

California Independent System Operator Corporation

August 3, 2007

The Honorable Kimberly D. Bose Secretary Federal Energy Regulatory Commission 888 First Street, N.E. Washington, DC 20426

Re: Monthly Status Report re MRTU, California Independent System Operator Corporation, Docket No. ER06-615

Dear Ms. Bose:

Enclosed for filing in the above-captioned docket, please find an electronic copy of the August 2007 Status Report of the California Independent System Operator Corporation.

Respectfully submitted,

/s/ Sidney Mannheim Davies

Sidney Mannheim Davies The California Independent System Operator Corporation 151 Blue Ravine Road Folsom, CA 95630

Attorneys for the California Independent System Operator Corporation

UNITED STATES OF AMERICA BEFORE THE FEDERAL ENERGY REGULATORY COMMISSION

)

))

California Independent System Operator Corporation

Docket No. ER06-615

AUGUST 2007 STATUS REPORT OF THE CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION

The California Independent System Operator Corporation ("CAISO") respectfully submits this monthly progress report ("Report") in compliance with Paragraph 1415 of the Commission's September 21, 2006 "Order Conditionally Accepting The California Independent System Operator's Electric Tariff Filing To Reflect Market Redesign and Technology Upgrade," 116 FERC ¶ 61,274 (2006) ("September 21 Order"), issued in the above-referenced docket.

The September 21 Order requires the CAISO to file monthly reports concerning the progress in designing and implementing the CAISO's Market Redesign and Technology Upgrade ("MRTU") and, as required by P 1415 of the September 21 Order, on the CAISO's MRTU readiness program. The CAISO will continue to file this monthly report on the first Monday of the month through the implementation of MRTU, currently slated for January 31, 2008 following the California Board of Governors' December 19, 2006 decision to extend the implementation date.

The monthly report contains two attachments: Attachment A includes the following elements as previously provided: (1) detailed timeline with the sequential and concurrent nature of the design elements; (2) cost estimates for

1

each element; (3) progress report; (4) accomplishments/milestones; and (5) planned activities¹. Attachment B addresses the development of both the CAISO and market participant readiness criteria. The information contained in Attachment B reflects the current status of the CAISO's MRTU Readiness Program.²

Highlights related to MRTU implementation identified in Attachment A include: **(1) Integration Interfaces** – provided support for Integrated Market Simulation (IMS) Release 2 in staging environment and IMS Releases 3 and 4 in Functional Integration Testing (FIT) environment and Load & Performance testing; **(2) Settlements and Market Clearing (SaMC) Systems** – (a) released Phase 1 configuration version 1.0 for IMS Release 3 and 4, and (b) began Phase 2 configuration testing; **(3) Integrated Forward Markets/Real-Time Nodal** – (a) IFM Coordinated Release (CR)3B / CR4 Factory Acceptance Testing: continued ETC/TOR testing and began testing Market Power Mitigation changes, (b) reviewed operator display requests related to Real-Time, and (c) CR 3B executed continuous runs of Real-Time in the FIT at the Folsom facility; **(4) SIBR** – completed CR4 Site Acceptance Testing (SAT); **(5) Market Quality Systems** – (a) completed version 2.0 FAT; (b) began version 2.0 SAT; and (c) began full FIT testing with IFM/RTM using version 1.1; **(6) Congestion Revenue Rights** –

¹ The Market Redesign and Technology Upgrade Program is comprised of seven major system projects – (1) Integrated Forward Markets/Real-Time Market/Full Network Model ("IFM/RTM/FNM"), (2) Scheduling Infrastructure Business Rules ("SIBR"), (3) Congestion Revenue Rights ("CRR"), (4) Settlements and Market Clearing ("SaMC"), (5) Legacy Systems, (6) Master File Redesign ("MFRD") and (7) Post Transaction Repository ("PTR").

² Documents relating to the CAISO's MRTU implementation and readiness activities, including the MRTU Readiness Criteria Dashboard posted on January 31, 2007, can be found at the following link: <u>http://www.caiso.com/docs/2005/06/21/2005062113583824742.html</u>.

released Database 18 to participants and completed data collections with participants for the CRR Auction and Allocation; **(7) Master File Redesign** – completed Master File Database 18 updates and creation of Master File CSV; **(8) MDS** – obtained internal signoff on Portal design; **(9) Testing** – (a) IMS Release 3 and 4 continuously ran in Real-Time, (b) began Market Quality System (MQS) payload generation and broadcast to downstream systems, and (c) began analyzing Real-Time Market save cases; **(10) Full Network Model/State Estimator** – commenced system build of Database 19 and development of Master File Database 18.

Highlights on status of readiness activities included in Attachment B: (1) **MRTU Working Groups** – continue to support Participant Readiness Advisory Group, MRTU Implementation Workshops, SaMC User Group and Systems Interface User Group, and the MRTU Implementation Workshop for July was postponed until August 8th due to Market Simulation planning activities; (2) **Market Participant Assessments** – scheduled 73 of 83 first follow-up assessment with Market Participants, with 47 completed; (3) Market Participant **Training** – conducted Session 10 of MRTU Level 200 training for Market Participants and conducted Bid to Bill Training for Market Participants in Houston, hosted by Calpine and Dynegy; and (4) MRTU Training for CAISO **Staff** – 82% of CAISO Staff have completed Level 100, 200 and 300 training, completed five out of seven Phase 2 Process walkthrough sessions across the Business Units, continued to conduct weekly progress reporting and tracking for internal readiness with all key Business Units, and continued to support activities for completion of the fourth readiness milestone for all core and non-core

Business Units.

Dated: August 3, 2007

Respectfully submitted,

/s/ Sidney Mannheim Davies

Sidney Mannheim Davies

Counsel for the California Independent System Operator Corporation

ATTACHMENT A



California Independent System Operator Corporation

Attachment A - FERC Status Report - August 2007

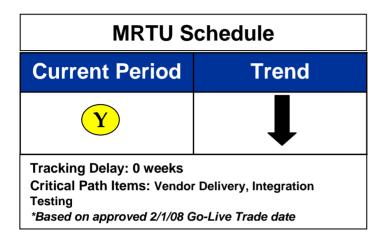
Market Redesign and Technology Upgrade FERC Update

August 2007

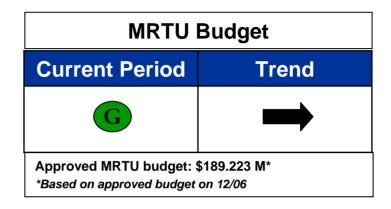


MRTU Executive Summary

California Independent System Operator Corporation

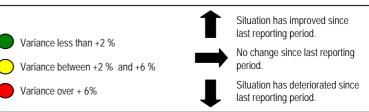


- Application development completed for majority of MRTU scope, with the exception of some FERC scope. Focus shifting to integration testing.
- Market Applications are running in the Integration test environment. Focus is on stabilizing applications, producing a consistent solution and integrating upstream and downstream systems.
- Integrated Market Simulation (IMS) R2 concluded July 28th.
- MRTU Implementation Workshop will be held on 8/8.
- Options for R3/4 (Fully Integrated Day Ahead and Real-Time functionality) and R5 are being evaluated by PMO.



- PMO continues to process change requests and evaluate against approved budgets.
- PMO is evaluating impacts of April 20th, May 8th, June 25th and July 6th FERC Orders.
- PMO implemented resource changes to Testing team to mitigate schedule delays. Budget impact currently being managed without using Program contingency.







Integrated Market Simulation (IMS) Release 2 completed final evaluation on 7/20. Other IMS activities included: conducted market participant workshops, held briefing and debriefing market participant calls, and published weekly report cards and issues and variance reports. The focus is now on planning for the next Market Simulation while incorporating lessons learned and concerns raised by Market Participants. IMS R3/4 scripts and documents have been developed and are being reviewed, technical interface documents have been posted, and option analysis for future Market Simulation phases is underway.

The Readiness team conducted and supported several Participant Assessments (69 of 83 complete). The Training team continued working on various CBTs (focus is currently on OASIS and ADS), Internal Bid-to-Bill and Grid Ops Level 400 training development. Several training sessions were held including two Bid-to-Bill sessions in Houston (at Calpine and Dynegy), session 10 of the Level 200 series and a Market LITE Level 300 class in Folsom. The team continues to prepare for the remaining Bid-to-Bill session at WAPA.

The Testing team has been working to stabilize Market Application with focus on Real-Time Market for R3/4. Integration of downstream systems including SaMC, MQS and Legacy applications and automation testing is underway.



Accomplishments & Milestones

Integration (Interfaces)

 Provided support for IMS R2 in staging environment, IMS R3/4 in FIT environment, and Load & Performance testing

SaMC

- Released P1 configuration version 1.0 for IMS R3/4
- Began P2 configuration testing

Integrated Forward Markets/Real-Time Nodal

- IFM CR3C/CR4 FAT: Continued ETC/TOR testing, began testing for MPM changes
- Reviewed operator display requests related to RT
- CR3B executed continuous runs of RT/NA in Folsom FIT

Scheduling Infrastructure and Business Rules (SIBR)

SIBR completed CR4 SAT and passed QRB

Market Quality Systems

- Completed v2.0 FAT and passed QRB
- Began v2.0 SAT
- Began full FIT testing with IFM/RTM using v1.1

Congestion Revenue Rights

- Release DB 18 Model to participants
- Completed data collection with participants for Auction/Allocation
 MFRD
- Completed DB18 MasterFile update and creation of MasterFile CSV MDS
- Obtained internal signoff on Portal Design
- Held two Notification design reviews with market participants

Testing

- IMS R3/4: Continuously ran RT; began MQS payload generation and broadcast to downstream systems; analyzing RTM save cases
- Full Network Model/State Estimator
- Commenced system build of DB19 and development of DB18 MasterFile

Planned Activities

Integration (Interfaces)

- Continue various FIT environment upgrades
- Continue upgrade of framework to 1.9.8
- Provide support for IMS R3/4 in FIT and updates for CR403 and CR682 services for R5

SaMC

- Deliver P2 Charge Type to Integration Test
- Continue updating test cases and data clean up based on updated requirements; continue design and unit testing

Integrated Forward Markets/Real-Time Nodal

- Continue CR3B FIT/ End to End testing
- CR3C/CR4 FAT: Continue ETC/TOR testing

Legacy

Complete QRB for formal exit from SAT of Legacy applications

Market Quality Systems

- Support v1.1 FIT testing for IMS R3/4
- Continue v2.0 SAT
- Resolve v1.1 performance issue regarding RT data retrieval

Congestion Revenue Rights

- Release DB18 FNM and TOR/ETC/CVR nominations
- Prepare Data Input Module

Testing

- Complete MQS payload and DA CMRI testing; test updated SLIC integration services and integrate ALFS with IFM
- Continue RT stabilization for R3/4
- Begin business validation of CMRI and OASIS reports

Full Network Model/State Estimator

 Place DB19 into EMS production (system build only); continue with DB18 model update testing



MRTU Program Progress as of July 28th, 2007

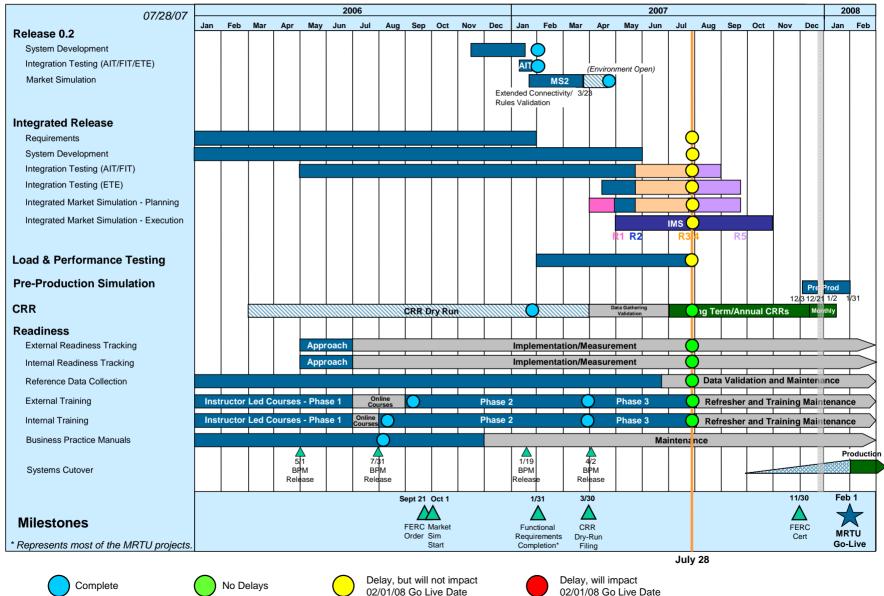
Program Area	Design	Build	Test	Integration	End-to-End	Market	Deployment	
Phase 1A								
Phase 1B								
Market Systems								
Real-Time Market								
Integrated Forward Market								
Hour-Ahead Processor								
Residual Unit Com.								
Scheduling								
Policy Must-Haves								
FERC Changes - Market Systems								
Settlements								
Base Product								
Charge Types								
Congestion Revenue Rights								
FERC Changes - Settlements/CRRs								
Legacy								
Automated Dispatch System (ADS)								
Reference Level Calculator (RLC)								
Scheduling and Logging System (SLIC)								
Compliance Automation Production System (CAPS)								
Existing Transmission Contract Coordination (ETCC)								
Operational Meter Analysis and Reporting (OMAR)								
Open Access Same-Time Information System (OASIS)								
Reliability-Must-Run Application Validation Engine (RAVE)								
Other Applications								
Market Quality System								
PTR								
Portal								
MFRD								
FERC Changes - Legacy/Other Applications								

Legend	Supporting
Phase not started	Activities
Phase in progress	
Phase complete	

Program Area	Planning	Development	Execution
Internal Readiness			
External Readiness			
Training			
Business Processes (Phase 1)			
BPMs			

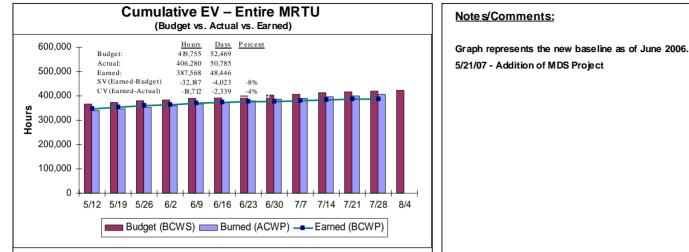


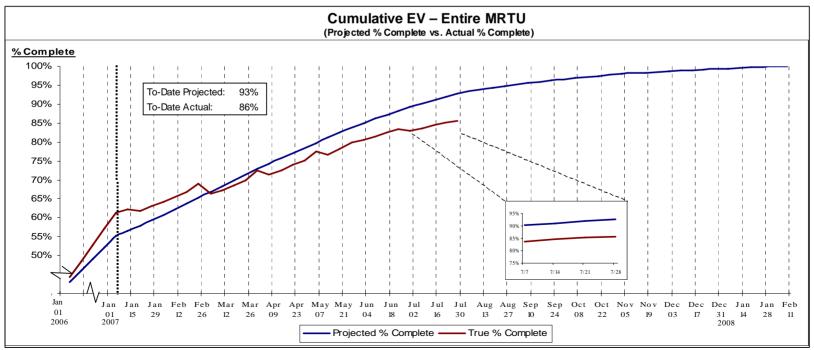
MRTU High-Level Timeline





Program Key Metrics





Included in Graphs: BPM, Business Process, SIBR, Training, FNM/SE, IFM, MQS, CRR, MDS, MFRD, SaMC, Portal, Testing, Integration, PTR, PMO, Legacy, STiNG, Readiness, and Technical Architecture. Not Included in Graphs: r/a



MRTU Financials

California Independent System Operator Summary of Expected Completion Costs vs. December, 2006 Budget June 30, 2007 (In Thousands) *

	Project	Proje	e-baselinedPaid InvoicesEstimatedect Costs Dec.Actual CostsTo DateCosts toCost of Project2006Through 20066/30/07Completeat Completion(a)**(b)(c)(d)(e)=(c+d)		from Baseline (f)=(e-a)								
	Market Redesign	\$	64,807	\$	49,990	\$	54,169	\$	10,637	\$	64,807	\$	-
1	Automatic Mitigation Procedures/Phase 1A		773		773		773		0		773		0
2	Real Time Markets/Phase 1B		16,297		16,297		16,297		0		16,297		0
3	Integrated Forward Markets/Real -Time Market (IFM/RTM)		33,372		23,673		26,598		6,774		33,372		0
4	Congestion Revenue Rights (CRR)		4,516		3,986		4,206		310		4,516		0
4A	Market Quality System (MQS)		6,261		2,315		3,349		2,912		6,261		0
11A	Hardware & Software Purchases		3,588		2,947		2,947		642		3,588		0
	Technology Upgrade	\$	74,179	\$	61,020	\$	67,330	\$	6,848	\$	74,179	\$	-
5	Scheduling Infrastructure Business Rules (SIBR)		13,323		9,727		10,361		2,963		13,323		0
6	Settlements and Market Clearing (SaMC)		18.030		16,170		17,207		823		18,030		0
6	Master File (MFRD)		2,300		2,291		2,347		(47)		2,300		0
9	Post Transactional Repository (PTR) - CMRI		2,461		2,236		2,692		(230)		2,461		0
10	Legacy Systems		7,785		6,379		6,984		800		7,785		0
10A	State Estimator/Full Network Model		1,345		1,040		1,176		169		1,345		0
11	Technology Infrastructure/ Portal		2,065		2,050		2,051		14		2,065		0
11B	Hardware & Software Purchases		6,923		5,197		6,227		697		6,923		0
12A	System Integration/Enterprise Architecture		17,989		15,540		17,354		635		17,989		0
12B	Technology Architecture		1,957		389		932		1,025		1,957		0
	Common Projects ***	\$	41,214	¢	25,738	\$	33,584	\$	7,631	\$	41,214	\$	
13	Training/Readiness Projects	Þ	9,709	φ	25,730 6,975	φ	<u>33,364</u> 8,971	Þ	738	φ	41,214 9,709	Þ	- 0
14A	Project Management		17,666		11,907		13,355		4,310		17,666		0
14B	Testing		13,840		6,856		11,257		2,582		13,840		0
140			13,040		0,050		11,207		2,502		13,040		0
	Ongoing Scope Adjustments	\$	1,523	\$	-	\$	-	\$	1,523	\$	1,523	\$	-
	Pending MRTU Scope Changes		1,523		0		0		1,523		1,523		0
	Contingency	\$	7,500	\$	-	\$	-	\$	7,500	\$	7,500	\$	-
15	Program Contingency		7,500		0		0		7,500		7,500		0
	Total MRTU Project	\$	189,223	\$	136,748	\$	155,083	\$	34,140	\$	189,223	\$	-

* Columns and rows may not total due to rounding.

** Budgets include: Consultant Labor, Vendor Costs, Travel & Meals Expenses, Training, Hardware, Software, Maintenance, Employee Backfill costs

*** Common Projects Allocation: 47.9% to Market Redesign; 52.1% to Technology Upgrade

ATTACHMENT B



California Independent System Operator Corporation

Attachment B - FERC Status Report - August 2007

MRTU Readiness Program Summary FERC Update

August 1, 2007



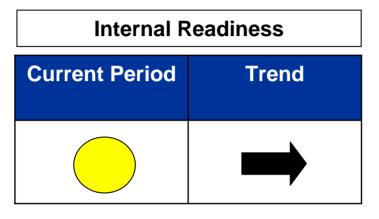
MRTU Readiness Program Executive Summary

This summary represents a status of the MRTU Readiness program that focuses on activities to ensure that the people, processes, and technologies for both CAISO and the Participants are ready for the implementation of the MRTU program. For the month of July, the MRTU Readiness Program continued to make progress in the following areas:

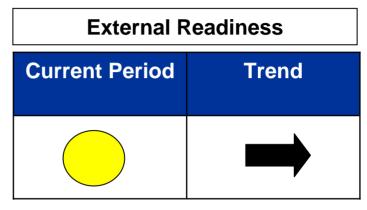
- Continued to conduct weekly progress reporting and tracking for Internal Readiness with all key Business Units.
- Continued to support activities to be completed during the fourth readiness milestone (Build) for all core and non-core Business Units.
- Completed 5 out of 17 Phase 2 Process Walkthrough sessions across Business Units.
- Completed communication of Readiness Survey results to employees and created action plans for bottom 3 to 4 results by department.
- Approximately 82% of CAISO staff have completed Level 100, 200, and 300 MRTU Training.
- Scheduled 73 of 83 1st Follow-up assessments with Market Participants. 47 out of the 83 1st Follow-up assessments have been completed.
- Continued conducting ongoing Market Participant Meetings such as PRAG and Technical Workshops. Implementation Workshop for July was postponed until August 8th due to Market Simulation planning activities.
- Conducted Session 10 of MRTU Level 200 training for Market Participants.
- Conducted Bid to Bill Training for Market Participants in Houston hosted by Calpine and Dynegy.



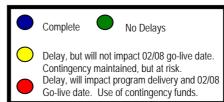
MRTU Readiness Overview



- Due to delays in Testing and Market Simulation activities, Internal Business Units are in jeopardy of not completing their process and procedure tasks within the Build phase of readiness.
- CAISO internal readiness activities for core Business Units continue to be reviewed on a weekly or monthly basis.
- Readiness Criteria was updated at end of June 2007.
- 60 Day Certification process for Milestone 2 is in progress.



- Market Participants continue to express concerns on readiness based on results of Market Simulation Release 2 and the delay of Market Simulation Release 3 and 4.
- Participation in Market Simulation Release 2 remained low. Market Simulation Release 2 ended on 07/20/07.





MRTU Participant Readiness

Based on feedback from Participants and information resulting from Market Simulation Release 2, the following represents some of the key risks and mitigations that represent the Participants current MRTU Readiness level (yellow):

Risk	Mitigation
 Settlement files in Release 2	Market Simulation Release 2 ended on July 20 th with 2 High+ issues
have not met Participant	in the area of Settlements that are still outstanding. It was decided
expectations and requirements	that it was a better use of time to develop these fixes in R3/4 than to
for testing	prolong the simulation and incorporate these fixes in R2.
 All specific activities described as	The Market Simulation R3/4 planning session scheduled for 7/19 was
being in-scope for Release 2	postponed. CAISO is currently evaluating several options for the
were not available	future Market Simulation schedule and activities.
 Market Simulation Release 2 concluded on July 20th without achieving simulation success relevant to the Market Simulation objectives 	 CAISO continues to work to get issues resolved and to be prepared so that Market Participants can use the software as soon as possible in the next Market Simulation. CAISO will clarify what is in the simulation and what is not in the simulation.



5

Internal Readiness Update

At the completion of the Design Phase, Business Units were assessed against criteria and deliverables outlining how the progress of their future processes, accountabilities and organization transition plans. The following represents risks identified and status update on mitigation steps being taken:

Risk	Mitigation Update
Testing delays are impacting readiness work plans for Business Units.	Business Units continue to participate in testing activities and exploring ways outside of testing to gain the knowledge needed to support their knowledge transfer process.
Business Units do not have a clear understanding of testing and market simulation	Readiness Team is supporting the End to End Team by identifying the Business Owners, IT Owners and resources assigned to support End to End Testing phases. The End to End Testing Team will meet with these Business and IT Owners to develop a resource schedule and communicate the approach for Business sign-off of processes. The first End to End phase is scheduled to begin in August.
 Business Units are managing multiple projects in addition to MRTU leading to some situations of resource constraints on MRTU. 	Business Unit's are continuing to review their projects and re-prioritize resources to focus on MRTU
 Business Units need more focus on confirming data and reporting requirements. 	Two initiatives are in progress: 1) Enterprise Data Repository Project to provide a means to store the data and ability to create internal adhoc queries; and 2) IT Reporting Project to understand reporting requirements and create internal reports for business users.



Next Steps

The following list summarizes the remaining activities to be completed:

- Continue to work with CAISO's Internal Business Owners to receive status on Readiness activities and deliverables to prepare for the next major readiness milestone (Build Phase).
- Continue to work with Internal Business Units on Readiness mitigation strategies towards the Build phase
- Continue Phase 2 Process Walkthrough sessions for remaining 12 of the 17 business processes across impacted Business Units.
- Complete the last internal MRTU Level 200 training session for mandatory attendees
- Continue conducting the 1st follow-up Assessment with Market Participants
- Continue tracking all readiness activities using updated Readiness Criteria for August report
- Complete one remaining MRTU Market Participant Bid to Bill session hosted by WAPA the last week of August
- Begin creating additional Settlements training materials to deliver in multiple workshops to the Market Participants
- Continue gathering documentation for 2nd 60 Day Certification Status Milestone targeted for 10/01/07

CERTIFICATE OF SERVICE

I hereby certify that I have caused the public version of the foregoing document to be served upon the Public Utilities Commission of the State of California and upon all parties of the official service lists maintained by the Secretary for Docket No. ER06-615.

Dated at Folsom, California, this 3rd day of August 2007.

<u>/s/ Charity N. Wilson</u> Charity N. Wilson