

1 reasonable expenditures imposed by SB 7 or Commission directive. The
2 time value of money is well established at the Commission. Without
3 recognition through carrying costs that the expenses were spread over six
4 years, the Company would not be made whole. As requested, the
5 carrying cost rates should be those recognized by the Commission to
6 estimate what capital costs the Company.

7

8 Q. WHAT DO YOU SEE FOR THE LONGER TERM?

9 A. Recovery of these transition costs closes out the first phase of the
10 transition to competition for EGSi. In the longer term, it is clear EGSi still
11 intends to move toward retail open access in Texas and it is clear both the
12 Legislature and regulators support that intention.

13

14 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

15 A. Yes.

DOCKET NO. _____

APPLICATION OF ENTERGY
GULF STATES, INC. FOR
RECOVERY OF TRANSITION
TO COMPETITION COSTS

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§
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§

PUBLIC UTILITY COMMISSION

OF TEXAS

DIRECT TESTIMONY

OF

VIKKI G. CUDDY

ON BEHALF OF

ENTERGY GULF STATES, INC.

AUGUST 2005

SUMMARY OF DIRECT TESTIMONY OF VIKKI G. CUDDY

Vikki Cuddy is a Principal with Structure Consulting Group, LLC. She oversees and monitors the development of projects in Structure Consulting Group's North American energy consulting practice.

Ms. Cuddy's testimony compares Entergy Gulf States, Inc.'s transition costs with the transition costs incurred by electric utilities and other market participants around the country involved in the creation of systems, processes and markets to support retail competition. Ms. Cuddy also develops an estimation model, based on a series of inputs from industry standards, statistical benchmarks, personal experience, and other sources, and uses that model to compare Entergy Gulf States' transition cost to the costs that could reasonably be expected to be incurred in acquiring the infrastructure and services necessary to Entergy Gulf States' transition to competition. Ms. Cuddy demonstrates that Entergy Gulf States incurred a reasonable level of transition costs when one considers the length of Entergy Gulf States' transition period (June 1, 1999 through June 17, 2005), the Commission's directives to Entergy Gulf States, and the evolving regulatory and infrastructure requirements applicable to retail open access in the Entergy Settlement Area in Texas.

DOCKET NO. _____

APPLICATION OF
ENTERGY GULF STATES, INC.
FOR RECOVERY OF TRANSITION TO COMPETITION COSTS

DIRECT TESTIMONY OF VIKKI G. CUDDY

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EXHIBITS

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Exhibit VGC-6	FERC RTO Cost Study
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Exhibit VGC-8	RTO Comparative Analysis
Workpapers	

1 I. INTRODUCTION AND PURPOSE OF TESTIMONY

2 Q. PLEASE STATE YOUR NAME, OCCUPATION, AND BUSINESS
3 ADDRESS.

4 A. My name is Vikki Gates Cuddy. I am employed by Structure Consulting
5 Group, LLC ("Structure") as a Principal. My business address is 2000
6 West Sam Houston Parkway South, Suite 1600, Houston, Texas 77042.

7

8 Q. ON WHOSE BEHALF ARE YOU TESTIFYING?

9 A. I am testifying on behalf of Entergy Gulf States, Inc. ("EGSI" or the
10 "Company").

11

12 Q. WHAT ARE YOUR JOB RESPONSIBILITIES?

13 A. As a Principal with Structure, I am responsible for monitoring the
14 development and implementation of competitive wholesale and retail
15 electric markets across the Midwest, Southeast and Texas, as well as for
16 the oversight of Structure personnel working on projects in these regions.
17 In my role as Principal, I have focused on facilitating the development of
18 market rules and subsequently translating those market rules into viable
19 system design specifications.

20

21 Q. PLEASE BRIEFLY DESCRIBE YOUR EDUCATIONAL AND BUSINESS
22 BACKGROUND.

1 A. I have a Bachelor of Science in Business Administration from the
2 University of the Pacific. From 1996 to 1999, I was employed by Ernst &
3 Young (now CapGemini Ernst & Young) in the San Francisco office in its
4 management consulting practice. I was responsible for assisting clients in
5 the design and development of processes and systems to support
6 competitive energy markets in California and Ontario. Specifically, on
7 behalf of Pacific Gas & Electric Company, I designed, built and tested
8 interfaces to validate and load data from the California Power Exchange
9 into a custom-built settlement system. Additionally, I assisted Hydro One,
10 which is a holding company that emerged from the restructuring of Ontario
11 Hydro as the owner and operator of the wires operations formerly provided
12 by the provincially owned utility, in preparing for wholesale and retail
13 deregulation.

14 In 1999, I joined Structure. During my employment with Structure, I
15 have had an array of experiences and responsibilities. In 2000, I was
16 assigned to a project at the Electric Reliability Council of Texas ("ERCOT")
17 in which I assisted in the development of the market structure,
18 organizational infrastructure and business processes for ERCOT in
19 preparation for retail open access in Texas. In 2001, I was retained by
20 ERCOT as a Market Trials Coordinator, where I was responsible for the
21 daily communication to market participants of ERCOT's commercial and
22 operational system readiness to support the ERCOT wholesale market. In
23 2002, through a portion of 2003, I was retained by the Company to assist

1 with the development of protocols for wholesale and retail operations
2 reflecting procedures available to a Competitive Retailer for Day 1
3 Operations in what is known as the Entergy Settlement Area of Texas
4 ("ESAT"). These protocols were essentially market rules which were
5 intended to provide a foundation for retail competition in EGSI's Texas
6 service area. In 2003, Structure was retained by the Midwest Independent
7 System Operator ("MISO") to conduct an assessment of market readiness.
8 MISO is a Federal Energy Regulatory Commission ("FERC")-approved
9 Retail Transmission Organization acting in close cooperation with 15
10 states and the province of Manitoba. Structure's readiness assessment
11 for MISO involved evaluating implementation procedures, participant
12 qualification, participant registration, technical readiness and training for
13 MISO. In the latter part of 2003, I accepted the Independent Coordinator
14 role in connection with the Texas nodal market development for ERCOT,
15 which involved coordinating a collaborative stakeholder process to
16 develop protocols supporting a nodal market and overseeing the
17 completion of a detailed cost-benefit analysis. As the Independent
18 Coordinator, I facilitated meetings on nodal market design with the
19 ERCOT stakeholders, reported on the status of market design to the
20 Commission, and coordinated stakeholder education activities and
21 meetings. Most recently, Structure has completed a cost assessment for
22 the Northern Ireland Authority of Energy Regulators and the Commission
23 for Energy Regulation in the Republic of Ireland. This assessment

1 included estimating the implementation costs of creating an entity to
2 operate a single-energy market across the island of Ireland, which
3 included a detailed inventory of systems, personnel and market
4 functionality. Structure has also been retained to identify the key cost
5 drivers and components associated with the start-up and on-going
6 maintenance of a Regional Transmission Organization ("RTO") for
7 GridWest, and to provide a context for GridWest of the various RTO cost
8 components to enable GridWest to understand how they may be similar or
9 different.

10

11 Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE ANY REGULATORY
12 AGENCIES, INCLUDING THE PUBLIC UTILITY COMMISSION OF
13 TEXAS?

14 A. No.

15

16 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

17 A. My testimony assesses the reasonableness of certain portions of the costs
18 submitted in the Company's request for recovery of transition to
19 competition ("TTC") costs incurred from June 1, 1999 through June 17,
20 2005 to implement retail open access ("ROA") in EGSI's Texas service
21 territory. My focus is primarily on the overall implementation of the
22 transition requirements as they relate to two of the four categories of TTC
23 cost classes displayed in the "Foundation Chart" included in my testimony

1 as Exhibit VGC-1. This Foundation Chart is also included in the testimony
2 of other EGSI witnesses, including Company witness Phillip R. May. The
3 Foundation Chart provides a graphic depiction of the various classes of
4 costs that make up EGSI's TTC request. The Foundation Chart identifies
5 the individual classes of cost, by witness, and amount. There are four
6 major categories of cost classes shown on the Foundation Chart, including
7 the two categories of cost classes upon which I focus on in this testimony:
8 the "Plan, Develop Rules & Business Support" and "Design, Build, Test,
9 Pilot & Maintain Systems" cost categories.

10

11 Q. WHY ARE YOU QUALIFIED TO PROVIDE THIS TESTIMONY?

12 A. I am thoroughly familiar with the Company's transition efforts. I worked
13 with the Company and all active stakeholders over a two-year period in
14 developing the ESAT Protocols as part of the transition. The Public Utility
15 Commission of Texas (the "PUCT" or the "Commission") and the FERC
16 approved the ESAT Protocols in 2003 and 2004, respectively. My role
17 with the ESAT Protocols included a detailed analysis of the retail functions
18 performed by ERCOT, and guidance to the stakeholders (including EGSI)
19 regarding the functions to be performed by the Company in order to
20 support retail choice in the ESAT region. This experience, combined with
21 my knowledge of the retail and wholesale functions required under Senate
22 Bill 7 ("SB 7"), obtained through my engagements with both ERCOT and

1 the Company, provides me a thorough understanding of the processes
2 and systems necessary to implement retail choice in Texas.

3 Additionally, for the past eight years, I have participated in large
4 scale system implementation and process improvement initiatives with my
5 clients to support wholesale and retail competition in North America and
6 Europe. My projects have included active roles in cost estimation, project
7 management, delivery, execution, vendor negotiation, and selection.
8 These projects have provided the experience necessary to estimate and
9 evaluate large-scale systems design and implementation projects.

10

11 Q. DO YOU SPONSOR ANY EXHIBITS IN THIS FILING?

12 A. Yes, I sponsor the Exhibits listed in the Table of Contents to this
13 testimony.

14

15 Q. HOW IS THE REMAINDER OF YOUR TESTIMONY ORGANIZED?

16 A. In Section II, I provide an overview of EGSI's unique experience in its
17 efforts to move to ROA. In Section III, I provide an estimate of what a
18 utility in EGSI's situation should have expected to spend on the transition
19 to competition under SB 7 over a transition period that exceeded five
20 years. In Section IV, I examine comparisons of EGSI's transition and its
21 associated costs to the transition activities and transition costs incurred by
22 other utilities and participants in transition to competition activities, such as

1 ERCOT. In Section V, I address the reasonableness of EGSI's TTC
2 costs. I conclude my testimony in Section VI.

3

4 II. OVERVIEW OF EGSI'S TRANSITION TO COMPETITION

5 Q. HOW IS THIS SECTION OF YOUR TESTIMONY ORGANIZED?

6 A. In this Section II, I first briefly discuss the efforts that EGSI has undertaken
7 since the passage of SB 7 in 1999 to make the transition to retail choice.
8 Second, I describe the uniqueness of EGSI's experience. Third, I
9 describe efforts outside of ESAT to transition to retail choice. Fourth, I
10 provide evidence of the costs incurred by other entities for similar efforts in
11 comparison to EGSI's transition costs.

12

13 Q. PLEASE DESCRIBE EGSI'S EFFORTS TO TRANSITION TO RETAIL
14 CHOICE.

15 A. Because I have worked with EGSI closely over the past few years, I am
16 generally familiar with what the Company has undertaken with regard to
17 ROA transition. These activities include participation in many Commission
18 projects, dockets and hearings, as well as internal transition planning and
19 system development. To summarize, first, the EGSI transition occurred
20 primarily over a five-year period from June 1999 to June 2004, although
21 the actual transition period extended to June 17, 2005. During that period,
22 as other Company witnesses explain, EGSI expended substantial efforts

1 with both internal and external resources to plan and implement its
2 operations and systems in anticipation of ROA. In addition to this work in
3 Texas, the Company participated in related proceedings in Louisiana and
4 at the FERC. EGSi also participated in numerous contested case and
5 rulemaking dockets at the PUCT, including the Customer Choice Pilot
6 Project, and development of the ESAT Protocols. EGSi also participated
7 actively in the collaborative sessions convened to address and resolve
8 market structure and transparency issues in ERCOT.

9

10 Q. IS THERE ANYTHING UNIQUE ABOUT EGSi'S EXPERIENCE WITH ITS
11 TRANSITION?

12 A. Yes. EGSi has had the longest active transition period of any utility in
13 Texas. By the summer of 2001, all investor-owned electric utilities in
14 Texas were on track to implement retail choice in their service territories
15 on January 1, 2002 except for El Paso Electric Company and
16 Southwestern Public Service Company ("SPS"), both of which were
17 subject to legislation by that time that exempted them from moving to ROA
18 until sometime after January 1, 2002. In the fall of 2001, however, the
19 Commission issued two orders that delayed the start of ROA for EGSi and
20 Southwestern Electric Power Company ("SWEPCO") beyond January 1,
21 2002.

22

1 Q. DID THE COMMISSION TAKE THE SAME APPROACH TO PURSUING
2 ROA IN EGSI'S AND SWEPCO'S SERVICE AREAS AFTER THE
3 DELAYS?

4 A. No. EGSI proceeded under a Commission-approved settlement in Docket
5 No. 24469 to pursue ROA through a number of regulatory proceedings
6 that ultimately were referred to as "milestones." These milestones
7 included a market protocols project, which ultimately became a contested
8 case docket before both the Commission (Docket No. 25089) and the
9 FERC; an "Interim Solution" docket (Docket No. 27273); and an
10 "Independent Organization" docket (Docket No. 28818). From December
11 2001 until the spring of 2004, the Commission indicated that it intended for
12 EGSI's service territory to move to ROA as soon as possible, and set
13 target dates for achieving that goal.

14 Somewhat like EGSI, SWEPCO, after its delay, was first subject to
15 a docket (Docket No. 24468) that was initiated to determine whether that
16 company's service territory was ready for ROA. In that proceeding,
17 however, the SWEPCO parties entered into a settlement, ultimately
18 approved by the Commission in Docket No. 24869, that took a different
19 approach from EGSI's settlement in Docket No. 24469. The SWEPCO
20 settlement did not assume that ROA would commence in the near-term.
21 The Commission's May 2003 order approving the SWEPCO settlement
22 did maintain SWEPCO's customer choice pilot project and already-

1 existing low-income projects, but it explicitly, indefinitely delayed ROA in
2 SWEPCO's region until: (1) "at least January 1, 2007"; (2) certification of
3 a power region; and (3) competitive REPs are providing service to all
4 major customer classes in the pilot project. The Commission also
5 authorized SWEPCO itself to perform customer registration functions and
6 to convey switch information to market participants.

7 SWEPCO, unlike EGSI, did not: initiate and participate in protocols
8 dockets at the Commission or the FERC; use ERCOT as its registration
9 agent, operate under an "interim solution" requirement or expectation;
10 initiate and participate in an Independent Organization docket; or continue
11 to stand ready to enter ROA in the near-term under target dates
12 established in Commission orders.

13

14 Q. HOW MANY MONTHS DID EGSI SPEND IN ITS TRANSITION PERIOD
15 FROM THE TIME SB 7 WAS PASSED TO THE TIME THE COMMISSION
16 DECIDED TO INDEFINITELY DELAY ROA FOR EGSI?

17 A. The bulk of the effort occurred over an approximately 60 month time
18 period: from the middle of 1999 with the passage of SB 7 through June
19 2004, when the Commission ruled that it would no longer pursue an
20 interim solution for EGSI. The actual transition period, however, extended
21 over 72 months from June 1, 1999 through June 17, 2005, when new
22 legislation addressing EGSI's ROA efforts became effective. This is

1 compared to the roughly 30 months that the ERCOT utilities spent
2 preparing for retail choice (from the middle of 1999 to January 1, 2002).

3

4 Q. MORE SPECIFICALLY, WHAT TRANSITION-RELATED ACTIVITIES DID
5 EGSi UNDERTAKE DURING ITS EXTENDED DELAY PERIOD THAT
6 WERE BEYOND THE TRANSITION ACTIVITIES CONDUCTED BY
7 ERCOT UTILITIES?

8 A. The major dockets or projects, as indicated above, were the "Readiness"
9 docket itself (Docket No. 24469); the Protocols projects and dockets
10 (including three hearings before the Commission); the "Interim Solution"
11 docket and hearing; and the "Independent Organization" docket and
12 hearing. EGSi also maintained its pilot project during this period, and
13 maintained its certification with the ERCOT registration agent. These
14 activities, including significant work internally and with outside contractors
15 to plan and implement systems for ROA, are described in more detail by
16 the Company witnesses, including Company witnesses Joseph F. Domino
17 and May.

18

19 III. ESTIMATION APPROACH AND FINDINGS

20 Q. HOW IS THIS SECTION OF YOUR TESTIMONY ORGANIZED?

21 A. In this section, I compare the reasonableness of EGSi's requested TTC
22 costs to an estimate of what it would cost for an entity to implement ROA

1 in a geographic market under the rules and expectations that applied to
2 EGSi.

3

4 Q. HOW HAVE YOU COMPARED THE REASONABLENESS OF THE
5 TRANSITION TO COMPETITION COSTS REQUESTED BY THE
6 COMPANY?

7 A. I have created an estimation model to use as a comparative tool attached
8 as Exhibit VGC-2, Cost Estimation Model. The spreadsheet is based on a
9 series of inputs from industry standards, statistical benchmarks,
10 professional experience, and other sources that are contemporaneous to
11 the time frame in which EGSi incurred its TTC costs. This estimate
12 assumes a 60-month intense and active transition period that focused on
13 near-term ROA, as was the case for ESAT. Using the timeline and
14 changing requirements as the baseline, I derived a reasonably expected
15 cost of implementing retail choice in the Company's Texas service
16 territory. Essentially, the spreadsheet estimates the cost of accomplishing
17 the transition activities captured in the "Plan, Develop Rules & Business
18 Support" and the "Design, Build, Test, Pilot & Maintain Systems"
19 categories of the Foundation Chart attached to my testimony as Exhibit
20 VGC-1. For the Company, these costs are comprised of most of the
21 classes sponsored by Company witnesses May, Thomas R. Manasco,
22 Andrew E. Quick, and William T. Craddock. They do not include Mr.
23 May's System Benefit Fund/Renewable Energy Credits class, or his

1 Rates/Riders Preparation class, and does not include the Energy
2 Efficiency class of costs sponsored by Company witness Karen M.
3 Radosevich. The estimation model also does not include any Allowance
4 for Funds Used During Construction ("AFUDC") accruals on capital items
5 or any other amounts for carrying cost. I understand that the Company's
6 figures presented in the Foundation Chart do include AFUDC for their
7 capital items. Therefore, if I were to include an AFUDC component in my
8 figures, my figures would be even larger in comparison to EGS's TTC
9 costs reflected in the Foundation Chart. I then compare my estimate to
10 the actual costs incurred by EGS in carrying out those activities.

11

12 1. Overall Estimation Approach

13 Q. WHAT IS YOUR OVERALL APPROACH TO ESTIMATING THE
14 TRANSITION COSTS?

15 A. At the highest level, I approached this estimate as if I were preparing to
16 bid on a large-scale project implementation, such as bidding on a Request
17 for Proposal published by a utility that needs all of the functionality to
18 prepare for and participate in a retail pilot project and then for full ROA. I
19 used market rates from 1999-2000 for internal resources and outside
20 services and, where available, industry averages for system license and
21 maintenance costs. The model uses a "drill-down" approach. The costs
22 are summarized as total transition costs, which include cost estimate

1 summaries for external resources, internal resources, system costs, and
2 contingencies.

3 When available, benchmarks were referenced and noted in the
4 spreadsheet. The "bid" has several different components, each of which
5 corresponds to the section of the Foundation Chart that forms the point of
6 comparison. As my testimony continues, I explain the methodology and
7 rationale behind the systems, personnel, and infrastructure estimate.
8 Where relevant, I highlight where project costs were influenced by outside
9 forces. Finally, I have inserted columns to capture the variance between
10 costs reported by the Company and the estimate of that particular
11 category based on the cost information provided to me.

12

13 Q. HOW IS THIS MODEL DIFFERENT FROM A TRADITIONAL PROPOSAL
14 TO BID?

15 A. There are two fundamental elements of this spreadsheet that are not
16 normally included in a bid proposal that I would typically prepare as a
17 vendor. First, in addition to the system and implementation cost estimate,
18 the spreadsheet also includes allocations for internal resources and
19 infrastructure such as facilities, network connectivity, benefits loading, and
20 telecommunications costs to provide a total cost comparison. Bid
21 proposals typically do not include an estimate of internal costs that would
22 be incurred by a company to implement the work proposed by the vendor.

1 Second, the estimate benefits from the knowledge of historical facts
2 and outcomes that would not be reasonably known by the vendor at the
3 time of the original contract negotiations. It utilizes known information
4 regarding changes in the project duration, market scope, market
5 maintenance requirements, manual workarounds, and changing regulatory
6 requirements.

7

8 Q. WHAT TIMELINE DID YOU INCLUDE IN YOUR ESTIMATION MODEL?

9 A. My estimate begins to account for work effort and costs on and after June
10 1, 1999. I match the implementation timeline through January 1, 2002
11 consistent with the implementation timeline that ERCOT used for its retail
12 market implementation. This timeline is included as Exhibit VGC-3,
13 ERCOT System Overview. Beyond January 2002, I use the unique
14 timeline and requirements defined for the Company through the
15 “Readiness” docket itself (Docket No. 24469); the Protocols projects and
16 dockets (including three hearings before the Commission); the “Interim
17 Solution” docket; and the “Independent Organization” docket and hearing.
18 The estimate covers the Company’s activities from June 1, 1999 until
19 September 1, 2004. I include time through September 1, 2004 to capture
20 limited, but necessary, wind-down of resources and systems after
21 termination of the pilot project in June 2004.

22

1 Q. HOW DID YOU DETERMINE THE NUMBER OF RESOURCES TO
2 ALLOCATE TO THIS PROJECT?

3 A. My approach to resource allocation was different for internal versus
4 external resources. To determine the internal resources, I relied on two
5 major sources. First, I referred to the roles and functional scope described
6 by ERCOT for its Commercial Operations department, as captured in a
7 presentation to the Gulf Coast Power Association by Bill Bojorquez on the
8 "New Rules of the Texas Power Game" in June 2000, and included in my
9 testimony as Exhibit VGC-4, New Rules of the Texas Power Game. The
10 functions of the Commercial Operations department, which include
11 registration, meter data acquisition, data aggregation, settlement,
12 invoicing, market rules compliance and administration, as well as
13 information technology and application support, closely align with the
14 requirements the Company needed to perform to prepare for and to
15 support pilot operations. The functions of this department, previously
16 referred to as the "Settlement and Client Services" department by ERCOT,
17 are relevant to defining the roles of internal resources. Additionally, I
18 relied on personal experience of working with Regional Transmission
19 Organizations ("RTOs"), including the Midwest ISO and PJM, and various
20 market participants to derive the roles that internal resources would
21 perform over the project. As a quick comparison, I estimated up to 114
22 different roles working on the project internally, with a peak of 90 internal
23 resources allocated to the project.

19

21 Q. WHEN YOU REFER TO FUNCTIONAL MODULES, WHAT ARE YOU
22 INCLUDING IN THE FUNCTIONAL SCOPE?

1 A. The functions that are included in my estimate are driven from
2 requirements of the above-described regulatory dockets, the ERCOT
3 Protocols, the ESAT Protocols, and the requirements of SB 7. With the
4 exception of the General functional module, each functional module
5 includes estimates to define the requirements, design, build, and test the
6 necessary systems, and operate and maintain (including upgrade) these
7 modules once the pilot was operational. The functional modules include
8 the following:

9 Information Technology Acquisition and Integration: The Company
10 was required to implement significant system additions and upgrades to
11 be in compliance with Texas ROA requirements. The estimation model
12 includes acquisition of, or upgrade to, the Company's existing information
13 technology infrastructure. The estimation model also includes the
14 necessary monitoring and contingency equipment to sustain business
15 operations in the event of a primary application or interface failure of
16 critical applications. Furthermore, the model estimates the cost of
17 maintaining each of these applications after initiation of the pilot.

18 Customer Information System: The identification and
19 implementation of system modifications for the Distribution Company and
20 acquisition and configuration of a customer information system ("CIS") for
21 the affiliated retail company.

22 Registration and Texas Standard Electronic Transactions:
23 monitoring and complying with the system and process requirements

1 defined through the ERCOT Texas Standard Electronic Transactions
2 ("Texas SET") working group and the ERCOT Protocols. This module
3 also includes the development of electronic data interchange ("EDI")
4 capabilities and integration of those capabilities with the CIS for both the
5 distribution and retail operations.

6 Data Aggregation: This module includes identifying and
7 implementing systems and processes to process load consumption data,
8 and to interface with REPs using Texas SET.

9 Load Profiling: This module includes monitoring and complying with
10 load profiling standards developed through ERCOT stakeholder
11 processes, including assigning load profile types, installing mandatory
12 interval data recorder meters, and posting load profile models.

13 Load Forecasting and Counter-Party Trading: This module includes
14 identifying and implementing specific requirements of the affiliate REP to
15 conduct business under ROA, in addition to the Texas SET requirements
16 addressed above.

17 Market Information Postings: This module includes developing and
18 implementing an electronic information system – known as "CRIS" – to
19 distribute market-related information to REPs and the general public.

20 General: Finally, there are functional requirements that are not tied
21 to specific system functions. This General functional module includes the
22 effort necessary to plan transition efforts, manage compliance, participate
23 in regulatory proceedings, and manage overall project delivery success.

1 The estimation model includes required changes to several practices and
2 operations of the Company to separate competitive activities from
3 transmission and distribution utility activities, and to implement a code of
4 conduct. This includes the creation of an affiliate REP and the costs that
5 were required to implement business and corporate separation activities to
6 comply with the code of conduct. The model includes an estimate on the
7 various expenses including use of strategic advisory services, wholesale
8 market interaction services, and fees for legal services associated with
9 compliance.

10

11 Q. DOES YOUR ESTIMATE INCLUDE ANY CONTINGENCIES?

12 A. Yes. After completing the detailed estimate, I increased the total amount
13 by 10% to account for contingency. In my experience, this percentage is
14 lower than average for a bid. In fact, if a client were requesting a fixed-
15 price bid over a timeline of this length (five years), it is not uncommon to
16 use a contingency of over 50%. If a client requested a time and materials
17 bid, I would likely have placed a 20-25% contingency on outside services.
18 I am comfortable, however, with the 10% contingency because some
19 typical project risks and unknowns, like slipped timelines and changing
20 market requirements, are already factored into the estimate. For example,
21 I allocated a "Fix-It" team under outside services to process manual
22 workarounds and keep the Company compliant with Texas SET while the

1 market awaited critical design changes slated for version 1.5 of Texas
2 SET.

3

4 3. Total Cost Estimate and Model Assumptions

5 Q. WHAT TOTAL AMOUNT DOES YOUR SPREADSHEET INDICATE IS A
6 REASONABLE ESTIMATE FOR EGSI'S TRANSITION ACTIVITIES
7 RELATED TO THE "PLAN, DEVELOP, RULES & BUSINESS SUPPORT"
8 AND THE "DESIGN, BUILD, TEST, PILOT & MAINTAIN SYSTEMS"
9 CATEGORIES OF THE FOUNDATION CHART?

10 A. The following table, as extracted from Exhibit VGC-2, Cost Estimation
11 Model summarizes my estimate of total transition costs, compared to the
12 two categories of costs from the Foundation Chart upon which I focus, at
13 approximately \$169 million. This amount includes cost estimates for
14 outside services, system acquisition and maintenance agreements, and
15 internally dedicated project personnel that would be necessary to design,
16 build, test and maintain the retail pilot. In contrast, the Company is
17 seeking approximately \$144 million for these same transition components.
18 As I explained previously, my estimate does not account for all of the TTC
19 costs requested by EGSI, including: the System Benefit Fund/Renewable
20 Energy Credits class costs; the Energy Efficiency class costs; the
21 Rates/Riders Preparation class costs; AFUDC, and carrying costs.

Table 1 – Total Transition Cost Estimate

EGSI Comparative Cost Estimate

Schedule 1: Summary of Total Transition Costs

Line	Description	Subtotal	Transition Estimate
1			
2	Internal Resource Costs	\$ 35,065,854	
3	Labor & Benefits		24,859,375
4	Training, Travel & Other Employee Expenses		1,599,000
5	Utilities, Maintenance & Building Facilities		5,200,542
6	Other		3,406,938
7			
8	External Resource Costs	\$ 67,456,500	
9	Consulting for Implementation		67,456,500
10			
11			
12	Systems Costs		
13	Acquisition	\$ 21,777,331	
14	Customer Care System (CCS)		9,664,200
15	Competitive Retailer Information System		214,500
16	Load Profiling and Data Aggregation		2,210,700
17	Data Exchange		5,776,710
18	Load Forecasting		330,100
19	Counterparty Trading System		1,040,000
20	Other		2,541,121
21	Maintenance	\$ 29,573,737	
22	Customer Care System (CCS)		6,442,800
23	Competitive Retailer Information System		338,000
24	Load Profiling and Data Aggregation		6,442,800
25	Data Exchange		12,436,840
26	Load Forecasting		920,400
27	Counterparty Trading System		960,000
28	Other		2,032,897
29			
30	Contingency	\$ 15,387,342	15,387,342.18
31			
32	Total Transition Costs	\$	169,260,764

Q. IS IT APPROPRIATE TO COMPARE CERTAIN LINE ITEMS OF COST
IN YOUR ESTIMATION MODEL WITH SPECIFIC TYPES OF COSTS
INCLUDED WITHIN THE COMPANY'S TTC COST RECOVERY
REQUEST?

1 A. No. My model is an independent assessment of what it would cost to
2 transition to ROA in ESAT based on the cost development method I used
3 for the model. As such, it is appropriate to compare the total costs derived
4 from the model to the total costs in the two categories of TTC cost classes
5 from the Foundation Chart. My model is not intended to be a line-by-line
6 comparison to the costs that EGSI incurred.

7

8 Q. DESCRIBE THE ASSUMPTIONS THAT YOU USED IN THE MODEL.

9 A. The model uses a series of assumptions related to personnel,
10 infrastructure, systems, and general project implementation costs through
11 a set of worksheets comprising model "Inputs," "Workpapers," and
12 "Schedules." The assumptions, rates, and system development lifecycle
13 are derived from my professional experience and industry benchmarks for
14 project implementations of a similar nature. With respect to the time
15 frame, the model uses the known timescale for the project implementation.

16

17 Q. WHAT ARE THE ESTIMATION INPUTS THAT YOU USED IN THE
18 MODEL?

19 A. The inputs used in the model are broken down by estimating factors,
20 external resource rates, personnel salary grades, and resource loading.
21 In the "Input 1 – Estimating Factors" worksheet the assumptions are
22 displayed by "Category," "Type," "Factor Name," "Description," "Estimate,"
23 and "Data Source / Basis for Estimate."

1 The four categories are: "Personnel," "Facilities," "Infrastructure,"
2 and "General." An example of a "Personnel" category cost is
3 "\$_supplies_per_fte," which assigns an estimated annual cost for supplies
4 per each full-time employee based on an industry standard. An example
5 of an "Infrastructure" category is the "\$_per_hourly_meter," which is an
6 average cost to install retail compliant metering based on a published
7 guide of average hourly metering at commercial sites. An example of a
8 "Facilities" category cost is "\$_lease_ft," which assigns a cost per
9 employee for use of office facilities. An example of a "General" category
10 cost is the "\$_non ERCOT_LSE_Fee," which is uniquely pertinent to this
11 cost estimate and is the annual fee per Electronic Service Identifier ID
12 ("ESI ID") for non-ERCOT Load Serving Entities ("LSEs") based on the
13 actual ERCOT charge.

14 In addition, each of the items listed as an estimating factor is one of
15 two types: "Calculated" or "Direct." Calculated costs are those that have a
16 dependency on other input data such as the "#_employees" factor, which
17 is dependent upon the resource loading input chart, identified as "I2-
18 Resource Cost." Direct costs are those that are specifically defined on the
19 "Input 1 – Estimating Factors" worksheet. Modification of any of these
20 estimate values, either the calculated values or the directly assigned
21 values, impacts the cost estimate on the Schedule and Workpapers.

22 The second key input information is contained in the "Input 2:
23 Resource Cost" worksheet. This worksheet captures the assumptions

1 made for the salaries of permanent full-time employees as well as the cost
2 of non-permanent full-time resources. The cost of the permanent FTEs is
3 displayed in two columns: "Fully Loaded" and "Salary Cost 1999." The
4 salary ranges in Salary Cost 1999 are based on 1999 salary estimates
5 from public market data comparisons, such as Monster.com. The Fully
6 Loaded Cost is driven by multiplying the Salary Cost 1999 against the
7 "%_loading_rate" factor which is a direct cost depicting the benefit loading
8 rate to be applied to each employee. With respect to the non-permanent
9 FTEs, the value displayed in the Salary Cost column is derived by
10 multiplying the "Hourly Rate" column by the "Hours/Month" column and by
11 number of months in the year. A benefit loading rate is not applied to
12 these resources. The "Hourly Rate" and the "Hours/Month" columns are
13 populated with general consulting rates and typical resource loading for
14 specified levels in a consulting firm consistent with proposals that I have
15 submitted in the past, with professional experience reviewing and hiring
16 contractors, and with rate information obtained through research of other
17 utilities.

18 The third key input information is contained in the "Input 3: Internal
19 Resource Loading Detail by Role." This input sheet is the key tool for
20 determining the cost of internal resources throughout the project lifecycle.
21 Each of the resource positions is broken down by "Category," "Division,"
22 "Department," "Role," "FTE Salary ID," "# of FTE," "# Months," "Base Year
23 Salary," "Start Date," and "Stop Date." The categories tie the resource

1 costs to specific activities denoted in the Foundation Chart and are
2 defined as: Business Continuity; Pilot Operations; General; Market
3 Mechanics; Market Rules; Regulatory Affairs; Transition Planning; and
4 Project Management. The "Base Yearly Salary" value is derived from the
5 input in the "FTE Salary ID" and then determined from the input in the
6 "Input 2: Resource Salary/Cost worksheet." The remainder of the columns
7 denote the resource loading from the period beginning Q1 1999 through
8 Q2 2004. Based on the value input in the "# of FTE," a full-time
9 equivalency number populates a quarterly employee headcount based on
10 the resource's defined start and stop dates.

11

12 Q. HOW ARE THE INPUTS USED TO DERIVE THE COSTS
13 REPRESENTED ON THE SUMMARY WORKSHEETS?

14 A. The inputs used in the model are factored into a series of five workpapers.
15 Each workpaper uses the input factors and summarizes the information
16 over the project lifecycle for each specific area. The workpapers include:

17 Workpaper 1: Internal Resource Loading - summarizes the costs of
18 the resources into two main categories: "Labor and Benefits" and
19 "Employee Expenses."

20 Workpaper 2: External Resource Loading - derives a total cost per
21 resource and project for non-permanent FTEs.

1 Workpaper 3: Facilities Summary - derives the facilities cost over
2 the period 1999-2004 based on the resource headcount in a
3 specified quarter.

4 Workpaper 4: Systems Summary - derives the application license
5 and maintenance costs of various systems necessary to support
6 the retail requirements for ESAT.

7 Workpaper 5: Other Transition Expenses Summary - highlights the
8 transition costs associated with various fees and activities
9 associated with the transition effort.

10

11 Q. WHERE ARE THE TOTAL TRANSITION COSTS SUMMARIZED IN THE
12 MODEL?

13 A. In "Schedule 1: Summary of Total Transition Costs," the costs are
14 summarized as total transition costs, which includes cost estimate
15 summaries for external resources, internal resources, system costs, and
16 contingencies. In Schedule 1, the line item references the applicable
17 "Workpapers" where the detailed calculation was derived. The key
18 column is the "Transition" cost, or the cost estimated in the workbook as
19 derived through the "Inputs" and "Workpapers." The "EGSI Cost" column
20 and the "% Variance" column compare the reported EGSI costs and the
21 variance of those costs from the estimate being provided in this workbook.

22 To reiterate, this estimate applies to the costs of planning and
23 implementing a retail choice pilot project and being ready for full ROA over

1 a 60-month period. It covers both the distribution and retail aspects of
2 such a project and accounts for the fact that systems requirements (such
3 as Texas SET) were being revised throughout that period.
4

5 Q. WHY IS THIS MODEL CREDIBLE?

6 A. The entire model is built around the objective of providing a flexible, yet
7 thorough, cost estimate. The basis of this model is built using the similar
8 cost components and presentation framework as presented in the ERCOT
9 budget filed with the Commission under Docket No. 28832, and attached
10 to my testimony as Exhibit VGC-5, ERCOT Fiscal Year 2004 Budget.
11

12 Q. WHAT DO YOU CONCLUDE BASED ON THE RESULTS OF THE
13 MODEL?

14 A. I conclude that, with regard to the two categories of EGSi's TTC cost
15 classes upon which I focus, that the Company's TTC costs requested for
16 recovery by EGSi are significantly lower than the costs produced by the
17 estimate. That is, the Company's costs are lower than the costs that could
18 be expected to be incurred for a utility, such as EGSi, to implement ROA
19 in ESAT under the rules and requirements established through SB 7 for
20 the types of costs included in those two cost categories.

1 IV. COMPARISON OF EGSI TTC COSTS TO THOSE OF OTHER ENTITIES
2 INVOLVED IN THE TRANSITION TO RETAIL COMPETITION
3

4 Q. WHAT IS THE FOCUS OF THIS SECTION OF YOUR TESTIMONY?

5 A. This section of my testimony discusses the availability and significance of
6 data regarding transition costs incurred by other utilities and other entities
7 involved in the transition to competition as comparative benchmarks
8 against which to measure the Company's TTC costs.

9

10 1. Limited Benchmarking

11 Q. HAVE OTHER ELECTRIC UTILITY COMPANIES SOUGHT
12 COMPARABLE RECOVERY OF TRANSITION TO COMPETITION
13 COSTS?

14 A. No. There are many utilities that have undergone a transition to retail or
15 wholesale competition in North America, but I have not found much
16 information to be directly comparable to the recovery that the Company is
17 seeking for three primary reasons. First, in reviewing regulatory
18 proceedings outside of Texas, I found that, in many cases, the primary
19 component of the recovery requested was stranded asset costs. By
20 stranded asset costs, I mean the costs to an electrical corporation for
21 assets and obligations that may become uneconomic as a result of the
22 establishment of a competitive generation market. Stranded asset costs
23 may arise when market prices in a competitive market are too low to
24 recover the utility's sunk costs in generation-related investments made

1 under the expectation that the investment would be recovered fully
2 through cost-of-service, regulated rates. Under traditional cost-of-service
3 regulation, electric utilities: had agency-approved service territories;
4 requested regulatory approval to build power plants and transmission
5 lines; and were assured a reasonable opportunity to recover their costs
6 from customers. In the new competitive environment, that assurance
7 would no longer exist. As a result, most policymakers agree on the need
8 for a period during which electric utilities would be allowed the opportunity
9 to recover costs incurred, and investments made, that could be
10 unrecoverable in a competitive market. These transition costs are often
11 called "stranded costs" because they could be "stranded" as a result of the
12 transition and move from regulation to competition. By way of contrast,
13 EGSI's TTC costs are composed of costs actually expended in response
14 to legislative and Commission directives in order to bring about the
15 transition to retail competition.

16 Second, in the past under traditional cost-of-service electricity
17 regulation, states permitted electric utilities to recoup their costs, plus a
18 return on investment, in the rates they charged customers. Under
19 deregulation, there are no such guarantees because the market sets
20 prices. Specifically, under ROA in the ERCOT area of Texas, competitive
21 Retail Electric Providers ("competitive REPs") have used participation in
22 the restructured retail market and associated revenue as a mechanism to
23 recoup their costs. But Retail Electric Providers affiliated with electric

1 utilities (“affiliated REPs”) have used the revenues gained from sales to
2 retail customers at the “Price To Beat” set by the Commission to recoup
3 their transition costs. Because participation in the restructured market
4 (either through the sales at market-based rates or sales at the Price to
5 Beat) do not require REPs to reveal their actual transition costs, no REP in
6 Texas—competitive or affiliate—to my knowledge has made its transition
7 costs public.

8 Third, no other company has expended as much effort or
9 experienced the duration of transition as has the Company. Because the
10 Company’s situation is unique, there is only limited comparable data.

11

12 Q. ARE YOU AWARE OF ANY REGULATORY AGENCY THAT HAS
13 STUDIED THE IMPACTS OF TRANSITIONING TO A COMPETITIVE
14 ENVIRONMENT?

15 A. Yes. In October 2004, the Federal Energy Regulatory Commission Staff
16 published a “Report on Cost Ranges for the Development and Operation
17 of a Day One Regional Transmission Organization” in Docket No. PL04-
18 16-000. This report is attached as Exhibit VGC-6, FERC RTO Cost Study,
19 to my testimony.

20

21 Q. HOW IS THE FERC STUDY RELEVANT TO THIS PROCEEDING?

22 A. The study estimates the cost of developing a “Day One” RTO that
23 provides independent and non-discriminatory transmission service and

1 satisfies the minimum requirements of FERC Order No. 2000. While the
2 scope of the study focuses on wholesale electric restructuring, the study
3 demonstrates that costs of RTO formation vary widely. For example, at
4 the time the study was completed, Day One RTOs required an investment
5 outlay of between \$38 million and \$117 million, and an annual revenue
6 requirement of between \$35 million and \$78 million. The study also
7 demonstrates that delay, or an extended transition period, also is a
8 significant driver of increasing costs.

9

10 Q. WHAT FUNCTIONS ARE INCLUDED IN A DAY ONE RTO?

11 A. The Day One RTO functions, which vary significantly from the Company's
12 retail choice requirements, include open access transmission service,
13 scheduling authority and available transmission capacity determination,
14 redispatch for congestion management, ancillary services, planning,
15 parallel path flow mitigation, interregional coordination, and market
16 monitoring. The Study assumes that a Day One RTO does not have bid-
17 based, security-constrained economic dispatch, unit commitment,
18 locational prices, financial transmission rights, or capacity markets as the
19 Northeast and California ISOs have. These latter functions are considered
20 "Day Two" functions and involve further costs, which were beyond the
21 scope of the FERC study.

1 Q. HOW IS THE FERC STUDY APPLICABLE TO EGSi'S TTC COSTS?

2 A. The FERC Staff specifically captured insights on the impact of delay in the
3 pursuit of transition efforts from four study participants who are RTOs—
4 specifically the Midwest ISO, Southwestern Power Pool ("SPP"), ERCOT,
5 and the PJM Interconnection. The study noted in its Executive Summary
6 on page ii that:

7 Primarily, respondents noted that delay is expensive. Cost
8 overruns, particularly in software design, result from changing plans
9 mid-course. Prolonged delay also increases the amount of interest
10 paid on debt before operations commence and the RTO has a
11 revenue stream. Conversely, full Day Two operations
12 implementation at the organization's inception on an aggressive
13 timeline is costly both in the amount spent hiring outside
14 consultants and in the number of software re-works required after
15 operations commence. The entities that developed in stages,
16 moving from Day One to Day Two while adding functionality to
17 meet their members' needs, reported less cost overrun and fewer
18 required reconfigurations....
19

20 This insight is particularly relevant to EGSi's situation in at least two
21 respects. First, like all market participants in Texas, the Company was
22 subject to changing plans not only mid-course, but several different times,
23 during the period in which it attempted to implement retail choice.
24 Second, EGSi was also given an aggressive timeline at the onset to
25 prepare for a retail pilot and, unlike any other investor-owned utility ("IOU")
26 in Texas, was required to keep that pilot operating in full compliance with
27 evolving market rules, even after retail choice was delayed initially beyond
28 January 1, 2002.

1 Q. WHAT UTILITIES DID YOU RESEARCH IN YOUR EFFORT TO FIND
2 COMPARABLE UTILITY BENCHMARK DATA?

3 A. Primarily, I researched the ratesetting of San Diego Gas & Electric
4 ("SDGE") under Resolution ALJ 176-3049 dated November 17, 2000 at
5 the California Public Utilities Commission ("CPUC"), and the application of
6 The Detroit Edison Company ("Detroit Edison") to, among other things,
7 increase rates, and amend its rate schedules governing the distribution
8 and supply of electric energy filed in Case U-13808 at the Michigan Public
9 Service Commission ("MPSC").

10

11 Q. WHY DID YOU FOCUS ON THESE UTILITIES?

12 A. I focused on these utilities because they are both IOUs in states that
13 transitioned to wholesale electric choice and, in whole or in part, to retail
14 choice.

15

16 Q. DID YOU FIND THAT THESE UTILITIES HAD COMPARABLE
17 RECOVERY REQUESTS?

18 A. No.

19

20 Q. WHAT DID YOU CONCLUDE?

21 A. SDGE provided testimony supporting its proposed annual Competition
22 Transition Charge ("CTC") revenue requirement of \$115,000,000 for 2002.
23 SDGE provided data, in its testimony, supporting the CTC revenue

1 requirement that demonstrated that the amount for the CTC revenue
2 requirement reflects the 12-month forecast of SDGE's market costs for the
3 calendar year including the above-market costs for the administration of
4 power purchase contracts with Qualifying Facilities and Portland General
5 Electric, and the below-market costs for San Onofre Nuclear Generation
6 Station Incremental Cost Incentive Pricing. The revenue requirement also
7 set forth the 12-month amortization of the projected balance in the
8 Transition Cost Balancing Account. Pursuant to SDGE's calculations and
9 the order of the CPUC, SDGE's CTC revenue requirement of \$115 million
10 was granted.

11 Detroit Edison proposed to collect its stranded costs, which it
12 directly attributed to lost sales volumes. According to Detroit Edison,
13 stranded costs simply represent that part of the utility's approved revenue
14 requirement that would no longer be recovered when its customers
15 switched to other suppliers. Detroit Edison requested the MPSC to
16 authorize the use of an electric choice mitigation adjustment to adjust
17 costs associated with customers leaving under electric choice. Detroit
18 Edison maintains that future stranded costs should be recovered through
19 a transition charge that does not burden bundled customers.

20 In each of these cases, the recovery sought was for stranded costs,
21 and are not comparable to the actual costs incurred by the Company to
22 prepare and implement retail choice activities. I have addressed these

1 cases, however, to demonstrate that what the Company is seeking—
2 recovery of transition costs—is fairly unique.

3

4 Q. DID YOU REVIEW ANY COST RECOVERY REQUESTS OF TEXAS
5 UTILITY COMPANIES?

6 A. Yes. I reviewed the proceeding granting recovery to SPS's retail transition
7 efforts in Commission Docket No. 25088.

8

9 2. Southwestern Public Service Company

10 Q. DOES SPS'S COST RECOVERY COMPARE TO THE COMPANY'S
11 REQUEST?

12 A. No. SPS, from the outset, was not subject to the ROA requirements that
13 applied to EGSI. When SB 7 passed in 1999, SPS became subject to a
14 unique set of provisions that addressed its situation as what the
15 Legislature described as a "competitive development area." Unlike EGSI
16 (or any other IOU in Texas), SPS was required to file its own transition to
17 competition plan by December 1, 2000 (e.g., original PURA §§ 39.401 and
18 39.402). In 2001, the Legislature amended those SPS-specific provisions
19 through House Bill 1692, Act of May 26, 2001, 77th Leg., R.S., H.B. 1692
20 ("HB 1692"), to establish that ROA would *not* commence in SPS's Texas
21 service territory until the later of January 1, 2007, or the date on which the
22 Commission authorizes SPS to implement customer choice. Simply
23 stated, SPS was on a different track to ROA than was EGSI, and the costs

1 that SPS sought to recover did not include the ongoing personnel and the
2 applications necessary to support a pilot, continuously maintain and certify
3 compliance with ERCOT's registration agent, and the labor and expenses
4 necessary to participate in multiple contested cases and other regulatory
5 proceedings.

6

7 Q. WHAT DID SPS DO PRIOR TO ITS 2001 DELAY LEGISLATION (HB
8 1692) THAT STOPPED ITS MOVE TO ROA NO EARLIER THAN
9 JANUARY 1, 2007?

10 A. As mentioned above, SB 7 as originally enacted stated that SPS was in a
11 "competitive development area" and that SPS would proceed to ROA
12 under a different track than applied to the other IOUs in Texas (other than
13 El Paso Electric Company). (Please refer to original PURA 39.401 - .402
14 (and others) - since amended). Under original Section 39.402, SPS was
15 to file a transition to competition plan by December 1, 2000, which SPS
16 did do in Docket No. 23345. In a nutshell, SPS's plan stated that it had
17 joined the SPP's Open Access Transmission Tariff and it had also joined
18 the Midwest ISO as a member, supporting the requirement for SPS to join
19 an Independent Organization. SPS further stated that it would divest
20 generation to satisfy the PURA market power concerns, and unbundle as
21 of January 1, 2002 as required by SB 7. SPS had agreed to divest its
22 generation assets as part of a separate merger settlement with Xcel
23 Energy—a major U.S. electricity and natural gas company with operations

1 in 10 western and midwestern states. SPS's transition plan also indicated
2 that SPS expected to be able to finalize the generation divestiture in late
3 2002 or early 2003 and, upon that divestiture, would satisfy the Qualified
4 Power Region requirements in PURA, and could then commence ROA.
5 SPS also committed to continue and expand its pilot program to 100%
6 customer participation as of January 1, 2002.

7 On February 23, 2001, SPS filed a motion to abate its December 1,
8 2000 transition plan (filed in Docket No. 23345) because of pending
9 legislation that would have a "profound impact" on the timing of SPS's
10 transition. That legislation was HB 1692. The ALJ granted SPS's motion
11 to abate on Feb. 27, 2001. HB 1692 became effective on June 15, 2001.
12 That bill revised the SPS provisions in SB 7 to say, in part, that ROA in
13 SPS's Texas service territory is delayed until at least January 1, 2007.
14 SPS filed a motion to dismiss Docket No. 23345 on June 21, 2001; SOAH
15 granted that motion on July 5, and the PUCT dismissed the docket on July
16 9, 2001.

17

18 Q. WHAT DO YOU CONCLUDE ABOUT SPS'S RESTRUCTURING
19 EFFORTS?

20 A. What I would gather from all the procedural filings and ultimate delay
21 granted to SPS was that, after February 27, 2001, there was limited
22 activity to prepare for the retail pilot occurring when its transition plan
23 docket was abated, although I understand that SPS remained active in the

1 ERCOT and PUCT collaborative and rulemaking processes until June
2 2001 with the passage of HB 1692. To reiterate, SPS was on a very
3 different track, particularly by the end of February 2001, than was EGSi in
4 its ROA requirements and implementation effort.

5

6 Q. WERE THERE ANY ASPECTS OF SPS'S TTC RECOVERY REQUEST
7 THAT ARE RELEVANT TO THE COMPANY'S REQUEST?

8 A. Yes. Aspects of the SPS situation that are relevant to the EGSi situation
9 include: the timing of the SPS readiness effort; and the rates that SPS
10 indicated it used for outside services. I have used this information as a
11 benchmark in an estimation model that I discussed and presented earlier
12 in my testimony in Section III, Estimation Approach and Findings.

13

14 3. ERCOT

15 Q. PLEASE EXPLAIN THE BACKGROUND TO THE DEVELOPMENT OF
16 THE ERCOT MARKET.

17 A. With the passage of SB 7 in 1999, ERCOT was required to consolidate
18 into a single control area and operate as the statewide registration agent
19 for retail customer enrollment and switching. During the fall of 1999,
20 ERCOT developed bid documents to acquire the systems necessary to
21 support the restructuring of the Texas retail electric market. Through a
22 process involving the ERCOT Staff, PUCT Staff, ERCOT Market
23 Participants, and a number of vendors, a system was designed to support

1 the implementation of the ERCOT protocols which define the ERCOT
2 market. System design began in March 2000, and systems were
3 developed and built by January 1, 2001, at which time system testing was
4 initiated. Market Trials began on April 1, 2001, and the ERCOT market
5 was initiated for retail pilot purposes on July 31, 2001. This timeline was
6 included in ERCOT's 2001 Readiness Update, attached to my testimony
7 as Exhibit VGC-3, ERCOT System Overview.

8

9 Q. WAS THE COMPANY AFFECTED BY THE ERCOT MARKET
10 TIMELINE?

11 A. Yes. EGSi was largely subject to the rules and interface requirements
12 developed through ERCOT stakeholder processes and ERCOT working
13 group meetings. As market rules evolved for the ERCOT retail market,
14 functionality and system specifications were modified. The Company was
15 required to comply with the testing plan, implementation timeline, and
16 release schedule driven by ERCOT. Furthermore, any manual
17 workaround, system change, or transaction upgrade that was required to
18 interface with ERCOT as the central registration agent had to be
19 secondarily developed by IOU and REP systems, including the Company,
20 and tested and certified accordingly.

21

22 Q. WHAT ARE THE MAJOR ATTRIBUTES OF THE RETAIL MARKET IN
23 TEXAS?

1 A. Numerous computer and communications systems comprise the
2 foundation of the retail market. The market design in Texas emphasized
3 creating a single, centralized clearinghouse for retail transactions with
4 electronic exchange of information among market participants. ERCOT
5 developed standard protocols for the electronic transmission of
6 information among REPs, utilities, and itself, Texas SET. ERCOT and
7 market participants relied primarily on EDI for electronic communications.
8 The formal definition of EDI is "the interchange of structured data
9 according to agreed upon message standards between differing
10 companies' computer systems, via electronic means."

11

12 Q. WHAT IS TEXAS SET?

13 A. To support the exchange of data needed to operate the new electric
14 market in Texas, new or modified standards had to be developed. These
15 standards are known as Texas Standard Electronic Transactions or Texas
16 SET. Texas SET standards were defined using existing EDI transactions
17 through a stakeholder process. Texas SET includes defined standard
18 electronic codes that enable and facilitate the processes of customer
19 choice, such as customer registration, invoicing, service order,
20 usage/consumption reporting, payment order, customer information, and
21 confirmation of receipt. Revised versions of Texas SET have been
22 developed since the inception of the pilot project to support additional
23 business processes and functions. Since the inception of retail choice in

1 Texas, the EDI transaction codes, particularly those related to customer
2 registration ("814s") and usage information ("867s"), and other technical
3 jargon have become a commonly understood lexicon used by the market
4 participants and ERCOT.

5

6 Q. ARE ALL IOUs IN TEXAS REQUIRED TO UTILIZE TEXAS SET?

7 A. All in ERCOT, plus it was also necessary for EGSi alone of the non-
8 ERCOT IOUs to continue to maintain its interconnection with the ERCOT
9 registration agent beyond December 31, 2001 through Texas SET
10 because its target date for ROA, while delayed, continued to be in the
11 near-term. During the pilot project from June 1 until December 31, 2001,
12 a small portion of West Texas Utilities (WTU) in the Texas Panhandle and
13 SWEPCO had the option of using Texas SET or processing transactions
14 through ERCOT's web-based portal.

15

16 Q. WHAT IS ERCOT'S WEB-BASED PORTAL?

17 A. The ERCOT registration system portal was intended to be a low-cost
18 alternative to Texas SET for switching transactions and metering
19 information transactions.

20

21 Q. COULD THE COMPANY HAVE AVOIDED USING TEXAS SET BY
22 USING THE PORTAL INSTEAD?

1 A. No. There are three primary reasons. First, given the number of
2 customers that were managed and maintained through the registration
3 system anticipated for EGSi (over 380,000), the portal functionality would
4 not have supported the volume of activity required to complete a customer
5 switch request. Second, metering information transactions were not
6 supported on the portal during the pilot. The Company was required to
7 provide historical and monthly consumption data (*i.e.*, meter reads) to
8 REPs using a Texas SET 867 transaction. Thus, the Company was
9 already required to maintain Texas SET certification for this purpose
10 alone. Third, once the pilot was operational, availability of the portal was
11 sporadic. When the portal was available, its use was cumbersome, often
12 requiring multiple submissions of transactions.

13

14 Q. WHAT ATTRIBUTES OF RETAIL CHOICE IN TEXAS ARE DIFFERENT
15 FROM OTHER REGIONS?

16 A. In Texas, ERCOT performs functions in the retail market that are
17 performed by the transmission and distribution utilities in some other
18 states that have introduced retail competition. A key element in the design
19 of the ERCOT retail market was to use a neutral third party to perform
20 tasks related to the switching and settlement functions. In this case,
21 ERCOT is the neutral third party. ERCOT also performs key tasks like
22 load profiling and centralized data aggregation for customers within the
23 ERCOT region, but not outside of ERCOT within Texas. ERCOT is the

1 only region in the nation with a model that centralizes retail enrollment and
2 switching, and is the only region where end use consumption data is
3 profiled and aggregated by an entity other than the distribution utility.

4 In addition to being the only state with centralized customer
5 switching and registration functions, Texas also has a more complex
6 market structure than other states and, therefore, market participants
7 undergo more complex testing and certification. For example, in 2001, to
8 complete a single switch request involving one ESI ID (that is, a single
9 retail customer) one REP and one Transmission and Distribution Service
10 Provider ("TDSP"), there were 16 Texas SET (EDI) transactions. In other
11 states, this single switch request with the same number of parties would
12 involve nine EDI transactions.

13

14 Q. IN ADDITION TO MORE COMPLEX RULES, ARE THERE OTHER
15 FACTORS THAT MAKE PARTICIPATION IN THE TEXAS RETAIL PILOT
16 COMPLICATED?

17 A. Yes. Since the inception of retail choice in ERCOT, which includes the
18 requirement under SB 7 for ERCOT to provide centralized registration and
19 customer switching functionality statewide, there have been 13 test flights
20 to implement and upgrade Texas SET functionality. Five of these test
21 flights have involved new versions of Texas SET functionality, requiring
22 participation of all Market Participants. ERCOT has maintained statistics
23 on Texas SET testing since its October 2001 ("1001") test flight. The chart

below summarizes statistics gathered from various ERCOT Retail Market Subcommittee reports since October 2001. As Company witness Manasco discusses in his testimony, EGSi participated in five test flights over the five year time span: 1.3 in July 2001 (not summarized in the table); 1.4 beyond October 2001, 1.5 through April 2003, 1.6 through January 2004 and 2.0 through the June 2004 timeframe. The table below illustrates the magnitude of testing, market participant interfaces, and, in later test flights, the volume of transactions that needed to be managed for each test flight.

Table 2 – Texas SET Test Flight Statistics

	1001	0702	0902	1102	0403	0703	1003	0104	0504	0904	0105	0405
TX SET Version	1.4	1.4	1.4	1.4	1.5	1.5	1.6	1.6	2.0	2.0	2.0	2.0
New REPs	26	3	3	6	5	0	10	13	6	13	7	15
Existing REPs in New Territories	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3	6	7	5	1
Existing REPs testing New Functionality	n/a	n/a	n/a	n/a	n/a	n/a	n/a	22	39	3	1	0
Bank Changes	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1	1	2	0	5
EDI Provider Change	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1	2	2	2	2
Total Tasks	n/a	n/a	n/a	n/a	n/a	n/a	n/a	16,000	28,669	9,643	4,060	8,023
TDSP Sytems involved	6	2	2	2	7	4	7	6	7	5	6	6
Restarted Scripts	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0	4	0	0	
Completed on time	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Q. WHAT CONCLUSIONS DO YOU DRAW FROM THIS TABLE?

A. The primary conclusion to be drawn is that changes and additions continued (and in fact continue today) in the ERCOT market, even after ROA started in that market. Not only were the Texas SET versions continuing to change, testing volume (total tasks) were significant in each test flight, and the test flights occur frequently in a given year. This table demonstrates that all market participants, including EGSi during its pilot