

Customer Contact Name: Jeff Hild
 Customer Contact Email: Jeff.Hild@xcelenergy.com
 Commercial Representative: Kyle Keener

Agreement No. 16FS-10304

EXHIBIT A
FIRM INTRASTATE STORAGE SERVICE
CONFIRMATION OF SERVICE ORDER

Please indicate your acceptance of these terms with an authorized signature and return. If a response is not received within three (3) business days, Customer shall be deemed to have accepted these terms as a true and correct statement of the transaction as indicated herein.

On August 28, 2017, ONEOK Texas Gas Storage, L.L.C. (Company) and Southwestern Public Service Company, a New Mexico corporation (Customer), agreed to this Service Order pursuant to the terms of that Service Agreement effective September 1, 2017, between Company and Customer. Reference is made to that Transportation Service Order with ONEOK WesTex Transmission, L.L.C. dated September 1, 2017 Agreement No. 40FT-1007 ("Transportation Service Order")

Injection Period and Withdrawal Period:	September 1, 2017 through August 31, 2022, and continuing in three month increments thereafter unless terminated by either Party with sixty (60) days written notice; or cancelled by mutual consent by both parties.
Maximum Hourly Injection Quantity:	-
Maximum Hourly Withdrawal Quantity:	-
Maximum Daily Injection Quantity:	25,000 Dth when inventory level is between 0-450,000 Dth 18,750 Dth when inventory level is between 450,001-600,000 Dth
Maximum Monthly Injection Quantity:	-
Maximum Daily Withdrawal Quantity:	26,250 Dth when inventory level is between 0-150,000 Dth 35,000 Dth when inventory level is between 150,001-600,000 Dth
Maximum Monthly Withdrawal Quantity:	-
Maximum Storage Quantity:	600,000 Dth
Fuel Reimbursement Percentage:	1.5% based on injection quantities
Service Agreement Payment:	
a.) Monthly Capacity Charge Reservation Charge:	\$0.1790/Dth/Month = One hundred seven thousand four hundred dollars (\$107,400) for each and every Month specified in the Injection and Withdrawal Period
b.) Monthly Deliverability Demand Charge:	N/A dollars (\$ N/A) at the beginning of and for each and every Month specified in the Injection Period
c.) Injection Charge:	N/A dollars (\$ N/A)
d.) Withdrawal Charge:	N/A dollars (\$ N/A)
Overrun Charge:	\$0.40 per Dth as described below.

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Point(s) of Receipt: PS1-OTGS POOLED STORAGE METER OTGS
OTGS INV OTGS INVENTORY METER

Point(s) of Delivery: OTGS INV OTGS INVENTORY METER
PS1-OTGS POOLED STORAGE METER OTGS

Other Conditions:

- (A) Overruns. Notwithstanding Section 2.5 of the Company Statement of Operation Conditions ("SOC"), the Parties will not be required to execute an additional Service Order covering any such excess gas, and overrun charges described in this Section (A) shall apply to any such excess volumes. In addition to the Demand Charge and the fuel percentage reimbursement on injections set forth above, Customer shall pay a overrun charge of \$0.40 per Dth for gas injected in excess of the Maximum Daily Injection Quantity (MDIQ) and for gas withdrawn in excess of the Maximum Daily Withdrawal Quantity (MDWQ). Customer shall also pay an overrun charge of \$0.40 per Dth per Day for quantities stored in excess of Maximum Storage Quantity or for negative storage quantities. All overruns shall be provided on an interruptible basis. The Overrun charge shall apply whether Customer nominates its injection or withdrawal or whether the injection or withdrawal is the result of a balance transfer pursuant to Customer's Transportation Service Order. Additionally, if Customer fails to pay the overrun charges as described above, then Company shall retain (without compensation to Customer) and take title to all such excess Gas as liquidated damages for any such excess deliveries as described in Section 2.5(A) of the SOC. Except as to the requirement of entering into a new Service Order(s) for any excess volumes, Section 2.5 shall continue to apply.
- (B) Storage services will be used for balancing purposes under Customer's Transportation Service Order. Although Customer has the same day right to use this storage account, nominated storage quantities shall not be netted against daily imbalance quantities injected or withdrawn as a balance transfer pursuant to Customer's Transportation Service Order.
- (C) Any end-of-month imbalance transfer pursuant to Customer's Transportation Service Order shall not be subject to the MDIQ or MDWQ limitation for that day.
- (D) Customer shall pay all surcharges, fees, taxes, charges, and assessments imposed by or on behalf of any governmental entity in connection with the Service Agreement or in connection with the purchase, transportation, storage and disposition of Gas by or on behalf of Customer pursuant to the Service Agreement including but not limited to municipal and/or supplemental fees, franchise fees and any supplements thereto and taxes; provided that Company shall pay all income taxes, ad valorem taxes and assessments levied on the System and all appurtenant facilities. Company shall file all returns required for the Systems and all appurtenant facilities. Customer will furnish Company with any information available to Customer in connection with Company's obligations under this section.

Southwestern Public Service Company, a New Mexico corporation

ONEOK Texas Gas Storage, L.L.C.

By: Th A. Imbler

By: Hayley L. Rose

Name: _____

Name: **Hayley L. Rose**

Title: _____

Title: **Vice President - Commercial**

Date: _____

Date: _____

Name: Thomas A. Imbler
Title: Vice President, Commercial Operations
Xcel Energy Services Inc. as agent for
Southwestern Public Service Company

Natural Gas Pipelines
ONEOK

KHK

(76)



Firm Deferred Delivery Service Agreement
Rate Schedule FDD
2008 Market-Based Rate Expansion

Date: 12/05/07

Shipper's Name and Address for Notices:

Southwestern Public Service Company
550 15th Street, Suite 1200
Denver, Colorado 80202

ATTN: Werner Uebelhoer

Contract No.: 115764

Term: From 06/01/2008 to 05/31/2028

Firm Storage Quantity - Maximum FDD Account Balance Quantity: 4,000,000 Dth

Through 05/31/2028 the rates and charges for services under this Agreement shall be as follows:

Reservation Charge - The reservation charge shall be equal to \$3.0514 and shall be billed pursuant to the terms of Northern's FERC Gas Tariff.

Capacity Charge - The capacity charge shall be equal to \$0.6351 and shall be billed pursuant to the terms of Northern's FERC Gas Tariff.

Injection Charge - The injection charge per Dth shall be equal to the maximum rate and shall be billed pursuant to the terms of Northern's FERC Gas Tariff. The injection charge in the Withdrawal Period shall equal the authorized overrun charge.

Withdrawal Charge - The withdrawal charge per Dth shall be equal to the maximum rate and shall be billed pursuant to the terms of Northern's FERC Gas Tariff.

Fuel - The FDD storage fuel rate shall be equal to the rate set forth in Northern's FERC Gas Tariff and shall be billed pursuant to the terms of Northern's FERC Gas Tariff.

Rollover Charge - The rollover charge per Dth shall be equal to the maximum rate and shall be billed pursuant to the terms of Northern's FERC Gas Tariff. Provided, however, through 05/31/2028, the rollover charge per Dth shall be equal to \$0.00 for any volume less than or equal to 5% of the contract FSQ on May 31 of each year.

Authorized Overrun Charge - The authorized overrun charge shall be equal to the maximum rate and shall be billed pursuant to the terms of Northern's FERC Gas Tariff.

Other rate provisions:

If the Injection Charge and/or Withdrawal Charge are changed pursuant to the terms of this Agreement, the Reservation Charge and Capacity Charge shall be recalculated so that the total rate remains a 100% load factor annual cycle rate of \$1.30 per Dth, less the maximum injection and withdrawal rates, assuming 100% cyclical firm injection and withdrawal utilization. The allocation between the Reservation Charge and the Capacity Charge shall be in Northern's sole discretion.

The withdrawal charge in the Injection Period shall equal the authorized overrun charge.

The contract maximum and minimum quantities are set forth on Appendix A.

Any contingencies set forth in a precedent agreement executed by Northern and Shipper shall continue in effect until the earlier of the date set forth in the precedent agreement or the in-service date of the facilities to be constructed to provide the service hereunder.

Shipper has a right of first refusal as described in Section 52 of the General Terms and Conditions of Northern's FERC Gas Tariff for the capacity herein, subject to any rate authority applicable at that time.

The parties agree that a facsimile or other electronic version of this document, when properly executed and transmitted, shall be considered for all purposes to be an original document, and shall be deemed for all purposes to be signed and constitute a binding agreement. The entire agreement must be faxed or transmitted to Northern. Upon Northern's acceptance and execution, an executed copy will be returned via FAX to the number appearing on the faxed offer or such other number as directed or otherwise electronically transmitted.

Any document generated by the parties with respect to this Agreement, including this Agreement, may be imaged and stored electronically (Imaged Documents). Imaged Documents may be introduced as evidence in any proceeding as if such were original business records, and neither party shall contest the admissibility of Imaged Documents as evidence in any proceeding.

This Agreement constitutes the entire agreement between the parties with respect to the subject matter of this Agreement and shall be binding upon and shall inure to the benefit of the parties hereto and their respective successors and assigns. No promises, agreements or warranties additional to this Agreement other than as may be contained in Northern's FERC Gas Tariff will be deemed to be a part of this Agreement nor will any alteration, amendment or modification be effective unless confirmed in writing by the parties.

Any notice, statement, or bill provided for in this Agreement shall be in writing and shall be considered as having been given if delivered personally, or if mailed by United States mail, postage prepaid, or if sent by express mail, overnight delivery, telex, telecopy or other mutually agreeable means of electronic transmission, to Shipper when sent to the address set forth on this Agreement and to Northern when sent to the following:

All Notices/Accounting Matters:
Northern Natural Gas Company
P.O. Box 3330
Omaha, NE 68103-0330
Attn: Customer Service
Fax No. : 402-548-5280

Payments to Designated Depository:
Northern Natural Gas Company
First National Bank of Omaha
Account No. 110157225
ABA No. 104000016
1620 Dodge Street
Omaha, NE 68197

This Agreement shall incorporate and in all respects shall be subject to the GENERAL TERMS AND CONDITIONS and the applicable Rate Schedule(s) set forth in Northern's FERC Gas Tariff, as may be revised from time to time. Northern may file and seek Commission approval under Section 4 of the Natural Gas Act (NGA) at any time and from time to time to change any rates, charges or other provisions set forth in the applicable Rate Schedule(s) and the GENERAL TERMS AND CONDITIONS in Northern's FERC Gas Tariff, and Northern shall have the right to place such changes in effect in accordance with the NGA, and this Deferred Delivery Service Agreement shall be deemed to include such changes and any changes which become effective by operation of law and Commission Order, without prejudice to Shipper's right to protest the same. Provided, however, the reservation and capacity charges shall not be revised, except as provided in the rate paragraph hereof.

NORTHERN NATURAL GAS COMPANY

SOUTHWESTERN PUBLIC SERVICE COMPANY

By: Kent M. K

By: Karen Hyde

Title: Vice President

Title: VP, Kael Energy Services Inc as agent
for Southwestern Public Service company

Date: 12-5-07

Date: 2-6-08

Contract No.: 115764
 Request No.: 73039
 Amendment No.: 0

Appendix A
 Firm Deferred Delivery Service Agreement
 Rate Schedule FDD

Term: 06/01/2008 through 05/31/2028

Shipper: SOUTHWESTERN PUBLIC SERVICE CO

Firm Storage Quantity (FSQ): 4,000,000 Dth
 Option: 4-Step Option

Storage Points:
 FOI #62996 MWP/HOCKLEY DEF. DELIVERY; FOI #62998 PINNACLE LEA DEF. DELIVERY

Account Balance Parameters:

Injection Period

Shipper's account balance may not be greater than 2,660,000 on August 31.

Withdrawal Period

Shipper's account balance may not be less than 1,600,000 on January 31.

Shipper's account balance may not be greater than 1,000,000 on March 1.

Daily Maximum FDQ:

Injection Period

Period	Daily Maximum Injection FDQ	Daily Maximum Withdrawal FDQ
June	31,579	17,660
July	37,321	17,660
August	41,627	22,075
September	44,019	26,490
October	44,019	26,490

Withdrawal Period

Period	Daily Maximum Withdrawal FDQ	Daily Maximum Injection FDQ
November	69,378	16,071
December	69,378	16,071
January	69,378	16,071
February	53,588	16,071
March	36,364	16,071
April	21,531	8,035
May	Overrun (Interruption)	Overrun (Interruption)

Fuels Supply Organization

As of March 31, 2019, the total of the annualized salaries for the Fuels Supply Organization management was \$744,728.91 for an average of \$186,182.23 per management employee.

Coal Supply

The following management employees (executive level through supervisory level) of Xcel Energy Services Inc. were members of the Fuels Department and engaged in the planning, evaluation, and procurement of coal and coal related resources for Southwestern Public Service Company during the Test Year Period.

Thomas Imbler, VP, Commercial Operations
H. Craig Romer, Director, Fuel Supply Operation, Coal Supply
Dana A. Echter, Manager, Fuel Supply Operations
Marc Failer, Manager, Transportation Portfolio

Changes to Coal Supply Organizational Chart during the Test Year:

There were no changes to Coal Supply Organization during the Test Year.

Professional biographies for these managers are included below.

Professional Biography
Thomas Imbler
Vice President, Commercial Operations
Xcel Energy Services Inc.

Education

B.S., Mechanical Engineering, Wichita State University, 1986
M.B.A., Washburn University, 1998

Work Experience

Mr. Imbler spent 12 years in various marketing and management positions at Western Resources, an electric utility headquartered in Topeka, Kansas.

Mr. Imbler came to New Century Energies (NCE), a predecessor to Xcel Energy, in 1998. He was tasked with developing a new electric trading platform for NCE, and expanded trading activities to most regions of the continental United States.

Mr. Imbler was named Vice President, Commercial Operations, in February 2004. In his current role, Imbler is responsible for Xcel Energy's wholesale electric marketing and trading activities, allowance trading, the economic dispatch of Xcel's 70 regulated generating facilities, natural gas and coal purchasing, rail contracts, and market development activities. Prior to his current role, Mr. Imbler was Managing Director, Electric Trading.

Professional Biography
H. Craig Romer
Director, Fuel Supply Operations
Xcel Energy Services Inc.

Education

B.S. Mechanical Engineering Colorado School of Mines

Work Experience

1994 – Southern Pacific Railroad – Operating Department
1997 – Merger of Union Pacific Railroad – Operating Department
2002 – Union Pacific Railroad – Mechanical Department
2004 – Union Pacific Railroad – Operating Department
2007 – Xcel Energy Services Inc.

Railroad tenure included union craft, managerial, director and division director work assignments. Job descriptions included operating assignments, car handling, customer service, car maintenance, budgetary analysis, safety and derailment prevention, and new technology implementation.

Utility experience includes contractual negotiations, daily operations, business analysis, and plant interaction. Regulatory and governmental analysis and summarization is also included.

Please refer to the Direct Testimony of H. Craig Romer for additional information.

Professional Biography
Dana A. Echter
Manager, Fuel Supply Operations
Xcel Energy Services Inc.

Education

BS, Metallurgical Engineering, Colorado School of Mines

Work Experience

- 1980 to 1998 – ARCO Coal Company – various roles, including coal processing, coal quality, corporate planning, coal mine development, technical staff management, coal supply contract administration, technical coal marketing, etc.
- 1998 to 2000 – Independent Consultant – provided technical and contractual support to a variety of energy and utility clients.
- 2000 to 2004 – Xcel Energy (Sr. Trading Analyst) – responsible for short-term power operations planning for the Public Service of Colorado system.
- 2004 to 2007 – Xcel Energy (Purchased Power Analyst) – managed thermal purchase power agreements.
- 2007 to 2012 – Xcel Energy (Manager of Renewable Energy Purchases) – direct responsibility for the negotiation of utility scale renewable energy purchases and the administration of over 225 long-term purchase power agreements, totaling in excess of 4,500 MW of capacity from wind, biomass, hydro, and solar projects.
- 2012 to present – Xcel Energy (Manager Fuel Supply Operations) – direct responsibility for procurement of coal for Public Service of Colorado and Northern States Power, indirect responsibility for Southwestern Public Service coal procurement issues.

Professional Biography
Marc Failer
Manager, Transportation Portfolio
Xcel Energy Services Inc.

Education

BA, Business Administration, Fort Lewis College

MBA, Management, Regis University

Work Experience

2003 to 2004 – Trilogy Financial Services – Investment Executive – Provided financial planning services.

2004 to 2013 – XTRA Lease – Operations Manager – Managed the branch operations and facility of a 1600 semi-trailer leasing fleet.

2013 to 2016 – Savage Services – Operations Manager – The managerial oversight of coal yard operations, facilities, and equipment at Xcel Energy’s Cherokee Generating Station.

2016 to 2016 – Xcel Energy Service Inc. – Sr. Fuel Operations Consultant – Assisted Fuel Supply Operations with in the daily oversight of solid fuel shipments, inventory management, fleet management, and regulatory compliance.

2016 to Present – Xcel Energy Services Inc. – Manager, Transportation Portfolio – Responsible for rail transportation from source mines to coal-fired power plants operated by Public Service Company of Colorado and Northern States Power.

Gas Supply

The following management employees (executive level through supervisory level) of Xcel Energy Services Inc. were members of the Gas Supply Department and were engaged in the planning, evaluation, and procurement of gas and gas-related resources and oil for generating plants for Southwestern Public Service Company during the Test Year.

Thomas Imbler, VP, Commercial Operations

Michael Boughner, Director, Gas Supply

Craig Rozman, Manager, Gas Supply, Southwestern Public Service

Jeffery D. Ishee, Manager, Gas Supply, Public Service Company of Colorado

Changes to Gas Supply Organizational Chart during the Test Year:

There were no changes to Gas Supply Organization during the Test Year.

Professional biographies for these managers are included below.

Professional Biography
Michael Boughner
Director, Gas Supply
Xcel Energy Services Inc.

Education

B.S., Mechanical Engineering
Virginia Polytechnic Institute and State University, 1997

Work Experience

In 1998, Mr. Boughner began working in the natural gas industry for Williams Gas Pipelines, Inc. as an engineer responsible for compressor station and pipeline projects.

In 2000, Mr. Boughner transitioned to the power industry with Cinergy Corporation, where he managed several projects including implementation of weather and demand forecast processes and preparations for the launch of the Midwest Independent System Operator (MISO) Day 2 Market.

In 2004, Mr. Boughner moved to XES Energy as a Manager of Market Operations responsible for policy development and advocacy in the stakeholder processes at the Southwest Power Pool and MISO.

In 2007, he transferred to the position of Manager of Commercial Operations Projects & Compliance and was responsible for modeling and analytics around the company's generation commitment and trading functions.

In November of 2010, he accepted the position of Manager of Generation Control and Dispatch. In this role, his main responsibilities were to ensure the reliable and economic dispatch of the Operating Companies' generation assets, and maintain consistent documentation of trades and dispatch decisions made by the Power System Traders.

In May of 2014, Mr. Boughner accepted his current position as Director, Gas Supply where he is responsible for managing and directing the gas supply activities for Xcel Energy's regulated Operating Companies, including Southwestern Public Service Company. This includes the development of operational and strategic purchasing strategies and day-to-day natural gas and fuel oil procurement activities. He is also responsible for the direction of the scheduling functions for the Operating Companies' gas supply.

Professional Biography
Craig Rozman
Manager Gas Supply
Northern States Power and Southwestern Public Service Company
Xcel Energy Services Inc.

Education

A.S.S., Photography, Northwest College, 1987
B.S., Marketing, Black Hills State University, 1993

Work Experience

Mr. Rozman began his career with Western Gas Resources in 1994 as a Gas Control Representative. Duties included scheduling and monitoring the flow of natural gas at plants, pipelines, and wellhead production.

In 1995, Mr. Rozman moved from Western Gas Resources to KN Energy Inc. as a Gas Control Representative. Duties included scheduling and monitoring the flow of natural gas to approximately 450 end use customers.

Mr. Rozman moved to Barrett Resources in 1997 as a transportation and exchange representative. Duties included scheduling and monitoring the flow of company-owned production as well as 3rd party trading activities. Additional duties included the trading of natural gas.

After the merger of Barrett Resources and Williams Companies in 2001, Mr. Rozman moved to Xcel Energy as a Gas Buyer for the Public Service Company of Colorado business unit. Duties included purchasing natural gas for the Public Service LDC to meet on-system load requirements. He was promoted to Sr. Gas Buyer in July 2005 and Manager, Gas Supply in November 2005. In his present position, Mr. Rozman is responsible for managing the day-to-day activities including gas acquisition and nominations related for the Southwestern Public Service and Northern States Power business units of Xcel Energy.

Professional Biography**Jeffery D. Ishee****Manager Gas Supply, Public Service Company of Colorado
Xcel Energy Services Inc.****Education**

B.S., Accounting, Louisiana State University, 1981

Work Experience

After graduating from College in 1981, Mr. Jeffery Ishee worked for two years with a public accounting firm before entering the natural gas industry in 1983 as a Gas Accountant with Mid-Louisiana Gas Company. In 1986, he accepted the position of Rates & Regulatory Analyst at Mid-Louisiana Gas Company and held that position until 1989 when he decided to move to Denver, Colorado and accepted the position of Gas Transportation Representative with Western Gas Resources. In 1993, he was promoted to the position of Gas Trader-Midcontinent Region and later promoted to Manager Mid-Continent Region Gas Marketing at Western Gas Resources.

In 2001, he began his employment with Xcel Energy Inc. as a Gas Buyer/Trader for Northern States Power Company. He held that position until 2003, when he was promoted to his current position of Manager, Gas Supply within the Fuels Department of the Energy Supply Group.

Since 2004, his responsibilities have included managing the gas purchasing, transportation scheduling and upstream service agreements (transportation and storage contracts) for the gas distribution and electric generation assets of Public Service Company of Colorado. He is responsible for the development and implementation of the daily, annual and long-range gas supply plans, including the gas hedging plans (Gas Price Volatility Mitigation Plans) for both the Gas and Electric Departments.

He has previously filed testimony before the Colorado Public Utilities Commission in Docket Nos. 11A-036G, 11A-037E, 12A-058G, 12A-059E and also has provided direct support to Company witnesses testifying on gas supply and gas hedging issues in various proceedings before the Commission since 2004.

Gas Resource Planning

The following management employees (executive level through supervisory level) of Xcel Energy Services Inc. were members of the Gas Resource Planning Department and were engaged in the gas supply planning functions for the gas distribution and electric generation natural gas requirements, as well as the administration of the upstream gas transportation and storage contracts for the Xcel Energy operating companies.

Thomas Imbler, VP, Commercial Operations
Curtis Dallinger, Director, Gas Resource Planning
Jeffrey Hild, Manager, Gas Resource Planning
Catherine Danforth, Manager, Fuel Analytics
Richard L. Derryberry, Manager, Gas Resource Planning

Changes to Gas Resource Planning Organizational Chart during the Test Year:

There were no changes to the Gas Resource Planning Organization during the Test Year.

Professional biographies for these managers are included below.

Professional Biography
Curtis Dallinger
Director, Gas Resource Planning
Xcel Energy Services Inc.

Professional Summary

Mr. Dallinger graduated from Colorado State University, Fort Collins, Colorado, in 1978 with a Bachelors of Science Degree in Civil Engineering.

Mr. Dallinger is employed as Director of Gas Resource Planning for Xcel Energy Services Inc. in Denver, Colorado. His group's responsibilities include the development of forecasts for daily and annual gas requirements and gas strategic planning, including the upstream gas system resource needs for Public Service Company of Colorado, Northern States Power Company, and Southwestern Public Service Company. He is responsible for the gas supply planning functions for the gas distribution and electric generation natural gas requirements as well as the administration of the upstream gas transportation and storage contracts for the Xcel Energy operating companies.

Mr. Dallinger began his employment with Public Service Company of Colorado in June of 1978 and has been employed by Public Service or one of its affiliates in a number of positions including Gas Utilization Engineer, Gas Process Engineer, Supervisor of Gas Process Engineering, Engineering Manager, Manager of Gas Business Development, President and General Manager of Natural Fuels Corporation, an affiliate of Public Service. In 1999, he was made Manager, Gas Control for Public Service, and in 2004 was promoted to his current position of Director Gas Resource Planning for Xcel Energy Services Inc.

Professional Biography
Jeffrey Hild
Manager, Gas Resource Planning
Xcel Energy Services Inc.

Professional Summary

Mr. Hild graduated from the University of Nebraska in 1988 with a Bachelor of Science in Electrical Engineering, and in 1996 with a Masters of Science in Applied Mathematics with a minor in Industrial Engineering.

Prior to joining the utility industry, Mr. Hild worked in the construction and the aerospace industries. He began his utility career with Xcel Energy in December 2000 joining the Energy Markets group as a Trading Analyst conducting day-ahead planning and economic analysis of the electric power requirements for Southwestern Public Service Company. In March 2003, he joined Xcel Energy's Purchased Power group where he was responsible for the negotiation and administration of long-term power purchase agreements for Xcel Energy's operating companies: Southwestern Public Service Company, Public Service Company of Colorado and Northern States Power Company.

Mr. Hild accepted a professional development assignment as a manager with Xcel Energy's Gas Resource Planning group in February 2009, and was formally promoted into that position one year later, where he continues working to the present day. As Manager, Gas Resource Planning, he is responsible for development of forecasts for daily and annual gas requirements, gas price forecasts, and strategic planning of upstream gas system resource requirements for Southwestern Public Service Company and Public Service Company of Colorado. He is also responsible for the administration of upstream gas transportation and storage contracts to serve the natural gas distribution and natural gas-fired electric generation needs for these Operating Companies.

In 2003, Mr. Hild conducted a study on the integration of wind into electrical power systems, jointly publishing the results in *The Electricity Journal* as a report titled "*Integrating Large Amounts of Wind Energy with a Small Electric-Power System.*"

Professional Biography
Catherine Danforth
Manager, Fuel Analytics
Xcel Energy Services Inc.

Education

B.S., Psychology, Regis College, Denver, Colorado

Work Experience

Ms. Danforth is currently the Manager of the Fuel Analytics group, which combines individuals from gas resource planning, coal, and natural gas to support analytical and data requirements of the Fuels Group. Since 2005, Ms. Danforth worked with the Xcel Energy Gas Supply group as the Gas Systems Analyst. In this position, she was the system administrator and Subject Matter Expert (SME) for the gas management and fuel oil systems, acting as a liaison between the Front Office, Mid Office, Back Office and Information Technology to extract the full value of the software. She provided analytical support and research on various natural gas issues and associated regulatory data requests, researching and preparing FERC and EIA filings on a monthly, yearly or bi-annual basis.

Prior to moving to the Gas Supply group, Ms. Danforth was the Director of Business Integration for e prime Energy Marketing, Inc. (the marketing subsidiary for Xcel Energy). In this role she directed the day to day operations of the company's retail marketing business including contract administration, scheduling, and operating systems. Ms. Danforth came to the e prime companies in 1998 as the Manager of Business Integration.

Ms. Danforth also worked at KN Energy, Inc. from 1989 to 1998 in a variety of positions including Sales Operations Manager, Marketing Operations Representative, Senior Nomination Representative, Transportation Representative and Administrative Gas Control Technician.

Ms. Danforth also worked in the private sector for Walter Duncan Oil Properties from 1986 to 1989.

Ms. Danforth entered the oil and gas industry in 1982 with McMoRan Oil & Gas Co (formerly Midlands Energy, a subsidiary of KN Energy, Inc.) in the Land department.

Professional Biography
Richard Derryberry
Manager, Gas Resource Planning
Xcel Energy Services Inc.

Education

B.A., Liberal Arts (Government), University of Texas at Austin
Master of Business Administration, University of Texas at Austin

Work Experience

Mr. Derryberry joined Xcel Energy in July, 2012. He is the Manager of Gas Resource Planning focusing on the Northern States Power (“NSP”) companies in Minnesota and Wisconsin. In this position, he manages the upstream gas transportation requirements for NSP’s gas and electric operations. His duties involve estimating the amount of peak day demand on the NSP system and obtaining the upstream transportation contracts to serve that demand.

Until May, 2012, Mr. Derryberry was employed by El Paso Corp. (an interstate pipeline holding company). Most recently, he held the position of Director of Rates, where he was responsible for the development and implementation of rates for the interstate pipeline companies of Colorado Interstate Gas, Wyoming Interstate, Cheyenne Plains Gas, Ruby Pipeline, El Paso Natural Gas, Mojave Pipeline, and Young Gas Storage. From 2005 – 2010, he was the Director of Regulatory Affairs for those companies, where he was responsible for the preparation and prosecution of all certificate and tariff matters. Before those roles, he held a variety of positions of increasing responsibility in the certificate and tariff areas.

Commercial Operations Organization

The following management employees (executive level through supervisory level) of Xcel Energy Services Inc. were members of the Commercial Operations organization and were engaged in the dispatch of generation assets, purchase and sales of electricity in wholesale electric markets and development of wholesale electric markets for Southwestern Public Service Company during the Test Year.

As of March 31, 2019, the total of the annualized salaries for the Commercial Operations Organization management was \$2,888,091.85, for an average of \$180,505.74 per management employee.

Thomas A. Imbler, VP, Commercial Operations
Jeffrey Klein, Manager, Structured Purchases
Tara Fowler, Manager, Renewable Energy Power Purchases
Michael Boughner, Director, Market Operations
Joseph C. Taylor, Manager, Transmission Access
Tom R. McDonough, Manager, Transmission Access
Carrie Dixon, Manager Market Operations
Kari Hassler, Senior Manager, Market Operations
John Welch, Director, Power Operations
Nicholas Detmer, Manager, Commercial Operations Projects & Compliance
Mark Schultz, Manager, Power Operations
Jeffrey Haskins, Manager, Power Operations
Meg Nguyen, Manager, Power Operations
Bryce Schneider, Director, Energy Trading & Origination
Fritz Schultz, Manager, Origination Energy Trading
David Green, Manager, Energy Trading

Changes to Commercial Operations Organization during the Test Year were:

Michael Boughner accepted the position of Director, Market Operations on June 1, 2018.
Tim Kawakami, Director, Purchased Power retired from Xcel Energy April 2018.
Stephen J. Beuning, Director, Market Operations retired from Xcel Energy August 2, 2018.

Professional biographies for these managers are included below.

Professional Biography
Tara Fowler
Manager Renewable Energy Power Purchases
Xcel Energy Services Inc.

Professional Summary

Ms. Fowler received a Master of Science in Global Energy Management, University of Colorado – Denver and a Bachelor of Business Administration in Management and a Bachelor of Business Administration in Marketing, University of Iowa

In 2001, Tara started her career as an Energy Trader for Aquila Merchant Energy. She left Aquila after the company exited the wholesale energy and marketing business to work as a Financial Services Analyst for Lockton Insurance Brokerage. Ms. Fowler joined Xcel Energy in 2003 as a Transmission Accountant. Since that time, she has held several positions at Xcel Energy within the Energy Trading group. In September 2015, Tara accepted the position of Manager, Renewable Energy Power Purchases. She is currently responsible for managing and coordinating the negotiation, renegotiation, and administration of long-term renewable energy purchased power agreements and associated legal documents between Xcel Energy and qualifying renewable energy facilities, IPPs, and utilities to meet native load and regulatory requirements while maximizing optionality and minimizing costs.

Professional Biography
Jeffrey C. Klein
Manager, Structured Purchases
Xcel Energy Services Inc.

Professional Summary

Mr. Klein received a Bachelor of Arts degree in Political Science in May 1978, from California State University, Northridge and a Juris Doctor degree in June 1981, from Southwestern University School of Law. He is admitted to the State Bar of California.

Since 1982, Mr. Klein has held a number of contract management and/or legal related positions with Rockwell International, Perceptronics, Inc., Sierra Pacific Resources/Nevada Power Company and now Xcel Energy.

In addition to various positions he has held and significant activities accomplished, Mr. Klein assisted in the implementation of Nevada Power Company's functional unbundling to comply with FERC Orders 888 and 889, and directed the wholesale merchant operations for Nevada Power Company and subsequently Sierra Pacific Power Company.

Mr. Klein is currently Manager, Structured Purchases in the Purchase Power department for Xcel Energy, with responsibility for nonrenewable purchased power contract negotiations and contract management.

Mr. Klein has provided pre-filed testimony to, and/or testified in proceedings with, the Public Utilities Commission of Nevada, Public Utility Commission of Texas, the New Mexico Public Regulation Commission, the Colorado Public Utilities Commission and the Minnesota Public Utilities Commission.

Please refer to the Direct Testimony of Jeffrey C. Klein for additional information.

Professional Biography
Michael Boughner
Director Market Operations
Xcel Energy Services Inc.

Education

B.S., Mechanical Engineering
Virginia Polytechnic Institute and State University, 1997

Work Experience

In 1998, Mr. Boughner began working in the natural gas industry for Williams Gas Pipelines, Inc. as an engineer responsible for compressor station and pipeline projects.

In 2000, Mr. Boughner transitioned to the power industry with Cinergy Corporation, where he managed several projects including implementation of weather and demand forecast processes and preparations for the launch of the Midwest Independent System Operator (MISO) Day 2 Market.

In 2004, Mr. Boughner moved to XES Energy as a Manager of Market Operations responsible for policy development and advocacy in the stakeholder processes at the Southwest Power Pool and MISO.

In 2007, he transferred to the position of Manager of Commercial Operations Projects & Compliance and was responsible for modeling and analytics around the company's generation commitment and trading functions.

In November of 2010, he accepted the position of Manager of Generation Control and Dispatch. In this role, his main responsibilities were to ensure the reliable and economic dispatch of the Operating Companies' generation assets, and maintain consistent documentation of trades and dispatch decisions made by the Power System Traders.

In May of 2014, Mr. Boughner accepted his current position as Director, Gas Supply where he is responsible for managing and directing the gas supply activities for Xcel Energy's regulated Operating Companies, including Southwestern Public Service Company. This includes the development of operational and strategic purchasing strategies and day-to-day natural gas and fuel oil procurement activities. He is also responsible for the direction of the scheduling functions for the Operating Companies' gas supply.

Professional Biography
Tom McDonough
Manager, Transmission Access
Xcel Energy Services Inc.

Education

Juris Doctorate, William Mitchell College of Law
Bachelor of Science in Business, Carlson School of Management, University of Minnesota
Education, Mathematics, Pittsburg State University

Professional Summary

2004 – Present

Manager Transmission Access, Xcel Energy

Responsible for the overall management of Xcel Energy's Northern States Power Company requirements for acquiring, studying and tracking transmission service, interconnection and capacity rights.

2000 – 2004

Senior Attorney/Senior Business Operations Consultant

Provide leadership to Xcel Energy management on business and strategic matters. Negotiate and prepare power purchase agreements, contracts and other business transaction documents. Represent and advocate Xcel Energy Markets interests in regulatory issues and proceedings. Coordinate Energy Market regulatory filings and associated data requests.

1999 – 2000

Manager, Contract Administration, Northern States Power Company

Responsible for the overall management and development, negotiation and implementation of power marketing contracts.

Professional Biography
Kari Chilcott Hassler
Senior Manager, Market Operations
Xcel Energy Services Inc.

Education

Master of Science in Applied Mathematics, University of Colorado
Bachelor of Science in Education, Mathematics, Pittsburg State University

Work Experience

2016 – Present

Senior Manager Market Operations, Xcel Energy

Develop and coordinate market design positions and advocate Xcel Energy's position both internally and externally to senior management, regulators, stakeholders and leadership at MISO. Direct the design and implementation policy initiatives resulting from regional market development and similar regional efforts.

2014 – 2016

Manager Trading Analytics, Xcel Energy

Managed a team of eight analysts and meteorologists that submitted energy and ancillary service offers to the regional power markets (SPP and MISO) and developed commitment schedules for PSCo resources to ensure economic operations while balancing the needs of the generating plants. Directed NSP, SPS and PSCo system operations, including load and renewable generation forecasting, system modeling, fuel nominations, dispatch decisions, and optimization strategies.

2008 - 2014

Renewable Energy Portfolio Manager, Xcel Energy

Managed the Xcel Energy Renewable Energy Credit (REC) portfolio to maximize financial opportunities while minimizing compliance risk. Implemented the strategic direction for the acquisition and disposition of RECs for compliance and revenue generation. Collaborated with Regulatory to develop the policy and strategy regarding REC allocation and sales margin sharing proposals in multiple states. Analyzed the impact to the Company of proposed RPS policy revisions and provided recommendations for improvement.

1998 - 2008

Statistician/Senior Load Research Analyst/Senior Quantitative Risk Analyst, Xcel Energy

Analyzed data and determined best regression model for Gas Temperature Factor Case. Testified in Public Utilities Commission (PUC) hearing as Xcel Energy's statistical expert and filed written testimony for the case. PUC ruled in company's favor which saved Xcel Energy over \$160 million. Led internal and regional efforts to develop policies for Texas deregulation. Legislation eventually prevented SPS from deregulating, but the analytics developed for this project were designed with the flexibility to ultimately be used by our unregulated subsidiary and for SPS rate cases.

Professional Biography
Joseph C. Taylor
Manager, Transmission Access
Xcel Energy Services Inc.

Professional Summary

Mr. Taylor received a Bachelor of Science degree in Petroleum Engineering in 1984 from Texas A&M University and a Master of Business Administration in 1992 from the University of Texas – El Paso.

Since 1985, he has held a number of power marketing, contracts and transmission-related positions in the electric utility industry, with thirteen of these years in a management role. During this time, he has been employed by El Paso Electric Company (1985-1995), Plains Electric Generation and Transmission Cooperative (1995-2000) and Tri-State Generation and Transmission Association (2000-2004).

In November 2004, he accepted a position as the Manager of Transmission Access for Xcel Energy Services. In this role, his staff and he are responsible for obtaining and maintaining the transmission and ancillary services required for the native and wholesale loads of Public Service Company of Colorado and Southwestern Public Service Company, two of the operating companies of Xcel Energy.

Throughout his career, he has been active in regional utility initiatives, including ISO/RTO formation efforts, education and training, and participation in market and reliability committees in both the Western Interconnection and the Southwest Power Pool. He has filed testimony before the New Mexico Public Regulation Commission, the Colorado Public Utility Commission and the Federal Energy Regulatory Commission.

Professional Biography
John T. Welch
Director, Power Operations
Xcel Energy Services Inc.

Professional Summary

Mr. Welch received a Bachelor of Fine Arts degree in August 1997, from the University of Iowa.

In 1999 Mr. Welch began working for NRG Energy, at the time a wholly owned subsidiary of Xcel Energy Inc. In the fall of 2002, John accepted a position with Xcel Energy Services in Denver, Colorado and had primary responsibility for managing the economic dispatch of the owned and contracted generation and purchase power resources for the Xcel Energy operating companies. His duties included Automatic Generation Control (AGC) functions for Southwestern Public Service Company (SPS), Northern States Power (NSP), and Public Service Company of Colorado (PSCo).

In addition, Mr. Welch is certified by North American Electric Reliability Council (NERC) as a Reliability Coordinator Operator and has a Western Electricity Coordinating Council (WECC) System Operator certification.

Mr. Welch is currently the Director of Power Operations. He was promoted in February of 2006 to this new position.

Professional Biography
Nicholas J. Detmer
Manager, Commercial Operations Projects & Compliance
Xcel Energy Services Inc.

Professional Summary

Mr. Detmer graduated December 1991 from Montana College of Mineral Science and Technology with a Bachelor of Science in Petroleum Engineering.

He joined Unocal in 1992 as an Engineer and worked on numerous geothermal energy projects in the USA, Indonesia, Philippines, Central America, and South America. In 1996 he moved into Unocal's Geothermal Corporate Planning as a Financial Engineer. In 2000 he joined Calpine Corporation an Operations Analyst to provide costing and economic analysis of gas fired power plants as well as advise Calpine's marketing group on power plant optimization.

In 2002, Mr. Detmer earned his MBA from Colorado State University and took the position of Manager of Operations Analytics in Calpine. He provided oversight of Calpine's GADS system, costing, and economic analysis for Calpine's fleet of gas power plants.

In 2003, he joined Xcel Energy in the Resource Analytics group within the Risk department and modeled Xcel Energy's systems in ProSym. In July 2004, he was promoted to Manager of Trading Analytics in Xcel Energy's Commercial Operations group. The Trading Analytics Group provides pre-scheduling day-ahead planning and economic analysis for all three of Xcel Energy's operating companies. In May 2008, he was promoted to Manager Generation Control & Dispatch. On November 1, 2010, he transferred to the position of Manager of Commercial Operations Projects & Compliance where his primary responsibility is to oversee various economic modeling activities such as pre- and post- analysis, wind forecasting, compliance monitoring, and provide additional analytical, regulatory, and reporting support to operational and market activities. Additional responsibility is to represent the interests of Xcel Energy and its ratepayers before the Midwest ISO, Southwest Power Pool and state regulators as it continues development and operation of its wholesale energy market. This includes improvements to the current energy market design as well as development of ancillary services markets with an integrated resource adequacy construct.

He has testified before commissions in New Mexico, Texas and Colorado as well as the Federal Energy Regulatory Commission. He is a Professional Engineer in the State of Colorado.

Professional Biography
Mark Schultz
Manager, Power Operations
Xcel Energy Services Inc.

Professional Summary

Mr. Schultz received a Bachelor of Arts Degree from Union College in 1997, majoring in economics.

In 1997, Mr. Schultz began employment with Lipper Analytical Services, Inc. in the Closed End Funds Department. Mr. Schultz left Lipper in 1999 to work as a Registered Representative for Charles Schwab. Mr. Schultz joined Xcel Energy in 2001 as a Risk Analyst. After holding several positions at Xcel Energy within Risk Management and Real Time Trading, Mr. Schultz took a position as Manager, Real Time Trading in August 2007. Mr. Schultz began his current position as Manager Generation Control and Dispatch in June 2014.

Professional Biography
Jeff Haskins
Manager, Power Operations
Xcel Energy Services Inc.

Professional Summary

Mr. Haskins received a Bachelor of Science degree in Applied Science from Black Hills State University in 1993.

He began his career in 1995 trading natural gas for Western Gas Resources. He began working for New Century in 1999. During this time, he gained experience in Fuel Supply and Electric Operations. He left New Century Energies prior to the merger in 2001 and accepted a position at Bryan Texas Utilities as a Real Time Trader. He returned to Xcel Energy in 2005 and worked as a Trading Analyst. In July 2008, he became Manager of Trading Analytics for Commercial Operations. As Manager of Trading Analytics, he managed six analysts and two meteorologists. His group was responsible for planning the short term unit commitment and dispatch of the Xcel Energy's electric utilities. Analytics is also involved with generation outage coordination, next day fuel forecasting, producing reports, and conducting data requests regarding operations. The meteorologists are responsible for forecasting wind generation along with electricity demand and providing detailed weather reports used to plan and operate the electric utilities reliably and economically. In September 2014, Mr. Haskins began his current position of Manager Renewable Energy Portfolio. In this role, he is responsible for the overall management of Xcel Energy's renewable energy portfolio and compliance with renewable portfolio standards. In addition, he is the administrator of Xcel Energy's accounts in the WREGIS, M-RETS, MIRECS and Texas REC regional tracking registries. He also represents Xcel Energy in the development of renewable portfolio standards, rules and protocols on a state, regional and national level.

Professional Biography
Meg Nguyen
Manager, Power Operations
Xcel Energy Services Inc.

Professional Summary

Ms. Nguyen received a Bachelor of Science in Business Administration degree from the University of Denver in 1995, majoring in Economics with a minor in Finance.

In 1997, Ms. Nguyen worked as a Tariff Analyst for Bentek Energy Research analyzing and modeling tariff data. Ms. Nguyen went to E Prime Energy Marketing in 1998 to be a Risk Management Associate. She transitioned to XERS Inc in July 2001 working as a Risk Management and Supply Associate/Consultant. Her work in that position included hedging the retail natural gas position, and performing energy settlements. Since joining Xcel Energy in November 2004 as a Trading Analyst, her functions included day-ahead unit commit and dispatch planning, long-term and post-analytics analysis, and project management. Ms. Nguyen began her current position as Manager, Power Operations for NSP in May 2017.

Professional Biography
Bryce Schneider
Director, Energy Trading
Xcel Energy Services Inc.

Education

Bachelor of Business Administration Management, University of San Diego
Bachelor of Mass Media Communications, University of San Diego
Certificate Leadership and Management, University of Texas
Series 4,7,55,63 Licensed

Professional Summary

Bryce started his career trading equities for Fidelity Investments in NYC. After five years profitably trading and managing the internet trading desk for Fidelity, Bryce moved to the commodities business with Enron. Bryce was a Northeast power trader in NYISO, PJM, and NeePool and was subsequently hired by UBS to manage the long term NYISO trading book. In 2004 Bryce moved to Dallas to run sales and trading for First Southwest Investment Bank (Now Plains Capital). After a successful three years, Bryce returned to the commodities space with TXU Energy. In 2007 he was made Director of the mid-marketing and structured transactions business for the newly formed Energy Futures Holdings (EFH). After a successful six years in the power and gas sales group Bryce was promoted to Sr. Director of Trading and Origination. There he managed the long-term portfolio of both TXU Retail and Luminant Power's hedging and proprietary businesses. In the late summer of 2015 Bryce joined Xcel Energy as Director of Trading and Origination. His responsibilities at Xcel are to manage the trading activities and strategies as well as develop business opportunities on a national platform. He is also in charge of annual hedges for Xcel's operating companies' native load.

Professional Biography
Alfred “Fritz” Schulz, Jr.
Manager, Energy Origination
Xcel Energy Services Inc.

Education

Master of Science, Finance, University of Wisconsin, 1994

Bachelor of Business Administration, Finance, University of Wisconsin, 1992

While attending the University of Wisconsin graduate program, Mr. Fritz Schulz targeted his studies towards advanced derivative theory and quantitative techniques for valuation of complicated financial instruments.

Professional Summary

After graduating from the UW, he accepted a position with Laurits R. Christensen and Associates as an Economist. His responsibilities included developing software for locational marginal pricing and demand elasticity analysis, and he also contributed to the publications “Electricity Risk Management” and “Costing Ancillary Services”.

In 1998, he joined PricewaterhouseCoopers in New York as a Consultant where he specialized in developing methodologies for valuation of structured wholesale and retail energy commodity contracts. He also provided strategic analysis to the management of energy companies regarding the risk measurement of their commodity positions and potential acquisition targets.

In 2000, he accepted an origination position with Morgan Stanley, Inc. where he provided nationwide coverage for electricity and natural gas customers. During his 12 years at Morgan Stanley, he developed the ERCOT energy trading desk and originated transactions that supported multiple billions in project finance debt activity. He was promoted to the position of Managing Director in 2008.

Prior to joining Xcel Energy, he worked as an independent consultant on the development of renewable projects in domestic and international markets. He also explored the opportunity to derive cleaner burning liquid fuels from lignite and coal.

In 2016, Fritz began his employment with Xcel Energy Services, Inc. and today is the Head of Energy Origination. In this position, he leads a team of originators who have daily interactions with multiple counterparties as they source physical and financial power and gas transactions across the country, including PJM, ERCOT, MISO and WECC markets.

Professional Biography
David Green
Manager, Energy Trading
Xcel Energy Services Inc.

Education

B.S.E, *Cum Laude*, Operations Research and Financial Engineering, Certificates in Finance and Engineering and Management Systems, Princeton University, 2003

Professional Summary

After graduating from Princeton in 2003, Mr. David Green began work at Citadel Investment Group in Chicago, IL as an Investment and Trading Analyst within the Energy Trading Strategy of a Global Macro Hedge Fund. He began focusing on commodity trading in the Northeast and Midwest Power and Natural Gas Markets, trading PJM, Cinergy, NYISO and ISO New England. Working until 2008, he held positions of Trader, Portfolio Manager, and eventually Director when he was the Head of the 8 person East Power Desk. During his time at Citadel, he traded East Power, WECC power, natural gas, oil and emissions markets, from cash until 5 years out on the forward curve.

In 2009, David accepted a position of Senior Energies Trader with the Proprietary Trading firm Infinium Capital Management in Chicago, where he built and executed a Northeast Power Market Making business, and worked on the Natural Gas Options trading team.

In 2011, he went to work for Citigroup in Houston, TX as a Director in the West Power business - pricing, managing and trading power and gas swaps and options in CAISO, Mid C and Palo Verde. In 2013 he moved full time over to Citigroup's Natural Gas desk, where he was a leader on an 8 person team of traders and analysts, developing and executing investment and risk management strategies for Citi's North American natural gas trading business.

In 2016, David began his employment with Xcel Energy, Inc. in Denver, CO as Head of Natural Gas Trading and Origination, tasked with building and managing the Financial Natural Gas Trading business for Xcel Energy Services.

In 2017 at Xcel, David was promoted to Manager, Head of Energy Trading. In this position, he oversees the daily operations of 12 traders and associates as they trade physical and financial power and natural gas in PJM, ERCOT, MISO and WECC.

Resource Planning and Bidding Organization

The following management employees (executive level through supervisory level) of Xcel Energy Services Inc. were members of the Resource Planning and Bidding organization and were engaged in the dispatch of generation assets, purchase and sales of electricity in wholesale electric markets and development of wholesale electric markets for Southwestern Public Service Company during the Test Year.

As of March 31, 2019, the total of the annualized salaries for the Resource Planning and Bidding Organization management was \$2,062,169.60 for an average of \$257,771.20 per management employee.

David Eves, EVP, Group President- Utilities & CAO
Jonathan Adelman, AVP, Strategic Resource and Business Planning
Philip Martin, Director, Resource Planning and Bidding
Bennie Weeks, Manager, Resource Planning and Bidding
Jim Hill, Director, Resource Planning and Bidding
Jon Landrum, Manager, Resource Planning Analytics
Patrick Bourke, Director, Strategic Asset Planning
James Dominick, Director, Strategic Asset Planning

Changes to the Resource Planning and Bidding organization during the Test Year.

There were no changes to the Resource Planning and Bidding Organization during the Test Year.

Professional biographies for these managers are included below.

Professional Biography

David Eves

**Executive Vice President, Group President - Utilities
Xcel Energy Services Inc.**

Professional Summary

David Eves is Executive Vice President and Group President - Utilities. Previously he served as President of Public Service Company of Colorado. He also served as President and CEO of Southwestern Public Service Company. In addition he has held roles as vice president of Resource Planning and Acquisition for Xcel Energy, where he had responsibility for resource planning, wholesale power supply, transmission rights, and gas transportation and storage services for all of Xcel Energy's operations in eight states.

Eves received a Bachelor of Science degree in mechanical engineering from Kansas State University in 1981.

He currently serves on the board of trustees for Mile High United Way and he is on the board of directors of the Denver Metro Chamber of Commerce, Boys and Girls Clubs of Metro Denver, and the Mountain States Employers Council. He is a member of the Colorado Forum and Colorado Concern. Eves has served as a past executive committee and operating committee member at Western Systems Power Pool.

Professional Biography
Jonathan Adelman
Area Vice President- Strategic Resource and Business Planning
Xcel Energy Services Inc.

Professional Summary

Mr. Adelman graduated from Washington and Lee University in 1997 with a Bachelor of Science in Accounting with special Attainments in Commerce and subsequently became a Certified Public Account registered in the State of Colorado (currently inactive).

Mr. Adelman has been employed by Xcel Energy since 2002, holding numerous job assignments and managerial positions. During his tenure at Xcel Energy he has worked in the areas of; Commercial Operations, Finance, Human Resources Marketing, Business Strategy and Resource Planning. Prior to joining Xcel Energy, Mr. Adelman worked in Public Accounting in Washington D.C., Colorado and Switzerland.

Mr. Adelman currently manages all of the electric resource planning activities for Xcel Energy. Additionally, Mr. Adelman manages a strategic planning group supporting the four operating utilities of Xcel Energy.

Mr. Adelman has testified or supported testimony and discovery in numerous proceedings across Xcel Energy's eight state service territory.

Professional Biography
Philip Joseph “P.J.” Martin
Director, Resource Planning and Bidding
Xcel Energy Services Inc.

Professional Summary

Philip Joseph “P.J.” Martin is the Director, Resource Planning and Bidding for Northern States Power Company – Minnesota. He is responsible for the direction of electric resource planning for the NSP System, which provides electric service to customers in North Dakota, South Dakota, Minnesota, Wisconsin, and Michigan.

Martin joined Xcel Energy in August 2015 as Director, Strategic Asset Planning where he focused primarily on business planning for the four operating companies at Xcel Energy Inc. In October 2016, he was promoted to his current role.

Prior to joining Xcel Energy, Martin was a Portfolio Director and Energy Trader at ACES Power Marketing from 2007 to 2015. In these roles, he engaged in trading and wholesale portfolio management activities on behalf of electric cooperatives, municipal utilities, IPPs, banks, and other customers. He also supported long-term planning and risk management efforts for these customers in MISO, PJM, SERC, and other markets across the United States.

Martin received his B.A. in international relations from Dartmouth College and his Master of Business Administration degree with a concentration in finance from East Carolina University.

Professional Biography
Bennie Weeks
Manager, Resource Planning-SPS
Xcel Energy Services Inc.

Professional Summary

Bennie Weeks is Manager, Resource Planning – SPS. Her duties include managing analysts and planners in the development of strategic resource planning including: need assessment, planning, solicitation and negotiation of long-term purchased power agreements, and financial analysis of various resource and purchase/sales options. She is also responsible for management of the various state resource planning processes in a manner to fulfill regulatory requirements and meet company objectives.

Bennie began her employment at Xcel Energy/SPS in September 1979, as a meter reader. She became an Engineering Estimator in the Fuel Administration Department in 1981. As an estimator, she prepared monthly fuel plans and prepared the five-year fuel budget. In 1984, she became Senior Production Costing Specialist in Fuel Acquisition and Administration. In that position she performed studies for fuel budgets, capital projects, fuel contracts, alternative operating procedures, and other special projects. She was responsible for a production costing model (PROMOD) and coordinated and developed the short term and long term fuel and energy planning and budgeting for the SPS generating system. In October 2000, she became a Case Specialist in Regulatory Administration – SPS managing all aspects of regulatory cases. She accepted her current position in October 2008.

Professional Biography

Jim Hill

**Director, Resource Planning and Bidding PSCo
Xcel Energy Services Inc.**

Professional Summary

Jim Hill is the Director of the Resource Planning and Bidding Group for PSCo, and is responsible for overseeing the Company competitive resource acquisition processes as well as the various technical analyses of the resource options that are available to Public Service Company of Colorado for meeting customer demand.

Jim graduated from Colorado State University in 1983 with a Bachelor of Science degree in Natural Resource Management and in 1995 from the University of Colorado with a Bachelor of Science degree in Mechanical Engineering.

Jim has been employed by Public Service Company of Colorado, New Century Services, Inc., Xcel Energies Services Inc. for over 30 years. He began his employment in 1984 at Public Service Company of Colorado's Fort St. Vrain Nuclear Generating Station in the Technical Services and Licensing Department. In August 1992, he joined Public Service Company of Colorado's System Planning Department where he performed resource planning functions, as a Planning Engineer, a Senior Resource Planning Analyst, Manager of Resource Planning and Bidding and now Director of Resource Planning and Bidding with a focus on Public Service Company of Colorado.

Jim has testified numerous times before the Colorado Public Utilities Commission regarding electric resource planning issues in numerous dockets.

Professional Biography

Jon Landrum

**Manager, Resource Planning Analytics-Xcel Energy
Xcel Energy Services Inc.**

Professional Summary

Jon Landrum is the manager of the analytics team for Resource Planning. The team maintains and uses the Strategist planning model to perform resource planning studies, and performs other ad hoc analyses in support of the company's strategic planning processes.

Jon began his employment with Xcel Energy in May 2006 as the manager of the team that develops long range price forecasts for key commodities, including natural gas and market electricity. He later transitioned to a role leading the Asset Risk Analytics team that performs cost-benefit studies and infrastructure replacement analyses for the electric and gas distribution systems. He accepted his current position in Resource Planning in March 2013.

Prior to joining Xcel Energy, Jon worked in multiple analytical and leadership roles in the Resource Planning, Commercial/Industrial DSM, and Marketing organizations at TECO Energy in Tampa, Florida. Jon has a B.S. in Electrical Engineering and a Masters in Business Administration, and was a Registered Professional Engineer in the state of Florida.

Professional Biography
Patrick Bourke
Director, Strategic Asset Planning
Xcel Energy Services Inc.

Professional Summary

Patrick Bourke is the Director of Strategic Asset Planning for Xcel Energy and is responsible for overseeing strategic plans for each of Xcel's utility operating companies. This involves business and strategic planning as well as managing certain strategic projects for the operating companies.

Patrick has been employed by Xcel Energy in the Strategic Asset Planning group since 2016. Prior to joining Xcel Energy, he worked in treasury and corporate finance for American Electric Power Co. from 2007 through 2016. At AEP, he was responsible for managing the capital structure for AEP and its utility operating companies. Before AEP, he worked in finance and accounting roles in the real estate finance industry.

Patrick graduated from the College of Wooster in 2005 with a Bachelor of Arts degree in Economics and Political Science and in 2017 from Indiana University's Kelley School of Business with a Master of Business Administration degree.

Professional Biography
James K. Dominick
Director, Strategic Asset Planning
Xcel Energy Services Inc.

Professional Summary

James K. Dominick is the Director of Strategic Asset Planning for the Southwestern Public Service (SPS) and Public Service Company of Colorado (PSCo). He is responsible for overseeing the Company's strategic asset planning activities for SPS and PSCo, including: business planning process, generation strategy, strategic investment delivery, and strategic analysis of various operating company options.

James graduated from Syracuse University with a BS in Economics in 2000, and a MSc in Mineral Economics from the Colorado School of Mines in 2004.

Prior to coming to Xcel, he was a portfolio manager for a small New York based alternative energy private equity fund and a financial analyst for a small oil and gas exploration company. James is a veteran of the United States Navy.

Since coming to Xcel in 2006, James has been actively involved in risk management, trading and investment delivery of special projects. James has been responsible for program management and investment delivery of the 600MW Rush Creek Wind Project in Colorado, the 478MW Hale Wind Development in Texas, and the 522MW Sagamore Wind Development in New Mexico. James also served as the Bid Evaluator for the Colorado Energy Plan by providing due diligence for 419 bids totaling more than 120,000MW of projects bid.

I-15 Workpapers

As discussed in the testimony of William A. Grant, Southwestern Public Service Company (“SPS”) has not filed a fuel reconciliation with its current base rate case in accordance with the Order in Project No. 41905 and 16 Tex. Admin. Code § 25.236 as revised in that project. SPS has included this workpaper in the rate filing package with only the information that remains applicable to information presented in SPS’s base rate case.

PPA: **Borger Energy Associates, L.P.**

Index: Implicit Price Deflator for Gross Domestic Product as published by the U.S. Department of Commerce, Bureau of Economic Analysis.¹

Terms:

1. Seller’s Charge
2. Fixed O&M Price
3. Variable O&M Price

Periodicity: Annual adjustment

Index Values: 2017: 1st Qtr - 112.846 (as published on May 26, 2017)
2018: 1st Qtr - 114.828 (as published on May 30, 2018)
2019: 1st Qtr - In accordance with 2019 budget.

Contract Amount: 224.297 MW Capacity

PPA: **Oneta Power, LLC (I)**

Index: Implicit Price Deflator for Gross Domestic Product as published by the U.S. Department of Commerce, Bureau of Economic Analysis²

Terms:

1. Scheduling Charge
2. Variable O&M Price

Periodicity: Annual adjustment

¹ Index is published quarterly and is used to adjust listed PPA components once annually. Please note that this index is periodically rebased and is subject to further revision after initial publication. The current base year for the values listed above is 2009.

² Index is published quarterly and is used to adjust listed PPA components once annually. Please note that this index is periodically rebased and is subject to further revision after initial publication. The base year for the values listed above is 2009.

Index Values: 2016: 4th Qtr - 112.234 (as published on January 27, 2017)
2017: 4th Qtr - 114.279 (as published on January 26, 2018)

Contract Amount: 200 MW Capacity

PPA: **Oneta Power, LLC (II)**

Index: Implicit Price Deflator for Gross Domestic Product as published by the U.S. Department of Commerce, Bureau of Economic Analysis³

Terms:
1. Scheduling Charge
2. Variable O&M Price

Periodicity: Annual adjustment

Index Values: 2016: 4th Qtr - 112.234 (as published on January 27, 2017)
2017: 4th Qtr - 114.279 (as published on January 26, 2018)
2018: 4th Qtr - 111.215 (as published on February 28, 2019)

Contract Amount: 200 MW Capacity

For the following PPAs please refer to Schedule I-4 for the contract capacity amounts:

- City of Lubbock, TX (Cooke Units);
- Lea Power Partners, LLC; and
- Sid Richardson Carbon, Ltd.

³ Index is published quarterly and is used to adjust listed PPA components once annually. Please note that this index is periodically rebased and is subject to further revision after initial publication. The base year for the 2017 value listed above is 2009. The base year for the 2018 value is 2012.