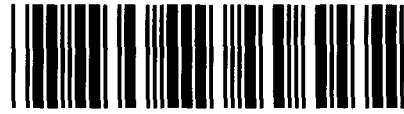




Control Number: 48540



Item Number: 4

Addendum StartPage: 0

**PROJECT NO. 48540
PUBLIC UTILITY COMMISSION OF TEXAS**

PUBLIC NOTICE OF REQUEST FOR COMMENTS

REVIEW OF REAL-TIME CO-OPTIMIZATION IN THE ERCOT MARKET

2018 AUG -9 PM 4: 43
PUBLIC UTILITY COMMISSION
FILING CLERK

The staff of the Public Utility Commission of Texas (commission) requests comments on questions regarding Project No. 48540, *Review of Real-Time Co-optimization in the ERCOT Market*. Written comments may be filed by submitting 16 copies of such comments to the commission's filing clerk, Public Utility Commission of Texas, 1701 North Congress Avenue, P.O. Box 13326, Austin, Texas 78711-3326 within 45 days of the date of publication of this notice. Comments longer than 10 pages should also be filed in digital native format via the commission's electronic filer at: <http://interchange.puc.texas.gov/filer>. Reply comments are not requested at this time. All responses should reference Project Number 48540.

Questions concerning this notice should be referred to Mark Bryant at (512) 936-7279 or mark.bryant@puc.texas.gov. Hearing and speech-impaired individuals with text telephones (TTY) may contact the commission through Relay Texas by dialing 7-1-1.

1. What are the benefits of implementing real-time co-optimization (RTC) of the energy and ancillary services in the ERCOT market over the long term?
2. Are the benefits identified in response to Question 1 sufficient to justify the near term costs to the market as a whole? Please consider individual stakeholder implementation costs as well as the costs to ERCOT identified in its study.
3. What are the effects on retail customers and the retail market from the implementation of RTC?
4. What costs would be incurred by market participants if ERCOT implemented RTC? Please provide an estimate of the costs that would be incurred by your company or companies or customers represented by your organization. Please describe the elements of those costs.
5. How would a decision to implement RTC affect your company's market systems?
6. How would a decision to implement RTC affect your company's internal operations?

7. What are the effects of RTC on reliability of the ERCOT grid?
8. How would a decision to implement RTC affect investment in new generation resources in ERCOT over the next five years, the next 10 years, and in the years beyond 10 years?
9. Do the ERCOT and IMM analyses of the benefits of implementation RTC accurately measure such benefits? Are potential costs to the market or market participants adequately accounted for?
10. What is the appropriate funding mechanism for the ERCOT implementation costs associated with RTC? How should these costs be recovered?
11. How would RTC change the ancillary services market?
12. What effects, if any, would the implementation of RTC have on the Congestion Revenue Rights (CRR) market?
13. What are the effects of implementing both RTC and marginal transmission losses on reliability and price formation?
14. Are there any synergies that may result from contemporaneous adoption of both RTC and marginal transmission losses?
15. What are the effects on retail customers and the retail market from the implementation of RTC and marginal transmission losses?
16. What effects, if any, would the implementation of RTC have on existing administrative scarcity pricing mechanisms, such as the Operating Reserves Demand Curve and the Reliability Deployment Price Adder?

**ISSUED IN AUSTIN, TEXAS ON THE 9th DAY OF AUGUST, 2018 BY THE
PUBLIC UTILITY COMMISSION OF TEXAS
ADRIANA A. GONZALES**