

LON W. HOUSE, Ph.D.
Water and Energy Consulting

2795 East Bidwell St., Suite 100-176
Folsom, CA 95630
Phone: 530.676-8956

10645 N. Oracle Road,
Suite 121-216
Oro Valley, AZ, 95735
Phone: 520.297-2643

Mobile: 530.409-9702

<http://www.waterandenergyconsulting.com>
e-mail: lonwhouse@waterandenergyconsulting.com

SUMMARY

Dr. House has a Bachelors, two Masters, and a Ph.D. in Engineering and Economics from U.C. Davis. He is a Certified Energy Manager (CEM) and a Certified Sustainable Development Professional (CSDP) with the Association of Energy Engineers. He taught engineering in Graduate School at U.C. Davis for a number of years, is the founder of Hydropower group for the U.C. Davis Energy Institute and is the hydro renewable energy consultant for the Energy Trust of Oregon. He worked for the California Energy Commission for five years as a utility planner, and he was the chief utility planner for the California Public Utilities Commission for five years. In 1990, he went out into the consulting business, starting his own business (Water and Energy Consulting). He is the California Rural Water Association (CRWA) energy specialist, representing over 1,100 rural water and wastewater systems and is the energy and efficiency trainer for the National Rural Water Association and the Rural Water Association of Arizona and was the Association of California Water Agencies (ACWA) energy consultant for 25 years. Dr. House has over 30 years' experience before the California Public Utilities Commission, over 35 years before the California Energy Commission, and has testified numerous times at the California Power Authority, California Independent System Operator, California State Legislature, State Water Resources Control Board, the Federal Energy Regulatory Commission, and the U.S. Senate, as well as in numerous court cases. Dr. House also works for the California Public Utilities Commission as an expert witness on transmission issues and is their water-energy expert, and for the California Energy Commission as a researcher. He is an investment management expert consultant in the water, energy and environmental areas for: Gerson Lehman Group-GLG Scholar Program, eWork Markets, Price Waterhouse-Vantage Marketplace, Roundtable Group, Standard & Poor's-Society of Industrial Leaders, Coleman Research, Guidepoint Advisors, Expert Connect, Maven, ORC Expert Network, and DeMatteo Monness.

He has been involved in the assessing, evaluating, and recommending energy efficiency, demand response opportunities, rate design, and renewable energy projects for water agencies, electric utilities, and private parties over the last 20 years, has been involved in numerous utility regulatory cases, and has provided strategic planning for numerous private clients. Dr. House has been responsible for training and installation of over 25 small hydroelectric projects in Southeast Asia.

CERTIFICATION

Certified Energy Manager (CEM)
Certified Sustainable Development Professional (CSDP)

PROFESSIONAL AND TECHNICAL SOCIETIES

Association of Energy Engineers (AEE) - Senior Member
Sigma Xi - The National Research Honor Society
American Society of Civil Engineers - ASCE
American Water Works Association – AWWA
International Association of Energy Economists – IAEE
American Energy Society - AES

EMPLOYMENT HISTORY

1993 - Present Founder and President
Water and Energy Consulting

Dr. House provides expert witness testimony, regulatory representation, economic evaluations, policy directives, and planning functions for selected clients. Dr. House's clients include public agencies, trade organizations, regulatory agencies, electric utilities, and independent power producers. Dr. House is the California Rural Water Association (CRWA) energy consultant, representing over 1,100 rural water and wastewater systems and is the energy and efficiency trainer for the National Rural Water Association and the Rural Water Association of Arizona. He was the energy advisor to the Regional Council of Rural Counties, representing 30 rural counties in California; the energy consultant for the Association of California Water Agencies, representing 450 public water agencies responsible for 90% of the water delivered in California; and has been an energy consultant to the Attorney General of the State of California. He works for the California Public Utilities Commission as an expert witness on transmission issues and is their water-energy expert, and for the California Energy Commission as a researcher.

1990 - 1993 Principal Consultant
HES, Inc.

Dr. House was responsible for projects involving utility planning and analysis, energy regulation, economic assessments and modeling, rate design, and regulatory representation. Dr. House was also responsible for energy efficiency compliance analysis

American Electric Power - Analysis of Dynamic Operating Costs
Central and South West Services - Integrated Resource Planning
Pacific Gas and Electric - Compressed Air Energy Storage Evaluation, Wind Generation
Impacts on Utility Operation, Water System Leak Detection
San Diego Gas and Electric - Compliance with Air Pollution Emission Requirements
Pacific Gas and Electric, Southern California Edison, San Diego Gas and Electric –
Demand Response and Energy Efficiency Assessment of Water Agencies
Northern California Power Agency - Integrated DSM/Supply-side Bid; Evaluation of
DSM Programs
Cajun Electric Cooperative - Strategic Planning
Central Louisiana Electric - Operation of a Jointly Owned Generation Facility

REPRESENTATIVE REGULATORY CLIENTS

Attorney General: State of California – Energy Expert in Antitrust Cases Against
Generators
California Public Utilities Commission - Evaluation of Utility Generation Options, expert
witness on transmission, water-energy expert
California Energy Commission - researcher on water-energy

REPRESENTATIVE PRIVATE CLIENTS

Small Hydroelectric Development, Interconnection and Regulatory Representation:
Jal Hydro, Greenbug Energy, NLine Energy, Bishop-Tungsten, Calleguas MWD, Three
Valleys MWD, Yolo County WCD, El Dorado Irrigation District
National Rural Water Association - Energy and Efficiency trainer
Rural Water Association of Arizona – Energy and Efficiency trainer
California Rural Water Association – Energy Specialist, Regulatory Representation
Regional Council of Rural Counties - Energy Advisor, Regulatory Representation
Association of California Water Agencies (ACWA) - Energy Adviser, Regulatory
Representation, Advisor to the ACWA Utility Service Agency
Energy Storage Partners - Regulatory Representative, Power Marketing
Friant Power Authority - Utility Negotiations, Due Diligence
Expert Witness: Mitchell, Dedekam & Angell,
Law Offices of Daniel F. Gallery,
Bartkiewicz, Kronick & Shanahan,
Law Offices of Beatrice Snider,
Farella, Braun & Martel,
Best, Best & Krieger,
Aleshire & Wynder.

AWARDS/RECOGNITION

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PUBLICATIONS/ARTICLES

“*Energy Storage at Groundwater Banks*”, Journal American Water Works Association, August 2018, pg E17-E26.

Beuhler, Mark, Naheed Iqbal, Zachary Ahinga, and Lon W. House. *Groundwater Bank Energy Storage Systems: A Feasibility Study for Willow Springs Water Bank*, California Energy Commission. Publication Number: CEC-500-17-042. December 2017. *Tech Memo No. 1 – Economic Potential of Peak Hour Pumped Storage and Aquifer Pumped Hydro Technologies at Willow Springs Water Bank* and *Tech Memo No. 2 – Statewide Benefits of Pumped Storage at Groundwater Banks*, California Energy Commission, CEC-500-042-AP1, December 2017

“*Water System Leak Identification and Control Field Evaluation*”, Pacific Gas and Electric – Emerging Technologies Program, ET13PGE1451, Sept. 5, 2015.

“*7 Ways Smart Meters Save Water*”, Water Innovations, August/September 2015 (available from wateronline.com).

“*A New Paradigm: Electric Utilities Investing in Water Conservations*” Water Resources Impact, Volume 17, No. 2, March 2015, pg 3-6.

“*Shifting the Timing of Customer Water Consumption*”, Journal American Water Works Association, Vol. 104, No. 2, February 2012, pgs 82-92.

Time-of-Use Water Meter Impacts on Customer Water Use, California Energy Commission, CEC-500-2011-023, March 2011.

Smart Meters and California Water Agencies: Overview and Status, California Energy Commission, CEC-500-2010-008, March 2010.

“*Automatic Meter Reading (AMR)/Advancing Metering Infrastructure (AMI) Opportunities in Water*” Sigma XI Year of Water White Papers, available at: <http://www.sigmaxi.org/programs/issues/whitepapers.shtml>, October 2008.

“*Public Versus Private Customer Perspectives on Participation in Demand-side Programs*” Strategic Planning for Energy and the Environment, Volume 27, No. 3, Winter 2008, pg 59-66.

“Will Water Cause the Next Electricity Crisis?” in Water Resources Impact, Vol. 9, No. 1, January 2007. Published by American Water Resources Association.

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(With M. Henwood and D. Branchcomb), “A Strategy for Least Cost Utility Operations in Light of the Clean Air Act: Consideration of Emissions Costs in Commitment and Dispatch Decisions”, Proceedings of Power-Gen '91, December 1991.

A Utility Resource Planning Primer, California Public Utilities Commission, Division of Ratepayer Advocates, April 1989.

(With other authors), *Report to the California Legislature on the Implementation of Assembly Bill 475 (1985): Production Cost and Financial Planning Computer Models Used by California Utilities*, California Public Utilities Commission, December 1986.

Minimum Oil and Gas Generation Levels in California Utilities, California Energy Commission, P300-82-015, 1985.

“Using Production Cost Models to Predict Emissions from Utility Power Plants: A Case Study”, Air Pollution Control Association Proceedings, January 1985.

“Progress of Wind Energy Developments in California”, Alternative Energy Sources VI, Vol. 3, 1985.

Avoided Cost Payment Options: Which is Best for Windfarms?, Wind Power Digest, Summer 1984.

“Windfarm Avoided Cost”, California Energy Commission News and Comment, Fall 1983.

Reliability Impacts of Wind-Generated Electricity on California Utilities, Reliability of Power Systems, Institute of Electrical Engineers, September 1983.

“The Integration of Wind and Solar Technologies into the Electric Utility Grid: A Review of the Issues”, The Renewable Challenge, American Institute of ISES, June 1982.

(With E. Amir), *Economic Assessment of Geothermal Plant Efficiency Improvements in the PG&E System*, Proceedings of the Geothermal Resources Council Annual Meeting, October 1982.

(With E. Amir and P. Gertner), *Economic Assessments of Residential Retrofit Electricity*

Conservation Measures: Consumer and Utility Perspectives, California Energy Commission, P300-81-024, 1981.

Wind and Solar Electricity Producing Technologies Impact on Electric Utilities, California Energy Commission, P300-81-024, 1981.

(With other authors), *Environmental Assessment for Consumer Products Efficiency Standards Program*, U.S. Government Printing Office, DE/CS/20315-T1, 1980.

EXPERT TESTIMONY

U.S. Senate

“Dr. House Response to Committee Questions on Energy and Natural Resources Hearing-March 10, 2009”, March 31, 2009.

“Testimony of Lon W. House, Ph.D.” Energy and Natural Resources Committee, March 10, 2009.

“Embedded Energy in Water – Briefing for Senate and House Staffers”, The Nexus of Energy and Water Series, February 13, 2009.

Federal Energy Regulatory Commission

- P-14680, Application for a 10-MW Exemptions Hydroelectric Project, July 2016.
- P-12532, Hydroelectric License Application, February 2016.
- “Motion To Intervene And Comments Of Water And Energy Consulting On Behalf Of Black Mesa Trust And To’Nizhoni Ani” Docket No. ER04-316-000, January 14, 2004.
- "Regional Council of Rural Counties (RCRC) Comments on the FERC Hydroelectric Licensing Notice of Proposed Rulemaking RM02-16-000" Docket No. RM02-16-000, April 2003.
- "Association of California Water Agencies (ACWA) Comments on the FERC Hydroelectric Licensing Notice of Proposed Rulemaking RM02-16-000" Docket No. RM02-16-000, April 2003.
- "ACWA Comments on Standard Market Design" Docket Project No. RM01-12-000, November 2002.

- "Motion to Intervene and Comments of the Regional Council of Rural Counties" Docket Project No. 77 et al., January 2002.
- "Association of California Water Agencies (ACWA) Comments on Market Order Proposing Remedies for California Wholesale Electric System" Docket No. EL00-95-000, November 21, 2000.
- "Regional Council of Rural Counties (RCRC) Comments on Market Order Proposing Remedies for California Wholesale Electric System" Docket No. EL00-95-000, November 21, 2000.
- "The Association of California Water Agencies (ACWA) Motion to Intervene and Comments", Palm Springs Request for Wheeling, Docket No. TX96-7-000, March 27, 1996.
- "The Association of California Water Agencies (ACWA) Reply to PG&E Supplemental Comments", Stranded Cost NOPR, Docket No. RM94-7-001, February 27, 1996.
- "The Association of California Water Agencies (ACWA) Comments in RM 95-16-000", Hydro Relicensing NOPR, Docket No. RM95-16-000, January 5, 1996.
- "The Association of California Water Agencies (ACWA) Reply Comments in RM 95-8-000", Transmission NOPR, Docket No. RM 95-8-000, October 4, 1995.
- "The Association of California Water Agencies (ACWA) Comments in RM 95-8-000", Transmission NOPR, Docket No. RM 95-8-000, August 7, 1995.
- "Response to Proposed Rulemaking on Charges and Fees for Hydroelectric Projects", Docket No. RM 93-7-000, April 4, 1994.

State Water Resources Control Board

- "Testimony of Dr. Lon W. House"- Reconsideration of D.1644, Yuba River Water Rights Decision, June 5, 2003.
- "Impact of Bay-Delta Water Quality Standards on California's Electric Utility Costs", Water Quality Control Plan for the Bay-Delta Estuary, October 19, 1994.
- "Capacity, Production Cost, and Emissions Impact of Proposed Department of Fish and Game Temperature and Stream Flow Requirements on the Lower Yuba River" Lower Yuba River Hearing, February 10-13, 1992, filed January 21, 1992.

United States District Court For Northern California

- *People of California vs. Reliant Energy, et al.*, Expert Report of Lon W. House, Ph.D. - "Environmental Regulations on California Merchant Power Plants: 2000-2001", case C-02-1788-VRW, April 2004.

State Board of Equalization

- "PG&E Petition for Reassessment of Unitary Value", Regional Council of Rural Counties, September 15, 2000.

San Joaquin Valley United Air Pollution Control District

- "APCD Rule 47 Comments", September 23, 2010.
- "Internal Combustion Engine BACT Permitting", September 8, 1998.

Superior Court of the State of California: County of Sacramento

- *California Sportfishing Protection Alliance v. State Water Resources Control Board, et. al.*, "Declaration of Lon W. House in Opposition to Petitioner's Motion for Preliminary Injunction - Electricity Cost and Residual Emission Impacts of California Sportfisheries Protection Alliance Proposed Flows for the Lower Yuba River: December 1991 to October 1992", December 20, 1992.

Superior Court of the State of California: County of Humboldt

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California Public Utilities Commission

- A.17-06-030, "Motion of Southern California Edison Company and Renewable Energy Water Districts for Adoption of Renewable Energy Self-Generation Bill Credit Transfer Indifference Mechanism Amended Settlement Agreement", September 2018.

- A.17-05-004, “Testimony of Lon W. House, Ph.D.”, September 2017.
- A.12-04-019, “Testimony of Lon W. House”, September 2017.
- A.16-09-003, “Opening Testimony of Renewable Energy Water Districts”, April 2017.
- A.15-04-012, “Testimony of Lon W. House, Ph.D.”, July 2016.
- “Protest to SCE Advice Letters 3417-E 2913-E”, June 2016.
- A.14-06-014, “Testimony of Association of California Water Agencies (ACWA)”, March 2015.
- “Protest to Advice Letters 2913-E (SCE U 338-E), 4239-E (PG&E U 39-E), and 2489-E (U902-E)”, June 2013.
- A.11-10-002, “Rebuttal Testimony of Lon W. House, Ph.D.”, July 2012.
- A.11-10-002, “Testimony of Lon W. House, Ph.D.”, June 2012.
- R.09-11-014, “Comments on Utility Energy Efficiency Portfolios”, December 2011.
- R.10-05-004, “Self-Generation Incentive Payments Warranty Provisions”, November 2011.
- R.10-05-004, “Comments on Revised Staff Proposal”, May 2011.
- R.10-05-004, “Comments on Staff Proposal: Pressure Reducing In-Conduit Hydroelectric Generation”, November 2010.
- R.10-05-004, “Comments on the ACR”, July 2010.
- A.08-11-005, “Opening Brief of PACE (Protect Agricultural Communities Environment)”, March 2010.
- A.08-03-008, “Reply Comments of ACWA – Including In-Conduit Hydro in SGIP”, January 2010.
- A.08-11-005, “Opening Testimony of PACE (Protect Agricultural Communities Environment)”, July 2009.
- A.06-08-010, “Report On the Sunrise Powerlink”, Phase 1 Rebuttal, June 2007.

- A.06-08-010, "Report On the Sunrise Powerlink", Phase 1 Testimony, Volume 5 of 5, May 2007.
- A.05-06-006, et al., "Response to Utilities Joint Motion", November 2006.
- A.05-06-006, et al., "Proposals in Response to Commissioner Peevey's ACRs on Demand Response", September 2006.
- A.05-04-015/I,05-06-041, "Tipping Point Analysis and Attribute Assessment of DPV2", December 2005.
- A.05-06-006, et al., "Petition to Intervene and Rebuttal Testimony of the Association of California Water Agencies", October 2005.
- R.02-05-046, "Final Oral Arguments", December 2004.
- R.02-06-001. "Association of California Water Agencies (ACWA) Comments on Utility Filings Concerning Working Group 2 Programs and Related Issues", November 2004.
- R.02-05-046, "WEC Comments on Proposed Decision", November 2004.
- R.02-05-046, "Opening Brief", August 2004.
- R.02-05-046, "WEC Brief on TURN Confidential Exhibit (Exhibit #28C)", July 2004.
- R.02-05-046, "WEC Rebuttal Testimony in Response to March 9, 2004 ALJ Ruling", June 2004.
- R.02-05-046, "Water and Energy Consulting Concurrent Rebuttal", May 2004.
- R.02-05-046, "The Value and Impact of Mohave and The Solar Option - WEC Supplemental Testimony in Response to March 9, 2004 ALJ Ruling", May 2004.
- R.02-05-046, "WEC Prehearing Conference Statement", February 2004.
- R.03-09-029, "Opening Comments of the Association of California Water Agencies", November 2003.
- R.02-05-046, "WEC Reply Supplemental Testimony", October 2003
- I.02-04-026, "Joint Reply Brief Regarding Land Conservation Commitment and Environmental Stipulation", October 2003.
- R.02-05-046, "WEC Supplemental Testimony", October 2003.
- I.02-04-026, "The Association of California Water Agencies (ACWA) Rebuttal Comments", September 2003.
- I.02-04-026, "The Association of California Water Agencies (ACWA) Opening Comments on the Proposed Settlement", August 2003.

- I.02-04-026, “Joint Testimony of Lon House and Steve Rotherth – Recommended Clarifications of the Land Conservation Commitment”, Opening Comments of the Regional Council of Rural Counties, the Association of California Water Agencies, the California Hydropower Reform Coalition, and Environmental Defense, August 2003.
- I.02-04-026, “The Regional Council of Rural Counties (RCRC) Opening Comments”, August 2003.
- A.02-05-046, “WEC Filing of Significant Additional Information”, August 2003.
- A.02-05-046, “Water & Energy Consulting Briefing Testimony on Water Issues”, July 2003.
- R.01-05-047, “The Regional Council of Rural Counties Supplemental Reply Brief on ALJ Terkeurst Ruling Setting Aside Submission and Requiring Additional Testimony”, May 2003.
- A.02-05-046, “Water & Energy Consulting Concurrent Rebuttal Testimony”, May 2003.
- R.02-06-001, “The Association of California Water Agencies Comments on Proposed Decision of Administrative Law Judge (ALJ) Carew”, April 2003.
- A.02-05-046, “Water & Energy Consulting, Hopi, and Dine' Testimony”, March 2003.
- R.02-06-001, “The Association of California Water Agencies Motion to Intervene and Comments on Working Group 2 Reports”, December 2002.
- R.02-05-004, “Petition to Intervene of the Association of California Water Agencies (ACWA)”, November 2002.
- R.02-05-046, “Petition to Intervene of Water and Energy Consulting for Local Hopi Sinom and Dineh People”, November 2002, and “Notice of Intent to Claim Intervenor Compensation of Water and Energy Consulting”, November 2002.
- R.01-05-047, “The Regional Council of Rural Counties Reply Brief on Well Pumping Baseline Allowances”, November 2002.
- R.01-05-047, “The Regional Council of Rural Counties Opening Brief on Well Pumping Baseline Allowances”, October 2002.
- I.02-04-026, “The Regional Council of Rural Counties Reply Comments”, May 2002.
- R.01-05-047, “The Regional Council of Rural Counties Testimony on Well Pumping Baseline Allowances”, May 2002.
- R.01-05-047, “The Regional Council of Rural Counties Legal Brief on Threshold Issues – Can the Commission Include Other Variables in Baseline Determination”, February 2002.

- A.98-07-003, "Association of California Water Agencies Comments on the Motion of Southern California Edison Company (U 338-E) To Immediately Implement Historic Procurement Charge And Related Testimony", January 2002.
- R.02-01-011, "Association of California Water Agencies Comments on the Draft Decision of ALJ Barnett Suspending Direct Access", January 2002.
- A98-07-003, A.98-07-006, A.98-07-026, "Response of the Association of California Water Agencies Utility Service Authority to Assigned Commissioner's Ruling That Direct Access Contracts And Agreements Be Submitted", December 2001.
- "Protest of Pacific Gas & Electric Company Advice Letter 2167-E and SDG&E Advice Letter 1369-E, Filed October 12, 2001", October 2001.
- A98-07-003, A.98-07-006, A.98-07-026, "Motion of The Association of California Water Agencies To Suspend Commission Consideration of Draft Decision Ending Direct Access In Light Of New Information", September 2001.
- A98-07-003, A.98-07-006, A.98-07-026, "Comments Of Laguna Irrigation District and ACWA-USA on Assigned Commissioner's Ruling Regarding Comments on Certain Direct Access Issues", September 2001.
- R.01-05-047, "The Regional Council of Rural Counties (RCRC) Testimony on Baseline Allowances", August 2001.
- A.00-11-038, "Comments of the Association of California Water Agencies on the Draft Agreement Between the Commission and the California Department of Water Resources" July 2001.
- A.98-07-003, "Association of California Water Agencies Comments on the Proposed Decisions of ALJ Barnett and Commissioner Bilas", June 2001.
- R.00-01-005/R.00-11-038, "Regional Council of Rural Counties (RCRC) Motion to Intervene", June 2001.
- R.00-10-002, "Regional Council of Rural Counties (RCRC) Motion to Intervene and Testimony on Energy Division's Report on Interruptible Programs and Rotating Outages", February 2001.
- "RCRC Protest of Pacific Gas & Electric Company Advice Letter 2072-E, filed January 9, 2001 (Emergency Load Reduction Contingency Plan)", January 2001.
- "RCRC Protest of Pacific Gas & Electric Company Advice Letter 2053-E, Net Metering", November 2000.
- "ACWA Protest of Southern California Edison Advice Letter 1457-E ", June 2000.

- A.99-09-053, "Protest of the Association of California Water Agencies on the Application of Pacific Gas & Electric Company to Auction Hydroelectric Assets", October 1999.
- R.94-04-031/I.94-04-032, "Reply Comments of the Association of California Water Agencies on the Motion of the Independent Energy Producers et al. for an Order Approving PX based Pricing Pursuant to the One-time Election of Qualifying Facilities", September 1999.
- R.94-04-031/I.94-04-032, "Comments of the Association of California Water Agencies in Support of Motion of the Independent Energy Producers et al. for an Order Approving PX based Pricing Pursuant to the One-time Election of Qualifying Facilities", July 1999.
- A.98-05-022/A.98-05-014, "Testimony of the Association of California Water Agencies on Market Valuation of Retained Assets", March 1999.
- A.98-06-018, "Association of California Water Agencies Letter to Commissioner Duque", February 1999.
- A.98-05-022/A.98-05-014, "Prehearing Comments of the Association of California Water Agencies", January 1999.
- A.98-05-022/A.98-05-014, "Request of the Association of California Water Agencies for the Establishment of an Order Instituting Investigation/Rulemaking Regarding the Disposal of Utility Hydroelectric Assets and Associated Lands in the Deregulated California Electricity Market", December 1998.
- A.98-05-022, "Motion of the Association of California Water Agencies for Leave to File Late Comments on Pacific Gas and Electric Company's Proposed Scoping Memo and Ruling of Assigned Commissioner", November 1998.
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- A.93-12-025/I.94-04-002, "ACWA Testimony on Proposed Edison Rate Schedule TOU-PA-3", Southern California Edison General Rate Case, June 1995.
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- A.82-04-044, (et al), "Testimony of the Public Staff Division on Utility Resource Plans", Consolidated Proceedings for the Revision of Long and Short-Run Standard Offers, April 1987.
- A.86-07-041, "Analysis of 1987 Residential Conservation Financing Program of Southern California Edison Company", Edison General Rate Case, November 1986.
- A.85-12-050, "Long Run Marginal Cost", Pacific Gas and Electric Company 1987 General Rate Case, April 1986.
- A.82-04-044 "Prepared Testimony of the Public Staff Division", Phase II of the Proceeding to Develop a Long Run Standard Offer for Cogenerators and Small Power Producers, January 1986.
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This resume is a true and accurate document:

A handwritten signature in black ink, appearing to read "Lon W. House", written on a light-colored surface.