## California ISO

## PwC Report on the 2013 Market Controls Audit

Audit Committee Meeting General Session December 18-19, 2013



## Agenda

Background

**Results of Market Controls Audit** 

**Scope of Report** 

**Looking Forward** 

**Closing Thoughts** 

## **Background**

#### Form and purpose of report

- To report on the ISO's internal controls relating primarily to its market operations and settlements activities
- Reporting under the SSAE 16 Attestation Standard

#### Expected use of report

- Provide assurance to market participants who rely on the ISO's controls related to the ISO's market settlements
- The report is required by some market participants and their auditors to comply with Sarbanes-Oxley (404 Attest)

#### Report period

- October 1, 2012 – September 30, 2013

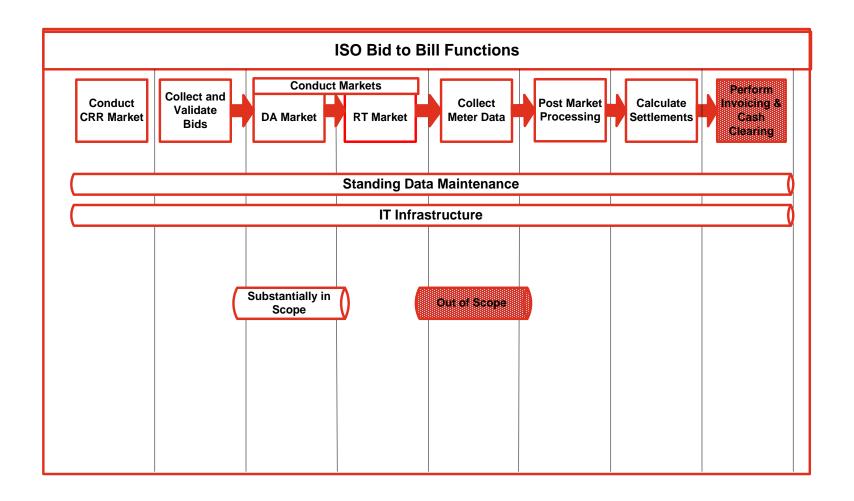
#### Results of Examination

- PwC opinion and report were issued on December 6, 2013
- The opinion is unqualified
  - System description is fairly stated
  - Controls were suitably designed
  - Controls were operating effectively
- Exceptions were identified during our testing for two control activities
  - Exceptions identified in the following areas:
    - Meter setup and initiation process
    - Change control monitoring process
  - Disclosed in the results section of the report
  - Determined to not impact the achievement of the related control objectives, and therefore did not impact the opinion

## Scope of Report

- Scope is similar to prior year market controls report issued in December 2012
- Processes not included in the scope of report
  - Control room and operational judgments and decisions
  - Processes after the settlement statement preparation (such as invoicing and market clearing)
  - Certain other functions that are transparent to the market
- Testing of controls
  - Covers 12 main areas (the 12 control objectives)
  - Over 60 different control activities tested
  - Over 1600 transactions/items tested

## Scope of Processes Covered



## **Audit Process Improvements**

- Applied lessons learned from prior year for increased productivity
- Restructured Testing Approach
  - Accelerated some testing to January to accommodate Critical Systems workload cycle
  - Consolidated update testing approach to a comprehensive single iteration – resulting in audit and data gathering efficiencies
- Pre-validation process through interviews with control activity owners before commencement of testing the data.
- Reporting process improvements including earlier completion of draft report by management (in advance of period end date)

## **Looking Forward**

- The next attestation period has already begun started on October 1, 2013
- PwC and ISO staff have begun planning for next year's internal controls audit
  - Continuous process improvement cycle
  - Debrief on 2013 and lessons learned for 2014
  - Recommendations related to potential controls improvement are being shared with management
  - No significant changes in control environment are anticipated by management in 2014

## **Closing Thoughts**

- The ISO continues to demonstrate a high level of ownership for the control environment and ownership of the controls report
- Benefits of the attestation include:
  - Direct assurance to market participants/ auditors
  - Internal assurance to ISO management related to market controls
  - Process improvement feedback from PwC
  - Governance coverage by ISO Board and Audit Committee
- Questions?

# Thank you

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