

Commissioning Huntly Unit 5

Industry briefing
20 November 06

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Agenda

- Welcome – Kieran Devine, GM System Operations
- Introduction (5 min)
- Technical changes (15-20 min)
 - Risks covered
 - Tool changes
- Operational process (15-20 min)
- Scenarios and impact analysis (15 min)
- Questions and discussion (45 min)
- Close

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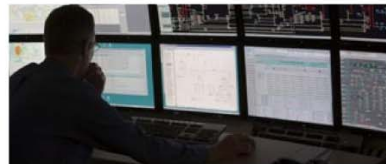
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Operational process for Huntly Unit 5 commissioning

Andrew Twaddle
Operations Manager

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Overview

- Business as usual during HLY5 commissioning.
- Operational instruction developed for Coordination Centre staff detailing process to be used during HLY5 commissioning, this includes:
 - changes to Reserve Management Tool
 - managing system security i.e. Zone 1 voltage stability
 - deficit of energy and/or reserves in the schedules
 - communications, to both internal and external stakeholders.
- Coordination Centre staff currently being trained in the process and tool changes.

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Publication of the Schedules

- No changes in the current process.
- Pre-Dispatch Schedule (PDS) will continue to be produced and published every 2 hours from 13:00 today through to 23:59 tomorrow:
 - maximum MW risk in each island
 - total reserve scheduled in each island.

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Publication of the Schedules

- Schedule of Dispatch Prices and Quantities (SDPQ) will continue to be produced and published every 30 minutes from 13:00
 - covers 8 trading periods i.e. the current and the next 7
 - provides a closer-to-real-time view of scheduled quantities and prices
 - uses the load forecast instead of bids.

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Deficit of energy and/or reserves

More than 2 hrs from real-time

- Situation will be monitored. However, no action will be taken other than the routine process of confirming the inputs into the schedule:
 - load forecast
 - modelling of grid asset outages in SPD
 - constraints.
- Intended that participants will react to pricing signals using the market mechanisms prior to gate closure.

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Deficit of energy and/or reserves

Within 2 hours of real-time

- HLY5 setting the contingent event risk (contingent event as defined on slide 14):
 - HLY5 output reduced to the level of reserves available
 - RMT/SPDQ re-solved to ensure prices now feasible
 - if feasible, constraint entered in dispatch to limit HLY5 generation for the trading period concerned
 - if infeasible, process repeated, lowering HLY5 output until a feasible solution is obtained.

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Deficit of energy and/or reserves

Within 2 hours of real-time

- HLY5 is the secondary contingent event risk:
 - HLY5 output reduced to level of secondary extended contingent event
 - RMT/SPDQ re-solved to ensure prices now feasible
 - if feasible, constraint entered in dispatch to limit HLY5 generation for the trading period concerned
 - if infeasible, process repeated, lowering HLY5 output until a feasible solution is obtained.

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Deficit of energy and/or reserves

Within 2 hours of real-time

- HLY5 is assessed as the secondary extended contingent event risk:
 - HLY5 output reduced
 - RMT/SPDQ re-solved to ensure prices now feasible
 - if feasible, constraint entered in dispatch to limit HLY5 generation for the trading period concerned
 - if infeasible, process repeated, lowering HLY5 output until a feasible solution is obtained.

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Deficit of energy and/or reserves

Within the current trading period

- Output of HLY5 reduced:
 - dispatch management tool used to confirm solution now feasible
 - imported into RMT and re-solved for current trading period
 - re-solved using dispatch tool and if feasible, solution dispatched
 - if infeasible, process repeated, lowering HLY5 output until a feasible solution is obtained.
- CE Reserve Adjustment Factor will not be zeroed when HLY5 is connected to the system (deviation from policy statement; part C, schedule C4, 23.1 of the EGRs).

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Backing Off Generation

- Where the solution reduces a generator's output but a bona fide or claim is made under rule G III 4.11.1 of the EGRs:
 - details recorded, constraint applied and solution re-solved
 - if feasible, solution dispatched
 - if infeasible:
 - and generator not required for security, generator will be instructed to follow dispatch or go to a lower level of sustainable generation
 - and generator required for security, output of HLY5 will be reduced for the current trading period and solution re-solved
 - if feasible, solution dispatched
 - if still infeasible, process repeated, lowering output of HLY5 and re-solving until a feasible solution obtained.

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Notification to Participants

- Key points in HLY5 commissioning to be notified to participants:
 - date when unit initially synchronises to the system
 - dates each system ride through test to take place
 - dates each drop load test to take place
 - date when HLY5 will be treated as a normal risk.
- Communication of these dates will be via Customer Advice Notices to participants.

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