

BEFORE THE  
WASHINGTON UTILITIES & TRANSPORTATION COMMISSION

UG-06\_\_\_\_

GENERAL RATE APPLICATION

OF



February 14, 2006

**Exhibits of**

**Dr. Roger A. Morin, Ph.D.**

- Exhibit \_\_ (RAM-2) –Resume**
- Exhibit \_\_ (RAM-3) –Gas Utilities Beta Estimates**
- Exhibit \_\_ (RAM-4) – Moody’s Gas Risk Premium Analysis**
- Exhibit \_\_ (RAM-5) – Gas-Analysts’ Growth Forecast**
- Exhibit \_\_ (RAM-6) – Gas-Value Line Growth Forecasts**
- Exhibit \_\_ (RAM-7) – Distribution Utility Companies**
- Exhibit \_\_ (RAM-8) –Electric-Value Line Growth Projections**
- Exhibit \_\_ (RAM-9) – Electric-Analysts’ Growth Projections**
- Exhibit \_\_ (RAM-10) – Gas-Common Equity Ratios**

## **RESUME OF ROGER A. MORIN**

**(Winter 2006)**

**NAME:** Roger A. Morin

**ADDRESS:** 9 King Ave.  
Jekyll Island, GA 31527, USA

**TELEPHONE:** (912) 635-3233 business office  
(912) 635-3233 business fax  
(404) 229-2857 cellular  
(404) 651-2674 office-university

**E-MAIL ADDRESS:** profmorin@msn.com

**DATE OF BIRTH:** 3/5/1945

**PRESENT EMPLOYER:** Georgia State University  
Robinson College of Business  
Atlanta, GA 30303

**RANK:** Professor of Finance

**HONORS:** Professor of Finance for Regulated Industry  
Director Center for the Study of Regulated Industry,  
College of Business, Georgia State University.

### **EDUCATIONAL HISTORY**

- Bachelor of Electrical Engineering, McGill University, Montreal, Canada, 1967.
- Master of Business Administration, McGill University, Montreal, Canada, 1969.
- PhD in Finance & Econometrics, Wharton School of Finance, University of Pennsylvania, 1976.

### **EMPLOYMENT HISTORY**

- Lecturer, Wharton School of Finance, Univ. of Pa., 1972-3
- Assistant Professor, University of Montreal School of Business, 1973-1976.
- Associate Professor, University of Montreal School of Business, 1976-1979.

- Professor of Finance, Georgia State University, 1979-2005
- Professor of Finance for Regulated Industry and Director, Center for the Study of Regulated Industry, College of Business, Georgia State University, 1985-2005
- Visiting Professor of Finance, Amos Tuck School of Business, Dartmouth College, Hanover, N.H., 1986

#### **OTHER BUSINESS ASSOCIATIONS**

- Communications Engineer, Bell Canada, 1962-1967.
- Member of the Board of Directors, Financial Research Institute of Canada, 1974-1980.
- Co-founder and Director Canadian Finance Research Foundation, 1977.
- Vice-President of Research, Garmaise-Thomson & Associates, Investment Management Consultants, 1980-1981.
- Executive Visions Inc., Board of Directors, Member
- Board of External Advisors, College of Business, Georgia State University, Member 1987-1991

**PROFESSIONAL CLIENTS**

AGL Resources

AT & T Communications

Alagasco - Energen

Alaska Anchorage Municipal Light & Power

Alberta Power Ltd.

Ameren

American Water Works Company

Ameritech

Arkansas Western Gas

Baltimore Gas & Electric – Constellation Energy

B.C. Telephone

B C GAS

Bell Canada

Bellcore

Bell South Corp.

Bruncor (New Brunswick Telephone)

Burlington-Northern

C & S Bank

Cajun Electric

Canadian Radio-Television & Telecomm. Commission

Canadian Utilities

Canadian Western Natural Gas

Cascade Natural Gas

Centel

Centra Gas

Central Illinois Light & Power Co.

**PROFESSIONAL CLIENTS (CONT'D)**

Central Telephone  
Central & South West Corp.  
Chattanooga Gas Company  
Cincinnati Gas & Electric  
Cinergy Corp.  
Citizens Utilities  
City Gas of Florida  
CN-CP Telecommunications  
Commonwealth Telephone Co.  
Columbia Gas System  
Consolidated Natural Gas  
Constellation Energy  
Delmarva Power & Light Co  
Deerpath Group  
Edison International  
Edmonton Power Company  
Elizabethtown Gas Co.  
Energen  
Engraph Corporation  
Entergy Corp.  
Entergy Arkansas Inc.  
Entergy Gulf States, Inc.  
Entergy Louisiana, Inc.  
Entergy New Orleans, Inc.  
First Energy  
Florida Water Association

**PROFESSIONAL CLIENTS (CONT'D)**

Fortis

Garmaise-Thomson & Assoc., Investment Consultants

Gaz Metropolitan

General Public Utilities

Georgia Broadcasting Corp.

Georgia Power Company

GTE California - Verizon

GTE Northwest Inc. - Verizon

GTE Service Corp. - Verizon

GTE Southwest Incorporated - Verizon

Gulf Power Company

Havasu Water Inc.

Hawaiian Electric Company

Heater Utilities – Aqua - America

Hope Gas Inc.

Hydro-Quebec

ICG Utilities

Illinois Commerce Commission

Island Telephone

Jersey Central Power & Light

Kansas Power & Light

KeySpan Energy

Manitoba Hydro

Maritime Telephone

Metropolitan Edison Co.

Minister of Natural Resources Province of Quebec

**PROFESSIONAL CLIENTS (CONT'D)**

Minnesota Power & Light  
Mississippi Power Company  
Missouri Gas Energy  
Mountain Bell  
Nevada Power Company  
New Brunswick Power  
Newfoundland Power Inc. - Fortis Inc.  
New Tel Enterprises Ltd.  
New York Telephone Co.  
Norfolk-Southern  
Northeast Utilities  
Northern Telephone Ltd.  
Northwestern Bell  
Northwestern Utilities Ltd.  
Nova Scotia Power – Emera Inc.  
Nova Scotia Utility and Review Board  
NUI Corp.  
NYNEX  
Oklahoma G & E  
Ontario Telephone Service Commission  
Orange & Rockland  
Pacific Northwest Bell  
People's Gas System Inc.  
People's Natural Gas  
Pennsylvania Electric Co.  
Pepco Holdings

**PROFESSIONAL CLIENTS (CONT'D)**

Price Waterhouse  
PSI Energy  
Public Service Electric & Gas  
Public Service of New Hampshire  
Puget Sound Energy  
Quebec Telephone  
Regie de l'Energie du Quebec  
Rochester Telephone  
San Diego Gas & Electric  
SaskPower  
Sierra Pacific Power Company  
Southern Bell  
Southern States Utilities  
Southern Union Gas  
South Central Bell  
Sun City Water Company  
TECO Energy  
The Southern Company  
Touche Ross and Company  
TransEnergie  
Trans-Quebec & Maritimes Pipeline  
TXU Corp  
US WEST Communications  
Union Heat Light & Power  
Utah Power & Light  
Vermont Gas Systems Inc.



**MANAGEMENT DEVELOPMENT AND PROFESSIONAL EXECUTIVE EDUCATION**

- Canadian Institute of Marketing, Corporate Finance, 1971-73
- Hydro-Quebec, "Capital Budgeting Under Uncertainty," 1974-75
- Institute of Certified Public Accountants, Mergers & Acquisitions, 1975-78
- Investment Dealers Association of Canada, 1977-78
- Financial Research Foundation, bi-annual seminar, 1975-79
- Advanced Management Research (AMR), faculty member, 1977-80
- Financial Analysts Federation, Educational chapter: "Financial Futures Contracts" seminar
- Exnet Inc. a.k.a. The Management Exchange Inc., faculty member 1981-2006  
National Seminars:
  - Risk and Return on Capital Projects*
  - Cost of Capital for Regulated Utilities*
  - Capital Allocation for Utilities*
  - Alternative Regulatory Frameworks*
  - Utility Directors' Workshop*
  - Shareholder Value Creation for Utilities*
  - Real Options in Utility Capital Investments*
  - Fundamentals of Utility Finance in a Restructured Environment*
  - Contemporary Issues in Utility Finance*
- Georgia State University College of Business, Management Development Program, faculty member, 1981-1994

**EXPERT TESTIMONY & UTILITY CONSULTING AREAS OF EXPERTISE**

Rate of Return  
Capital Structure  
Generic Cost of Capital  
Costing Methodology  
Depreciation  
Flow-Through vs Normalization  
Revenue Requirements Methodology  
Utility Capital Expenditures Analysis  
Risk Analysis  
Capital Allocation  
Divisional Cost of Capital, Unbundling  
Incentive Regulation & Alternative Regulatory Plans  
Shareholder Value Creation  
Value-Based Management

**REGULATORY BODIES**

Federal Communications Commission  
Federal Energy Regulatory Commission  
Georgia Public Service Commission  
South Carolina Public Service Commission  
North Carolina Utilities Commission  
Pennsylvania Public Service Commission  
Ontario Telephone Service Commission  
Quebec Telephone Service Commission  
Newfoundland Board of Commissioners of Public Utilities  
Georgia Senate Committee on Regulated Industries

**REGULATORY BODIES (CONT'D)**

Alberta Public Service Board  
Tennessee Regulatory Authority  
Oklahoma State Board of Equalization  
Mississippi Public Service Commission  
Minnesota Public Utilities Commission  
Canadian Radio-Television & Telecommunications Comm.  
New Brunswick Board of Public Commissioners  
Alaska Public Utility Commission  
National Energy Board of Canada  
Florida Public Service Commission  
Montana Public Service Commission  
Arizona Corporation Commission  
Quebec Natural Gas Board  
Quebec Regie de l'Energie  
New York Public Service Commission  
Washington Utilities & Transportation Commission  
Manitoba Board of Public Utilities  
New Jersey Board of Public Utilities  
Alabama Public Service Commission  
Utah Public Service Commission  
Nevada Public Service Commission  
Louisiana Public Service Commission  
Colorado Public Utilities Board  
West Virginia Public Service Commission  
Ohio Public Utilities Commission

**REGULATORY BODIES (CONT'D)**

California Public Service Commission

Hawaii Public Service Commission

Illinois Commerce Commission

British Columbia Board of Public Utilities

Indiana Utility Regulatory Commission

Minnesota Public Utilities Commission

Texas Public Utility Commission

Michigan Public Service Commission

Iowa Board of Public Utilities

Missouri Public Service Commission

Arkansas Public Service Commission

Hawaii Public Utility Commission

New Hampshire Public Utility Commission

Delaware Public Utility Commission

Washington Utilities & Transportation Commission

Virginia Public Service Commission

**SERVICE AS EXPERT WITNESS (CONT'D)**

Southern Bell, So. Carolina PSC, Docket #81-201C  
Southern Bell, So. Carolina PSC, Docket #82-294C  
Southern Bell, North Carolina PSC, Docket #P-55-816  
Metropolitan Edison, Pennsylvania PUC, Docket #R-822249  
Pennsylvania Electric, Pennsylvania PUC, Docket#R-822250  
  
Georgia Power, Georgia PSC, Docket # 3270-U, 1981  
Georgia Power, Georgia PSC, Docket # 3397-U, 1983  
Georgia Power, Georgia PSC, Docket # 3673-U, 1987  
Georgia Power, F.E.R.C., Docket # ER 80-326, 80-327  
Georgia Power, F.E.R.C., Docket # ER 81-730, 80-731  
Georgia Power, F.E.R.C., Docket # ER 85-730, 85-731  
Bell Canada, CRTC 1987  
Northern Telephone, Ontario PSC  
GTE-Quebec Telephone, Quebec PSC, Docket 84-052B  
Newtel., Nfld. Brd of Public Commission PU 11-87  
CN-CP Telecommunications, CRTC  
Quebec Northern Telephone, Quebec PSC  
Edmonton Power Company, Alberta Public Service Board  
Kansas Power & Light, F.E.R.C., Docket # ER 83-418  
NYNEX, FCC generic cost of capital Docket #84-800  
Bell South, FCC generic cost of capital Docket #84-800  
American Water Works - Tennessee, Docket #7226  
Burlington-Northern - Oklahoma State Board of Taxes  
Georgia Power, Georgia PSC, Docket # 3549-U

**SERVICE AS EXPERT WITNESS (CONT'D)**

GTE Service Corp., FCC Docket #84-200  
Mississippi Power Co., Miss. PSC, Docket U-4761  
Citizens Utilities, Ariz. Corp. Comm., D # U2334-86020  
Quebec Telephone, Quebec PSC, 1986, 1987, 1992  
Newfoundland L & P, Nfld. Brd. Publ Comm. 1987, 1991  
Northwestern Bell, Minnesota PSC, #P-421/CI-86-354  
GTE Service Corp., FCC Docket #87-463  
Anchorage Municipal Power & Light, Alaska PUC, 1988  
New Brunswick Telephone, N.B. PUC, 1988  
Trans-Quebec Maritime, Nat'l Energy Brd. of Cda, '88-92  
Gulf Power Co., Florida PSC, Docket #88-1167-EI  
Mountain States Bell, Montana PSC, #88-1.2  
Mountain States Bell, Arizona CC, #E-1051-88-146  
Georgia Power, Georgia PSC, Docket # 3840-U, 1989  
Rochester Telephone, New York PSC, Docket # 89-C-022  
Noverco - Gaz Metro, Quebec Natural Gas PSC, #R-3164-89  
GTE Northwest, Washington UTC, #U-89-3031  
Orange & Rockland, New York PSC, Case 89-E-175  
Central Illinois Light Company, ICC, Case 90-0127  
Peoples Natural Gas, Pennsylvania PSC, Case  
Gulf Power, Florida PSC, Case # 891345-EI  
ICG Utilities, Manitoba BPU, Case 1989  
New Tel Enterprises, CRTC, Docket #90-15  
Peoples Gas Systems, Florida PSC  
Jersey Central Pwr & Light, N.J. PUB, Case ER 89110912J

**SERVICE AS EXPERT WITNESS (CONT'D)**

Alabama Gas Co., Alabama PSC, Case 890001  
Trans-Quebec Maritime Pipeline, Cdn. Nat'l Energy Board  
Mountain Bell, Utah PSC,  
Mountain Bell, Colorado PUB  
South Central Bell, Louisiana PS  
Hope Gas, West Virginia PSC  
Vermont Gas Systems, Vermont PSC  
Alberta Power Ltd., Alberta PUB  
Ohio Utilities Company, Ohio PSC  
Georgia Power Company, Georgia PSC  
Sun City Water Company  
Havasu Water Inc.  
Centra Gas (Manitoba) Co.  
Central Telephone Co. Nevada  
AGT Ltd., CRTC 1992  
BC GAS, BCPUB 1992  
California Water Association, California PUC 1992  
Maritime Telephone 1993  
BCE Enterprises, Bell Canada, 1993  
Citizens Utilities Arizona gas division 1993  
PSI Resources 1993-5  
CILCORP gas division 1994  
GTE Northwest Oregon 1993  
Stentor Group 1994-5  
Bell Canada 1994-1995

**SERVICE AS EXPERT WITNESS (CONT'D)**

PSI Energy 1993, 1994, 1995, 1999  
Cincinnati Gas & Electric 1994, 1996, 1999, 2004  
Southern States Utilities, 1995  
CILCO 1995, 1999, 2001  
Commonwealth Telephone 1996  
Edison International 1996, 1998  
Citizens Utilities 1997  
Stentor Companies 1997  
Hydro-Quebec 1998  
Entergy Gulf States Louisiana 1998, 1999, 2001, 2002, 2003  
Detroit Edison, 1999, 2003  
Entergy Gulf States, Texas, 2000, 2004  
Hydro Quebec TransEnergie, 2001, 2004  
Sierra Pacific Company, 2000, 2001, 2002  
Nevada Power Company, 2001  
Mid American Energy, 2001, 2002  
Entergy Louisiana Inc. 2001, 2002, 2004  
Mississippi Power Company, 2001, 2002  
Oklahoma Gas & Electric Company, 2002 -2003  
Public Service Electric & Gas, 2001, 2002  
NUI Corp (Elizabethtown Gas Company), 2002  
Jersey Central Power & Light, 2002  
San Diego Gas & Electric, 2002  
NB Power, 2002  
Entergy New Orleans, 2002



**SERVICE AS EXPERT WITNESS (CONT'D)**

Hydro-Quebec Distribution 2002  
PSI Energy 2003  
Fortis – Newfoundland Power & Light 2002  
Emera – Nova Scotia Power 2004  
Hydro-Quebec TransEnergie 2004  
Hawaiian Electric 2004  
Missouri Gas Energy 2004  
AGL Resources 2004  
Arkansas Western Gas 2004  
Public Service of New Hampshire 2005  
Hawaiian Electric Company 2005  
Delmarva Power & Light Company 2005  
Union Heat Power & Light 2005  
Puget Sound Energy Co 2006-01-16  
Cascade Natural Gas 2006

## **PROFESSIONAL AND LEARNED SOCIETIES**

- Engineering Institute of Canada, 1967-1972
- Canada Council Award, recipient 1971 and 1972
- Canadian Association Administrative Sciences, 1973-80
- American Association of Decision Sciences, 1974-1978
- American Finance Association, 1975-2002
- Financial Management Association, 1978-2002

## **ACTIVITIES IN PROFESSIONAL ASSOCIATIONS AND MEETINGS**

- Chairman of meeting on "New Developments in Utility Cost of Capital", Southern Finance Association, Atlanta, Nov. 1982
- Chairman of meeting on "Public Utility Rate of Return", Southeastern Public Utility Conference, Atlanta, Oct. 1982
- Chairman of meeting on "Current Issues in Regulatory Finance", Financial Management Association, Atlanta, Oct. 1983
- Chairman of meeting on "Utility Cost of Capital", Financial Management Association, Toronto, Canada, Oct. 1984.
- Committee on New Product Development, FMA, 1985
- Discussant, "Tobin's Q Ratio", paper presented at Financial Management Association, New York, N.Y., Oct. 1986
- Guest speaker, "Utility Capital Structure: New Developments", National Society of Rate of Return Analysts 18th Financial Forum, Wash., D.C. Oct. 1986
- Opening address, "Capital Expenditures Analysis: Methodology vs Mythology," Bellcore Economic Analysis Conference, Naples Fla., 1988.

**PAPERS PRESENTED:**

"An Empirical Study of Multi-Period Asset Pricing," annual meeting of Financial Management Assoc., Las Vegas Nevada, 1987.

"Utility Capital Expenditures Analysis: Net Present Value vs Revenue Requirements", annual meeting of Financial Management Assoc., Denver, Colorado, October 1985.

"Intervention Analysis and the Dynamics of Market Efficiency", annual meeting of Financial Management Assoc., San Francisco, Oct. 1982

"Intertemporal Market-Line Theory: An Empirical Study," annual meeting of Eastern Finance Assoc., Newport, R.I. 1981

"Option Writing for Financial Institutions: A Cost-Benefit Analysis", 1979 annual meeting Financial Research Foundation

"Free-lunch on the Toronto Stock Exchange", annual meeting of Financial Research Foundation of Canada, 1978.

"Simulation System Computer Software SIMFIN", HP International Business Computer Users Group, London, 1975.

"Inflation Accounting: Implications for Financial Analysis." Institute of Certified Public Accountants Symposium, 1979.

**OFFICES IN PROFESSIONAL ASSOCIATIONS**

- President, International Hewlett-Packard Business Computers Users Group, 1977

- Chairman Program Committee, International HP Business Computers Users Group, London, England, 1975

- Program Coordinator, Canadian Assoc. of Administrative Sciences, 1976

- Member, New Product Development Committee, Financial Management Association, 1985-1986

- Reviewer: Journal of Financial Research  
Financial Management  
Financial Review  
Journal of Finance

### **PUBLICATIONS**

"Risk Aversion Revisited", Journal of Finance, Sept. 1983

"Hedging Regulatory Lag with Financial Futures," Journal of Finance, May 1983. (with G. Gay, R. Kolb)

"The Effect of CWIP on Cost of Capital," Public Utilities Fortnightly, July 1986.

"The Effect of CWIP on Revenue Requirements" Public Utilities Fortnightly, August 1986.

"Intervention Analysis and the Dynamics of Market Efficiency," Time-Series Applications, New York: North Holland, 1983. (with K. El-Sheshai)

"Market-Line Theory and the Canadian Equity Market," Journal of Business Administration, Jan. 1982, M. Brennan, editor

"Efficiency of Canadian Equity Markets," International Management Review, Feb. 1978.

"Intertemporal Market-Line Theory: An Empirical Test," Financial Review, Proceedings of the Eastern Finance Association, 1981.

### **BOOKS**

Utilities' Cost of Capital, Public Utilities Reports Inc., Arlington, Va., 1984.

Regulatory Finance, Public Utilities Reports Inc., Arlington, Va., 1994.

Driving Shareholder Value, McGraw-Hill, January 2001.

The New Regulatory Finance, forthcoming February 2006.

### **MONOGRAPHS**

Determining Cost of Capital for Regulated Industries, Public Utilities Reports, Inc., and The Management Exchange Inc., 1982 - 1993. (with V.L. Andrews)

Alternative Regulatory Frameworks, Public Utilities Reports, Inc., and The Management Exchange Inc., 1993. (with V.L. Andrews)

Risk and Return in Capital Projects, The Management Exchange Inc., 1980. (with B. Deschamps)

Utility Capital Expenditure Analysis, The Management Exchange Inc., 1983.

Regulation of Cable Television: An Econometric Planning Model, Quebec Department of Communications, 1978.

"An Economic & Financial Profile of the Canadian Cablevision Industry," Canadian Radio-Television & Telecommunication Commission (CRTC), 1978.

Computer Users' Manual: Finance and Investment Programs, University of Montreal Press, 1974, revised 1978.

Fiber Optics Communications: Economic Characteristics, Quebec Department of Communications, 1978.

"Canadian Equity Market Inefficiencies", Capital Market Research Memorandum, Garmaise & Thomson Investment Consultants, 1979.

### **MISCELLANEOUS CONSULTING REPORTS**

"Operational Risk Analysis: California Water Utilities," Calif. Water Association, 1993.

"Cost of Capital Methodologies for Independent Telephone Systems", Ontario Telephone Service Commission, March 1989.

"The Effect of CWIP on Cost of Capital and Revenue Requirements", Georgia Power Company, 1985.

"Costing Methodology and the Effect of Alternate Depreciation and Costing Methods on Revenue Requirements and Utility Finances", Gaz Metropolitan Inc., 1985.

"Simulated Capital Structure of CN-CP Telecommunications: A Critique", CRTC, 1977.

"Telecommunications Cost Inquiry: Critique", CRTC, 1977.

"Social Rate of Discount in the Public Sector", CRTC Policy Statement, 1974.

"Technical Problems in Capital Projects Analysis", CRTC Policy Statement, 1974.

### **RESEARCH GRANTS**

"Econometric Planning Model of the Cablevision Industry", International Institute of Quantitative Economics, CRTC.

"Application of the Averch-Johnson Model to Telecommunications Utilities", Canadian Radio-Television Commission. (CRTC)

"Economics of the Fiber Optics Industry", Quebec Dept. of Communications.

"Intervention Analysis and the Dynamics of Market Efficiency", Georgia State Univ. College of Business, 1981.

"Firm Size and Beta Stability", Georgia State University College of Business, 1982.

"Risk Aversion and the Demand for Risky Assets", Georgia State University College of Business, 1981.

Chase Econometrics, Interactive Data Corp., Research Grant, \$50,000 per annum, 1986-1989.

**UNIVERSITY SERVICE**

- University Senate, elected departmental senator 1987-1989, 1998-2002
- Faculty Affairs Committee, elected departmental representative
- Professional Continuing Education Committee member
- Director Master in Science (Finance) Program
- Course Coordinator, Corporate Finance, MBA program
- Chairman, Corporate Finance Curriculum Committee
- Executive Education: Departmental Coordinator 2000

**Cascade Natural Gas Corporation**  
**GAS UTILITIES BETA ESTIMATES**

	<b>Company</b>	<b>Industry</b>	<b>Beta</b>
1	AGL Resources	GASDISTR	0.90
2	AmeriGas Partners	GASDISTR	0.60
3	Atmos Energy	GASDISTR	0.70
4	KeySpan Corp.	GASDISTR	0.85
5	Laclede Group	GASDISTR	0.80
6	New Jersey Resources	GASDISTR	0.75
7	NICOR Inc.	GASDISTR	1.10
8	Northwest Nat. Gas	GASDISTR	0.70
9	Peoples Energy	GASDISTR	0.85
10	Piedmont Natural Gas	GASDISTR	0.75
11	South Jersey Inds.	GASDISTR	0.65
12	Southern Union	GASDISTR	0.95
13	Southwest Gas	GASDISTR	0.80
14	UGI Corp.	GASDISTR	0.85
15	WGL Holdings Inc.	GASDISTR	0.80
	<b>AVERAGE</b>		<b>0.80</b>

Source: Value Line Investment Analyzer 12/2005



**MOODY'S -GAS RISK PREMIUM ANALYSIS**

Year	Long-Term Government Bond Yield (1)	20 year Maturity Bond Value (2)	Gain/Loss (3)	Interest (4)	Bond Total Return (5)	Moody's Natural Gas Distribution Stock Index (6)	Dividend (7)	Capital Gain/(Loss) % Growth (8)	Yield (9)	Stock Total Return (10)	Equity Risk Premium (11)
1954	0.0272	1000				26.47					
1955	0.0295	965.4392641	-34.56073591	27.2	-0.00736074	28.1	1.38	0.061579146	0.05213449	0.11371364	0.12107437
1956	0.0345	928.1936062	-71.80639378	29.5	-0.04230639	28.23	1.48	0.004626335	0.05266904	0.05729537	0.09960177
1957	0.0323	1032.226922	32.22692211	34.5	0.06672692	25.78	1.49	-0.086787106	0.05278073	-0.03400638	-0.1007333
1958	0.0382	918.0127841	-81.98721588	32.3	-0.04968722	38.71	1.57	0.50155159	0.06089992	0.56245151	0.61213873
1959	0.0447	914.6511711	-85.34882887	38.2	-0.04714883	39.59	1.66	0.022733144	0.04288298	0.06561612	0.11276495
1960	0.038	1093.268809	93.26880912	44.7	0.13796881	48.21	1.84	0.21773175	0.04647638	0.26420813	0.12623932
1961	0.0415	952.7515891	-47.2484109	38	-0.00924841	64.96	1.94	0.347438291	0.04024061	0.3876789	0.39692732
1962	0.0395	1027.475802	27.47580236	41.5	0.0689758	59.73	2.02	-0.080511084	0.03109606	-0.04941502	-0.11839083
1963	0.0417	970.3527041	-29.64729592	39.5	0.0098527	64.62	2.18	0.081868408	0.03649757	0.11836598	0.10851328
1964	0.0423	991.9564631	-8.04353689	41.7	0.03365646	68.24	2.3	0.056019808	0.0355927	0.0916125	0.05795604
1965	0.045	964.638745	-35.36125498	42.3	0.00693875	64.31	2.48	-0.057590856	0.03634232	-0.02124853	-0.02818728
1966	0.0455	993.4796672	-6.520332793	45	0.03847967	53.5	2.61	-0.168092054	0.04058467	-0.12750739	-0.16598705
1967	0.0566	879.0052738	-120.9947262	45.5	-0.07549473	50.49	2.74	-0.056261682	0.05121495	-0.00504673	0.070448
1968	0.0598	951.3804155	-48.6195845	55.6	0.00698042	53.8	2.81	0.065557536	0.05565459	0.12121212	0.11423171
1969	0.0687	904.004327	-95.99567302	59.8	-0.03619567	43.88	2.93	-0.184386617	0.05446097	-0.12992565	-0.09372998
1970	0.0648	1043.375106	43.37510573	68.7	0.11207511	52.33	3.01	0.192570647	0.06859617	0.26116682	0.14909171
1971	0.0597	1059.085853	59.08585344	64.8	0.12388585	47.86	3.07	-0.085419453	0.05866616	-0.0267533	-0.15063915
1972	0.0599	997.6866534	-2.313346613	59.7	0.05738665	53.54	3.12	0.118679482	0.06519014	0.18386962	0.12648297
1973	0.0726	867.0880119	-132.9119881	59.9	0.07301199	43.43	3.28	-0.188830781	0.06126261	-0.12756817	-0.05455619
1974	0.076	965.3271708	-34.67282922	72.6	0.0379217	29.71	3.34	-0.315910661	0.07690536	-0.2390053	-0.27693247
1975	0.0805	955.6314591	-44.36885409	76	0.03163146	38.29	3.48	0.288791653	0.11713228	0.40592393	0.37429247
1976	0.0721	1088.248546	88.24854617	80.5	0.16874855	51.8	3.7	0.352833638	0.09663097	0.44946461	0.28071607
1977	0.0803	919.0304554	-80.96954461	72.1	-0.00886954	50.88	3.93	-0.017760618	0.07586873	0.05810811	0.06697765
1978	0.0898	912.4675601	-87.53243993	80.3	-0.00723244	45.97	4.18	-0.096501572	0.08215409	-0.01434748	-0.00711504
1979	0.1012	902.9914809	-97.00851911	89.8	-0.00720852	53.5	4.44	0.16380248	0.09658473	0.26038721	0.26759573

**MOODY'S -GAS RISK PREMIUM ANALYSIS**

Year	Long-Term Government Bond Yield (1)	20 year Maturity Bond Value (2)	Gain/Loss (3)	Interest (4)	Bond Total Return (5)	Moody's Natural Gas Distribution Stock Index (6)	Dividend (7)	Capital Gain/(Loss) % Growth (8)	Yield (9)	Stock Total Return (10)	Equity Risk Premium (11)
1980	0.1199	859.228428	-140.771572	101.2	-0.03957157	56.61	4.68	0.058130841	0.08747664	0.14560748	0.18517905
1981	0.1334	906.4475125	-93.55248754	119.9	0.02634751	53.5	5.12	-0.05493729	0.09044338	0.03550609	0.00915858
1982	0.1095	1192.382567	192.382568	133.4	0.32578257	50.62	5.39	-0.053831776	0.10074766	0.04691589	-0.27886668
1983	0.1197	923.1185951	-76.88140488	109.5	0.0326186	55.79	5.55	0.102133544	0.10964046	0.211774	0.17915541
1984	0.117	1020.70258	20.70258035	119.7	0.14040258	69.7	5.88	0.249327837	0.10539523	0.35472307	0.21432049
1985	0.0956	1189.26976	189.2697603	117	0.30626976	76.58	6.22	0.098708752	0.0892396	0.18794835	-0.11832141
1986	0.0789	1166.631016	166.6310162	95.6	0.26223102	90.89	5.71	0.186863411	0.07456255	0.26142596	-0.00080506
1987	0.092	881.1709092	-118.8290908	78.9	-0.03992909	77.25	6.02	-0.150071515	0.06623391	-0.08383761	-0.04390852
1988	0.0918	1001.816756	1.816755728	92	0.09381676	86.76	6.3	0.123106796	0.0815534	0.20466019	0.11084344
1989	0.0816	1099.752483	99.75248314	91.8	0.19155248	117.05	6.58	0.34912402	0.0758414	0.42496542	0.23341294
1990	0.0844	973.1746315	-26.82536852	81.6	0.05477463	108.86	6.84	-0.069970098	0.05843657	-0.01153353	-0.06630816
1991	0.073	1118.941524	118.941524	84.4	0.20394152	124.32	6.99	0.14201727	0.06421091	0.20622818	0.00288666
1992	0.0726	1004.186204	4.186204349	73	0.0771862	138.79	7.14	0.116393179	0.05743243	0.17382561	0.096663941
1993	0.0654	1079.697757	79.69775655	72.6	0.15229776	154.06	7.3	0.110022336	0.05259745	0.16261979	0.01032203
1994	0.0799	856.3955561	-143.6044439	65.4	-0.07820444	126.96	7.44	-0.175905491	0.04829287	-0.12761262	-0.04940817
1995	0.0603	1225.976496	225.9764957	79.9	0.3058765	155.94	7.56	0.28260687	0.05954631	0.28780718	-0.01806931
1996	0.0673	923.6666172	-76.33338283	60.3	-0.01603338	166.64	7.91	0.068616134	0.05072464	0.11934077	0.13537415
1997	0.0602	1081.924955	81.92495457	67.3	0.14922495	191.04	8.02	0.146423428	0.0481277	0.19455113	0.04532617
1998	0.0542	1072.713425	72.7134249	60.2	0.13291342	177.24	8.13	-0.072236181	0.04255653	-0.02967965	-0.16259307
1999	0.0682	848.4050699	-151.5949301	54.2	-0.09739493	166.84	8.22	-0.058677499	0.04637779	-0.01229971	0.08509522
2000	0.0558	1148.303774	148.3037735	68.2	0.21650377	200.68	8.22	0.202829058	0.04926876	0.25209782	0.03559404
2001	0.0575	979.9493084	61.93652428	51.2251134	0.11869315	209.6683333	8.22	0.044789383	0.04096073	0.08575012	-0.03294304
MEAN					0.06502489					0.12163903	0.05661415

Source: Mergent's (Moody's) Public Utility Manual 2002 December stock prices and dividends  
 Bond yields from Ibbotson Associates 2002 Yearbook Table B-9 Long-Term Government Bonds Yields  
 December each year.

December stock price, dividends from Moody's Public Utility Manual

### GAS -ANALYSTS' GROWTH FORECAST

	Company	Industry	% Current Divid Yield	Analysts Growth Forecast	Expected Divid Yield	Cost of Equity	ROE
		(1)	(2)	(3)	(4)	(5)	(6)
1	AGL Resources	GASDISTR	4.3	4.8	4.5	9.3	9.5
2	Atmos Energy	GASDISTR	4.7	5.8	5.0	10.8	11.1
3	KeySpan Corp.	GASDISTR	5.3	3.2	5.4	8.6	8.9
4	Laclede Group	GASDISTR	4.7	5.0	4.9	9.9	10.2
5	New Jersey Resources	GASDISTR	3.3	5.3	3.4	8.8	8.9
6	Northwest Nat. Gas	GASDISTR	3.9	5.3	4.1	9.4	9.7
7	Peoples Energy	GASDISTR	5.7	3.5	5.9	9.4	9.8
8	Piedmont Natural Gas	GASDISTR	3.8	5.2	4.0	9.2	9.4
9	South Jersey Inds.	GASDISTR	3.1	6.0	3.3	9.3	9.4
10	Southwest Gas	GASDISTR	3.0	6.0	3.2	9.2	9.4
11	UGI Corp.	GASDISTR	3.1	7.3	3.3	10.7	10.9
12	WGL Holdings Inc.	GASDISTR	4.4	3.8	4.5	8.3	8.5
	AVERAGE		4.1	5.1	4.3	9.4	9.6

Notes:

- Column 1, 2: Value Line Investment Analyzer, 12/2005
- Column 3: Zacks long-term earnings growth forecast, 1/3/2006
- Column 4 = Column 2 times (1 + Column 3/100)
- Column 5 = Column 4 + Column 3
- Column 6 = (Column 4 / 0.95) + Column 3

**GAS -VALUE LINE GROWTH FORECASTS**

	<b>Company</b>	<b>Industry</b>	<b>% Current Divid Yield</b>	<b>Value Line Proj Growth</b>	<b>Expected Divid Yield</b>	<b>Cost of Equity</b>	<b>ROE</b>
		<b>(1)</b>	<b>(2)</b>	<b>(3)</b>	<b>(4)</b>	<b>(5)</b>	<b>(6)</b>
1	AGL Resources	GASDISTR	4.3	5.0	4.5	9.5	9.8
2	Atmos Energy	GASDISTR	4.7	7.0	5.1	12.1	12.3
3	KeySpan Corp.	GASDISTR	5.3	3.0	5.4	8.4	8.7
4	Laclede Group	GASDISTR	4.7	6.0	5.0	11.0	11.3
5	New Jersey Resources	GASDISTR	3.3	6.0	3.5	9.5	9.6
6	Northwest Nat. Gas	GASDISTR	3.9	8.0	4.3	12.3	12.5
7	Peoples Energy	GASDISTR	5.7	3.0	5.9	8.9	9.2
8	Piedmont Natural Gas	GASDISTR	3.8	8.0	4.1	12.1	12.3
9	South Jersey Inds.	GASDISTR	3.1	8.0	3.3	11.3	11.5
10	Southwest Gas	GASDISTR	3.0	11.0	3.4	14.4	14.5
11	UGI Corp.	GASDISTR	3.1	9.5	3.4	12.9	13.1
12	WGL Holdings Inc.	GASDISTR	4.4	5.0	4.6	9.6	9.8
	<b>AVERAGE</b>		<b>4.1</b>	<b>6.6</b>	<b>4.4</b>	<b>11.0</b>	<b>11.2</b>

Notes:

Column 1, 2, 3: Value Line Investment Analyzer, 12/2005  
 Column 4 = Column 2 times (1 + Column 3/100)  
 Column 5 = Column 4 + Column 3

**Distribution Utility Companies**

**Parent**

1	Atlanta Gas Light Co	AGL Resources Inc
2	Central Illinois Public Service Co.	Ameren
3	AEP Texas North Co	American Electric Power
4	AEP Texas Central Co.	American Electric Power
5	Ohio Power Co	American Electric Power
6	Columbus Southern Power Co.	American Electric Power
7	American States Water Co.	American Satates Water Company
8	Southern California Water Co.	American Satates Water Company
9	American Water Capital Corp	American Water Works Company Inc
10	Aqua Pennsylvania	Aqua America Inc
11	Aquarion Water Co. of Connecticut	Aquarion
12	California Water Service Co	California Water Service Group
13	Cascade Natural Gas Corp	Cascade Natural Gas Corp
14	CenterPoint Energy Houston Electric LLC	CenterPoint Energy
15	CenterPoint Energy Resources Corp.LLC	CenterPoint Energy
16	Central Hudson Gas & Electric Co.	CH Energy Group
17	Atlantic City Sewerage Co.	City of Atlantic City
18	Connecticut Water Co.	Connecticut Water Service Inc.
19	Connecticut Water Service Inc.	Connecticut Water Service Inc.
20	Consolidated Edison Inc.	Consolidated Edison
21	Orange and Rockland Utilities Inc.	Consolidated Edison
22	Consolidated Edison Co. of New York Inc.	Consolidated Edison
23	Baltimore Gas & Electric Co	Constellation Energy
24	Duquesne Light Holdings Inc.	Duquesne Light Holdings Inc.
25	Duquesne Light Co	Duquesne Light Holdings Inc.
26	Alabama Gas Corp.	Energen
27	Central Maine Power Co.	Energy East Corporation
28	Connecticut Natural Gas Corp.	Energy East Corporation
29	Southern Connecticut Gas Co.	Energy East Corporation
30	Commonwealth Edison Co.	Exelon
31	PECO Energy Co.	Exelon
32	Jersey Central Power & Light Co.	FirstEnergy
33	Metropolitan Edison Co.	FirstEnergy
34	Pennsylvania Electric Co.	FirstEnergy
35	Aquarion Co.	Kelda Group Plc
36	KeySpan Energy Delivery Long Island	KeySpan
37	KeySpan Energy Delivery New York	KeySpan
38	Boston Gas CO	KeySpan
39	Colonial Gas Co.	KeySpan
40	Laclede Group Inc.	Laclede
41	Laclede Gas Co.	Laclede
42	Middlesex Water Co	Middlesex Water Co
43	Niagara Mohawk Power Corp.	National Grid
44	Narragansett Electric Co.	National Grid
45	National Grid USA	National Grid USA
46	Massachusetts Electric Co.	New England Electric Systems
47	New Jersey Natural Gas Co	New Jersey Resources
48	Nicor Gas Co.	Nicor Inc
49	Nicor Inc	Nicor Inc
50	Bay State Gas Co.	NiSource
51	Yankee Gas Services Co.	Northeast Utilities
52	Western Massachusetts Electric Co	Northeast Utilities System
53	Connecticut Light & Power Co.	Northeast Utilities System
54	Northwest Natural Gas Co.	Northwest Natural Gas Co.
55	NSTAR	NSTAR
56	Boston Edison Co.	NSTAR
57	Commonwealth Electric Co	NSTAR
58	NSTAR Gas Co.	NSTAR
59	Cambridge Electric Light Co.	NSTAR
60	ONEOK Inc.	ONEOK Inc.
61	Rockland Electric Co	Orange and Rockland Utilities Inc.
62	Peoples Gas Light & Coke Co.	Peoples Energy
63	North Shore Gas Co.	Peoples Energy

**Distribution Utility Companies**

**Parent**

64	Delmarva Power & Light Co	PEPCO Holdings
65	Atlantic City Electric Co.	PEPCO Holdings
66	Potomac Electric Power Co.	PEPCO Holdings
67	Piedmont Natural Gas Co. Inc.	Piedmont Natural Gas
68	PPL Electric Utilities Corp.	PPL Corp
69	Baton Rouge Water Works Co. (The)	Private
70	Public Service Electric & Gas Co	Public Service Enterprise Group
71	Questar Gas Co	Questar
72	Public Service Co. of North Carolina Inc.	SCANA Corp.
73	Southern California Gas Co	Sempra Energy
74	South Jersey Gas Co	South Jersey Industries
75	Southern Union Co	Southern Union
76	Southwest Gas Corp.	Southwest Gas
77	Elizabethtown Water Co	Thames Water Co
78	TXU Gas Co.	TXU
79	Oncor Electric Delivery Co.	TXU
80	UGI Utilities Inc	UGI
81	United Water New Jersey	United Water Resources
82	United Waterworks	United Water Resources
83	Indiana Gas Co. Inc.	Vectren
84	WGL Holdings Inc.	WGL Holdings
85	Washington Gas Light Co.	WGL Holdings
86	Wisconsin Gas Co.	Wisconsin Energy Corp
87	York Water Co. (The)	York Water Co. (The)

Source: Standard & Poor's "New Business Profile Scores Assigned for U.S. Utility and Power Companies; Financial Guidelines Revised," June 2004

<b>Electricity Distribution Companies</b>	<b>Parent</b>
1 Central Illinois Public Service Co.	Ameren
2 AEP Texas North Co	American Electric Power
3 AEP Texas Central Co.	American Electric Power
4 Ohio Power Co	American Electric Power
5 Columbus Southern Power Co.	American Electric Power
6 CenterPoint Energy Houston Electric	CenterPoint Energy
7 CenterPoint Energy Resources Corp	CenterPoint Energy
8 Central Hudson Gas & Electric Co.	CH Energy Group
9 Consolidated Edison Inc.	Consolidated Edison
10 Orange and Rockland Utilities Inc.	Consolidated Edison
11 Consolidated Edison Co. of New York	Consolidated Edison
12 Baltimore Gas & Electric Co	Constellation Energy
13 Duquesne Light Holdings Inc.	Duquesne Light Holdings Inc.
14 Duquesne Light Co	Duquesne Light Holdings Inc.
15 Central Maine Power Co.	Energy East Corporation
16 Connecticut Natural Gas Corp.	Energy East Corporation
17 Southern Connecticut Gas Co.	Energy East Corporation
18 Commonwealth Edison Co.	Exelon
19 PECO Energy Co.	Exelon
20 Jersey Central Power & Light Co.	FirstEnergy
21 Metropolitan Edison Co	FirstEnergy
22 Pennsylvania Electric Co.	FirstEnergy
23 Yankee Gas Services Co.	Northeast Utilities
24 NSTAR	NSTAR
25 Boston Edison Co.	NSTAR
26 Commonwealth Electric Co	NSTAR
27 NSTAR Gas Co.	NSTAR
28 Cambridge Electric Light Co.	NSTAR
29 Delmarva Power & Light Co	PEPCO Holdings
30 Atlantic City Electric Co.	PEPCO Holdings
31 Potomac Electric Power Co.	PEPCO Holdings
32 PPL Electric Utilities Corp.	PPL Corp
33 Public Service Electric & Gas Co	Public Service Enterprise Group
34 Public Service Co. of North Carolina Inc.	SCANA Corp.
35 Southern California Gas Co	Sempra Energy
36 TXU Gas Co	TXU
37 Oncor Electric Delivery Co.	TXU
38 Indiana Gas Co. Inc.	Vectren
39 Wisconsin Gas Co.	Wisconsin Energy Corp

Source: Standard & Poor's "New Business Profile Scores Assigned for U.S. Utility and Power Companies; Financial Guidelines Revised," June 2004

**Parent of Electricity Distribution Companies**

**Company**

- 1 Ameren
- 2 American Electric Power
- 3 CenterPoint Energy
- 4 CH Energy Group
- 5 Consolidated Edison
- 6 Constellation Energy
- 7 Duquesne Light Holdings Inc.
- 8 Energy East Corporation
- 9 Exelon
- 10 FirstEnergy
- 11 Northeast Utilities
- 12 NSTAR
- 13 PEPCO Holdings
- 14 PPL Corp
- 15 Public Service Enterprise Group
- 16 SCANA Corp.
- 17 Sempra Energy
- 18 TXU
- 19 Vectren
- 20 Wisconsin Energy Corp



**ELECTRIC- VALUE LINE GROWTH PROJECTIONS**

Company	% Current	Proj EPS
	Divid Yield (1)	Growth (2)
1 Amer. Elec. Power	3.9	2.0
2 Ameren Corp.	4.9	2.5
3 CenterPoint Energy	3.0	-1.5
4 CH Energy Group	4.5	4.5
5 Consol. Edison	5.0	1.5
6 Constellation Energy	2.4	14.0
7 Duquesne Light Hldgs	5.9	3.0
8 Energy East Corp.	5.1	4.5
9 Exelon Corp.	3.1	7.0
10 FirstEnergy Corp.	3.7	10.0
11 Northeast Utilities	3.5	11.0
12 NSTAR	4.0	2.5
13 Pepco Holdings	4.6	6.5
14 PPL Corp.	3.7	6.0
15 Public Serv. Enterprise	3.5	0.5
16 SCANA Corp.	4.1	4.5
17 Sempra Energy	2.6	3.5
18 TXU Corp.	3.1	31.0
19 Vectren Corp.	4.4	4.0
20 Wisconsin Energy	2.3	4.0

Notes:  
 Column 1, 2: Value Line Investment Analyzer, 12/2005

**ELECTRIC- VALUE LINE GROWTH PROJECTIONS**

	<b>Company</b>	<b>% Current Divid Yield (1)</b>	<b>Proj EPS Growth (2)</b>	<b>% Expected Divid Yield (3)</b>	<b>Cost of Equity (4)</b>	<b>ROE (5)</b>
1	Amer. Elec. Power	3.9	2.0	4.0	6.0	6.2
2	Ameren Corp.	4.9	2.5	5.0	7.5	7.7
3	CH Energy Group	4.5	4.5	4.7	9.2	9.5
4	Consol. Edison	5.0	1.5	5.0	6.5	6.8
5	Constellation Energy	2.4	14.0	2.8	16.8	16.9
6	Duquesne Light Hldgs	5.9	3.0	6.1	9.1	9.4
7	Energy East Corp.	5.1	4.5	5.3	9.8	10.1
8	Exelon Corp.	3.1	7.0	3.3	10.3	10.5
9	FirstEnergy Corp.	3.7	10.0	4.1	14.1	14.3
10	Northeast Utilities	3.5	11.0	3.9	14.9	15.1
11	NSTAR	4.0	2.5	4.1	6.6	6.8
12	Pepco Holdings	4.6	6.5	4.9	11.4	11.6
13	PPL Corp.	3.7	6.0	3.9	9.9	10.1
14	SCANA Corp.	4.1	4.5	4.3	8.8	9.0
15	Sempra Energy	2.6	3.5	2.7	6.2	6.3
16	Vectren Corp.	4.4	4.0	4.6	8.6	8.9
17	Wisconsin Energy	2.3	4.0	2.4	6.4	6.5
	<b>AVERAGE</b>	<b>4.0</b>	<b>5.4</b>	<b>4.2</b>	<b>9.5</b>	<b>9.7</b>

Notes:

Column 1, 2: Value Line Investment Analyzer, 12/2005  
 Column 3 = Column 1 times (1 + Column 2/100)  
 Column 4 = Column 3 + Column 2  
 Column 5 = (Column 3 /0.95) + Column 2

**ELECTRIC -ANALYSTS' GROWTH PROJECTIONS**

	<b>Company</b>	<b>% Current Divid Yield (1)</b>	<b>Proj EPS Growth (2)</b>
1	Amer. Elec. Power	3.9	3.3
2	Ameren Corp.	4.9	6.0
3	CenterPoint Energy	3.0	8.8
4	CH Energy Group	4.5	
5	Consol. Edison	5.0	4.0
6	Constellation Energy	2.4	11.2
7	Duquesne Light Hldgs	5.9	5.0
8	Energy East Corp.	5.1	4.5
9	Exelon Corp.	3.1	7.6
10	FirstEnergy Corp.	3.7	4.7
11	Northeast Utilities	3.5	7.8
12	NSTAR	4.0	4.8
13	Pepco Holdings	4.6	3.5
14	PPL Corp.	3.7	7.4
15	Public Serv. Enterprise	3.5	5.2
16	SCANA Corp.	4.1	4.8
17	Sempra Energy	2.6	6.7
18	TXU Corp.	3.1	14.9
19	Vectren Corp.	4.4	4.6
20	Wisconsin Energy	2.3	8.0

Notes:  
 Column 1, 2: Value Line Investment Analyzer, 12/2005

## ELECTRIC -ANALYSTS' GROWTH PROJECTIONS

	Company	% Current Divid Yield (1)	Proj EPS Growth (2)	% Expected Divid Yield (3)	Cost of Equity (4)	ROE (5)
1	Amer. Elec. Power	3.9	3.3	4.0	7.3	7.5
2	Ameren Corp.	4.9	6.0	5.1	11.1	11.4
3	CenterPoint Energy	3.0	8.8	3.3	12.1	12.2
4	Consol. Edison	5.0	4.0	5.2	9.2	9.4
5	Constellation Energy	2.4	11.2	2.7	13.9	14.0
6	Duquesne Light Hldgs	5.9	5.0	6.2	11.2	11.5
7	Energy East Corp.	5.1	4.5	5.3	9.8	10.1
8	Exelon Corp.	3.1	7.6	3.3	10.9	11.0
9	FirstEnergy Corp.	3.7	4.7	3.9	8.6	8.8
10	Northeast Utilities	3.5	7.8	3.8	11.6	11.8
11	NSTAR	4.0	4.8	4.2	8.9	9.1
12	Pepco Holdings	4.6	3.5	4.8	8.3	8.5
13	PPL Corp.	3.7	7.4	3.9	11.4	11.6
14	SCANA Corp.	4.1	4.8	4.3	9.1	9.4
15	Sempra Energy	2.6	6.7	2.8	9.5	9.6
16	TXU Corp.	3.1	14.9	3.6	18.5	18.7
17	Vectren Corp.	4.4	4.6	4.6	9.2	9.5
18	Wisconsin Energy	2.3	8.0	2.5	10.5	10.6
	<b>AVERAGE</b>	<b>3.8</b>	<b>6.5</b>	<b>4.1</b>	<b>10.6</b>	<b>10.8</b>

Notes:

- Column 1: Value Line Investment Analyzer, 12/2005
- Column 2: Zacks long-term earnings growth forecast, 01/2006
- Column 3 = Column 1 times (1 + Column 2/100)
- Column 4 = Column 3 + Column 2
- Column 5 = (Column 3 /0.95) + Column 2

**GAS-COMMON EQUITY RATIOS**

	<b>Company</b>		<b>% Common Equity</b>
1	AGL Resources	GASDISTR	46
2	Atmos Energy	GASDISTR	57
3	KeySpan Corp.	GASDISTR	47
4	Laclede Group	GASDISTR	48
5	New Jersey Resources	GASDISTR	60
6	Northwest Nat. Gas	GASDISTR	54
7	Peoples Energy	GASDISTR	49
8	Piedmont Natural Gas	GASDISTR	56
9	South Jersey Inds.	GASDISTR	51
10	Southwest Gas	GASDISTR	36
11	UGI Corp.	GASDISTR	35
12	WGL Holdings Inc.	GASDISTR	57
	<b>AVERAGE</b>		<b>50</b>
	<b>MEDIAN</b>		<b>50</b>

Source: Value Line Investment Analyzer 12/2005.