



# Wholesale Electricity Market 2014 Compliance Audits

18 March 2015



## What this session will cover

- Audit formalities
- Scope of 2014 audits
- IMO audit preparation
- Market Auditor's key findings



## **Audit formalities**

## Requirements and process

- IMO must appoint Market Auditor PA Consulting Group
- Annual requirement
- IMO audit must cover:
  - the compliance of the IMO's internal procedures and business processes with the market rules
  - > the IMO's compliance with the market rules and market procedures
  - the IMO's market software systems and processes for software management
- IMO requires System Management to be audited to verify compliance with market rules and market procedures
- Audit reports:
  - accept or prepare own report
  - published on the IMO's website
- Reports to the Minister



## Scope

## Type of audit and approach

- Audit period 10 August 2013 to 31 July 2014
- Incremental audit
  - partial assessment of whether the IMO or System Management (as the case may be) has complied with its obligations under the market rules and market procedures during the audit period.
  - > the relevant obligations for the purposes of an incremental compliance audit:
    - are new or have been amended since the most recent annual compliance audit;
       or
    - relate to areas of recorded breaches since the most recent annual compliance audit
- Limited exception IMO's internal procedures were comprehensively audited



## Scope

#### **IMO** compliance

- Examined changes to the market rules that commenced during the audit period, and how these
  have been incorporated into market procedures and the IMO's internal procedures
- Examined breaches of the market rules recorded by the IMO during the audit period
- Compliance tested areas of the IMO's business operations that PA considered may have posed a compliance risk

#### **IMO** software management processes

- Examined the IMO's documented processes for software management
- Compared the documented processes to operational practices
- Reviewed the compliance of operational practices with the market rules

#### **IMO** software changes

- Reviewed all system changes implemented during the audit period
- Assessed whether those changes had potential for material impact on prices and quantities
- Reviewed whether those changes were certified as required under the market rules
- Reviewed all rule changes that commenced during the audit period
- Assessed whether any rule changes required system changes
- Assessed whether any changes were not implemented



# Scope

#### **System Management**

 Examined changes to the market rules that commenced during the audit period, and how these have been incorporated into Power System Operation Procedures and System Management's internal procedures

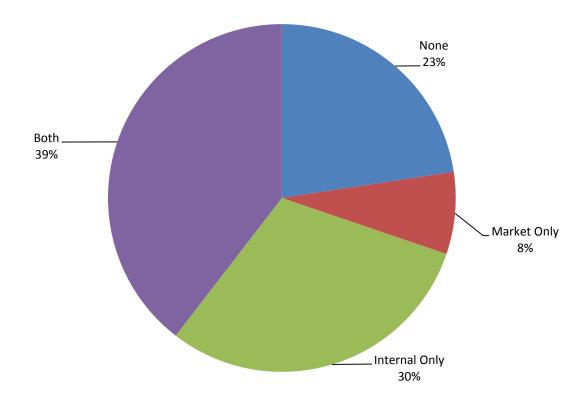
- Examined breaches of the market rules identified by System Management and the IMO during the audit period
- Examined System Management business functions that relate to areas of non-compliance identified in previous audits



# **IMO** audit preparation

## **IMO** obligations

- IMO has approximately 1,000 obligations under the market rules
- 77% require some form of documentation





## **IMO** audit preparation

#### **Audit readiness project**

- Commenced December 2013
- Two phases:
  - Mapping Phase
    - Identified the IMO's obligations under the market rules
    - Mapped each obligation to the relevant internal procedure, market procedure or software
    - Identified any gaps (e.g. which obligations should be documented and are not, or have not been documented properly)
  - Documentation Phase
    - Addressed documentation gaps by developing new internal procedures or amending existing procedures (documentation gaps increase non-compliance risk)
- Created an Obligations Report during Mapping Phase



#### **IMO Compliance Audit**

- 20 market rules breached (some multiple times)
- Majority of breaches were technical and will be addressed through rule changes
   eg MR 9.4.7 failure to acknowledge Capacity Credit Allocation submissions by telephone within 30 minutes the IMO uses an automated confirmation system
- PA found one material breach

IMO incorrectly calculated RCOQ on business days for two DSPs between January 2013 and November 2013 due to a software defect. The financial impact of the breach was \$26,000. In other words, due to the software defect, the IMO had collected \$26,000 more in refunds from the two DSPs than it should have. The IMO has since returned the \$26,000 to the affected participants, and has corrected the software defect

 PA selected a further 36 obligations on the IMO for compliance testing. Of those obligations, PA identified minor non-compliances in respect of six obligations



#### IMO Compliance Audit (cont'd)

- Other findings related to compliance risk
  - IMO has identified or implemented remedial actions in respect of each breach
  - Marked improvement in the quality of controls being used by the IMO to manage noncompliance risk
  - Significant improvement in the coverage and quality of the IMO's internal procedures
  - Except for a relatively small number of obligations, the IMO's internal procedures capture all
    of its obligations under the market rules
- IMO's market procedures and internal procedures comply with the market rules in all material respects



#### **IMO Software Compliance Audit**

- Two non-material breaches relating to software release processes
- PA found that the IMO's software correctly implements the calculations embodied in the market rules – with one limited exception
  - Calculation of capacity refunds for partially commissioned intermittent generator under clause 4.26.1A(a)(ivA)
  - Addressed in production release November 2014
- IMO has continued to improve its software management processes, and has increased the level of automation in the WEMS build and release process, which reduce the risk of non-compliance
- WEMS change, test and release processes continue to perform well



#### **System Management**

- 27 market rules breached (some multiple times)
- PA found material breaches of six market rules relating to implementing market dispatch, and developing and publishing critical market information
- In summary, PA found instances of where System Management did not:
  - ➢ issue dispatch advisories "as soon as practicable after System Management becomes aware of a situation requiring the release of a dispatch advisory
  - ➢ issue dispatch advisories when significant outages of generation transmission or customer equipment are occurring or expected to occur
  - > include particular information in dispatch advisories
  - provide correct LFAS enablement quantities to the IMO
  - provide the IMO with best estimate load forecast
  - use facilities for LFAS in accordance with the LFAS merit order
- PA analysed a sample of data and did not find any systemic issues with dispatch out of merit



#### **System Management**

- Other findings related to compliance risk
  - PA has noted that compliance self-reporting practices still appear to be robust, with staff proactively notifying potential compliance issues
  - Need for System Management to define a robust service level agreement for support of its planning, scheduling and dispatch systems
  - Need clearer definition of how System Management and other parts of Western Power interact across the ring-fence
  - Minimal progress on improving and reorganising internal procedures, with ownership and governance of control room procedures currently unclear
  - PA identified difficulties in monitoring compliance in relation to balancing portfolio dispatch including auditing forced outage notifications (due to lack of records other than phone records)

