

Entergy Arkansas, Inc., Third Revised Rate Schedule FERC No. 94
Entergy Gulf States Louisiana, L.L.C., Rate Schedule FERC No. 181
Entergy Louisiana, LLC, Third Revised Rate Schedule FERC No. 69
Entergy Mississippi, Inc., Third Revised Rate Schedule FERC No. 262
Entergy New Orleans, Inc., Third Revised Rate Schedule FERC No. 8
Entergy Texas, Inc., Rate Schedule FERC No. 181

Original Sheet No. 75

This Service Schedule MSS-6 shall be attached to and become a part of the Agreement dated the 23rd day of April, 1982 and shall be effective with said Agreement or at such later date as may be fixed by any requisite regulatory approval or acceptance for filing.

Attest

ARKANSAS POWER & LIGHT COMPANY

Original signed by
R. J. Estrada
Assistant Secretary

Original signed by
Jerry Maulden
President

Attest

LOUISIANA POWER & LIGHT COMPANY

Original signed by
W. H. Talbot
Secretary

Original signed by
J. M. Wyatt
President

Attest

MISSISSIPPI POWER & LIGHT COMPANY

Original signed by
R. J. Estrada
Assistant Secretary

Original signed by
D. C. Lutken
President

Attest

NEW ORLEANS PUBLIC SERVICE INC.

Original signed by
William C. Nelson
Secretary

Original signed by
James M. Cain
President

Issued by: Kimberly Despeaux
Associate General Counsel

Effective: November 22, 2008

Issued on: November 21, 2008

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SERVICE SCHEDULE MSS-7

MERGER FUEL PROTECTION PROCEDURE

70.01 Purpose

This Service Schedule provides a procedure for protecting the participating Companies from incurring higher fuel and purchased power costs as a result of the merger with Gulf States. For a Company which incurs an increase in its fuel costs as a result of the merger, the increase in cost will be transferred back to the companies obtaining fuel savings in proportion to those savings, in accordance with the following provisions.

70.02 Participating Companies

Companies covered by this Service Schedule shall include Gulf States and any other Company notifying the Operating Committee prior to the first calculation performed pursuant to 70.03 of its intent to participate and that its participation has the approval of the regulatory agency with jurisdiction over the Company's retail rates. Any Company directed to participate by its retail regulator shall do so.

70.03 Calculation Procedure of Fuel Cost Changes

Each year after the effective date of the Entergy-Gulf States Merger (Merger), merger-related fuel cost changes (MRFC) will be Calculated for each Company in accordance with 70.05. The MRFC will be used to calculate a Cumulative Fuel Change Balance (CFCB) for each Company, as follows:

$$\text{Year ending CFCB} = (\text{Year beginning CFCB} \times (1 + i)) + \text{MRFC}$$

where: i = the average yield on ten-year U.S. Treasury Notes for the year just ended.

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At the end of each of the years prior to the final year, if the CFCB is negative for one or more Companies and positive for one or more Companies, then 50 percent of the Company's positive CFCB (i.e., higher fuel costs due to the merger) shall be transferred to the CFCB of the Company or Companies with a negative balance. At the end of the tenth year (or such shorter period of time as set forth in Section 70.04) of this procedure, the above procedure will apply except that the full amount (100%) of a positive CFCB will be transferred subject to the limitation that such transfer does not cause the CFCB to become positive for another Company. For the Companies receiving the transferred amount, the transfer shall be allocated in proportion to each Company's percentage of the total of the negative balances of the participating companies.

Any year after a positive amount is transferred from a Company's CFCB and that Company's CFCB subsequently becomes negative, then such previous transfers will be reversed to the extent the reversals do not cause the Company's CFCB to become positive.

70.04 Limitation of Term

This procedure shall apply for the shorter of: (1) the ten years following the effective date of the merger, or (2) the period between the effective date of the merger and the date of implementation of retail access in a jurisdiction in which one of the Companies operate.

70.05 Fuel Cost Change Measurement Procedure

Merger-related fuel cost changes (MRFC) for each Company are measured annually as the difference between estimated stand-alone fuel costs (SAFC) and estimated merger fuel costs (MFC), where:

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SAFC = The estimated annual cost of fuel and purchased energy incurred to serve the Company's net area dispatch, as determined by a simulation of the dispatch of generating units and system operations under stand-alone (non-combined) operation of the Gulf States and Entergy System (excluding Gulf States) using Entergy's most current delivery of the PROMOD III production cost model and the input assumptions set forth in 70.06.

MFC = The estimated annual cost of fuel and purchased energy incurred to serve a Company's net area requirements as determined by a simulation of the dispatch of generating units and system operations under merged operation (combined) of the system using Entergy's most current delivery of the PROMOD III production cost model and the input assumptions set forth in 70.06.

70.06 Input Assumptions for Production Cost Simulations

Customer Loads

Actual hourly net area load, without off-system sales transactions, will be used as hourly load inputs.

Resources

The Gulf States and Entergy resources available to meet customer loads shall be those reflected in Entergy's most recent Business Plan applicable to that year.

Generating Unit Efficiency

The heat rate data shall be the then current data used in Entergy's Bulk Power Management system (BPMS).

Generating Unit Availability

Generating unit availability data (available MW's for each generating unit) shall be those reflected in the BPMS data for that time period.

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System Operating Constraints

All generating unit constraints, fuel constraints, and transmission constraints as represented in Entergy's most current Business Plan applicable to that year will be reflected in the input assumptions. However, the transmission constraint known as Amite South shall be changed after the end of the fifth post merger year in the Entergy stand-alone analysis to that contained in the merger analysis for the remaining time period.

Fuel Costs

- Nuclear -- Actual monthly fuel cost as used in the Intra-System Billing (ISB) program will be used as the nuclear fuel cost input.
- Coal -- Actual monthly fuel cost as used in the ISB program will be used as the coal fuel cost input except that the stand-alone fuel cost for North Antelope coal shall be multiplied by the ratio of the stand-alone cost of North Antelope coal to the merger cost of North Antelope coal for each Entergy coal unit as reflected in 70.08.
- Gas/Oil -- Fuel cost for each gas/oil unit will be based on actual weighted average fuel cost for each unit as calculated from fuel cost inputs to the ISB program.

Off System Economy Purchases

The simulations will reflect the off-system economy sources listed in 70.09. For the stand-alone simulations, these sources will be allocated to Gulf States and Entergy based on the most current year ending load responsibility ratios. The pricing of these transactions will be based on the actual monthly average on-peak and off-peak price of economy energy purchases, as determined by the ISB, plus a \$2/MWH markup for each transaction for which Gulf States would require wheeling service from Entergy.

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In addition, the Gulf States stand-alone simulation will also reflect a 300 MW off-peak source to be priced at the actual average monthly off-peak price of economy energy purchases as determined by the ISB. The available capacity for each Entergy stand-alone off-system economy source, as determined above, will be increased (to reflect economy energy not taken in the Gulf States stand-alone simulation) by the following method:

IMW = Monthly on-peak and off-peak increase for each Entergy stand-alone off-system economy source rounded at the nearest whole MW.

$$= \text{AMW} \times (1 - \text{CF})$$

where:

AMW = The available capacity (MW) for the off-system economy source in the Gulf States stand-alone.

CF = Monthly on-peak or off-peak capacity factor at which energy is taken in the Gulf States stand-alone simulation for the off-system economy source.

Operating Reserves

An operating reserve level of 6 percent of annual peak will be reflected in the input assumptions.

70.07 PROMOD Benchmark

A benchmark of PROMOD based on the actual 1992 and 1997 operating data will be made to verify the reasonableness of the model.

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70.08 North Antelope Coal Prices

The following ratios will be used to increase the actual North Antelope coal prices used in the stand-alone simulation case:

Year	Stand Alone (\$/MMBtu)	Combined (\$/MMBtu)	Ratio
1994	1.8261	1.7910	1.0196
1995	1.8997	1.8500	1.0269
1996	1.9423	1.9190	1.0122
1997	2.0918	2.0240	1.0335
1998	2.2096	2.1760	1.0155
1999	2.2556	2.2160	1.0179
2000	2.3466	2.2960	1.0221
2001	2.4274	2.3800	1.0199
2002	2.5114	2.4830	1.0114
2003	2.6041	2.5690	1.0137

70.09 Joint Dispatch Economy Purchase Capacities

The following off-system economy resources will be used in the PROMOD simulations, with the figures below being capacity in MW :

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Company	Type of Purchase	Month	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
AECI	On Peak & Off Peak	Year Round	400	400	400	400	400	400	400	400	400	400
Cajun	On Peak & Off Peak	Jan.	200	200	200	200	200	200	200	200	200	200
Cajun	On Peak & Off Peak	Feb.	200	200	200	200	200	200	200	200	200	200
Cajun	On Peak & Off Peak	Mar.	200	200	200	200	200	200	200	200	200	200
Cajun	On Peak & Off Peak	Apr.	200	200	200	200	200	200	200	200	200	200
Cajun	On Peak & Off Peak	May	110	95	80	120	100	160	160	160	160	160
Cajun	On Peak & Off Peak	Jun.	110	95	80	120	100	160	160	160	160	160
Cajun	On Peak & Off Peak	Jul.	110	95	80	120	100	160	160	160	160	160
Cajun	On Peak & Off Peak	Aug.	110	95	80	120	100	160	160	160	160	160
Cajun	On Peak & Off Peak	Sep.	200	200	200	200	200	200	200	200	200	200
Cajun	On Peak & Off Peak	Oct.	200	200	200	200	200	200	200	200	200	200
Cajun	On Peak & Off Peak	Nov.	200	200	200	200	200	200	200	200	200	200
Cajun	On Peak & Off Peak	Dec.	200	200	200	200	200	200	200	200	200	200
Empire	On Peak & Off Peak	Year Round	50	50	50	50	50	50	50	50	50	50
Oklahoma	On Peak Only	Year Round	300	300	300	300	300	300	300	300	300	300
Oklahoma	On Peak & Off Peak	Year Round	250	150	60	0	0	0	0	0	0	0
Southern	On Peak & Off Peak	Year Round	75	75	75	75	50	50	50	50	50	50
SWEPCO	On Peak & Off Peak	Year Round	100	100	100	100	100	100	100	100	100	100
SWEPCO	On Peak Only	Year Round	200	200	200	200	200	200	200	200	200	200
TVA	On Peak & Off Peak	Year Round	1,000	1,000	1,000	750	500	500	500	500	500	500
Union EL	On Peak & Off Peak	Year Round	400	400	400	400	400	400	400	400	400	400

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This exhibit contains information that is highly sensitive and will be provided under the terms of the terms of the Protective Order (Confidentiality Disclosure Agreement) entered in this case.

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DOCKET NO. 41791

APPLICATION OF ENTERGY	§	PUBLIC UTILITY COMMISSION
TEXAS, INC. FOR AUTHORITY TO	§	
CHANGE RATES AND RECONCILE	§	OF TEXAS
FUEL COSTS	§	

DIRECT TESTIMONY

OF

ANDREW J. O'BRIEN

ON BEHALF OF

ENTERGY TEXAS, INC.

SEPTEMBER 2013

ENTERGY TEXAS, INC.
DIRECT TESTIMONY OF ANDREW J. O'BRIEN
2013 RATE CASE

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EXHIBITS

Exhibit AJO-1	Relationship of Various Wholesale Transactions
Exhibit AJO-2	ETI Non-Associated System Purchases
Exhibit AJO-3	Summary of ETI Cogeneration Purchases

I. INTRODUCTION

Q1. PLEASE STATE YOUR NAME, BUSINESS ADDRESS, EMPLOYER, JOB TITLE AND RESPONSIBILITIES.

A. My name is Andrew J. O'Brien. My business address is 10055 Grogans Mill Road, Parkwood II Building, Suite 300, The Woodlands, 77380. I am employed by Entergy Services, Inc. ("ESI"), as Director, Power Transactions and Dispatch in the Energy Management Organization ("EMO") within the System Planning and Operations ("SPO") organization. In that capacity, among other activities, I am responsible for overseeing the group responsible for the purchase and sale of bulk power for the electric utility Operating Companies of the Entergy System.¹ ESI is an affiliate of the Operating Companies which provides engineering, planning, accounting, technical, and regulatory support services to each of the Operating Companies, including ETI. These services include those performed by the SPO organization, such as the procurement of fuel and purchased power for the Operating Companies and the operation of the Entergy System. ESI frequently serves as agent for the Operating Companies in connection with wholesale transactions. Although each individual Operating Company owns its generating resources and transmission assets, the Entergy System is planned and operated as a

¹ The six Entergy Operating Companies are Entergy Arkansas, Inc. ("EAI"), Entergy Gulf States Louisiana, L.L.C. ("EGSL"), Entergy Louisiana, LLC ("ELL"), Entergy Mississippi, Inc. ("EMI"), Entergy Texas, Inc. ("ETI") and Entergy New Orleans, Inc. ("ENO"). The electric generation and bulk transmission assets of these six Operating Companies are operated on a coordinated basis as a single electric system, referred to as the "Entergy System" or the "System."

1 single, integrated system pursuant to the terms and conditions of the
2 Entergy System Agreement.²

3
4 Q2. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND
5 PROFESSIONAL EXPERIENCE.

6 A. I have been employed by ESI since June 2001. During my career, I have
7 held numerous positions, including my current leadership position, in the
8 areas of commercial negotiations, regulatory, generation dispatch
9 operations as well as resource and operations planning. In June 2001, I
10 accepted a position as Next Day Scheduler in the power marketing
11 department of the EMO. From 2003 to 2006, I worked as a Generation
12 System Dispatcher and then as the Senior Lead Analyst in the Current
13 Day Operations group. In 2007, I accepted the role of Wholesale
14 Executive in the Supply Procurement department and was promoted in
15 2008 to Manager, Supply Procurement. In this role, I gained significant
16 experience negotiating long-term resource acquisitions, both asset
17 purchases and power purchase agreements. In 2010, I accepted a
18 position within the EMO as Manager, Operations Support with
19 responsibility for overseeing the development and implementation of the

² The Entergy System Agreement, discussed in the testimony of Company witness Michael J. Goin, is a FERC-approved rate schedule and contract entered into among ESI and the Operating Companies, which requires the Operating Companies to plan, construct and operate their electric generation and bulk transmission facilities as a single, integrated electric system. It is administered by the Entergy Operating Committee. EAI and EMI have provided notice to the other Operating Companies that they are terminating their participation in the System Agreement effective December 2013 and November 2015, respectively, or on such earlier dates as the FERC may permit.

1 next-day resource plan including generation commitment and system load
2 forecast. In September 2011, I assumed the position of Manager, Power
3 Marketing, and in February 2013, I was promoted to my current role. I
4 have a Master of Business Administration degree from Texas A&M
5 University and a Bachelor of Science degree in Psychology from
6 Louisiana State University.

7

8 Q3. ON WHOSE BEHALF ARE YOU TESTIFYING?

9 A. I am testifying on behalf of ETI.

10

11 II. PURPOSE OF TESTIMONY

12 Q4. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

13 A. The purpose of my testimony is to provide an overview of the Power
14 Marketing Team and its wholesale power procurement strategies,
15 practices, and procedures during the period July 1, 2011 through
16 March 31, 2013 (the "Reconciliation Period"). My testimony:

- 17 • describes the Entergy System's purchase power mix in the context
18 of overall System planning objectives;
- 19 • describes contract negotiations, contract administration and
20 procurement processes pertinent to the Reconciliation Period; and
- 21 • illustrates that the Power Marketing Team maintained effective cost
22 controls with respect to its wholesale power transactions.

1 III. WHOLESALE POWER MARKETS

2 A. Overview of Market Conditions

3 Q5. PLEASE EXPLAIN THE SIGNIFICANCE OF PURCHASED POWER
4 DURING THE RECONCILIATION PERIOD.

5 A. During the Reconciliation Period, purchased power served base load,
6 intermediate, and peaking functions in meeting the Company's load
7 obligations. Because of the reliance on purchased power during the
8 Reconciliation Period, it was important that the purchased power portfolio
9 be reliable and flexible as well as economical.

10

11 Q6. PLEASE DESCRIBE THE WHOLESALE POWER MARKET
12 CONDITIONS THAT THE COMPANY FACED DURING THE
13 RECONCILIATION PERIOD.

14 A. During the Reconciliation Period the wholesale power markets were stable
15 with some mild volatility. However, the Company continued to receive
16 substantial amounts of energy "put" to the Operating Companies by
17 Qualifying Facilities ("QFs"), reducing the ability to utilize the market for
18 standard products.

19

20 Q7. PLEASE EXPLAIN FURTHER HOW QF PUTS HAVE AFFECTED THE
21 COMPANY'S PROCUREMENT EFFORTS?

22 A. The abundance of QF energy effectively limited the Company's ability to
23 purchase energy from other third-party merchant generators because

1 those two types of suppliers generally offer limited types of power
2 products. Neither the QFs nor other third-party merchant generators have
3 been willing to provide material levels of power that can be used to match
4 the ever-changing load of the Company. However, the System has
5 worked to provide opportunities for third-party generators to supply energy
6 when they can do so at a lower cost than the cost of the Company's
7 owned or controlled resources.

8

9 Q8. WHAT EFFORTS WERE UNDERTAKEN TO ADDRESS THE
10 CHALLENGES PRESENTED BY THE LARGE NUMBER OF QF PUTS?

11 A. The Company's efforts included the use of weekly, monthly, and other
12 short-term purchases (less than one year) from these generators at a
13 defined heat rate that locked in more efficient generation for the Operating
14 Companies. These purchases are described in more detail in the direct
15 testimony of Company witness Devon S. Jaycox and later in
16 my testimony.

17 The Company's efforts further included long-term resource
18 planning. During the Reconciliation Period, the SPO determined the types
19 of resources that were necessary to meet the load requirements and the
20 various supply role needs of the Entergy System, including ETI, based on
21 the planning objectives laid out in the Strategic Resource Plan ("SRP").
22 Company witness Robert R. Cooper discusses long-term planning and

1 strategies, as well as acquisitions that were made pursuant to the Summer
2 2009 RFP.

3

4 B. Wholesale Purchase Power Mix

5 Q9. PLEASE SUMMARIZE THE EXPENSES THAT YOU WILL ADDRESS IN
6 THIS SECTION OF YOUR TESTIMONY.

7 A. The Power Marketing Team is responsible for the procurement and sale of
8 short-term wholesale power. In this section of my testimony, I discuss the
9 mix of long-term purchases, short-term purchases, and purchases from
10 QFs during the Reconciliation Period that are shown in Figure AJO-1 of
11 my testimony. As previously discussed, Company witness Cooper
12 addresses the procurement of longer-term purchased power transactions.
13 Company witnesses Michael J. Goin and Cooper address the allocation of
14 the costs and revenues associated with wholesale power transactions,
15 including power purchased or exchanged with ETI's affiliated (or
16 "Associated") Operating Companies, pursuant to the FERC-approved
17 Entergy System Agreement.

1 Q10. WHAT IS THE MIX OF POWER PURCHASED FOR THE SYSTEM
2 DURING THE RECONCILIATION PERIOD?

3 A. Figure AJO-1, below, shows the mix of long-term purchases, short-term
4 purchases, and purchases from QFs during the Reconciliation Period.

Figure AJO-1
Mix of Purchased Power for the System

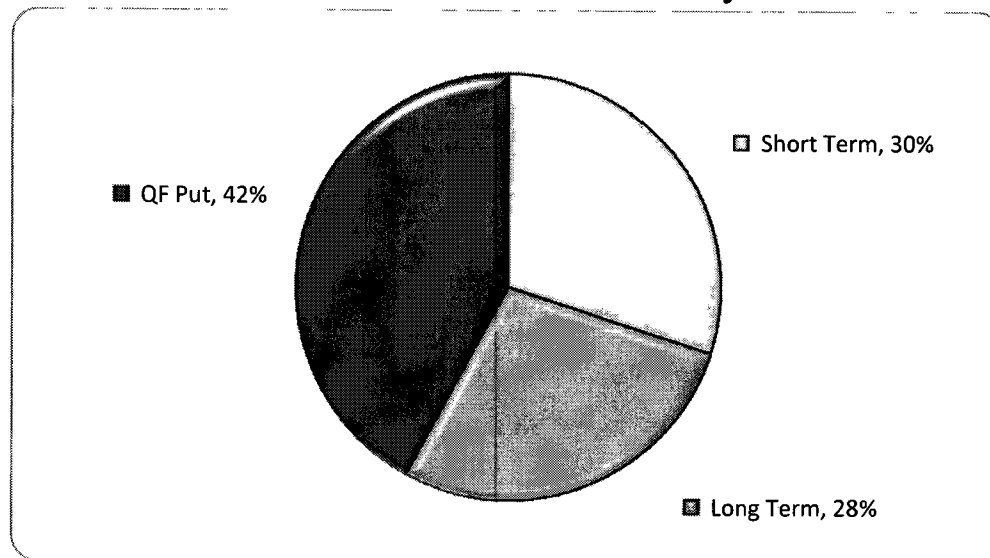
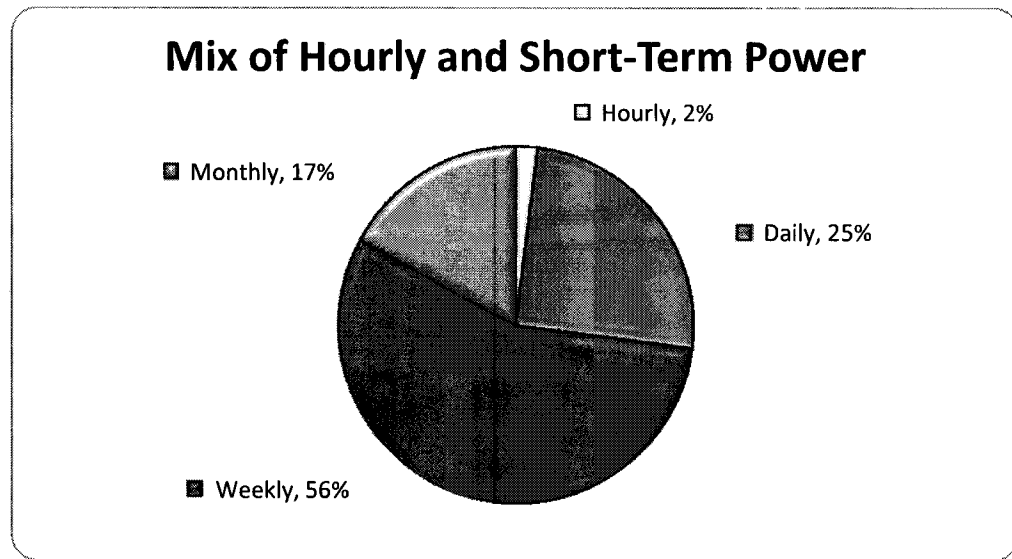


Figure AJO-2, below, shows a more detailed breakdown of the short-term purchases into hourly, daily, weekly, and monthly purchases.

Figure AJO-2
Mix of Hourly and Short-Term Power



IV. RESPONSIBILITIES OF THE POWER MARKETING TEAM

Q11. DESCRIBE THE RESPONSIBILITIES OF THE POWER MARKETING TEAM.

A. The Power Marketing Team is the team within the SPO responsible for the procurement of purchased power with a term of one year or less. The Power Marketing Team is responsible for the purchase and sale of wholesale bulk power for the Operating Companies, including ETI, within the Entergy System.

The Power Marketing Team does not directly determine how much electricity to purchase or sell. As explained more fully in the Direct

1 Testimony of Company witness Jaycox, these decisions are made by
2 various teams within SPO, including EMO. Members of the Power
3 Marketing Team participate with various planning teams, providing input
4 about market conditions, especially price and availability of purchased
5 power. Once these planning teams determine the appropriate quantities
6 of power that should be purchased or sold for the benefit of the System,
7 the Power Marketing Team performs the actual procurement or sale of
8 short-term purchased power.

9 The overall responsibilities of the Power Marketing Team are to:

- 10 • conduct wholesale transactions operations in a manner that
11 supports the System's commitment to provide quality service and a
12 reliable supply of electric energy;
- 13 • acquire supplies of power that provide flexibility at a reasonable
14 price under the facts and circumstances known or reasonably
15 knowable at the time;
- 16 • administer existing wholesale contracts in a manner that ensures a
17 reasonable System cost;
- 18 • market excess energy when the sales price exceeds the anticipated
19 System incremental cost to supply the sales; and
- 20 • participate in the planning process by supplying market prices,
21 availability, and other information regarding purchased power
22 resources.

1 A. Wholesale Transactions

2 Q12. PLEASE DESCRIBE THE ROLE OF WHOLESALE TRANSACTIONS IN
3 THE COMPANY'S ENERGY MIX.

4 A. Exhibit AJO-1 summarizes the relationship of various wholesale
5 transactions that contribute to the System's overall energy mix. There are
6 two categories of purchases and sales: System and Non-System. System
7 Transactions refer to the acquisition or allocation of power by or among
8 the six Operating Companies pursuant to the terms of the System
9 Agreement. Non-System Transactions are wholesale purchases made
10 directly by ETI.

11 System Transactions are broken out into sub-categories:
12 Associated and Non-Associated. Associated transactions consist of the
13 allocations of power or costs under the System Agreement Service
14 Schedules MSS-1 Reserve Equalization, MSS-3 Exchange of Energy
15 among Companies, and MSS-4 Unit Power Purchase.

16 Service Schedule MSS-1 prescribes the method for equalizing
17 among the Operating Companies the capability and ownership cost of the
18 reserve generating capability of the System. The reserve capability is the
19 capability in excess of the System's actual or planned load that was built
20 or acquired in order to ensure reliable and efficient operation of the
21 System.

22 Service Schedule MSS-3 provides for the joint economic dispatch
23 of the System, requiring that the energy from each of the Operating

1 Companies' available resources, and the associated costs, be allocated
2 among the Operating Companies. As a result of the joint economic
3 dispatch of the System, ETI may provide energy from its generation to
4 other Operating Companies and vice versa. Service Schedule MSS-4 is
5 used for the purchase and sale of unit contingent power between
6 Operating Companies.

7 Non-Associated System Purchases and Sales consist of
8 transactions with non-affiliated third parties. These transactions may be
9 made for the benefit of the System as a whole and allocated among all of
10 the Operating Companies, or the purchases or sales may be made on
11 behalf of fewer than all of the Operating Companies. Company witnesses
12 Goin and Jaycox explain how the energy, costs, and revenues from these
13 transactions are allocated among the Operating Companies under the
14 terms of the System Agreement. I will address how and when the System
15 enters into these transactions.

16 Non-System Purchases and Sales are those purchases and sales
17 executed directly between ETI and other non-affiliated entities. The
18 energy, costs, and revenues of these purchases and sales are initially
19 assigned to the Company. Non-System Purchases include capacity
20 purchases and cogeneration purchases as shown in Schedule H-12.4a-g.
21 Non-System Sales include the sale of emergency (or backup) power to
22 third parties.

1 Q13. WHO IS RESPONSIBLE FOR MANAGING THE ABOVE-MENTIONED
2 NON-ASSOCIATED SYSTEM AND NON-SYSTEM PURCHASES AND
3 SALES?

4 A. With the exception of QF non-firm energy put to the Entergy System,
5 which I describe later in my testimony, the Power Marketing Team is
6 responsible for managing Non-Associated System and Non-System
7 purchases and sales. The Power Marketing Team also manages long-
8 term and limited-term contracts after their execution, having the
9 responsibility for scheduling the power and obtaining the transmission.
10

11 Q14. WHAT ARE THE OBJECTIVES OF THE POWER MARKETING TEAM?

12 A. One objective of the Power Marketing Team is to purchase energy in the
13 wholesale market when it is more economical than utilizing the System's
14 own generation. Another objective is to purchase energy in the wholesale
15 market when necessary to maintain system reliability. Additionally, the
16 Power Marketing Team may sell energy into the wholesale market that is
17 not committed to the needs of the customers of the Operating Companies,
18 or when such sales are necessary to maintain system reliability. The
19 revenues from the sale of power are credited to fuel and purchased power
20 expenses.

1 Q15. WHAT PROCESS IS USED FOR ACCOMPLISHING THE ABOVE
2 OBJECTIVES?

3 A. The Power Marketing Team monitors the wholesale power markets for
4 price and availability of power to purchase and for opportunities to make
5 sales. To accomplish this, the Power Marketing Team is divided into five
6 sub-teams based on the time frame of the intended transaction.

7 The first sub-team, which is part of the Current Day Team
8 described in Company witness Jaycox's testimony, deals with the hourly
9 power markets and works in shifts in order to cover the market 24 hours a
10 day, seven days a week, 52 weeks a year. This sub-team focuses on
11 short-term economic purchase opportunities, and reliability purchases
12 necessitated by changes in System operations or load.

13 The second sub-team interfaces with the next-day, next-week, and
14 monthly power markets and looks for opportunities to avoid dispatching
15 generation resources or buying fuel when purchased power is a more
16 economical alternative. This sub-team is a part of the Next-Day Team
17 described by Company witness Jaycox.

18 The third sub-team interfaces closely with the Monthly Energy
19 Planning Process team. Company witness Jaycox describes the monthly
20 process in more detail. The Monthly Energy Planning Process includes a
21 Monthly RFP that requires a survey by the Power Marketing Team
22 regarding the purchased power price and availability for the upcoming
23 month. Concurrently, market participants are solicited for monthly

1 proposals to sell power to the System. Analysis of the offers is completed,
2 and contracts are negotiated with those suppliers who provided proposals
3 that result in expected savings in production costs over the applicable
4 month.

5 The fourth sub-team interfaces closely with the Weekly
6 Procurement Process team. As indicated, for the Weekly Procurement
7 Process, the Power Marketing Team assists with the process but is not
8 responsible for the selection of bids. The Entergy Energy Delivery
9 Organization, with oversight from the Independent Coordinator of
10 Transmission ("ICT"), evaluates resources and determines whether the
11 bids or offers should be accepted. The accepted offers are granted
12 transmission service.

13 The fifth sub-team deals with the market for purchases of one year
14 or longer in term, which are discussed by Company witness Cooper. The
15 SPO's Commercial Operations Group is responsible for the selection and
16 execution of these types of transactions. The Power Marketing Team is
17 responsible for managing these long-term and limited-term contracts on a
18 daily and hourly basis.

19 Each sub-team monitors its respective market for both the price
20 and availability of wholesale energy. This information is presented to the
21 appropriate planning teams for analyses that consider the cost of
22 alternative resources. If the analysis performed by a planning team

1 indicates that a transaction is necessary and/or economical, the Power
2 Marketing Team will arrange and implement the transaction.

3

4 Q16. WHAT TOOLS ARE USED BY THE POWER MARKETING TEAM TO
5 MONITOR THE POWER MARKETS?

6 A. The Power Marketing Team uses several methods to ascertain market
7 prices and availability of purchase power. These include electronic trading
8 platforms, personal contacts with third parties, and publications that report
9 historical market activity and other market news. A real-time online
10 program known as Intercontinental Exchange ("ICE") reports real-time
11 offers, bids, and actual transactions for power in various time frames such
12 as next day, next week, weekend, on-peak, off-peak, next month, next
13 year, and other specific time periods into the future, in both the Entergy
14 System and in surrounding markets. The Power Marketing Team uses
15 ICE to monitor the real-time market activity associated with power bought
16 and sold in the Entergy System as well as in the surrounding regions.
17 This real-time trading platform assists the Power Marketing Team in
18 negotiating with potential counterparties and deciding whether an offer
19 from a marketer is competitive with the market at that time. The Power
20 Marketing Team also surveys the market through person-to-person
21 communication with power traders from utilities, power marketers,
22 and Independent Power Producers ("IPPs"). In addition, the Power
23 Marketing Team also reviews published trading data, such as Platts'

1 *Megawatt Daily* ("MW Daily") to keep abreast of current market trends and
2 industry news to gain greater insight into market conditions, price, and
3 availability of power.

4

5 Q17. WHAT TOOLS ARE USED BY THE POWER MARKETING TEAM TO
6 TRACK AND MANAGE THE ENTERGY SYSTEM'S PURCHASE POWER
7 TRANSACTIONS?

8 A. The TRADES database was developed by SPO to facilitate the
9 documentation and accounting for all power purchases and sales
10 transactions for the System. This program is used to record all power
11 purchases or sales entered into by the Power Marketing Team with
12 another party. The accounting departments use the TRADES database to
13 verify each transaction for invoicing or paying a counterparty. In addition
14 to providing documentation for power transactions made by the Company,
15 the TRADES database also records a list of valid offers for purchased
16 power that were not accepted by the Power Marketing Team, and
17 indicates the reasons for the rejections. The records of the TRADES
18 database for the Reconciliation Period have been provided in the
19 workpapers to my testimony, under the provisions of an appropriate
20 Protective Order.

1 Q18. WHAT TYPES OF PRODUCTS DOES THE SYSTEM BUY AND SELL IN
2 THE WHOLESALE MARKET?

3 A. The majority of the System's short-term power purchases are made
4 pursuant to enabling or umbrella agreements that permit the parties to
5 specify the particular terms of a transaction in a confirmation sheet or by
6 oral agreement. For example, the Western Systems Power Pool
7 ("WSPP") enabling agreement is a FERC-approved agreement under
8 which parties transact for the purchase and sale of power. The SPO also
9 uses the Edison Electric Institute ("EEI") Purchase and Sale Agreement,
10 which is also widely accepted by the electric industry. Copies of enabling
11 agreements utilized by the Company during the Reconciliation Period
12 have been provided in the workpapers for Schedule I-4.

13 With these enabling agreements in place, the System is able to
14 utilize a wide range of options available in the marketplace to meet the
15 System's needs. The available products vary in duration, pricing, and
16 deliverability. With respect to duration, power is available on an hourly,
17 daily, weekly, monthly and longer-term basis. These various products can
18 be purchased during on-peak, super-peak, or off-peak hours. The System
19 can also benefit from these pricing options to lessen price volatility. Long-
20 term contracts, which provide the capability to schedule delivery of energy
21 at the specified price, can also offer price certainty and protect against the
22 effects of price spikes. Finally, the System can choose different degrees
23 of certainty of deliverability to suit its needs. Non-firm power can be cut by

1 either party without notice and is typically more economical than firm
2 energy which must be delivered as agreed, that is, backed by a specific
3 unit(s) or the promise to pay liquidated damages in the event of default.
4 The System utilizes a variety of products offered, selecting on duration,
5 price, and firmness to optimize flexibility while reducing overall fuel cost
6 and price volatility.

7

8 Q19. FROM WHAT ENTITIES DOES THE SYSTEM BUY POWER AND TO
9 WHAT ENTITIES DOES THE SYSTEM SELL POWER?

10 A. The System primarily enters into purchase and sale transactions with
11 utilities, power marketers, and IPPs. A complete list of the wholesale
12 power counterparties during the Reconciliation Period is included in
13 Schedules H-12.4a-g and I-15.

14

15 B. Non-Associated System Transactions

16 Q20. PLEASE DESCRIBE THE NON-ASSOCIATED SYSTEM PURCHASES.

17 A. As previously defined, Non-Associated System purchases are purchases
18 from third-parties made for the benefit of the System. The Power
19 Marketing Team enters into these purchases on an hourly, daily, weekly,
20 monthly, or longer-term basis. As shown in Exhibit AJO-2, the quantity of
21 power purchased each month varies. This variability is a reflection of the
22 role these purchases play as an economic alternative to self-generation.
23 During periods when purchased power costs are below the System's cost

1 of generation, purchased power will be used as an economic alternative.
2 During periods when purchased power costs are above the System's cost
3 of generation, the System will purchase power only as needed to maintain
4 system reliability. See Schedules H-12.4a-g and H-12.5b-e for a complete
5 listing of all Non-Associated System Purchases and Sales.
6

7 Q21. WERE THERE ANY PUBLISHED MARKET PRICES FOR WHOLESALE
8 POWER DURING THE RECONCILIATION PERIOD?

9 A. Yes. There are a number of published indices that provide an indication of
10 trading volume and prices in the wholesale markets for "standard
11 products," including publications such as *MW Daily*, that provide indices
12 for daily and monthly standard product prices. As I discuss further below,
13 the value of these indices for determining forward-looking prices has
14 decreased substantially due to the emergence of the availability of
15 non-standard products in the wholesale markets.
16

17 Q22. PLEASE EXPLAIN YOUR REFERENCE TO "STANDARD PRODUCTS"
18 WITH RESPECT TO MARKET INDICES?

19 A. As described more fully in Exhibit AJO-3, the next-day and monthly
20 indices are based on purchases and sales of on-peak firm power with
21 liquidated damages over a defined period. As such, these indices reflect a
22 "standard product" block of power that must be delivered and taken ratably
23 (that is, at equal amounts across all hours) over the 16-hour period

1 between 6:00 a.m. and 10:00 p.m. on a business day. If the purchase is a
2 standard daily product, then the power is delivered over this 16-hour block
3 for one day. If the purchase is a monthly product, the power is delivered
4 over this 16-hour block for every workday, with the exception of
5 some holidays.

6

7 Q23. DO THE MARKET INDEX PRICES INCLUDE NON-STANDARD
8 PRODUCTS?

9 A. No. The power markets are dynamic and buyers and sellers may agree to
10 terms that define a product that differs from the standard product. These
11 “customized” agreements are not represented by the market index price.
12 Significantly, the vast majority of the System’s non-associated
13 transactions are for non-standard products. In fact, less than 2% of the
14 System’s over 11,000 non-associated transactions are for a
15 standard product. Thus, while the published indices provide a source for
16 evaluating standard products, these indices have become less important
17 as a tool as a result of the power markets’ increased availability of non-
18 standard products in recent years.

19

20 Q24. WHY DOES THE COMPANY PURCHASE POWER USING A NON-
21 STANDARD PRODUCT?

22 A. The System enters into short-term non-associated power transactions for
23 a host of reasons, all of which can justify and even require the purchase of

1 a non-standard product. Stated another way, these various reasons
2 require or make it appropriate for the System to not commit to purchase a
3 level of power ratably during the hours of 6:00 am to 10:00 pm. For
4 example, the System purchases non-standard products for reasons,
5 including: (1) the need for flexibility associated with load volatility;
6 (2) economics; (3) reliability; (4) as part of a reserve sharing agreement;
7 and (5) pursuant to a FERC-filed Generator Imbalance Agreement ("GIA")
8 tariff, to name a few.

9
10 Q25. PLEASE EXPLAIN YOUR REFERENCE TO FLEXIBILITY AND
11 ECONOMICS AS REASONS FOR NON-STANDARD PURCHASES.

12 A. The need for flexibility and the opportunity for economic non-standard
13 purchases are interrelated. As discussed above, the standard power
14 product requires the System to take the same amount of power in each
15 hour for a 16-hour period, from 6:00 a.m. to 10:00 p.m. Because System
16 load fluctuates throughout the day, the purchase of power ratably over a
17 prescribed period of time can result in an over-supply in some hours,
18 forcing the System to back down more economic energy from other
19 sources, resulting in a net higher cost to the customer. Non-standard
20 products can be used by the System to target specific hours where the
21 energy is needed or where it is more economical than other available
22 resources.

1 As an example, assume that the System is offered a purchase for a
2 standard 16-hour block for a price of \$50/MWh. Alternatively, the System
3 has the option to make a purchase or strike on a call option at \$100/MWh
4 for a 4-hour period during that same day. Since the System's load varies
5 substantially during the day, it may only need the power for the 4-hour
6 period. The total cost of the purchase for 1 MW would be \$800 for the
7 16-hour block and only \$400 for the four-hour purchase. This is a simple
8 hypothetical that ignores the System's cost for the other 12 hours, but it
9 highlights that making a purchase based on the \$/MWh price and not
10 taking into account the total cost to the customer can add costs to our
11 customers.

12

13 Q26. PLEASE EXPLAIN YOUR REFERENCE TO RELIABILITY.

14 A. Reliability purchases are necessary to maintain System reliability. These
15 purchases can be made for a variety of reasons, including transmission
16 constraints, a lack of resources, and problems in local areas.

17

18 Q27. PLEASE DISCUSS PURCHASES PURSUANT TO THE SPP RESERVE
19 SHARING AGREEMENT.

20 A. The System is required to make purchases pursuant to an SPP reserve
21 sharing agreement. The reserve sharing agreement allows the System to
22 carry a lower reserve margin, thereby saving on capital expenditures and
23 lowering overall costs, in exchange for the System's obligation to provide

1 power when requested by the SPP. The agreement provides the System
2 the ability to obtain emergency power when needed. Such purchases are
3 typically for short periods and are priced at the supplier's incremental cost
4 pursuant to a FERC-filed formula rate.

5

6 Q28. PLEASE EXPLAIN GIA PURCHASES.

7 A. GIA purchases refer to System purchases of power generated by
8 non-System resources in excess of scheduled amounts. As such, the
9 System has no control over such purchases and reimburses the supplier
10 at a cost prescribed by the FERC tariff.

11

12 C. Non-System Transactions

13 Q29. PLEASE DESCRIBE NON-SYSTEM TRANSACTIONS.

14 A. Non-System purchases are those made either under long-term contracts
15 or under the requirements of the Public Utility Regulatory Policies Act
16 ("PURPA").³ Non-System sales are sales to third parties and provide
17 emergency (or backup) power in the event that a unit is not available.

18

19 Q30. PLEASE DESCRIBE THE PURCHASES MADE UNDER PURPA
20 DURING THE RECONCILIATION PERIOD.

21 A. A supplier of this type of power is generally referred to as a Qualifying
22 Facility or QF because it qualifies to supply power to the Company under

³ Public Utilities Regulatory Policies Act of 1978; 16 U.S.C. 824a-3.

1 PURPA. The Company is obligated to purchase the unscheduled, non-
2 firm energy a QF chooses to supply; however, the Company cannot
3 require the QF to supply power under PURPA. The price paid for this
4 energy is equal to the System's avoided energy cost. As shown in Figure
5 AJO-1 and Exhibit AJO-3, the QF non-firm, as-available energy put to the
6 Entergy System was a considerable amount during the Reconciliation
7 Period. Pursuant to P.U.C. Subst. R. 25.242(g)(2), any energy purchased
8 by the Company at a price equal to or below its avoided cost is reasonable
9 and necessary.

10
11 D. Affiliate Transactions

12 Q31. DID THE COMPANY MAKE ANY DISCRETIONARY PURCHASES OF
13 SHORT-TERM ENERGY FROM AFFILIATED COMPANIES DURING
14 THE RECONCILIATION PERIOD?

15 A. No. However, during the Reconciliation Period, ETI was allocated its
16 responsibility ratio of a limited amount of purchases from affiliates of ETI
17 through the GIA, which is part of the Entergy System's Open Access
18 Transmission Tariff.

19
20 Q32. WERE THE PURCHASES FROM ETI AFFILIATES DURING THE
21 RECONCILIATION PERIOD REASONABLE AND NECESSARY?

22 A. Yes. These purchases were made pursuant to PURPA or a
23 FERC-approved tariff that required the purchases to be made.

1 Q33. WERE THE PRICES THAT ETI PAID TO AFFILIATES NO HIGHER
2 THAN THE PRICES CHARGED BY THOSE AFFILIATES TO THEIR
3 OTHER AFFILIATES OR DIVISIONS OR TO A NON-AFFILIATED
4 PERSON FOR THE SAME SERVICES?

5 A. Yes. The prices paid as a result of these purchases were governed by
6 statute or FERC-approved tariff, and were no higher than prices charged
7 to other affiliates for the same product.

8

9 E. Surveys of Wholesale Power Markets

10 Q34. PLEASE DESCRIBE THE ACTIONS THAT EMO HAS TAKEN TO
11 COMPLY WITH THE COMMISSION'S REQUIREMENT FOR NEXT-DAY
12 AND INTRA-DAY SURVEYS OF THE ELECTRIC MARKET.

13 A. The TRADES database includes all valid purchased power offers received
14 by the System. To be considered, an offer must specify price, quantity,
15 and duration. For accepted offers, the database includes information
16 documenting the reasons particular purchases are made, such as whether
17 the purchase was made to ensure the reliability of the System or was an
18 economy purchase. For offers that are not accepted, in addition to
19 specifying price, quantity, and duration information, the database also
20 includes information documenting the reason that the offer was declined
21 (e.g., that the price was not economical, the counterparty was not
22 pre-approved, or that the purchase was not made because of operating
23 constraints, including minimum load issues or transmission constraints).

1 Thus, the EMO has not only a survey of the market, but in fact, an
2 inventory of valid offers.

3

4 Q35. PLEASE DESCRIBE THE INFORMATION THAT IS COLLECTED
5 REGARDING OFFERS FOR THE SALE OF ELECTRICITY THAT ARE
6 ACCEPTED.

7 A. In order to collect information on wholesale power transactions, the
8 traders identify the reason for the purchase (e.g., either economic
9 dispatch, economic commit, or reliability) at the time that the purchase
10 was made. If the purchase is made for economic dispatch reasons, the
11 purchase is more economical than existing online generation. If the
12 purchase is made for economic commit reasons, then the purchase is
13 generally avoiding a plant startup. The reasons that reliability may be
14 selected include a plant trip/failure/derate, an unexpected increase in the
15 load forecast, or a transmission constraint.

16

17 Q36. PLEASE DESCRIBE THE INFORMATION THAT IS COLLECTED
18 REGARDING OFFERS FOR THE SALE OF ELECTRICITY THAT ARE
19 NOT ACCEPTED.

20 A. The TRADES database also requires the traders to record information on
21 the valid offers that are received, but that are not accepted. An offer is
22 defined as valid, and therefore recorded, if it includes the following
23 information: price (\$/MWh), quantity (MWh), start time, duration (days or

1 hours), and if it is received from an Entergy-approved counterparty. Offers
2 may be rejected because they are not economically attractive (e.g., the
3 price is greater than the avoided cost for the relevant time period) or
4 because of operational reasons. If an offer is rejected, the information that
5 is collected includes the name of the seller, the amount and price of the
6 power, the schedule proposed for sale, and the relevant avoided cost
7 estimate that led to the rejection. The trader must also identify the reason
8 for the rejection. These explanations are recorded and stored in the
9 TRADES database. To the extent that the trader is informed of a specific
10 transmission constraint, that information is also retained.

11

12 Q37. PLEASE SUMMARIZE YOUR CONCLUSIONS REGARDING THE
13 PURCHASED POWER EXPENSES OF THE COMPANY DURING THE
14 RECONCILIATION PERIOD.

15 A. The strategies, practices, and procedures employed by the Power
16 Marketing Team during the Reconciliation Period resulted in a diverse
17 portfolio of products from the evolving purchased power markets that
18 provided electricity for customers at a reasonable total cost.

V. CONCLUSION

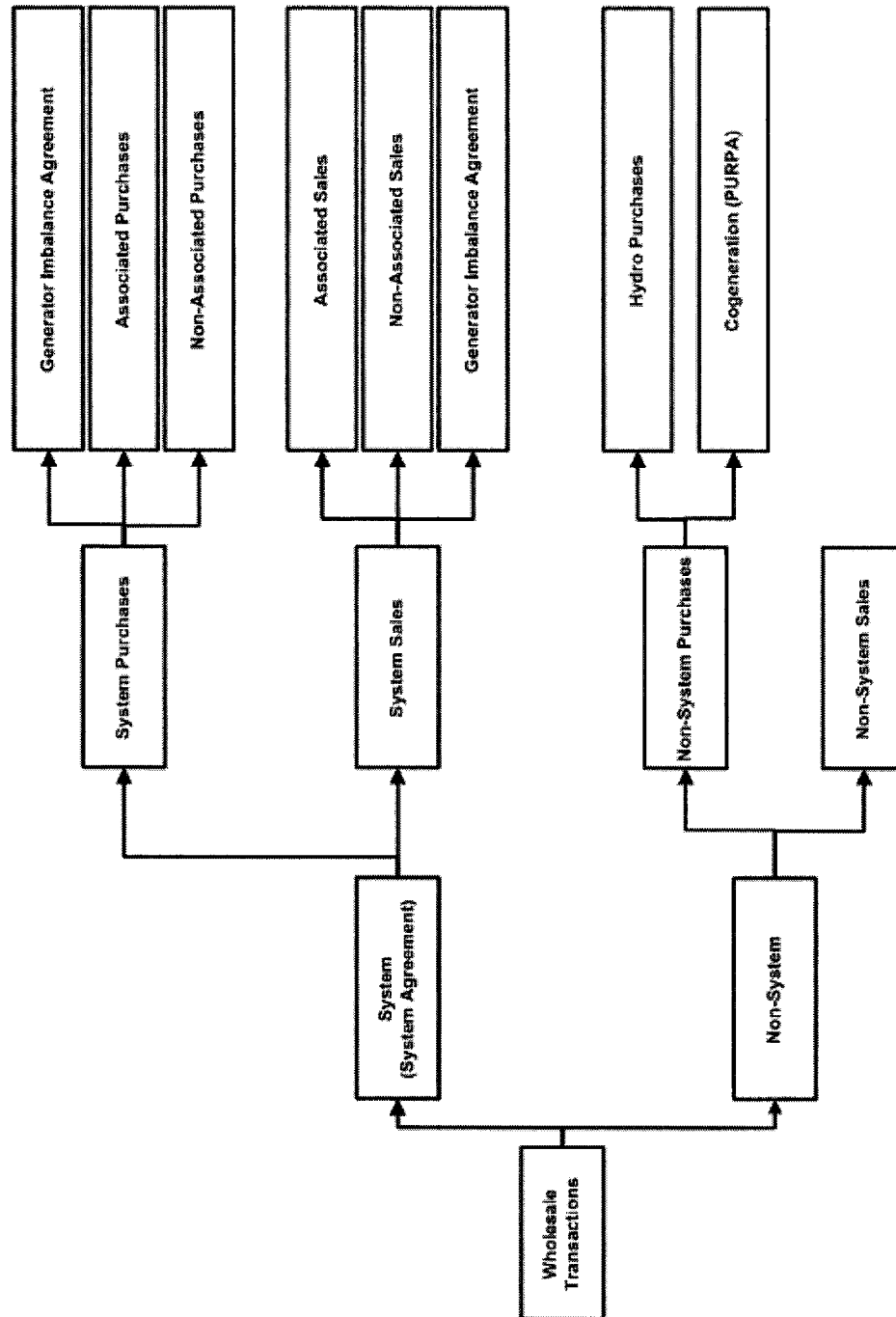
Q38. PLEASE SUMMARIZE THE COMPANY'S PARTICIPATION IN THE
WHOLESALE MARKETS DURING THE RECONCILIATION PERIOD.

A. The purchased power expense that the Company incurred was the result
of prudent planning and acquisition processes. These expenses were
necessary to reliably meet ETI's customers' needs. The Entergy System
utilizes a comprehensive process to manage its power acquisitions and
sales, consisting of a series of planning and procurement processes that
bring together sophisticated analytical tools and a wide range of personnel
so that the optimum portfolio of energy sources is developed. The System
was also operated pursuant to the terms of the System Agreement
regarding participation in the wholesale electric markets and in decisions
to utilize purchases of wholesale power to displace owned generation.

Q39. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

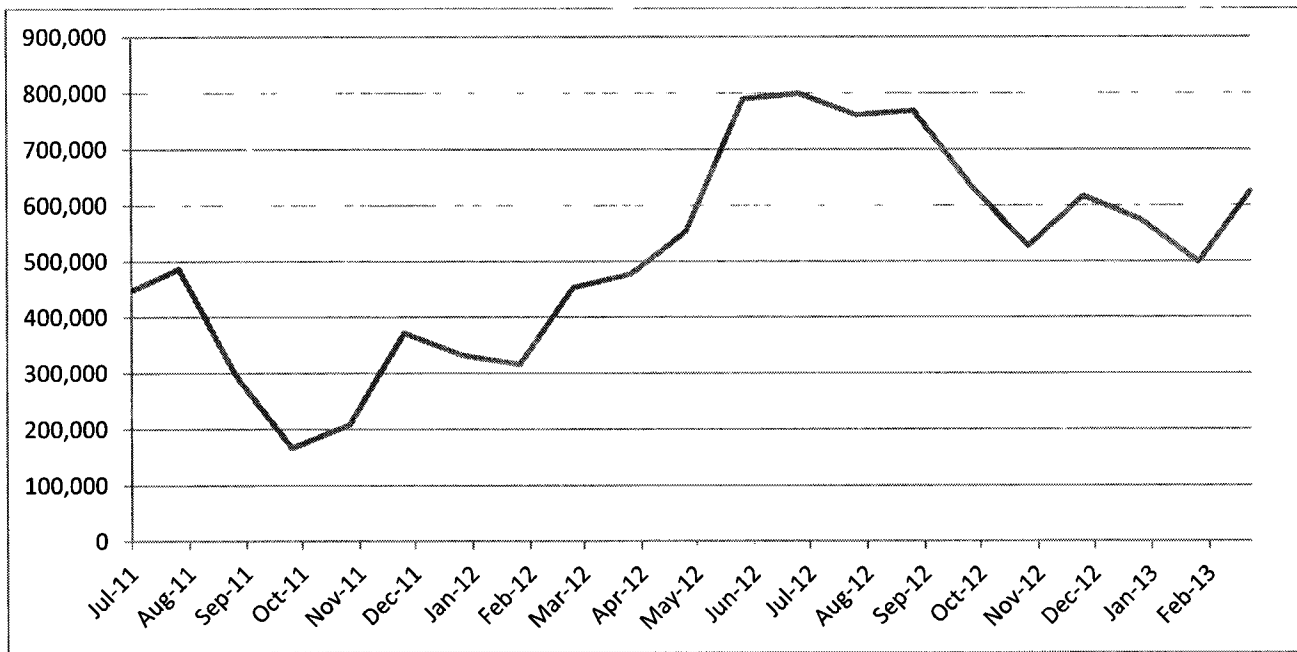
A. Yes.

Relationship of Various Wholesale Transactions



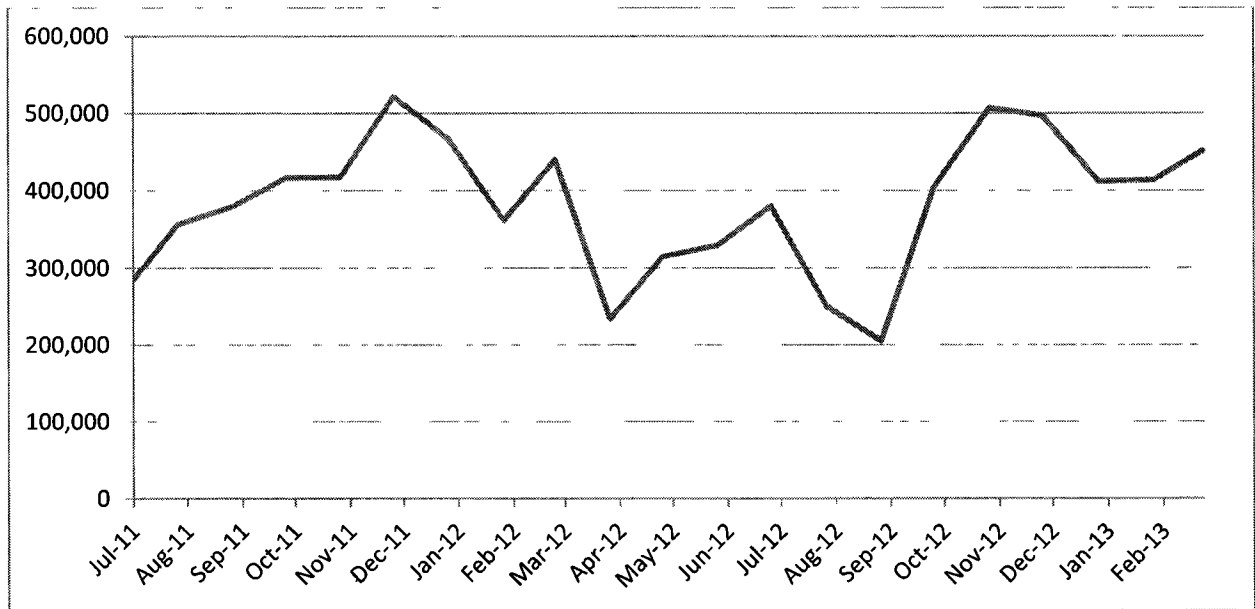
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ETI Non-Associated System Purchases



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Summary of ETI Cogeneration Purchases



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DOCKET NO. 41791

APPLICATION OF ENTERGY	§	PUBLIC UTILITY COMMISSION
TEXAS, INC. FOR AUTHORITY TO	§	
CHANGE RATES AND RECONCILE	§	OF TEXAS
FUEL COSTS	§	

DIRECT TESTIMONY

OF

MICHELLE H. THIRY

ON BEHALF OF

ENTERGY TEXAS, INC.

SEPTEMBER 2013

ENTERGY TEXAS, INC.
DIRECT TESTIMONY OF MICHELLE H. THIRY
2013 RATE CASE

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EXHIBITS

Exhibit MHT-1	Organizational Chart of the Gas & Oil Group
Exhibit MHT-2	Sabine & Lewis Creek Location vs. Houston Ship Channel Area
Exhibit MHT-3	Explanations of Published Indices (<i>Gas Daily</i> and <i>Inside FERC</i>)
Exhibit MHT-4	Lewis Creek Monthly Bid-week WACOG Compared to Houston Ship Channel Monthly Price Range
Exhibit MHT-5	Sabine Monthly Bid-week WACOG Compared to Houston Ship Channel Monthly Price Range
Exhibit MHT-6	Lewis Creek Daily GDA WACOG Compared to Houston Ship Channel GDA Price Range
Exhibit MHT-7	Sabine Daily GDA WACOG Compared to Houston Ship Channel GDA Price Range
Exhibit MHT-8	San Jacinto GDA WACOG Compared to Houston Ship Channel GDA Price Range
Exhibit MHT-9	Hardin GDA WACOG Compared to Houston Ship Channel GDA Price Range
Exhibit MHT-10	Volumes of Gas Purchased and Transported by the Company
Exhibit MHT-11	Calculated Storage Cavern Capacity
Exhibit MHT-12	Analysis of Daily Natural Gas Storage Inventory
Exhibit MHT-13	Summary of Cost to Operate Spindletop Storage Facility