591,005	85	0.0005	83.2	0.00087845	519	0%	0.00087845	519	564,736	0.9556	28,237	28,756	4.87%
331.00	P 33110 Stru, Franklin Plant U1 SF	104,033	135	0.0005	130.4	0.00008624	9	0%	0.00008624	9	86,143	0.8280	4,307	4,316	4.15%
331.00	P 33110 Stru, Lone Pine Yard SF	13,666	87	0.0005	85.1	0.00079888	11	0%	0.00079888	11	8,253	0.6039	413	424	3.10%
331.00	P 33110 Stru, Owens Valley Hydro SF	83,208	133	0.0005	128.6	0.00009448	8	0%	0.00009448	8	26,109	0.3138	1,305	1,313	1.58%
331.00	P 33110 Stru, San Francisquito 1 SF	1,258,922	139	0.0005	134.2	0.00007188	90	0%	0.00007188	90	1,025,146	0.8143	51,257	51,348	4.08%
331.00	P 33110 Stru, San Francisquito 2 SF	656,227	137	0.0005	132.3	0.00007873	52	0%	0.00007873	52	642,634	0.9793	32,132	32,183	4.90%
	Total Account 331.00	$3,153,266					$734			$734	$2,651,688		$132,584	$133,318	4.23%
332.00	P 33210 Resv, Big Pine Lake Resv SF	$150,011	127	0.0001	126.2	0.00010615	$16	0%	0.00010615	$16	$142,285	0.9485	$7,114	$7,130	4.75%
332.00	P 33210 Resv, Bouquet Canyon Res SF	1,708,639	122	0.0001	121.3	0.00013515	231	0%	0.00013515	231	1,302,136	0.7621	65,107	65,338	3.82%
332.00	P 33210 Resv, Drinkwater Reserv SF	956,574	139	0.0001	138.0	0.00005952	57	0%	0.00005952	57	717,120	0.7497	35,856	35,913	3.75%
332.00	P 33210 Resv, Upper Dry Canyon SF	841,144	144	0.0001	143.0	0.00004678	39	0%	0.00004678	39	597,225	0.7100	29,861	29,901	3.55%
332.00	P 33210 Resv, Upper Franklin Cyn SF	1,101,755	135	0.0001	134.1	0.00007217	80	0%	0.00007217	80	765,330	0.6946	38,267	38,346	3.48%
332.00	P 33220 Wtrwy, Big Pine Unit 1 SF	108,587	131	0.0001	130.1	0.00008752	10	0%	0.00008752	10	98,530	0.9074	4,927	4,936	4.55%
332.00	P 33220 Wtrwy, Foothill Unit 1 SF	32,833	85	0.0001	84.6	0.00081767	27	0%	0.00081767	27	24,427	0.7440	1,221	1,248	3.80%
332.00	P 33230 FP&T, Control Gorge U1 SF	3,927,144	104	0.0001	103.5	0.00032325	1,269	0%	0.00032325	1,269	3,731,417	0.9502	186,571	187,840	4.78%
332.00	P 33230 FP&T, Division Creek U1 SF	83,312	147	0.0001	145.9	0.00004049	3	0%	0.00004049	3	65,193	0.7825	3,260	3,263	3.92%
332.00	P 33230 FP&T, Foothill Unit 1 SF	825,016	85	0.0001	84.6	0.00081767	675	0%	0.00081767	675	788,891	0.9562	39,445	40,119	4.86%
332.00	P 33230 FP&T, Franklin Unit 1 SF	448,509	135	0.0001	134.1	0.00007217	32	0%	0.00007217	32	340,541	0.7593	17,027	17,059	3.80%
332.00	P 33230 FP&T, Haiwee Units 1 & 2 SF	986,522	129	0.0001	128.2	0.00009639	95	0%	0.00009639	95	976,514	0.9899	48,826	48,921	4.96%
332.00	P 33230 FP&T, Middle Gorge U1 SF	2,020,537	104	0.0001	103.5	0.00032325	653	0%	0.00032325	653	2,014,918	0.9972	100,746	101,399	5.02%
332.00	P 33230 FP&T, Pleasant Valley U1 SF	68,435	98	0.0001	97.5	0.00043285	30	0%	0.00043285	30	28,118	0.4109	1,406	1,436	2.10%
332.00	P 33230 FP&T, San FrancisquitoU1 SF	1,507,551	139	0.0001	138.0	0.00005952	90	0%	0.00005952	90	1,463,328	0.9707	73,166	73,256	4.86%
332.00	P 33230 FP&T, Upper Gorge Unit 1 SF	2,857,552	103	0.0001	102.5	0.00033935	970	0%	0.00033935	970	2,099,795	0.7348	104,990	105,959	3.71%
	Total Account 332.00	$17,624,121					$4,276			$4,276	$15,155,768		$757,788	$762,064	4.32%
334.00	P 33400 Acc Eq, Control Gorge U1 SF	$404,464	104	0.0040	82.4	0.00091522	$370	0%	0.00091522	$370	$353,462	0.8739	$17,673	$18,043	4.46%
334.00	P 33400 Acc Eq, Cottonwood 1 & 2 SF	473,492	148	0.0040	104.2	0.00031183	148	0%	0.00031183	148	287,812	0.6079	14,391	14,538	3.07%
334.00	P 33400 Acc Eq, Division Creek 1 SF	7,774	147	0.0040	103.8	0.00031817	2	0%	0.00031817	2	187	0.0241	9	12	0.15%
334.00	P 33400 Acc Eq, Franklin Unit 1 SF	50,907	135	0.0040	98.6	0.00041146	21	0%	0.00041146	21	49,638	0.9751	2,482	2,503	4.92%
334.00	P 33400 Acc Eq, Haiwee U1 & 2 SF	505,693	129	0.0040	95.7	0.00047300	239	0%	0.00047300	239	301,533	0.5963	15,077	15,316	3.03%
334.00	P 33400 Acc Eq, Middle Gorge U1 SF	190,173	104	0.0040	82.4	0.00091522	174	0%	0.00091522	174	168,777	0.8875	8,439	8,613	4.53%
334.00	P 33400 Acc Eq, Owens Valley SF	48,042	133	0.0040	97.6	0.00043068	21	0%	0.00043068	21	19,110	0.3978	956	976	2.03%
334.00	P 33400 Acc Eq, San Francisqto 1 SF	2,763,596	139	0.0040	100.4	0.00037645	1,040	0%	0.00037645	1,040	2,295,154	0.8305	114,758	115,798	4.19%
334.00	P 33400 Acc Eq, San Francisqto 2 SF	2,514,134	137	0.0040	99.5	0.00039341	989	0%	0.00039341	989	1,839,563	0.7317	91,978	92,967	3.70%
334.00	P 33400 Acc Eq, Upper Gorge U1 SF	194,652	103	0.0040	81.8	0.00094227	183	0%	0.00094227	183	175,947	0.9039	8,797	8,981	4.61%
	Total Account 334.00	$7,152,926					$3,188			$3,188	$5,491,185		$274,559	$277,747	3.88%
335.00	P 33500 Misc Eq, Owens Valley SF	$40	133	0.0020	115.3	0.00018079	$0	0%	0.00018079	$0	$10	0.2565	$1	$1	1.30%
	Total Account 335.00	$40					$0			$0	$10		$1	$1	1.30%
337.00	P 33700 AJCE Bouquet Canyon SF	$2,438,125	122	0.0000	122.0	0.00013032	$318	0%	0.00013032	$318	$2,267,306	0.9299	$113,365	$113,683	4.66%
337.00	P 33700 AJCE, Owens Valley Hydro SF	1,452,325	133	0.0000	133.0	0.00007611	111	0%	0.00007611	111	952,854	0.6561	47,643	47,753	3.29%
	Total Account 337.00	$3,890,450					$428			$428	$3,220,160		$161,008	$161,436	4.15%
	TOTAL SINKING FUND - PRODUCTION	$35,317,060					$14,791			$14,791	$29,560,760	$15	$1,478,038	$1,492,829	4.23%

Sinking fund interest rate = 5%

Los Angeles Department of Water and Power
Calculation of Annual Depreciation Accrual Rates for Sinking Fund Accounts
Based on Plant in Service at June 30, 2015
Schedule 2B - Mass Property Accounts

Account	Description	Original Cost at 6/30/15	Service Life	Annuity Rate	Annuity Amount	Net Salvage	Annuity incl. Net Salvage Rate	Annuity incl. Net Salvage Amount	Depreciation Reserve at 6/30/15	Book Reserve Ratio	Interest on Reserve	Depreciation Accrual	Depreciation Rate
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
352.00	Structures and Improvements	$12,686,938	60	0.00282818	$35,881	-6%	0.00299788	$38,034	$4,490,123	0.3539	$224,506	$262,540	2.07%
352.00	Structures and Improvements - Pacific Intertie	1,173,516	60	0.00282818	3,319	-6%	0.00299788	3,518	707,688	0.6030	35,384	38,902	3.32%
352.00	Structures and Improvements - Western Navajo	2,792,243	60	0.00282818	7,897	-6%	0.00299788	8,371	2,515,718	0.9010	125,786	134,157	4.80%
	Total Account 352.00	$16,652,697			$47,097			$49,923	$7,713,529		$385,676	$435,599	2.62%
353.00	Station Equipment	$85,038,788	50	0.00477674	$406,208	-6%	0.00506334	$430,580	$60,893,813	0.7161	$3,044,691	$3,475,271	4.09%
353.00	Station Equipment - Pacific Intertie	7,971,329	50	0.00477674	38,077	-6%	0.00506334	40,362	4,455,235	0.5589	222,762	263,123	3.30%
353.00	Station Equipment - Western Navajo	24,674,011	50	0.00477674	117,861	-6%	0.00506334	124,933	22,465,376	0.9105	1,123,269	1,248,202	5.06%
353.00	Station Equipment - Hoover Power Plant	843,445	50	0.00477674	4,029	-6%	0.00506334	4,271	622,760	0.7384	31,138	35,409	4.20%
	Total Account 353.00	$118,527,572			$566,175			$600,145	$88,437,185		$4,421,859	$5,022,005	4.24%
354.00	Towers and Fixtures	$45,947,471	65	0.00218915	$100,586	-6%	0.00232050	$106,621	$28,489,169	0.6200	$1,424,458	$1,531,080	3.33%
354.00	Towers and Fixtures - Pacific Intertie	16,669,851	65	0.00218915	36,493	-6%	0.00232050	38,682	12,061,031	0.7235	603,052	641,734	3.85%
	Total Account 354.00	$62,617,322			$137,079			$145,304	$40,550,200		$2,027,510	$2,172,814	3.47%
356.00	Overhead Conductors and Devices	$44,549,379	60	0.00282818	$125,994	-6%	0.00299788	$133,553	$23,672,226	0.5314	$1,183,611	$1,317,165	2.96%
356.00	Overhead Conductors and Devices - Pacific Intert	12,038,138	60	0.00282818	34,046	-6%	0.00299788	36,089	8,752,899	0.7271	437,645	473,734	3.94%
	Total Account 356.00	$56,587,517			$160,040			$169,642	$32,425,126		$1,621,256	$1,790,899	3.16%
357.00	Underground Conduit	$16,837,950	70	0.00169915	$28,610	-6%	0.00180110	$30,327	$6,968,275	0.4138	$348,414	$378,741	2.25%
	Total Account 357.00	$16,837,950			$28,610			$30,327	$6,968,275		$348,414	$378,741	2.25%
359.00	Roads and Trails	$4,051,575	60	0.00282818	$11,459	-6%	0.00299788	$12,146	$3,836,071	0.9468	$191,804	$203,950	5.03%
359.00	Roads and Trails - Pacific Intertie	1,100,948	60	0.00282818	3,114	-6%	0.00299788	3,301	854,619	0.7763	42,731	46,031	4.18%
	Total Account 359.00	$5,152,523			$14,572			$15,447	$4,690,690		$234,535	$249,981	4.85%
	TOTAL TRANSMISSION	$276,375,582			$953,573			$1,010,787	$180,785,005		$9,039,250	$10,050,038	3.64%
361.00	Structures and Improvements	$146,014,667	60	0.00282818	$412,956	-29%	0.00364836	$532,714	$73,313,666	0.5021	$3,665,683	$4,198,397	2.88%
362.00	Station Equipment	633,593,712	50	0.00477674	3,026,510	-29%	0.00616199	3,904,197	391,720,634	0.6183	19,586,032	23,490,229	3.71%
366.00	Underground Conduit	383,253,174	65	0.00218915	838,999	-29%	0.00282401	1,082,309	224,545,990	0.5859	11,227,300	12,309,608	3.21%
367.00	Underground Conductors and Devices	321,613,144	40	0.00827816	2,662,365	-29%	0.01067883	3,434,451	269,733,406	0.8387	13,486,670	16,921,122	5.26%
368.00	Line Transformers	182,177,868	32	0.01328042	2,419,398	-29%	0.01713174	3,121,024	140,678,925	0.7722	7,033,946	10,154,970	5.57%
370.00	Meters	92,223,878	25	0.02095246	1,932,317	0%	0.02095246	1,932,317	88,737,596	0.9622	4,436,880	6,369,197	6.91%
371.00	Installation On Customer Premises	17,976	30	0.01505144	271	0%	0.01505144	271	17,772	0.9887	889	1,159	6.45%
373.00	Street Lighting and Signal Systems	6,429,979	20	0.03024259	194,459	-29%	0.03901294	250,852	1,891,181	0.2941	94,559	345,411	5.37%
	TOTAL DISTRIBUTION	$1,765,324,398			$11,487,276			$14,258,135	$1,190,639,171		$59,531,959	$73,790,094	4.18%

Sinking fund interest rate = 5%

Note: Under the sinking fund method, the annual depreciation accrual is equal to the annual annuity, based on the interest rate and service life of the assets, plus interest on the beginning-of-year depreciation reserve. The annuity rate is equal to:

$$d_i = (1 - NS)\, x\, \frac{i}{(1+i)^L - 1}$$

where:

NS = net salvage rate
i = interest rate =
L = service life

The annual accrual = $d_i B + iU$

where:

B = plant balance
U = beginning-of-year depreciation reserve

SCHEDULE 3
Comparison of Depreciation Rates and Annual Accruals Based on Plant in Service at June 30, 2015

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Los Angeles Department of Water and Power
Comparison of Depreciation Rates and Annual Accruals
Based on Plant in Service at June 30, 2015
Schedule 3

			Existing		Proposed		
Account	Description	Original Cost	Depreciation Rate	Annual Accrual	Depreciation Rate	Annual Accrual	Change In Accrual
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
	STEAM PRODUCTION PLANT						
311.00	**Structures and Improvements**						
311.00	Harbor Generating Station : HGS	$6,164,230	2.00%	$123,285	8.26%	$509,050	$385,766
311.00	Harbor Generating Unit 5 (Combined Cycle) : HGS-U05	3,928,135	4.43%	173,860	7.15%	280,949	107,089
311.00	Haynes Generating Common Areas : HNGS-COMN	40,067,400	2.25%	903,482	3.73%	1,495,687	592,205
311.00	Haynes Generating Unit 02 : HNGS-U02	683,673	2.00%	13,673	9.78%	66,869	53,196
311.00	Marine Tank Farm	34,780,559	2.84%	989,431	4.42%	1,536,973	547,542
311.00	Olympic Tank Farm	652,382	2.37%	15,429	5.32%	34,713	19,284
311.00	Scattergood Generating Common : SGS-COMN	5,294,776	2.00%	105,896	15.92%	842,893	736,998
311.00	Scattergood Generating Unit 1 : SGS-U01	194,407	2.00%	3,888	15.43%	30,004	26,116
311.00	Scattergood Generating Unit 2 : SGS-U02	226,007	13.13%	29,663	6.35%	14,361	(15,302)
311.00	Valley Generating Common Areas : VGS-COMN	3,449,544	2.00%	68,991	6.23%	215,017	146,026
	Subtotal Account 311.00	$95,441,112	2.54%	$2,427,598	5.27%	$5,026,516	$2,598,918
311.00	Los Angeles (not assigned to a specific location)	$202,851	2.25%	$4,556	18.99%	$38,526	$33,970
311.00	Other Entries - Steam	2,936	2.00%	59	3.43%	101	42
	Subtotal Account 311.00: Composite Account(s)	$205,787	2.24%	$4,615	18.77%	$38,627	$34,012
	Total Account 311.00	$95,646,899	2.54%	$2,432,213	5.30%	$5,065,143	$2,632,930
312.00	**Boiler Plant Equipment**						
312.00	Harbor Generating Station : HGS	$2,334,208	3.57%	$83,365	7.55%	$176,145	$92,780
312.00	Harbor Generating Unit 5 (Combined Cycle) : HGS-U05	633,891	5.33%	33,786	3.49%	22,117	(11,670)
312.00	Haynes Generating Common Areas : HNGS-COMN	3,024,591	3.57%	108,021	2.83%	85,632	(22,389)
312.00	Haynes Generating Unit 01 : HNGS-U01	9,430,391	8.89%	838,384	3.99%	376,058	(462,326)
312.00	Haynes Generating Unit 02 : HNGS-U02	9,506,119	8.96%	851,636	5.52%	525,041	(326,594)
312.00	Haynes Generating Unit 08 (Steam Turbine) : HNGS-U08	14,061,145	2.00%	281,223	5.04%	708,666	427,443
312.00	Scattergood Generating Common : SGS-COMN	215,619	3.57%	7,701	8.24%	17,777	10,077
312.00	Scattergood Generating Unit 1 : SGS-U01	24,798,051	12.85%	3,187,255	6.33%	1,570,146	(1,617,109)
312.00	Scattergood Generating Unit 2 : SGS-U02	15,692,996	9.49%	1,489,933	6.37%	999,149	(490,784)
312.00	Valley Generating Common Areas : VGS-COMN	923,776	10.00%	92,378	6.17%	56,980	(35,397)
	Subtotal Account 312.00	$80,620,787	8.65%	$6,973,681	5.63%	$4,537,713	($2,435,969)
312.00	Los Angeles (not assigned to a specific location)	$43,473	2.00%	$869	19.33%	$8,401	$7,532
	Subtotal Account 312.00: Composite Account(s)	$43,473	2.00%	$869	19.33%	$8,401	$7,532
	Total Account 312.00	$80,664,260	8.65%	$6,974,551	5.64%	$4,546,114	($2,428,437)

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			Existing		Proposed		
Account	Description	Original Cost	Depreciation Rate	Annual Accrual	Depreciation Rate	Annual Accrual	Change In Accrual
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
314.00	**Turbogenerator Units**						
314.00	Harbor Generating Station : HGS	$215,385	4.00%	$8,615	6.38%	$13,732	$5,116
314.00	Harbor Generating Unit 5 (Combined Cycle) : HGS-U05	2,068,834	4.40%	91,111	2.67%	55,221	(35,891)
314.00	Haynes Generating Common Areas : HNGS-COMN	2,081,670	3.33%	69,389	3.94%	82,062	12,673
314.00	Haynes Generating Unit 01 : HNGS-U01	8,308,127	3.33%	276,938	10.35%	859,972	583,035
314.00	Haynes Generating Unit 02 : HNGS-U02	512,171	3.33%	17,072	10.39%	53,194	36,122
314.00	Haynes Generating Unit 08 (Steam Turbine) : HNGS-U08	126,180,116	3.33%	4,206,003	3.13%	3,953,218	(252,785)
314.00	Scattergood Generating Common : SGS-COMN	102,511	3.33%	3,417	12.74%	13,055	9,638
314.00	Scattergood Generating Unit 1 : SGS-U01	11,582,332	11.71%	1,355,712	9.21%	1,066,207	(289,505)
314.00	Scattergood Generating Unit 2 : SGS-U02	16,636,740	2.86%	475,335	16.31%	2,714,078	2,238,743
314.00	Scattergood Generating Units 4-7	19,402,428	2.86%	554,355	3.32%	644,621	90,266
314.00	Valley Generating Common Areas : VGS-COMN	991,112	3.33%	33,037	6.22%	61,640	28,603
314.00	Valley Generating Unit 8 (Gas Turbine) : VGS-U08	116,311,041	4.00%	4,652,442	3.25%	3,785,721	(866,721)
	Total Account 314.00	$304,392,467	3.86%	$11,743,427	4.37%	$13,302,722	$1,559,295
315.00	**Accessory Electric Equipment**						
315.00	Harbor Generating Station : HGS	$338,660	3.57%	$12,095	8.03%	$27,197	$15,102
315.00	Harbor Generating Unit 5 (Combined Cycle) : HGS-U05	620,087	5.52%	34,198	4.14%	25,663	(8,535)
315.00	Haynes Generating Common Areas : HNGS-COMN	2,145,315	3.57%	76,618	3.46%	74,265	(2,354)
315.00	Haynes Generating Unit 01 : HNGS-U01	1,235,737	8.58%	106,001	5.17%	63,828	(42,174)
315.00	Haynes Generating Unit 02 : HNGS-U02	1,281,989	3.57%	45,780	9.30%	119,183	73,403
315.00	Haynes Generating Unit 07 : HNGS-U07	335,990	3.57%	12,000	10.35%	34,761	22,762
315.00	Scattergood Generating Common : SGS-COMN	760,787	3.57%	27,171	10.13%	77,091	49,920
315.00	Scattergood Generating Unit 1 : SGS-U01	3,779,484	3.57%	134,982	13.17%	497,935	362,954
315.00	Scattergood Generating Unit 2 : SGS-U02	2,918,606	13.04%	380,469	11.40%	332,690	(47,779)
315.00	Valley Generating Common Areas : VGS-COMN	7,032,153	3.57%	251,148	5.32%	373,820	122,671
315.00	Valley Generating Unit 8 (Gas Turbine) : VGS-U08	4,595,084	3.57%	164,110	5.21%	239,420	75,310
	Total Account 315.00	$25,043,890	4.97%	$1,244,573	7.45%	$1,865,853	$621,281
316.00	**Miscellaneous Power Plant Equipment**						
316.00	Harbor Generating Station : HGS	$1,305,576	3.57%	$46,628	8.15%	$106,381	$59,753
316.00	Harbor Generating Unit 5 (Combined Cycle) : HGS-U05	209,999	5.64%	11,836	6.28%	13,185	1,349
316.00	Haynes Generating Common Areas : HNGS-COMN	4,101,235	4.68%	191,856	0.78%	32,132	(159,724)
316.00	Scattergood Generating Common : SGS-COMN	12,129,725	3.57%	433,205	12.24%	1,484,871	1,051,666
316.00	Valley Generating Common Areas : VGS-COMN	65,925	20.00%	13,185	2.30%	1,516	(11,669)
	Subtotal Account 316.00	$17,812,459	3.91%	$696,708	9.20%	$1,638,085	$941,376
316.00	Los Angeles (not assigned to a specific location)	$1,186,553	3.57%	$42,377	17.56%	$208,411	$166,034
316.00	Los Angeles Area (Southern Area), Power Distributior	927,064	20.00%	185,413	1.49%	13,825	(171,588)
	Subtotal Account 316.00: Composite Account(s)	$2,113,617	10.78%	$227,790	10.51%	$222,236	($5,554)
	Total Account 316.00	$19,926,077	4.64%	$924,498	9.34%	$1,860,321	$935,822
	TOTAL STEAM PRODUCTION PLANT	$525,673,594	4.44%	$23,319,262	5.07%	$26,640,153	$3,320,892

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Account	Description	Original Cost	Depreciation Rate	Annual Accrual	Depreciation Rate	Annual Accrual	Change In Accrual
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
	NUCLEAR PRODUCTION PLANT						
	Palo Verde Nuclear Station						
321.00	Structures and Improvements	$127,559,989	2.76%	$3,525,201	1.70%	$2,172,635	($1,352,566)
322.00	Reactor Plant Equipment	275,440,220	2.71%	7,461,676	1.65%	4,546,689	(2,914,986)
323.00	Turbogenerator Units	85,502,360	2.79%	2,381,241	1.80%	1,542,181	(839,059)
324.00	Accessory Electric Equipment	63,388,106	3.12%	1,975,807	1.14%	723,096	(1,252,711)
325.00	Miscellaneous Power Plant Equipmen	37,702,137	4.04%	1,523,166	1.73%	651,458	(871,708)
	TOTAL NUCLEAR PRODUCTION PLANT	$589,592,812	2.86%	$16,867,091	1.63%	$9,636,059	($7,231,031)
	HYDRAULIC PRODUCTION PLANT						
331.00	**Structures and Improvements**						
331.00	Big Pine Power Plant (Unit 1) : BPPP	$179,626	2.64%	$4,748	1.43%	$2,564	($2,183)
331.00	Castaic Power Plant Common Equipment : CPP-COMN	79,322,402	2.54%	2,011,977	0.74%	584,753	(1,427,223)
331.00	Castaic Power Plant Unit 1 : CPP-U01	5,878	2.83%	166	2.59%	152	(14)
331.00	Castaic Power Plant Unit 2 : CPP-U02	923	2.68%	25	2.56%	24	(1)
331.00	Castaic Power Plant Unit 3 : CPP-U03	923	2.68%	25	2.56%	24	(1)
331.00	Castaic Power Plant Unit 4 : CPP-U04	923	2.68%	25	2.56%	24	(1)
331.00	Castaic Power Plant Unit 5 : CPP-U05	923	2.68%	25	2.56%	24	(1)
331.00	Castaic Power Plant Unit 6 : CPP-U06	923	2.68%	25	2.56%	24	(1)
331.00	Castaic Power Plant Unit 7 : CPP-U07	923	2.68%	25	2.56%	24	(1)
331.00	Control Gorge Power Plant (Unit 1) : CGPP	1,324,976	1.88%	24,893	1.84%	24,321	(571)
331.00	Cottonwood Power Plant (Units 1 & 2) : CWDPP	181,148	2.17%	3,936	2.07%	3,742	(194)
331.00	Foothill Power Plant (Unit 1) : FHPP	628,151	3.05%	19,127	1.89%	11,887	(7,241)
331.00	Franklin Power Plant (Unit 1) : FRPP	32,796	2.28%	746	1.10%	362	(384)
331.00	Haiwee Power Plant (Units 1 & 2) : HAIPP	169,710	2.00%	3,400	1.88%	3,196	(204)
331.00	Lone Pine Yard : Waterways	2,195,584	2.74%	60,241	2.19%	48,108	(12,133)
331.00	Los Angeles Hydro Plants	3,069,805	3.33%	102,326	2.07%	63,674	(38,652)
331.00	Middle Gorge Power Plant (Unit 1) : MGPP	1,597,409	2.88%	45,966	1.54%	24,649	(21,318)
331.00	Owens Valley Hydro Plants	3,368,729	3.31%	111,578	2.08%	69,915	(41,663)
331.00	Pleasant Valley Power Plant (Unit 1) : PVPP	201,311	1.90%	3,827	1.04%	2,098	(1,728)
331.00	San Fernando Power Plant (Units 1 & 2) : SFPP	973,513	3.25%	31,593	2.29%	22,268	(9,325)
331.00	San Francisquito Power Plant 1 (Units 1-5) : PP1	3,185,749	2.73%	87,087	2.10%	67,023	(20,064)
331.00	San Francisquito Power Plant 2 (Units 1-3) : PP2	4,152,760	2.83%	117,658	2.16%	89,795	(27,862)
331.00	Upper Gorge Power Plant (Unit 1) : UGPP	1,745,882	2.83%	49,416	1.50%	26,245	(23,171)
	Subtotal Account 331.00	$102,340,965	2.62%	$2,678,833	1.02%	$1,044,895	($1,633,938)
331.00	Los Angeles (not assigned to a specific location)	$1,850,045	1.35%	$24,978	2.32%	$42,898	$17,920
	Subtotal Account 331.00: Composite Account(s)	$1,850,045	1.35%	$24,978	2.32%	$42,898	$17,920
	Total Account 331.00	$104,191,010	2.60%	$2,703,811	1.04%	$1,087,794	($1,616,017)

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Account	Description	Original Cost	Depreciation Rate	Annual Accrual	Depreciation Rate	Annual Accrual	Change In Accrual
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
332.00	**Reservoirs, Dams and Waterways**						
332.00	Big Pine Lake Reservoir	$19,990	1.94%	$387	0.53%	$107	($280)
332.00	Big Pine Power Plant (Unit 1) : BPPP	55,661	1.57%	872	0.31%	173	(699)
332.00	Bouquet Canyon Reservoir	209,478	2.38%	4,979	0.86%	1,792	(3,187)
332.00	Castaic Power Plant Common Equipment : CPP-COMN	186,777,800	2.65%	4,956,369	0.66%	1,238,749	(3,717,620)
332.00	Castaic Power Plant Unit 1 : CPP-U01	224,473	1.33%	2,993	2.68%	6,017	3,024
332.00	Castaic Power Plant Unit 3 : CPP-U03	262,023	1.67%	4,367	2.13%	5,569	1,202
332.00	Castaic Power Plant Unit 4 : CPP-U04	(72,263)	1.67%	(1,204)	2.82%	(2,036)	(832)
332.00	Control Gorge Power Plant (Unit 1) : CGPP	1,650,038	1.94%	32,092	0.51%	8,425	(23,668)
332.00	Cottonwood Power Plant (Units 1 & 2) : CWDPP	522,082	1.38%	7,202	2.15%	11,227	4,026
332.00	Division Creek Power Plant (Unit 1): DCPP	1,146,183	2.01%	22,992	2.37%	27,209	4,217
332.00	Drinkwater Reservoir	121,976	2.40%	2,927	0.92%	1,118	(1,809)
332.00	Fairmont Reservoir #1	50,897	1.91%	970	0.51%	261	(708)
332.00	Fairmont Reservoir #2	7,848,025	2.37%	185,763	0.46%	36,435	(149,328)
332.00	Foothill Power Plant (Unit 1) : FHPP	269,458	2.02%	5,449	0.63%	1,687	(3,762)
332.00	Franklin Power Plant (Unit 1) : FRPP	144,638	2.38%	3,438	0.87%	1,263	(2,175)
332.00	Haiwee Power Plant (Units 1 & 2) : HAIPP	320,732	1.95%	6,257	0.57%	1,815	(4,443)
332.00	Long Valley Reservoir (Lake Crowley)	87,996	1.58%	1,387	0.28%	248	(1,139)
332.00	Middle Gorge Power Plant (Unit 1) : MGPP	914,800	1.88%	17,184	0.53%	4,869	(12,314)
332.00	Owens Valley Hydro Plants	8,630	1.33%	115	2.14%	184	69
332.00	Pleasant Valley Power Plant (Unit 1) : PVPP	27,721	2.80%	777	1.18%	328	(448)
332.00	Pleasant Valley Reservoir	336,610	1.82%	6,126	0.46%	1,537	(4,589)
332.00	Rock Creek Diversion	16,154	1.82%	294	0.52%	85	(209)
332.00	San Fernando Power Plant (Units 1 & 2) : SFPP	122,710	1.67%	2,044	0.37%	453	(1,592)
332.00	San Francisquito Power Plant 1 (Units 1-5) : PP1	702,045	2.00%	14,029	0.93%	6,545	(7,484)
332.00	San Francisquito Power Plant 2 (Units 1-3) : PP2	938,097	1.38%	12,972	1.40%	13,148	176
332.00	Upper Dry Canyon Reservoir	103,124	2.47%	2,550	0.92%	951	(1,599)
332.00	Upper Franklin Canyon Reservoir	135,074	2.51%	3,388	0.95%	1,282	(2,106)
332.00	Upper Gorge Power Plant (Unit 1) : UGPP	2,662,248	1.97%	52,489	1.00%	26,744	(25,745)
	Total Account 332.00	$205,606,399	2.60%	$5,349,208	0.68%	$1,396,185	($3,953,023)
333.00	**Water Wheels, Turbines and Generators**						
333.00	Castaic Power Plant Common Equipment : CPP-COMN	$45,941,060	2.80%	$1,288,187	1.02%	$467,362	($820,825)
333.00	Castaic Power Plant Unit 1 : CPP-U01	39,948,133	2.50%	998,703	2.96%	1,182,080	183,376
333.00	Castaic Power Plant Unit 2 : CPP-U02	11,553,114	2.50%	288,828	2.63%	304,131	15,303
333.00	Castaic Power Plant Unit 3 : CPP-U03	1,055,097	2.50%	26,377	2.51%	26,536	158
333.00	Castaic Power Plant Unit 4 : CPP-U04	1,230,825	2.50%	30,771	2.51%	30,955	185
333.00	Castaic Power Plant Unit 5 : CPP-U05	2,276,982	2.50%	56,925	2.51%	57,266	341
333.00	Castaic Power Plant Unit 6 : CPP-U06	10,471,588	2.50%	261,790	2.81%	294,006	32,216
333.00	Castaic Power Plant Unit 7 : CPP-U07	1,470,682	2.50%	36,767	2.65%	38,944	2,177
333.00	Control Gorge Power Plant (Unit 1) : CGPP	24,085,345	2.71%	651,984	2.75%	663,083	11,099
333.00	Cottonwood Power Plant (Units 1 & 2) : CWDPP	1,961,444	2.50%	49,036	2.37%	46,514	(2,522)
333.00	Haiwee Power Plant (Units 1 & 2) : HAIPP	544,033	2.50%	13,601	2.43%	13,205	(396)
333.00	Middle Gorge Power Plant (Unit 1) : MGPP	23,895,282	2.84%	679,117	2.79%	667,437	(11,680)
333.00	San Francisquito Power Plant 1 (Units 1-5) : PP1	422,554	2.50%	10,566	2.53%	10,692	126
333.00	Upper Gorge Power Plant (Unit 1) : UGPP	9,881,452	2.82%	278,721	2.76%	272,404	(6,317)
	Subtotal Account 333.00	$174,737,591	2.67%	$4,671,373	2.33%	$4,074,614	($596,759)
333.00	Los Angeles (not assigned to a specific location)	$3,299	2.50%	$82	2.43%	$80	($2)
	Subtotal Account 333.00: Composite Account(s)	$3,299	2.50%	$82	2.43%	$80	($2)
	Total Account 333.00	$174,740,890	2.67%	$4,671,455	2.33%	$4,074,694	($596,761)

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			Existing		Proposed		
Account	Description	Original Cost	Depreciation Rate	Annual Accrual	Depreciation Rate	Annual Accrual	Change In Accrual
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
334.00	**Accessory Electric Equipment**						
334.00	Big Pine Power Plant (Unit 1) : BPPP	$922,449	2.42%	$22,360	2.40%	$22,104	($256)
334.00	Castaic Power Plant Common Equipment : CPP-COMN	40,703,567	3.39%	1,381,072	1.49%	608,212	(772,860)
334.00	Castaic Power Plant Unit 1 : CPP-U01	9,310,757	2.70%	251,642	2.81%	261,749	10,107
334.00	Castaic Power Plant Unit 2 : CPP-U02	16,302,514	2.70%	440,608	2.51%	409,380	(31,229)
334.00	Castaic Power Plant Unit 3 : CPP-U03	10,201,901	2.70%	275,727	2.45%	249,566	(26,161)
334.00	Castaic Power Plant Unit 4 : CPP-U04	23,924,036	2.70%	646,595	2.39%	572,772	(73,823)
334.00	Castaic Power Plant Unit 5 : CPP-U05	15,379,780	2.70%	415,670	2.51%	386,186	(29,484)
334.00	Castaic Power Plant Unit 6 : CPP-U06	11,735,617	2.70%	317,179	2.08%	243,624	(73,555)
334.00	Castaic Power Plant Unit 7 : CPP-U07	1,354,833	2.70%	36,617	2.63%	35,575	(1,042)
334.00	Control Gorge Power Plant (Unit 1) : CGPP	6,238,371	3.09%	192,579	2.00%	124,614	(67,964)
334.00	Cottonwood Power Plant (Units 1 & 2) : CWDPP	3,807,794	3.53%	134,263	2.26%	86,153	(48,110)
334.00	Division Creek Power Plant (Unit 1): DCPP	21,171	2.95%	624	0.17%	36	(588)
334.00	Foothill Power Plant (Unit 1) : FHPP	184,742	2.80%	5,180	0.38%	700	(4,481)
334.00	Franklin Power Plant (Unit 1) : FRPP	80,002	2.96%	2,370	0.95%	761	(1,609)
334.00	Haiwee Power Plant (Units 1 & 2) : HAIPP	1,242,189	3.56%	44,247	1.63%	20,220	(24,026)
334.00	Middle Gorge Power Plant (Unit 1) : MGPP	1,202,113	3.04%	36,508	1.98%	23,836	(12,673)
334.00	Owens Valley Hydro Plants	947,599	3.91%	37,051	2.10%	19,866	(17,185)
334.00	Pleasant Valley Power Plant (Unit 1) : PVPP	1,747,866	2.93%	51,178	2.31%	40,291	(10,887)
334.00	San Francisquito Power Plant 1 (Units 1-5) : PP1	3,108,015	3.14%	97,436	0.44%	13,583	(83,853)
334.00	San Francisquito Power Plant 2 (Units 1-3) : PP2	2,783,221	3.30%	91,930	0.61%	17,026	(74,904)
334.00	Sawtelle Hydro Power Plant (Unit 1) : STPP	25,412	2.86%	726	2.54%	647	(80)
334.00	Upper Gorge Power Plant (Unit 1) : UGPP	1,805,935	3.02%	54,521	2.15%	38,863	(15,659)
	Total Account 334.00	$153,029,885	2.96%	$4,536,083	2.08%	$3,175,763	($1,360,320)
335.00	**Miscellaneous Power Plant Equipment**						
335.00	Big Pine Power Plant (Unit 1) : BPPP	$1,209,335	3.45%	$41,734	2.05%	$24,736	($16,999)
335.00	Castaic Power Plant Common Equipment : CPP-COMN	7,546,532	3.77%	284,428	0.68%	51,176	(233,252)
335.00	Castaic Power Plant Unit 1 : CPP-U01	83,174	3.33%	2,772	2.75%	2,289	(483)
335.00	Castaic Power Plant Unit 2 : CPP-U02	36,242	3.33%	1,208	2.75%	997	(211)
335.00	Control Gorge Power Plant (Unit 1) : CGPP	77,492	3.36%	2,600	0.68%	525	(2,075)
335.00	Cottonwood Power Plant (Units 1 & 2) : CWDPP	1,178,765	3.57%	42,058	2.08%	24,524	(17,534)
335.00	Foothill Power Plant (Unit 1) : FHPP	6,724	3.59%	241	0.61%	41	(200)
335.00	Lone Pine Yard : Waterways	57,306	3.46%	1,980	0.63%	360	(1,620)
335.00	Los Angeles Hydro Plants	840,919	11.11%	93,426	0.00%	16	(93,410)
335.00	Middle Gorge Power Plant (Unit 1) : MGPP	32,595	3.40%	1,109	0.38%	123	(986)
335.00	Other Entries-Small Hydro	336,825	4.00%	13,473	2.48%	8,365	(5,108)
335.00	Owens Valley Hydro Plants	94,988	4.07%	3,866	1.53%	1,451	(2,416)
335.00	Pleasant Valley Power Plant (Unit 1) : PVPP	33,839	3.41%	1,155	0.36%	123	(1,032)
335.00	San Francisquito Power Plant 1 (Units 1-5) : PP1	540,322	3.75%	20,257	0.90%	4,886	(15,371)
335.00	San Francisquito Power Plant 2 (Units 1-3) : PP2	813,437	3.73%	30,341	1.16%	9,422	(20,920)
335.00	Upper Gorge Power Plant (Unit 1) : UGPP	23,971	3.37%	808	0.01%	3	(805)
	Total Account 335.00	$12,912,468	4.19%	$541,457	1.00%	$129,037	($412,421)
336.00	**Roads, Railroads and Bridges**						
336.00	Castaic Power Plant Common Equipment : CPP-COMN	$2,442,673	2.23%	$54,496	1.36%	$33,282	($21,214)
336.00	Control Gorge Power Plant (Unit 1) : CGPP	1,890,270	2.86%	54,008	2.10%	39,756	(14,251)
336.00	Owens Valley Hydro Plants	10,533	2.22%	234	2.09%	220	(14)
336.00	San Francisquito Power Plant 1 (Units 1-5) : PP1	95,339	2.86%	2,724	2.37%	2,264	(460)
336.00	San Francisquito Power Plant 2 (Units 1-3) : PP2	95,338	2.86%	2,724	2.37%	2,264	(460)
	Subtotal Account 336.00	$4,534,153	2.52%	$114,186	1.72%	$77,786	($36,399)

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(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
336.00	Los Angeles (not assigned to a specific location)	$11,207	2.22%	$249	1.90%	$213	($36)
	Subtotal Account 336.00: Composite Account(s)	$11,207	2.22%	$249	1.90%	$213	($36)
	Total Account 336.00	$4,545,360	2.52%	$114,435	1.72%	$78,000	($36,435)
337.00	**Asset Retirement Costs**						
337.00	Bouquet Canyon Reservoir	$106,426	1.33%	$1,419	0.86%	$916	($503)
	Total Account 337.00	$106,426	1.33%	$1,419	0.86%	$916	($503)
	TOTAL HYDRAULIC PRODUCTION PLANT	$655,132,438	2.73%	$17,917,869	1.52%	$9,942,388	($7,975,481)
	OTHER PRODUCTION PLANT						
341.00	**Structures and Improvements**						
341.00	Beacon - Solar Projects	$120,876	4.00%	$4,835	4.93%	$5,964	$1,129
341.00	Geothermal - Imperial Valley	2,800	4.00%	112	5.00%	140	28
341.00	Harbor Generating Common Unit 1 & 2	31,876,967	4.29%	1,367,212	0.36%	114,184	(1,253,028)
341.00	Harbor Generating Unit 2 (Combined Cycle) : HGS-U02	603,094	2.00%	12,062	8.00%	48,257	36,195
341.00	Harbor Generating Unit 10 (Combustion Turbine) Gt Lm600	19,207	2.00%	384	4.94%	948	564
341.00	Harbor Generating Unit 11 (Combustion Turbine) Gt Lm600	19,207	2.00%	384	4.94%	948	564
341.00	Harbor Generating Unit 12 (Combustion Turbine) Gt Lm600	19,207	2.00%	384	4.94%	948	564
341.00	Harbor Generating Unit 13 (Combustion Turbine) Gt Lm600	19,207	2.00%	384	4.94%	948	564
341.00	Harbor Generating Unit 14 (Combustion Turbine) Gt Lm600	19,207	2.00%	384	4.94%	948	564
341.00	Haynes Generating Unit 08 (Steam Turbine) : HNGS-U08	1,362,546	2.00%	27,251	4.90%	66,793	39,542
341.00	Haynes Generating Unit 09 (Gas Turbine) : HNGS-U09	1,278,217	2.00%	25,564	4.90%	62,633	37,068
341.00	Haynes Generating Unit 10 (Gas Turbine) : HNGS-U10	1,282,055	2.00%	25,641	4.90%	62,821	37,180
341.00	Pine Tree Windfarm Project	91,062,123	4.00%	3,642,485	4.10%	3,729,372	86,887
	Subtotal Account 341.00	$127,684,712	4.00%	$5,107,083	3.21%	$4,094,903	($1,012,180)
341.00	Los Angeles (not assigned to a specific location)	$3,756,174	5.00%	$187,809	3.95%	$148,239	($39,569)
341.00	Other Entries - Other Production	29,665	4.00%	1,187	2.45%	728	(459)
	Subtotal Account 341.00: Composite Account(s)	$3,785,839	4.99%	$188,995	3.93%	$148,967	($40,028)
	Total Account 341.00	$131,470,551	4.03%	$5,296,078	3.23%	$4,243,870	($1,052,209)
342.00	**Fuel Holders, Producers and Accessories**						
342.00	Harbor Generating Commn(Combustion)	$19,445	4.00%	$778	4.50%	$874	$97
	Total Account 342.00	$19,445	4.00%	$778	4.50%	$874	$97
343.00	**Prime Movers**						
343.00	Pine Tree Windfarm Project	$162,558,731	4.00%	$6,502,349	4.08%	$6,631,044	$128,695
	Total Account 343.00	$162,558,731	4.00%	$6,502,349	4.08%	$6,631,044	$128,695

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(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
344.00	**Generators**						
344.00	Adelanto Solar Power Project	$51,343,341	4.00%	$2,053,734	5.19%	$2,662,487	$608,754
344.00	Harbor Generating Common Unit 1 & 2	133,129,484	1.36%	1,804,210	0.11%	150,351	(1,653,859)
344.00	Harbor Generating Common Unit 10, 11, 12, 13 & 14 : HGS	122,909	4.00%	4,916	4.18%	5,140	223
344.00	Harbor Generating Unit 1 (Combined Cycle) : HGS-U01	312,059	7.09%	22,125	2.32%	7,242	(14,883)
344.00	Harbor Generating Unit 2 (Combined Cycle) : HGS-U02	1,685,349	7.15%	120,452	1.63%	27,515	(92,937)
344.00	Harbor Generating Unit 10 (Combustion Turbine) Gt Lm600	40,625,276	3.68%	1,495,416	2.98%	1,210,729	(284,688)
344.00	Harbor Generating Unit 11 (Combustion Turbine) Gt Lm600	40,227,184	3.68%	1,480,763	2.98%	1,199,161	(281,602)
344.00	Harbor Generating Unit 12 (Combustion Turbine) Gt Lm600	40,227,184	3.68%	1,480,763	2.98%	1,199,161	(281,602)
344.00	Harbor Generating Unit 13 (Combustion Turbine) Gt Lm600	40,227,184	3.68%	1,480,763	2.98%	1,199,161	(281,602)
344.00	Harbor Generating Unit 14 (Combustion Turbine) Gt Lm600	40,228,916	3.68%	1,480,826	2.98%	1,199,211	(281,615)
344.00	Haynes Generating Unit 08 (Steam Turbine) : HNGS-U08	21,981,070	4.00%	879,243	4.60%	1,011,866	132,623
344.00	Haynes Generating Unit 09 (Gas Turbine) : HNGS-U09	144,766,286	4.00%	5,790,651	3.07%	4,443,357	(1,347,294)
344.00	Haynes Generating Unit 10 (Gas Turbine) : HNGS-U10	145,141,386	4.00%	5,805,655	3.07%	4,453,592	(1,352,063)
344.00	Haynes Generating Unit 11 (Simple Cycle) : HNGS-U11	108,455,179	3.33%	3,615,172	3.33%	3,616,375	1,203
344.00	Haynes Generating Unit 12 (Simple Cycle) : HNGS-U12	116,079,700	3.33%	3,869,323	3.34%	3,881,916	12,593
344.00	Haynes Generating Unit 13 (Simple Cycle) : HNGS-U13	115,120,185	3.33%	3,837,339	3.34%	3,848,548	11,209
344.00	Haynes Generating Unit 14 (Simple Cycle) : HNGS-U14	110,005,830	3.33%	3,666,861	3.34%	3,669,854	2,993
344.00	Haynes Generating Unit 15 (Simple Cycle) : HNGS-U15	109,747,528	3.33%	3,658,251	3.34%	3,660,719	2,469
344.00	Haynes Generating Unit 16 (Simple Cycle) : HNGS-U16	117,777,602	3.33%	3,925,920	3.34%	3,937,468	11,548
344.00	Pine Tree - Solar Project	55,760,241	4.00%	2,230,410	5.08%	2,832,705	602,295
344.00	Pine Tree Windfarm Project	138,747,407	4.00%	5,549,896	4.08%	5,663,060	113,164
344.00	Solar - Other Entries	17,628,655	4.00%	705,146	5.35%	942,514	237,368
344.00	Valley Generating Unit 5 (Combustion Turbine) : VGS-U05	42,736,630	3.68%	1,573,135	3.17%	1,354,739	(218,396)
344.00	Valley Generating Unit 6 (Combined Cycle) : VGS-U06	135,822,418	4.00%	5,432,897	3.39%	4,600,214	(832,682)
344.00	Valley Generating Unit 7 (Combined Cycle) : VGS-U07	135,378,995	4.00%	5,415,160	3.38%	4,580,364	(834,796)
	Total Account 344.00	$1,903,277,998	3.54%	$67,379,026	3.22%	$61,357,449	($6,021,577)
345.00	**Accessory Electric Equipment**						
345.00	Adelanto Solar Power Project	$159,226	4.00%	$6,369	5.58%	$8,887	$2,518
345.00	Harbor Generating Unit 1 (Combined Cycle) : HGS-U01	186,179	3.57%	6,649	8.19%	15,252	8,603
345.00	Harbor Generating Unit 2 (Combined Cycle) : HGS-U02	66,920	3.57%	2,390	8.13%	5,438	3,048
345.00	Harbor Generating Unit 10 (Combustion Turbine) Gt Lm600	219,850	3.57%	7,852	5.74%	12,609	4,757
345.00	Harbor Generating Unit 11 (Combustion Turbine) Gt Lm600	170,882	3.57%	6,103	5.73%	9,791	3,688
345.00	Harbor Generating Unit 12 (Combustion Turbine) Gt Lm600	434,431	3.57%	15,515	5.59%	24,289	8,774
345.00	Harbor Generating Unit 13 (Combustion Turbine) Gt Lm600	444,123	3.57%	15,862	5.60%	24,857	8,995
345.00	Harbor Generating Unit 14 (Combustion Turbine) Gt Lm600	155,074	3.57%	5,538	5.74%	8,894	3,355
345.00	Haynes Generating Unit 09 (Gas Turbine) : HNGS-U09	1,034,158	3.57%	36,934	4.25%	43,955	7,021
345.00	Haynes Generating Unit 10 (Gas Turbine) : HNGS-U10	1,040,825	3.57%	37,172	4.26%	44,388	7,216
345.00	Pine Tree Windfarm Project	59,434,061	4.00%	2,377,362	4.14%	2,462,179	84,816
345.00	Solar - Other Entries	8,157,394	4.00%	326,296	5.77%	470,983	144,687
345.00	Valley Generating Unit 5 (Combustion Turbine) : VGS-U05	159,243	3.57%	5,687	6.07%	9,667	3,980
345.00	Valley Generating Unit 6 (Combined Cycle) : VGS-U06	1,352,027	3.57%	48,281	5.04%	68,092	19,811
345.00	Valley Generating Unit 7 (Combined Cycle) : VGS-U07	1,319,936	3.57%	47,135	5.03%	66,386	19,251
345.00	Valley Generating Unit 8 (Gas Turbine) : VGS-U08	4,824	3.57%	172	1.87%	90	(82)
	Total Account 345.00	$74,339,153	3.96%	$2,945,318	4.41%	$3,275,758	$330,439

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(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
346.00	**Miscellaneous Power Plant Equipment**						
346.00	Harbor Generating Common Unit 1 & 2	$5,434,053	4.39%	$238,555	0.47%	$25,668	($212,887)
346.00	Harbor Generating Unit 1 (Combined Cycle) : HGS-U01	2,054	4.00%	82	8.33%	171	89
346.00	Harbor Generating Unit 2 (Combined Cycle) : HGS-U02	2,054	4.00%	82	8.33%	171	89
346.00	Harbor Generating Unit 10 (Combustion Turbine) Gt Lm600	2,054	3.57%	73	5.88%	121	47
346.00	Harbor Generating Unit 11 (Combustion Turbine) Gt Lm600	2,054	3.57%	73	5.88%	121	47
346.00	Harbor Generating Unit 12 (Combustion Turbine) Gt Lm600	2,054	3.57%	73	5.88%	121	47
346.00	Harbor Generating Unit 13 (Combustion Turbine) Gt Lm600	2,054	3.57%	73	5.88%	121	47
346.00	Harbor Generating Unit 14 (Combustion Turbine) Gt Lm600	2,040	3.57%	73	5.88%	120	47
346.00	Haynes Generating Unit 09 (Gas Turbine) : HNGS-U09	2,025	3.57%	72	5.00%	101	29
346.00	Haynes Generating Unit 10 (Gas Turbine) : HNGS-U10	2,025	3.57%	72	5.00%	101	29
346.00	Solar - Other Entries	751,832	4.00%	30,073	5.88%	44,225	14,152
346.00	Valley Generating Unit 5 (Combustion Turbine) : VGS-U05	35,704	3.57%	1,275	6.25%	2,231	956
346.00	Valley Generating Unit 6 (Combined Cycle) : VGS-U06	103,567	3.57%	3,698	5.56%	5,754	2,055
346.00	Valley Generating Unit 7 (Combined Cycle) : VGS-U07	103,567	3.57%	3,698	5.56%	5,754	2,055
	Total Account 346.00	$6,447,138	4.31%	$277,975	1.32%	$84,781	($193,194)
	TOTAL OTHER PRODUCTION PLANT	$2,278,113,016	3.62%	$82,401,526	3.32%	$75,593,776	($6,807,750)
	TOTAL PRODUCTION PLANT	$4,048,511,860	3.47%	$140,505,747	3.01%	$121,812,377	($18,693,370)
	TRANSMISSION PLANT						
352.00	Structures and Improvements	$62,048,614	2.12%	$1,313,374	1.93%	$1,200,412	($112,963)
353.00	Station Equipment	167,371,986	3.04%	5,094,785	2.03%	3,401,057	(1,693,728)
354.00	Towers and Fixtures	112,043,302	2.84%	3,180,512	1.68%	1,886,231	(1,294,281)
356.00	Overhead Conductors and Devices	121,829,071	2.53%	3,085,947	1.87%	2,273,103	(812,844)
357.00	Underground Conduit	51,797,520	1.85%	955,812	1.32%	684,203	(271,609)
358.00	Underground Conductors and Devices	38,740,720	4.00%	1,549,629	1.67%	646,909	(902,720)
359.00	Roads and Trails	6,252,835	4.56%	285,129	0.99%	61,623	(223,507)
	Total Transmission Plant	$560,084,048	2.76%	$15,465,189	1.81%	$10,153,537	($5,311,652)
	DISTRIBUTION PLANT						
361.00	Structures and Improvements	$275,825,075	1.82%	$5,030,131	2.19%	$6,054,096	$1,023,965
362.00	Station Equipment	955,638,529	3.05%	29,139,433	2.79%	26,649,675	(2,489,758)
364.00	Poles, Towers and Fixtures	1,307,951,418	5.39%	70,498,581	2.08%	27,214,883	(43,283,698)
365.00	Overhead Conductors and Devices	265,197,573	5.34%	14,161,550	1.82%	4,824,064	(9,337,486)
366.00	Underground Conduit	590,059,512	1.66%	9,770,477	2.13%	12,561,417	2,790,940
367.00	Underground Conductors and Devices	612,670,923	2.69%	16,480,848	3.25%	19,927,094	3,446,246
368.00	Line Transformers	454,898,775	2.69%	12,236,777	4.57%	20,805,372	8,568,595
369.00	Services	255,567,447	3.02%	7,730,187	2.71%	6,937,225	(792,962)
370.00	Meters	214,189,786	4.77%	10,216,309	3.70%	7,915,763	(2,300,546)
371.00	Installation On Customer Premises	402,493	3.58%	14,395	1.98%	7,962	(6,433)
373.00	Street Lighting and Signal Systems	37,175,628	5.04%	1,872,289	7.00%	2,601,749	729,461
	Total Distribution Plant	$4,969,577,158	3.56%	$177,150,977	2.73%	$135,499,299	($41,651,677)

Los Angeles Department of Water and Power
Comparison of Depreciation Rates and Annual Accruals
Based on Plant in Service at June 30, 2015
Schedule 3

			Existing		Proposed		
Account	Description	Original Cost	Depreciation Rate	Annual Accrual	Depreciation Rate	Annual Accrual	Change In Accrual
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
	GENERAL PLANT						
390.00	Structures and Improvements	$347,125,025	1.26%	$4,367,254	0.92%	$3,190,147	($1,177,107)
391.00	Office Furniture and Equipment						
391.00	Furniture and Office Equipment	49,509,488	4.82%	2,384,395	5.20%	2,575,467	191,072
391.00	Computer Equipment	23,414,558	20.00%	4,682,912	13.31%	3,115,953	(1,566,959)
391.00	MIS/Servers and Mainframe Equipment	44,523,034	19.82%	8,822,510	4.17%	1,856,296	(6,966,214)
	Subtotal	117,447,080	13.53%	15,889,817	6.43%	7,547,716	(8,342,101)
392.00	Transportation Equipment	17,158,332	5.98%	1,026,297	7.34%	1,259,560	233,263
393.00	Stores Equipment	794,455	1.01%	8,055	4.16%	33,055	25,000
394.00	Tools, Shop and Garage Equipment	6,063,137	1.21%	73,148	4.00%	242,813	169,665
395.00	Laboratory Equipment	17,194,171	1.11%	190,666	3.29%	564,981	374,314
396.00	Power Operated Equipment	24,312,699	1.11%	269,779	4.59%	1,115,161	845,382
397.00	Communication Equipment	348,655,376	1.36%	4,732,637	4.26%	14,848,375	10,115,737
398.00	Miscellaneous Equipment	9,477,826	0.83%	78,990	3.41%	323,613	244,624
	Total General Plant	$888,228,101	3.00%	$26,636,643	3.28%	$29,125,421	$2,488,778
	PACIFIC INTERTIE						
352.00	Structures and Improvements	$17,603,373	2.23%	$392,539	1.15%	$202,379	($190,161)
353.00	Station Equipment	104,341,501	2.22%	2,316,875	2.10%	2,186,492	(130,383)
354.00	Towers and Fixtures	4,313,369	2.11%	90,868	2.44%	105,276	14,408
356.00	Overhead Conductors and Devices	8,414,157	2.11%	177,258	1.97%	166,091	(11,167)
359.00	Roads and Trails	147,642	2.11%	3,110	1.59%	2,342	(769)
	Total Pacific Intertie	$134,820,043	2.21%	$2,980,652	1.97%	$2,662,580	($318,072)
	WESTERN NAVAJO						
352.00	Structures and Improvements	$795,306	2.03%	$16,181	1.53%	$12,138	($4,043)
353.00	Station Equipment	17,082,011	2.03%	347,541	2.39%	407,997	60,456
354.00	Towers and Fixtures	10,003,539	2.03%	203,527	0.85%	85,290	(118,237)
356.00	Overhead Conductors and Devices	7,747,879	2.03%	157,634	0.81%	62,559	(95,075)
359.00	Roads and Trails	1,072,443	2.03%	21,819	1.04%	11,123	(10,696)
397.00	Communication Equipment	10,183,229	2.03%	207,182	2.19%	222,644	15,461
	Total Western Navajo	$46,884,406	2.03%	$953,885	1.71%	$801,752	($152,133)
	HOOVER						
353.00	Station Equipment	$19,371	3.11%	$602	0.89%	$171	($431)
	Total Hoover	$19,371	3.11%	$602	0.89%	$171	($431)
	SINKING FUND BALANCE						
311.00-337.00	Production	$35,317,060	4.63%	$1,634,037	4.23%	$1,492,829	($141,208)
352.00-359.00	Transmission	209,112,101	3.60%	7,520,263	3.43%	7,168,746	(351,518)
361.00-373.00	Distribution	1,765,324,398	4.66%	82,230,754	4.18%	73,790,094	(8,440,660)
	Subtotal	$2,009,753,559	4.55%	$91,385,054	4.10%	$82,451,669	($8,933,386)

Los Angeles Department of Water and Power
Comparison of Depreciation Rates and Annual Accruals
Based on Plant in Service at June 30, 2015
Schedule 3

			Existing		Proposed		
Account	Description	Original Cost	Depreciation Rate	Annual Accrual	Depreciation Rate	Annual Accrual	Change In Accrual
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
	SINKING FUND BALANCE - PACIFIC INTERTIE						
352.00	Structures and Improvements	$1,173,516	3.63%	$42,606	3.32%	$38,902	($3,703)
353.00	Station Equipment	7,971,329	3.39%	270,553	3.30%	263,123	(7,429)
354.00	Towers and Fixtures	16,669,851	3.84%	640,771	3.85%	641,734	963
356.00	Overhead Conductors and Devices	12,038,138	3.88%	466,734	3.94%	473,734	7,000
359.00	Roads and Trails	1,100,948	4.17%	45,905	4.18%	46,031	127
	Total Pacific Intertie	$38,953,782	3.76%	$1,466,568	3.76%	$1,463,525	($3,043)
	SINKING FUND BALANCE - WESTERN NAVAJO						
352.00	Structures and Improvements	$2,792,243	4.98%	$138,957	4.80%	$134,157	($4,800)
353.00	Station Equipment	24,674,011	5.02%	1,239,656	5.06%	1,248,202	8,546
	Total Western Navajo	$27,466,254	5.02%	$1,378,613	5.03%	$1,382,358	$3,745
	SINKING FUND BALANCE - HOOVER						
353.00	Station Equipment	$843,445	4.43%	$37,326	4.20%	$35,409	($1,918)
	Total Hoover Power Plant	$843,445	4.43%	$37,326	4.20%	$35,409	($1,918)
	TOTAL SINKING FUND BALANCE	$2,077,017,040	4.54%	$94,267,562	4.11%	$85,332,961	($8,934,601)
	TOTAL DEPRECIABLE PLANT	**$12,725,142,027**	3.60%	**$457,961,256**	3.03%	**$385,388,097**	**($72,573,159)**

SCHEDULE 4
Comparison of Existing and Proposed Depreciation Parameters

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Los Angeles Department of Water and Power
Calculation of Annual Depreciation Accrual Rates
Depreciation Parameters
Schedule 4A - Production Plant Accounts

		Existing		Recommended	
	Description	Interim Retirement Rate	Net Salvage	Interim Retirement Rate	Net Salvage
	STEAM PRODUCTION PLANT				
311.00	Structures and Improvements	0.0025	0%	0.0003	0%
312.00	Boiler Plant Equipment	0.0070	0%	0.0026	0%
314.00	Turbogenerator Units	0.0035	0%	0.0011	0%
315.00	Accessory Electric Eqiupment	0.0035	0%	0.0011	0%
316.00	Misc Power Plant Equipment	0.0100	0%	0.0025	0%
	NUCLEAR PRODUCTION PLANT				
321.00	Structures and Improvements	0.1000	0%	0.0031	-12%
322.00	Reactor Plant Equipment	0.3000	0%	0.0041	-12%
323.00	Turbogenerator Units	0.1500	0%	0.0057	-12%
324.00	Accessory Electric Eqiupment	0.0700	0%	0.0014	-12%
325.00	Misc Power Plant Equipment	1.5000	0%	0.0093	-12%
	HYDRAULIC PRODUCTION PLANT				
331.00	Structures and Improvements	0.0600	0%	0.0005	0%
332.00	Reservoirs, Dams and Waterways	0.0200	0%	0.0001	0%
333.00	Water Wheels, Turbines and Generators	0.4000	0%	0.0064	0%
334.00	Accessory Electric Equipment	0.4000	0%	0.0040	0%
335.00	Misc Power Plant Equipment	0.3000	0%	0.0020	0%
336.00	Roads, Railroads and Bridges	0.0100	0%	0.0000	0%
337.00	Asset Retirement Costs - Hydro				
	OTHER PRODUCTION PLANT				
341.00	Structures and Improvements	0.3500	0%	0.0000	0%
342.00	Fuel Holders	0.3500	0%	0.0007	0%
343.00	Primer Movers	0.3500	0%	0.0000	0%
344.00	Generators	0.3500	0%	0.0000	0%
345.00	Accessory Electric Equipment	0.3500	0%	0.0008	0%
346.00	Misc Power Plant Equipment	0.3500	0%	0.0000	0%

Los Angeles Department of Water and Power
Calculation of Annual Depreciation Accrual Rates
Depreciation Parameters
Schedule 4B - Mass Property Accounts

		Existing			Recommended		
	Description	Average Service Life	Survivor Curve	Net Salvage	Average Service Life	Survivor Curve	Net Salvage
	TRANSMISSION PLANT						
352.00	Structures and Improvements	60	S6	-15%	60	S3	-6%
353.00	Station Equipment	52	S3	-15%	50	R1.5	-6%
354.00	Towers and Fixtures	60	R5	-15%	65	R5	-6%
356.00	Overhead Conductors and Devices	65	S3	-15%	60	S3	-6%
357.00	Underground Conduit	70	R5	-15%	70	R5	-6%
358.00	Underground Conductors and Devices	25	R3	-15%	55	R3	-6%
359.00	Roads and Trails	50	R5	-15%	60	R5	-6%
	Pacific Intertie Project						
352.00	Structures and Improvements	60	S3	-5%	60	S3	-6%
353.00	Station Equipment	52	S3	-5%	50	R1.5	-6%
354.00	Towers and Fixtures	60	S3	-5%	65	R5	-6%
356.00	Overhead Conductors and Devices	60	S3	-5%	60	S3	-6%
359.00	Roads and Trails	50	R5	-15%	60	R5	-6%
	Western Navajo Project						
352.00	Structures and Improvements	55	S3	-2.5%	60	S3	-6%
353.00	Station Equipment	55	S3	-2.5%	50	R1.5	-6%
354.00	Towers and Fixtures	55	S3	-2.5%	65	R5	-6%
356.00	Overhead Conductors and Devices	55	S3	-2.5%	60	S3	-6%
359.00	Roads and Trails	50	R5	-15%	60	R5	-6%
397.00	Communications Equipment	30	S4	5%	25	SQ	0%
	Hoover						
353.00	Station Equipment	52	S3	-15%	50	R1.5	-6%
	DISTRIBUTION PLANT						
361.00	Structures and Improvements	60	R2	-10%	60	R2	-29%
362.00	Station Equipment	40	R1	-10%	50	R1.5	-29%
364.00	Poles, Towers and Fixtures	20	L1	-10%	50	R0.5	-29%
365.00	Overhead Conductors and Devices	20	R0.5	-10%	50	R0.5	-29%
366.00	Underground Conduit	65	S1	-10%	65	S1	-29%
367.00	Underground Conductors and Devices	40	S0	-10%	40	S0	-29%
368.00	Line Transformers	40	L1	-10%	32	R2	-29%
369.00	Services	35	S5	-10%	45	R3	-29%
370.00	Meters	20	R0.5	-10%	25	S1	0%
370.01	Smart Meters	15	SQ	0%	15	R1.5	0%
371.00	Installations on Customer Properties	30	L3	-10%	30	SQ	0%
373.00	Street Lighting and Signal Systems	30	L3	-10%	20	L3	-29%
	GENERAL PLANT						
390.00	Structures and Improvements	60	S4	2.5%	60	S4	6%
391.00	Office Furniture and Equipment						
391.00	Furniture and Office Equipment	25	R1	5%	25	SQ	6%
391.00	Computer Equipment	5	SQ	0%	5	SQ	0%
391.00	MIS/Servers and Mainframe Equipment	15	S-.5	0%	15	SQ	0%
392.00	Transportation Equipment	15	L5	5%	15	L5	6%
393.00	Stores Equipment	35	SQ	0%	25	SQ	0%
394.00	Tools, Shop and Garage Equipment	15	SQ	0%	15	SQ	0%
395.00	Laboratory Equipment	35	S4	5%	25	SQ	0%
396.00	Power Operated Equipment	30	R1	5%	15	R1	6%
397.00	Communications Equipment	30	S4	5%	25	SQ	0%
398.00	Miscellaneous Equipment	35	S1.5	5%	25	SQ	6%

Appendix A
LADWP STAFF PARTICIPATING IN STUDY

Name	Job Title
Ann Santilli	Assistant Chief Financial Officer & Controller
Nancy Swan	Principal Utility Accountant
Victor Fernandez, Jr.	Supervisor Fixed Asset Accounting
Anthony Law	Senior Utility Accountant
Kristenne Alvero	Utility Accountant
Kathy Fong	Principal Utility Accountant
Marianne Anz	Principal Utility Accountant
Teresa Hontiveros	Senior Utility Accountant
Kelvin Li	Utility Accountant
Syndi Driscoll	Deputy City Attorney
Felix LeBron	Deputy City Attorney
Neil Guglielmo	Assistant General Manager Water and Power
Sueyen McMahon	Electrical Engineer, Internal OASIS
Christopher Lynn	Assistant Director of Power Supply Operations and Manager of Hydro and Renewables
Brian Koch	Manager of Power Engineering, Power Planning and Development
Don Sievertson	Manager of Energy Control Center and Extra High Voltage Stations
Tyrone Jeffery	Manager of Steam Generation
Wesley Pyle	Electrical Service Manager, Scattergood Generating Station
Ryan Gray	Steam Plant Operating Supervisor, Scattergood Generating Station
Jose Gutierrez	Electrical Service Manager, Valley Generating Station
Dave Kolacinski	Steam Plant Operating Supervisor, Valley Generating Station
Sid Walkman	Mechanical Engineering Associate, Haynes Generating Station
Alex Gray	Steam Plant Operating Supervisor, Harbor Generating Station
Melanie D'Artois	Electric Station Operator, Castaic Power Plant
Kenneth Dinsmoor	Assistant Superintendent, Aqueduct Power Plants
Bruce Zigtema	Electrical Mechanic Supervisor, Pine Tree Wind and Solar Power Plant
Brad Packer	Manager of Power Engineering, Power Supply Operations
Eric Hill	Mechanical Engineering Associate, Power Supply Operations
Kevin Peng	Mechanical Engineer, Power Supply Operations
Sam Mannan	Electrical Engineer, Power Supply Operations
Robert Gonzalez	Electrical Service Manager, Power Transmission and Distribution
Dan Barnes	Electrical Service Manager, Power Construction & Maintenance
Marvin Moon	Power Engineering Manager
Jay Puklavetz	Electrical Service Manager, Power Engineering Division

Appendix A

Name	Job Title
Ruben Eyong	Electrical Engineer, Power Engineering Division
Ruben Hauser	Transmission & Distribution, District Supervisor
Jonathan Fonti	Electrical Service Manager 1, Power Construction and Maintenance
Richard Fujimura	Fleet Services Manager, Fleet Operations
Robert Lum	Senior Architect, Power Transmission & Distribution
Frank Hsu	Architect, Power Engineering Division
Mark Townsend	Executive Assistant to the GM, Power Transmission and Distribution
Matt Lampe	Assistant General Manager Water & Power
Gene Gamachi	Assistant Director, Information Systems
Massoud Saboury	Power Engineering Manager
Denis Obiang	Electrical Engineering Associate, System Planning
Matt Hone	Electrical Engineer, System Planning
Haik Movsesian	Electrical Engineering Associate, System Planning
Sager Farraj	Power Engineering Manager, System Planning

Appendix B
LADWP GENERATION PLANT – ESTIMATED RETIREMENT YEARS

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Los Angeles Department of Water and Power
2015 Power Depreciation Study

Estimated Retirement Year
Thermal Generation

Name of Plant	Unit No.		Unit Type	Model	Commercial Operation Date	Nameplate Capacity (MW)	Age (years) at FYE 2015	Estimated Life Span (Years)	Estimated Retirement Year
BASIN THERMAL									
Harbor Generating Station	1	HGS-01	Natural Gas (CC-CT)	Frame 7EA	1995	85	20	32	2027
	2	HGS-02	Natural Gas (CC-CT)	Frame 7EA	1995	85	20	32	2027
	5	HGS-U05	Waste Heat (CC-ST)	Westinghouse	1995	75	20	32	2027
	10	HGS-U10	Natural Gas (CT)	LM6000	2002	61	13	30	2032
	11	HGS-U11	Natural Gas (CT)	LM6000	2002	61	13	30	2032
	12	HGS-U12	Natural Gas (CT)	LM6000	2002	61	13	30	2032
	13	HGS-U13	Natural Gas (CT)	LM6000	2002	61	13	30	2032
	14	HGS-U14	Natural Gas (CT)	LM6000	2002	61	13	30	2032
Valley Generating Station	5	VGS-U05	Natural Gas (CT)	LM6000	2001	61	14	30	2031
	6	VGS-U06	Natural Gas (CC-CT)	Frame 7FA	2003	183	12	30	2033
	7	VGS-U07	Natural Gas (CC-CT)	Frame 7FA	2003	183	12	30	2033
	8	VGS-U08	Waste Heat (CC-ST)	D11	2003	264	12	30	2033
Scattergood Generating Station	1	SGS-U01	Natural Gas [ST]	Conventional F2	1958	163	57	63	2021
	2	SGS-U02	Natural Gas [ST]	Conventional F2	1959	163	56	62	2021
	3	SGS-U03	Natural Gas [ST]	Supercritical	1974	497	41	41	2015
	4	4SGS-U03	Natural Gas (CC-CT)	Frame 7FA	2015	255	0.5	30	2045
	5	SGS-U05	Waste Heat (CC-ST)	A14	2015	140	0.5	30	2045
	6	SGS-U06	Natural Gas (CT)	LMS100*	2015	108	0.5	30	2045
	7	SGS-U07	Natural Gas (CT)	LMS100*	2015	108	0.5	30	2045
Haynes Generating Station	1	HNGS-U01	Natural Gas (ST)	Conventional F2	1961	230	54	63	2024
	2	HNGS-U02	Natural Gas (ST)	Conventional F2	1962	230	53	62	2024
	7	HNGS-U07	Diesel (IC)	--	1970	2	45	55	2024
	8	HNGS-U08	Waste Heat (CC-ST)	D11	2005	264	10	30	2030
	9	HNGS-U09	Natural Gas (CC-CT)	Frame 7FA	2005	183	10	30	2030
	10	HNGS-U10	Natural Gas (CC-CT)	Frame 7FA	2005	183	10	30	2030
	11	HNGS-U11	Natural Gas (CT)	LMS100	2013	108	2	30	2043
	12	HNGS-U12	Natural Gas (CT)	LMS100*	2013	108	2	30	2043
	13	HNGS-U13	Natural Gas (CT)	LMS100	2013	108	2	30	2043
	14	HNGS-U14	Natural Gas (CT)	LMS100*	2013	108	2	30	2043
	15	HNGS-U15	Natural Gas (CT)	LMS100	2013	108	2	30	2043
	16	HNGS-U16	Natural Gas (CT)	LMS100	2013	108	2	30	2043
EXTERNAL THERMAL									
Navajo Generating Station (LADWP owned 21.2% share)**	1	NGS-U01	Coal		1974	803	41	42	2016
	2	NGS-U02	Coal		1974	803	41	42	2016
	3	NGS-U03	Coal		1975	803	40	41	2016
Palo Verde Nuclear Generating Station (LADWP owns 5.7% share)	1	PVNGS-U01	Nuclear		1986	1,422	29	59	2045
	2	PVNGS-U02	Nuclear		1986	1,413	29	60	2046
	3	PVNGS-U03	Nuclear		1988	1,413	27	59	2047

* With condenser capability.

Los Angeles Department of Water and Power
2015 Power Depreciation Study

Estimated Retirement Year
Hydro and Renewable Generation

Name of Plant	Unit No.	Unit Type	Commercial Operation Date	Nameplate Capacity (MW)	Age (years) at FYE 2015	License Expiration Date	Estimated Life Span (Years)	Estimated Retirement Year
HYDRO								
San Francisquito Power Plant 1	1A	Hydro	1983	25.0	32	*	100	2056
	3	Hydro	1917	9.4	98	*	139	2056
	4	Hydro	1923	10.0	92	*	133	2056
	5A	Hydro	1987	25.0	28	*	100	2056
San Francisquito Power Plant 2	1	Hydro	1919	14.0	96	*	137	2056
	2	Hydro	1919	14.0	96	*	137	2056
	3	Hydro	1932	14.0	83	*	124	2056
San Fernando Power Plant	1	Hydro	1922	2.8	93	*	134	2056
	2	Hydro	1922	2.8	93	*	134	2056
Foothill Power Plant	1	Hydro	1971	11.0	44	*	100	2056
Franklin Power Plant	1	Hydro	1921	2.0	94	*	135	2056
Sawtelle Power Plant	1	Hydro	1986	0.6	29	*	100	2056
Haiwee Power Plant	1	Hydro	1927	2.8	88	*	129	2056
	2	Hydro	1927	2.8	88	*	129	2056
Cottonwood Power Plant	1	Hydro	1908	0.8	107	*	148	2056
	2	Hydro	1909	0.8	106	*	147	2056
Division Creek P. P.	1	Hydro	1909	0.6	106	*	147	2056
Big Pine Power Plant	1	Hydro	1925	3.2	90	*	131	2056
Pleasant Valley P. P.	1	Hydro	1958	3.2	57	*	100	2056
Upper Gorge P. P.	1	Hydro	1953	37.5	62	*	103	2056
Middle Gorge P. P.	1	Hydro	1952	37.5	63	*	104	2056
Control Gorge P. P.	1	Hydro	1952	37.5	63	*	104	2056
PUMP STORAGE								
Castaic Power Plant **	1	Pump Storage	1973	265	42	2022	79	2052
	2	Pump Storage	1974	265	41	2022	78	2052
	3	Pump Storage	1976	265	39	2022	76	2052
	4	Pump Storage	1977	265	38	2022	75	2052
	5	Pump Storage	1977	265	38	2022	75	2052
	6	Pump Storage	1978	265	37	2022	74	2052
	7	Pump Storage	1972	56	43	2022	80	2052
	Common	Pump Storage	1972	56	43	2022	80	2052
WIND								
Pine Tree Wind Power Plant	1- 90	Wind	2009	135	6		25	2034
SOLAR								
Adelanto Solar Power Plant		Solar	2012	10	3		20	2032
Pine Tree Solar Power Plant		Solar	2013	9	2		20	2033

* Small hydro units are grandfathered; i.e., no FERC license. For depreciation study, assumed 40-year remaining life span for all small hydro units.

** LADWP plans to request 50-year FERC license renewal for Castaic, but uncertain what period will be approved. For depreciation study, assumed FERC awards 30-year license renewal extending life to 2052.

Appendix C
INTERIM RETIREMENT RATE ANALYSIS

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Los Angeles Department of Water and Power
Depreciation Study
Plant in Service as of June 30, 2015

Interim Retirement Rate Analysis

Plant Classification: Steam Production Plant
Account Number: 311.00
Plant Account: Structures and Improvements
End of Year Study Balance: $275,502,367
Recommended IRR:

PLANT ACCOUNT INPUT:

Fiscal Year ending June 30

Account	Year	BOY Balance	Addition	Total Retirement	Terminal Retirement	Interim Retirement	EOY Balance	Average Balance	Retirement Ratio Annual	Retirement Ratio Cumulative	Retirement Ratio 5-Yr Avg.
311.00	2015	270,603,532	4,898,835	0		0	275,502,367	273,052,949	0.0000	0.0000	0.0000
311.00	2014	267,759,341	2,844,190	0		0	270,603,532	269,181,437	0.0000	0.0000	0.0000
311.00	2013	252,857,794	14,901,547	0		0	267,759,341	260,308,568	0.0000	0.0000	0.0000
311.00	2012	231,068,186	21,789,608	0		0	252,857,794	241,962,990	0.0000	0.0000	0.0000
311.00	2011	222,015,291	9,052,895	0		0	231,068,186	226,541,739	0.0000	0.0000	0.0000
311.00	2010	209,820,474	12,194,817	0		0	222,015,291	215,917,883	0.0000	0.0000	0.0000
311.00	2009	210,370,486	(550,012)	0		0	209,820,474	210,095,480	0.0000	0.0000	0.0000
311.00	2008	209,380,379	990,107	0		0	210,370,486	209,875,432	0.0000	0.0000	0.0000
311.00	2007	207,477,369	1,903,010	0		0	209,380,379	208,428,874	0.0000	0.0000	0.0000
311.00	2006	207,846,210	1,037,948	(1,406,789)		(1,406,789)	207,477,369	207,661,790	0.0068	0.0006	0.0068
311.00	2005	207,467,446	378,764	0		0	207,846,210	207,656,828	0.0000	0.0006	0.0000
311.00	2004	204,502,246	2,965,275	(75)		(75)	207,467,446	205,984,846	0.0000	0.0005	0.0000
311.00	2003	203,780,936	721,310	0		0	204,502,246	204,141,591	0.0000	0.0005	0.0000
311.00	2002	215,858,039	52,198	(12,129,301)	(12,082,685)	(46,616)	203,780,936	209,819,487	0.0002	0.0005	0.0002
311.00	2001	215,450,999	407,040	0		0	215,858,039	215,654,519	0.0000	0.0004	0.0000
311.00	2000	215,204,093	246,906	0		0	215,450,999	215,327,546	0.0000	0.0004	0.0000
311.00	1999	211,350,263	3,853,830	0		0	215,204,093	213,277,178	0.0000	0.0004	0.0000
311.00	1998	193,981,954	17,368,308	0		0	211,350,263	202,666,109	0.0000	0.0004	0.0000
311.00	1997	191,096,182	2,885,772	0		0	193,981,954	192,539,068	0.0000	0.0003	0.0000
311.00	1996	189,074,843	2,021,940	(601)		(601)	191,096,182	190,085,513	0.0000	0.0003	0.0000
311.00	1995	188,246,400	829,043	(601)		(601)	189,074,843	188,660,621	0.0000	0.0003	0.0000
311.00	1994	186,763,723	1,482,677	0		0	188,246,400	187,505,062	0.0000	0.0003	0.0000
311.00	1993	183,974,453	2,789,271	0		0	186,763,723	185,369,088	0.0000	0.0003	0.0000
311.00	1992	182,643,767	1,330,685	0		0	183,974,453	183,309,110	0.0000	0.0003	0.0000
311.00	1991	183,429,842	(766,957)	(19,118)		(19,118)	182,643,767	183,036,805	0.0001	0.0003	0.0001
311.00	1990	174,171,759	9,389,823	(131,739)		(131,739)	183,429,842	178,800,800	0.0007	0.0003	0.0007
311.00	1989	172,095,950	1,667,531	408,277		408,277	174,171,759	173,133,854	-0.0024	0.0002	-0.0024
311.00	1988	170,685,167	1,410,784	0		0	172,095,950	171,390,559	0.0000	0.0002	0.0000
311.00	1987	166,909,058	4,041,983	(265,874)		(265,874)	170,685,167	168,797,113	0.0016	0.0002	0.0016
311.00	1986	165,870,751	1,070,242	(31,935)		(31,935)	166,909,058	166,389,905	0.0002	0.0002	0.0002
311.00	1985	161,006,105	5,242,432	(377,786)		(377,786)	165,870,751	163,438,428	0.0023	0.0003	0.0023
311.00	1984	159,775,252	1,235,025	(4,173)		(4,173)	161,006,105	160,390,679	0.0000	0.0003	0.0000
311.00	1983	156,668,069	3,108,117	(933)		(933)	159,775,252	158,221,661	0.0000	0.0003	0.0000
311.00	1982	152,804,450	3,863,619	0		0	156,668,069	154,736,260	0.0000	0.0003	0.0000
311.00	1981	144,222,306	8,585,530	(3,386)		(3,386)	152,804,450	148,513,378	0.0000	0.0003	0.0000
311.00	1980	139,839,491	4,154,749	228,065		228,065	144,222,306	142,030,899	-0.0016	0.0002	-0.0016
311.00	1979	132,974,272	7,110,369	(245,150)		(245,150)	139,839,491	136,406,882	0.0018	0.0003	0.0018
311.00	1978	129,725,610	3,317,808	(69,145)		(69,145)	132,974,272	131,349,941	0.0005	0.0003	0.0005
311.00	1977	113,644,993	16,097,977	(17,360)		(17,360)	129,725,610	121,685,301	0.0001	0.0003	0.0001
311.00	1976	104,474,998	9,179,293	(9,299)		(9,299)	113,644,993	109,059,995	0.0001	0.0003	0.0001

Los Angeles Department of Water and Power
Depreciation Study
Plant in Service as of June 30, 2015

Interim Retirement Rate Analysis

Plant Classification: Steam Production Plant
Account Number: 312.00
Plant Account: Boiler Plant Equipment
End of Year Study Balance: $774,647,079
Recommended IRR:

PLANT ACCOUNT INPUT:

Fiscal Year ending June 30

Account	Year	BOY Balance	Addition	Total Retirement	Terminal Retirement	Interim Retirement	EOY Balance	Average Balance	Retirement Ratio Annual	Retirement Ratio Cumulative	Retirement Ratio 5-Yr Avg.
312.00	2015	757,991,267	16,655,812	0		0	774,647,079	766,319,173	0.0000	0.0000	0.0000
312.00	2014	757,323,290	667,978	0		0	757,991,267	757,657,278	0.0000	0.0000	0.0000
312.00	2013	753,120,300	4,202,990	0		0	757,323,290	755,221,795	0.0000	0.0000	0.0000
312.00	2012	742,315,717	10,804,583	0		0	753,120,300	747,718,008	0.0000	0.0000	0.0000
312.00	2011	722,367,477	19,948,240	0		0	742,315,717	732,341,597	0.0000	0.0000	0.0000
312.00	2010	705,861,266	16,506,211	0		0	722,367,477	714,114,371	0.0000	0.0000	0.0000
312.00	2009	699,108,173	6,753,092	0		0	705,861,266	702,484,719	0.0000	0.0000	0.0000
312.00	2008	699,531,539	80,442	(503,808)		(503,808)	699,108,173	699,319,856	0.0007	0.0001	0.0007
312.00	2007	695,006,044	4,525,495	0		0	699,531,539	697,268,792	0.0000	0.0001	0.0000
312.00	2006	691,585,549	3,422,746	(2,250)		(2,250)	695,006,044	693,295,796	0.0000	0.0001	0.0000
312.00	2005	682,226,932	11,075,492	(1,716,875)	(4,472,940)	2,756,065	691,585,549	686,906,240	-0.0040	-0.0003	-0.0040
312.00	2004	680,840,300	1,386,631	0		0	682,226,932	681,533,616	0.0000	-0.0003	0.0000
312.00	2003	681,521,263	1,805,082	(2,486,046)	(2,486,046)	0	680,840,300	681,180,782	0.0000	-0.0002	0.0000
312.00	2002	705,958,358	43,986,525	(68,423,619)	(29,362,090)	(39,061,529)	681,521,263	693,739,811	0.0563	0.0037	0.0563
312.00	2001	695,463,372	10,494,986	0		0	705,958,358	700,710,865	0.0000	0.0034	0.0000
312.00	2000	689,624,026	5,839,346	0		0	695,463,372	692,543,699	0.0000	0.0032	0.0000
312.00	1999	591,517,838	98,106,188	0		0	689,624,026	640,570,932	0.0000	0.0031	0.0000
312.00	1998	582,153,147	9,364,691	0		0	591,517,838	586,835,493	0.0000	0.0029	0.0000
312.00	1997	575,334,965	6,818,182	0		0	582,153,147	578,744,056	0.0000	0.0028	0.0000
312.00	1996	567,744,463	7,608,545	(18,043)		(18,043)	575,334,965	571,539,714	0.0000	0.0027	0.0000
312.00	1995	555,131,847	12,634,034	(21,419)		(21,419)	567,744,463	561,438,155	0.0000	0.0026	0.0000
312.00	1994	498,849,743	56,307,689	(25,585)		(25,585)	555,131,847	526,990,795	0.0000	0.0025	0.0000
312.00	1993	465,884,782	32,997,219	(32,258)		(32,258)	498,849,743	482,367,263	0.0001	0.0024	0.0001
312.00	1992	454,773,731	17,235,691	(6,124,640)		(6,124,640)	465,884,782	460,329,257	0.0133	0.0027	0.0133
312.00	1991	412,508,561	42,373,074	(107,904)		(107,904)	454,773,731	433,641,146	0.0002	0.0027	0.0002
312.00	1990	391,853,089	20,704,423	(48,951)		(48,951)	412,508,561	402,180,825	0.0001	0.0026	0.0001
312.00	1989	395,034,583	7,313,505	(10,495,000)		(10,495,000)	391,853,089	393,443,836	0.0267	0.0032	0.0267
312.00	1988	383,565,480	13,173,184	(1,704,081)		(1,704,081)	395,034,583	389,300,032	0.0044	0.0032	0.0044
312.00	1987	380,504,000	3,079,859	(18,379)		(18,379)	383,565,480	382,034,740	0.0000	0.0031	0.0000
312.00	1986	379,042,447	1,472,519	(10,965)		(10,965)	380,504,000	379,773,223	0.0000	0.0030	0.0000
312.00	1985	375,429,259	3,865,682	(252,495)		(252,495)	379,042,447	377,235,853	0.0007	0.0030	0.0007
312.00	1984	373,255,620	2,236,958	(63,320)		(63,320)	375,429,259	374,342,439	0.0002	0.0029	0.0002
312.00	1983	369,444,174	3,814,362	(2,916)		(2,916)	373,255,620	371,349,897	0.0000	0.0029	0.0000
312.00	1982	346,655,675	22,932,419	(143,920)		(143,920)	369,444,174	358,049,924	0.0004	0.0028	0.0004
312.00	1981	345,332,911	2,120,497	(797,733)		(797,733)	346,655,675	345,994,293	0.0023	0.0028	0.0023
312.00	1980	339,246,874	6,539,567	(453,530)		(453,530)	345,332,911	342,289,892	0.0013	0.0028	0.0013
312.00	1979	332,561,792	6,719,213	(34,131)		(34,131)	339,246,874	335,904,333	0.0001	0.0028	0.0001
312.00	1978	329,528,966	3,033,769	(943)		(943)	332,561,792	331,045,379	0.0000	0.0027	0.0000
312.00	1977	322,398,357	7,138,577	(7,968)		(7,968)	329,528,966	325,963,661	0.0000	0.0027	0.0000
312.00	1976	282,851,703	39,546,653	0		0	322,398,357	302,625,030	0.0000	0.0026	0.0000

Los Angeles Department of Water and Power
Depreciation Study
Plant in Service as of June 30, 2015

Interim Retirement Rate Analysis

Plant Classification: Steam Production Plant
Account Number: 314.00
Plant Account: Turbogenerator Units
End of Year Study Balance: $492,693,394
Recommended IRR:

PLANT ACCOUNT INPUT:

Fiscal Year ending June 30

Account	Year	BOY Balance	Addition	Total Retirement	Terminal Retirement	Interim Retirement	EOY Balance	Average Balance	Retirement Ratio Annual	Retirement Ratio Cumulative	Retirement Ratio 5-Yr Avg.
314.00	2015	470,257,182	22,436,212	0		0	492,693,394	481,475,288	0.0000	0.0000	0.0000
314.00	2014	443,655,573	26,601,608	0		0	470,257,182	456,956,378	0.0000	0.0000	0.0000
314.00	2013	437,837,297	5,818,276	0		0	443,655,573	440,746,435	0.0000	0.0000	0.0000
314.00	2012	432,858,829	4,978,469	0		0	437,837,297	435,348,063	0.0000	0.0000	0.0000
314.00	2011	432,015,772	843,057	0		0	432,858,829	432,437,300	0.0000	0.0000	0.0000
314.00	2010	431,859,474	156,298	0		0	432,015,772	431,937,623	0.0000	0.0000	0.0000
314.00	2009	431,196,174	663,299	0		0	431,859,474	431,527,824	0.0000	0.0000	0.0000
314.00	2008	428,949,828	2,850,053	(603,706)		(603,706)	431,196,174	430,073,001	0.0014	0.0002	0.0014
314.00	2007	428,462,801	487,027	0		0	428,949,828	428,706,314	0.0000	0.0002	0.0000
314.00	2006	425,989,217	2,473,584	0		0	428,462,801	427,226,009	0.0000	0.0001	0.0000
314.00	2005	184,292,724	241,705,017	(8,524)		(8,524)	425,989,217	305,140,971	0.0000	0.0001	0.0000
314.00	2004	184,232,401	60,323	0		0	184,292,724	184,262,563	0.0000	0.0001	0.0000
314.00	2003	184,951,915	1,760,984	(2,480,497)	(2,480,497)	0	184,232,401	184,592,158	0.0000	0.0001	0.0000
314.00	2002	198,243,970	82,764	(13,374,820)	(7,999,844)	(5,374,976)	184,951,915	191,597,943	0.0281	0.0011	0.0281
314.00	2001	196,613,182	1,630,788	0		0	198,243,970	197,428,576	0.0000	0.0011	0.0000
314.00	2000	195,067,358	1,545,824	0		0	196,613,182	195,840,270	0.0000	0.0011	0.0000
314.00	1999	193,658,782	1,408,575	0		0	195,067,358	194,363,070	0.0000	0.0010	0.0000
314.00	1998	190,812,847	2,845,935	0		0	193,658,782	192,235,815	0.0000	0.0010	0.0000
314.00	1997	189,883,692	929,155	0		0	190,812,847	190,348,269	0.0000	0.0010	0.0000
314.00	1996	188,364,639	1,519,053	0		0	189,883,692	189,124,165	0.0000	0.0009	0.0000
314.00	1995	188,176,136	188,503	0		0	188,364,639	188,270,387	0.0000	0.0009	0.0000
314.00	1994	188,049,331	126,805	0		0	188,176,136	188,112,733	0.0000	0.0009	0.0000
314.00	1993	187,959,731	89,600	0		0	188,049,331	188,004,531	0.0000	0.0009	0.0000
314.00	1992	191,096,425	540,722	(3,677,415)		(3,677,415)	187,959,731	189,528,078	0.0194	0.0013	0.0194
314.00	1991	189,547,343	1,549,081	0		0	191,096,425	190,321,884	0.0000	0.0013	0.0000
314.00	1990	189,435,128	112,215	0		0	189,547,343	189,491,236	0.0000	0.0013	0.0000
314.00	1989	188,614,997	820,131	0		0	189,435,128	189,025,063	0.0000	0.0012	0.0000
314.00	1988	184,882,100	3,735,419	(2,521)		(2,521)	188,614,997	186,748,548	0.0000	0.0012	0.0000
314.00	1987	185,665,106	1,523	(784,529)		(784,529)	184,882,100	185,273,603	0.0042	0.0013	0.0042
314.00	1986	185,118,468	546,638	0		0	185,665,106	185,391,787	0.0000	0.0013	0.0000
314.00	1985	184,823,957	294,511	0		0	185,118,468	184,971,213	0.0000	0.0012	0.0000
314.00	1984	183,815,906	1,008,052	0		0	184,823,957	184,319,931	0.0000	0.0012	0.0000
314.00	1983	182,959,315	1,068,191	(211,600)		(211,600)	183,815,906	183,387,610	0.0012	0.0012	0.0012
314.00	1982	182,520,488	438,828	0		0	182,959,315	182,739,901	0.0000	0.0012	0.0000
314.00	1981	181,839,064	683,558	(2,135)		(2,135)	182,520,488	182,179,776	0.0000	0.0012	0.0000
314.00	1980	180,817,739	1,021,325	0		0	181,839,064	181,328,401	0.0000	0.0011	0.0000
314.00	1979	180,407,804	443,896	(33,960)		(33,960)	180,817,739	180,612,771	0.0002	0.0011	0.0002
314.00	1978	179,109,058	1,298,746	0		0	180,407,804	179,758,431	0.0000	0.0011	0.0000
314.00	1977	177,831,323	1,277,735	0		0	179,109,058	178,470,190	0.0000	0.0011	0.0000
314.00	1976	170,996,176	6,838,875	(3,729)		(3,729)	177,831,323	174,413,750	0.0000	0.0011	0.0000

Los Angeles Department of Water and Power
Depreciation Study
Plant in Service as of June 30, 2015

Interim Retirement Rate Analysis

Plant Classification: Steam Production Plant
Account Number: 315.00
Plant Account: Accessory Electric Equipment
End of Year Study Balance: $103,231,342
Recommended IRR:

PLANT ACCOUNT INPUT:

Fiscal Year ending June 30

Account	Year	BOY Balance	Addition	Total Retirement		Interim Retirement	EOY Balance	Average Balance	Retirement Ratio Annual	Cumulative	5-Yr Avg.
315.00	2015	94,798,506	8,432,836	0		0	103,231,342	99,014,924	0.0000	0.0000	0.0000
315.00	2014	92,194,894	2,603,611	0		0	94,798,506	93,496,700	0.0000	0.0000	0.0000
315.00	2013	84,991,392	7,203,502	0		0	92,194,894	88,593,143	0.0000	0.0000	0.0000
315.00	2012	83,273,168	1,718,225	0		0	84,991,392	84,132,280	0.0000	0.0000	0.0000
315.00	2011	74,922,589	8,350,578	0		0	83,273,168	79,097,878	0.0000	0.0000	0.0000
315.00	2010	72,793,181	2,129,408	0		0	74,922,589	73,857,885	0.0000	0.0000	0.0000
315.00	2009	70,068,448	2,724,733	0		0	72,793,181	71,430,815	0.0000	0.0000	0.0000
315.00	2008	69,190,826	877,622	0		0	70,068,448	69,629,637	0.0000	0.0000	0.0000
315.00	2007	68,098,382	1,092,444	0		0	69,190,826	68,644,604	0.0000	0.0000	0.0000
315.00	2006	66,181,933	1,916,449	0		0	68,098,382	67,140,158	0.0000	0.0000	0.0000
315.00	2005	62,937,848	3,246,514	(2,429)		(2,429)	66,181,933	64,559,890	0.0000	0.0000	0.0000
315.00	2004	58,416,344	4,521,504	0		0	62,937,848	60,677,096	0.0000	0.0000	0.0000
315.00	2003	56,937,736	1,844,585	(365,976)		(365,976)	58,416,344	57,677,040	0.0063	0.0004	0.0063
315.00	2002	61,292,011	261,542	(4,615,817)	(3,241,301)	(1,374,516)	56,937,736	59,114,873	0.0233	0.0017	0.0233
315.00	2001	59,402,235	1,889,775	0		0	61,292,011	60,347,123	0.0000	0.0016	0.0000
315.00	2000	59,129,056	273,180	0		0	59,402,235	59,265,645	0.0000	0.0015	0.0000
315.00	1999	58,812,288	316,767	0		0	59,129,056	58,970,672	0.0000	0.0014	0.0000
315.00	1998	58,420,082	392,206	0		0	58,812,288	58,616,185	0.0000	0.0014	0.0000
315.00	1997	58,397,354	22,728	0		0	58,420,082	58,408,718	0.0000	0.0013	0.0000
315.00	1996	58,332,927	64,427	0		0	58,397,354	58,365,141	0.0000	0.0013	0.0000
315.00	1995	58,246,267	86,661	0		0	58,332,927	58,289,597	0.0000	0.0012	0.0000
315.00	1994	57,929,689	316,577	0		0	58,246,267	58,087,978	0.0000	0.0012	0.0000
315.00	1993	57,824,032	105,657	0		0	57,929,689	57,876,861	0.0000	0.0011	0.0000
315.00	1992	58,346,986	367,659	(890,613)		(890,613)	57,824,032	58,085,509	0.0153	0.0016	0.0153
315.00	1991	58,109,436	237,550	0		0	58,346,986	58,228,211	0.0000	0.0016	0.0000
315.00	1990	57,720,823	388,613	0		0	58,109,436	57,915,129	0.0000	0.0015	0.0000
315.00	1989	57,372,752	348,071	0		0	57,720,823	57,546,787	0.0000	0.0015	0.0000
315.00	1988	56,856,834	518,008	(2,091)		(2,091)	57,372,752	57,114,793	0.0000	0.0014	0.0000
315.00	1987	56,775,294	81,540	0		0	56,856,834	56,816,064	0.0000	0.0014	0.0000
315.00	1986	56,150,342	624,952	0		0	56,775,294	56,462,818	0.0000	0.0013	0.0000
315.00	1985	55,821,486	328,856	0		0	56,150,342	55,985,914	0.0000	0.0013	0.0000
315.00	1984	55,815,815	5,670	0		0	55,821,486	55,818,650	0.0000	0.0013	0.0000
315.00	1983	55,803,310	12,506	0		0	55,815,815	55,809,562	0.0000	0.0012	0.0000
315.00	1982	55,631,021	172,288	0		0	55,803,310	55,717,165	0.0000	0.0012	0.0000
315.00	1981	55,537,343	93,678	0		0	55,631,021	55,584,182	0.0000	0.0012	0.0000
315.00	1980	55,134,557	405,327	(2,541)		(2,541)	55,537,343	55,335,950	0.0000	0.0011	0.0000
315.00	1979	54,211,618	922,938	0		0	55,134,557	54,673,088	0.0000	0.0011	0.0000
315.00	1978	54,057,912	160,760	(7,054)		(7,054)	54,211,618	54,134,765	0.0001	0.0011	0.0001
315.00	1977	53,093,812	964,100	0		0	54,057,912	53,575,862	0.0000	0.0011	0.0000
315.00	1976	43,095,776	9,998,036	0		0	53,093,812	48,094,794	0.0000	0.0011	0.0000

Los Angeles Department of Water and Power
Depreciation Study
Plant in Service as of June 30, 2015

Interim Retirement Rate Analysis

Plant Classification: Steam Production Plant
Account Number: 316.00
Plant Account: Misc Power Plant Equipment
End of Year Study Balance: $50,145,364
Recommended IRR:

PLANT ACCOUNT INPUT:

Fiscal Year ending June 30

		BOY		Total	Terminal	Interim	EOY	Average	Retirement Ratio		
Account	Year	Balance	Addition	Retirement	Retirement	Retirement	Balance	Balance	Annual	Cumulative	5-Yr Avg.
316.00	2015	47,496,616	2,648,747	0		0	50,145,364	48,820,990	0.0000	0.0000	0.0000
316.00	2014	45,962,701	1,533,915	0		0	47,496,616	46,729,659	0.0000	0.0000	0.0000
316.00	2013	44,297,197	1,665,504	0		0	45,962,701	45,129,949	0.0000	0.0000	0.0000
316.00	2012	42,713,774	1,583,423	0		0	44,297,197	43,505,485	0.0000	0.0000	0.0000
316.00	2011	38,710,376	4,003,398	0		0	42,713,774	40,712,075	0.0000	0.0000	0.0000
316.00	2010	36,363,022	2,347,353	0		0	38,710,376	37,536,699	0.0000	0.0000	0.0000
316.00	2009	34,050,941	2,312,081	0		0	36,363,022	35,206,982	0.0000	0.0000	0.0000
316.00	2008	41,260,467	567,589	(7,777,115)	(7,777,115)	0	34,050,941	37,655,704	0.0000	0.0000	0.0000
316.00	2007	39,595,702	1,789,334	(124,568)		(124,568)	41,260,467	40,428,085	0.0031	0.0003	0.0031
316.00	2006	38,646,995	960,520	(11,813)		(11,813)	39,595,702	39,121,348	0.0003	0.0003	0.0003
316.00	2005	37,114,983	1,608,489	(76,477)		(76,477)	38,646,995	37,880,989	0.0020	0.0005	0.0020
316.00	2004	36,680,732	475,304	(41,053)		(41,053)	37,114,983	36,897,857	0.0011	0.0005	0.0011
316.00	2003	34,954,294	1,982,500	(256,062)		(256,062)	36,680,732	35,817,513	0.0071	0.0010	0.0071
316.00	2002	42,485,890	187,766	(7,719,361)	(6,207,813)	(1,511,548)	34,954,294	38,720,092	0.0390	0.0036	0.0390
316.00	2001	42,389,343	96,547	0		0	42,485,890	42,437,616	0.0000	0.0033	0.0000
316.00	2000	41,673,394	715,948	0		0	42,389,343	42,031,369	0.0000	0.0031	0.0000
316.00	1999	41,289,186	384,879	(670)		(670)	41,673,394	41,481,290	0.0000	0.0029	0.0000
316.00	1998	38,531,838	2,757,347	0		0	41,289,186	39,910,512	0.0000	0.0028	0.0000
316.00	1997	37,255,934	1,276,073	(169)		(169)	38,531,838	37,893,886	0.0000	0.0026	0.0000
316.00	1996	35,608,722	1,659,504	(12,292)		(12,292)	37,255,934	36,432,328	0.0003	0.0025	0.0003
316.00	1995	31,129,976	4,494,725	(15,979)		(15,979)	35,608,722	33,369,349	0.0005	0.0024	0.0005
316.00	1994	29,137,448	2,318,768	(326,239)		(326,239)	31,129,976	30,133,712	0.0108	0.0027	0.0108
316.00	1993	26,825,126	2,315,540	(3,219)		(3,219)	29,137,448	27,981,287	0.0001	0.0027	0.0001
316.00	1992	25,450,267	1,660,788	(285,928)		(285,928)	26,825,126	26,137,697	0.0109	0.0029	0.0109
316.00	1991	24,041,769	1,412,046	(3,548)		(3,548)	25,450,267	24,746,018	0.0001	0.0028	0.0001
316.00	1990	21,747,630	2,300,796	(6,657)		(6,657)	24,041,769	22,894,700	0.0003	0.0028	0.0003
316.00	1989	18,091,729	3,659,501	(3,601)		(3,601)	21,747,630	19,919,679	0.0002	0.0027	0.0002
316.00	1988	17,535,703	613,687	(57,661)		(57,661)	18,091,729	17,813,716	0.0032	0.0027	0.0032
316.00	1987	16,749,002	791,847	(5,146)		(5,146)	17,535,703	17,142,353	0.0003	0.0027	0.0003
316.00	1986	15,280,494	1,519,332	(50,824)		(50,824)	16,749,002	16,014,748	0.0032	0.0027	0.0032
316.00	1985	14,131,421	1,162,506	(13,433)		(13,433)	15,280,494	14,705,957	0.0009	0.0027	0.0009
316.00	1984	13,994,748	182,957	(46,284)		(46,284)	14,131,421	14,063,084	0.0033	0.0027	0.0033
316.00	1983	13,610,510	390,029	(5,792)		(5,792)	13,994,748	13,802,629	0.0004	0.0026	0.0004
316.00	1982	13,537,081	82,153	(8,724)		(8,724)	13,610,510	13,573,796	0.0006	0.0026	0.0006
316.00	1981	13,281,869	257,882	(2,670)		(2,670)	13,537,081	13,409,475	0.0002	0.0026	0.0002
316.00	1980	12,903,411	380,174	(1,716)		(1,716)	13,281,869	13,092,640	0.0001	0.0026	0.0001
316.00	1979	11,901,467	1,003,933	(1,989)		(1,989)	12,903,411	12,402,439	0.0002	0.0025	0.0002
316.00	1978	11,664,047	242,906	(5,487)		(5,487)	11,901,467	11,782,757	0.0005	0.0025	0.0005
316.00	1977	11,455,090	212,145	(3,188)		(3,188)	11,664,047	11,559,569	0.0003	0.0025	0.0003
316.00	1976	10,097,565	1,366,768	(9,243)		(9,243)	11,455,090	10,776,327	0.0009	0.0025	0.0009

Los Angeles Department of Water and Power
Depreciation Study
Plant in Service as of June 30, 2015

Interim Retirement Rate Analysis

Plant Classification: Nuclear Production Plant
Account Number: 321.00
Plant Account: Structures and Improvements
End of Year Study Balance: $127,559,989
Recommended IRR:

PLANT ACCOUNT INPUT:

Fiscal Year ending June 30

Account	Year	BOY Balance	Addition	Total Retirement	Terminal Retirement	Interim Retirement	EOY Balance	Average Balance	Retirement Ratio Annual	Cumulative	5-Yr Avg.
321.00	2015	123,810,061	4,257,871	(507,943)		(507,943)	127,559,989	125,685,025	0.0040	0.0040	0.0040
321.00	2014	120,967,500	3,639,355	(796,794)		(796,794)	123,810,061	122,388,780	0.0065	0.0053	0.0053
321.00	2013	112,986,288	9,048,949	(1,067,737)		(1,067,737)	120,967,500	116,976,894	0.0091	0.0065	0.0065
321.00	2012	107,294,894	6,732,095	(1,040,702)		(1,040,702)	112,986,288	110,140,591	0.0094	0.0072	0.0072
321.00	2011	103,712,201	4,092,153	(509,459)		(509,459)	107,294,894	105,503,547	0.0048	0.0068	0.0068
321.00	2010	97,687,034	6,359,790	(334,623)		(334,623)	103,712,201	100,699,617	0.0033	0.0062	0.0067
321.00	2009	96,365,414	1,850,207	(528,587)		(528,587)	97,687,034	97,026,224	0.0054	0.0061	0.0066
321.00	2008	96,202,338	318,616	(155,540)		(155,540)	96,365,414	96,283,876	0.0016	0.0056	0.0050
321.00	2007	91,719,162	4,957,296	(474,120)		(474,120)	96,202,338	93,960,750	0.0050	0.0056	0.0041
321.00	2006	90,571,201	1,568,760	(420,799)		(420,799)	91,719,162	91,145,181	0.0046	0.0055	0.0040
321.00	2005	90,565,788	7,096	(1,683)		(1,683)	90,571,201	90,568,494	0.0000	0.0051	0.0034
321.00	2004	89,177,058	2,319,124	(930,394)		(930,394)	90,565,788	89,871,423	0.0104	0.0055	0.0043
321.00	2003	87,382,023	1,795,035	0		0	89,177,058	88,279,540	0.0000	0.0051	0.0040
321.00	2002	87,359,355	41,063	(18,395)		(18,395)	87,382,023	87,370,689	0.0002	0.0048	0.0031
321.00	2001	87,326,937	71,166	(38,748)		(38,748)	87,359,355	87,343,146	0.0004	0.0045	0.0022
321.00	2000	86,655,852	694,177	(23,092)		(23,092)	87,326,937	86,991,394	0.0003	0.0043	0.0023
321.00	1999	86,568,512	856,766	(769,426)		(769,426)	86,655,852	86,612,182	0.0089	0.0045	0.0019
321.00	1998	86,514,308	103,521	(49,317)		(49,317)	86,568,512	86,541,410	0.0006	0.0043	0.0021
321.00	1997	85,865,122	649,186	0		0	86,514,308	86,189,715	0.0000	0.0041	0.0020
321.00	1996	85,893,066	0	(27,944)		(27,944)	85,865,122	85,879,094	0.0003	0.0040	0.0020
321.00	1995	85,820,217	104,748	(31,899)		(31,899)	85,893,066	85,856,641	0.0004	0.0038	0.0020
321.00	1994	85,566,239	415,905	(161,927)		(161,927)	85,820,217	85,693,228	0.0019	0.0037	0.0006
321.00	1993	85,629,777	0	(63,538)		(63,538)	85,566,239	85,598,008	0.0007	0.0036	0.0007
321.00	1992	79,634,120	6,035,461	(39,804)		(39,804)	85,629,777	82,631,949	0.0005	0.0035	0.0008
321.00	1991	79,192,541	446,754	(5,175)		(5,175)	79,634,120	79,413,331	0.0001	0.0034	0.0007
321.00	1990	79,270,409	0	(77,868)		(77,868)	79,192,541	79,231,475	0.0010	0.0033	0.0008
321.00	1989	79,279,390	20,916	(29,896)		(29,896)	79,270,409	79,274,899	0.0004	0.0032	0.0005
321.00	1988	62,666,666	16,612,723	0		0	79,279,390	70,973,028	0.0000	0.0031	0.0004
321.00	1987	16,000,577	46,666,089	0		0	62,666,666	39,333,622	0.0000	0.0031	0.0003
321.00	1986	0	16,000,577	0		0	16,000,577	8,000,289	0.0000	0.0031	0.0004
321.00	1985	0	0	0		0	0	0	0.0000	0.0031	0.0002
321.00	1984	0	0	0		0	0	0	0.0000	0.0031	0.0000
321.00	1983	0	0	0		0	0	0	0.0000	0.0031	0.0000
321.00	1982	0	0	0		0	0	0	0.0000	0.0031	0.0000
321.00	1981	0	0	0		0	0	0	0.0000	0.0031	0.0000
321.00	1980	0	0	0		0	0	0	0.0000	0.0031	0.0000
321.00	1979	0	0	0		0	0	0	0.0000	0.0031	0.0000
321.00	1978	0	0	0		0	0	0	0.0000	0.0031	0.0000
321.00	1977	0	0	0		0	0	0	0.0000	0.0031	0.0000
321.00	1976	0	0	0		0	0	0	0.0000	0.0031	0.0000

Los Angeles Department of Water and Power
Depreciation Study
Plant in Service as of June 30, 2015

Interim Retirement Rate Analysis

Plant Classification: Nuclear Production Plant
Account Number: 322.00
Plant Account: Reactor Plant Equipment
End of Year Study Balance: $275,440,220
Recommended IRR:

PLANT ACCOUNT INPUT:

Fiscal Year ending June 30

Account	Year	BOY Balance	Addition	Total Retirement	Terminal Retirement	Interim Retirement	EOY Balance	Average Balance	Retirement Ratio Annual	Cumulative	5-Yr Avg.
322.00	2015	273,284,805	2,485,368	(329,953)		(329,953)	275,440,220	274,362,513	0.0012	0.0012	0.0012
322.00	2014	270,089,878	4,389,854	(1,194,927)		(1,194,927)	273,284,805	271,687,342	0.0044	0.0028	0.0028
322.00	2013	268,655,610	1,630,245	(195,977)		(195,977)	270,089,878	269,372,744	0.0007	0.0021	0.0021
322.00	2012	268,199,083	812,511	(355,984)		(355,984)	268,655,610	268,427,347	0.0013	0.0019	0.0019
322.00	2011	262,916,263	6,402,282	(1,119,462)		(1,119,462)	268,199,083	265,557,673	0.0042	0.0024	0.0024
322.00	2010	253,997,640	11,120,381	(2,201,758)		(2,201,758)	262,916,263	258,456,952	0.0085	0.0034	0.0038
322.00	2009	254,740,523	0	(742,883)		(742,883)	253,997,640	254,369,082	0.0029	0.0033	0.0035
322.00	2008	242,264,049	15,546,355	(3,069,881)		(3,069,881)	254,740,523	248,502,286	0.0124	0.0044	0.0058
322.00	2007	240,320,413	2,259,563	(315,927)		(315,927)	242,264,049	241,292,231	0.0013	0.0041	0.0059
322.00	2006	227,729,482	16,159,930	(3,568,999)		(3,568,999)	240,320,413	234,024,948	0.0153	0.0051	0.0080
322.00	2005	227,092,478	1,331,199	(694,195)		(694,195)	227,729,482	227,410,980	0.0031	0.0049	0.0070
322.00	2004	215,530,332	14,332,311	(2,770,165)		(2,770,165)	227,092,478	221,311,405	0.0125	0.0055	0.0089
322.00	2003	215,573,691	45,825	(89,184)		(89,184)	215,530,332	215,552,012	0.0004	0.0051	0.0065
322.00	2002	215,099,528	1,389,615	(915,452)		(915,452)	215,573,691	215,336,610	0.0043	0.0051	0.0072
322.00	2001	214,669,576	580,766	(150,814)		(150,814)	215,099,528	214,884,552	0.0007	0.0048	0.0042
322.00	2000	214,462,671	680,949	(474,044)		(474,044)	214,669,576	214,566,124	0.0022	0.0047	0.0041
322.00	1999	215,432,423	794,682	(1,764,434)		(1,764,434)	214,462,671	214,947,547	0.0082	0.0049	0.0032
322.00	1998	214,432,581	1,435,410	(435,568)		(435,568)	215,432,423	214,932,502	0.0020	0.0047	0.0035
322.00	1997	214,046,908	385,673	0		0	214,432,581	214,239,745	0.0000	0.0045	0.0026
322.00	1996	213,176,085	1,612,721	(741,897)		(741,897)	214,046,908	213,611,497	0.0035	0.0044	0.0032
322.00	1995	213,005,348	625,643	(454,906)		(454,906)	213,176,085	213,090,716	0.0021	0.0043	0.0032
322.00	1994	211,504,020	2,122,314	(620,986)		(620,986)	213,005,348	212,254,684	0.0029	0.0043	0.0021
322.00	1993	207,468,799	4,741,165	(705,944)		(705,944)	211,504,020	209,486,409	0.0034	0.0043	0.0024
322.00	1992	207,688,325	872,633	(1,092,159)		(1,092,159)	207,468,799	207,578,562	0.0053	0.0043	0.0034
322.00	1991	207,000,479	1,305,972	(618,126)		(618,126)	207,688,325	207,344,402	0.0030	0.0042	0.0033
322.00	1990	202,144,149	6,164,713	(1,308,383)		(1,308,383)	207,000,479	204,572,314	0.0064	0.0043	0.0042
322.00	1989	203,183,494	0	(1,039,345)		(1,039,345)	202,144,149	202,663,822	0.0051	0.0043	0.0046
322.00	1988	134,804,144	68,379,350	0		0	203,183,494	168,993,819	0.0000	0.0042	0.0041
322.00	1987	75,857,040	58,947,104	0		0	134,804,144	105,330,592	0.0000	0.0042	0.0033
322.00	1986	0	75,857,040	0		0	75,857,040	37,928,520	0.0000	0.0041	0.0033
322.00	1985	0	0	0		0	0	0	0.0000	0.0041	0.0020
322.00	1984	0	0	0		0	0	0	0.0000	0.0041	0.0000
322.00	1983	0	0	0		0	0	0	0.0000	0.0041	0.0000
322.00	1982	0	0	0		0	0	0	0.0000	0.0041	0.0000
322.00	1981	0	0	0		0	0	0	0.0000	0.0041	0.0000
322.00	1980	0	0	0		0	0	0	0.0000	0.0041	0.0000
322.00	1979	0	0	0		0	0	0	0.0000	0.0041	0.0000
322.00	1978	0	0	0		0	0	0	0.0000	0.0041	0.0000
322.00	1977	0	0	0		0	0	0	0.0000	0.0041	0.0000
322.00	1976	0	0	0		0	0	0	0.0000	0.0041	0.0000

Los Angeles Department of Water and Power
Depreciation Study
Plant in Service as of June 30, 2015

Interim Retirement Rate Analysis

Plant Classification: Nuclear Production Plant
Account Number: 323.00
Plant Account: Turbogenerator Units
End of Year Study Balance: $85,502,360
Recommended IRR:

PLANT ACCOUNT INPUT:

Fiscal Year ending June 30

Account	Year	BOY Balance	Addition	Total Retirement	Terminal Retirement	Interim Retirement	EOY Balance	Average Balance	Retirement Ratio Annual	Cumulative	5-Yr Avg.
323.00	2015	84,923,183	914,596	(335,419)		(335,419)	85,502,360	85,212,772	0.0039	0.0039	0.0039
323.00	2014	83,191,456	2,513,934	(782,207)		(782,207)	84,923,183	84,057,320	0.0093	0.0066	0.0066
323.00	2013	81,465,194	2,276,534	(550,272)		(550,272)	83,191,456	82,328,325	0.0067	0.0066	0.0066
323.00	2012	80,443,253	1,528,147	(506,206)		(506,206)	81,465,194	80,954,224	0.0063	0.0065	0.0065
323.00	2011	78,891,238	2,119,986	(567,971)		(567,971)	80,443,253	79,667,246	0.0071	0.0067	0.0067
323.00	2010	78,130,512	1,170,000	(409,274)		(409,274)	78,891,238	78,510,875	0.0052	0.0064	0.0069
323.00	2009	78,751,162	0	(620,650)		(620,650)	78,130,512	78,440,837	0.0079	0.0066	0.0066
323.00	2008	79,524,049	1,922,541	(2,695,428)		(2,695,428)	78,751,162	79,137,606	0.0341	0.0100	0.0121
323.00	2007	79,528,865	0	(4,816)		(4,816)	79,524,049	79,526,457	0.0001	0.0089	0.0109
323.00	2006	78,136,544	2,846,433	(1,454,112)		(1,454,112)	79,528,865	78,832,705	0.0184	0.0098	0.0131
323.00	2005	78,190,441	0	(53,897)		(53,897)	78,136,544	78,163,493	0.0007	0.0090	0.0123
323.00	2004	76,720,260	3,793,069	(2,322,888)		(2,322,888)	78,190,441	77,455,351	0.0300	0.0107	0.0166
323.00	2003	76,642,451	134,099	(56,290)		(56,290)	76,720,260	76,681,356	0.0007	0.0100	0.0100
323.00	2002	76,606,951	104,141	(68,641)		(68,641)	76,642,451	76,624,701	0.0009	0.0093	0.0102
323.00	2001	76,270,792	571,991	(235,832)		(235,832)	76,606,951	76,438,872	0.0031	0.0089	0.0071
323.00	2000	75,426,738	932,955	(88,901)		(88,901)	76,270,792	75,848,765	0.0012	0.0085	0.0072
323.00	1999	75,597,555	594,000	(764,817)		(764,817)	75,426,738	75,512,147	0.0101	0.0086	0.0032
323.00	1998	75,209,443	486,931	(98,819)		(98,819)	75,597,555	75,403,499	0.0013	0.0082	0.0033
323.00	1997	75,188,439	21,004	0		0	75,209,443	75,198,941	0.0000	0.0078	0.0031
323.00	1996	75,031,790	169,668	(13,019)		(13,019)	75,188,439	75,110,115	0.0002	0.0074	0.0026
323.00	1995	74,758,211	448,404	(174,825)		(174,825)	75,031,790	74,895,001	0.0023	0.0072	0.0028
323.00	1994	74,467,234	361,950	(70,973)		(70,973)	74,758,211	74,612,723	0.0010	0.0069	0.0010
323.00	1993	72,934,349	1,449,745	83,140		83,140	74,467,234	73,700,792	-0.0011	0.0066	0.0005
323.00	1992	73,410,741	0	(476,392)		(476,392)	72,934,349	73,172,545	0.0065	0.0066	0.0018
323.00	1991	73,403,599	17,212	(10,070)		(10,070)	73,410,741	73,407,170	0.0001	0.0063	0.0018
323.00	1990	69,066,460	4,417,057	(79,918)		(79,918)	73,403,599	71,235,030	0.0011	0.0061	0.0015
323.00	1989	69,078,428	34,252	(46,220)		(46,220)	69,066,460	69,072,444	0.0007	0.0060	0.0015
323.00	1988	42,174,931	26,903,497	0		0	69,078,428	55,626,680	0.0000	0.0058	0.0018
323.00	1987	21,188,293	20,986,638	0		0	42,174,931	31,681,612	0.0000	0.0057	0.0005
323.00	1986	0	21,188,293	0		0	21,188,293	10,594,147	0.0000	0.0057	0.0005
323.00	1985	0	0	0		0	0	0	0.0000	0.0057	0.0003
323.00	1984	0	0	0		0	0	0	0.0000	0.0057	0.0000
323.00	1983	0	0	0		0	0	0	0.0000	0.0057	0.0000
323.00	1982	0	0	0		0	0	0	0.0000	0.0057	0.0000
323.00	1981	0	0	0		0	0	0	0.0000	0.0057	0.0000
323.00	1980	0	0	0		0	0	0	0.0000	0.0057	0.0000
323.00	1979	0	0	0		0	0	0	0.0000	0.0057	0.0000
323.00	1978	0	0	0		0	0	0	0.0000	0.0057	0.0000
323.00	1977	0	0	0		0	0	0	0.0000	0.0057	0.0000
323.00	1976	0	0	0		0	0	0	0.0000	0.0057	0.0000

Los Angeles Department of Water and Power
Depreciation Study
Plant in Service as of June 30, 2015

Interim Retirement Rate Analysis

Plant Classification: Nuclear Production Plant
Account Number: 324.00
Plant Account: Accessory Electric Equipment
End of Year Study Balance: $63,384,335
Recommended IRR:

PLANT ACCOUNT INPUT:

Fiscal Year ending June 30

Account	Year	BOY Balance	Addition	Total Retirement	Terminal Retirement	Interim Retirement	EOY Balance	Average Balance	Retirement Ratio Annual	Cumulative	5-Yr Avg.
324.00	2015	62,483,132	983,520	(82,317)		(82,317)	63,384,335	62,933,734	0.0013	0.0013	0.0013
324.00	2014	62,538,908	405,161	(460,937)		(460,937)	62,483,132	62,511,020	0.0074	0.0043	0.0043
324.00	2013	62,116,077	497,955	(75,124)		(75,124)	62,538,908	62,327,493	0.0012	0.0033	0.0033
324.00	2012	61,729,939	440,310	(54,172)		(54,172)	62,116,077	61,923,008	0.0009	0.0027	0.0027
324.00	2011	61,635,870	194,088	(100,019)		(100,019)	61,729,939	61,682,905	0.0016	0.0025	0.0025
324.00	2010	61,460,382	313,057	(137,569)		(137,569)	61,635,870	61,548,126	0.0022	0.0024	0.0027
324.00	2009	60,650,004	904,569	(94,191)		(94,191)	61,460,382	61,055,193	0.0015	0.0023	0.0015
324.00	2008	60,442,326	362,241	(154,563)		(154,563)	60,650,004	60,546,165	0.0026	0.0023	0.0018
324.00	2007	60,446,285	0	(3,959)		(3,959)	60,442,326	60,444,306	0.0001	0.0021	0.0016
324.00	2006	59,761,530	906,538	(221,783)		(221,783)	60,446,285	60,103,908	0.0037	0.0023	0.0020
324.00	2005	59,756,566	4,964	0		0	59,761,530	59,759,048	0.0000	0.0021	0.0016
324.00	2004	59,709,497	266,777	(219,708)		(219,708)	59,756,566	59,733,032	0.0037	0.0022	0.0020
324.00	2003	59,559,295	212,592	(62,390)		(62,390)	59,709,497	59,634,396	0.0010	0.0021	0.0017
324.00	2002	59,535,695	104,318	(80,718)		(80,718)	59,559,295	59,547,495	0.0014	0.0020	0.0020
324.00	2001	59,529,397	29,019	(22,721)		(22,721)	59,535,695	59,532,546	0.0004	0.0019	0.0013
324.00	2000	59,401,874	160,040	(32,517)		(32,517)	59,529,397	59,465,636	0.0005	0.0019	0.0014
324.00	1999	59,182,220	368,600	(148,946)		(148,946)	59,401,874	59,292,047	0.0025	0.0019	0.0012
324.00	1998	59,130,870	65,298	(13,948)		(13,948)	59,182,220	59,156,545	0.0002	0.0018	0.0010
324.00	1997	59,102,572	28,298	0		0	59,130,870	59,116,721	0.0000	0.0017	0.0007
324.00	1996	59,102,572	0	0		0	59,102,572	59,102,572	0.0000	0.0016	0.0007
324.00	1995	59,071,197	44,616	(13,241)		(13,241)	59,102,572	59,086,884	0.0002	0.0016	0.0006
324.00	1994	58,084,503	1,008,770	(22,076)		(22,076)	59,071,197	58,577,850	0.0004	0.0015	0.0002
324.00	1993	57,645,191	459,221	(19,909)		(19,909)	58,084,503	57,864,847	0.0003	0.0015	0.0002
324.00	1992	57,717,377	0	(72,186)		(72,186)	57,645,191	57,681,284	0.0013	0.0015	0.0004
324.00	1991	57,752,714	30,237	(65,574)		(65,574)	57,717,377	57,735,046	0.0011	0.0014	0.0007
324.00	1990	44,479,951	13,359,934	(87,171)		(87,171)	57,752,714	51,116,333	0.0017	0.0014	0.0009
324.00	1989	44,483,896	6,305	(10,250)		(10,250)	44,479,951	44,481,924	0.0002	0.0014	0.0009
324.00	1988	15,755,067	28,728,829	0		0	44,483,896	30,119,482	0.0000	0.0014	0.0010
324.00	1987	9,216,824	6,538,243	0		0	15,755,067	12,485,946	0.0000	0.0014	0.0008
324.00	1986	0	9,216,824	0		0	9,216,824	4,608,412	0.0000	0.0014	0.0007
324.00	1985	0	0	0		0	0	0	0.0000	0.0014	0.0001
324.00	1984	0	0	0		0	0	0	0.0000	0.0014	0.0000
324.00	1983	0	0	0		0	0	0	0.0000	0.0014	0.0000
324.00	1982	0	0	0		0	0	0	0.0000	0.0014	0.0000
324.00	1981	0	0	0		0	0	0	0.0000	0.0014	0.0000
324.00	1980	0	0	0		0	0	0	0.0000	0.0014	0.0000
324.00	1979	0	0	0		0	0	0	0.0000	0.0014	0.0000
324.00	1978	0	0	0		0	0	0	0.0000	0.0014	0.0000
324.00	1977	0	0	0		0	0	0	0.0000	0.0014	0.0000
324.00	1976	0	0	0		0	0	0	0.0000	0.0014	0.0000

Los Angeles Department of Water and Power
Depreciation Study
Plant in Service as of June 30, 2015

Interim Retirement Rate Analysis

Plant Classification: Nuclear Production Plant
Account Number: 325.00
Plant Account: Misc Power plant Equipment
End of Year Study Balance: $37,702,137
Recommended IRR:

PLANT ACCOUNT INPUT:

Fiscal Year ending June 30

Account	Year	BOY Balance	Addition	Total Retirement	Terminal Retirement	Interim Retirement	EOY Balance	Average Balance	Retirement Ratio Annual	Cumulative	5-Yr Avg.
325.00	2015	33,329,201	4,387,710	(14,774)		(14,774)	37,702,137	35,515,669	0.0004	0.0004	0.0004
325.00	2014	32,890,823	604,026	(165,648)		(165,648)	33,329,201	33,110,012	0.0050	0.0026	0.0026
325.00	2013	30,812,413	2,571,929	(493,519)		(493,519)	32,890,823	31,851,618	0.0155	0.0067	0.0067
325.00	2012	30,140,628	761,875	(90,090)		(90,090)	30,812,413	30,476,521	0.0030	0.0058	0.0058
325.00	2011	29,337,020	888,541	(84,933)		(84,933)	30,140,628	29,738,824	0.0029	0.0053	0.0053
325.00	2010	28,046,234	1,431,040	(140,254)		(140,254)	29,337,020	28,691,627	0.0049	0.0052	0.0063
325.00	2009	27,786,813	292,043	(32,622)		(32,622)	28,046,234	27,916,524	0.0012	0.0047	0.0057
325.00	2008	27,703,731	112,861	(29,779)		(29,779)	27,786,813	27,745,272	0.0011	0.0043	0.0026
325.00	2007	27,294,907	457,817	(48,993)		(48,993)	27,703,731	27,499,319	0.0018	0.0040	0.0024
325.00	2006	26,885,768	498,851	(89,712)		(89,712)	27,294,907	27,090,338	0.0033	0.0040	0.0025
325.00	2005	26,883,849	1,919	0		0	26,885,768	26,884,809	0.0000	0.0036	0.0015
325.00	2004	26,705,812	185,617	(7,580)		(7,580)	26,883,849	26,794,831	0.0003	0.0034	0.0013
325.00	2003	26,537,475	172,310	(3,973)		(3,973)	26,705,812	26,621,644	0.0001	0.0032	0.0011
325.00	2002	26,524,402	20,360	(7,287)		(7,287)	26,537,475	26,530,939	0.0003	0.0030	0.0008
325.00	2001	26,425,789	149,270	(50,657)		(50,657)	26,524,402	26,475,096	0.0019	0.0029	0.0005
325.00	2000	30,014,567	310,158	(3,898,936)		(3,898,936)	26,425,789	28,220,178	0.1382	0.0112	0.0295
325.00	1999	30,234,910	0	(220,343)		(220,343)	30,014,567	30,124,739	0.0073	0.0109	0.0303
325.00	1998	30,173,602	61,765	(457)		(457)	30,234,910	30,204,256	0.0000	0.0103	0.0295
325.00	1997	29,888,929	284,673	0		0	30,173,602	30,031,265	0.0000	0.0098	0.0288
325.00	1996	29,327,980	560,949	0		0	29,888,929	29,608,454	0.0000	0.0093	0.0278
325.00	1995	28,726,875	669,651	(68,546)		(68,546)	29,327,980	29,027,428	0.0024	0.0089	0.0019
325.00	1994	28,302,428	2,175,223	(1,750,776)		(1,750,776)	28,726,875	28,514,652	0.0614	0.0113	0.0123
325.00	1993	28,326,764	0	(24,336)		(24,336)	28,302,428	28,314,596	0.0009	0.0108	0.0127
325.00	1992	23,249,604	5,077,160	0		0	28,326,764	25,788,184	0.0000	0.0104	0.0131
325.00	1991	22,536,272	812,786	(99,454)		(99,454)	23,249,604	22,892,938	0.0043	0.0102	0.0144
325.00	1990	22,557,149	0	(20,877)		(20,877)	22,536,272	22,546,711	0.0009	0.0099	0.0148
325.00	1989	22,328,108	236,757	(7,716)		(7,716)	22,557,149	22,442,628	0.0003	0.0097	0.0012
325.00	1988	14,038,663	8,289,445	0		0	22,328,108	18,183,385	0.0000	0.0094	0.0011
325.00	1987	7,878,621	6,160,042	0		0	14,038,663	10,958,642	0.0000	0.0093	0.0013
325.00	1986	0	7,878,621	0		0	7,878,621	3,939,311	0.0000	0.0093	0.0004
325.00	1985	0	0	0		0	0	0	0.0000	0.0093	0.0001
325.00	1984	0	0	0		0	0	0	0.0000	0.0093	0.0000
325.00	1983	0	0	0		0	0	0	0.0000	0.0093	0.0000
325.00	1982	0	0	0		0	0	0	0.0000	0.0093	0.0000
325.00	1981	0	0	0		0	0	0	0.0000	0.0093	0.0000
325.00	1980	0	0	0		0	0	0	0.0000	0.0093	0.0000
325.00	1979	0	0	0		0	0	0	0.0000	0.0093	0.0000
325.00	1978	0	0	0		0	0	0	0.0000	0.0093	0.0000
325.00	1977	0	0	0		0	0	0	0.0000	0.0093	0.0000
325.00	1976	0	0	0		0	0	0	0.0000	0.0093	0.0000

Los Angeles Department of Water and Power
Depreciation Study
Plant in Service as of June 30, 2015

Interim Retirement Rate Analysis

Plant Classification: Hydraulic Production Plant
Account Number: 331.00
Plant Account: Structures and Improvements
End of Year Study Balance: $116,910,970
Recommended IRR:

PLANT ACCOUNT INPUT:

Fiscal Year ending June 30

Account	Year	BOY Balance	Addition	Total Retirement	Terminal Retirement	Interim Retirement	EOY Balance	Average Balance	Retirement Ratio Annual	Cumulative	5-Yr Avg.
331.00	2015	115,804,291	1,106,679	0		0	116,910,970	116,357,631	0.0000	0.0000	0.0000
331.00	2014	113,956,603	1,847,689	0		0	115,804,291	114,880,447	0.0000	0.0000	0.0000
331.00	2013	112,769,593	1,187,010	0		0	113,956,603	113,363,098	0.0000	0.0000	0.0000
331.00	2012	104,233,828	8,535,765	0		0	112,769,593	108,501,710	0.0000	0.0000	0.0000
331.00	2011	98,806,043	5,427,785	0		0	104,233,828	101,519,935	0.0000	0.0000	0.0000
331.00	2010	91,320,661	7,485,382	0		0	98,806,043	95,063,352	0.0000	0.0000	0.0000
331.00	2009	90,200,357	1,120,304	0		0	91,320,661	90,760,509	0.0000	0.0000	0.0000
331.00	2008	90,106,989	93,368	0		0	90,200,357	90,153,673	0.0000	0.0000	0.0000
331.00	2007	89,764,913	342,076	0		0	90,106,989	89,935,951	0.0000	0.0000	0.0000
331.00	2006	89,328,145	436,768	0		0	89,764,913	89,546,529	0.0000	0.0000	0.0000
331.00	2005	89,342,337	94,784	(108,976)		(108,976)	89,328,145	89,335,241	0.0012	0.0001	0.0002
331.00	2004	89,249,140	93,198	0		0	89,342,337	89,295,738	0.0000	0.0001	0.0002
331.00	2003	89,231,416	17,724	0		0	89,249,140	89,240,278	0.0000	0.0001	0.0002
331.00	2002	89,924,051	81,769	(774,405)		(774,405)	89,231,416	89,577,734	0.0086	0.0006	0.0020
331.00	2001	89,860,619	63,432	0		0	89,924,051	89,892,335	0.0000	0.0006	0.0020
331.00	2000	89,783,264	77,355	0		0	89,860,619	89,821,941	0.0000	0.0006	0.0017
331.00	1999	89,469,203	364,118	(50,057)		(50,057)	89,783,264	89,626,233	0.0006	0.0006	0.0018
331.00	1998	89,319,642	149,561	0		0	89,469,203	89,394,422	0.0000	0.0005	0.0018
331.00	1997	89,040,376	279,266	0		0	89,319,642	89,180,009	0.0000	0.0005	0.0001
331.00	1996	88,994,008	46,368	0		0	89,040,376	89,017,192	0.0000	0.0005	0.0001
331.00	1995	88,784,049	209,959	0		0	88,994,008	88,889,028	0.0000	0.0005	0.0001
331.00	1994	88,754,000	30,049	0		0	88,784,049	88,769,024	0.0000	0.0004	0.0000
331.00	1993	88,356,859	397,141	0		0	88,754,000	88,555,429	0.0000	0.0004	0.0000
331.00	1992	87,608,241	748,618	0		0	88,356,859	87,982,550	0.0000	0.0004	0.0000
331.00	1991	87,236,654	371,587	0		0	87,608,241	87,422,447	0.0000	0.0004	0.0000
331.00	1990	85,820,621	1,486,494	(70,462)		(70,462)	87,236,654	86,528,637	0.0008	0.0004	0.0002
331.00	1989	85,609,769	485,471	(274,618)		(274,618)	85,820,621	85,715,195	0.0032	0.0005	0.0008
331.00	1988	85,378,768	356,999	(125,998)		(125,998)	85,609,769	85,494,268	0.0015	0.0005	0.0011
331.00	1987	84,637,837	797,198	(56,266)		(56,266)	85,378,768	85,008,302	0.0007	0.0005	0.0012
331.00	1986	82,276,524	2,361,312	0		0	84,637,837	83,457,180	0.0000	0.0005	0.0012
331.00	1985	81,965,658	310,867	0		0	82,276,524	82,121,091	0.0000	0.0005	0.0011
331.00	1984	81,204,173	761,485	0		0	81,965,658	81,584,915	0.0000	0.0005	0.0004
331.00	1983	81,167,656	36,517	0		0	81,204,173	81,185,915	0.0000	0.0005	0.0001
331.00	1982	80,956,658	210,998	0		0	81,167,656	81,062,157	0.0000	0.0005	0.0000
331.00	1981	78,527,168	2,532,409	(102,919)		(102,919)	80,956,658	79,741,913	0.0013	0.0005	0.0003
331.00	1980	78,448,066	79,102	0		0	78,527,168	78,487,617	0.0000	0.0005	0.0003
331.00	1979	64,584,320	13,863,747	0		0	78,448,066	71,516,193	0.0000	0.0005	0.0003
331.00	1978	43,396,193	21,188,127	0		0	64,584,320	53,990,256	0.0000	0.0005	0.0003
331.00	1977	29,835,334	13,562,654	(1,795)		(1,795)	43,396,193	36,615,763	0.0000	0.0005	0.0003
331.00	1976	29,725,274	110,061	0		0	29,835,334	29,780,304	0.0000	0.0005	0.0000

Los Angeles Department of Water and Power
Depreciation Study
Plant in Service as of June 30, 2015

Interim Retirement Rate Analysis

Plant Classification: Hydraulic Production Plant
Account Number: 332.00
Plant Account: Resivoirs, Dams, and Waterways
End of Year Study Balance: $253,265,763
Recommended IRR:

PLANT ACCOUNT INPUT:

Fiscal Year ending June 30

		BOY		Total	Terminal	Interim	EOY	Average	Retirement Ratio		
Account	Year	Balance	Addition	Retirement	Retirement	Retirement	Balance	Balance	Annual	Cumulative	5-Yr Avg.
332.00	2015	246,417,088	6,848,675	0		0	253,265,763	249,841,426	0.0000	0.0000	0.0000
332.00	2014	245,311,302	1,105,787	0		0	246,417,088	245,864,195	0.0000	0.0000	0.0000
332.00	2013	245,213,481	97,821	0		0	245,311,302	245,262,391	0.0000	0.0000	0.0000
332.00	2012	244,732,427	481,053	0		0	245,213,481	244,972,954	0.0000	0.0000	0.0000
332.00	2011	240,244,419	4,488,008	0		0	244,732,427	242,488,423	0.0000	0.0000	0.0000
332.00	2010	239,569,737	674,682	0		0	240,244,419	239,907,078	0.0000	0.0000	0.0000
332.00	2009	239,531,842	37,895	0		0	239,569,737	239,550,790	0.0000	0.0000	0.0000
332.00	2008	239,531,842	0	0		0	239,531,842	239,531,842	0.0000	0.0000	0.0000
332.00	2007	239,531,842	0	0		0	239,531,842	239,531,842	0.0000	0.0000	0.0000
332.00	2006	239,490,057	41,785	0		0	239,531,842	239,510,950	0.0000	0.0000	0.0000
332.00	2005	239,523,576	1,085	(34,603)		(34,603)	239,490,057	239,506,817	0.0001	0.0000	0.0000
332.00	2004	239,522,076	1,500	0		0	239,523,576	239,522,826	0.0000	0.0000	0.0000
332.00	2003	239,381,987	140,089	0		0	239,522,076	239,452,031	0.0000	0.0000	0.0000
332.00	2002	240,591,400	98,395	(1,307,808)		(1,307,808)	239,381,987	239,986,693	0.0054	0.0004	0.0011
332.00	2001	240,591,400	(0)	0		0	240,591,400	240,591,400	0.0000	0.0004	0.0011
332.00	2000	240,588,066	3,334	0		0	240,591,400	240,589,733	0.0000	0.0003	0.0011
332.00	1999	240,587,953	113	0		0	240,588,066	240,588,010	0.0000	0.0003	0.0011
332.00	1998	240,529,744	58,210	0		0	240,587,953	240,558,849	0.0000	0.0003	0.0011
332.00	1997	240,496,157	33,909	(323)		(323)	240,529,744	240,512,950	0.0000	0.0003	0.0000
332.00	1996	235,903,563	4,592,594	0		0	240,496,157	238,199,860	0.0000	0.0003	0.0000
332.00	1995	234,152,244	1,751,319	0		0	235,903,563	235,027,903	0.0000	0.0003	0.0000
332.00	1994	233,772,469	379,774	0		0	234,152,244	233,962,356	0.0000	0.0003	0.0000
332.00	1993	233,726,243	46,226	0		0	233,772,469	233,749,356	0.0000	0.0002	0.0000
332.00	1992	233,359,828	366,415	0		0	233,726,243	233,543,035	0.0000	0.0002	0.0000
332.00	1991	232,133,679	1,226,149	0		0	233,359,828	232,746,753	0.0000	0.0002	0.0000
332.00	1990	232,105,441	30,173	(1,934)		(1,934)	232,133,679	232,119,560	0.0000	0.0002	0.0000
332.00	1989	227,478,965	4,626,475	0		0	232,105,441	229,792,203	0.0000	0.0002	0.0000
332.00	1988	227,053,522	425,443	0		0	227,478,965	227,266,244	0.0000	0.0002	0.0000
332.00	1987	226,777,645	275,877	0		0	227,053,522	226,915,583	0.0000	0.0002	0.0000
332.00	1986	225,683,890	1,093,755	0		0	226,777,645	226,230,767	0.0000	0.0002	0.0000
332.00	1985	224,496,599	1,187,291	0		0	225,683,890	225,090,245	0.0000	0.0002	0.0000
332.00	1984	223,969,100	527,500	0		0	224,496,599	224,232,849	0.0000	0.0002	0.0000
332.00	1983	216,701,507	7,267,592	0		0	223,969,100	220,335,303	0.0000	0.0002	0.0000
332.00	1982	215,815,416	886,091	0		0	216,701,507	216,258,462	0.0000	0.0002	0.0000
332.00	1981	216,516,882	(701,466)	0		0	215,815,416	216,166,149	0.0000	0.0002	0.0000
332.00	1980	216,515,773	1,109	0		0	216,516,882	216,516,328	0.0000	0.0002	0.0000
332.00	1979	183,583,241	32,932,532	0		0	216,515,773	200,049,507	0.0000	0.0002	0.0000
332.00	1978	125,598,991	57,984,250	0		0	183,583,241	154,591,116	0.0000	0.0002	0.0000
332.00	1977	91,272,850	34,326,141	0		0	125,598,991	108,435,921	0.0000	0.0002	0.0000
332.00	1976	90,987,925	284,907	19		19	91,272,850	91,130,388	0.0000	0.0001	0.0000

Los Angeles Department of Water and Power
Depreciation Study
Plant in Service as of June 30, 2015

Interim Retirement Rate Analysis

Plant Classification: Hydraulic Production Plant
Account Number: 333.00
Plant Account: Water Wheels, Turbines, Generation
End of Year Study Balance: $208,762,028
Recommended IRR:

PLANT ACCOUNT INPUT:

Fiscal Year ending June 30

		BOY		Total	Terminal	Interim	EOY	Average	Retirement Ratio		
Account	Year	Balance	Addition	Retirement	Retirement	Retirement	Balance	Balance	Annual	Cumulative	5-Yr Avg.
333.00	2015	148,748,801	60,013,226	0		0	208,762,028	178,755,415	0.0000	0.0000	0.0000
333.00	2014	105,343,292	43,405,510	0		0	148,748,801	127,046,047	0.0000	0.0000	0.0000
333.00	2013	106,264,103	(920,812)	0		0	105,343,292	105,803,697	0.0000	0.0000	0.0000
333.00	2012	95,198,536	11,065,567	0		0	106,264,103	100,731,320	0.0000	0.0000	0.0000
333.00	2011	96,264,809	(1,066,273)	0		0	95,198,536	95,731,673	0.0000	0.0000	0.0000
333.00	2010	91,748,904	4,515,905	0		0	96,264,809	94,006,857	0.0000	0.0000	0.0000
333.00	2009	89,967,658	1,781,246	0		0	91,748,904	90,858,281	0.0000	0.0000	0.0000
333.00	2008	97,192,697	5,837,502	(13,062,541)		(13,062,541)	89,967,658	93,580,177	0.1396	0.0147	0.0275
333.00	2007	97,183,896	8,801	0		0	97,192,697	97,188,297	0.0000	0.0133	0.0277
333.00	2006	91,539,581	6,144,315	(500,000)		(500,000)	97,183,896	94,361,739	0.0053	0.0126	0.0289
333.00	2005	91,379,053	763,943	(603,415)		(603,415)	91,539,581	91,459,317	0.0066	0.0121	0.0303
333.00	2004	91,368,484	10,569	0		0	91,379,053	91,373,769	0.0000	0.0112	0.0303
333.00	2003	91,345,301	23,183	0		0	91,368,484	91,356,893	0.0000	0.0105	0.0024
333.00	2002	97,182,728	0	(5,837,426)		(5,837,426)	91,345,301	94,264,015	0.0619	0.0138	0.0150
333.00	2001	97,143,593	39,135	0		0	97,182,728	97,163,161	0.0000	0.0130	0.0138
333.00	2000	97,119,441	24,153	0		0	97,143,593	97,131,517	0.0000	0.0122	0.0124
333.00	1999	97,119,074	367	0		0	97,119,441	97,119,257	0.0000	0.0115	0.0122
333.00	1998	95,941,696	1,177,378	0		0	97,119,074	96,530,385	0.0000	0.0109	0.0121
333.00	1997	95,824,803	116,892	0		0	95,941,696	95,883,249	0.0000	0.0104	0.0000
333.00	1996	96,281,043	(456,240)	0		0	95,824,803	96,052,923	0.0000	0.0099	0.0000
333.00	1995	94,974,301	1,306,743	0		0	96,281,043	95,627,672	0.0000	0.0094	0.0000
333.00	1994	94,897,042	77,258	0		0	94,974,301	94,935,672	0.0000	0.0090	0.0000
333.00	1993	94,964,558	(67,515)	0		0	94,897,042	94,930,800	0.0000	0.0087	0.0000
333.00	1992	93,647,487	1,317,071	0		0	94,964,558	94,306,022	0.0000	0.0083	0.0000
333.00	1991	92,548,072	1,099,415	0		0	93,647,487	93,097,779	0.0000	0.0080	0.0000
333.00	1990	90,522,924	2,025,148	0		0	92,548,072	91,535,498	0.0000	0.0077	0.0000
333.00	1989	93,469,256	(2,946,331)	0		0	90,522,924	91,996,090	0.0000	0.0075	0.0000
333.00	1988	85,662,719	7,810,006	(3,469)		(3,469)	93,469,256	89,565,987	0.0000	0.0072	0.0000
333.00	1987	75,485,775	10,176,944	0		0	85,662,719	80,574,247	0.0000	0.0070	0.0000
333.00	1986	72,464,007	3,123,405	(101,637)		(101,637)	75,485,775	73,974,891	0.0014	0.0069	0.0002
333.00	1985	70,274,340	2,904,338	(714,672)		(714,672)	72,464,007	71,369,173	0.0100	0.0069	0.0020
333.00	1984	59,996,671	11,122,188	(844,519)		(844,519)	70,274,340	65,135,506	0.0130	0.0071	0.0044
333.00	1983	59,664,843	331,828	0		0	59,996,671	59,830,757	0.0000	0.0069	0.0047
333.00	1982	59,556,539	109,179	(875)		(875)	59,664,843	59,610,691	0.0000	0.0068	0.0050
333.00	1981	61,013,208	(1,456,628)	(41)		(41)	59,556,539	60,284,873	0.0000	0.0067	0.0049
333.00	1980	60,646,858	366,350	0		0	61,013,208	60,830,033	0.0000	0.0066	0.0028
333.00	1979	51,269,590	9,377,268	0		0	60,646,858	55,958,224	0.0000	0.0064	0.0000
333.00	1978	34,650,979	17,204,749	(586,138)		(586,138)	51,269,590	42,960,285	0.0136	0.0065	0.0021
333.00	1977	25,929,215	8,721,764	0		0	34,650,979	30,290,097	0.0000	0.0065	0.0023
333.00	1976	25,841,288	88,412	(485)		(485)	25,929,215	25,885,252	0.0000	0.0064	0.0027

Los Angeles Department of Water and Power
Depreciation Study
Plant in Service as of June 30, 2015

Interim Retirement Rate Analysis

Plant Classification: Hydraulic Production Plant
Account Number: 334.00
Plant Account: Accessory Electric Equipment
End of Year Study Balance: $160,629,836
Recommended IRR:

PLANT ACCOUNT INPUT:

Fiscal Year ending June 30

Account	Year	BOY Balance	Addition	Total Retirement	Terminal Retirement	Interim Retirement	EOY Balance	Average Balance	Retirement Ratio Annual	Retirement Ratio Cumulative	Retirement Ratio 5-Yr Avg.
334.00	2015	152,509,745	8,120,091	0		0	160,629,836	156,569,791	0.0000	0.0000	0.0000
334.00	2014	124,141,665	28,368,080	0		0	152,509,745	138,325,705	0.0000	0.0000	0.0000
334.00	2013	120,524,337	3,617,328	0		0	124,141,665	122,333,001	0.0000	0.0000	0.0000
334.00	2012	119,908,241	616,096	0		0	120,524,337	120,216,289	0.0000	0.0000	0.0000
334.00	2011	108,672,941	11,235,300	0		0	119,908,241	114,290,591	0.0000	0.0000	0.0000
334.00	2010	96,557,890	15,020,809	(2,905,758)		(2,905,758)	108,672,941	102,615,415	0.0283	0.0039	0.0049
334.00	2009	78,862,407	17,695,483	0		0	96,557,890	87,710,149	0.0000	0.0035	0.0053
334.00	2008	79,840,812	696,912	(1,675,317)		(1,675,317)	78,862,407	79,351,610	0.0211	0.0050	0.0091
334.00	2007	59,728,098	20,112,714	0		0	79,840,812	69,784,455	0.0000	0.0046	0.0101
334.00	2006	51,995,809	7,733,088	(800)		(800)	59,728,098	55,861,953	0.0000	0.0044	0.0116
334.00	2005	42,824,048	9,426,102	(254,341)		(254,341)	51,995,809	47,409,929	0.0054	0.0044	0.0057
334.00	2004	42,587,502	236,546	0		0	42,824,048	42,705,775	0.0000	0.0043	0.0065
334.00	2003	42,176,453	411,049	0		0	42,587,502	42,381,977	0.0000	0.0041	0.0010
334.00	2002	45,172,552	0	(2,996,099)		(2,996,099)	42,176,453	43,674,503	0.0686	0.0064	0.0140
334.00	2001	45,052,138	120,414	0		0	45,172,552	45,112,345	0.0000	0.0062	0.0147
334.00	2000	44,967,865	84,273	0		0	45,052,138	45,010,001	0.0000	0.0060	0.0137
334.00	1999	44,948,896	18,969	0		0	44,967,865	44,958,380	0.0000	0.0058	0.0135
334.00	1998	44,962,331	(13,435)	0		0	44,948,896	44,955,614	0.0000	0.0056	0.0134
334.00	1997	44,515,746	446,585	0		0	44,962,331	44,739,039	0.0000	0.0054	0.0000
334.00	1996	44,515,746	0	0		0	44,515,746	44,515,746	0.0000	0.0052	0.0000
334.00	1995	44,113,099	404,553	(1,906)		(1,906)	44,515,746	44,314,422	0.0000	0.0051	0.0000
334.00	1994	43,210,096	903,003	0		0	44,113,099	43,661,597	0.0000	0.0050	0.0000
334.00	1993	42,677,409	532,687	0		0	43,210,096	42,943,753	0.0000	0.0048	0.0000
334.00	1992	41,648,670	1,030,428	(1,689)		(1,689)	42,677,409	42,163,040	0.0000	0.0047	0.0000
334.00	1991	37,514,776	4,453,169	(319,275)		(319,275)	41,648,670	39,581,723	0.0081	0.0048	0.0015
334.00	1990	35,597,735	1,931,976	(14,935)		(14,935)	37,514,776	36,556,255	0.0004	0.0047	0.0016
334.00	1989	33,800,389	1,797,346	0		0	35,597,735	34,699,062	0.0000	0.0046	0.0017
334.00	1988	27,267,596	6,534,196	(1,403)		(1,403)	33,800,389	30,533,992	0.0000	0.0045	0.0018
334.00	1987	26,064,741	1,203,715	(860)		(860)	27,267,596	26,666,169	0.0000	0.0045	0.0020
334.00	1986	25,567,512	497,229	0		0	26,064,741	25,816,127	0.0000	0.0044	0.0001
334.00	1985	25,426,219	145,773	(4,480)		(4,480)	25,567,512	25,496,866	0.0002	0.0043	0.0000
334.00	1984	24,470,289	956,843	(912)		(912)	25,426,219	24,948,254	0.0000	0.0043	0.0001
334.00	1983	23,178,518	1,335,186	(43,416)		(43,416)	24,470,289	23,824,404	0.0018	0.0043	0.0004
334.00	1982	23,005,930	176,491	(3,903)		(3,903)	23,178,518	23,092,224	0.0002	0.0042	0.0004
334.00	1981	21,768,767	1,239,493	(2,330)		(2,330)	23,005,930	22,387,349	0.0001	0.0042	0.0005
334.00	1980	21,759,781	8,987	0		0	21,768,767	21,764,274	0.0000	0.0041	0.0004
334.00	1979	14,087,825	7,690,770	(18,815)		(18,815)	21,759,781	17,923,803	0.0010	0.0041	0.0006
334.00	1978	10,004,287	4,086,107	(2,569)		(2,569)	14,087,825	12,046,056	0.0002	0.0041	0.0003
334.00	1977	7,824,809	2,192,568	(13,089)		(13,089)	10,004,287	8,914,548	0.0015	0.0041	0.0004
334.00	1976	7,621,323	207,507	(4,021)		(4,021)	7,824,809	7,723,066	0.0005	0.0040	0.0006

Los Angeles Department of Water and Power
Depreciation Study
Plant in Service as of June 30, 2015

Interim Retirement Rate Analysis

Plant Classification: Hydraulic Production Plant
Account Number: 335.00
Plant Account: Misc Power Plant Equipment
End of Year Study Balance: $13,163,099
Recommended IRR:

PLANT ACCOUNT INPUT:

Fiscal Year ending June 30

Account	Year	BOY Balance	Addition	Total Retirement	Terminal Retirement	Interim Retirement	EOY Balance	Average Balance	Retirement Ratio Annual	Retirement Ratio Cumulative	Retirement Ratio 5-Yr Avg.
335.00	2015	12,682,143	480,956	0		0	13,163,099	12,922,621	0.0000	0.0000	0.0000
335.00	2014	12,681,881	262	0		0	12,682,143	12,682,012	0.0000	0.0000	0.0000
335.00	2013	12,678,633	3,248	0		0	12,681,881	12,680,257	0.0000	0.0000	0.0000
335.00	2012	13,173,973	(495,340)	0		0	12,678,633	12,926,303	0.0000	0.0000	0.0000
335.00	2011	12,473,780	700,194	0		0	13,173,973	12,823,877	0.0000	0.0000	0.0000
335.00	2010	9,480,604	2,993,175	0		0	12,473,780	10,977,192	0.0000	0.0000	0.0000
335.00	2009	9,398,100	82,504	0		0	9,480,604	9,439,352	0.0000	0.0000	0.0000
335.00	2008	9,164,410	233,690	0		0	9,398,100	9,281,255	0.0000	0.0000	0.0000
335.00	2007	9,093,627	70,783	0		0	9,164,410	9,129,019	0.0000	0.0000	0.0000
335.00	2006	8,993,653	99,974	0		0	9,093,627	9,043,640	0.0000	0.0000	0.0000
335.00	2005	9,036,304	108,890	(151,541)		(151,541)	8,993,653	9,014,978	0.0168	0.0013	0.0033
335.00	2004	8,854,478	181,826	0		0	9,036,304	8,945,391	0.0000	0.0012	0.0033
335.00	2003	8,123,016	731,462	0		0	8,854,478	8,488,747	0.0000	0.0011	0.0034
335.00	2002	8,306,998	127,959	(311,941)		(311,941)	8,123,016	8,215,007	0.0380	0.0032	0.0106
335.00	2001	8,176,003	130,995	0		0	8,306,998	8,241,500	0.0000	0.0030	0.0108
335.00	2000	8,017,557	158,446	0		0	8,176,003	8,096,780	0.0000	0.0028	0.0074
335.00	1999	7,927,806	89,751	0		0	8,017,557	7,972,682	0.0000	0.0027	0.0076
335.00	1998	7,899,011	28,795	(0)		(0)	7,927,806	7,913,409	0.0000	0.0026	0.0077
335.00	1997	7,005,615	893,397	0		0	7,899,011	7,452,313	0.0000	0.0025	0.0000
335.00	1996	6,996,922	12,172	(3,479)		(3,479)	7,005,615	7,001,268	0.0005	0.0024	0.0001
335.00	1995	6,969,026	30,323	(2,428)		(2,428)	6,996,922	6,982,974	0.0003	0.0023	0.0002
335.00	1994	6,879,225	90,497	(696)		(696)	6,969,026	6,924,125	0.0001	0.0023	0.0002
335.00	1993	6,802,242	81,048	(4,065)		(4,065)	6,879,225	6,840,733	0.0006	0.0022	0.0003
335.00	1992	6,774,652	28,317	(728)		(728)	6,802,242	6,788,447	0.0001	0.0022	0.0003
335.00	1991	6,765,988	21,752	(13,088)		(13,088)	6,774,652	6,770,320	0.0019	0.0021	0.0006
335.00	1990	6,749,144	20,905	(4,061)		(4,061)	6,765,988	6,757,566	0.0006	0.0021	0.0007
335.00	1989	5,958,807	792,800	(2,463)		(2,463)	6,749,144	6,353,976	0.0004	0.0021	0.0007
335.00	1988	5,760,661	273,586	(75,439)		(75,439)	5,958,807	5,859,734	0.0129	0.0023	0.0029
335.00	1987	5,465,796	295,963	(1,098)		(1,098)	5,760,661	5,613,228	0.0002	0.0023	0.0031
335.00	1986	5,271,851	202,574	(8,629)		(8,629)	5,465,796	5,368,824	0.0016	0.0023	0.0031
335.00	1985	4,934,765	340,396	(3,309)		(3,309)	5,271,851	5,103,308	0.0006	0.0022	0.0032
335.00	1984	4,926,964	8,067	(266)		(266)	4,934,765	4,930,864	0.0001	0.0022	0.0033
335.00	1983	4,924,447	3,045	(528)		(528)	4,926,964	4,925,706	0.0001	0.0021	0.0005
335.00	1982	4,925,601	6,285	(7,439)		(7,439)	4,924,447	4,925,024	0.0015	0.0021	0.0008
335.00	1981	4,237,478	695,434	(7,310)		(7,310)	4,925,601	4,581,540	0.0016	0.0021	0.0008
335.00	1980	4,209,642	27,431	405		405	4,237,478	4,223,560	-0.0001	0.0021	0.0006
335.00	1979	3,298,302	785,519	125,821		125,821	4,209,642	3,753,972	-0.0335	0.0016	-0.0050
335.00	1978	2,214,133	1,100,562	(16,393)		(16,393)	3,298,302	2,756,218	0.0059	0.0017	-0.0047
335.00	1977	1,398,603	821,904	(6,373)		(6,373)	2,214,133	1,806,368	0.0035	0.0017	-0.0056
335.00	1976	1,462,061	25,914	(89,372)		(89,372)	1,398,603	1,430,332	0.0625	0.0020	-0.0010

Los Angeles Department of Water and Power
Depreciation Study
Plant in Service as of June 30, 2015

Interim Retirement Rate Analysis

Plant Classification: Hydraulic Production Plant
Account Number: 336.00
Plant Account: Roads, Railroads, and Bridges
End of Year Study Balance: $6,358,949
Recommended IRR:

PLANT ACCOUNT INPUT:

Fiscal Year ending June 30

Account	Year	BOY Balance	Addition	Total Retirement	Terminal Retirement	Interim Retirement	EOY Balance	Average Balance	Retirement Ratio Annual	Cumulative	5-Yr Avg.
336.00	2015	6,188,068	170,881	0		0	6,358,949	6,273,508	0.0000	0.0000	0.0000
336.00	2014	6,172,342	15,726	0		0	6,188,068	6,180,205	0.0000	0.0000	0.0000
336.00	2013	6,156,708	15,634	0		0	6,172,342	6,164,525	0.0000	0.0000	0.0000
336.00	2012	6,157,579	(871)	0		0	6,156,708	6,157,143	0.0000	0.0000	0.0000
336.00	2011	6,103,652	53,927	0		0	6,157,579	6,130,615	0.0000	0.0000	0.0000
336.00	2010	3,263,222	2,840,430	0		0	6,103,652	4,683,437	0.0000	0.0000	0.0000
336.00	2009	3,253,559	9,663	0		0	3,263,222	3,258,391	0.0000	0.0000	0.0000
336.00	2008	3,253,559	0	0		0	3,253,559	3,253,559	0.0000	0.0000	0.0000
336.00	2007	3,253,559	0	0		0	3,253,559	3,253,559	0.0000	0.0000	0.0000
336.00	2006	3,253,559	0	0		0	3,253,559	3,253,559	0.0000	0.0000	0.0000
336.00	2005	3,252,251	1,308	0		0	3,253,559	3,252,905	0.0000	0.0000	0.0000
336.00	2004	3,242,352	9,899	0		0	3,252,251	3,247,302	0.0000	0.0000	0.0000
336.00	2003	3,242,352	0	0		0	3,242,352	3,242,352	0.0000	0.0000	0.0000
336.00	2002	3,242,352	0	0		0	3,242,352	3,242,352	0.0000	0.0000	0.0000
336.00	2001	3,242,352	0	0		0	3,242,352	3,242,352	0.0000	0.0000	0.0000
336.00	2000	3,242,352	0	0		0	3,242,352	3,242,352	0.0000	0.0000	0.0000
336.00	1999	3,242,352	0	0		0	3,242,352	3,242,352	0.0000	0.0000	0.0000
336.00	1998	3,242,352	0	0		0	3,242,352	3,242,352	0.0000	0.0000	0.0000
336.00	1997	3,242,126	226	0		0	3,242,352	3,242,239	0.0000	0.0000	0.0000
336.00	1996	3,040,849	201,278	0		0	3,242,126	3,141,488	0.0000	0.0000	0.0000
336.00	1995	3,040,849	0	0		0	3,040,849	3,040,849	0.0000	0.0000	0.0000
336.00	1994	3,040,849	0	0		0	3,040,849	3,040,849	0.0000	0.0000	0.0000
336.00	1993	3,040,849	0	0		0	3,040,849	3,040,849	0.0000	0.0000	0.0000
336.00	1992	3,040,849	0	0		0	3,040,849	3,040,849	0.0000	0.0000	0.0000
336.00	1991	3,040,849	0	0		0	3,040,849	3,040,849	0.0000	0.0000	0.0000
336.00	1990	3,040,717	132	0		0	3,040,849	3,040,783	0.0000	0.0000	0.0000
336.00	1989	3,040,708	9	0		0	3,040,717	3,040,712	0.0000	0.0000	0.0000
336.00	1988	3,039,659	1,049	0		0	3,040,708	3,040,183	0.0000	0.0000	0.0000
336.00	1987	2,926,595	113,063	0		0	3,039,659	2,983,127	0.0000	0.0000	0.0000
336.00	1986	2,694,464	232,131	0		0	2,926,595	2,810,530	0.0000	0.0000	0.0000
336.00	1985	2,694,439	25	0		0	2,694,464	2,694,452	0.0000	0.0000	0.0000
336.00	1984	2,694,439	0	0		0	2,694,439	2,694,439	0.0000	0.0000	0.0000
336.00	1983	2,694,439	0	0		0	2,694,439	2,694,439	0.0000	0.0000	0.0000
336.00	1982	2,673,779	20,660	0		0	2,694,439	2,684,109	0.0000	0.0000	0.0000
336.00	1981	2,624,037	49,742	0		0	2,673,779	2,648,908	0.0000	0.0000	0.0000
336.00	1980	2,624,037	0	0		0	2,624,037	2,624,037	0.0000	0.0000	0.0000
336.00	1979	2,231,217	392,820	0		0	2,624,037	2,427,627	0.0000	0.0000	0.0000
336.00	1978	1,816,172	415,045	0		0	2,231,217	2,023,695	0.0000	0.0000	0.0000
336.00	1977	1,470,198	345,974	0		0	1,816,172	1,643,185	0.0000	0.0000	0.0000
336.00	1976	1,468,743	1,456	0		0	1,470,198	1,469,471	0.0000	0.0000	0.0000

Los Angeles Department of Water and Power
Depreciation Study
Plant in Service as of June 30, 2015

Interim Retirement Rate Analysis

Plant Classification: Hydraulic Production Plant
Account Number: 337.00
Plant Account: Asset Retirement Cost-Hydro
End of Year Study Balance: $4,334,326
Recommended IRR:

PLANT ACCOUNT INPUT:

Fiscal Year ending June 30

Account	Year	BOY Balance	Addition	Total Retirement	Terminal Retirement	Interim Retirement	EOY Balance	Average Balance	Retirement Ratio Annual	Cumulative	5-Yr Avg.
337.00	2015	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	2014	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	2013	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	2012	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	2011	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	2010	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	2009	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	2008	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	2007	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	2006	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	2005	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	2004	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	2003	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	2002	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	2001	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	2000	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	1999	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	1998	4,334,326	(0)	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	1997	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	1996	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	1995	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	1994	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	1993	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	1992	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	1991	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	1990	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	1989	4,334,326	0	0		0	4,334,326	4,334,326	0.0000	0.0000	0.0000
337.00	1988	4,334,892	0	(566)		(566)	4,334,326	4,334,609	0.0001	0.0000	0.0000
337.00	1987	4,334,892	0	0		0	4,334,892	4,334,892	0.0000	0.0000	0.0000
337.00	1986	4,334,892	0	0		0	4,334,892	4,334,892	0.0000	0.0000	0.0000
337.00	1985	4,334,892	0	0		0	4,334,892	4,334,892	0.0000	0.0000	0.0000
337.00	1984	4,334,892	0	0		0	4,334,892	4,334,892	0.0000	0.0000	0.0000
337.00	1983	4,334,892	0	0		0	4,334,892	4,334,892	0.0000	0.0000	0.0000
337.00	1982	4,334,892	0	0		0	4,334,892	4,334,892	0.0000	0.0000	0.0000
337.00	1981	4,334,892	0	0		0	4,334,892	4,334,892	0.0000	0.0000	0.0000
337.00	1980	4,335,210	(318)	0		0	4,334,892	4,335,051	0.0000	0.0000	0.0000
337.00	1979	4,334,892	318	0		0	4,335,210	4,335,051	0.0000	0.0000	0.0000
337.00	1978	4,330,502	4,390	0		0	4,334,892	4,332,697	0.0000	0.0000	0.0000
337.00	1977	4,284,858	45,644	0		0	4,330,502	4,307,680	0.0000	0.0000	0.0000
337.00	1976	3,854,910	429,948	0		0	4,284,858	4,069,884	0.0000	0.0000	0.0000

Los Angeles Department of Water and Power
Depreciation Study
Plant in Service as of June 30, 2015

Interim Retirement Rate Analysis

Plant Classification: Other Production Plant
Account Number: 341.00
Plant Account: Structures and Improvements
End of Year Study Balance: $131,658,323
Recommended IRR:

PLANT ACCOUNT INPUT:

Fiscal Year ending June 30

		BOY		Total	Terminal	Interim	EOY	Average	Retirement Ratio		
Account	Year	Balance	Addition	Retirement	Retirement	Retirement	Balance	Balance	Annual	Cumulative	5-Yr Avg.
341.00	2015	127,253,684	4,404,639	0		0	131,658,323	129,456,004	0.0000	0.0000	0.0000
341.00	2014	122,523,011	4,730,673	0		0	127,253,684	124,888,348	0.0000	0.0000	0.0000
341.00	2013	120,204,040	2,318,971	0		0	122,523,011	121,363,525	0.0000	0.0000	0.0000
341.00	2012	119,785,966	418,074	0		0	120,204,040	119,995,003	0.0000	0.0000	0.0000
341.00	2011	119,818,845	(32,879)	0		0	119,785,966	119,802,405	0.0000	0.0000	0.0000
341.00	2010	119,785,966	32,879	0		0	119,818,845	119,802,405	0.0000	0.0000	0.0000
341.00	2009	32,160,774	87,625,191	0		0	119,785,966	75,973,370	0.0000	0.0000	0.0000
341.00	2008	32,064,739	96,035	0		0	32,160,774	32,112,757	0.0000	0.0000	0.0000
341.00	2007	32,064,739	0	0		0	32,064,739	32,064,739	0.0000	0.0000	0.0000
341.00	2006	32,064,739	0	0		0	32,064,739	32,064,739	0.0000	0.0000	0.0000
341.00	2005	32,064,739	0	0		0	32,064,739	32,064,739	0.0000	0.0000	0.0000
341.00	2004	32,064,739	0	0		0	32,064,739	32,064,739	0.0000	0.0000	0.0000
341.00	2003	32,064,739	0	0		0	32,064,739	32,064,739	0.0000	0.0000	0.0000
341.00	2002	32,064,739	0	0		0	32,064,739	32,064,739	0.0000	0.0000	0.0000
341.00	2001	32,064,739	0	0		0	32,064,739	32,064,739	0.0000	0.0000	0.0000
341.00	2000	32,064,739	0	0		0	32,064,739	32,064,739	0.0000	0.0000	0.0000
341.00	1999	32,064,739	0	0		0	32,064,739	32,064,739	0.0000	0.0000	0.0000
341.00	1998	32,065,700	(961)	0		0	32,064,739	32,065,220	0.0000	0.0000	0.0000
341.00	1997	32,065,268	433	0		0	32,065,700	32,065,484	0.0000	0.0000	0.0000
341.00	1996	32,065,194	74	0		0	32,065,268	32,065,231	0.0000	0.0000	0.0000
341.00	1995	31,845,753	219,441	0		0	32,065,194	31,955,473	0.0000	0.0000	0.0000
341.00	1994	11,955,446	19,928,088	(37,782)		(37,782)	31,845,753	21,900,599	0.0017	0.0000	0.0003
341.00	1993	194,518	11,760,928	0		0	11,955,446	6,074,982	0.0000	0.0000	0.0003
341.00	1992	188,636	5,882	0		0	194,518	191,577	0.0000	0.0000	0.0004
341.00	1991	187,772	864	0		0	188,636	188,204	0.0000	0.0000	0.0006
341.00	1990	187,772	0	0		0	187,772	187,772	0.0000	0.0000	0.0013
341.00	1989	187,772	0	0		0	187,772	187,772	0.0000	0.0000	0.0000
341.00	1988	187,772	0	0		0	187,772	187,772	0.0000	0.0000	0.0000
341.00	1987	187,772	0	0		0	187,772	187,772	0.0000	0.0000	0.0000
341.00	1986	187,772	0	0		0	187,772	187,772	0.0000	0.0000	0.0000
341.00	1985	187,772	0	0		0	187,772	187,772	0.0000	0.0000	0.0000
341.00	1984	187,772	0	0		0	187,772	187,772	0.0000	0.0000	0.0000
341.00	1983	187,772	0	0		0	187,772	187,772	0.0000	0.0000	0.0000
341.00	1982	187,772	0	0		0	187,772	187,772	0.0000	0.0000	0.0000
341.00	1981	187,772	0	0		0	187,772	187,772	0.0000	0.0000	0.0000
341.00	1980	187,772	0	0		0	187,772	187,772	0.0000	0.0000	0.0000
341.00	1979	187,772	0	0		0	187,772	187,772	0.0000	0.0000	0.0000
341.00	1978	188,456	(684)	0		0	187,772	188,114	0.0000	0.0000	0.0000
341.00	1977	188,457	(1)	0		0	188,456	188,457	0.0000	0.0000	0.0000
341.00	1976	188,235	222	0		0	188,457	188,346	0.0000	0.0000	0.0000

Los Angeles Department of Water and Power
Depreciation Study
Plant in Service as of June 30, 2015

Interim Retirement Rate Analysis

Plant Classification: Other Production Plant
Account Number: 342.00
Plant Account: Fuel Holders, Producers, and Accessories
End of Year Study Balance: $64,166,301
Recommended IRR:

PLANT ACCOUNT INPUT:

Fiscal Year ending June 30

Account	Year	BOY Balance	Addition	Total Retirement	Terminal Retirement	Interim Retirement	EOY Balance	Average Balance	Retirement Ratio Annual	Cumulative	5-Yr Avg.
342.00	2015	64,166,301	0	0		0	64,166,301	64,166,301	0.0000	0.0000	0.0000
342.00	2014	64,166,301	0	0		0	64,166,301	64,166,301	0.0000	0.0000	0.0000
342.00	2013	64,166,301	0	0		0	64,166,301	64,166,301	0.0000	0.0000	0.0000
342.00	2012	64,166,301	0	0		0	64,166,301	64,166,301	0.0000	0.0000	0.0000
342.00	2011	64,166,301	0	0		0	64,166,301	64,166,301	0.0000	0.0000	0.0000
342.00	2010	64,166,301	0	0		0	64,166,301	64,166,301	0.0000	0.0000	0.0000
342.00	2009	64,146,857	19,445	0		0	64,166,301	64,156,579	0.0000	0.0000	0.0000
342.00	2008	64,146,857	0	0		0	64,146,857	64,146,857	0.0000	0.0000	0.0000
342.00	2007	64,146,857	0	0		0	64,146,857	64,146,857	0.0000	0.0000	0.0000
342.00	2006	64,146,857	0	0		0	64,146,857	64,146,857	0.0000	0.0000	0.0000
342.00	2005	64,146,857	0	0		0	64,146,857	64,146,857	0.0000	0.0000	0.0000
342.00	2004	64,146,857	0	0		0	64,146,857	64,146,857	0.0000	0.0000	0.0000
342.00	2003	65,036,881	0	(890,024)		(890,024)	64,146,857	64,591,869	0.0138	0.0011	0.0028
342.00	2002	65,036,881	0	0		0	65,036,881	65,036,881	0.0000	0.0010	0.0028
342.00	2001	65,036,881	0	0		0	65,036,881	65,036,881	0.0000	0.0009	0.0028
342.00	2000	65,036,881	0	0		0	65,036,881	65,036,881	0.0000	0.0009	0.0027
342.00	1999	65,036,881	0	0		0	65,036,881	65,036,881	0.0000	0.0008	0.0027
342.00	1998	65,036,881	0	0		0	65,036,881	65,036,881	0.0000	0.0008	0.0000
342.00	1997	65,037,236	(355)	0		0	65,036,881	65,037,059	0.0000	0.0007	0.0000
342.00	1996	65,039,012	(1,776)	0		0	65,037,236	65,038,124	0.0000	0.0007	0.0000
342.00	1995	65,033,252	5,760	0		0	65,039,012	65,036,132	0.0000	0.0007	0.0000
342.00	1994	56,489,077	8,580,067	(35,892)		(35,892)	65,033,252	60,761,165	0.0006	0.0007	0.0001
342.00	1993	890,024	55,645,012	(45,960)		(45,960)	56,489,077	28,689,551	0.0016	0.0007	0.0003
342.00	1992	890,024	0	0		0	890,024	890,024	0.0000	0.0007	0.0004
342.00	1991	890,024	0	0		0	890,024	890,024	0.0000	0.0007	0.0005
342.00	1990	890,024	0	0		0	890,024	890,024	0.0000	0.0007	0.0009
342.00	1989	890,024	0	0		0	890,024	890,024	0.0000	0.0007	0.0014
342.00	1988	890,024	0	0		0	890,024	890,024	0.0000	0.0007	0.0000
342.00	1987	890,024	0	0		0	890,024	890,024	0.0000	0.0007	0.0000
342.00	1986	890,024	0	0		0	890,024	890,024	0.0000	0.0007	0.0000
342.00	1985	890,024	0	0		0	890,024	890,024	0.0000	0.0007	0.0000
342.00	1984	890,024	0	0		0	890,024	890,024	0.0000	0.0007	0.0000
342.00	1983	890,024	0	0		0	890,024	890,024	0.0000	0.0007	0.0000
342.00	1982	890,024	0	0		0	890,024	890,024	0.0000	0.0007	0.0000
342.00	1981	890,024	0	0		0	890,024	890,024	0.0000	0.0007	0.0000
342.00	1980	890,288	(264)	0		0	890,024	890,156	0.0000	0.0007	0.0000
342.00	1979	890,156	132	0		0	890,288	890,222	0.0000	0.0007	0.0000
342.00	1978	890,164	(7)	0		0	890,156	890,160	0.0000	0.0007	0.0000
342.00	1977	890,177	(14)	0		0	890,164	890,170	0.0000	0.0007	0.0000
342.00	1976	889,431	747	0		0	890,177	889,804	0.0000	0.0007	0.0000

Los Angeles Department of Water and Power
Depreciation Study
Plant in Service as of June 30, 2015

Interim Retirement Rate Analysis

Plant Classification: Other Production Plant
Account Number: 343.00
Plant Account: Prime Movers
End of Year Study Balance: $162,558,731
Recommended IRR:

PLANT ACCOUNT INPUT:

Fiscal Year ending June 30

Account	Year	BOY Balance	Addition	Total Retirement	Terminal Retirement	Interim Retirement	EOY Balance	Average Balance	Retirement Ratio Annual	Retirement Ratio Cumulative	Retirement Ratio 5-Yr Avg.
343.00	2015	162,555,723	3,009	0		0	162,558,731	162,557,227	0.0000	0.0000	0.0000
343.00	2014	162,555,618	105	0		0	162,555,723	162,555,670	0.0000	0.0000	0.0000
343.00	2013	163,382,619	(827,001)	0		0	162,555,618	162,969,118	0.0000	0.0000	0.0000
343.00	2012	161,838,069	1,544,550	0		0	163,382,619	162,610,344	0.0000	0.0000	0.0000
343.00	2011	161,414,542	423,527	0		0	161,838,069	161,626,305	0.0000	0.0000	0.0000
343.00	2010	0	161,414,542	0		0	161,414,542	80,707,271	0.0000	0.0000	0.0000
343.00	2009	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	2008	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	2007	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	2006	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	2005	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	2004	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	2003	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	2002	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	2001	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	2000	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1999	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1998	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1997	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1996	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1995	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1994	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1993	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1992	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1991	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1990	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1989	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1988	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1987	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1986	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1985	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1984	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1983	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1982	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1981	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1980	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1979	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1978	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1977	0	0	0		0	0	0	0.0000	0.0000	0.0000
343.00	1976	0	0	0		0	0	0	0.0000	0.0000	0.0000

Los Angeles Department of Water and Power
Depreciation Study
Plant in Service as of June 30, 2015

Interim Retirement Rate Analysis

Plant Classification: Other Production Plant
Account Number: 344.00
Plant Account: Generators
End of Year Study Balance: $1,903,281,696
Recommended IRR:

PLANT ACCOUNT INPUT:

Fiscal Year ending June 30

Account	Year	BOY Balance	Addition	Total Retirement	Terminal Retirement	Interim Retirement	EOY Balance	Average Balance	Retirement Ratio Annual	Retirement Ratio Cumulative	Retirement Ratio 5-Yr Avg.
344.00	2015	1,880,771,494	22,510,202	0		0	1,903,281,696	1,892,026,595	0.0000	0.0000	0.0000
344.00	2014	1,851,027,769	29,743,724	0		0	1,880,771,494	1,865,899,631	0.0000	0.0000	0.0000
344.00	2013	1,057,570,629	793,457,140	0		0	1,851,027,769	1,454,299,199	0.0000	0.0000	0.0000
344.00	2012	1,044,916,130	12,654,499	0		0	1,057,570,629	1,051,243,380	0.0000	0.0000	0.0000
344.00	2011	1,041,688,540	3,227,591	0		0	1,044,916,130	1,043,302,335	0.0000	0.0000	0.0000
344.00	2010	897,977,870	143,710,670	0		0	1,041,688,540	969,833,205	0.0000	0.0000	0.0000
344.00	2009	858,038,874	39,938,996	0		0	897,977,870	878,008,372	0.0000	0.0000	0.0000
344.00	2008	857,179,029	859,845	0		0	858,038,874	857,608,951	0.0000	0.0000	0.0000
344.00	2007	853,879,896	3,299,133	0		0	857,179,029	855,529,462	0.0000	0.0000	0.0000
344.00	2006	849,659,399	4,220,496	0		0	853,879,896	851,769,647	0.0000	0.0000	0.0000
344.00	2005	716,618,727	133,057,745	(17,073)		(17,073)	849,659,399	783,139,063	0.0000	0.0000	0.0000
344.00	2004	374,967,865	341,650,862	0		0	716,618,727	545,793,296	0.0000	0.0000	0.0000
344.00	2003	373,921,214	5,655,808	(4,609,157)	(4,609,157)	0	374,967,865	374,444,540	0.0000	0.0000	0.0000
344.00	2002	139,735,792	234,309,563	(124,140)		(124,140)	373,921,214	256,828,503	0.0005	0.0000	0.0001
344.00	2001	139,735,792	0	0		0	139,735,792	139,735,792	0.0000	0.0000	0.0001
344.00	2000	139,686,732	49,060	0		0	139,735,792	139,711,262	0.0000	0.0000	0.0001
344.00	1999	139,670,752	15,980	0		0	139,686,732	139,678,742	0.0000	0.0000	0.0001
344.00	1998	144,214,699	(4,543,947)	0		0	139,670,752	141,942,725	0.0000	0.0000	0.0002
344.00	1997	144,203,590	11,109	0		0	144,214,699	144,209,144	0.0000	0.0000	0.0000
344.00	1996	144,614,615	(411,025)	0		0	144,203,590	144,409,103	0.0000	0.0000	0.0000
344.00	1995	142,347,699	2,266,916	0		0	144,614,615	143,481,157	0.0000	0.0000	0.0000
344.00	1994	66,219,485	76,218,496	(90,283)		(90,283)	142,347,699	104,283,592	0.0009	0.0000	0.0001
344.00	1993	10,546,315	55,809,056	(135,886)		(135,886)	66,219,485	38,382,900	0.0035	0.0000	0.0004
344.00	1992	9,126,436	1,419,879	0		0	10,546,315	9,836,376	0.0000	0.0000	0.0005
344.00	1991	9,088,117	38,320	0		0	9,126,436	9,107,276	0.0000	0.0000	0.0007
344.00	1990	9,088,117	0	0		0	9,088,117	9,088,117	0.0000	0.0000	0.0013
344.00	1989	9,088,117	0	0		0	9,088,117	9,088,117	0.0000	0.0000	0.0018
344.00	1988	9,088,117	0	0		0	9,088,117	9,088,117	0.0000	0.0000	0.0000
344.00	1987	9,088,117	0	0		0	9,088,117	9,088,117	0.0000	0.0000	0.0000
344.00	1986	9,088,117	0	0		0	9,088,117	9,088,117	0.0000	0.0000	0.0000
344.00	1985	9,088,117	0	0		0	9,088,117	9,088,117	0.0000	0.0000	0.0000
344.00	1984	9,088,117	0	0		0	9,088,117	9,088,117	0.0000	0.0000	0.0000
344.00	1983	9,088,117	0	0		0	9,088,117	9,088,117	0.0000	0.0000	0.0000
344.00	1982	9,088,117	0	0		0	9,088,117	9,088,117	0.0000	0.0000	0.0000
344.00	1981	9,088,117	0	0		0	9,088,117	9,088,117	0.0000	0.0000	0.0000
344.00	1980	9,087,985	132	0		0	9,088,117	9,088,051	0.0000	0.0000	0.0000
344.00	1979	9,088,117	(132)	0		0	9,087,985	9,088,051	0.0000	0.0000	0.0000
344.00	1978	9,090,155	(2,038)	0		0	9,088,117	9,089,136	0.0000	0.0000	0.0000
344.00	1977	9,089,516	638	0		0	9,090,155	9,089,836	0.0000	0.0000	0.0000
344.00	1976	9,088,804	713	0		0	9,089,516	9,089,160	0.0000	0.0000	0.0000

Los Angeles Department of Water and Power
Depreciation Study
Plant in Service as of June 30, 2015

Interim Retirement Rate Analysis

Plant Classification: Other Production Plant
Account Number: 345.00
Plant Account: Accessory Electric Equipment
End of Year Study Balance: $93,171,156
Recommended IRR:

PLANT ACCOUNT INPUT:

Fiscal Year ending June 30

Account	Year	BOY Balance	Addition	Total Retirement	Terminal Retirement	Interim Retirement	EOY Balance	Average Balance	Retirement Ratio Annual	Cumulative	5-Yr Avg.
345.00	2015	85,513,779	7,657,378	0		0	93,171,156	89,342,467	0.0000	0.0000	0.0000
345.00	2014	83,849,565	1,664,213	0		0	85,513,779	84,681,672	0.0000	0.0000	0.0000
345.00	2013	81,949,463	1,900,102	0		0	83,849,565	82,899,514	0.0000	0.0000	0.0000
345.00	2012	82,174,920	(225,457)	0		0	81,949,463	82,062,191	0.0000	0.0000	0.0000
345.00	2011	77,863,147	4,311,773	0		0	82,174,920	80,019,033	0.0000	0.0000	0.0000
345.00	2010	19,239,460	58,623,686	0		0	77,863,147	48,551,304	0.0000	0.0000	0.0000
345.00	2009	19,149,150	90,310	0		0	19,239,460	19,194,305	0.0000	0.0000	0.0000
345.00	2008	19,118,796	30,354	0		0	19,149,150	19,133,973	0.0000	0.0000	0.0000
345.00	2007	19,115,127	3,670	0		0	19,118,796	19,116,961	0.0000	0.0000	0.0000
345.00	2006	18,832,003	283,123	0		0	19,115,127	18,973,565	0.0000	0.0000	0.0000
345.00	2005	18,832,003	0	0		0	18,832,003	18,832,003	0.0000	0.0000	0.0000
345.00	2004	18,832,003	0	0		0	18,832,003	18,832,003	0.0000	0.0000	0.0000
345.00	2003	19,224,791	0	(392,788)		(392,788)	18,832,003	19,028,397	0.0206	0.0007	0.0041
345.00	2002	19,224,791	0	0		0	19,224,791	19,224,791	0.0000	0.0006	0.0041
345.00	2001	19,224,791	0	0		0	19,224,791	19,224,791	0.0000	0.0006	0.0041
345.00	2000	19,224,791	0	0		0	19,224,791	19,224,791	0.0000	0.0006	0.0041
345.00	1999	19,224,791	0	0		0	19,224,791	19,224,791	0.0000	0.0006	0.0041
345.00	1998	19,223,331	1,460	0		0	19,224,791	19,224,061	0.0000	0.0006	0.0000
345.00	1997	19,220,687	2,645	0		0	19,223,331	19,222,009	0.0000	0.0005	0.0000
345.00	1996	19,218,546	2,140	0		0	19,220,687	19,219,616	0.0000	0.0005	0.0000
345.00	1995	18,265,545	953,001	0		0	19,218,546	18,742,046	0.0000	0.0005	0.0000
345.00	1994	9,161,204	9,284,943	(180,602)		(180,602)	18,265,545	13,713,374	0.0132	0.0007	0.0020
345.00	1993	392,923	8,796,792	(28,511)		(28,511)	9,161,204	4,777,064	0.0060	0.0008	0.0028
345.00	1992	392,923	0	0		0	392,923	392,923	0.0000	0.0008	0.0037
345.00	1991	392,923	0	0		0	392,923	392,923	0.0000	0.0008	0.0055
345.00	1990	392,923	0	0		0	392,923	392,923	0.0000	0.0008	0.0106
345.00	1989	392,923	0	0		0	392,923	392,923	0.0000	0.0008	0.0045
345.00	1988	392,923	0	0		0	392,923	392,923	0.0000	0.0008	0.0000
345.00	1987	392,923	0	0		0	392,923	392,923	0.0000	0.0008	0.0000
345.00	1986	392,923	0	0		0	392,923	392,923	0.0000	0.0008	0.0000
345.00	1985	392,923	0	0		0	392,923	392,923	0.0000	0.0008	0.0000
345.00	1984	392,923	0	0		0	392,923	392,923	0.0000	0.0008	0.0000
345.00	1983	392,923	0	0		0	392,923	392,923	0.0000	0.0008	0.0000
345.00	1982	392,923	0	0		0	392,923	392,923	0.0000	0.0008	0.0000
345.00	1981	392,923	0	0		0	392,923	392,923	0.0000	0.0008	0.0000
345.00	1980	392,923	0	0		0	392,923	392,923	0.0000	0.0008	0.0000
345.00	1979	392,923	0	0		0	392,923	392,923	0.0000	0.0008	0.0000
345.00	1978	392,923	0	0		0	392,923	392,923	0.0000	0.0008	0.0000
345.00	1977	392,926	(3)	0		0	392,923	392,925	0.0000	0.0008	0.0000
345.00	1976	392,755	171	0		0	392,926	392,841	0.0000	0.0008	0.0000

Los Angeles Department of Water and Power
Depreciation Study
Plant in Service as of June 30, 2015

Interim Retirement Rate Analysis

Plant Classification: Other Production Plant
Account Number: 346.00
Plant Account: Misc Power Plant Equipment
End of Year Study Balance: $6,447,138
Recommended IRR:

PLANT ACCOUNT INPUT:

Fiscal Year ending June 30

Account	Year	BOY Balance	Addition	Total Retirement	Terminal Retirement	Interim Retirement	EOY Balance	Average Balance	Retirement Ratio Annual	Retirement Ratio Cumulative	Retirement Ratio 5-Yr Avg.
346.00	2015	5,434,053	1,013,085	0		0	6,447,138	5,940,596	0.0000	0.0000	0.0000
346.00	2014	5,434,053	0	0		0	5,434,053	5,434,053	0.0000	0.0000	0.0000
346.00	2013	5,434,053	0	0		0	5,434,053	5,434,053	0.0000	0.0000	0.0000
346.00	2012	5,434,053	0	0		0	5,434,053	5,434,053	0.0000	0.0000	0.0000
346.00	2011	5,435,460	(1,407)	0		0	5,434,053	5,434,757	0.0000	0.0000	0.0000
346.00	2010	5,435,460	0	0		0	5,435,460	5,435,460	0.0000	0.0000	0.0000
346.00	2009	5,413,496	21,964	0		0	5,435,460	5,424,478	0.0000	0.0000	0.0000
346.00	2008	5,392,424	21,072	0		0	5,413,496	5,402,960	0.0000	0.0000	0.0000
346.00	2007	5,433,827	(41,402)	0		0	5,392,424	5,413,126	0.0000	0.0000	0.0000
346.00	2006	5,328,862	104,965	0		0	5,433,827	5,381,345	0.0000	0.0000	0.0000
346.00	2005	5,296,256	32,606	0		0	5,328,862	5,312,559	0.0000	0.0000	0.0000
346.00	2004	5,217,264	78,992	0		0	5,296,256	5,256,760	0.0000	0.0000	0.0000
346.00	2003	5,203,739	13,526	0		0	5,217,264	5,210,501	0.0000	0.0000	0.0000
346.00	2002	5,137,766	65,973	0		0	5,203,739	5,170,752	0.0000	0.0000	0.0000
346.00	2001	5,106,884	30,882	0		0	5,137,766	5,122,325	0.0000	0.0000	0.0000
346.00	2000	5,087,472	19,412	0		0	5,106,884	5,097,178	0.0000	0.0000	0.0000
346.00	1999	5,063,265	25,589	(1,381)		(1,381)	5,087,472	5,075,368	0.0003	0.0000	0.0001
346.00	1998	5,063,267	(2)	0		0	5,063,265	5,063,266	0.0000	0.0000	0.0001
346.00	1997	5,063,185	82	0		0	5,063,267	5,063,226	0.0000	0.0000	0.0001
346.00	1996	5,063,182	3	0		0	5,063,185	5,063,183	0.0000	0.0000	0.0001
346.00	1995	5,018,304	44,877	0		0	5,063,182	5,040,743	0.0000	0.0000	0.0001
346.00	1994	668,778	4,349,527	0		0	5,018,304	2,843,541	0.0000	0.0000	0.0000
346.00	1993	1,381	667,396	0		0	668,778	335,079	0.0000	0.0000	0.0000
346.00	1992	1,381	0	0		0	1,381	1,381	0.0000	0.0000	0.0000
346.00	1991	1,381	0	0		0	1,381	1,381	0.0000	0.0000	0.0000
346.00	1990	1,381	0	0		0	1,381	1,381	0.0000	0.0000	0.0000
346.00	1989	1,381	0	0		0	1,381	1,381	0.0000	0.0000	0.0000
346.00	1988	1,381	0	0		0	1,381	1,381	0.0000	0.0000	0.0000
346.00	1987	1,381	0	0		0	1,381	1,381	0.0000	0.0000	0.0000
346.00	1986	1,381	0	0		0	1,381	1,381	0.0000	0.0000	0.0000
346.00	1985	1,589	0	(208)		(208)	1,381	1,485	0.1400	0.0000	0.0297
346.00	1984	1,589	0	0		0	1,589	1,589	0.0000	0.0000	0.0288
346.00	1983	1,589	0	0		0	1,589	1,589	0.0000	0.0000	0.0280
346.00	1982	1,589	0	0		0	1,589	1,589	0.0000	0.0000	0.0272
346.00	1981	1,589	0	0		0	1,589	1,589	0.0000	0.0000	0.0265
346.00	1980	1,589	0	0		0	1,589	1,589	0.0000	0.0000	0.0000
346.00	1979	1,855	0	(266)		(266)	1,589	1,722	0.1545	0.0000	0.0329
346.00	1978	1,855	0	0		0	1,855	1,855	0.0000	0.0000	0.0319
346.00	1977	1,855	0	0		0	1,855	1,855	0.0000	0.0000	0.0309
346.00	1976	1,852	4	0		0	1,855	1,853	0.0000	0.0000	0.0300

Appendix D
NET SALVAGE ANALYSIS

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Los Angeles Department of Water and Power
Net Salvage Analysis
Based on Plant in Service at June 30, 2015

Account Number
Plant Account **Steam Production Plant** **1994-2015**
Includes 311-316

Year	Retirements	EOY Gross Plant	Gross Salvage	Cost of Removal	Net Salvage	Net Salvage % Annual	Net Salvage % 5-Year	Net Salvage % Cumulative	% Ret. to EOY Plant Bal. Annual	% Ret. to EOY Plant Bal. Cumulative
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
1994	$351,824	$1,026,462,014	$254,974	$92,664	$162,310	46.13%	46.13%	-1.08%	0.03%	7.48%
1995	37,998	1,044,656,982	52,383	(20,005)	72,388	190.50%	60.21%	-1.21%	0.00%	7.46%
1996	30,936	1,057,499,532	33,819	(27,418)	61,237	197.95%	70.33%	-1.27%	0.00%	7.46%
1997	169	1,073,039,096	2,184,129	4,618	2,179,512	1290262.58%	588.09%	-1.32%	0.00%	7.46%
1998	0	1,105,767,585	(152,746)	11,552	(164,298)	0.00%	549.06%	-3.04%	0.00%	7.46%
1999	670	1,206,240,593	143,731	18,505	125,226	18680.42%	3259.23%	-2.91%	0.00%	7.46%
2000	0	1,214,850,535	16,203	179,910	(163,707)	0.00%	6413.75%	-3.01%	0.00%	7.46%
2001	0	1,229,399,949	6,949	542,132	(535,183)	0.00%	171760.24%	-2.88%	0.00%	7.46%
2002	106,262,918	1,170,303,266	11,594	278,157	(266,563)	-0.25%	-0.95%	-2.46%	9.08%	7.46%
2003	5,588,581	1,172,930,118	(319)	0	(319)	-0.01%	-0.75%	-13.82%	0.48%	1.21%
2004	41,128	1,182,298,027	(90)	1,167	(1,257)	-3.06%	-0.86%	-18.96%	0.00%	0.88%
2005	4,560,370	1,435,751,933	(1,423)	0	(1,423)	-0.03%	-0.69%	-19.01%	0.32%	0.88%
2006	1,420,852	1,453,100,232	(647)	3,985	(4,633)	-0.33%	-0.23%	-27.30%	0.10%	0.61%
2007	124,568	1,460,409,149	(1,192)	6,832	(8,024)	-6.44%	-0.13%	-31.56%	0.01%	0.53%
2008	8,884,629	1,475,605,622	(1,073)	3,377	(4,450)	-0.05%	-0.13%	-31.91%	0.60%	0.52%
2009	0	1,465,112,975	280,271	1,803,730	(1,523,460)	0.00%	-10.29%	NA	0.00%	0.00%
2010	0	1,496,650,405	(178)	690	(868)	0.00%	-14.78%	NA	0.00%	0.00%
2011	0	1,542,835,013	0	32,529	(32,529)	0.00%	-17.42%	NA	0.00%	0.00%
2012	0	1,573,133,309	(972)	(40,198)	39,226	0.00%	-17.13%	NA	0.00%	0.00%
2013	0	1,612,366,341	283	(6,002)	6,285	0.00%	NA	NA	0.00%	0.00%
2014	0	1,646,617,644	(1,834)	0	(1,834)	0.00%	NA	NA	0.00%	0.00%
2015	0	1,701,690,086	11,694	1,329,039	(1,317,345)	0.00%	NA	NA	0.00%	0.00%
	$127,304,643		**$2,835,554**	**$4,215,264**	**($1,379,709)**	**-1.08%**				

Los Angeles Department of Water and Power
Net Salvage Analysis
Based on Plant in Service at June 30, 2015

Account Number
Plant Account **Steam Production Plant** **1994-2008**
Includes 311-316

		EOY	Gross	Cost of	Net	Net Salvage %			% Ret. to EOY Plant Bal.	
Year	Retirements	Gross Plant	Salvage	Removal	Salvage	Annual	5-Year	Cumulative	Annual	Cumulative
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
1994	$351,824	$1,026,462,014	$254,974	$92,664	$162,310	46.13%	46.13%	1.14%	0.03%	8.63%
1995	37,998	1,044,656,982	52,383	(20,005)	72,388	190.50%	60.21%	1.01%	0.00%	8.60%
1996	30,936	1,057,499,532	33,819	(27,418)	61,237	197.95%	70.33%	0.96%	0.00%	8.60%
1997	169	1,073,039,096	2,184,129	4,618	2,179,512	1290262.58%	588.09%	0.91%	0.00%	8.60%
1998	0	1,105,767,585	(152,746)	11,552	(164,298)	0.00%	549.06%	-0.81%	0.00%	8.60%
1999	670	1,206,240,593	143,731	18,505	125,226	18680.42%	3259.23%	-0.68%	0.00%	8.60%
2000	0	1,214,850,535	16,203	179,910	(163,707)	0.00%	6413.75%	-0.78%	0.00%	8.60%
2001	0	1,229,399,949	6,949	542,132	(535,183)	0.00%	171760.24%	-0.65%	0.00%	8.60%
2002	106,262,918	1,170,303,266	11,594	278,157	(266,563)	-0.25%	-0.95%	-0.23%	9.08%	8.60%
2003	5,588,581	1,172,930,118	(319)	0	(319)	-0.01%	-0.75%	-0.10%	0.48%	1.40%
2004	41,128	1,182,298,027	(90)	1,167	(1,257)	-3.06%	-0.86%	-0.13%	0.00%	1.02%
2005	4,560,370	1,435,751,933	(1,423)	0	(1,423)	-0.03%	-0.69%	-0.12%	0.32%	1.02%
2006	1,420,852	1,453,100,232	(647)	3,985	(4,633)	-0.33%	-0.23%	-0.16%	0.10%	0.71%
2007	124,568	1,460,409,149	(1,192)	6,832	(8,024)	-6.44%	-0.13%	-0.14%	0.01%	0.61%
2008	8,884,629	1,475,605,622	(1,073)	3,377	(4,450)	-0.05%	-0.13%	-0.05%	0.60%	0.60%
2009										
2010										
2011										
2012										
2013										
2014										
2015										
	$127,304,643		**$2,546,291**	**$1,095,476**	**$1,450,815**	**1.14%**				

Los Angeles Department of Water and Power
Net Salvage Analysis
Based on Plant in Service at June 30, 2015

Account Number
Plant Account **Nuclear Production Plant**
Includes 321-325

Year	Retirements	EOY Gross Plant	Gross Salvage	Cost of Removal	Net Salvage	Net Salvage % Annual	Net Salvage % 5-Year	Net Salvage % Cumulative	% Ret. to EOY Plant Bal. Annual	% Ret. to EOY Plant Bal. Cumulative
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
1994	$2,626,738	$462,691,348	$19,761	$38,811	($19,050)	-0.73%	-0.73%	-12.17%	0.57%	8.66%
1995	743,417	463,874,033	(4,884)	30,132	(35,016)	-4.71%	-1.60%	-12.79%	0.16%	8.21%
1996	782,860	466,019,194	5,135	309,287	(304,152)	-38.85%	-8.63%	-12.92%	0.17%	8.09%
1997	0	467,770,908	0	40,291	(40,291)	0.00%	-9.60%	-12.48%	0.00%	7.96%
1998	598,109	469,408,798	0	27,100	(27,100)	-4.53%	-8.96%	-12.40%	0.13%	7.96%
1999	3,667,966	467,134,459	9,690	101,742	(92,052)	-2.51%	-8.61%	-12.50%	0.79%	7.85%
2000	4,517,490	465,395,248	0	(57,791)	57,791	1.28%	-4.24%	-13.36%	0.97%	7.23%
2001	498,772	466,298,688	0	(7,867)	7,867	1.58%	-1.01%	-15.09%	0.11%	6.47%
2002	1,090,493	466,867,692	(344)	432,031	(432,375)	-39.65%	-4.68%	-15.31%	0.23%	6.38%
2003	211,837	469,015,716	18,092	3,306	14,786	6.98%	-4.45%	-14.58%	0.05%	6.20%
2004	6,250,735	483,796,524	237	944,549	(944,312)	-15.11%	-10.31%	-14.71%	1.29%	6.16%
2005	749,775	484,282,628	(3,204)	101,260	(104,464)	-13.93%	-16.57%	-14.62%	0.15%	5.11%
2006	5,755,405	501,209,510	657	1,100,819	(1,100,162)	-19.12%	-18.26%	-14.64%	1.15%	4.98%
2007	847,815	507,334,596	137,458	95,140	42,318	4.99%	-15.14%	-13.55%	0.17%	4.01%
2008	6,105,191	522,607,779	38,026	1,499,797	(1,461,771)	-23.94%	-18.11%	-14.24%	1.17%	3.86%
2009	2,018,933	520,519,905	0	247,754	(247,754)	-12.27%	-18.56%	-10.70%	0.39%	2.83%
2010	3,223,478	537,932,636	4,943	504,665	(499,722)	-15.50%	-18.20%	-10.49%	0.60%	2.49%
2011	2,381,844	549,247,854	1,101	440,024	(438,923)	-18.43%	-17.88%	-9.08%	0.43%	1.94%
2012	2,047,154	557,475,638	87,800	290,674	(202,874)	-9.91%	-18.07%	-6.63%	0.37%	1.54%
2013	2,382,629	571,118,621	220,906	456,847	(235,941)	-9.90%	-13.48%	-5.68%	0.42%	1.19%
2014	3,400,513	579,270,438	586,913	644,963	(58,050)	-1.71%	-10.68%	-3.52%	0.59%	0.79%
2015	1,270,406	591,029,097	267,167	373,625	(106,458)	-8.38%	-9.08%	-8.38%	0.21%	0.21%
	$51,171,560		**$1,389,454**	**$7,617,159**	**($6,227,705)**	**-12.17%**				

Los Angeles Department of Water and Power
Net Salvage Analysis
Based on Plant in Service at June 30, 2015

Account Number
Plant Account **Hydraulic Production Plant**
Includes 331-337

Year	Retirements	EOY Gross Plant	Gross Salvage	Cost of Removal	Net Salvage	Net Salvage % Annual	Net Salvage % 5-Year	Net Salvage % Cumulative	% Ret. to EOY Plant Bal. Annual	% Ret. to EOY Plant Bal. Cumulative
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
1994	$696	$477,493,010	$35	($1,082)	$1,117	160.41%	160.41%	0.26%	0.00%	4.00%
1995	4,333	481,191,574	100	(20,276)	20,376	470.23%	427.34%	0.25%	0.00%	4.00%
1996	3,479	485,584,267	0	(34,446)	34,446	990.00%	657.41%	0.19%	0.00%	4.00%
1997	323	487,354,219	0	(23)	23	6.98%	633.65%	0.07%	0.00%	4.00%
1998	0	488,754,728	0	0	0	0.00%	633.65%	0.07%	0.00%	4.00%
1999	50,057	489,177,987	0	0	0	0.00%	94.25%	0.07%	0.01%	4.00%
2000	0	489,525,549	0	0	0	0.00%	64.00%	0.07%	0.00%	3.99%
2001	0	489,879,525	0	0	0	0.00%	0.04%	0.07%	0.00%	3.99%
2002	11,227,679	478,961,023	0	27,938	(27,938)	-0.25%	-0.25%	0.07%	2.34%	3.99%
2003	0	480,280,463	0	40,779	(40,779)	0.00%	-0.61%	0.26%	0.00%	2.52%
2004	0	480,818,068	0	0	0	0.00%	-0.61%	0.47%	0.00%	2.52%
2005	1,152,876	490,061,303	0	0	0	0.00%	-0.56%	0.47%	0.24%	2.52%
2006	500,800	504,016,433	0	0	0	0.00%	-0.53%	0.50%	0.10%	2.37%
2007	0	524,550,808	0	0	0	0.00%	-2.47%	0.52%	0.00%	2.31%
2008	14,737,858	516,674,421	0	0	0	0.00%	0.00%	0.52%	2.85%	2.31%
2009	0	537,401,517	0	0	0	0.00%	0.00%	3.13%	0.00%	0.38%
2010	2,905,758	568,026,141	0	0	0	0.00%	0.00%	3.13%	0.51%	0.38%
2011	0	588,865,083	0	0	0	0.00%	0.00%	NA	0.00%	0.00%
2012	0	609,067,354	91,004	0	91,004	0.00%	0.52%	NA	0.00%	0.00%
2013	0	613,067,582	0	0	0	0.00%	3.13%	NA	0.00%	0.00%
2014	0	687,810,636	0	0	0	0.00%	3.13%	NA	0.00%	0.00%
2015	0	764,551,143	0	0	0	0.00%	NA	NA	0.00%	0.00%
	$30,583,859		**$91,139**	**$12,891**	**$78,248**	**0.26%**				

Los Angeles Department of Water and Power
Net Salvage Analysis
Based on Plant in Service at June 30, 2015

Account Number
Plant Account **Other Production Plant** **1994-2015**
Includes 341-346

Year	Retirements	EOY Gross Plant	Gross Salvage	Cost of Removal	Net Salvage	Net Salvage %			% Ret. to EOY Plant Bal.	
						Annual	5-Year	Cumulative	Annual	Cumulative
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
1994	$344,559	$262,510,553	$0	$0	$0	0.00%	0.00%	-2.09%	0.13%	0.45%
1995	0	266,000,549	0	0	0	0.00%	0.00%	-2.16%	0.00%	0.44%
1996	0	265,589,965	0	0	0	0.00%	0.00%	-2.16%	0.00%	0.44%
1997	4,544,000	261,059,878	0	0	0	0.00%	0.00%	-2.16%	1.74%	0.44%
1998	0	261,060,427	0	0	0	0.00%	0.00%	-3.79%	0.00%	0.25%
1999	1,381	261,100,615	0	0	0	0.00%	0.00%	-3.79%	0.00%	0.25%
2000	0	261,169,087	0	0	0	0.00%	0.00%	-3.79%	0.00%	0.25%
2001	0	261,602,193	0	0	0	0.00%	0.00%	-3.79%	0.00%	0.25%
2002	124,140	495,451,364	16	148,191	(148,175)	-119.36%	-118.05%	-3.79%	0.03%	0.25%
2003	5,891,969	497,346,254	0	30,542	(30,542)	-0.52%	-2.97%	-1.36%	1.18%	0.24%
2004	0	836,958,582	0	20,475	(20,475)	0.00%	-3.31%	-292.66%	0.00%	0.00%
2005	17,073	970,044,513	0	1,348	(1,348)	-7.90%	-3.32%	-172.73%	0.00%	0.00%
2006	0	980,152,945	0	0	0	0.00%	-3.32%	NA	0.00%	0.00%
2007	0	983,414,345	0	0	0	0.00%	-0.89%	NA	0.00%	0.00%
2008	0	996,615,425	0	0	0	0.00%	-127.82%	NA	0.00%	0.00%
2009	0	1,410,143,590	0	0	0	0.00%	-7.90%	NA	0.00%	0.00%
2010	0	1,499,572,580	0	0	0	0.00%	NA	NA	0.00%	0.00%
2011	0	1,506,500,018	0	27,121	(27,121)	0.00%	NA	NA	0.00%	0.00%
2012	0	1,570,188,846	0	367	(367)	0.00%	NA	NA	0.00%	0.00%
2013	0	2,348,798,944	0	655	(655)	0.00%	NA	NA	0.00%	0.00%
2014	0	2,384,937,660	0	0	0	0.00%	NA	NA	0.00%	0.00%
2015	0	2,420,407,546	0	0	0	0.00%	NA	NA	0.00%	0.00%
	$10,923,122		**$16**	**$228,699**	**($228,683)**	**-2.09%**				

Los Angeles Department of Water and Power
Net Salvage Analysis
Based on Plant in Service at June 30, 2015

Account Number
Plant Account **Other Production Plant** **1994-2005**
Includes 341-346

Year	Retirements	EOY Gross Plant	Gross Salvage	Cost of Removal	Net Salvage	Net Salvage % Annual	Net Salvage % 5-Year	Net Salvage % Cumulative	% Ret. to EOY Plant Bal. Annual	% Ret. to EOY Plant Bal. Cumulative
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
1994	$344,559	$262,510,553	$0	$0	$0	0.00%	0.00%	-1.84%	0.13%	1.13%
1995	0	266,000,549	0	0	0	0.00%	0.00%	-1.90%	0.00%	1.09%
1996	0	265,589,965	0	0	0	0.00%	0.00%	-1.90%	0.00%	1.09%
1997	4,544,000	261,059,878	0	0	0	0.00%	0.00%	-1.90%	1.74%	1.09%
1998	0	261,060,427	0	0	0	0.00%	0.00%	-3.32%	0.00%	0.62%
1999	1,381	261,100,615	0	0	0	0.00%	0.00%	-3.32%	0.00%	0.62%
2000	0	261,169,087	0	0	0	0.00%	0.00%	-3.32%	0.00%	0.62%
2001	0	261,602,193	0	0	0	0.00%	0.00%	-3.32%	0.00%	0.62%
2002	124,140	495,451,364	16	148,191	(148,175)	-119.36%	-118.05%	-3.32%	0.03%	0.62%
2003	5,891,969	497,346,254	0	30,542	(30,542)	-0.52%	-2.97%	-0.89%	1.18%	0.61%
2004	0	836,958,582	0	20,475	(20,475)	0.00%	-3.31%	-127.82%	0.00%	0.00%
2005	17,073	970,044,513	0	1,348	(1,348)	-7.90%	-3.32%	-7.90%	0.00%	0.00%
2006										
2007										
2008										
2009										
2010										
2011										
2012										
2013										
2014										
2015										
	$10,923,122		**$16**	**$200,556**	**($200,540)**	**-1.84%**				

Los Angeles Department of Water and Power
Net Salvage Analysis
Based on Plant in Service at June 30, 2015

Account Number
Plant Account **Transmission Plant**
Includes 352-359

Year	Retirements	EOY Gross Plant	Gross Salvage	Cost of Removal	Net Salvage	Net Salvage %			% Ret. to EOY Plant Bal.	
						Annual	5-Year	Cumulative	Annual	Cumulative
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
1994	$5,318,975	$740,131,538	$684,291	$687,058	($2,768)	-0.05%	-0.05%	-6.02%	0.72%	10.50%
1995	22,958	740,823,401	(3,741)	384,917	(388,658)	-1692.93%	-7.33%	-6.30%	0.00%	10.03%
1996	376,172	758,172,417	314,733	582,862	(268,129)	-71.28%	-11.53%	-5.96%	0.05%	10.03%
1997	257,785	760,255,032	(242,152)	777,544	(1,019,696)	-395.56%	-28.10%	-5.74%	0.03%	10.00%
1998	116,047	768,884,322	287,086	739,561	(452,475)	-389.91%	-34.99%	-4.85%	0.02%	9.97%
1999	401,737	771,802,314	0	235,653	(235,653)	-58.66%	-201.30%	-4.46%	0.05%	9.96%
2000	8,858,094	786,932,963	20,585	127,728	(107,143)	-1.21%	-20.81%	-4.26%	1.13%	9.93%
2001	456,166	792,265,917	0	685,695	(685,695)	-150.32%	-24.78%	-4.52%	0.06%	9.14%
2002	1,317,287	808,039,960	0	784,344	(784,344)	-59.54%	-20.32%	-3.88%	0.16%	9.10%
2003	1,552,596	828,714,249	6,297	1,287,117	(1,280,820)	-82.50%	-24.58%	-3.16%	0.19%	8.99%
2004	88,131	854,921,215	0	160,119	(160,119)	-181.68%	-24.59%	-1.93%	0.01%	8.85%
2005	10,015	868,256,048	0	54,547	(54,547)	-544.65%	-86.61%	-1.77%	0.00%	8.84%
2006	183,589	906,814,032	0	17,486	(17,486)	-9.52%	-72.89%	-1.72%	0.02%	8.84%
2007	0	962,006,222	0	96	(96)	0.00%	-82.49%	-1.71%	0.00%	8.83%
2008	97,451,467	877,147,645	0	6,663	(6,663)	-0.01%	-0.24%	-1.71%	11.11%	8.83%
2009	2,204,933	952,071,094	(373,290)	1,347,653	(1,720,943)	-78.05%	-1.80%	-66.05%	0.23%	0.23%
2010	50,041	999,214,064	25,941	18,551	7,390	14.77%	-1.74%	5.91%	0.01%	0.03%
2011	9,864	1,020,421,242	7,000	267	6,733	68.26%	-1.72%	4.51%	0.00%	0.03%
2012	35,086	1,044,942,436	0	36,544	(36,544)	-104.16%	-1.75%	2.47%	0.00%	0.03%
2013	0	1,087,586,272	0	579	(579)	0.00%	-75.83%	16.20%	0.00%	0.02%
2014	155,999	1,093,382,476	65,670	20,228	45,442	29.13%	8.94%	16.41%	0.01%	0.02%
2015	116,547	1,133,213,701	4,664	5,383	(719)	-0.62%	4.51%	-0.62%	0.01%	0.01%
	$118,983,489		**$797,084**	**$7,960,595**	**($7,163,511)**	**-6.02%**				

Los Angeles Department of Water and Power
Net Salvage Analysis
Based on Plant in Service at June 30, 2015

Account Number
Plant Account **Distribution Plant, Power** **1994-2015**
Includes 361-373

Year	Retirements	EOY Gross Plant	Gross Salvage	Cost of Removal	Net Salvage	Net Salvage % Annual	Net Salvage % 5-Year	Net Salvage % Cumulative	% Ret. to EOY Plant Bal. Annual	% Ret. to EOY Plant Bal. Cumulative
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
1994	$53,591,027	$2,794,201,930	$1,251,301	$13,280,214	($12,028,913)	-22.45%	-22.45%	-93.72%	1.92%	3.24%
1995	24,534,236	2,893,653,785	562,767	10,201,079	(9,638,312)	-39.29%	-27.73%	-114.25%	0.85%	2.52%
1996	20,825,332	3,023,533,083	1,419,312	9,567,407	(8,148,095)	-39.13%	-30.13%	-125.64%	0.69%	2.19%
1997	23,742,627	3,111,690,449	1,813,269	13,866,679	(12,053,410)	-50.77%	-34.12%	-138.45%	0.76%	1.90%
1998	16,730,417	3,217,563,433	1,340,761	6,369,661	(5,028,900)	-30.06%	-33.64%	-156.24%	0.52%	1.58%
1999	15,885,687	3,312,650,734	949,843	5,587,621	(4,637,777)	-29.19%	-38.84%	-177.31%	0.48%	1.36%
2000	12,440,008	3,444,522,936	597,821	7,170,396	(6,572,575)	-52.83%	-40.66%	-205.20%	0.36%	1.14%
2001	46,813,659	3,524,693,406	344,966	4,777,628	(4,432,662)	-9.47%	-28.31%	-231.56%	1.33%	0.97%
2002	5,713,956	3,688,257,649	218,525	9,503,921	(9,285,397)	-162.50%	-30.70%	-645.88%	0.15%	0.34%
2003	3,384,748	3,870,259,974	308,836	9,680,674	(9,371,837)	-276.88%	-40.72%	-788.40%	0.09%	0.26%
2004	5,106,109	3,967,152,990	516,997	11,078,487	(10,561,490)	-206.84%	-54.76%	-896.65%	0.13%	0.22%
2005	1,294,080	4,094,799,243	228,085	8,066,279	(7,838,194)	-605.70%	-66.58%	-1220.12%	0.03%	0.15%
2006	1,383,741	4,272,792,617	69,545	9,240,504	(9,170,958)	-662.77%	-273.82%	-1302.99%	0.03%	0.13%
2007	997,582	4,430,224,034	1,804	11,168,354	(11,166,549)	-1119.36%	-395.43%	-1410.89%	0.02%	0.11%
2008	1,586,584	4,743,626,009	113,414	12,039,532	(11,926,117)	-751.69%	-488.65%	-1451.21%	0.03%	0.10%
2009	2,222,296	5,129,753,603	302,254	18,371,433	(18,069,179)	-813.09%	-777.24%	-1648.45%	0.04%	0.08%
2010	2,729,689	5,668,370,204	9,076	21,163,181	(21,154,105)	-774.96%	-801.43%	-2193.74%	0.05%	0.05%
2011	(133,961)	6,022,959,656	30,736	20,063,151	(20,032,415)	14953.97%	-1112.49%	-7932.96%	0.00%	0.01%
2012	239,603	6,313,062,645	11,588	19,859,970	(19,848,382)	-8283.86%	-1370.07%	-4142.03%	0.00%	0.01%
2013	95,831	6,620,908,589	15,144	8,489,785	(8,474,641)	-8843.34%	-1699.42%	-2398.40%	0.00%	0.01%
2014	219,380	7,000,409,065	80,528	2,552,131	(2,471,603)	-1126.63%	-2284.72%	-1093.53%	0.00%	0.01%
2015	253,943	7,390,991,983	382,144	3,086,475	(2,704,331)	-1064.94%	-7932.96%	-1064.94%	0.00%	0.00%
	$239,656,577		**$10,568,716**	**$235,184,559**	**($224,615,843)**	**-93.72%**				

Los Angeles Department of Water and Power
Net Salvage Analysis
Based on Plant in Service at June 30, 2015

Account Number
Plant Account **Distribution Plant, Power** **1994-2001**
Includes 361-373

Year	Retirements	EOY Gross Plant	Gross Salvage	Cost of Removal	Net Salvage	Net Salvage % Annual	Net Salvage % 5-Year	Net Salvage % Cumulative	% Ret. to EOY Plant Bal. Annual	% Ret. to EOY Plant Bal. Cumulative
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
1994	$53,591,027	$2,794,201,930	$1,251,301	$13,280,214	($12,028,913)	-22.45%	-22.45%	-29.15%	1.92%	6.09%
1995	24,534,236	2,893,653,785	562,767	10,201,079	(9,638,312)	-39.29%	-27.73%	-31.38%	0.85%	4.57%
1996	20,825,332	3,023,533,083	1,419,312	9,567,407	(8,148,095)	-39.13%	-30.13%	-29.96%	0.69%	3.87%
1997	23,742,627	3,111,690,449	1,813,269	13,866,679	(12,053,410)	-50.77%	-34.12%	-28.31%	0.76%	3.28%
1998	16,730,417	3,217,563,433	1,340,761	6,369,661	(5,028,900)	-30.06%	-33.64%	-22.50%	0.52%	2.61%
1999	15,885,687	3,312,650,734	949,843	5,587,621	(4,637,777)	-29.19%	-38.84%	-20.82%	0.48%	2.13%
2000	12,440,008	3,444,522,936	597,821	7,170,396	(6,572,575)	-52.83%	-40.66%	-18.57%	0.36%	1.68%
2001	46,813,659	3,524,693,406	344,966	4,777,628	(4,432,662)	-9.47%	-28.31%	-9.47%	1.33%	1.33%
2002										
2003										
2004										
2005										
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2009										
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2011										
2012										
2013										
2014										
2015										
	$214,562,993		**$8,280,040**	**$70,820,683**	**($62,540,643)**	**-29.15%**				

Los Angeles Department of Water and Power
Net Salvage Analysis
Based on Plant in Service at June 30, 2015

Account Number
Plant Account **General Plant, Power**
Includes 390-398

Year	Retirements	EOY Gross Plant	Gross Salvage	Cost of Removal	Net Salvage	Net Salvage % Annual	Net Salvage % 5-Year	Net Salvage % Cumulative	% Ret. to EOY Plant Bal. Annual	% Ret. to EOY Plant Bal. Cumulative
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
1994	$8,691,211	$709,246,936	$1,271,408	$164,975	$1,106,432	12.73%	12.73%	6.12%	1.23%	17.74%
1995	17,201,392	730,828,461	1,988,666	22,436	1,966,229	11.43%	11.87%	5.89%	2.35%	17.16%
1996	14,229,811	744,202,808	1,624,590	22,429	1,602,161	11.26%	11.65%	5.50%	1.91%	16.01%
1997	7,879,004	776,408,033	916,982	(62,406)	979,388	12.43%	11.78%	5.13%	1.01%	15.06%
1998	9,629,114	789,890,887	622,614	23,043	599,571	6.23%	10.85%	4.87%	1.22%	14.53%
1999	22,001,156	790,447,332	762,389	407	761,982	3.46%	8.33%	4.81%	2.78%	13.89%
2000	2,735,855	817,832,372	288,165	2,705	285,460	10.43%	7.49%	4.97%	0.33%	12.42%
2001	4,397,368	847,012,715	383,397	999	382,398	8.70%	6.45%	4.88%	0.52%	12.24%
2002	8,450,234	870,102,098	436,261	7,521	428,740	5.07%	5.21%	4.79%	0.97%	11.95%
2003	13,989,951	918,602,895	876,793	0	876,793	6.27%	5.30%	4.78%	1.52%	11.38%
2004	15,019,996	951,048,538	1,281,495	3,659	1,277,836	8.51%	7.29%	4.64%	1.58%	10.45%
2005	10,244,464	987,548,861	1,140,416	349	1,140,067	11.13%	7.88%	4.23%	1.04%	9.45%
2006	72,584,961	946,838,313	1,156,510	0	1,156,510	1.59%	4.06%	3.69%	7.67%	8.76%
2007	63,435	977,186,080	6,331	131	6,200	9.77%	3.98%	6.29%	0.01%	3.92%
2008	2,822,942	1,026,679,913	1,985	0	1,985	0.07%	3.56%	6.29%	0.27%	3.91%
2009	290,702	1,103,285,215	3,946	384	3,562	1.23%	2.68%	6.60%	0.03%	3.72%
2010	9,583,584	1,182,075,792	401,832	0	401,832	4.19%	1.84%	6.63%	0.81%	3.70%
2011	10,032,226	1,255,746,844	558,617	846	557,771	5.56%	4.26%	7.14%	0.80%	3.06%
2012	10,153,934	1,302,995,910	648,555	426,337	222,217	2.19%	3.61%	7.58%	0.78%	2.39%
2013	16,365,085	1,351,283,572	1,613,000	149,574	1,463,425	8.94%	5.71%	9.71%	1.21%	1.72%
2014	5,674,354	1,410,997,397	726,895	55,727	671,168	11.83%	6.40%	11.06%	0.40%	0.62%
2015	3,683,085	1,498,071,338	433,480	69,467	364,013	9.88%	7.14%	9.88%	0.25%	0.25%
	$265,723,865		**$17,144,326**	**$888,586**	**$16,255,740**	**6.12%**				