CURRICULUM VITAE

NAME

Alexander Kirk

BUSINESS ADDRESS

Brown, Williams, Moorhead & Quinn, Inc.
P.O. Box 10
Sunderland, MD 20689-0010

PRESENT POSITION

Vice President

EDUCATION

Master of Arts in Economics: 2008, University of Washington, Seattle, WA - Concentrations: Econometrics and Natural Resources
Bachelor of Science in Economics and Mathematics: 2005, Linfield College, McMinnville, OR

NATURE OF WORK PERFORMED WITH FIRM

Alex Kirk has testified on issues involving natural gas supply and demand, pipeline competition, and cost-of-service levelization for natural gas pipeline rate cases. I have also assisted clients with natural gas storage, pipeline, and electric generator market-based rate applications, economic life determinations, business risk, rate design, cost-of-service modeling, and other issues.

PREVIOUS EMPLOYMENT

September 2006 – May 2010: **University of Washington, Dept. of Economics**
UW Economics, 1100 Campus Parkway, Condon Hall Room 401, Seattle, WA 98195
Title: TA and Independent Instructor
Duties: I assisted a lecturing professor in a Principles of Microeconomics (Econ 200) course by providing additional lecture and instruction to 50 undergraduate students for two credit hours per week. From 2008 to 2010, I was an independent instructor for Principles of Microeconomics and Natural Resource Economics courses.

October 2006 – March 2007: **Greenfield Advisors**
2601 Fourth Ave., Seattle, WA 98121
Title: Research Analyst
Duties: I estimated hedonic models to measure damages to real estate value from environmental contamination. The results were used in testimony of class action lawsuits filed

against polluters. Settlements and litigation resulted in awards in excess of a hundred million dollars.

Summer 2006: **Federal Energy Regulatory Commission**
888 First St. NE, Washington, D.C. 20426
Title: Economist Intern
Duties: As a member of the Competition Analysis Group, I determined market competitiveness and provided analysis for a case involving an oil pipeline which applied for market-based rates. The economic impact of the case was approximately $90 million per year.

June 2004 – December 2005: **Oregon Economic and Community Development Department**
775 Summer St., NE, Suite 200, Salem, Oregon 97301-1280
Title: Research Analyst

TECHNICAL SKILLS

- Computer Applications: MS Office, Stata, Eviews, Matlab, Mathematica, IMPLAN, and various GIS software.
- Econometrics/Regression analysis
- Knowledgeable on Census, BLS, BEA, EIA, and various energy data
- Analysis of industry clusters
- Experience with geo-coded data
- Energy sector analysis
- Competition and regulatory analysis

AWARDS / SCHOLARSHIPS / TAships

- Trustee Scholarship (Linfield College)
- Psychology Competitive Scholarship (Linfield College)
- Dean's List (Linfield College, 4 semesters)
- Senior Economics Aware (Linfield College, Awarded by merit to one graduating senior)
- Steven Langton Teaching Award (University of Washington)

STUDY ABROAD

- Vienna, Austria (Fall 2002)
- Ghana (January 2004)
- Moscow and St. Petersburg, Russia (January 2005)

#	JURISDICTION	CASE OR DOCKET NO.	UTILITY/ORGANIZATION INITIATING PROCEEDING	POSITION	SUBJECT MATTER
			Formal Proceedings in Which Alexander Kirk Testified		
78	FERC	RP26-939	Eastern Gas Transmission and Storage, Inc.	Witness	Natural Gas Supply and Demand, Economic Life
77	FERC	RP26-884	WBI Energy Transmission, Inc.	Witness	Natural Gas Supply and Demand, Economic Life
76	FERC	RP26-802	Southern Star Central Gas Pipeline, Inc	Witness	Natural Gas Supply and Demand, Economic Life
75	FERC	RP26-797	National Fuel Gas Supply Corporation	Witness	Natural Gas Supply and Demand, Economic Life
74	FERC	RP26-339	Trailblazer Pipeline Company LLC	Witness	Natural Gas Supply and Demand
73	FERC	RP26-257	Alliance Pipeline L.P.	Witness	Natural Gas Supply and Demand
72	FERC	RP25-936	Vector Pipeline L.P.	Witness	Natural Gas Supply and Demand, Economic Life
71	FERC	RP24-971	Vector Pipeline L.P.	Witness	Natural Gas Supply and Demand, Economic Life
70	FERC	RP25-858	ANR Pipeline Company	Witness	Natural Gas Supply and Demand, Economic Life
69	FERC	RP25-855	Great Lakes Gas Transmission Limited Partnership	Witness	Natural Gas Supply and Demand, Economic Life
68	FERC	RP25-844	East Tennessee Natural Gas, LLC	Witness	Natural Gas Supply and Demand, Economic Life
67	FERC	RP24-1103	Columbia Gas Transmission, LLC	Witness	Natural Gas Supply and Demand, Economic Life
66	FERC	RP24-1035	Transcontinental Gas Pipe Line Company, LLC	Witness	Natural Gas Supply and Demand, Economic Life
65	FERC	RP24-781	Algonquin Gas Transmission, LLC	Witness	Natural Gas Supply and Demand, Economic Life
64	FERC	RP24-780	Maritimes & Northeast Pipeline, L.L.C.	Witness	Natural Gas Supply and Demand, Economic Life
63	FERC	RP24-744	Southern Natural Gas Company, L.L.C.	Witness	Natural Gas Supply and Demand, Economic Life
62	FERC	RP24-494	Black Bayou Gas Storage, LLC	Witness	Market Power Study Supporting Market-Based Rates for Black Bayou Gas Storage, LLC
61	FERC	RP24-287	Northern Border Pipeline Company	Witness	Natural Gas Supply and Demand, Economic Life

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60	FERC	RP24-164	Carolina Gas Transmission, LLC	Witness	Natural Gas Supply and Demand, Economic Life
59	FERC	RP23-1099	Gas Transmission Northwest LLC	Witness	Natural Gas Supply and Demand, Economic Life
58	FERC	RP23-930	Saltville Gas Storage Company L.L.C.	Witness	Natural Gas Supply and Demand, Economic Life
57	FERC	RP23-929	National Fuel Gas Supply Corporation	Witness	Natural Gas Supply and Demand, Economic Life
56	FERC	RP23-377	WBI Energy Transmission, Inc.	Witness	Natural Gas Supply and Demand, Economic Life
55	FERC	RP23-241	Sea Robin Pipeline Company, LLC	Witness	Natural Gas Supply and Demand, Economic Life
54	FERC	RP22-1072	Tuscarora Gas Transmission Company	Witness	Natural Gas Supply and Demand, Economic Life
53	FERC	RP22-1031	Transwestern Pipeline Company, LLC	Witness	Natural Gas Supply and Demand, Economic Life
52	FERC	PR22-51	Waha Gas Storage LLC	Witness	Market Power Study Supporting Market-Based Rates for Waha Gas Storage LLC
51	FERC	RP22-501	ANR Pipeline Company	Witness	Natural Gas Supply and Demand, Economic Life
50	FERC	RP21-1187	Eastern Gas Transmission and Storage, Inc.	Witness	Natural Gas Supply and Demand, Economic Life
49	FERC	RP21-1188	Texas Eastern Transmission, LP	Witness	Natural Gas Supply and Demand, Economic Life
48	FERC	RP21-1146	Southwest Gas Storage Company	Witness	Reference to Market Power Study Supporting Petition for Market-Based Rates for Storage Service in Docket No. RP20-1088 to support Market-Based Rates for No-notice Storage, Firm Parking, Firm Loan, and Interruptible Gas Balancing Services
47	FERC	RP21-1143	Transcontinental Gas Pipe Line Company, LLC	Witness	Market Power Study Supporting Market-Based Rates for Transcontinental Gas Pipe line Company, LLC's Washington Storage Field
46	FERC	RP21-1001	Texas Eastern Transmission, LP	Witness	Natural Gas Supply and Demand, Economic Life

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45	FERC	PR21-27, et al.	JEFFERSON ISLAND STORAGE & HUB, L.L.C.	Witness	Market Power Study Supporting Continued authorization for Market-Based Rates for Storage and Wheeling Service and Petition for Market Based Rates for Firm Wheeling Service
44	FERC	RP21-441	FLORIDA GAS TRANSMISSION COMPANY, LLC	Witness	Natural Gas Supply and Demand, Economic Life
43	FERC	CP21-44	LA STORAGE, LLC	Witness	Market Power Study Supporting Petition for Market-Based Rates for Storage and Wheeling Service
42	FERC	RP20-1088	SOUTHWEST GAS STORAGE COMPANY	Witness	Market Power Study Supporting Petition for Market-Based Rates for Storage Service
41	FERC	RP20-1060	COLUMBIA GAS TRANSMISSION, LLC	Witness	Natural Gas Supply and Demand, Economic Life
40	FERC	RP20-980	EAST TENNESSEE NATURAL GAS SYSTEM	Witness	Natural Gas Supply and Demand, Economic Life
39	FERC	RP20-921	MARITIMES & NORTHEAST PIPELINE, LLC	Witness	Natural Gas Supply and Demand, Economic Life
38	FERC	RP20-908	ALLIANCE PIPELINE, LP	Witness	Natural Gas Demand
37	FERC	RP20-631	TENNESSEE GAS PIPE LINE COMPANY, LLC	Witness	Market Power Study Supporting Petition for Market-Based Rates for Storage Service
36	FERC	RP20-467	DOMINION ENERGY COVE POINT LNG, LP	Witness	Natural Gas Supply and Demand, Economic Life
35	FERC	RP20-233	SOUTHWEST GAS STORAGE COMPANY	Witness	Market Power Study Supporting Petition for Market-Based Rates for Storage Service
34	FERC	RP20-131	ENABLE MISSISSIPPI RIVER TRANSMISSION COMPANY	Witness	Natural Gas Supply and Demand, Economic Life
33	FERC	RP19-1426	NATIONAL FUEL GAS SUPPLY CORPORATION	Witness	Natural Gas Supply and Demand, Economic Life
32	FERC	RP19-1523	PANHANDLE EASTERN PIPE LINE COMPANY	Witness	Natural Gas Supply and Demand, Economic Life
31	FERC	RP19-78	PANHANDLE EASTERN PIPE LINE COMPANY	Witness	Natural Gas Supply and Demand, Economic Life
30	FERC	RP19-343	TEXAS EASTERN TRANSMISSION	Witness	Natural Gas Supply and Demand, Economic Life

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29	FERC	RP19-165	WBI ENERGY TRANSMISSION	Witness	Natural Gas Supply and Demand, Economic Life
28	FERC	RP18-940	EMPIRE PIPELINE INC.	Witness	Natural Gas Supply and Demand
27	FERC	RP18-922	TRAILBLAZER PIPELINE COMPANY LLC	Witness	Natural Gas Supply and Demand
26	FERC	RP18-877	MOGAS PIPELINE LLC	Witness	Natural Gas Supply and Demand
25	FERC	PR18-59	KINDER MORGAN TEJAS PIPELINE LLC	Witness	Market-Power Study Supporting Petition for Market-based Rates for Interruptible Wheeling Services at Banquette Hub
24	FERC	RP18-293	ENABLE – MRT	Witness	Natural Gas Supply and Demand
23	FERC	RP18-1126	TRANSCONTINENTAL GAS PIPE LINE	Witness	Natural Gas Supply and Demand, Economic Life
22	FERC	RP18-1115	SALTVILLE GAS STORAGE COMPANY	Witness	Natural Gas Supply and Demand, Economic Life
21	FERC	RP17-598	GREAT LAKES GAS TRANSMISSION LP	Witness	Delivered Price Analysis for Natural Gas, Natural Gas Supply and Demand
20	FERC	RP17-363	EASTERN SHORE NATURAL GAS COMPANY	Witness	Natural Gas Supply and Demand
19	FERC	RP17-197	DOMINION COVE POINT LNG, LP	Witness	Natural Gas Supply and Demand
18	FERC	RP17-13 and RP17-254	JEFFERSON ISLAND STORAGE AND HUB, LLC AND GOLDEN TRIANGLE STORAGE INC.	Witness	Market-power Study Supporting Continued Market-based Rates for Wheeling and Storage Services and Two Facilities
17	FERC	RP17-1050	ARLINGTON STORAGE COMPANY, LLC	Witness	Market-power Study Supporting Market-based Rates for Firm Wheeling Service
16	FERC	RP16-440	ANR PIPELINE COMPANY	Witness	Natural Gas Supply and Demand
15	FERC	RP16-137	TALLGRASS INTERSTATE GAS TRANSMISSION, LLC	Witness	Natural Gas Supply and Demand
14	FERC	RP15-65	GULF SOUTH PIPELINE COMPANY	Witness	Natural Gas Supply and Demand

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13	FERC	RP15-1225	TRES PALACIOS GAS STORAGE LLC	Witness	Market-power Study Supporting Petition for Market-based Rates for Firm Wheeling Services
12	FERC	RP15-1218	CENTRAL NEW YORK OIL AND GAS COMPANY	Witness	Market-power Study Supporting Market-based Rates for Parking and Lending Services
11	FERC	ER14-15	CES PLACERITA, INC.	Witness	Updates Market Power Analysis of Category 1 Electric Generator
10	FERC	RP14-1214	VIKING GAS TRANSMISSION COMPANY	Witness	Natural Gas Supply and Demand
9	FERC	RP14-118	WBI ENERGY TRANSMISSION, INC.	Witness	Natural Gas Supply and Demand, Economic Life
8	FERC	RP13-941	SOUTHERN STAR CENTRAL GAS PIPELINE	Witness	Natural Gas Supply and Demand, Economic Life
7	FERC	RP13-185	VIKING GAS TRANSMISSION COMPANY	Witness	Natural Gas Supply and Demand, Economic Life
6	FERC	RP13-1031	TRAILBLAZER PIPELINE COMPANY LLC	Witness	Natural Gas Supply and Demand, Economic Life
5	FERC	RP12-955	CENTERPOINT ENERGY – MRT	Witness	Natural Gas Supply and Demand
4	FERC	RP12-479	ANR STORAGE COMPANY	Witness	Market-based Rate Application for Existing Storage Facility
3	FERC	RP11-1823	PUBLIC UTILITIES COMMISSION OF NEVADA AND SIERRA PACIFIC POWER COMPANY D/B/A NV ENERGY V. TUSCARORA GAS TRANSMISSION COMPANY	Witness	Natural Gas Supply and Demand, Pipeline Competition
2	FERC	RP10-729	PORTLAND NATURAL GAS TRANSMISSION SYSTEM	Witness	Natural Gas Supply, Cost of Service Levelization
1	FERC	RP06-568 and RP07-373 (consolidated)	TRANSCONTINENTAL GAS PIPE LINE CORPORATION	Witness	Natural Gas Storage, Opportunity Cost, Rolled-in and Incremental Rates