
EDUCATION:

Ph.D., Economics, University of Missouri-Columbia, 1966.
M.A., Economics, University of Missouri-Columbia, 1961.
B.S., Business Administration, University of Missouri-Columbia, 1959.

PROFESSIONAL AWARDS / HONORS:

Certificate of Merit; Dean's Honor Roll; Alpha Pi Zeta; Omicron Delta Epsilon; Beta Gamma Sigma; Meritorious Service Award, Federal Power Commission; Who's Who in The Midwest.

EXPERIENCE RECORD:

1998-Present Professor Emeritus, University of Oklahoma and
Vice President, C. H. Guernsey & Company, Oklahoma City and Tallahassee.

1981-1998 Professor of Economics, University of Oklahoma; Director Division of Economics
1986-89 and Economist, C. H. Guernsey & Company, Oklahoma City, Oklahoma.

1978-1981 Vice President and Corporate Economist, Stone & Webster Management
Consultants, Inc., Washington, D.C.

1974-1978 Director, Center for Economics and Management, and Professor of Economics,
College of Business Administration, University of Oklahoma.

1972-1974 Associate Dean of Faculties and Associate Professor of Economics, University of
Missouri-St. Louis.

1971-1972 Chief, Economic Studies Division, Office of Economics, Federal Power
Commission, Washington, D.C.

1967-1971 Director of Research, and Associate Professor of Economics, University of
Missouri-St. Louis.

1964-1967 Assistant Professor of Economics, University of Missouri-St. Louis, and Research
Center-School of Business and Public Administration, University of
Missouri-Columbia.

SELECTED ACTIVITIES

Planning/Advisory Committee, Rate and Regulatory Symposium, 1988-2000.
Board of Directors, Natural Resources Education Foundation, Inc., 1986-88.
Academic Advisory Committee, American Gas Association, 1985-88.
Energy Committee, U.S. Chamber of Commerce, 1983-1985.
Planning Committee, Problems of Regulated Industries Symposium, 1980-1984.
Chairman, Special Committee on Utility Rate Structures, Governor's Energy Advisory Council, 1977-1978.

SELECTED PUBLICATIONS AND PROFESSIONAL PAPERS

"An Empirical Analysis of Market Power in the U. S. Natural Gas Market," 24th USAEE/IAEE North American Conference, July, 2004, with Zhen Zhu.

"EnronOnline and Informational Efficiency in the U. S. Natural Gas Market," *The Energy Journal*, Vol. 25, No. 2. with Zhen Zhu.

"The Potential Impact of The 'Standardized Market Design' on Oklahoma's Electric Power Infrastructure." *State Policy & Economic Development in Oklahoma: 2003*, 2003, pp 81-87.

"EnronOnline and Efficiency In the U. S. Natural Gas Market." Presented at the Meeting of the International Association of Energy Economists, October 7-8, 2002. With Zhen Zhu.

"Cascading Caution: California Crisis Delays Deregulation." *Public Utilities Fortnightly*, September 1, 2001. With Jeremy D. Oller, J.D.

"Electric Energy Deregulation Experiences and Some Lessons for Oklahoma," in *State Policy & Economic Development in Oklahoma, 2001*, pp. 81-94.

"The Economic Impact of Open Access and Unbundling in the Gas Distribution Sector." Presented: The Oklahoma Gas Association Annual Conference, September 30, 1997.

"A Definition of The Gross Domestic Product-Electrification Interrelationship." *The Journal of Energy and Development*, Vol. 19, No.2 1996, by the International Research Center for Energy and Economic Development. with Gehaung D. Nan, Ph.D.

"Gas and Electric Deregulation and Economic Development Effects in Oklahoma." *State Policy & Economic Development in Oklahoma*. pp. 61-69. 1996.

"Emerging Issues in Public Service Property Taxation in Oklahoma." *Oklahoma 2000, Inc.*, with Alexander Holmes, Kent Olson and Larkin Warner. 1995.

"Market Forces, LDC Deregulation and The Efficiency/Equity Tradeoff." Presented: The Oklahoma Corporation Commission Symposium on Restructuring the Oklahoma Energy Utility Industry, Oklahoma City, OK, October 17, 1995.

"Rural Electric Power Requirements Forecasts: Detecting and Correcting for Weaknesses and Bias." *Management Quarterly*. With G. David Nan, Ph.D. and Bryan Harrington. Fall 1993.

"Utility Allowed Returns and Market Extremes." *Public Utilities Fortnightly*, March 1, 1993. with Gehuang D. Nan and Bryan M. Harrington.

"What Production Buyers Are Seeking In The U.S." *Oil & Gas Journal*, Jan 25, 1993. with D. Lynn Taggart and Victor Burk.

"Energy Demand with the Flexible Double-Logarithmic Form." *The Energy Journal*, Vol. 13, No. 4, 1992. with Gehuang D. Nan.

"The Energy Consumption and Employment Relationship: A Clarification," *The Journal of Energy and Economic Development*, Vol. 16, No. 1, 1992. with Gehuang D. Nan.

"An R&D Policy for Regulated Natural Gas and Electric Utilities," *Public Utilities Fortnightly*, Vol. 127, No. 4, Feb 15, 1991. with Barnet Groten and Jack Chambliss.

"A Strategy for Negotiating End-Use Gas Contracts," Engineering & Operations Workshop, American Public Power Association, February 27, 1991.

"Energy Demand in the Northeastern U.S.," *Energy Development in the 1990's: Challenges Facing Global/Pacific Markets*, ed. by F. Fesharaki and J. P. Dorian, Honolulu, HI, 1991, with Gehuang D. Nan.

"Energy Demand and Electricity Sales Surtaxes: California Case," Western Economics Association, Seattle, WA, 1991. (Coauthor).

"The Market for Oil and Gas Assets Defined in Survey," *The Oil and Gas Journal*, Nov. 18, 1991, pp. 62-66, (Coauthor).

"Energy Demand: A Utility Approach with Alternative Functional Forms," North American Conference, International Association of Energy Economists, Chicago, IL, Nov. 1991. In *Energy Disruptions; Lessons, Opportunities, and Prospects*. (With Gehuang D. Nan).

"FERC Pipeline Deregulation: Short-Term Objectives and Long-Term Costs," Rate Symposium, Institute for the Study of Regulation, 1987 (Proceedings).

EXPERT TESTIMONY

U. S. District Court-Western District of Louisiana Lake Charles Division, U. S. District Court-Western District of Oklahoma, District Court Fourth Judicial District of Texas, Oklahoma State District Court-Ellis County, U. S. Senate Select Committee on Small Business, Federal Power Commission, Federal Energy Regulatory Commission, Interstate Commerce Commission, Alabama Public Service Commission, Alaska Public Utilities Commission, Arkansas Public Service Commission, Colorado Public Utilities Commission, Florida Public Service Commission, Georgia Public Service Commission, Illinois Commerce Commission, Iowa Utilities Board, Kansas Corporation Commission, Kentucky Public Service Commission, Louisiana Public Service Commission, Maryland Public Service Commission, Mississippi Public Service Commission, Missouri Public Service Commission, Nebraska Public Service Commission, New Mexico Public Service Commission, New York Public Utilities Commission, Power Authority of the State of New York, Nevada Public Service Commission, Nebraska Public Service Commission, North Carolina Utilities Commission, Oklahoma Corporation Commission, South Carolina Public Service Commission, Tennessee Public Service Commission, Texas Public Utilities Commission, the Texas Railroad Commission, Virginia Corporation Commission, and the Public Service Commission of Wyoming.

Name of Company	Regulatory Jurisdiction	Testimony	Date Filed	ROE Recommended	ROE Authorized
Intermountain Rural Electric Association	Public Utilities Comm. Of Colorado	Direct	1977		
Oklahoma Natural Gas, Public Service of Oklahoma, Oklahoma Gas and Electric Company, and Southwestern Public Service Company	Oklahoma Corporation Comm.	Direct	1980		
Department of Defense		Direct	1981		
El Paso Electric Company	Federal Energy Regulatory Comm.	Direct	1981		
Lower Colorado River Authority and Texland Electric Cooperative	Public Utilities Comm. Of Texas	Direct	1982		
Texas Power and Light Company	Public Utilities Comm. Of Texas	Direct	1982		
Guadalupe Valley Electric Cooperative, Inc.	Federal Energy Regulatory Comm.	Direct	1982		
Guadalupe Valley Electric Cooperative, Inc.	Federal Energy Regulatory Comm.	Rebuttal	1982		
Department of Defense	Alabama Public Service Comm.	Direct	Jul-82		
State of Ohio	Power Authority of New York	Direct	Aug-82		
State of Ohio	Power Authority of New York	Rebuttal	Sep-82		
State of Ohio	Power Authority of New York	Supplemental	Oct-82		
West Texas Utilities Company	Federal Energy Regulatory Comm.	Direct	Dec-82		
Cooperative Wholesale Customers	Public Utilities Comm. Of Texas	Direct	1982		
Rio Grande Valley Gas Company	Railroad Comm. Of Texas	Direct	1983		
Commercial Customer Group	Public Service Comm. Of Nevada	Direct	Oct-83		
Sierra Pacific Power Company	Public Service Comm. Of Nevada	Direct	Apr-83		
Arkansas Valley Electric Cooperative Corporation, Ozarks Electric Cooperative Corporation, and Rich Mountain Electric Cooperative, Inc.	Arkansas Public Service Comm.	Direct	Feb-84		
Mid-Tex G & T Electric Cooperative, Inc.	Federal Energy Regulatory Comm.	Direct	May-84		
Rio Grande Valley Gas Company	Railroad Comm. Of Texas	Direct	Oct-84		
Kansas Power & Light Company	Kansas Corporation Comm.	Direct	1984		
Texas Electric Service Company and Texas Power and Light Company	Texas Utilities Electric Company	Direct	1984		
Industrial Consumer Group	Oklahoma Corporation Comm.	Direct	Jul-85		
Sierra Pacific Power Company	Public Service Comm. Of Nevada	Direct	Aug-85		
Department of Defense	Georgia Public Service Comm.	Direct	Nov-85		
Southwestern Public Service Company	Federal Energy Regulatory Comm.	Rebuttal	Dec-85		
Public Works Comm. City of Fayetteville	North Carolina Utilities Comm.	Direct	Dec-86		
United Cities Gas Company	Georgia Public Service Comm.	Direct	Jul-86		
United Cities Gas Company	South Carolina Public Service Comm.	Direct	Jul-86		
Department of Defense	Maryland Public Service Comm.	Direct	Jul-86		
United Cities Gas Company	Tennessee Public Service Comm.	Direct	Jul-86		
United Cities Gas Company	Illinois Commerce Comm.	Direct	Dec-86		
United Cities Gas Company	Virginia Corporation Comm.	Direct	Jun-87		
El Paso Electric Company	Federal Energy Regulatory Comm.	Direct	Jul-87		

Name of Company	Regulatory Jurisdiction	Testimony	Date Filed	ROE Recommended	ROE Authorized
Department of Defense	Georgia Public Service Comm.	Direct	Aug-87		
Virginia Natural Gas, Inc.	Virginia Corporation Comm.	Direct	Apr-88		
United Cities Gas Company	South Carolina Public Service Comm.	Direct	Jun-88		
Virginia Natural Gas, Inc.	Virginia Corporation Comm.	Rebuttal	Sep-88		
United Cities Gas Company	Georgia Public Service Comm.	Direct	1988		
Matanuska Electric Association, Inc. and Homer Electric Association, Inc.	Alaska Public Utilities Comm.	Direct	Mar-89		
United Cities Gas Company	Tennessee Public Service Comm.	Direct	May-89		
Piedmont Natural Gas Company	Tennessee Public Service Comm.	Direct	May-89		
United Cities Gas Company	Virginia Corporation Comm.	Direct	Jun-89		
United Cities Gas Company	Virginia Corporation Comm.	Rebuttal	Nov-89		
United Cities Gas Company	Illinois Commerce Comm.	Direct	1990		
United Cities Gas Company	Illinois Commerce Comm.	Rebuttal	May-90		
City Gas Company of Florida	Florida Public Service Comm.	Direct	Apr-90		
Cap Rock Electric Cooperative, Inc. and Hayburn County Electric Cooperative, Inc.	Texas Public Utility Comm.	Direct	Apr-90		
Appeal of Rio Grande Valley Gas Company from the actions of the cities of Alamo, Alton, ...	Railroad Comm. Of Texas	Direct	Apr-90		
Piedmont Natural Gas Company	North Carolina Utilities Comm.	Direct	Dec-90		
Piedmont Natural Gas Company	North Carolina Utilities Comm.	Rebuttal	Apr-91		
Piedmont Natural Gas Company	Tennessee Public Service Comm.	Direct	Mar-91		
Piedmont Natural Gas Company	Tennessee Public Service Comm.	Rebuttal	1991		
United Cities Gas Company	Missouri Public Service Comm.	Direct	Mar-91		
United Cities Gas Company	Missouri Public Service Comm.	Rebuttal	1991		
United Cities Gas Company	Kansas Corporation Comm.	Direct	May-91		
Piedmont Natural Gas Company	South Carolina Public Service Comm.	Direct	1991		
Southwest Texas Telephone Company	Texas Public Utility Comm.	Direct	1991		
Empire District Electric Company	Kansas Corporation Comm.	Rebuttal	Sep-91		
United Cities Gas Company	Georgia Public Service Comm.	Direct	Apr-92		
United Cities Gas Company	Kansas Corporation Comm.	Direct	May-92		
United Cities Gas Company	Kansas Corporation Comm.	Rebuttal	Nov-92		
Missouri Pipeline Company	Missouri Public Service Comm.	Direct	Jun-92		
Empire District Electric Company	Okahoma Corporation Comm.	Direct	Sep-92		
Empire District Electric Company	Okahoma Corporation Comm.	Rebuttal	1992		
United Cities Gas Company	Missouri Public Service Comm.	Direct	Oct-92		
Missouri Public Service Division of Utilicorp United, Inc.	Missouri Public Service Comm.	Rebuttal	Feb-93		
St. Joseph Light and Power Company	Missouri Public Service Comm.	Rebuttal	Mar-93		
Golden Spread Electric Cooperative	Federal Energy Regulatory Comm.	Rebuttal	May-93		
Golden Spread Electric Cooperative	Federal Energy Regulatory Comm.	Rebuttal	May-93		
Southwestern Public Service Company	Federal Energy Regulatory Comm.	Rebuttal	Jun-93		

Southwestern Public Service Company	Federal Energy Regulatory Comm.	Supplemental	Oct-93		
Name of Company	Regulatory Jurisdiction	Testimony	Date Filed	ROE Recommended	ROE Authorized
Greeley Gas Company	Kansas Corporation Comm.	Direct	Jun-93		
Greeley Gas Company	Public Utilities Comm. Of Colorado	Direct	Jul-93		
Piedmont Natural Gas Company	North Carolina Utilities Comm.	Direct	Aug-93		
United Cities Gas Company	Virginia Corporation Comm.	Rebuttal	Jan-94		
Empire District Electric Company	Kansas Corporation Comm.	Direct	Mar-94		
Piedmont Natural Gas Company	North Carolina Utilities Comm.	Direct	Mar-94		
Empire District Electric Company	Oklahoma Corporation Comm.	Direct	Apr-94		
Nashville Gas Company	Tennessee Public Service Comm.	Direct	Apr-94		
Empire District Electric Company	Missouri Public Service Comm.	Rebuttal	Jun-94		
United Cities Gas Company	South Carolina Public Service Comm.	Direct	Jul-94		
United Cities Gas Company	Kansas Corporation Comm.	Direct	Jan-95		
United Cities Gas Company	Missouri Public Service Comm.	Direct	Jan-95		
United Cities Gas Company	Virginia Corporation Comm.	Direct	Apr-95		
Empire District Electric Company	Missouri Public Service Comm.	Direct	May-95		
United Cities Gas Company	Tennessee Public Service Comm.	Direct	May-95		
Piedmont Natural Gas Company	South Carolina Public Service Comm.	Direct	Sep-95		
Piedmont Natural Gas Company	South Carolina Public Service Comm.	Rebuttal	Oct-95		
United Cities Gas Company	Tennessee Public Service Comm.	Rebuttal	Oct-95		
United Cities Gas Company	Iowa Dept. of Commerce Utility Div.	Direct	Nov-95		
Golden Spread Electric Cooperative	Texas Public Utility Comm.	Direct	Dec-95		
Laclede Gas Company	Missouri Public Service Comm.	Direct	Feb-96		
Golden Spread Electric Cooperative	State Office of Administrative Hearings	Rebuttal	1996		
Piedmont Natural Gas Company	North Carolina Utilities Comm.	Direct	May-96		
United Cities Gas Company	Georgia Public Service Comm.	Direct	May-96		
Piedmont Natural Gas Company	Tennessee Public Service Comm.	Direct	May-96		
Golden Spread Electric Cooperative	State Office of Administrative Hearings	Answer	May-96		
United Cities Gas Company	Virginia Corporation Comm.	Rebuttal	Aug-96		
Empire District Electric Company	Missouri Public Service Comm.	Direct	Oct-96		
Piedmont Natural Gas Company	North Carolina Utilities Comm.	Rebuttal	Oct-96		
Oklahoma Gas and Electric Company	Oklahoma Corporation Comm.	Direct	Oct-96		
United Cities Gas Company	Illinois Commerce Comm.	Rebuttal	Oct-96		
Piedmont Natural Gas Company	Tennessee Public Service Comm.	Rebuttal	Nov-96		
United Cities Gas Company	Illinois Commerce Comm.	Direct	Nov-96		
Atmos Energy Corporation	Illinois Commerce Comm.	Surrebuttal	Jan-97		
Western Resources, Inc., ONEOK Inc., and WAI, Inc.	Kansas Corporation Comm.	Direct	Mar-97		
United Cities Gas Company	Illinois Commerce Comm.	Rebuttal	Apr-97		
Greeley Gas Company	Public Utilities Comm. Of Colorado	Direct	Oct-97		
Empire District Electric Company	Arkansas Public Service Comm.	Direct	Feb-98		
ONG Transmission Company	Oklahoma Corporation Comm.	Direct	Oct-98		
The Powder River Energy Corporation	Wyoming Public Service Comm.	Direct	Nov-98		

Name of Company	Regulatory Jurisdiction	Testimony	Date Filed	ROE Recommended	ROE Authorized
Oklahoma Natural Gas, ONEOK Gas Transportation Company, and Kansas Gas Service Company	Oklahoma Corporation Comm.	Rebuttal	Jun-98		
ONG Transmission Company	Oklahoma Corporation Comm.	Rebuttal	Jan-99		
Tri-State Generation and Transmission Association, Inc.	Public Service Company of Colorado	Direct	Mar-99		
Plains Electric Generation and Transmission Cooperative, Inc.	New Mexico Public Regulation Comm.	Direct	Mar-99		
Tri-State Generation and Transmission Association, Inc.	Public Service Company of Colorado	Direct	Mar-99		
Trans Louisiana Gas Company	Louisiana Public Service Comm.	Direct	May-99		
Western Kentucky Gas Company	Kentucky Public Service Comm.	Direct	Oct-99		
Piedmont Natural Gas Company	Tennessee Public Service Comm.	Direct	Dec-99		
United Cities Gas Company	Illinois Commerce Comm.	Direct	Feb-00		
Piedmont Natural Gas Company	North Carolina Utilities Comm.	Direct	Mar-00		
Energas Company	Railroad Comm. Of Texas	Direct	Mar-00		
Citizens Communications Company	Louisiana Public Service Comm.	Direct	Jun-00		
Energas Company	Railroad Comm. Of Texas	Rebuttal	Jun-00		
United Cities Gas Company	Virginia Corporation Comm.	Direct	Jul-00		
Greeley Gas Company	Public Utilities Comm. Of Colorado	Direct	Oct-00		
Empire District Electric Company	Missouri Public Service Comm.	Direct	Nov-00		
Empire District Electric Company	Missouri Public Service Comm.	Rebuttal	May-01		
Empire District Electric Company	Missouri Public Service Comm.	Surrebuttal	May-01		
Empire District Electric Company	Kansas State Corporation Comm.	Direct	Dec-01		
Empire District Electric Company	Missouri Public Service Comm.	Direct	Mar-02		
Piedmont Natural Gas Company	North Carolina Utilities Comm.	Direct	Mar-02		
Piedmont Natural Gas Company	South Carolina Public Service Comm.	Direct	Aug-02		
Piedmont Natural Gas Company	South Carolina Public Service Comm.	Rebuttal	Aug-02		
Empire District Electric Company	Missouri Public Service Comm.	Rebuttal	Sep-02		
Empire District Electric Company	Missouri Public Service Comm.	Surrebuttal	Oct-02		
Atmos Energy Corporation	Louisiana Public Service Comm.	Direct	Nov-02		
Cardinal Pipeline Company, LLC	North Carolina Utilities Comm.	Direct	Jan-03		
Empire District Electric Company	Oklahoma Corporation Comm.	Direct	Mar-03		
North Carolina Natural Gas Corporation	North Carolina Utilities Comm.	Direct	Mar-03		
Nashville Gas Company	Tennessee Public Service Comm.	Direct	Apr-03		
Atmos Energy Corporation	Kansas Corporation Comm.	Direct	May-03		
Empire District Electric Company	Oklahoma Corporation Comm.	Rebuttal	Jul-03		
Aquila, Inc.	Nebraska Public Service Comm.	Direct	Jul-03		
Aquila, Inc.	Missouri Public Service Comm.	Direct	Jul-03		
Aquila, Inc.	Missouri Public Service Comm.	Direct	Jul-03		

Aquila, Inc.	Missouri Public Service Comm.	Direct	Aug-03		
Name of Company	Regulatory Jurisdiction	Testimony	Date Filed	ROE Recommended	ROE Authorized
Nashville Gas Company	Tennessee Public Service Comm.	Rebuttal	Sep-03		
Oklahoma Gas and Electric Company	Oklahoma Corporation Comm.	Direct	Oct-03		
Aquila, Inc.	Nebraska Public Service Comm.	Rebuttal	Nov-03		
Texas Gas Service Company	Railroad Comm. Of Texas	Direct	Nov-03		
Atmos Energy Corporation	Kansas Corporation Comm.	Rebuttal	Nov-03		
Aquila, Inc.	Missouri Public Service Comm.	Rebuttal	Jan-04		
Aquila, Inc.	Missouri Public Service Comm.	Surrebuttal	Feb-04		
Atmos Energy Corporation	Virginia State Corporation Comm.	Direct	Feb-04		
Aquila, Inc.	Missouri Public Service Comm.	Rebuttal	Feb-04		
Aquila, Inc.	Missouri Public Service Comm.	Surrebuttal	Mar-04		
Texas Gas Service Company	Railroad Comm. Of Texas	Rebuttal	Apr-04		
Empire District Electric Company	Missouri Public Service Comm.	Direct	Apr-04		
Aquila, Inc.	Kansas Corporation Comm.	Direct	Jun-04		
Empire District Electric Company	Arkansas Public Service Comm.	Direct	Jul-04		
Aquila, Inc.	Kansas Corporation Comm.	Direct	Nov-04		
Empire District Electric Company	Missouri Public Service Comm.	Rebuttal	Nov-04		
Aquila, Inc.	Kansas Corporation Comm.	Rebuttal	Nov-04		
Piedmont Natural Gas Company, Inc.	North Carolina Utilities Comm.	Direct	Apr-05		
Aquila, Inc.	Kansas Corporation Comm.	Rebuttal	Apr-05		
Empire District Electric Company	Kansas Corporation Comm.	Direct	Apr-05		
Atmos Energy Corporation	Georgia Public Service Comm.	Direct	May-05		
Oklahoma Gas and Electric Company	Oklahoma Corporation Comm.	Direct	May-05		
Empire District Electric Company	Kansas Corporation Comm.	Rebuttal	Sep-05		
Atmos Energy Corporation	Tennessee Public Service Comm.	Responsive	Oct-05		
Atmos Energy Corporation	Georgia Public Service Comm.	Rebuttal	Oct-05		
Public Service Company of North Carolina, Inc.	North Carolina Utilities Comm.	Direct	Apr-06		
Atmos Energy Corporation	Missouri Public Service Comm.	Direct	Apr-06		

Name of Company	Regulatory Jurisdiction	Testimony	Date Filed	ROE Recommended	ROE Authorized
Massachusetts Municipal Wholesale Electric Company	Federal Energy Regulatory Comm.	Direct	1981		
El Paso Electric Company	Federal Energy Regulatory Comm.	Direct			
West Texas Utilities Company	Federal Energy Regulatory Comm.	Direct			
Mid-Tex G & T Electric Cooperative, Inc.	Federal Energy Regulatory Comm.	Direct			
Mid-Tex G & T Electric Cooperative, Inc.	Federal Energy Regulatory Comm.	Direct	May-84		
Southwestern Public Service Company	Federal Energy Regulatory Comm.	Direct	Jan-85		
Southwestern Public Service Company	Federal Energy Regulatory Comm.	Rebuttal	Jan-85		
Southwestern Public Service Company	Federal Energy Regulatory Comm.	Direct			
Southwestern Public Service Company	Federal Energy Regulatory Comm.	Rebuttal			
Southern Natural Gas Company	Federal Energy Regulatory Comm.	Direct	Nov-86		
West Texas Utilities Company	Federal Energy Regulatory Comm.	Direct			
Golden Spread Electric Cooperative, Inc.	Federal Energy Regulatory Comm.	Direct	Aug-89		
City of Pasadena	Federal Energy Regulatory Comm.	Direct	Nov-89		
City of Pasadena	Federal Energy Regulatory Comm.	Cross Rebuttal	Jan-90		
Golden Spread Electric Cooperative, Inc.	Federal Energy Regulatory Comm.	Direct	May-93		
Southwestern Public Service Company	Federal Energy Regulatory Comm.	Remand Rebuttal	Jun-93		
Southwestern Public Service Company	Federal Energy Regulatory Comm.	Supplemental	Oct-93		
North Carolina Electric Membership Corporation and Brunswick Electric Membership Corporation	Federal Energy Regulatory Comm.	Direct	Aug-94		
Brazos Electric Power Cooperative, Inc.	Federal Energy Regulatory Comm.	Direct	Jan-01		
Empire District Electric Company	Federal Energy Regulatory Comm.	Direct	Mar-03		