



**Southwest Power Pool  
FINANCE COMMITTEE MEETING**

**July 6, 2016**

**Dallas, TX**

**• M I N U T E S •**

**Administrative Items**

SPP Chair Harry Skilton called the meeting to order at 7:30 a.m. The following members of the Finance Committee participated:

Harry Skilton	SPP Director
Larry Altenbaumer	SPP Director
Kelly Harrison	Westar Energy
Sandra Bennett (phone)	AEP
Laura Kapustka	Lincoln Electric
Mike Wise	Golden Spread Electric Cooperative
Tom Dunn	SPP

Others attending included:

Bruce Scherr (phone)	SPP Director
Graham Edwards	SPP Director
Traci Bender (phone)	NPPD
Denise Buffington	KCPL
Scott Smith	SPP
Richard Ross	AEP
Nick Brown	SPP
Stan Payne	Stephens Insurance
Kevin McBride	Stephens Insurance
Jim Goss	Stephens Insurance

Minutes from the April 5, 2016 meeting were reviewed, including a detailed review of the action items. Larry Altenbaumer motioned to approve the minutes. The motion was seconded by Mike Wise and approved by unanimous voice vote.

The Committee reviewed edits to the Finance Committee Scope Document based on recommended changes discussed at the April 2016 meeting. Laura Kapustka motioned to approve the edited document. The motion was seconded by Kelly Harrison and approved by unanimous voice vote. The approved document will be forwarded on to the SPP Corporate Governance Committee for their review, approval, and adoption.

The Committee requested SPP staff perform additional analysis to quantify the value virtual transactions provide to the SPP Integrated Marketplace.

The Committee requested SPP staff evaluate adding controls arounds its credit processes to the scope of controls subject to the SSAE 16 controls audit.

**Corporate Liability Insurance Review**

SPP staff and representatives from Stephens Insurance delivered a thorough review of SPP's corporate liability insurance program. Staff was directed to visit with several of SPP's utility members to gain insights on how they insure against cyber liabilities. SPP staff will present options for cyber liability insurance policies at the Finance Committee's December 2016 meeting.

**2017 Administrative Fee Forecast**

SPP an analysis of the factors leading to its forecast of under-recovery in 2016 and the impact that under-recovery coupled with expected increases in personnel costs would have on the administrative fee forecast in 2017. The largest single driver impacting the future administrative fee forecast is lower zonal peak demand throughout the SPP

Finance Committee  
July 6, 2016

footprint. SPP is presently forecasting a 2017 administrative fee rate of just over 41¢/MWh. This rate will exceed the rate cap of 39¢/MWh in the SPP tariff.

Mike Wise motioned to increase the Schedule 1A rate cap in the SPP tariff to 43¢/MWh. The motion was seconded by Sandra Bennett and approved by unanimous voice vote.

### **2016 Auditor Engagements**

SPP staff presented a recommendation to engage the incumbent outside auditors to perform audits of SPP's financial statements (BKD, LLC), benefit plans (Thomas and Thomas), and SSAE 16 controls (KPMG). The Committee discussed and reached consensus on establishing a guideline of putting the audit business out for bid every 6 years unless the Committee determines a reason to not perform the exercise.

Kelly Harrison motioned to approve engaging BKD to audit SPP's 2016 financial statements, Thomas and Thomas to audit SPP's 2016 benefit plan financial statements, and KPMG to audit SPP's control environments for the 2016-17 audit period. The motion was seconded by Laura Kapustka and approved by unanimous voice vote.

### **Written Reports**

The Committee reviewed the written reports provided in the meeting materials.

### **Future Meetings**

The next meeting of the Finance Committee is scheduled for September 27, 2016 at the DFW Hyatt Regency hotel in Dallas, TX beginning at 8:30 a.m. and ending at 2:30 p.m.

There being no further business, Harry Skilton adjourned the meeting at 1:11 p.m.

Respectfully Submitted,

Thomas P. Dunn  
Secretary



Southwest Power Pool, Inc.  
FINANCE COMMITTEE  
**Action Items Status Report**  
July 6, 2016

	<b>Action Item</b>	<b>Date Originated</b>	<b>Status</b>	<b>Comments</b>
1.	Quantify liquidity provided to Integrated Marketplace by virtual transactions	July 6, 2016	New	
2.	Evaluate inclusion of credit process controls in SSAE 16 audit scope	July 6, 2016	New	
3.	Investigate how SPP member utilities insure against cyber liabilities	July 6, 2016	New	To be discussed at December 2016 meeting
4.	Engage firm to review work of actuary on benefit plans	April 5, 2016	New	
5.	Direct Credit Practice Working Group to reevaluate practice of using positive value TCR as collateral for TCR portfolio	April 5, 2016	New	
6.	Full review of corporate liability insurance	12/07/2015	Complete	Presented at July 7, 2016 meeting
7.	Prepare a graph of historical member deficit	April 5, 2016	Complete	Presented at July 7, 2016 meeting
8.	Report each meeting on significant legal issues	April 5, 2016	Complete	Presented at July 7, 2016 meeting
9.	Determine requirement for SPP to fund RSC	April 5, 2016	Complete	Presented at July 7, 2016 meeting
10.	Review description of RE function in financial audit footnotes	April 5, 2016	Complete	Removed any mention of RE from footnotes
11.	Provide documentation of control activities on credit security refunds	April 5, 2016	Complete	Presented at July 7, 2016 meeting
12.	Re-review controls on approving invoices for payment	April 5, 2016	Complete	Presented at July 7, 2016 meeting
13.	Document value added by financial only market participants compared to profits earned by these participants in SPP markets	April 5, 2016	Complete	Presented at July 7, 2016 meeting
14.	Illustrate impact of charging NITS based on energy and PtP based on reserved capacity	April 5, 2016	Complete	Presented at July 7, 2016 meeting
15.	Provide information on December 2015 settlement dispute activity	April 5, 2016	Complete	Description sent on afternoon of April 5, 2016

Finance Committee  
 July 6, 2016

16.	Add Settlement and Credit metrics to Committee materials	3/11/2016	Complete	Scheduled for April 2016 meeting
17.	Revisit SPP's rate design	11/10/2015	Complete	Scheduled for April 2016 meeting
18.	Prepare document outlining capital expenditures and funding options	7/17/2015	Complete	Scheduled for April 2016 meeting
19.	Establish a scorecard for presentation to MOPC, SPC, and BOD indicating costs associated with member required projects/services.	10/11/2012	Complete	Presented at March 11, 2016 meeting
20.	Create checklist of committee duties	7/09/2015	Complete	Presented at March 11, 2016 meeting



**Southwest Power Pool, Inc.  
FINANCE COMMITTEE MEETING  
July 6, 2016  
DFW Hyatt Regency Hotel  
Dallas, TX**

**• A G E N D A •**

July 5, 2016  
7:00 p.m.

Coleman's Corner (private room in hotel restaurant)

1. Dinner .....

July 6, 2016

7:30 a.m. – 2:30 p.m.

1. Administrative Items (60 minutes) ..... Harry Skilton
2. Corporate Liability Insurance Review (120 minutes).....Scott Smith / Stan Payne / Kevin McBride
3. 2017 Administrative Fee Forecast (60 minutes)..... Tom Dunn
4. 2016 Financial Audit Engagement (30 minutes) ..... Tom Dunn
5. Other Items .....
6. Written Reports
  - a. May 2016 Financial Report (unaudited)
  - b. SPP Portfolio Report
  - c. Finance, Settlements, Credit Metrics
  - d. Legal Matters
  - e. CPWG Update
7. Adjourn ..... Harry Skilton



**Southwest Power Pool  
FINANCE COMMITTEE MEETING**

**April 5, 2016**

**Dallas, TX**

**• M I N U T E S •**

**Administrative Items**

SPP Chair Harry Skilton called the meeting to order at 7:30 a.m. The following members of the Finance Committee participated:

Harry Skilton	SPP Director
Larry Altenbaumer	SPP Director
John Olsen (proxy for K. Harrison)	Westar Energy
Sandra Bennett	AEP
Laura Kapustka	Lincoln Electric
Mike Wise	Golden Spread Electric Cooperative
Tom Dunn	SPP

Others attending included:

Bruce Scherr	SPP Director
Dianne Branch	SPP
Traci Bender	NPPD
Barrett Breeding	BKD
Steve Osborn	Osborn, Carreiro & Associates, Inc.
Jason Bailey (phone)	OG&E

Minutes from the March 11, 2016 meeting were reviewed. Larry Altenbaumer motioned to approve the minutes. The motion was seconded by Mike Wise and approved by unanimous voice vote with an abstention by Laura Kapustka.

**Capital Asset Funding Plan Review**

The Committee discussed the merits of different options to fund the acquisition of fixed assets. Following the discussion, the Committee achieved consensus on establishing a guideline of funding 80% of new fixed assets with new debt and the remaining 20% would be funded through the administrative fee. This guideline is consistent with the funding utilized in the 2016 SPP budget.

**Finance Committee Scope Document**

Upon review of the draft scope document, several changes were recommended. Most of the changes involved actions of the Committee which should be presented to the SPP Board of Directors for final approval as opposed to the Committee approving the actions with no Board of Director actions. SPP staff will edit the draft scope document for review by the Committee at its July meeting.

**2015 Financial Audit**

Dianne Branch and Barrett Breeding presented the results of the 2015 financial report audit. Dianne Branch covered highlights on the financial statement and the statement footnotes. The Committee directed SPP staff to review the footnote describing SPP's Nature of Operations, focusing in the paragraph describing SPP's function as a Regional Entity under a delegation agreement with the North American Electric Reliability Corporation. Barrett Breeding presented the audit opinion letter and the management letter. Following this presentation, SPP staff was dismissed from the meeting as the Committee went into executive session with Barrett Breeding.

Following executive session, Sandra Bennett made a motion to accept the audit report as presented and recommend approval of the audit report to the SPP Board of Directors. The motion was seconded by Laura Kapustka and approved by unanimous voice vote.

The Committee next discussed continuing the engagement of BKD for the 2016 financial audit. The Committee requested SPP obtain the following information; i) quote from BKD for 2016 financial audit, ii) information from peer ISO/RTO groups on their auditors and favorable impressions, iii) investigate opportunities to engage SPP internal

audit department to reduce workload (and fees) from BKD, iv) address any changes SPP would like in the audit scope.

### **2016 Benefit Plan Funding**

Steve Osborn of Osborn, Carreiro & Associates presented actuary reports on both the SPP Retirement Plan and the SPP Post-retirement Healthcare Plan. Steve spent some time discussing the impact of reducing the discount rate by 50 basis points and adopting the IRS annuitant and non-annuitant tables for 2016.

SPP staff recommended \$5.38 million in contributions to the SPP Retirement Plan in 2016, consistent with the recommendation of Steve Osborn. The SPP 2016 budget included \$3.76 million in funding.

SPP staff recommended \$0.25 million in contributions to the SPP Post-retirement Healthcare Plan in 2016, consistent with the recommendation of Steve Osborn. The SPP 2016 budget did not include any funding for this plan.

Sandra Bennett made a motion to contribute \$5.38 million to the SPP Retirement Plan and \$0.25 million to the SPP Post-retirement Healthcare Plan during 2016. The motion was seconded by Laura Kapustka and approved by unanimous voice vote.

### **Internal Audits**

Harry Skilton discussed his participation in a recent meeting of the SPP Oversight Committee. A topic reviewed by the Oversight Committee is the work of SPP's Internal Audit department where the Committee reviews the work product. Two internal audit reports captured the attention of Mr. Skilton as the reports addressed aspects of credit and purchasing. The Finance Committee requested staff address the comments from the audit reports. Related to the audit of credit, the staff indicated the suggestion from Internal Audit to reconcile collateral balances against credit limits was implemented with the reconciliation occurring on a 6 month cycle. The suggestion regarding purchasing involved establishing a checklist for a responsible party to complete and deliver to Accounting prior to paying an invoice has not been implemented. The current controls already require affirmative direction from the responsible party prior to Accounting issuing payment.

### **Compliance Costs**

SPP staff discussed the background of a CIP compliance audit which was begun in 2013 by SERC Reliability Corp. and the impacts resulting from that audit. The audit highlighted several areas where SPP was weak in performing compliance activities. SPP has restructured internally and engage external resources to develop a plan to address the weaknesses. The Finance Committee was presented with an estimate of \$631,000 in one-time operating expenditures, \$1,552,000 in recurring operating expenditures, and \$1,000,000 in estimated fixed asset expenditures to address the issue. Each expenditure is unbudgeted though SPP management intends to incur those expenditures without requiring a change to the budget.

Larry Altenbaumer made a motion to approve the unbudgeted expenditures as presented without a change in the budget. The motion was seconded by Sandra Bennett and approved by unanimous voice vote.

Several utility members indicated they had an internal committee, generally lead by the CEO, that reviewed all audit and compliance related issues and responses; and strongly encouraged SPP to establish a similar group. Larry Altenbaumer indicated he would visit with the chair of the SPP Oversight Committee and suggest the Oversight Committee consider recommending establishment of a similar committee within SPP.

### **SPP Rate Structure**

The Committee discussed SPP rate structure for recovery of SPP's costs of operation, using historical 2015 data as a foundation. The Committee asked SPP staff to provide additional information on the value the financial only market participants add to the market compared to the profits they extract from the market. Additionally, SPP staff was asked to illustrate the impact of charging Schedule 1A costs to network service customers based on prior year energy flow while continuing to charge point-to-point customers based on reserved capacity.

### **Written Reports**

The Committee reviewed the written reports provided for the meeting.

### **Future Meetings**

The next meeting of the Finance Committee is scheduled for July 6, 2016 at the DFW Hyatt Regency hotel in Dallas, TX beginning at 7:30 a.m. and ending at 2:00 p.m. There will be a dinner meeting the night prior to the scheduled meeting.

Finance Committee  
April 5, 2016

There being no further business, Harry Skilton adjourned the meeting at 2:00 p.m.

Respectfully Submitted,

Thomas P. Dunn  
Secretary



Southwest Power Pool, Inc.  
FINANCE COMMITTEE  
**Action Items Status Report**  
April 5, 2016

	<b>Action Item</b>	<b>Date Originated</b>	<b>Status</b>	<b>Comments</b>
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2.	Prepare a graph of historical member deficit	April 5, 2016	New	
3.	Report each meeting on significant legal issues	April 5, 2016	New	
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Finance Committee  
April 5, 2016

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Southwest Power Pool
FINANCE COMMITTEE
Organizational Group Scope Statement

Purpose:

The purpose of the Finance Committee is to oversee all aspects of SPP's finances and financial operations, primarily insuring appropriate controls, policies and procedures are documented and adhered to allowing SPP to report accurate financial reports, access external capital as required, while not exposing the company or its membership to undue risks.

Scope of Activities:

The Committee, in discharging its oversight role, is empowered to study or investigate any matter of interest or concern that the Committee deems appropriate. In this regard, the Committee shall have the authority to retain outside legal, accounting or other advisors for this purpose, including the authority to approve the fees payable to such advisors and any other terms of retention. The Committee is directly responsible for oversight of the work (including both audit and non-audit services) of the independent financial, controls, and benefit plan auditors. The Committee will recommend engagement and compensation of the independent auditors to the SPP Board of Directors. The Committee shall be given full access to the corporation's accounting staff, Board of Directors, corporate executives and independent accountants as necessary to carry out these responsibilities.

The Committee will have responsibility to approve, monitor/review, recommend, and report, as follows:

Approve:

- Annually, significant financial and compliance policies which fall under the purview of the Committee
Annually, the basic assumptions used by SPP's actuary to determine the financial status and funding requirements of SPP's pension and post-retirement healthcare plans. These basic assumptions include, but are not limited to, discount rate, investment rate of return, rate of compensation change, and mortality tables utilized. The Committee will report these assumptions to the SPP Board of Directors.
Engage Investment Managers who have discretionary investment powers for any of the Company's benefit plan or other funds

Review/Monitor:

- The methodology of cost recovery to insure continuing equity for Members
Any legal matter that could have a significant impact on the corporation's financial statements
The adequacy of internal financial controls and the resolution of any identified material weaknesses or reportable conditions
The corporation's guidelines and policies with respect to risk assessment and risk management focusing on the corporation's major financial risk exposures and the steps management has taken to monitor and control such exposures
The structure of the Company's corporate liability insurance program, including review of retentions, insurance limits and exceptions, quality of underwriters, and activities of the broker(s) engaged to represent the Company to the insurance markets
Annually, the Investment Policy Statements for the Company's retirement plan and post-retirement healthcare plan to ensure the Investment Policy Statements continue to be appropriate for the goals of the plans

Deleted: the engagement, compensation and

Commented [TD1]: Removed "recommending engagement of the independent auditors for BOD approval"

Commented [TD2]: New language

Commented [TD3]: New sentence, replaced "Specific tasks include"

Moved down [1]: <#>Annually, the corporation's audited financial statements as the corporate record of financial results for the prior fiscal year. The Committee shall review and discuss with management and the independent auditors, prior to public dissemination, the corporation's annual audited financial statements with primary focus on the quality and integrity of the statements

Moved down [2]: <#>Annually, the engagement of independent auditors to audit the corporation's annual financial statements

Commented [TD7]: Prior language was review and provide input. New language is approve assumptions

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Moved down [3]: <#>Annually, contributions to SPP's pension and post-retirement healthcare plans

Commented [TD10]: New

Commented [TD11]: Removed references to 401(k) plan

Deleted: March 11

Revised July 6, 2016

- Annually, the performance of Investment Managers who have discretionary investment powers for the ~~pension and/or post-retirement healthcare plan assets~~
- Policies for management of the company's capitalization, financing and long-term contracts
- At least annually, the performance of the Committee and its members, including reviewing the compliance of the Committee with this Charter

Commented [TD12]: Specified the plans, may want to make this broader in case Committee engages Investment Manager for other plans

**Recommend to the Board of Directors:**

- ~~Annually, an operating budget, capital budget and each special budget for the upcoming fiscal year~~
- ~~Annually, rates to be charged under Schedule 1A and for the assessment of members~~
- Annually, the corporation's audited financial statements as the corporate record of financial results for the prior fiscal year. The Committee shall review and discuss with management and the independent auditors, prior to public dissemination, the corporation's annual audited financial statements with primary focus on the quality and integrity of the statements
- Annually, the engagement of independent auditors to audit the corporation's annual financial statements
- ~~Annually, contributions to SPP's pension and post-retirement healthcare plans~~
- As needed, issuance of notes to fund capital expenditures, liquidity, and other general corporate purpose

Commented [TD13]: Significantly shortened this versus the prior version

Commented [TD14]: New

Moved (insertion) [1]

Commented [TD15]: Changed from recommend to engage.

Moved (insertion) [2]

Commented [TD16]: Now approves contributions, prior was recommend to BOD

Moved (insertion) [3]

Commented [TD17]: New

**Report to the Board of Directors:**

- All actions taken by the Committee
- Any issues regarding the quality or integrity of the corporation's financial statements, compliance with legal or regulatory requirements, or the performance and independence of the corporation's independent **financial and controls** auditors
- Financial results with comparisons to budget
- Any other matters relevant to the Committee's discharge of its responsibilities

The Committee is not responsible for certifying the corporation's financial statements or guaranteeing the auditor's report. The fundamental responsibility for the corporation's financial statements and disclosures rests with management.

**Representation:**

The Finance Committee shall be comprised of ~~up to seven~~ members. ~~Up to three~~ representatives shall be members of the Board of Directors and one of these will be the chairperson. ~~Two~~ representatives from the Transmission Owning Member sector as nominated by the Corporate Governance Committee and two representatives from the Transmission Using Member sector as nominated by the Corporate Governance Committee. The Board of Directors shall appoint their representatives at the regular meeting of the Board of Directors immediately following the Annual Meeting of Members. Persons designated as representatives on the Finance Committee will continue to serve until their successors have been appointed. Where a vacancy occurs, the Corporate Governance Committee will fill the vacancy in accordance with SPP Bylaws.

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Commented [TD18]: This change will also require changes to the SPP Bylaws and a filing with the FERC

**Duration:**

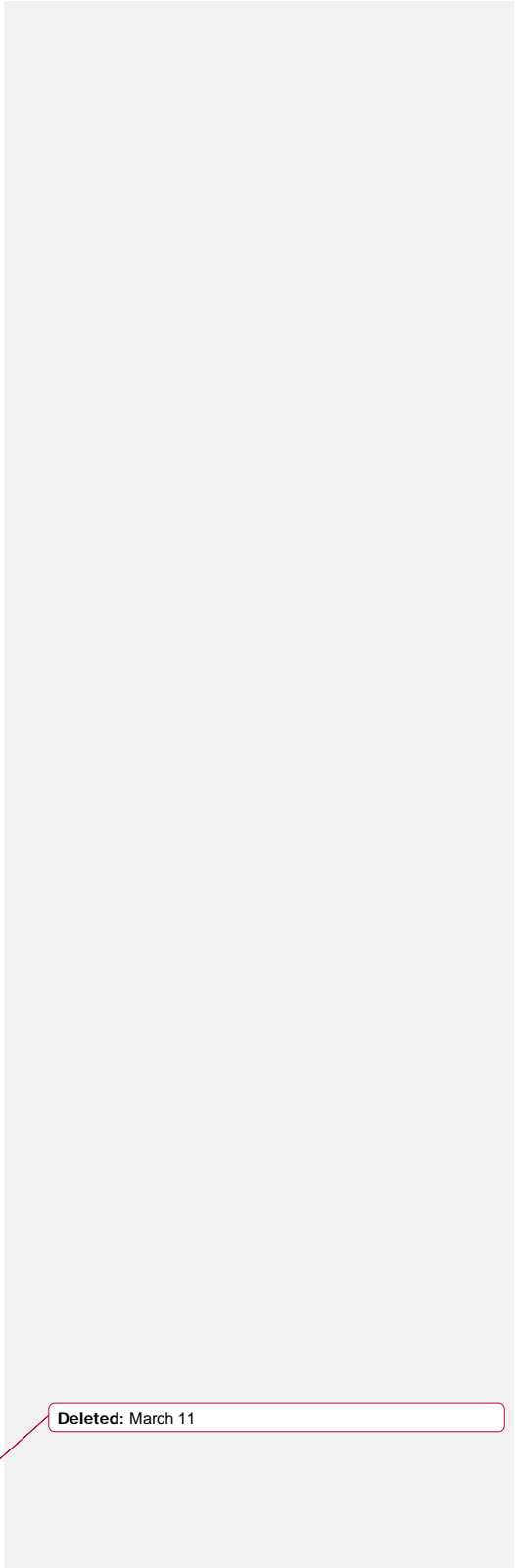
The Finance Committee is a permanent committee. The Committee shall meet a minimum of two times per fiscal year and at other times as called by the Chair. A quorum will constitute at least half of the members of the Committee but no less than three members. Proxies are allowed if reported to the Chair prior to the meeting. All meetings of the Finance Committee shall be open to all interested parties unless closed by the Chair of the Committee.

Deleted: March 11

Revised ~~July~~ 6, 2016



**Reporting:**  
The Finance Committee reports directly to the Board of Directors.



Revised ~~July 6, 2016~~

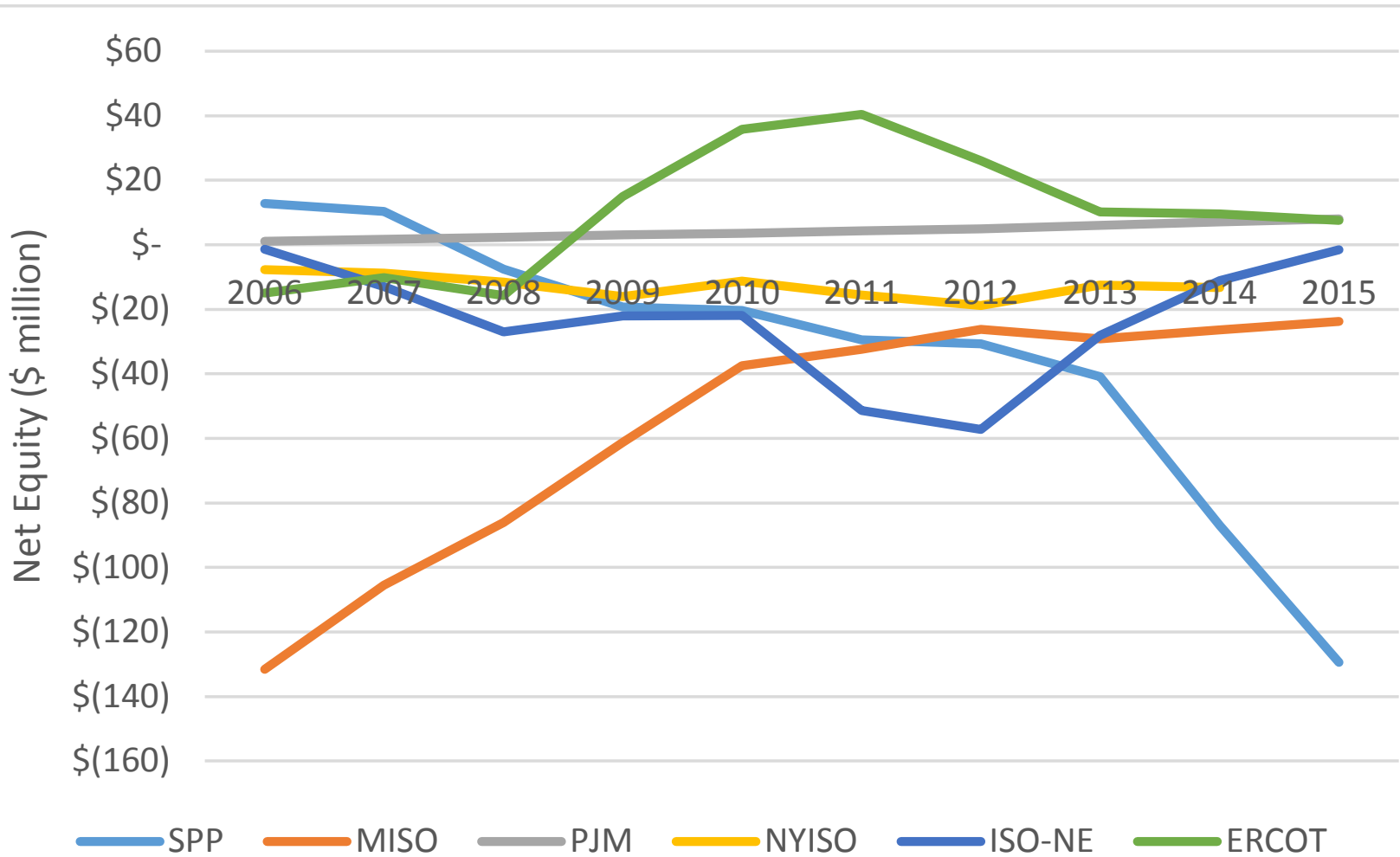
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# Finance Committee

Follow-up Items

# RTO Historical Net Equity



# Obligation to Fund the RSC

## SPP Bylaws

### 7.2 Regional State Committee

An RSC, to be comprised of one designated commissioner from each state regulatory commission having jurisdiction over an SPP Member, shall be established to provide both direction and input on all matters pertinent to the participation of the Members in SPP. This direction and input shall be provided within the context of SPP's organizational group meetings as well as Board of Directors meetings. The SPP Staff will assist the RSC in its collective responsibilities and requests by providing information and analysis. SPP will fund the costs of the RSC pursuant to an annual budget developed by the RSC and submitted to SPP as part of its budgeting process, which budget must ultimately be approved by the Board of Directors.



# Purchasing Verifications

## VERIFICATION OF RECEIPT OF GOODS AND/OR SERVICES

- The following describes those activities that occur for the verification of receipt of goods and/or services:
  - For goods, packing slips are verified by the business owner or employee(s) designated by the business owner to ensure the correct items were shipped and were received in good working order.
  - Packing slips are signed and dated by the business owner and are sent to the purchasing department via email to [receiving@spp.org](mailto:receiving@spp.org).
  - For services, the purchasing department performs an initial review of the invoice to verify the following the items:
    - Amounts (including hourly rates) and milestones payments (as applicable) are billed consistent with those amounts stipulated in the contract,
    - Supporting documentation for time and expenses is provided and adequately supports the invoiced amounts,
    - Services billed under the invoice falls within the term of the contract, and
    - Invoiced amount does not exceed the available purchase order balance.
    - Following verification of the prior items, the business owner verifies, in writing, verify that the services were satisfactorily performed

# Purchasing Verifications

## GOODS AND/OR SERVICES ARE RECEIVED INTO GREAT PLAINS

- The following describes those activities that occur for the receiving of goods and/or services into Great Plains for the corresponding purchase order:
  - The purchasing department ensures that packing slips have been verified by the business owner and/or services have been verified by the business owner via email or hand delivery of packing documentation.
  - The purchasing department receives the items into Great Plains for the corresponding purchase order.
  - Once items have been received into Great Plains for the corresponding purchase order, those items are available for payment processing by accounts payable personnel.

# Purchasing Verifications

## ADDITIONAL VERIFICATION PRIOR TO PAYMENT RELEASE

- Prior to signing the physical check or approving the electronic payment, the Controller (or Accounting Manager) reviews the receiving documentation maintained in the purchase order folder to ensure that the proper approvals were obtained (for services) and receiving documents were received (for physical goods) from the appropriate business owner. In the event there are questions about the integrity of the receiving documentation that cannot be resolved immediately, those payments are removed from check batch (unsigned) until the appropriate verification can be obtained. For ACH payments, the payment is removed from the batch until verification can be obtained.

# Charge 1A to NITS Based on Energy

## Increased 1A Costs (\$millions):

SPS	\$2.3
OG&E	\$0.9
AEP	\$0.8
WFEC	\$0.5
NPPD	\$0.4

## Decreased 1A Costs (\$millions):

KBPU	\$1.2
KCPL	\$1.0
Independence	\$0.7
Utilicorp	\$0.5
Basin	\$0.4

# Value of Financial Only MPs

The SPP MMU does not have any analysis that directly documents the value financial only activities bring to the markets.

The SPP MMU is not aware of any definitive value/benefit analysis completed in other markets.

The value assumption is driven by basic economic theory regarding greater competition and robust opportunity for hedging.

# Credit Security Refund Control Activities

- The Credit customer will request the return of excess secured credit through the Request Management System (RMS) by selecting the “Bank Info & Collateral” option. This option routes the request to the Senior Credit Risk Specialist and copies the other Credit department employees on the ticket. If the customer requests the refund through email or phone call, the Credit department employee will direct them to the RMS page to properly request the refund.
- The Senior Credit Risk Specialist (or one of the Credit Analysts in his/her absence) will review the Credit Management System (CMS) to determine that the customer has enough excess secured credit available to refund. If there is not enough excess secured credit available, the Credit department employee will inform the customer of the amount available.
- If there is enough excess secured credit available to meet the customer’s request, the Credit department employee will inform the Accounting department through the RMS ticket to refund the amount requested.

# Credit Security Refund Control Activities

- After informing the Accounting department of the amount of secured credit to refund, the Credit department employee will enter the refund in the Global Credit System (GCS). The Credit department employee will review CMS again after the change is made in GCS to ensure that the proper amount of secured credit displays in CMS.
- The GCS sends an email every day at 3:30 p.m. CST to all Credit department employees with all collateral changes that were made for that day. The Credit Analyst I (or Credit Analyst II in his/her absence) will review this list every day and compare to all RMS tickets received verifying that all requests agree with the GCS and CMS. If they do not agree, the Credit Analyst will meet with the Senior Credit Risk Specialist immediately to review the discrepancies.

# Credit Security Refund Control Activities

- If the collateral return involves the reduction to a Letter of Credit (LC), the Senior Credit Risk Specialist (or one of the Credit Analysts in his/her absence) will follow the same steps above. After the change is made in GCS, the Credit department employee that made the original change will immediately inform another Credit department employee of the change. This second employee will review the change made in the GCS and compare it to the LC amendment document received from the issuing bank to ensure the changes agree. If they do not agree, the Credit Analyst will meet with the Senior Credit Risk Specialist immediately to review the discrepancies.





# SPP CORPORATE RISK MANAGEMENT

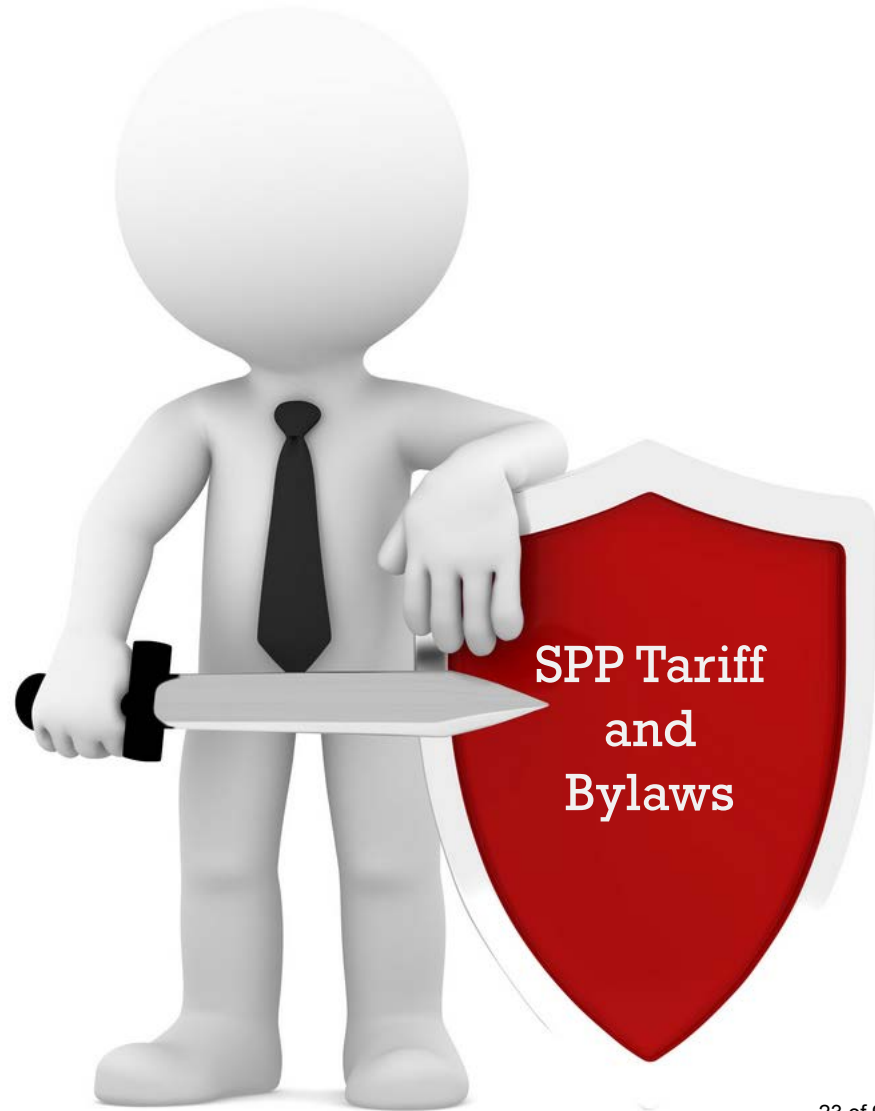
Presentation to SPP Finance Committee on July 6, 2016

# SPP Corporate Risk Management

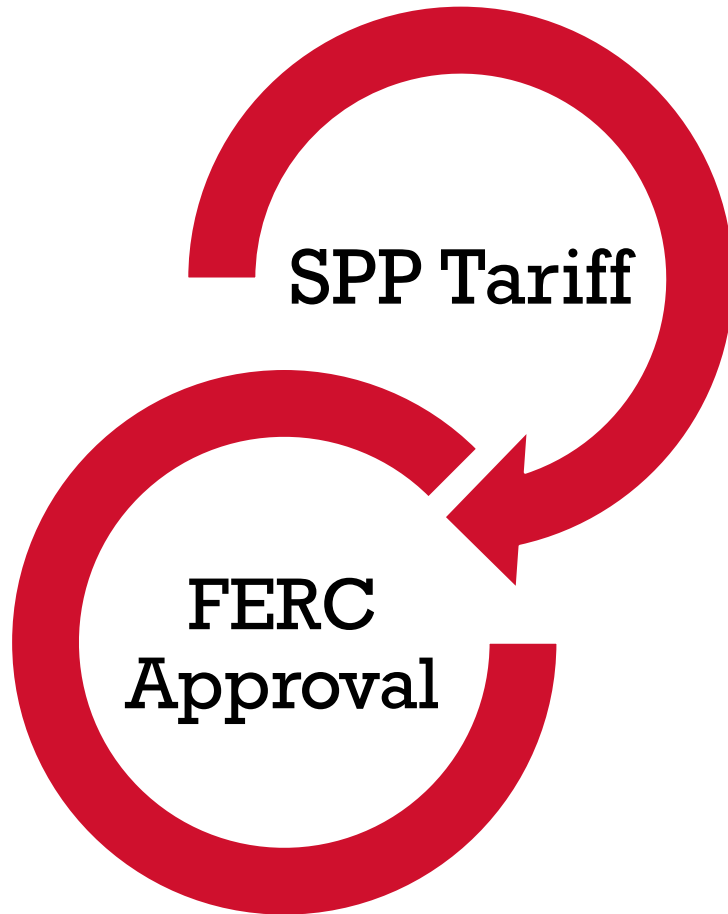


# Tariff & Bylaw Indemnifications

- Member to SPP
- Member to Member
- Directors, Officers, Employees
- Third Party Market Participants
- FERC Approved



# Other Tariff Risk Mitigations



- Revenue Neutrality
- Regulatory Oversight
- Commonality with other RTO/ISO

# Casualty Liability and Limits

**EIM \$40MM**

**Excess of AEGIS \$35MM**

**AEGIS \$35MM**



**Excess of PRIMARY and  
RETENTION**

**AUTO  
\$2MM**

**WORK COMP  
\$2MM**

**LIABILITY  
\$2MM**

# Excess Liability / Professional Svcs

- **AEGIS: Associated Electric & Gas Insurance Svcs**
  - Insures all ISO/RTOs
- **Defense Within Limits**
- **Designated Services Endorsement**
  - Tariff, Membership Agreement, SPA, OVEC...
  - Amends the term **PERSONAL INJURY** to include **ECONOMIC** injury while performing **DESIGNATED SERVICES**
  - Includes **FAILURE TO SUPPLY** endorsement

EIM  
\$40MM

AEGIS  
\$35MM

RETENTION  
\$2MM

# ISO/RTO Historical Claims

- AEGIS writes GL for all RTO/ISOs and D&O for 4
- Approximately 75 claims since late 1990s
  - Auto and Employment Practices
  - Power outage related
  - Contractual – Disputes with members
  - Overcharging/application of rates
  - Shutting off of equipment
- For all ~75, virtually **ALL** payments by AEGIS were for defense, not indemnity

# Case Study #1

- PPL Utilities asked PJM to remove line from service...PJM studied and granted permission
  - PJM's responsibility is to ensure remaining facilities are adequate for reliability
- During outage period, the line re-energized causing severe damage to PPL electrician
  - Electrician file civil complaint against PJM
- Lower court denied PJM's motion for summary judgement
- FERC declaratory order held PJM's tariff barred all liability for ordinary negligence
- Penn Superior Court agreed with limitation of liability and authority delegated to FERC



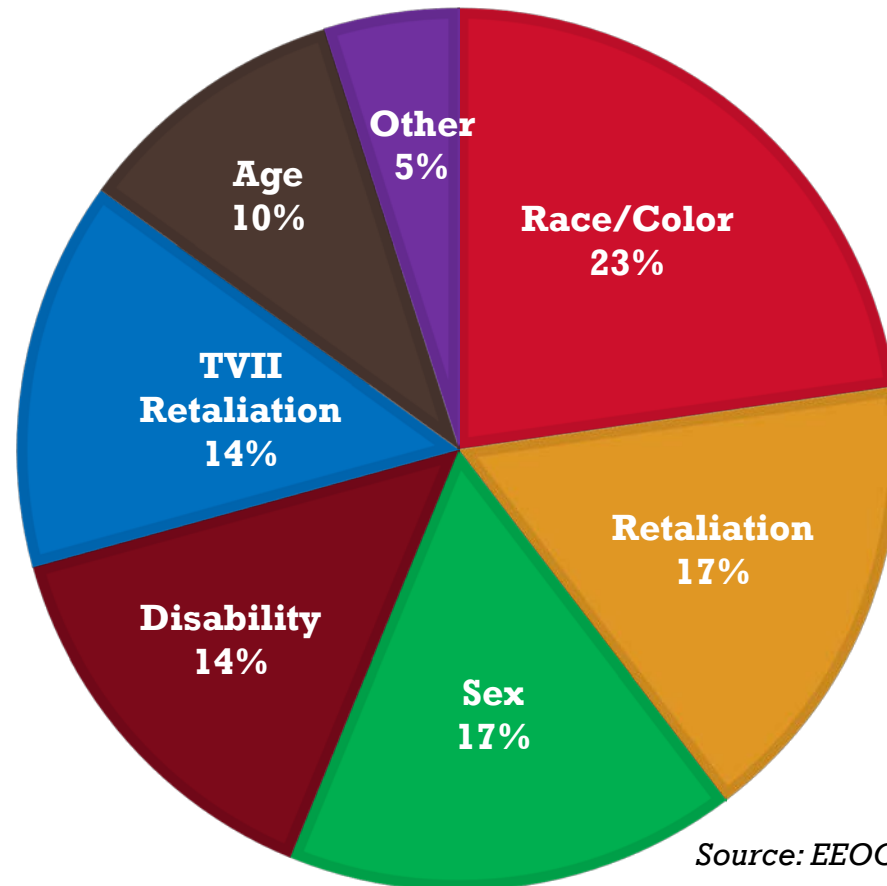
# Case Study #2

- In 2011, CAISO approved an upgrade from Imperial Irrigation District into CAISO footprint
  - IID completed construction in 2015 for \$35MM
- In 2013, San Onofre announced plant shut down
  - In 2014, CAISO restudied flows: 0MW imports from IID
- IID filed suit against CAISO claiming: anti-trust, breach of implied contract, and damages
- CA District Court ruled Filed Rate Doctrine also applies to allocations of transmission capacity but would allow hearing of IID's claim of "miscalculation" of capacity
- Court found no basis for anti-trust or breach

# Employment Practices Liability

- Purpose: to insure against claims made arising from the employment process
- Endorsement to the Excess Liability policy
- Retention: \$2MM
- Limits: \$10MM

2014 Arkansas EEOC Claims



Source: EEOC.gov

# Directors & Officers Liability

- Purpose: to insure against claims made while serving as an officer or independent director
- Chubb (A++) is the primary insurer; all secondary insurers **Follow Form**
- Three primary insuring clauses:
  - 1) **Side A**: Insurer provides direct indemnification of SPP's D&Os
  - 2) **Side B**: Insurer provides direct indemnification of SPP
  - 3) **Side C**: Insurer provides direct indemnification for claims made against SPP, Inc.

# Directors & Officers Liability

- Tower approach is a way to reduce premiums; secondary insurers are insulated by preceding limits
- D&O policy no longer shares coverage limits with EPL
- Side A retentions: \$0
- Side B & C retentions: \$15k
- Fiduciary policy \$5MM

Liberty \$10/\$60

RLI \$10/\$50

AIG \$10/\$40

ACE \$10/\$30

RSUI \$10/\$20

Travelers \$5MM

Chubb \$5MM

# D & O Typical Claims

Improper Removal  
of Director

Failure to Adhere to  
By-Laws

**NFP**

Decisions Resulting  
in  
Physical/Economic  
Damage

Breach of Fiduciary  
Duty

# Other Liabilities

- **Property Insurance**
  - CNA
  - Premium reduction from \$73k to \$50k for 2016-17
  - Coverage for all SPP assets: \$117MM
  - \$10k deductible
- **Aviation (Non-Owned)**
  - Aviation Insurance Managers
  - Premium: \$14k
  - Excess coverage: \$10MM



**Southwest Power Pool, Inc.**  
**FINANCE COMMITTEE**  
**Report from the SPP Staff**  
**July 6, 2016**  
**2017 Administrative Fee Rate Forecast**

**Organizational Roster**

The following persons are members of the Finance Committee:

Harry Skilton, Director	Larry Altenbaumer, Director
Laura Kapustka, Lincoln Electric	Mike Wise, Golden Spread
Sandra Bennett, AEP	Kelly Harrison, Westar

**Background**

SPP staff annually provides a forecast of the upcoming year administrative fee rate for Finance Committee review at its July meeting.

SPP staff has reviewed its year-to-date actual results through May 2016 and its full year forecast for the 2016 fiscal year with the SPP Finance Committee. At this time, SPP staff expects its 2016 Net Revenue Requirement (“NRR”) to exceed its 2016 Administrative Fee revenues by \$6.7 million. This under-recovery was not contemplated in the 2017 forecast and will need to be included in calculating the rate.

Reconciliation of changes to SPP’s 2016 NRR versus 2016 budget are detailed below:

Adjusted 2016 NRR (Budget)	\$150.5
Unfavorable Variances:	
Benefit Plan Funding	\$1.9
Incremental Staffing (Compliance/CIP)	\$0.8
Consulting (CIP)	\$0.5
Other	\$0.3
Favorable Variances:	
Maintenance	(\$1.0)
Travel and Administrative	(\$0.6)
Vacancy	(\$0.5)
Adjusted 2016 NRR (Forecast)	\$151.9

2016 Administrative Fee revenues are below budget due to 2015 average monthly peak loads being reported lower than the budget assumption. Reported 12 CP loads (excluding the IS) declined 3.7% in 2015 compared to 2014. SPP’s budget assumption was for flat reported 12 CP for SPP’s legacy utilities. IS reported 12 CP loads were 10% below SPP’s budget expectation. 2016 revenue from Administrative Fee is forecast to be \$5.4 million below budget.

SPP’s 2016 budget included forecast of the 2017 and 2018 administrative fee of 37cents/MWh and 38.9 cents/MWh, respectively. The 2017 forecast included in the 2016 budget document identified a NRR of \$148.5 million plus an additional \$2.2 million of capital expenditure funding for a total Adjusted NRR of \$150.7 million. SPP has identified the following adjustments to the 2017 Adjusted NRR which increases it to \$162.4 million:

2016 forecast under-recovery	+ \$6.7 million
Full year salary/benefits for 2016 incremental positions	+ \$1.4 million
20% capital expenditure funding	+ \$2.3 million
Pension and post-retirement healthcare funding	+ \$1.9 million
Vacancy at 5% (increase from 4%)	- \$0.6 million

SPP traditionally forecasts billing units to be equal to the current year billing unit forecast. Carrying this methodology into the 2017 forecast results in a billing unit assumption of 395 million MWh, a 12 million MWh reduction from the billing units used in the 2016 budget forecast for 2017.



Based on Adjusted NRR of \$162.4 million and forecast billing units of 395 million MWh, the early expectation for SPP's 2017 Administrative Fee rate is 41.1¢/MWh.





**Southwest Power Pool, Inc.**

**FINANCE COMMITTEE**

**July 6, 2016**

**2016 Financial & Benefit Plan Audit Engagements**

**2017-2019 Control Audit Engagement**

## **Organizational Roster**

The following persons are members of the Finance Committee:

Harry Skilton, Director  
Laura Kapustka, Lincoln Electric  
Sandra Bennett, AEP

Larry Altenbaumer, Director  
Mike Wise, Golden Spread  
Kelly Harrison, Westar

## **Background**

SPP annually engages Certified Public Accounting (CPA) firms to perform audits of its financial statements and employee benefit plans (401(k) Savings Plan, Retirement Plan and Medical Plan) and audits of SPP's controls environment. Historically, the continuing engagement of the current auditor is formally evaluated every three years by this Committee. The last evaluation was performed in 2013.

During the 2013 process, SPP distributed a request for proposal (RFP) for all of the regularly scheduled external audit engagements referenced above plus the SSAE 16 controls audit, recognizing that "bundling" external audits with one firm might produce cost savings. After completing the evaluation, it was determined that "bundling" the audits would not produce meaningful cost savings for SPP.

Ultimately, the Committee made the decision to retain the current auditors (BKD – financial, Thomas & Thomas – benefit plans) and engage KPMG to perform the SSAE 16 controls audit, after careful evaluation of the staff's analysis of the proposals. It should also be noted that many of the firms solicited during the 2013 process did not submit a proposal for the financial and/or plan audits. Most of the firms that submitted a proposal for the financial and benefit plan audits were small, local/regional firms. Of the larger firms solicited during the 2013 process, only one submitted a bid for the financial and plan audits. The proposed fees were over two times that of BKD's proposal for the financial audit and over three times that of Thomas & Thomas's audit for the benefit plans.

Additionally, during the 2013 RFP process, the Committee debated the requirement for audit partners to rotate periodically within the firms engaged to perform audits on behalf of SPP. In conclusion, the Committee voted to adopt an audit partner rotation policy consistent with that required by the Securities and Exchange Commission of their jurisdictional entities (i.e. every five years). To date, BKD, KPMG, and Thomas & Thomas have complied with that policy.

Staff is of the opinion that the performance of a formal RFP process would likely render results similar to that of 2013 as described in the preceding paragraphs.

## **Analysis**

### **Discussion with Other RTO/ISOs**

SPP visited with CFOs/Controller from the various RTO/ISOs over the past month. Key data is summarized in the table below.



ENTITY	Current Auditors	# of Years	Prior Auditor (if less than 5yrs)	Process for RFP	Process for Partner Rotation
ERCOT	Baker Tilly	1	Ernst Young	Formal bid process every six years	Every five years
NEISO	KPMG	10	n/a	Need is evaluated every three years	Every 6 years
MISO	Ernst & Young	10	n/a	Formal bid process every three years	No Requirement
CAISO	PWC	19	n/a	Last RFP was done in 2011. No set policy on frequency. The timing is usually at the discretion of the audit committee.	Every 6 years
PJM	PWC	16+	n/a	Need is evaluated every 5 years	Every 7 years
NYISO	KPMG	7	n/a	Last RFP was done in 2008. No set policy on frequency. The timing is usually at the discretion of the board.	Every 5 years

With the exception of ERCOT, all other RTO/ISOs have been with the same firm for over six years, with all but one of those having relationships for ten or more years. In my discussion with those entities, many emphasized the importance of relationships and the value of maintaining auditors who understand the industry and their business. They added that unless a material issue with the audit occurred or a significant decline in the level of customer service was experienced, they had no inclination to change auditors.

With respect to ERCOT, who recently changed their auditors from Ernst & Young to Baker Tilly, a top 15 national accounting and advisory firm, they cited greater industry experience of staff and a reduction in audit fees as selling points for the switch to Baker Tilly.

As noted in the table above, not all entities have a required frequency for issuing a formal RFP for the audit services, although many had a set frequency for evaluating the need to issue an RFP. Also, most all entities had some type of requirement to switch partners on the engagement, with numerous being mandated by the respective audit firms' policies.

In discussing the audit of their employee benefit plans, most all utilized small local/regional firms to perform those engagements, citing the significant expertise these firms possessed with these type audits.

**Fee Analysis**

As noted in the table below, we have seen modest increases in the combined audit fees for BKD and Thomas & Thomas over the last six years, averaging 3.0% year over year from 2010-2015. The combined fee history over the last six years for both BKD and Thomas & Thomas are as follows-

	2010	2011	2012	2013	2014	2015
Total Audit Fees	\$ 105,965	\$ 109,525	\$ 111,997	\$ 113,141	\$ 117,840	\$ 122,215
Annual Increase		3%	2%	1%	4%	4%
Average Annual Increase 2010-2015						3%

Based on discussion with audit partners from both BKD and Thomas & Thomas, projected audit fees for years 2016-2018 are as follows –



	2015	2016	2017	2018
Total Audit Fees	\$ 122,215	\$ 124,679	\$ 129,050	\$ 133,655
Annual Increase		2%	4%	4%
Average Annual Increase 2015-2018				4%

**Staffing Continuity**

Both firms have historically provided consistency in their staffing of the audits which provides greater efficiency in the execution of fieldwork. While it is impossible to get an entire engagement staff back year over year, SPP has benefited from having continuity of staff, especially in the more senior positions of the audit teams.

**SSAE16 Controls Audit**

KPMG has committed in their proposal to continue to dedicate their SPP experienced team for the examinations. Additionally, recognizing our desire to keep the cost of the SSAE 16 examinations down KPMG is proposing their estimated fees for the next three years as follows:

Deliverables	2017 fees	2018 fees	2019 fees
SSAE 16/SOC 1 type 2 examinations	\$303,000	\$310,000	\$317,000

This represents a modest 3.1% increase over the previous contract amount with an annual 2% escalation over the contract period. Lauren and I are in agreement that these costs are reasonable *and* commensurate with the market for such services at the quality level expected by the membership.

**Recommendation**

Based on the preceding background information and the proven track record for both firms' ability to meet our reporting deliverables over the years, it is staff's recommendation to retain both BKD and Thomas & Thomas as SPP's financial and plan auditors, respectively.

**Approved:** Finance Committee July 6, 2016  
 [Vote Count (for example: x For, y Against or Passed Unopposed)]

**Action Requested:** Approve Recommendation

Monthly Financial Reporting Package  
May 2016

# SPP Executive Summary – May 2016

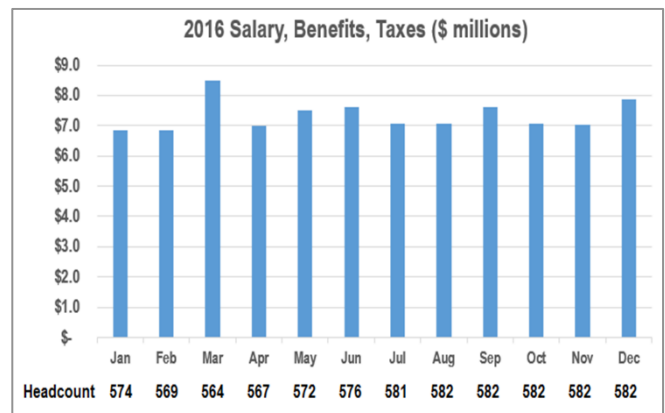
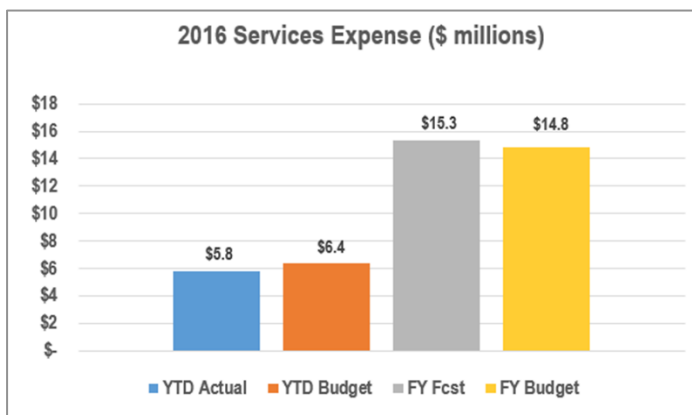
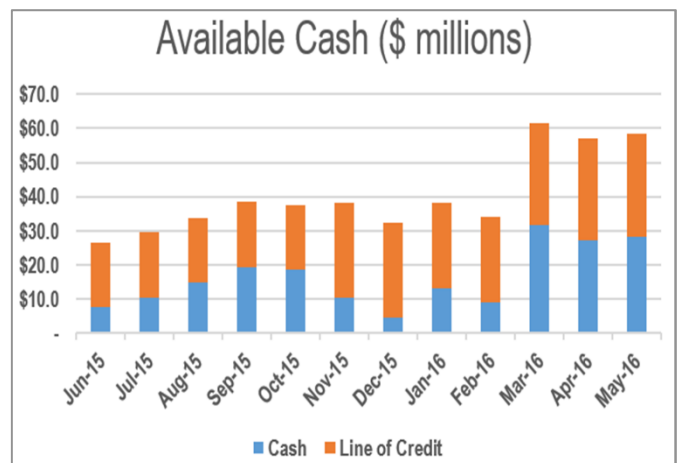
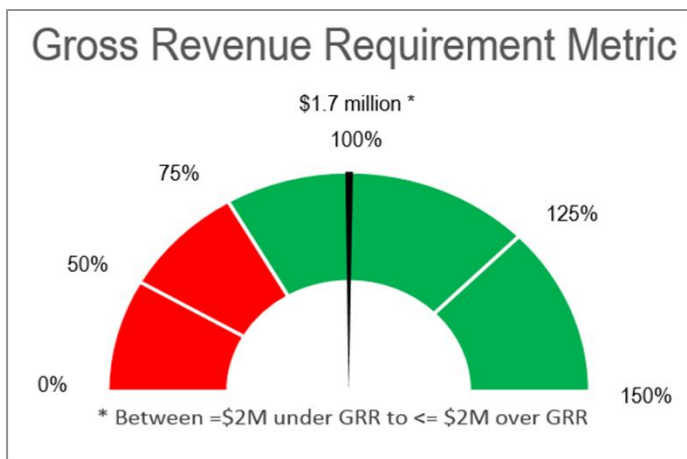
## 2016 Over / (Under) Recovery and Cash Balances

Cost Recovery (\$ millions)	2016 Forecast	2016 Budget	Fav/ (Unfav)
Gross Revenue Requirement (GRR) *	\$157.4	\$155.7	(\$1.7)
Net Revenue Requirement (NRR)	151.9	150.5	(1.4)
Admin Fee Revenue	145.2	150.4	(5.2)
Over / (Under) Recovery	(\$6.7)	(\$0.1)	(\$6.6)

\* GRR for HR metric excludes FERC fees and Regional Entity expenses

Note: The change over prior month is primarily related to lower maintenance expense forecast (details on page 3).

## Salary, Benefits, Taxes and Outside Services Expenses



**Southwest Power Pool**  
**2016 Financial Commentary**  
**May 31, 2016**  
*(in thousands)*

<b>Summary</b>				
	2016 FY Forecast	2016 FY Budget	Fav/(Unfav) Variance	
Revenues	\$176,143	\$182,079	(\$5,935)	(3.3%)
Expenses	218,543	217,092	(1,450)	(0.7%)
Net Income/(Loss)	<u>(\$42,399)</u>	<u>(\$35,013)</u>	<u>(\$7,386)</u>	(21.1%)

<b>Revenue</b>				
	2016 FY Forecast	2016 FY Budget	Fav/(Unfav) Variance	
Tariff Administration Service	\$145,242	\$150,660	(\$5,418)	(3.6%)
FERC Fees & Assessments	16,291	16,500	(209)	(1.3%)
NERC ERO Regional Entity Rev	9,380	10,432	(1,053)	(10.1%)
Miscellaneous Income	4,168	3,400	768	22.6%
Contract Services Revenue	499	498	1	0.1%
Annual Non-Load Dues	564	588	(24)	(4.1%)
Total Revenue	<u>\$176,143</u>	<u>\$182,079</u>	<u>(\$5,935)</u>	(3.3%)

Tariff Administrative Service trails budget as a result of differences in expected coincident peak load in 2015 for both IS (4.2 million MWh) and SPP legacy utilities (8.8 million MWh). Coincident peak load for 2015 is the basis for 2016 Schedule 1A revenues and was budgeted at 407 million MWh. The load forecast is 395 million MWh and results in an unfavorable revenue variance of \$5.4 million.

FERC Fees Assessments revenue reflects the current rate charged under Schedule 12 for 2016, which is 3% less than the rate assumed in the budget (\$0.064 compared to \$0.066).

<u>Millions</u>	<u>MWh</u>	<u>Rate</u>	<u>Revenue</u>
Budget	252.4	\$0.0657	\$16.5
Forecast	253.9	\$0.0643	\$16.3

NERC ERO Regional Entity revenue is based on Regional Entity (RE) budgeted expenditures and anticipated pass-thru expenses for SPP resources outside the RE. The primary drivers of the variance reside in compensation and outside services. Although the budget assumed the RE would be fully staffed at the beginning of the year, currently four positions are vacant. These positions are expected to remain open at least through June causing RE expenses and associated NERC revenues to trail budget. The net impact is \$0.3 million unfavorable.

MISO settlement agreement revenues were budgeted in Tariff Administrative Service account, but are recorded in Miscellaneous Income (\$0.3 million). Engineering studies revenue exceeds budget to date and also contributes to the favorable variance (\$0.3 million).

**Southwest Power Pool**  
**2016 Financial Commentary**  
**May 31, 2016**  
*(in thousands)*

<b>Expense</b>				
	2016 FY Forecast	2016 FY Budget	Fav/(Unfav) Variance	
Salary & Benefits	\$88,027	\$85,153	(\$2,874)	(3.4%)
Assessments & Fees	17,000	17,000	(1)	(0.0%)
Communications	3,979	4,091	112	2.7%
Maintenance	15,803	16,847	1,044	6.2%
Outside Services (Including RSC)	15,557	15,066	(491)	(3.3%)
Administrative & Leases	4,774	5,198	424	8.2%
Travel & Meetings	3,187	3,433	245	7.1%
Depreciation & Amortization	59,106	59,736	629	1.1%
Other Expenses	11,109	10,569	(540)	(5.1%)
Total Expense	<u>\$218,543</u>	<u>\$217,092</u>	<u>(1,450)</u>	<u>(0.7%)</u>

The forecast for Pension and Retiree Healthcare Benefits expense was adjusted to reflect the most recent actuarial calculations for pension costs. This represents an increase of \$2.4 million over the budget, which was based on the 2015 actuarial calculations.

As part of SPP's compliance demonstration project, two separate firms were selected to provide independent assessments of SPP's internal compliance program. After careful analysis of the recommendations of each firm, 11 incremental out-of-budget positions were vetted and approved by SPP's officer team for inclusion in the forecast beginning mid-year 2016. Although headcount and compensation were added to the forecast for these positions, a material increase is not recognized in Salaries due to the fact that the vacancy run-rate is 5% as compared to the budgeted rate of 4%.

The variance in Outside Services is attributed to various offsetting factors. Unfavorable variances are related to additional costs associated with staff augmentation and consulting services in Compliance, IT and PMO departments primarily related to CIP (critical infrastructure protection) compliance. Costs related to the RCAR (Regional Cost Allocation Review) are forecasted to be \$0.5 million as compared to \$0.8 million anticipated in the budget which partially offsets the unfavorable variances. Also contributing a favorable variance are Regional Entity expenses which trail budget by \$0.3 million.

Procurement of budgeted hardware and software (IT Foundation refresh and various PRPC capital projects) has been delayed due to a shift in priorities driven by CIP initiatives and the SERC audit. As a result, the forecast for the associated Maintenance expense has been reduced in accordance with the revised projected timing of the procurement of these assets.

Other Income / Expense includes interest expense, capitalized interest, investment income, SWAP valuation adjustments, and various other income and expense amounts. Due to the unpredictability, the only amounts budgeted in this category include interest expense and capitalized interest. The current variance is primarily due to the fluctuation in the swap valuation.

**Southwest Power Pool**  
**Monthly Financial Overview**  
**May 31, 2016**  
*(in thousands)*

	Actual Jan-16	Actual Feb-16	Actual Mar-16	Actual Apr-16	Actual May-16	Fcst Jun-16	Fcst Jul-16	Fcst Aug-16	Fcst Sep-16	Fcst Oct-16	Fcst Nov-16	Fcst Dec-16	FY 2016 Fcst	FY 2016 Budget	Variance Fav/(Unfav)	FY 2015 Actual	Variance Fav/(Unfav)
<b>Income</b>																	
Tariff Administrative Service Fees & Assessments	\$12,294	\$11,208	\$12,035	\$11,792	\$12,229	\$12,149	\$12,205	\$12,419	\$12,234	\$12,213	\$12,227	\$12,239	\$145,242	\$150,660	(\$5,418)	\$143,826	\$1,415
Contract Services Revenue	40	40	42	42	42	42	42	42	42	42	42	42	499	498	1	975	(476)
Miscellaneous Income	348	370	369	402	466	363	255	255	575	255	255	255	4,168	3,400	768	6,040	(1,872)
<b>Total Income</b>	<b>15,492</b>	<b>13,794</b>	<b>14,441</b>	<b>14,462</b>	<b>14,046</b>	<b>14,521</b>	<b>14,725</b>	<b>15,171</b>	<b>15,246</b>	<b>14,612</b>	<b>14,553</b>	<b>15,080</b>	<b>176,143</b>	<b>182,079</b>	<b>(5,935)</b>	<b>178,733</b>	<b>(2,589)</b>
<b>Expense</b>																	
Salary & Benefits	6,833	6,856	8,493	7,002	7,521	7,607	7,075	7,075	7,613	7,052	7,033	7,868	88,027	85,153	(2,874)	84,043	(3,984)
Employee Travel	130	139	162	192	190	207	207	200	210	211	200	191	2,239	2,449	210	1,903	(336)
Administrative	187	238	280	560	233	677	438	254	283	907	382	335	4,774	5,198	424	4,928	154
Assessments & Fees	1,417	1,417	1,417	1,417	1,417	1,417	1,417	1,417	1,417	1,417	1,417	1,417	17,000	17,000	(2)	13,939	(3,061)
Meetings	108	44	61	71	77	62	118	60	62	152	106	26	948	983	35	825	(123)
Communications	324	337	323	317	305	337	337	337	337	341	341	341	3,979	4,091	112	3,758	(220)
Leases	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	123	123
Maintenance	1,056	1,067	1,171	1,223	1,163	1,216	1,208	1,501	1,544	1,552	1,544	1,558	15,803	16,847	1,044	13,553	(2,250)
Services	586	1,522	1,347	1,171	1,140	1,148	1,500	1,300	1,277	1,499	1,308	1,505	15,304	14,803	(501)	12,329	(2,975)
Regional State Committee	10	24	21	20	25	22	22	22	22	22	22	22	253	263	10	200	(53)
Depreciation & Amortization	4,896	4,799	4,747	4,534	5,035	4,987	5,033	5,046	5,068	5,056	5,061	4,844	59,106	59,736	629	59,285	179
<b>Total Expense</b>	<b>15,547</b>	<b>16,442</b>	<b>18,022</b>	<b>16,507</b>	<b>17,107</b>	<b>17,680</b>	<b>17,355</b>	<b>17,212</b>	<b>17,833</b>	<b>18,208</b>	<b>17,414</b>	<b>18,107</b>	<b>207,433</b>	<b>206,523</b>	<b>(910)</b>	<b>194,886</b>	<b>(12,547)</b>
<b>Other Income/(Expense)</b>																	
Investment Income	3	3	39	3	4	-	-	-	-	-	-	-	52	-	52	1,768	(1,716)
Interest Expense	(811)	(819)	(817)	(949)	(1,003)	(926)	(903)	(902)	(902)	(886)	(885)	(885)	(10,690)	(10,731)	41	(10,623)	(67)
Capitalized Interest	-	-	-	17	-	34	-	-	46	-	-	59	156	162	(6)	102	54
Change in Valuation of Swap	-	-	(919)	-	-	-	-	-	-	-	-	-	(919)	-	(919)	(726)	(194)
Other Income/Expense	(82)	(2)	87	26	37	-	-	-	-	-	-	-	64	-	64	(1,097)	1,161
Unrealized Gain on Investment	(303)	(6)	396	26	115	-	-	-	-	-	-	-	228	-	228	(2,011)	2,239
<b>Net Other Income (Expense)</b>	<b>(1,193)</b>	<b>(824)</b>	<b>(1,215)</b>	<b>(878)</b>	<b>(848)</b>	<b>(892)</b>	<b>(903)</b>	<b>(902)</b>	<b>(856)</b>	<b>(886)</b>	<b>(885)</b>	<b>(826)</b>	<b>(11,109)</b>	<b>(10,569)</b>	<b>(540)</b>	<b>(26,317)</b>	<b>15,208</b>
<b>Net Income (Loss)</b>	<b>(\$1,248)</b>	<b>(\$3,472)</b>	<b>(\$4,796)</b>	<b>(\$2,923)</b>	<b>(\$3,909)</b>	<b>(\$4,051)</b>	<b>(\$3,532)</b>	<b>(\$2,943)</b>	<b>(\$3,442)</b>	<b>(\$4,483)</b>	<b>(\$3,746)</b>	<b>(\$3,853)</b>	<b>(\$42,399)</b>	<b>(\$35,013)</b>	<b>(\$7,386)</b>	<b>(\$42,470)</b>	<b>\$71</b>
<b>2016 Headcount</b>																	
Approved Budgeted Positions	600	600	600	600	600	599	599	599	599	599	599	599	599				
Forecast Including Vacancy	574	569	564	567	572	572	577	577	578	580	580	581	581				
Total Forecast Positions	604	605	613	615	612	610	610	610	610	610	610	611	611				
<b>Over / (Under) Budget</b>	<b>4</b>	<b>5</b>	<b>13</b>	<b>15</b>	<b>12</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>12</b>	<b>12</b>				
<b>Headcount Vacancy</b>	<b>5%</b>	<b>6%</b>	<b>8%</b>	<b>8%</b>	<b>7%</b>	<b>6%</b>	<b>6%</b>	<b>6%</b>	<b>5%</b>	<b>5%</b>	<b>5%</b>	<b>5%</b>	<b>5%</b>				
NRR Over / (Under) Recovery	\$3,857	\$1,183	(\$5,437)	\$1,390	\$1,553	(\$5,644)	\$1,450	\$1,620	(\$3,885)	\$644	\$1,257	(\$4,672)	(\$6,684)				



**Southwest Power Pool**  
**Current Month Financial Overview**  
**May 31, 2016**  
*(in thousands)*

	Current Month Compared to Forecast			YTD Actual Compared to YTD Budget			FY Forecast Compared to FY Budget		
	May-2016 Actual	May-2016 Forecast	Variance Fav/(Unfav)	May-2016 Actual	May-2016 Budget	Variance Fav/(Unfav)	FY 2016 Forecast	FY 2016 Budget	Variance Fav/(Unfav)
<b>Income</b>									
Tariff Administrative Service	\$12,229	\$12,259	(\$30)	\$59,557	\$62,775	(\$3,218)	\$145,242	\$150,660	(\$5,418)
Fees & Assessments	1,310	1,944	(634)	10,518	11,835	(1,316)	26,234	27,520	(1,286)
Contract Services Revenue	42	42	(0)	206	205	1	499	498	1
Miscellaneous Income	466	275	190	1,954	1,444	510	4,168	3,400	768
<b>Total Income</b>	<b>14,046</b>	<b>14,519</b>	<b>(473)</b>	<b>72,235</b>	<b>76,258</b>	<b>(4,023)</b>	<b>176,143</b>	<b>182,079</b>	<b>(5,935)</b>
<b>Expense</b>									
Salary & Benefits	7,521	7,246	(275)	36,704	35,316	(1,389)	88,027	85,153	(2,874)
Employee Travel	190	200	11	813	1,016	203	2,239	2,449	210
Administrative	233	281	48	1,498	2,000	503	4,774	5,198	424
Assessments & Fees	1,417	1,417	(0)	7,083	7,083	(0)	17,000	17,000	(2)
Meetings	77	97	20	361	424	63	948	983	35
Communications	305	337	32	1,606	1,705	98	3,979	4,091	112
Maintenance	1,163	1,174	10	5,681	7,019	1,339	15,803	16,847	1,044
Services	1,140	1,024	(116)	5,767	6,350	583	15,304	14,803	(501)
Regional State Committee	25	22	(3)	100	110	10	253	263	10
Depreciation & Amortization	5,035	4,966	(69)	24,011	24,640	629	59,106	59,736	629
<b>Total Expense</b>	<b>17,107</b>	<b>16,763</b>	<b>(344)</b>	<b>83,624</b>	<b>85,663</b>	<b>2,039</b>	<b>207,433</b>	<b>206,523</b>	<b>(910)</b>
<b>Other Income/(Expense)</b>									
Investment Income	4	-	4	52	-	52	52	-	52
Interest Expense	(1,003)	(926)	(77)	(4,400)	(4,441)	41	(10,690)	(10,731)	41
Capitalized Interest	-	-	-	17	22	(6)	156	162	(6)
Change in Valuation of Swap	-	-	-	(919)	-	(919)	(919)	-	(919)
Other Income/Expense	37	-	37	64	-	64	64	-	64
Unrealized Gain on Investment	115	-	115	228	-	228	228	-	228
<b>Net Other Income (Expense)</b>	<b>(848)</b>	<b>(926)</b>	<b>78</b>	<b>(4,958)</b>	<b>(4,418)</b>	<b>(540)</b>	<b>(11,109)</b>	<b>(10,569)</b>	<b>(540)</b>
<b>Net Income (Loss)</b>	<b>(\$3,909)</b>	<b>(\$3,169)</b>	<b>(\$739)</b>	<b>(\$16,348)</b>	<b>(\$13,823)</b>	<b>(\$2,525)</b>	<b>(\$42,399)</b>	<b>(\$35,013)</b>	<b>(\$7,386)</b>
Headcount	572	575	(3)	572	600	(28)	581	599	(18)

**Southwest Power Pool**  
**Balance Sheet**  
**May 31, 2016**  
*(in thousands)*

	5/31/2016	12/31/2015	Net Change
<b>ASSETS</b>			
<b>Current Assets</b>			
Cash & Equivalents	\$85,822	\$42,003	\$43,820
Restricted Cash Deposits	259,595	196,918	62,677
Accounts Receivable (net)	23,623	39,789	(16,166)
Other Current Assets	15,676	8,420	7,255
<b>Total Current Assets</b>	<b>\$384,717</b>	<b>\$287,131</b>	<b>\$97,586</b>
Total Fixed Assets	116,730	136,480	(19,750)
Total Other Assets	2,596	6,051	(3,455)
Investments	9,882	9,352	530
<b>Total Assets</b>	<b>\$513,925</b>	<b>\$439,014</b>	<b>\$74,911</b>
<b>Liabilities &amp; Equity</b>			
<b>Liabilities</b>			
<b>Current Liabilities</b>			
Accounts Payable (net)	\$19,542	\$30,609	(11,067)
Customer Deposits	260,854	196,918	63,935
Current Maturities of LT Debt	24,065	21,944	2,121
Other Current Liabilities	56,398	44,092	12,306
Line of Credit	-	2,000	(2,000)
Deferred Revenue	4,444	5,318	(874)
<b>Total Current Liabilities</b>	<b>365,303</b>	<b>300,881</b>	<b>64,422</b>
<b>Long Term Liabilities</b>			
US Bank Mortgage - 2027	3,033	3,135	(103)
4.82% Series-A Senior Notes - 2042	27,889	28,025	(136)
4.82% Series-B Senior Notes - 2042	32,537	32,696	(159)
3.55% Series-C Senior Notes - 2024	49,000	50,750	(1,750)
3.00% Series-D-1 Senior Notes - 2024	35,000	36,250	(1,250)
3.25% Series-D-2 Senior Notes - 2024	37,500	38,750	(1,250)
3.8% Series-E-1 Senior Notes - 2025	37,000	37,000	-
Floating Series Regions Note - 2024	30,000	-	30,000
Capital Lease Obligation	4,774	5,674	(900)
Other Long Term Liabilities	37,652	35,267	2,386
<b>Total Long Term Liabilities</b>	<b>294,385</b>	<b>267,548</b>	<b>26,837</b>
Net Income	(16,348)	(42,470)	26,123
Members' Equity	(129,415)	(86,945)	(42,470)
<b>Total Members' Equity</b>	<b>(145,763)</b>	<b>(129,415)</b>	<b>(16,348)</b>
<b>Total Liabilities &amp; Equity</b>	<b>\$513,925</b>	<b>\$439,014</b>	<b>\$74,911</b>

**Southwest Power Pool  
Headcount Analysis  
May 31, 2016**

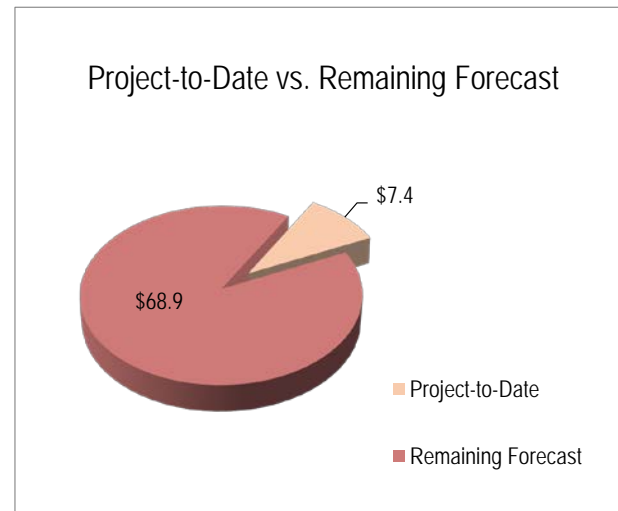
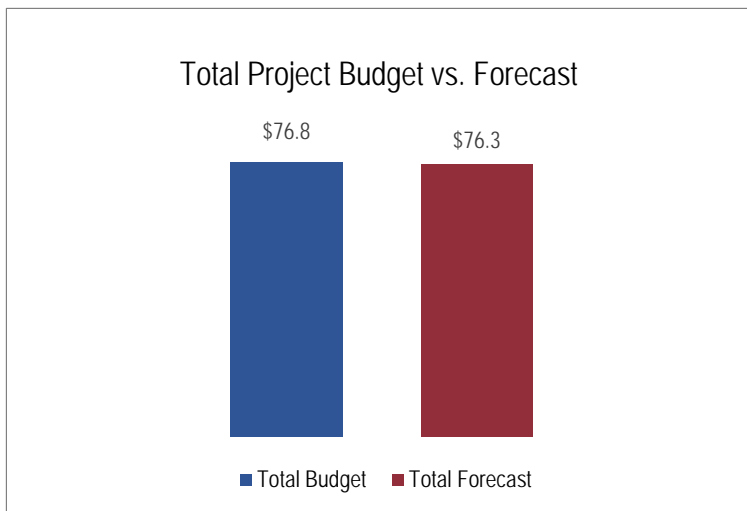
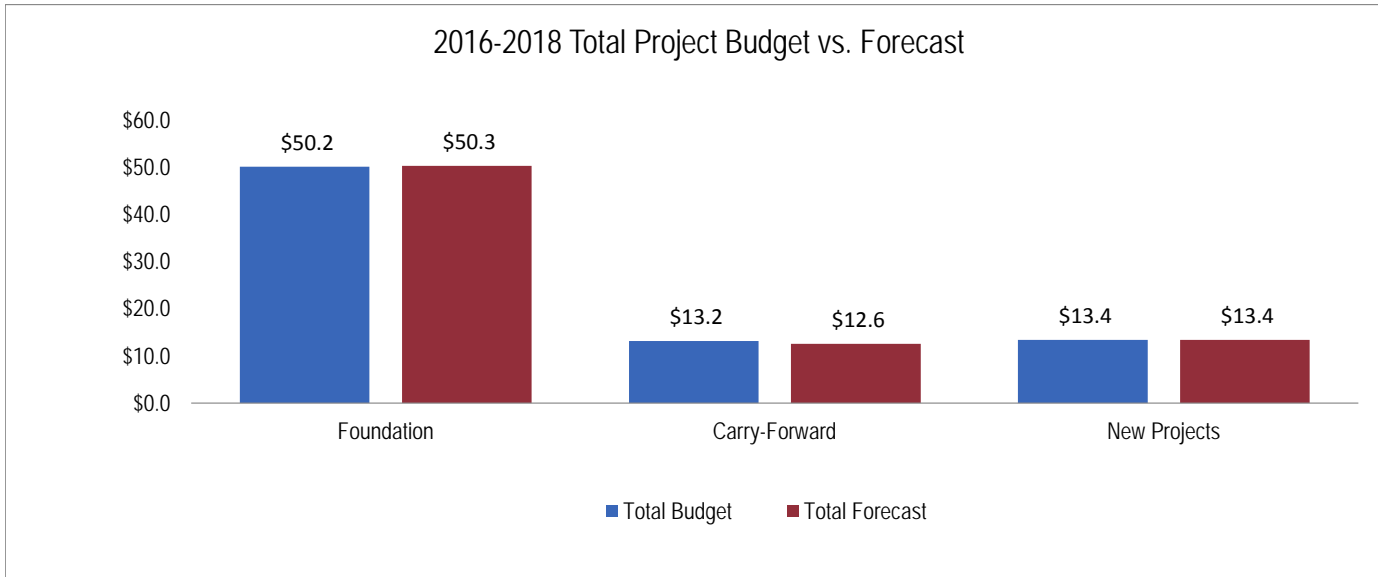
	Current Month Actual vs. Budget			Year End Forecast vs. Budget		
	Actual May-2016	Budget May-2016	Over/(Under) Budget	2016 Forecast *	2016 Budget	Over/(Under) Budget
Officers	11	11	0	11	11	0
Accounting	10	11	(1)	11	11	0
Credit	4	4	0	5	4	1
Settlements	23	24	(1)	23	24	(1)
Administration	48	50	(2)	50	50	0
Interregional Affairs	2	4	(2)	2	4	(2)
Compliance	10	11	(1)	13	11	2
Project Management	13	14	(1)	13	14	(1)
Training	11	11	0	11	11	0
Customer Service	8	9	(1)	9	9	0
Process Management	3	4	(1)	0	3	(3)
Internal Audit	6	6	0	7	6	1
Process Integrity	53	59	(6)	55	58	(3)
Operations	156	161	(5)	160	161	(1)
Information Technology	139	146	(7)	153	146	7
Engineering	68	76	(8)	78	76	2
Regulatory Policy & General Counsel	27	25	2	26	25	1
Corporate Services	30	28	2	30	28	2
Market Monitoring	12	15	(3)	15	15	0
Market Design	7	7	0	7	7	0
Interregional Relations	3	3	0	3	3	0
Communications & Gov't Affairs	5	5	0	6	5	1
SPP Regional Entity	24	28	(4)	28	28	0
Open Positions / Adjustments	0	(3)	3	(30)	(3)	(27)
<b>Total Headcount</b>	<b>572</b>	<b>600</b>	<b>(28)</b>	<b>581</b>	<b>599</b>	<b>(18)</b>

**Headcount changes:**

2016 Approved positions	602
Unidentified positions to be eliminated	(3)
<b>2016 Budgeted positions</b>	<b>599</b>
Incremental out-of-budget positions	11
Remaining unidentified eliminations	2
Operations reduction (2017)	(1)
<b>2016 Current total positions</b>	<b>611</b>
Vacancy factor (open positions)	(30)
<b>2016 Forecast including vacancy</b>	<b>581</b>

\* The headcount forecast includes vacancy. The budget included a reduction of 3 unidentified positions by year end; however only one of these positions has been identified to date. Total forecast positions is 611 as compared to the budget of 599. Operations committed to reducing headcount by 2 positions beginning in 2017 and identified one of the positions effective in June 2016. This is the result of not backfilling for a position who was promoted into an open requisition and reduces the 2016 headcount to 611. Total positions by year end should be 609 instead of 611 once the additional positions are identified and removed.

Southwest Power Pool  
 2016-2018 Capital Project Forecast  
 May 31, 2016  
 (in millions)



**Southwest Power Pool**  
**2016-2018 Capital Project Forecast**  
**May 31, 2016**  
*(in thousands)*

	Prior Year(s)	2015 Actual	2016 Forecast	2017 Forecast	2018 Forecast	Total Forecast	Total Budget	Over / (Under)	
<b><u>2016 New Projects</u></b>									
EMS Software & OS Upgrade	\$ -	\$ -	\$ -	\$ 2,782	\$ 2,380	\$ 5,162	\$ 5,162	\$ (0)	0%
TTSE Dispatcher Training Simulator			210	3,207	400	3,817	3,817	(0)	0%
PMU Data Exchange			446	116	1,326	1,888	1,888	(0)	0%
Z2 Crediting P2 and P3			349	200	200	749	749	(0)	0%
Identity and Access Management System			208	361	100	669	692	(23)	-3%
Local Reliability Assessment			-	500	-	500	500	-	0%
2-Factor Authentication (Part 2 of 2 - Software Development)			194	-	-	194	194	(0)	0%
FERC 676-H NITS Web Oasis Modification			116	-	-	116	108	7	7%
Liferay Portal Replacement			83	17	-	100	100	(0)	0%
Circuit Redesign			94	8	8	110	96	14	14%
ICCP Software & OS Upgrade			-	35	27	62	62	0	1%
Voltage Stability Tools			10	20	-	30	30	0	0%
ProLaw Upgrade			23	1	1	24	24	0	1%
<b>Total 2016 New Projects</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,733</b>	<b>\$ 7,246</b>	<b>\$ 4,442</b>	<b>\$ 13,421</b>	<b>\$ 13,422</b>	<b>\$ (1)</b>	
<b><u>Carryover Projects</u></b>									
Enhanced Combined Cycle - Gas Day <sup>(1)</sup>	\$ 1,301	\$ 436	\$ 4,598	\$ 570	\$ -	\$ 6,905	\$ 7,708	\$ (803)	-10%
Transmission Settlements Upgrade ETSE3	-	-	-	2,936	900	3,836	3,836	-	0%
Z2 Crediting P1 <sup>(2)</sup>	351	1,247	227	-	-	1,825	1,643	182	11%
<b>Total Carryover Projects</b>	<b>\$ 1,652</b>	<b>\$ 1,683</b>	<b>\$ 4,824</b>	<b>\$ 3,506</b>	<b>\$ 900</b>	<b>\$ 12,566</b>	<b>\$ 13,188</b>	<b>\$ (622)</b>	

Notes:

(1) A portion of contingency expense was removed from the Enhanced Combined Cycle - Gas Day project forecast based on executed SOWs at this point. This change is the main driver in the favorable variance to budget.

(2) The project for Z2 Crediting P1 was established in early 2012 at an estimated cost of \$295. Ongoing challenges in establishing requirements resulted in an impairment loss (\$351) and additional expense to settle with the previous vendor in 2015. A new vendor was selected to move forward with the project at a total projected cost of approximately \$1.5 million.

**Southwest Power Pool**  
**2016-2018 Capital Project Forecast**  
**May 31, 2016**  
*(in thousands)*

	Prior Year(s)	2015 Actual	2016 Forecast	2017 Forecast	2018 Forecast	Total Forecast	Total Budget	Over / (Under)	
<b>Foundation</b>									
IT Foundation <sup>(3)</sup>	\$ -	\$ -	\$ 11,050	\$ 14,675	\$ 11,005	\$ 36,730	\$ 35,160	\$ 1,570	4%
Other (Non-IT) Department Foundation			2,200	1,230	1,130	4,560	4,560	0	0%
Ops Foundation <sup>(4)</sup>			1,084	3,118	3,043	7,245	8,494	(1,249)	-15%
Facilities Foundation			723	220	250	1,193	1,193	(0)	0%
Settlements Foundation <sup>(5)</sup>			72	250	250	572	750	(178)	-24%
<b>Total Foundation</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 15,128</b>	<b>\$ 19,493</b>	<b>\$ 15,678</b>	<b>\$ 50,299</b>	<b>\$ 50,157</b>	<b>\$ 142</b>	
<b>Total Capital Project Expense</b>	<b>\$ 1,652</b>	<b>\$ 1,683</b>	<b>\$ 21,686</b>	<b>\$ 30,245</b>	<b>\$ 21,020</b>	<b>\$ 76,286</b>	<b>\$ 76,767</b>	<b>\$ (481)</b>	<b>-1%</b>

3) The timing of receipt/recording of IT equipment purchases causes a variance of approximately \$1.2 million in the IT Foundation budget for 2016, however these purchases were expected to be received in 2015 and were included in the 2015 budget. These purchases are now included in the 2016 forecast. The 2015 budget also included approximately \$1.6 million for hardware/software foundation costs primarily related to data storage and technology refresh that was deferred to 2016 due to resource constraints and/or other timing issues. Although these specific activities are still planned for 2016, the forecast does not reflect the additional \$1.6 million spend at this time. The pipeline of foundation projects is under review to determine whether or not other foundation projects will have to be delayed in order to accommodate the carryover workload. Future forecasts will be adjusted accordingly based on the outcome.

4) Workload for anticipated marketplace enhancements has been delayed due to vendor staffing constraints related to a shift in focus to ECC. This results in a favorable variance in Operations Foundation; however, the ECC project does not reflect an overage compared to budget because the original ROM budget reflected contingency of \$1.2 million.

5) A portion of the Settlements Foundation and Operations Foundation is covered by a two-year vendor contract with shared resources. The majority of Settlements enhancements were complete in 2015 therefore the funds budgeted for Settlements in 2016 will instead be allocated for Operations enhancements.



## SPP Member-Facing Member-Impacting Portfolio Report Summary

<b>REVISION REQUESTS</b>	
In Flight/Current Release	8
Pending	9
Estimated Cost of Pending Items	\$344,370

<b>ENHANCEMENT REQUESTS</b>	
In Flight/Current Release	18
Pending	116
Estimated Cost of Pending Items	\$3,650,000

<b>PROJECTS</b>	
In Flight/Current Release	13
Pending	6
Estimated Cost of Pending Items	\$9,690,000

### Notes and Qualifications

- This list is not all inclusive of all SPP planned Revision Requests, enhancement requests or portfolio projects. Specific criteria was used for this report to only include MI and MF items, RRs with system or process changes and large technology projects.
- For any item in flight or in a current release, the cost estimates are not included.
- For any project or RR, any cost estimates given are the internal impact assessment provided (which includes SPP resource estimates as well as external costs).
- For enhancements, any cost estimates given are a high-level estimate in a dollar range and include internal costs.

- Items shaded in blue in the enhancements requests section indicate items that are new since the last quarterly report was published.



## Revision Requests - Open

RR#	RR Name	Primary Working Group	Cost Estimate
RR0001_MPRR101, RR0005_MPRR140, RR0112, RR161	RR0001_MPRR101 Combined Cycle Enhanced Design RR0005_MPRR 140 Mitigated Transition State Offers RR0112 ECC Cleanup RR161 Commitment Level Cost Recovery and MCR Settlement Design Enhancements	MWG	Current release
RR0002_MPRR116	Settlement Area Tie-Line Meter Data Submittal	MWG	\$10k - 25k
RR0040_MPRR227, RR0119	LTCR Compliance	MWG	current release
RR0082	Modification of Make-Whole Payment Grace Period	MWG	\$10k - 25k
RR0100	Gas-Electric Coordination Market Timeline Changes	MWG	current release
RR0106	Outage Deviation	MWG	Up to \$10k
RR0113	Node Connectivity Requirement Enhancement	ORWG	\$10k - 25k
RR0116 & RR0142	Quick-Start Real-Time Commitment Quick-Start Multi-Configuration Ineligibility	MWG	\$10k - 25k
RR0127	JOU Combined Option - Aggregate Energy Offer Curve	MWG	\$10k - 25k
RR0130	Commitment Notification Enhancement	MWG	\$25k - 50k
RR0153	Offer Database Roll Forward	MWG	\$10k - 25k
<b>ADDENDUM to May Portfolio Report</b>			
RR167	TCR EESL Validation	MWG	\$134,370

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
MP requests Schedule Data earlier than 7 days out. Would prefer to have it within 2 to 3 days of Operating Day. This schedule data is for MP's Shadow Settlements purposes and not for Real time Operations. MPs have access to their own hourly Schedule data via Web Trans anytime they wish to access the system. Web Trans has an excel download feature that the MP may use to get the Real time hourly Schedule data and upload it themselves to their Shadow Settlement systems. This MP does not want to do the upload themselves, they want the data to be made available and posted preferably via the Marketplace Portal.	Current Release	Medium	\$50k - 100k	SPS, KCPL, AEP, OGE
Recall TSRs entered into webTrans need a reference in Seller comments.	Unplanned C	Low	Up to \$10k	SPP
Return user-friendly "Disapproved" reason from Credit to Markets Markets UI API for Virtual transactions that are not Approved.	Unplanned A	Low	Up to \$10k	SPP Internal
Enable MPs to view their Credit Limit Report from the Portal <=7days before their effective date.	Unplanned C	Medium	\$25k - 50k	SPP
The PPOR Heat Rate curve graph in the MMDD tool is not large enough to show a MW range that is useful for polynomial curves. The size of the graph needs to be increased to provide meaningful value.	Unplanned C	High	Over \$100k	SPP
The MMDD tool should allow multiple submissions of OCC data up until the deadline just like the market systems which allows corrections and changes to be made until the market closes. At midnight the OCC should take the latest submitted values to use in its calculations.	Unplanned C	Unknown	Over \$100k	AEP
Create a read-only user role in the MMDD tool.	Unplanned C	High	Over \$100k	AEP
Settlements & MMU received a request from an MP to breakdown the Day-Ahead Must Offer penalty by Settlement Location.	Unplanned C	Low	Up to \$10k	Tenaska Power Services Co. (TNSK)
The current method of determining state estimator data for MPs is by using the 5 minute snapshot taken by RTBM. By doing this, depending on when the snapshot was taken, state estimator may	Unplanned A	Low	Up to \$10k	GSEC

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
<p>Programmatic interface to alert members of Repricing Notifications. This would be in lieu of the email currently sent out and would be fashioned after the notifications for Settlement Statement publications.</p> <p>Specifically, the intent of the enhancement is to create the following:</p> <ol style="list-style-type: none"> <li>1. A web service that sends a notification to Market Participant listeners to notify that the repricing data is ready</li> <li>2. A web service to accept requests and return repricing data to Market Participants</li> </ol>	Unplanned C	High	Up to \$10k	MCG Energy Solutions
Requested enhancement to the Market Systems notification process to also send emails to a specific distribution list when there is a DA market close delay or other related items.	Unplanned A	Low	Up to \$10k	SPSM
Gas Day Changes require changes to report start times	Current Release	Low	Up to \$10k	SPP
Modify TCR Constraint File (Add Market Day Column)	Release +1	Low	Up to \$10k	Boston Energy
Capacity of Generation on Outage for SPP footprint	Release +2	Low	Up to \$10k	AEP
Capacity of SPP Footprint by Resource	Unplanned A	Low	Up to \$10k	OG&E
API to download data published to the Public FTP site	Unplanned A	High	\$10k - 25k	Monterey SW (MOSW_X)
Expand SPP posting of EMS cases to include 4 cases instead of a single 17:00 case	Unplanned A	Low	Up to \$10k	Westar Energy
Post hourly Real-time on-line Regulating, Spinning, and Headroom reserves having available ramping capability	Unplanned A	Low	Up to \$10k	Westar Energy
For both DA and RTBM markets, require SPP to post hourly load and wind forecasts (DA MTLF and wind forecasts for next day actuals)	Unplanned A	Low	Up to \$10k	Westar Energy
We would like to propose to SPP to provide on a monthly basis a summary file that contains terminated facilities, newly in-service facilities, and facility changes (such as line ratings or impedances).	Unplanned A	Low	Up to \$10k	AEPM

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
<p>Summary: Prior to inserting the MP XML listener endpoints in the Markets database, the Markets code should remove any spaces from the endpoint URL. This should apply when MPs register their listener endpoints via the UI or API. Leading and trailing spaces result in invalid URL endpoints.</p> <p>Requires MP Code Changes: No.</p>	Current Release	Low	Up to \$10k	SPP
<p>Summary: In the Markets UI, change the Notification URL Registration page to allow sorting by Effective Time, Termination Time, and Description.</p> <p>Requires MP Code Changes: No.</p> <p>The Notification URL Registration page also needs to be fixed because when sorting the information by the endpoint it does not sort correctly.</p>	Current Release	Low	Up to \$10k	Westar Energy Generation and Marketing (WRGS)
<p>Summary: In the Markets UI, the XML listener registration page (Notifications tab) should be enhanced to include upload/download functionality to allow users to upload XML listeners via an Excel spreadsheet.</p> <p>Requires MP Code Changes: No.</p>	Current Release	Medium	\$10k - 25k	Westar

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
<p>Summary: The Markets UI/API should be enhanced to include a list of any RTBM intervals that did not solve for a specified Operating Day. Participants would like a way to programmatically retrieve all intervals not solved by the system.</p> <p>Requires MP Code Changes: No. This would be a new, optional API operation that would not require MP code changes.</p>	Current Release	Medium	\$10k - 25k	Grand River Dam Authority (GRDA)
<p>Summary: The Markets system should terminate any active MP XML Listeners where the Notify service the endpoint is registered to has expired.</p> <p>Requires MP Code Changes: No.</p>	Current Release	Low	Up to \$10k	SPP
<p>Summary: In the Markets UI, Energy Dispatch instructions should be displayed in interval ending ascending order and by modified date ascending.</p> <p>Requires MP Code Changes: No.</p>	Current Release	Low	\$10k - 25k	SPP
<p>Summary: In the Markets UI, highlight Real-Time dispatch intervals with an active OOME.</p> <p>Requires MP Code Changes: No.</p>	Current Release	Low	\$10k - 25k	SPP

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
<p>Summary: Provide "ByDay" API operations for Real-Time LMP. This API operation would return LMPs by Settlement Location for all intervals in the specified Operating Day.</p> <p>Requires MP Code Changes: No. This would be a new, optional API operation that would not require MP code changes.</p>	Current Release	Medium	\$10k - 25k	Ventyx
<p>Summary: In the Markets UI, add a time stamp on the message bar for successful and failed messages. It is difficult to tell if several successful actions in a row are actually being recorded.</p> <p>Requires MP Code Changes: No.</p>	Current Release	Medium	\$10k - 25k	Westar Energy Generation and Marketing (WRGS)
<p>Summary: Add new API operation to allow participants to query Real-Time LMP for a specific set of Settlement Locations.</p> <p>Requires MP Code Changes: No. This would be a new, optional API operation which would not require MP code changes.</p>	Current Release	Medium	\$10k - 25k	Sesco SPP Trading, LLC (SESP)
<p>The overrides display in Markets UI does not show when an override was entered by an operator. It only shows the intervals that were overridden. If an operator makes an override at 1550 for the current hour and the next 2 hours, the Markets UI only displays that an override was entered for 1500-1800. This is misleading and the display should display a timestamp of when the override occurred.</p>	Release +1	Low	\$10k - 25k	

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
<p>Summary: In the Markets UI, provide members with a visual timeline of their commitments.</p> <p>Requires MP Code Changes: No.</p>	Release +1	High	\$25k - 50k	SPP
<p>Summary: Allow users to use Virtual Bids/Offers post API operations to delete Virtual Bids or Offers . Today, participants must delete Virtual Bids or Offers using a separate API.</p>	Release +1	High	\$25k - 50k	XO Energy SW, LP (XOSW)
<p>Summary: Add all Contingency Reserve Deployments to the Markets UI displays, API operations and XML notifications. Currently, there are no CRD specific notifications for spinning and supplemental reserve deployments (only for BDRs).</p> <p>Requires MP Code Changes: Yes. Participants using the ReserveService and/or ReserveNotifyService (XML Notifications) would be required to make code changes.</p> <p>Priority changed to Release +2 on 12/04/2015 based on SPQM discussion.</p>	Release +1	High	\$25k - 50k	Southwestern Public Service Company (SPS)

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
<p>Summary: Improve data structure for Overrides in Markets API and Notification to help with parsing data.</p> <p>Currently, resource offer overrides are communicated to participants in a single text field in the API and XML notification. The text field includes multiple pieces of information (e.g. resource name, operating hour, overridden parameter) which cannot easily be parsed programmatically.</p> <p>Requires MP Code Changes: Yes. All participants using the EnergyService and/or EnergyNotifyService (XML Notifications) will be required to make code changes.</p> <p>Priority changed to Release +2 on 12/04/2015 based on SPQM discussion.</p>	Release +1	High	\$25k - 50k	Southwestern Public Service Company (SPSM-MP)
<p>Summary: Add ConstraintType and ContingentFacility to the Binding Limits APIs and Markets UI screens to have it match public data.</p> <p>Requires MP Code Changes: Yes. Participants using the MarketService and MarketNotifyService will be required to make code changes.</p>	Release +1	High	\$25k - 50k	Tenaska Power Services Co. (TNSK)
<p>Summary: Overrides that span multiple days should be returned in the Market Energy Web Service API. The information is displayed correctly in the UI and XML Notifications.</p> <p>Requires MP Code Changes: No.</p>	Release +1	Medium	\$10k - 25k	The Energy Authority (TEA)
<p>New business process regarding reason code #1 for contingency reserve &amp; #3 missing or bad resource SCADA under the XmptDev5minFlg.</p>	Release +1	High	\$25k - 50k	SPSM



## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
<p>Summary: The Markets UI Transaction Log page and associated API operation, should include the endpoint address. In the UI, this column should be added with filtering capabilities.</p> <p>Requires MP Code Changes: Yes. Participants using the TransactionService will be required to make code changes.</p>	Release +1	Medium	\$10k - 25k	Rainbow Energy Marketing Corporation (REMC)
<p>Summary: Add a unique ID to all Markets XML notifications to provide the ability to determine if duplicate messages are being sent to multiple endpoints.</p> <p>Requires MP Code Changes: Yes. Participants receiving XML notifications would need to modify their code to consume the new element.</p>	Release +1	High	\$25k - 50k	Rainbow Energy Marketing Corporation (REMC)
<p>Currently the Markets UI/API allows updates to offer parameters of resources that have already been committed for that date(Manual Commitments or Local Commitments). Although the UI/API will accept the change this is not used as an input to the study. This is confusing to MPs that update their DAMKT offers before 11am because they expect the changes to show up in their results. There should be a warning message, similar to overrides, that indicates the offer that was effective at the time of commitment will be used. Adding this functionality would prevent confusion when MPs attempt to update their DAMKT offers.</p>	Release +1	Medium	\$10k - 25k	SPP

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
<p>Summary: Add effective and termination times to all Resource Offer UI pages</p> <p>Currently, participants are not easily able to determine when a resource offer becomes effective and terminates in the Markets system. Understanding these dates will allow participants to see how far the offer data will roll-forward to future Operating Days/Operating Hours. To address this request, SPP would like the Markets UI resource offer pages listed below to be modified to include the effective and termination dates stored in the Markets system.</p> <p>Requires MP Code Changes: No.</p>	Release +1	Low	\$10k - 25k	SPP
<p>Summary: The Markets UI should allow users to save preferences such as filtering options (e.g the # of Operating Days) for each tab and not have to reset them every time they log into the Markets UI.</p> <p>Requires MP Code Changes: No.</p> <p>Priority changed to Release +2 on 12/04/2015 based on SPQM discussion.</p>	Release +1	Medium	\$10k - 25k	(SPSM-MP)/American Electric Power (AEP-MP)
<p>Summary: Currently in the Market UI, the messages/filtering options are located at the bottom. Please move messages and filtering options to the top of the display.</p> <p>Requires MP Code Changes: No.</p> <p>Priority changed to Release +2 on 12/04/2015 based on SPQM discussion.</p>	Release +1	Low	Up to \$10k	Southwestern Public Service Company (SPSM-MP)

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
<p>Summary: The Markets UI commitment page and corresponding API operation should clearly identify which commitments were a result of the MP Self Commits vs. Market Commitment. The current design does not easily distinguish the difference.</p> <p>Requires MP Code Changes: Yes. Participants using the EnergyService and/or EnergyNotifyService (XML Notification) will be required to make code changes.</p>	Release +1	High	\$25k - 50k	(SPSM-MP)/American Electric Power
<p>Summary: Add Advanced filters or "quick pick" list in the Markets UI for frequently used operations. This is needed to reduce the amount of mouse clicks required to navigate to various pages in the UI.</p> <p>Requires MP Code Changes: No.</p>	Release +1	High	\$25k - 50k	American Electric Power (AEP-MP)
<p>Summary: Create a Markets UI display and API operations to show the total output (Energy+Reg Up/Down+Spin/Supp) of a generation plant.</p> <p>Requires MP Code Changes: No. The new API operations would be added as optional which would not require participant code changes.</p>	Release +2	High	\$10k - 25k	Arkansas Electric Cooperative Corporation (AECC)
<p>Summary: Add indicator to Emergency Limit notifications, API operations and UI displays to specify whether the minimum or maximum limit will be exercised.</p> <p>Requires MP Code Changes: Yes. Participants using the EnergyService API and/or EnergyNotifyService XML Notification service will be required to make code changes.</p>	Unplanned A	High	\$25k - 50k	Southwestern Public Service Company (SPS)

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
<p>Summary: In the Markets UI, add a transaction type column to identify if the transaction is a Submission, Query or Notification. This column should be filterable.</p> <p>Requires MP Code Changes: No.</p>	Unplanned A	Medium	\$10k - 25k	SPP
<p>Summary: Add new API operations and UI display to provide aggregated wind forecast.</p> <p>Requires MP Code Changes: No. This is a new, optional API operation that does not require MP code changes.</p>	Unplanned A	Medium	\$10k - 25k	Southwestern Public Service Company (SPSM-MP)
<p>Summary: Create a new XML notification to inform participants their Virtual Bids or Offers have been deleted from the Markets system as the result of Credit Default or Market Monitoring Virtual Block event.</p> <p>Requires MP Code Changes: No. This would be a new, optional Notification that will not require MP code changes.</p>	Unplanned A	Medium	\$10k - 25k	SPP
<p>Summary: Add reserve zone to the Day-Ahead and Real-Time Cleared Operating Reserve offers in the Markets UI, API and applicable XML notifications.</p> <p>Requires MP Code Changes: Yes. Participants using the ReserveService and/or ReserveNotifyService (XML Notifications) will be required to make system changes.</p>	Unplanned A	High	\$25k - 50k	Kansas City Power & Light, Co.

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
<p>Summary: Allow participants to limit user access to the GetMarketMessageSetbyDay operation and corresponding UI page. Currently there is a possibility that a market operator can send an AO specific message that could be retrieved using the GetMarketMessageSetbyDay operation or UI. Since some vendors are given access to Market webservice to download general market data and should not be privy to any AO specific information, participants need a way to restrict access to this data.</p> <p>Requires MP Code Changes: No. A new role will be created specifically for this operation to allow participants to further restrict access to this information. Participants LSAs would need to grant users access to view the GetMarketMessageSetByDay and UI information.</p>	Unplanned A	Medium	\$10k - 25k	AEP
<p>A member requested that historical Markets data be available for more than 7 days via the Market UI/API.</p>	Unplanned A	Low	\$25k - 50k	CRGL
<p>Summary: Create a Markets UI display and API operation to show SPP defined non-cost resource mitigation parameters in hourly intervals.</p> <p>Requires MP Code Changes: Yes. Participants using the EnergyService API will be required to make code changes.</p>	Unplanned A	Medium	\$10k - 25k	SPP
<p>An enhancement to the XML notification or other notification methods would be needed to add a reason code for Reliability and Economic deployment when DVER's receive the 'Follow' flag. DVER's are notified of when to 'follow dispatch' but there's no indication about the reason to follow deployment.</p>	Unplanned A	Low	\$25k - 50k	SPP

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
<p>Summary: XML Download (Reports) functionality in the Markets UI needs to support both CSV and XML formats. Currently, the UI only supports XML file format.</p> <p>Requires MP Code Changes: No.</p>	Unplanned A	Medium	\$10k - 25k	SPP
<p>Summary: In the Markets UI, add Modified Date and User ID of user who made the last change to all Resource Offer screens.</p> <p>Requires MP Code Changes: No.</p>	Unplanned A	High	\$25k - 50k	Southwestern Public Service Company (SPSM-MP)
<p>Summary: Modify XML download reports available in the Markets UI to include ModifiedBy and ModifiedDate. This will help Market Participants distinguish when an update was made via API submittal versus a manual Markets UI submission.</p> <p>Requires MP Code Changes: No.</p>	Unplanned A	High	\$25k - 50k	Southwestern Public Service Company (SPS)
<p>Summary: Enhance Markets UI to allow right click feature to view or edit</p> <p>Requires MP Code Changes: No.</p>	Unplanned A	Medium	\$10k - 25k	Southwestern Public Service Company (SPS)
<p>Summary: Provide UI page and API operations to retrieve historical Reserve Cap notifications. The goal is to allow participants to review the stream of notifications that may have been delivered in the past.</p> <p>Requires MP Code Changes: No. The new API operations would be optional operations which would not require participant system modifications.</p>	Unplanned A	High	\$10k - 25k	SPP

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
<p>Summary: Add a Markets UI page and API operation to show total Real-Time LMP per hour.</p> <p>Requires MP Code Changes: No. There would be new, optional API operations added. Participants would not be required to make code changes.</p>	Unplanned A	High	\$10k - 25k	Arkansas Electric Cooperative Corporation (AECC)
<p>Summary: Create a screen in the Markets UI that lists all of the Settlement Locations that have a Virtual Bid and/or Offer with the ability to link to the Virtual Bid/Offer.</p> <p>Requires MP Code Changes: No.</p> <p>Priority changed to Unplanned B on 03/25/2016 based on SPQM discussion.</p>	Unplanned B	High	\$25k - 50k	Sesco Trading
<p>Summary: Clearly highlight the type of Market case (RTBM, DA, or Mitigation) for which the Market Participant is entering offer curve data so as to be readily visible to the user.</p> <p>Requires MP Code Changes: No.</p> <p>Priority changed to Unplanned C on 03/25/2016 based on SPQM discussion</p>	Unplanned C	Medium	\$10k - 25k	Google Energy, LLC
<p>Summary: Allow users to submit, delete and query Virtual Bids/Offers within the same API operation. Today, participants must submit, delete and query Virtual Bids separately from Virtual Offers.</p> <p>Requires MP Code Changes: No. This change would result in new, optional API operations which would not require MPs to make code changes.</p>	Unplanned C	High	\$25k - 50k	XO Energy SW, LP (XOSW)

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
This enhancement is to change the effective max and min logic in RTBM to no longer relax to initial mw for non-wind resources. For example if a Hydro resource has a scadamw of 110 MW and it has a submitted ecomax of 100 MW then RTBM will dispatch to resource to 100 MW or lower. For Wind resource, however, no logic needs to be changed. Their effective max can be set to SCADA MW if SCADA MW is above submitted max.	Current Release	Medium	\$10k - 25k	SPP
This change is proposed to enable the Market to handle unit/load contingency constraints in a more accurate manner. The primary member impact will be that if a unit or load is expected to be disconnected during the contingency of the flowgate (based on flowgate definition/modeling), then it will no longer receive a Marginal Congestion Component added to their LMP for that flowgate.	Release +2	Medium	\$25k - 50k	SPP
MP's are requesting the SPP 5 minute interval data be rolled up into a separate hourly data file. There are three specific requests for data: Obtain time series settlement prices for a particular node over a time period, as a single time series data set. The Day-Ahead and Real-Time On-Peak LMP and Off-Peak LMP for by each Trading Hub for all Trading Hubs be available on the Portal. Hourly RTBM pricing files to facilitate easier analysis between the DAM and RTBM.	Current Release	High	Up to \$10k	SNL Financial
Add the RTBM/DA delta information to the Price Contour Map	Current Release	Medium	Up to \$10k	SPP
Post Total Congestion Dollars in DAMKT by Month and Constraint	Current Release	Low	Up to \$10k	SPP
Public Data request to provide more granular data - Actual/Forecast Load	Release +1	Medium	Up to \$10k	WoodMac
Remove "hour/minute" from file names of files representing an entire day	Release +1	Medium	Up to \$10k	SPP
Provide a table of SPP generating stations' fuel types broken down by SPP FTR case PSS/E bus numbers	Release +1	Medium	Up to \$10k	XO Energy



## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
Revise vendor contract to provide Actual wind resource and Day Ahead forecast wind output by control area	Release +1	Medium	Up to \$10k	DC Energy Midwest LLC
Separate SLMP/SMCP Data File	Release +1	Low	Up to \$10k	SPSM
Price Contour Map - Weather and Transmission overlay	Release +1	Medium	Up to \$10k	OGE
Modify Gen Mix Display (Coal MKT / Coal SELF)	Release +1	Low	Up to \$10k	Westar
Create "Look Ahead" report on day ahead total generation outage.	Release +2	High	Up to \$10k	Trumpet Trading
Add Resource-Zone Level Load Information	Release +2	Unknown	Up to \$10k	Tungston Power LP
Replace all GMT and Local timestamp columns with ISO-8601 compliant timestamp	Release +2	High	Up to \$10k	SPP
Consolidate Short Term Wind and Short Term Load Forecast files into daily folders	Release +2	Medium	Up to \$10k	SPP
Post DA & RT public Load data by zone	Release +2	Medium	Up to \$10k	Westar (WRGS)
Request that wind data be publicly posted in DA and RT markets by zone	Release +2	Medium	Up to \$10k	Westar (WRGS)
<p>Why does CROW not show the Implemented and Completed dates/times when you export them to Excel? I would like to use this for Compliance evidence but it only shows the Planned Start/End Date/Time. (submitted via RMS from GRDA on 1/5/2016</p> <p>Currently the automatic "Export to Gantt" and "Export to Excel" do not include any information regarding the Request Type. I would use those features if it included the Request Type because without that column it is not known if it is a derate or an outage just by looking at the exported reports.</p>	Unplanned C	Low	Up to \$10k	BASIN & GRDA
Westar requests an SPP modeling enhancement to either make CROW line/xfmr names consistent with EMS/TCR comment names for line/xfmrs or vice versa. The line/xfmrs names need to be the consistent between CROW and EMS/TCR .raw comment names.	Unplanned C	Low	Up to \$10k	WRGS

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
SPP would like a display that lists all of the generator and load shift factors per flowgate defined in RTLODF. The shift factors would need to be calculated based on the topology of the model in DTSPSM NETMOM.	Unplanned C	Unknown	Up to \$10k	SPP
This functionality is standard in EMP 2.6 with a patch. SPP would like to backport this functionality to its EMP 2.5 system.	Unplanned C	Unknown	Up to \$10k	SPP
SPP would like a way to more easily control an island's frequency during restoration in DTSPSM. One possibility is to have a way to input a target frequency and have the units in the island respond as needed. SPP would also like more information on the group-funded project for Blackstart Enhancements that has been mentioned in recent Users' Group meetings.	Unplanned C	Unknown	\$10k - 25k	SPP
Currently during restoration drills a unit can generate well over its maximum MW. SPP would like for the DTSPSM to stop adding additional load MW to a generator if it reaches its maximum MW limit. SPP would also like for the DTSPSM solution to respect a unit's MW minimum output. While trying to solve for a high frequency the solution will cause a unit to motor with a negative MW output.	Unplanned C	Unknown	\$10k - 25k	SPP
SPP would like the ability to truly "fix" a unit's MW output with no frequency response. Currently in the DTS when you remove the frequency control of the unit it will still respond to changes in load.	Unplanned C	Unknown	Up to \$10k	SPP

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
This project will add functionality to enable SPP Operations to calculate the legacy BA actual loads after SPP is the BA. The existing BAs will continue to calculate and submit actual loads for SPP only in the short term, but have requested SPP take this requirement over shortly after Marketplace go-live since it is a function of a BA and SPP will be the BA.	Unplanned C	High	\$50k - 100k	SPP
<ul style="list-style-type: none"> <li>•Reactors in the .raw exports of the EMS model are showing as Loads in PowerWorld</li> <li>•Tertiary winding bus numbers and circuit IDs should be labeled consistently.</li> <li>•Avoid NULL bus numbers in the EMS CIM in order to avoid inconsistent labelling in exported .raw cases.</li> </ul> <p>Requested by: Westar (Cliff Franklin &amp; Eric Hayes)</p>	Unplanned C	Unknown	\$10k - 25k	Westar
<p>Per an ORWG request (action item56) we need to download and parse this file from NOAA and make the current index available on an ICCP point.</p> <p>We're asking MISO if they make the data available as well; if they do this request can be canceled.</p>	Unplanned C	Low	Up to \$10k	
Could SPP support a website for serving Next-day studies? Other RCs have implemented share space where next -day studies can be posted and reviewed by entity members. Currently, SPP members are emailing studies to other members. If SPP has been established to facilitate collaboration and coordination, a platform for next-day studies would be a step in the right direction.	Unplanned C	Low	\$10k - 25k	NPPD
Change to the Bilateral interface to limit the amount of profile data which can be retrieved during one search. Currently, all data is returned if the operating day is null. The changes will include a start and stop date range to restrict the amount of data returned.	Unplanned C	Low	Up to \$10k	EETC

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
<p>Request a change that BSS profiles allow NULL values rather than forcing a value of 0 when no schedule is needed.</p> <p>Having '0' and 'null' is an industry understanding. "0" might actually be a real numerical value; where as "null" is an understanding that there shouldn't be any value for a particular hour or set of hours on a particular BSS. "0" vs "NULL" also can prevent clerical errors from being made since there is a distinguished understanding that nothing is purposely scheduled (ie unit outage), oppose to actually representing purposely a couple potential hours where no flow occurred (ie no load on a particular unit during a couple of off peak hours).</p> <p>Priority Grouping of O-Other: When developing the Market a business decision was made to not allow "NULL" values. If we were to allow "NULL" values we would not know if the Null value was intended or if the MP missed imputing data. Settlements is reaching out to the MP in regards to this request.</p>	Other	Unknown	\$10k - 25k	TEA
<p>MP requested enhancement to auto-approve BSS profiles on subsequent re-submissions. Currently only the first submission of a BSS profile set to auto-approve will auto-approve, while subsequent changes require re-approval.</p> <p>Priority Changed to Unplanned A on 3/25/16 based on SPQM discussion.</p>	Unplanned A	Low	Up to \$10k	Tenaska
<p>Multiple MPs have requested enhancement to add a date/last updated time stamp to BSS Profiles to assist in determining which profiles need to be validated when multiple profiles have been submitted for a single OD.</p>	Unplanned C	Low	\$10k - 25k	SPSM, PCI, KCPL, KMEA, GRDA, Tenaska

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
In order to prevent typos and assist customers in determining the appropriate acronym for their counter parties, we would like to have an enhancement for BSS to include drop down menus for Buyer and Seller. We have a list we currently are providing to customers located at <a href="http://www.spp.org/publications/SMT%20FAQ%2010-1-2013.pdf">http://www.spp.org/publications/SMT%20FAQ%2010-1-2013.pdf</a> that can be leveraged to create the dropdown. Model management team will have to provide the updated listing as it is updated.	Unplanned C	Low	Up to \$10k	KCPL
Add the ability to the GUI for processing Meter Requests within Soap Envelopes. This would allow the same file to be processed both via API or GUI without any changes. Currently, API requires the envelope and Portal requires it NOT be there. It would be much simpler if the same format could be used for both.  Priority Group O - Other: Need further explanation of the benefits of this request. Need to understand the added value, this would only change the way this is currently done. Settlements reaching out to MP to see if this is still needed.	Other	Unknown	Up to \$10k	SPS
MP and MA need the ability to see/validate submitted meter data and calibration between Initial and Final meter windows. Currently, the reports are locked and not updated between Initial and Final Meter Windows. Some MPs have requested a way to view what has been submitted and calibration that is continually updated and not stopped, but at a minimum, they need additional time for validation prior to close of Final.	Unplanned C	High	\$50k - 100k	KMEA, WFEC, GRDA, KCPL
Current Meter Agent Report Card displays detail information. We have had requests to show a summarized approach at the hourly interval.	Unplanned C	Medium	\$25k - 50k	GRDA
Currently, you get ALL meter locations for a Meter Agent and some have around 100. It would be more functional to be able to filter specific ones via a drop down box with available Meter Locations based on Meter Agent/MP logged in.	Unplanned C	Medium	\$25k - 50k	GRDA

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
Create a report that summarizes the submitted data and indicates when meter data has not been submitted. This report needs to be available to both a Meter Agent Level Role and also a MP/AO Level Role.	Unplanned C	Medium	\$25k - 50k	Westar Energy
Members have requested the ability to know when the last time an OD has been updated for meter processing via the portal. Since the meter process runs every 30 - 60 - minutes, we are requesting that the report show the last time the meter file has processed for that given day to display on report output and if window is open/closed.	Unplanned C	Low	Up to \$10k	WFEC
Adding two new direct assignment charge types that can be used to pass through charges from the Transmission Owner to Transmission Customer. Charge types are as follows: 1) GEN_IMBALANCE_DIRECT_ASSIGNMENT_AMT 2) ENERGY_IMBALANCE_DIRECT_ASSIGNMENT_AMT	Current Release	Medium	\$25k - 50k	SPP/WAPA
Currently we only pass through the Auction ID attribute through to the customers on their Bill Determinant Report. In the future we would like to have the Auction Name and the Peak/off peak auction type as attributes on TCR/ARR determinants that currently use the AID attribute.  Priority Grouping of O-Other: Need further explanation of the benefits of this request.	Other	Unknown	\$50k - 100k	

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
<p>All current inputs and outputs on the COS Portal need to be transitioned to the new IM Portal.</p> <p>Phase 1 - Transition current functionality (all inputs/outputs) Phase 2 - Develop APIs / needed enhancements</p> <ul style="list-style-type: none"> <li>• IM Portal applications can be scoped at a TC/TO level. Members could use existing certificates on the IM Portal and we would add role(s) for any new applications that we create on the IM Portal for Transmission. Ex: MVAR submission, DA, NITS/CP, downloads, etc</li> <li>• We would need to work with Customer Relations on the TO/TC transition to the IM Portal - certificate set-up</li> <li>• Modifications to existing JAMS jobs would allow files (invoices, statements, etc) to be available to members for download via the IM Portal</li> </ul> <p>INPUTS: MVAR, NITS, Schedule12, DirectAssignment OUTPUTS: Daily Statements, Monthly Statements, Summary Files, Invoice</p> <ul style="list-style-type: none"> <li>• MVAR submission validations could be changed to use the commercial model tables in ETS 2.5 database instead of Siebel Business Objects. ETS tables are kept current from the commercial model bridge and would still require Settlements to do modeling in Siebel until we transition to CMT.</li> <li>• All submissions (except for MVAR) are uploaded via the Portal to a backend portal share. There are no validations upon submission. The bridges would continue to do all validations and</li> </ul>	Unplanned C	Medium	\$50k - 100k	SPP
<p>Market Participant Vendor request to make Settlements notifications smart enough to know when there are multiple runs required for the OD, and only send 1 notification on all associated runs that are posted.</p>	Unplanned C	Medium	\$25k - 50k	MCG Energy Solutions

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
Settlements notifications are currently the only type of notification from the Marketplace systems that don't include a MP/AO name in the actual message XML. All other notifications that we are aware of have the MP/AO name in the message. For consistency purposes and to make sure that all messages from SPP contain all the information they need for their context, we would like the MP/AO identifier to be added to the Settlements Notification XSD and messages, rather than leaving it to the vendor/MP's system to add that information as metadata when the messages are persisted on our side	Unplanned C	Low	Up to \$10k	Tenaska
<p>The settlement notifications being delivered to the MP's include the settlement type. This causes multiple notifications to be issued at the same time. One for Initial, one for Final, and one for each resettlement.</p> <p>As a consequence, processes that automatically download statements when a notification is received are repeatedly downloading the data.</p> <p>We need a single notification to the MP's when the statement is ready.</p>	Unplanned C	Medium	\$25k - 50k	PCI, MCG Energy Solutions
Would it be possible to provide the IM settlements calendar in XML format? Our meter submission is automatic and being able to import the "due dates" to compare against would be very handy, especially during the holiday adjusted schedules. I'm doing this with the Excel version, but due to the nature of Excel, it's a semi-manual process."	Unplanned C	High	\$50k - 100k	WFEC
A report to provide the Market Participants the costs allocated to the market caused by the GFA Carve Outs and the hourly/monthly deviations associated with the GFA Carve Out Schedules'	Unplanned C	Low	\$10k - 25k	SPP



## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
<p>MP requesting the following data be added to the EQR reports.</p> <p>FERC Tariff reference;            Contract service agreement;            Transaction unique identifier;            Type of rate;            Term name;            Increment name;            Increment Peaking name;            Product name;            Transaction quantity;            Transaction price;            Product name;</p> <p>Combined 03-949 with this ticket as the requests were duplicates. 03-949 requested all of the data required by FERC to be included on the EQR report.</p> <p>Internal Design Discussions have started with requirements from the EQR Task Force, however this has not been assigned a release yet.</p>	Unplanned A	High	\$50k - 100k	HQ Energy Services
<p>Market Participant requested the ability for the Settlement Reports - View Settlement Statements role to be specified at the Asset Owner level, as opposed to only the Market Participant level.</p> <p>Priority Grouping of O-Other: Need further explanation of the benefits of this request. This data is already available to AOs in the determinant report. Settlements reaching out to MP to show where this data can be found.</p> <p>Per SPQM 03-25-16, move to Unplanned C if approved by the SUG.</p>	Other	Unknown	\$25k - 50k	Tenaska, TEA

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
<p>Market Participant requests to add GMT offset to the Operating Date and Invoice Date fields in the Settlement Statement Report. Their internal systems operate at GMT the offset is important to parsing of the file.</p> <p>Priority Grouping O-Other: Need further explanation of the benefits of this request. The Invoice date and Operating date are not time specific.</p>	Other	Unknown	\$10k - 25k	APX
<p>Currently the settlement billing determinant file is available at the AO level only and we would like to see it also available at the MP level.</p> <p>Priority Grouping of O-Other: This can only be done for the API, Data Volume would be too large through the UI. Settlements reaching out to MP.</p>	Other	Unknown	\$25k - 50k	Tenaska
<p>Request for the FERC EQR data to be a month long, instead of the current 7 days</p>	Unplanned A	High	Up to \$10k	AEP
<p>Enhance the current Meter Agent Report Card to work similar to the MP Meter Report to improve performance and usability for the MPs.</p>	Unplanned C	Low	\$10k - 25k	SPP

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
<p>Make additional market-wide determinants available to Settlement determinant Report. The attributes for Market by Hour for DA and 5 min for RT requested are:</p> <p>DA RegUp Cleared Volume            DA RegDn Cleared Volume            DA Spin Cleared Volume            DA Supp Cleared Volume</p> <p>DA RegUp Distribution Volume            DA RegDn Distribution Volume            DA Spin Distribution Volume            DA Supp Distribution Volume</p> <p>RT RegUp Cleared Volume            RT RegDn Cleared Volume            RT Spin Cleared Volume            RT Supp Cleared Volume</p> <p>RT RegUp Distribution Volume            RT RegDn Distribution Volume            RT Spin Distribution Volume            RT Supp Distribution Volume</p> <p>Action Item from 12/2015 SPQM: Gary Cate Provided XCEL Energy Public Data URLs where to find this information on 12/11/15. SPP followed up on 12/18/15 and 2/3/16 and they have not had time to review the information. This ticket will remain open until they have reviewed the information provided to determine if it fits their</p>	Unplanned C	Unknown	\$50k - 100k	SPSM

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
Meter Data Submittal Enhancement Request -- Request to update the meter status field whenever the meter file is picked up and processed regardless of settlement period. Not having this field updated not only makes it confusing (appears that the meter file was not picked up for the final), but makes this field useless to the end user.	Unplanned C	Low	Up to \$10k	MidAmerica Energy Company (MECB)
Publish nomination caps during Verification period  Priority changed to 3-M on 02/05/2016 based on SPQM discussion	Release +2	Medium	\$10k - 25k	SPP
Make Round cap , Round Nomination, and Round allocation information downloadable in the ARR Nomination Editor and via API	Unplanned A	Medium	\$25k - 50k	Customized Energy Solutions
Make the entitlement MW column of the downloadable Nomination Editor file available via API.	Unplanned B	Low	\$10k - 25k	Customized Energy Solutions
Have ARR nomination process directly mirror the TCR bid process (create portfolio, enter nominations, save, and submit portfolio).  Priority changed to 4C-H on 02/05/2016 based on SPQM discussion	Unplanned C	High	\$25k - 50k	OGE
In the TCR Markets UI API, make it more intuitive that an LTCR Round 1 portfolio must be saved and submitted.	Unplanned A	Low	Up to \$10k	SPP Internal
Enhance Annual and Monthly Self-Convert Files to aid MPs in quickly determining the activity for a period: A) Include clearing price on all rows.	Unplanned B	Low	Up to \$10k	WRGS
Since Internet Explorer v10 is being deprecated, the iHedge base will be upgraded for Internet Explorer v11 compatibility.	Release +1	Low	Up to \$10k	SPP Internal
Addition of a "Submit" button inside the portfolio editor.	Release +2	Low	Up to \$10k	AEPM
Add a new public file (updated annually) that contains number of hours settled for every product period in the TCR markets. The file would be accessible through the Public section of the SPP Marketplace Portal, as well as through an FTP service.	Current Release	Low	Up to \$10k	WRGS

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
<p>Create a Public Download and API call for the list of Electrically Equivalent Settlement Locations (EESL) associated with each market in the TCR Markets UI API. UPDATE 2/19/2016: The files will be accessible via FTP which will serve the same purpose as an API.</p> <p>Priority changed to 3L-S on 03/29/2016 based on SPQM discussion</p>	Release +2	Low	Up to \$10k	MSWF, XO Energy, Saracen Energy
<p>Append bus names as a comment in .raw file to facilitate MP processes.</p>	Unplanned B	Medium	\$25k - 50k	Westar Energy, SPS

ADDENDUM to May Portfolio Report				
<p>Summary: Provide Gap Fill data via the Markets Web Service for RT LMP.</p> <p>Requires MP Code Changes: No. This change would provide a new optional field and would not result in a major version change of the Markets Web Service.</p>	Unplanned C	Medium	\$10-25k	MSWF

## Open Enhancements - All

Enhancement Description	Priority Grouping	Level of Complexity	Cost Estimate	Requesting Party
Would it be possible to automatically export the equipment (lines and transformer) to a file on a regular basis (1 time a week)? There is a need to post this info on a FTP site.	Unplanned C	Low	less than \$10k	AEP

**Legend:**

Blue: Items which were not listed on the last Quarterly Portfolio Report

## Projects

Project Name	Project Description	Cost Estimate	Targeted Implementation Date
Ratings Submission Tool	SPP Operations has identified a need to formalize the submittal of line rating changes that are submitted by Transmission Owners per NERC standard FAC-008-3. These line ratings are used in SPP's reliability function and the network model used by markets. This project is to create an SPP-hosted tool with a web-based user interface, which will allow the appropriate TOs to submit line ratings.	In flight	05/24/16
Schedule Data API	Four MPs (SPS, KCPL, AEP, OGE) request Schedule Data earlier than 7 days out -- within 2 to 3 days of Operating Day (for shadowing)* Balancing issue #328	In flight	09/01/16
Markets Release 1.18	This release includes changes for Hot Start, ECC Performance improvements, and several enhancements and defects.	In flight	06/07/16
Markets Release 1.19	This release includes all remaining ECC functionality as well as member requested enhancements to the User Interfaces and APIs.	In flight	11/01/16
Markets Release 1.20	This release includes ECC Defect fixes but not intended to include major changes. # defects and # enhancements is TBD.	In flight	3/1/2017 (date likely to change)
TCR 2.7 Release	MPPRR227/RR119	In flight	06/07/16
Z2 Crediting Process	The Crediting Process project will deliver a process for analyzing the stack list of long-term and short-term transmission service requests that impact creditable facilities/upgrades under the tariff.	In flight	11/04/16
CIP Version 5 Compliance Readiness	The scope of this Project includes all work associated with efforts to build new processes or enhance existing processes, as needed, which will support compliance with the CIP Version 5 Standards, as defined by the North American Electric Reliability Corporation (NERC). The effective date of these standards is 1 Apr 2016. This Project applies to those processes managed by the SPP Compliance Department. It is acknowledged that this Project is part of a Program which consists of other projects associated with efforts to support compliance.	In flight	08/01/16

## Projects

Project Name	Project Description	Cost Estimate	Targeted Implementation Date
CIP Version 5 IT Readiness	The scope of this Project (CIP Version 5 IT Readiness) includes all work associated with efforts to build new processes or enhance existing processes, as needed, which will support compliance with the CIP Version 5 Standards, as defined by the North American Electric Reliability Corporation (NERC). This Project applies to those processes managed by the SPP IT Organization, including both the IT Operations and IT Applications Departments.	In flight	07/01/16
Enhanced Combined Cycle - Gas Day	This project will deliver two large areas of functionality related to Enhanced Combined Cycle (RR1- MPRR101, RR5-MPRR140, and RR112, RR161) and Gas Electric Harmonization (RR100).	In flight	03/01/17
FERC 676-H NITS Web Oasis Modification	Change to OATI systems caused by FERC Order 676-H NITS upgrade. The OATI webOASIS and webTrans data modules will be updated to incorporate all necessary structures to represent NITS requests via electronic templates.	In flight	07/25/16
TTSE Dispatcher Training Simulator	Phased approach to develop a more realistic simulator environment dedicated to SPP Operations Training by: Enhancing the current Dispatcher Training Simulator (DTS) Incorporating a Market System & Data Feeds Creating a Training and Testing Simulated Environment (TTSE). Adding Visualization Tools-Genview, Flowgate Explorer, etc.	In flight	12/31/18



## Projects

Project Name	Project Description	Cost Estimate	Targeted Implementation Date
PMU Data Exchange Phase I	SPP has a need to install the applicable components for Synchrophasor (aka Phasor measurement Unit PMU) data exchange and analytics. PMU devices can capture voltage, frequency, current, and angle for the 3 phases at a substation as fast as 60 measurements a second. This granularity of data would greatly enhance our after-the-fact event analysis. Along with event analysis, the data would assist in our real-time situational awareness. While the data could aid in identifying generator trips and island situations, it could also aid in our State Estimator accuracy. This aligns with the Operations strategic plan to expand our operations capabilities in the dynamic evaluation of the real-time operations.	In flight	12/30/16
2-Factor Authentication	The Marketplace UIs and APIs use certificate based single factor of authentication mechanism. This project proposes adding a 2nd factor of authentication (like password) to the authentication process. While there is no 100% security, the 2-factor authentication will lower the Marketplace UI and API security vulnerability and reduce the risk to the Marketplace systems. Most of the other ISOs use 2-factor authentication with their UIs and APIs.	\$551,000	
Identity and Access Management System	This project is to purchase and deploy an automated IAM System and supporting processes. Currently, SPP is incurring significant cyber security and compliance risk as well as reduced efficiency due to continued use of manual Identity and Access Management processes.	\$1,112,000	

## Projects

Project Name	Project Description	Cost Estimate	Targeted Implementation Date
Z2 Crediting P2 and P3	The objectives of the Z2 Crediting Tool P2 and P3 project are to implement the priority 2 and 3 functional requirements of the Credit Stacking System to (1) enable SPP to reliably and consistently comply with the provisions of Attachment Z2 of the SPP Tariff, (2) to enhance efficiency and accuracy of the revenue crediting process, and (3) reduce the risk of inaccurate settlements and resulting customer disputes.	\$349,000	
Liferay Portal Replacement	Existing Liferay version 6.1 needs to be upgraded and the new 6.2 version revealed changes to the Liferay GUI and compatibility with our existing SPP themes that would require changes to the look and feel of the Integrated Marketplace Portal. Liferay Portal usage has changed and therefore its infrastructure's value has diminished, leading to an opportunity to eliminate use of Liferay and save maintenance expenses.	\$237,000	
EMS Software Upgrade	Upgrade to a supported version of EMS software (Alstom e-terrplatform) running on a compatible and supported operating system in accordance with industry and SPP standards. The upgrade will also include server and operating system upgrades.	\$6,900,000	
ICCP Software and OS Upgrade	Upgrade to a supported version of ICCP (Alstom e-terrcomm) software running on a compatible and supported operating system in accordance with industry and SPP standards. The 32 bit to 64 bit software upgrade will also allow more permissions to be granted to data items without reaching memory limitations. This upgrade will match the existing architecture of 6 production servers and 4 ITE servers.	\$541,000	

## How to Read this Report

The SPP Portfolio Report, published quarterly, is a report reflecting the latest available inventory of revision requests, enhancements, defects and projects that are subject to prioritization. Each of these areas are reported on a tab within the report.

**Revision Requests:** Revisions Requests (RRs) are requests to make additions, edits, deletions, revisions or clarifications to the SPP Market Protocols, SPP Business Practices, SPP Criteria, or SPP Open Access Transmission Tariff, except for Appendix F of the Market Protocols. The Portfolio Report includes all system and/or process-impacting revision requests which have been approved by the primary working group and are not yet implemented. The report does not include those RRs which are postponed, held, rejected, withdrawn, or other status which is not subject to prioritization. A complete list of RRs regardless of status is available on SPP.org here:

[SPP Revision Requests - RR Master List](#)

**Enhancements:** The items on the Enhancement tabs are requests for new or changed system functionality that do not require updates to SPP Market Protocols, SPP Business Practices, SPP Criteria, or SPP Open Access Transmission Tariff. The tab marked “**Open Enhancements-New**” reflects any enhancements that have been requested since the last quarterly report was published. The tab marked “**Open Enhancements-All**” includes both the new enhancement requests and the enhancements that were existing on the last quarterly report.

**Defects:** A defect is a deviation between the expected and actual results of a system component, service component, or approved artifact. The SPP Portfolio Report includes both stakeholder and staff-reported member-facing and member-impacting defects.

**Projects:** The items on this tab are a list of active and planned projects that are Member-facing, Member-Impacting or Major Technology projects.

### **Summary**

Items included in the SPP Portfolio Report are evaluated with consideration for several key factors. For Revision Requests and Enhancements, the “Priority Grouping” for an item (defined below), is determined based on Cost Estimates, Level of Complexity and Severity. Other factors including resource availability, Tariff/FERC status, other areas impacted, and correlation to other work may be considered in prioritization. For Projects, prioritization is reflected via “Priority”. The priority of a project is similarly determined based on factors such as a score calculated using the SPP Scoring Tool and a cost estimate. And as with other items, other factors may be considered in prioritization. For more information on the Stakeholder Prioritization process and quarterly meeting process, please see the SPP Stakeholder Prioritization Process document located in the Stakeholder Center of SPP.org.

[SPP Stakeholder Prioritization Process Document](#)

## How to Submit a Comment

Comments may be submitted for any: **Revision Request, Enhancement or Project**

To submit comments on Projects, Enhancements, RRs, please use RMS with the “Quarterly Stakeholder Prioritization Feedback” Quick Pick.

[SPP's Request management System](#)

## Glossary

**Revision Requests Report**

Column Header	Purpose	Filter Key Points/Notes
RR #	Tracking number assigned for the Revision Request. Each Rr is assigned a unique number by the Primary Working Group staff secretary.	Use filter to locate revision requests by RR#
RR Name	Revision Request Title	Use filter to locate revision requests by Title
Primary Working Group	The working group owing overall responsibility for the document impacted by the RR. <ul style="list-style-type: none"> <li>• MWG – Market Protocols</li> <li>• RTWG – Tariff</li> <li>• ORWG – Criteria</li> <li>• BPWG – Business Practices</li> </ul>	Use filter to locate revision requests by Primary Working Group
Priority Grouping	Assessment by SPP Staff of the priority group: <ul style="list-style-type: none"> <li>• Current Release – Those items for which system changes or process/procedure changes are in progress. The in-service date will vary depending on the length of development and implementation effort <ul style="list-style-type: none"> <li>• Release+1 – Items that are planned for inclusion in upcoming release(s). Release+1 may also include items with a longer-term implementation date due to their complexity, which are being worked as a higher priority.</li> </ul> </li> <li>• Release+2 – Items that are planned for inclusion in the next release after Release+1 items.</li> <li>• Unplanned-A, B or C – Items in the queue not yet planned for a specific release. The sub-classification of A, B or C indicates priority within Unplanned, A being the higher, B being middle and C being the lowest priority of the Unplanned items.</li> <li>• Other – Items which a) need clarification, b) need further explanation of the benefits of the request, or c) cannot be placed in the queue for another reason.</li> </ul>	Use to filter by Priority grouping
Level of Complexity	Staff's assessment of how complex the item is to implement, taking all factors into consideration (High, Medium, Low or Unknown)	Use to filter by Level of Complexity
Severity (Ranked by Primary WG)	Defines the criticality, according to a scale. <ul style="list-style-type: none"> <li>• Critical</li> <li>• High</li> <li>• Medium</li> <li>• Low</li> </ul>	Use to sort by urgency, critical to low or low to critical
Cost Estimate	High-level cost estimation of work	Use filter to locate RR by RR cost estimate
Targeted Implementation Date	If known, the date the revision request is expected to be implemented	
<b>Enhancement and Defect Reports</b>		
<b>Column Header</b>	<b>Purpose</b>	<b>Filter Key Points</b>

Enhancement/Issue ID#	Tracking number assigned for the enhancement or defect	Use filter to locate enhancements/defects by IDR#
Primary Functional Area	SPP Business/System most impacted by the requested enhancement or defect.	Use to filter by functional area to view issues by SPP business areas and/or major systems.
Component	System and/or component of the system affected.	Use to filter by system component. The Component field may be blank if the solution has not been determined.
Enhancement/Defect Description	Brief description of the enhancement request or defect.	
Priority Grouping	<p>Assessment by SPP Staff of the priority group:</p> <ul style="list-style-type: none"> <li>• Current Release – Those items for which system changes or process/procedure changes are in progress. The in-service date will vary depending on the length of development and implementation effort</li> <li>• Release+1 – Items that are planned for inclusion in upcoming release(s). Release+1 may also include items with a longer-term implementation date due to their complexity, which are being worked as a higher priority.</li> <li>• Release+2 – Items that are planned for inclusion in the next release after Release+1 items.</li> <li>• Unplanned-A,B or C – Items in the queue not yet planned for a specific release. The sub-classification of A, B or C indicates priority within Unplanned, A being the higher, B being middle and C being the lowest priority of the Unplanned items.</li> <li>• Other – Items which a) need clarification, b) need further explanation of the benefits of the request, or c) cannot be placed in the queue for another reason.</li> </ul>	Use to filter by Priority grouping
Level of Complexity	Staff's assessment of how complex the item is to implement, taking all factors into consideration (High, Medium, Low or Unknown)	Use to filter by Level of Complexity
Severity	<p>Defines the criticality, according to the scale.</p> <ul style="list-style-type: none"> <li>• Critical</li> <li>• High</li> <li>• Medium</li> <li>• Low</li> </ul>	Use to sort by severity, critical to low or low to critical
Cost Estimate	High-level estimated cost of work based on internal and external man hours	Use filter to locate projects by projected cost estimate
Targeted Release ID	ID associated with the system release, patch, or change that is expected to contain the issue fix.	Filter by all, omitting "blanks", to view all issues that are expected in a planned (future) release. Blank Release ID fields indicate the issue has not yet been associated with a planned release.
Associated ID	Any identifier external to SPP's issue tracking ID, which is the originator of the issue, (e.g. MPRR, MCRR, RMS...).	Filter to view issues that originated from an RMS inquiry, MPRR, MCRR, etc. Use this filter to view data previously provided on the Revision Requests report by selecting all MPRR options in the filter.

Requesting/Identifying Party	Name of company (or companies) submitting the request/identifying the issue.	Filter to view items based on requesting party.
Issue Description	Describes the enhancement from the Market Participant's point of view.	
Date Created	Date on which the issue was opened in SPP's issue tracking system.	
Notes	Text field for any additional information about the issue.	
<b>Project Report</b>		
<b>Column Header</b>	<b>Purpose</b>	<b>Filter Options</b>
Project Number	Project ID within the SPP project portfolio for project identification and tracking	Use filter to locate projects by number
Project Category	The type of project (Marketplace systems, Major Membership Expansion, Major Technology, Other)	Use to filter by project category
Project Description	Brief description of the scope of the work in business terms	Use filter to locate projects by project description/name
Status	Status of the project, as defined by SPP's PMO: <ul style="list-style-type: none"> <li>• Active: Initiated,</li> <li>• Pending: Awaiting Initiation</li> <li>• Suspended: Put on hold</li> <li>• Closed: Completed/delivered</li> </ul>	Use filter to view projects by status
Phase	Current Phase of project: Example, Planning, Execution, Closing	Use filter to view projects by project phase
Priority	Priority for the project. Initial priority (High, Medium, Low, TBD) set by SPP Staff	Use filter to sort by priority
Score	Scores are calculated using the SPP Scoring Tool, which considers alignment with foundational strategies and strategic initiatives defined by the 2014 SPP Strategic Plan, as well as operational and technical efficiencies. (Initial priority score set by SPP Staff)	Use filter to locate projects by score
Cost Estimate	High-level estimated cost of work based on internal and external man hours, as well as other line item costs	Use filter to locate projects by projected cost estimate
Targeted Implementation Date	Planned implementation date	Use filter to locate projects by date range

# Finance Dashboard

Q1 2016

Metric	Chart	Previous Indicators			Indicator Threshold Values		
					Expected	Monitor	Concern
<b>Admin Fee Measurement (Forecast vs Budget)</b>							
		Jan-16	Feb-16	Mar-16			
Gross Revenue Requirement (GRR)	F.1	●	●	■	< = \$1.0 M	\$1.1 M to \$2.2 M	> = \$2.3 M
Net Revenue Requirement (NRR)	F.1	●	●	●	< = \$1.0 M	\$1.1 M to \$2.2 M	> = \$2.3 M
Admin Fee Revenue Collected	F.1	●	▼	▼	< = \$1.0 M	\$1.1 M to \$2.2 M	> = \$2.3 M
Over/(Under) Recovery	F.1	●	▼	▼	< = \$1.0 M	\$1.1 M to \$2.2 M	> = \$2.3 M
MWh Load	F.1	●	▼	▼	< = 3.0	3.1 to 5.8	> = 5.9
<b>Credit</b>							
		Jan-16	Feb-16	Mar-16			
Short Pays & Uncollected Amounts	F.2	●	●	●	Short Pays = \$0; Uncollected = \$0	Short Pays > \$0; Uncollected = \$0	Short Pays > \$0; Uncollected > \$0
<b>Settlement Disputes</b>							
		Jan-16	Feb-16	Mar-16			
Number of Open Disputes	F.3	●	●	●	< = 30	31 to 60	> 60
Average Days Outstanding	F.3	●	●	●	< = 30	31 to 45	> 45
Average Dispute Amount (millions)	F.3	●	●	●	< = \$1.0	\$1.1 to \$2.0	> \$2.0
Number of Resettlements	F.3	■	■	■	< = 50	51 to 90	> 90
<b>Human Resources</b>							
		Q3.15	Q4.15	Q1.16			
Quarterly Turnover Rate	F.4	●	●	■	< = 1.5%	1.51 to 2%	> 2%
Rolling 4 Qtr Turnover Rate	F.4	●	●	●	< 6%	6 to 8%	> 8%
Vacancy Rate	F.4	●	●	▼	< 5%	5 to 8%	> 8%

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F.1.1. Admin Fee Measurement

SPP Administrative Fee, Net Revenue Requirement & Load Metric  
 FY Forecast vs. Budget Variance  
 (millions)

	FY Forecast vs. Budget Variance as of:		
	Jan-2016	Feb-2016	Mar-2016
Gross Revenue Requirement (GRR)	(\$0.0) ■	(\$0.4) ■	(\$2.9) ■
Net Revenue Requirement (NRR)	(\$0.1) ■	(\$0.9) ■	(\$0.9) ■
Admin Fee Revenue Collected	(\$0.3) ■	(\$5.5) ■	(\$5.5) ■
Over/(Under) Recovery	(\$0.4) ■	(\$6.4) ■	(\$6.4) ■
MWh Load	(1.3) ■	(14.6) ■	(14.1) ■



## F.1.2. Admin Fee Measurement

SPP Administrative Fee, Net Revenue Requirement & Load Metric  
 FY Forecast as of March 31, 2016  
 (millions)

	2016 Forecast	2016 Budget	Fav /(Unfav)	
Gross Revenue Requirement (GRR)	\$184.4	\$181.6	(\$2.9)	■
Net Revenue Requirement (NRR)	\$151.4	\$150.5	(\$0.9)	■
Admin Fee Revenue Collected	\$144.9	\$150.4	(\$5.5)	■
Over/(Under) Recovery	(\$6.5)	(\$0.1)	(\$6.4)	■
MWh Load	393.1	407.2	(14.1)	■

Legend

	NRR	MWh	Admin Fee
2016 Budget	\$150.5	407.2	\$0.37
1¢ Unfavorable NRR Threshold	\$152.8	407.2	\$0.38
1¢ Unfavorable Load Threshold	\$150.5	401.3	\$0.38
1¢ Unfavorable Impact Factor	(\$2.3)	(5.9)	(\$0.01)

Revenues

Red	■	> = \$2.3 unfavorable
Yellow	■	between \$1.1 and \$2.2 unfavorable
Green	■	< = \$1.0 unfavorable

MWh Load

Red	■	> = 5.9 unfavorable
Yellow	■	between 3.1 and 5.8 unfavorable
Green	■	< = 3.0 unfavorable

### F.1.3 Admin Fee Measurement

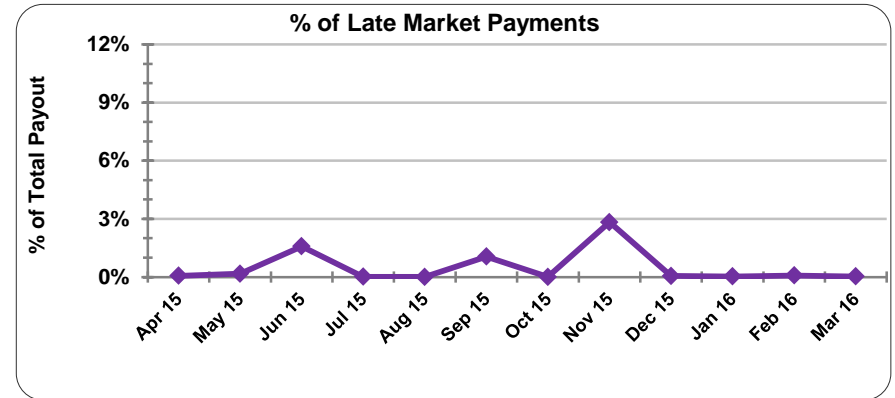
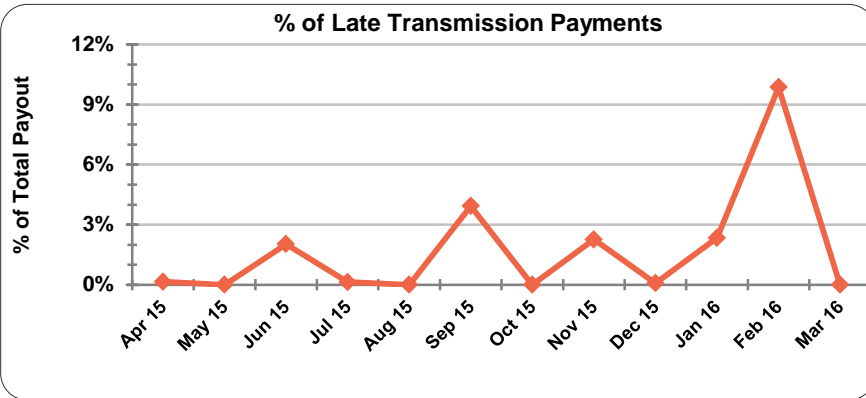
SPP Net Revenue Requirement Components  
 FY Forecast as of March 31, 2016  
 (millions)

<u>Expenses</u>	<u>2016 Forecast</u>	<u>2016 Budget</u>	<u>Fav /(Unfav)</u>	
Salary & Benefits	\$88.0	\$85.2	(\$2.9)	(3.4%)
Debt Service (Principal & Interest)	34.6	34.8	0.1	0.3%
Communications & Maintenance	20.8	20.9	0.1	0.7%
FERC Assessments & Fees	17.0	17.0	(0.0)	(0.0%)
Outside Services & RSC	15.5	15.1	(0.4)	(2.8%)
Administrative	5.2	5.2	0.0	0.4%
Travel & Meetings	3.3	3.4	0.2	4.4%
Gross Revenue Requirement (GRR)	<u>\$184.4</u>	<u>\$181.6</u>	<u>(\$2.9)</u>	<u>(1.6%)</u>
<u>Revenue &amp; Other Adjustments</u>				
Assessments & Fees	(\$17.0)	(\$17.0)	\$0.0	0.0%
NERC Revenues *	(9.8)	(10.4)	(0.6)	(6.0%)
Other Revenues	(4.9)	(4.7)	0.1	2.5%
NRR Adjustments	(1.3)	1.1	2.5	(220.6%)
Net Revenue Requirement (NRR)	<u>\$151.4</u>	<u>\$150.5</u>	<u>(\$0.9)</u>	<u>(0.6%)</u>
* Net Impact RE Expense & NERC Funding	\$4.0	\$4.2	(\$0.2)	(3.9%)

## F.1.4. Admin Fee Measurement

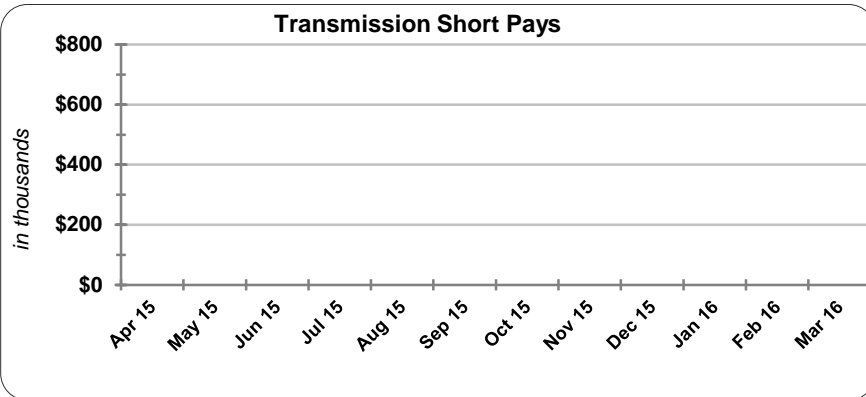
SPP Administrative Fee Performance										
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<u>Approved Budget</u>										
Net Revenue Required (millions)	\$52.8	\$61.5	\$56.5	\$68.4	\$78.4	\$89.6	\$121.8	\$132.6	\$141.2	\$150.5
MWh Load (millions)	288.6	312.5	331.3	333.5	343.0	353.5	360.9	348.2	363.5	407.2
NRR / MWh Load	\$0.183	\$0.197	\$0.170	\$0.205	\$0.228	\$0.253	\$0.337	\$0.381	\$0.389	\$0.370
Approved Admin Fee	\$0.190	\$0.190	\$0.170	\$0.195	\$0.210	\$0.255	\$0.315	\$0.381	\$0.390	\$0.370
<u>Actual / Forecast</u>										
Net Revenue Required (millions)	\$48.0	\$58.1	\$59.8	\$63.5	\$80.8	\$84.8	\$123.3	\$137.0	\$142.6	\$151.4
MWh Load (millions)	301.1	296.1	328.2	331.6	341.4	361.7	357.5	351.0	373.6	393.1
NRR / MWh Load	\$0.159	\$0.196	\$0.182	\$0.191	\$0.237	\$0.234	\$0.345	\$0.390	\$0.382	\$0.385
Calculated Rate Over/(Under) Budget	(\$0.024)	(\$0.001)	\$0.012	(\$0.014)	\$0.008	(\$0.019)	\$0.007	\$0.009	(\$0.008)	\$0.016
Load Growth	5.12%	(1.65%)	10.82%	1.05%	2.96%	5.93%	(1.15%)	(1.83%)	6.46%	5.20%

**F.2. Credit**



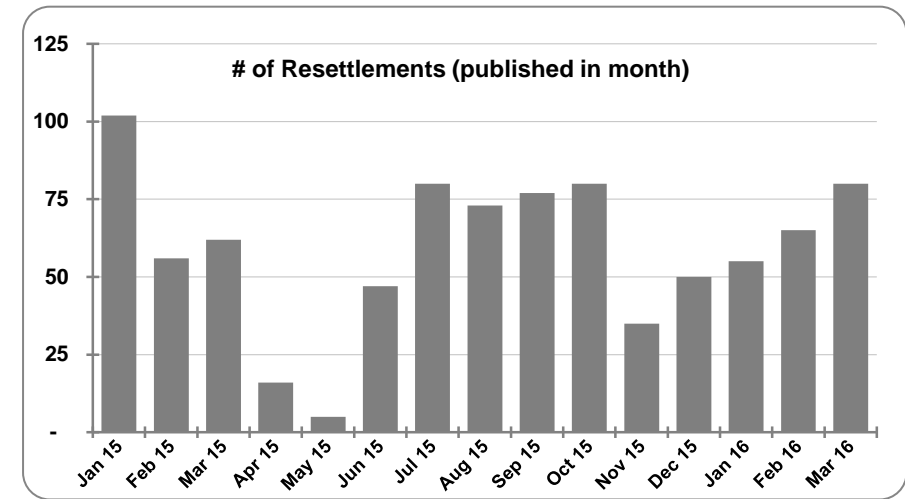
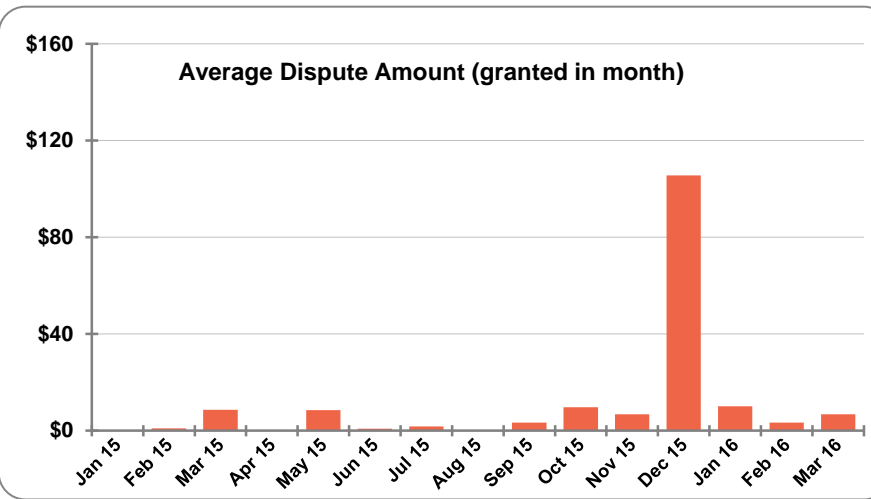
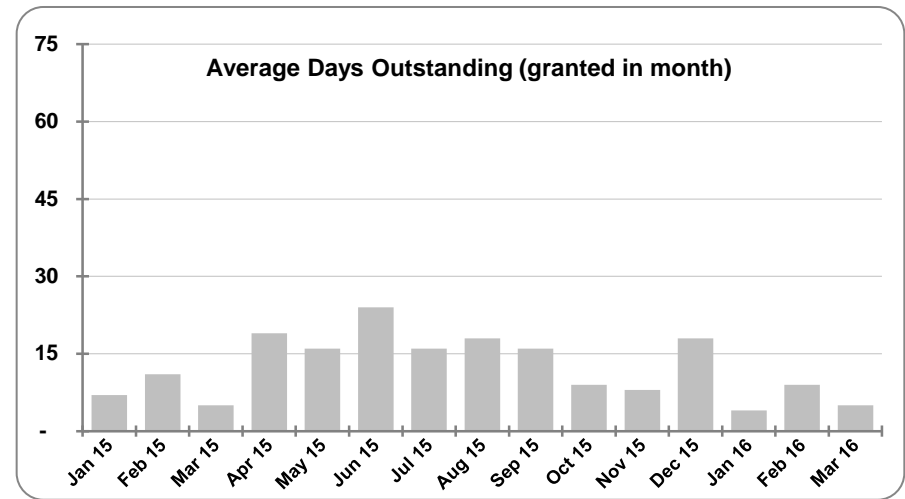
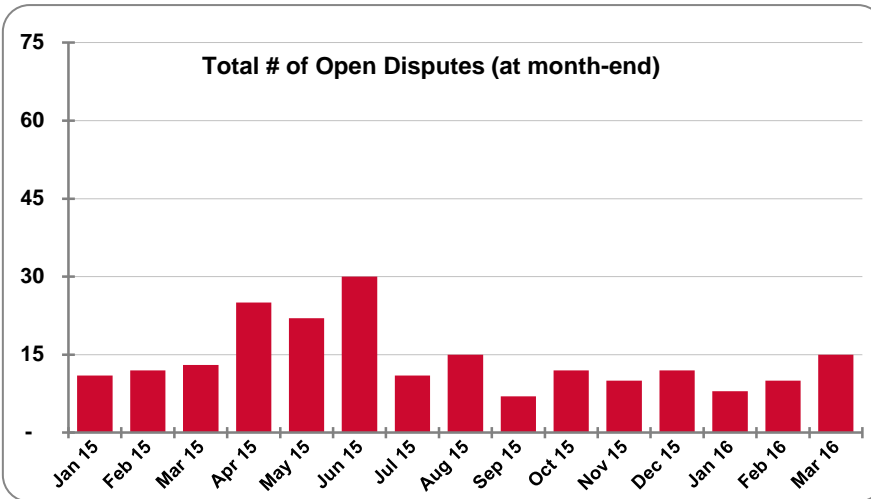
<i>in thousands</i>	Apr 15	May 15	Jun 15	Jul 15	Aug 15	Sep 15	Oct 15	Nov 15	Dec 15	Jan 16	Feb 16	Mar 16	12 mo
Late Transmission Payments	\$64	\$0	\$579	\$54	\$0	\$1,289	\$0	\$996	\$47	\$932	\$3,666	\$1	\$7,628
Total Transmission Payments	\$41,098	\$39,967	\$28,523	\$40,179	\$42,699	\$32,757	\$43,120	\$43,984	\$60,945	\$39,754	\$37,179	\$41,435	\$491,640
% Late Payments	0.2%	0.0%	2.0%	0.1%	0.0%	3.9%	0.0%	2.3%	0.1%	2.3%	9.9%	0.0%	1.6%

<i>in thousands</i>	Apr 15	May 15	Jun 15	Jul 15	Aug 15	Sep 15	Oct 15	Nov 15	Dec 15	Jan 16	Feb 16	Mar 16	12 mo
Late Market Payments	\$38	\$88	\$200	\$8	\$4	\$563	\$2	\$1,439	\$34	\$17	\$35	\$10	\$2,438
Total Market Payments	\$64,205	\$51,558	\$12,662	\$72,598	\$62,588	\$53,268	\$64,394	\$50,835	\$63,801	\$52,889	\$44,721	\$38,378	\$631,897
% Late Payments	0.1%	0.2%	1.6%	0.0%	0.0%	1.1%	0.0%	2.8%	0.1%	0.0%	0.1%	0.0%	0.4%



<i>in thousands</i>	Apr 15	May 15	Jun 15	Jul 15	Aug 15	Sep 15	Oct 15	Nov 15	Dec 15	Jan 16	Feb 16	Mar 16	12 mo
Transmission Short Pays	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market Short Pays	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14	\$0	\$0	\$0	\$14

F.3. Settlement Disputes



	Jan 15	Feb 15	Mar 15	Apr 15	May 15	Jun 15	Jul 15	Aug 15	Sep 15	Oct 15	Nov 15	Dec 15	Jan 16	Feb 16	Mar 16
Total # of Open Disputes (at month-end)	11	12	13	25	22	30	11	15	7	12	10	12	8	10	15
Average Days Outstanding (granted in month)	7	11	5	19	16	24	16	18	16	9	8	18	4	9	5
Average Dispute Amount (granted in month)	\$0.1	\$0.9	\$8.7	\$0.3	\$8.6	\$0.8	\$1.8	\$0.0	\$3.3	\$9.7	\$6.8	\$105.6	\$10.1	\$3.4	\$6.7
# of Resettlements (published in month)	102	56	62	16	5	47	80	73	77	80	35	50	55	65	80

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## Memorandum

**To:** SPP Finance Committee  
**From:** Phil McCraw  
**CC:** Scott Smith  
**Date:** July 6, 2016  
**Re:** CPWG Activities

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The CPWG conducted meetings on April 21, 2016 and June 16, 2016.

The primary topic of both meetings was the use of reference prices in SPP's calculation of potential exposure. The CPWG is evaluating the impact of the stress test price on TCR final reference prices and the effectiveness of the stress test price in capturing the settled historical marginal congestion cost prices.

The secondary topic is amendments to the SPP Credit Policy and Guaranty form to allow for some limitations in the guarantee.

The CPWG will begin its review of the use of positive value TCRs as collateral in the second half of 2016.