

Single Electricity Market

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| Final REcommendation Report  Mod\_10\_13: Removal of Requirement for SOs to send certain Dispatch Instruction Codes and Instruction Combination Codes for Pumped Storage Units to the MO  23 october 2013 |

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Document History

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| **Version** | **Date** | **Author** | **Comment** |
| 1.0 | 23 October 2013 | Modifications Committee Secretariat | Issued to Modifications Committee for review and approval |
| 2.0 | 31 October 2013 | Modifications Committee Secretariat | Issued to Regulatory Authorities for final decision |

Reference Documents

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| **Document Name** |
| [Trading and Settlement Code](http://semopub/MarketDevelopment/MarketRules/TSC.doc) |
| [Mod\_10\_13 Removal of Requirement for SOs to send certain Dispatch Instruction Codes and Instruction Combination Codes for Pumped Storage Units to the MO](http://semopub/MarketDevelopment/ModificationDocuments/Mod_10_13%20Dispatch%20Instructions%20for%20Pumped%20Storage%20Units_v0%202.docx) |
| [Meeting 51 Slides](http://semopub/MarketDevelopment/ModificationDocuments/MOD_10_13_DIs_Pumped_Storage%20Slides.pptx) |

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# MODIFICATIONS COMMITTEE RECOMMENDATION

## Recommended for Approval– unanimous Vote

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| **Recommended for Approval by Unanimous Vote** | | |
| Áine Dorran | Generator Alternate | Approved |
| Brian Mongan | Generator Alternate | Approved |
| Connor Powell | Supplier Alternate | Approved |
| Kevin Hannafin | Generator Alternate | Approved |
| Mary Doorly | Generator Alternate | Approved |
| Patrick Liddy | DSU Member | Approved |
| William Steele | Supplier Member | Approved |

# Background

This Modification Proposal was raised by EirGrid and was received by the Secretariat on 23 September 2013. This modification proposes to no longer send the different Dispatch Instruction Codes and Instruction Combination Codes which are used to differentiate between the different modes of operation of Pumped Storage units. These instructions are not required by the Instruction Profiler to profile the instructions into Dispatch Quantities in SEM, therefore the SOs propose that they are no longer sent to the Market Operator. The proposal will be discussed at Meeting 51.

The Modification Proposal was presented and discussed at Meeting 51 on 08 October 2013 where it was voted on.

# PURPOSE OF PROPOSED MODIFICATION

## 3A.) justification of Modification

Dispatch Instructions are issued by the SOs in real time to instruct Generator Units to achieve certain levels of output in order to maintain a secure power system. These instructions are often issued in “blocks” of more than two Dispatch Instructions at the same time, where particular instructions must be issued in combination with others. When these instructions have the same Instruction Effective Time, a hierarchy (described in Appendix O. of the T&SC) is used to rank and validate them, such that the highest ranked Dispatch Instruction is used in Instruction Profiling.

When certain Instruction Codes and Instruction Combination Codes are issued for Pumped Storage Units, instructions within the “block” issued by the SOs are ignored due to the ranking hierarchy performed as part of the Dispatch Instruction validation described in Appendix O. The SOs propose to remove the obligation to provide the GOOP+PGEN, GOOP+SCT and GOOP+SCP instructions entirely. The GOOP+PUMP instruction would remain unchanged. The purpose of this is to avoid situations where these instructions could impact on other instructions issued at the same time, particularly the DESY instruction which may be ignored by the Dispatch Instruction validation in some circumstances.

These instructions will still be issued by the Control Centres to Pumped Storage units via EDIL, so there will be no change to how real-time operations are carried out. The modification proposes that the SOs, as part of the process of preparing and sending Dispatch Instructions, remove them prior to providing the data feed to SEM. There is no impact on Appendices E or K of the T&SC, or on Agreed Procedure 6, Appendix 2.

## 3B.) Impact of not Implementing a Solution

Should this Modification Proposal not be implemented, there is the possibility that DESY instructions for Pumped Storage Units will not be profiled by the Instruction Profiler. This would have an impact on subsequent SYNC, TRIP and FAIL instructions to the unit and could result in incorrect Dispatch Quantities being profiled.

## 3c.) Impact on Code Objectives

This Modification Proposal furthers the Code Objective 1.3(2) “to facilitate the efficient, economic and coordinated operation, administration and development of the Single Electricity Market in a financially secure manner.”

# Working Group and/or Consultation

N/A

# impact on systems and resources

N/A

# Impact on other Codes/Documents

N/A

# MODIFICATION COMMITTEE VIEWS

## Meeting 51 – 08 october 2013

Proposer presented slides on proposal advising that the modification proposes to no longer send certain Dispatch Instruction and Instruction Combination Codes which are used to differentiate between the different modes of operation of Pumped Storage units. These particular instructions are not required by the Instruction Profiler (IP) to profile the instructions into Dispatch Quantities in SEM, however it has been observed that they can cause an issue in the validation process. Therefore, the SOs propose that they are no longer sent to the Market Operator. Proposer confirmed that confirmation has been received from the vendor advising that there is no impact on instruction profiling if the instructions are removed.

Proposer stated that there will be no change required to the MO or SO systems should the proposal be implemented and that Pumped Storage Units will still receive the same instructions as always via EDIL. However there will be a process change in the TSOs preparation of Dispatch Instruction Data feeds.

Generator Alternate sought clarification in relation to the issue identified in the validation process which led to the proposal being raised. Proposer advised that even though the particular unit was unavailable following a failure to synchronise, a dispatch quantity was profiled, and it appeared as though the unit had not responded to a dispatch instruction to generate.

MO Member advised that the IP is functioning as specified and that there is no defect within the IP.

Chair queried as to why the instructions were the reason for the anomaly. Proposer advised that a particular sequence of events led to a FAIL instruction not being validated. Proposer further advised that based on testing of different means of sending the Dispatch Instructions in question carried out in a test environment, the change proposed in the modification is the simplest solution to avoid the particular issue recurring.

MO Member advised that there is currently some filtering of the Dispatch Instructions carried out.

Generator Alternate queried as to whether the instructions are used elsewhere in the SEMO systems. Proposer advised they are not.

Generator Alternate queried as to whether this issue could arise subsequently.

Proposer stated that a unique combination of events had lead to this issue being discovered. The SOs and MO are confident that removing the requirement to send the Dispatch Instructions and Instruction Combination Codes in this Modification Proposal will ensure that this issue does not recur.

# Proposed Legal Drafting

As set out in Appendix 1 below.

# LEGAL REVIEW

Complete

# IMPLEMENTATION TIMESCALE

It is proposed that this Modification is implemented on a Trading Day basis with effect from one Working Day after an RA Decision is made.

Appendix 1: Mod\_10\_13

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| **MODIFICATION PROPOSAL FORM** | | | | | |
| **Proposer** | **Date of receipt** | | **Type of Proposal** | | **Modification Proposal ID** |
| **Siobhán McHugh** | **23 September 2013** | | **Standard** | | **Mod\_10\_13** |
| **Contact Details for Modification Proposal Originator** | | | | | |
| **Name** | | **Telephone number** | | **Email address** | |
| **Siobhán McHugh** | | **+35312370000** | | [siobhan.mchugh@eirgrid.com](mailto:siobhan.mchugh@eirgrid.com) | |
| **Modification Proposal Title** | | | | | |
| **Removal of Requirement for SOs to send certain Dispatch Instruction Codes and Instruction Combination Codes for Pumped Storage Units to the MO** | | | | | |
| **Documents affected** | | **Section(s) Affected** | | **Version number of T&SC or AP used in Drafting** | |
| **T&SC** | | **Appendix O** | | **13.0** | |
| **Explanation of Proposed Change**  *(mandatory by originator)* | | | | | |
| Due to the complex operation of Pumped Storage units, several different Dispatch Instructions Codes and Instruction Combination Codes are used to differentiate between the different modes of operation of the units. These instructions are not required by the Instruction Profiler to profile the instructions into Dispatch Quantities in SEM. Therefore, the SOs propose that they are no longer sent to the Market Operator. | | | | | |
| **Legal Drafting Change**  *(Clearly show proposed code change using* ***tracked*** *changes, if proposer fails to identify changes, please indicate best estimate of potential changes)* | | | | | |
| Appendix O   |  |  | | --- | --- | | O.16 | A Dispatch Instruction having a GOOP Instruction Code and having a SCP Instruction Combination Code may precede a Dispatch Instruction having a GOOP Instruction Code and a PUMP Instruction Combination Code. | | | | | | |
| **Modification Proposal Justification**  *(Clearly state the reason for the Modification)* | | | | | |
| Dispatch Instructions are issued by the SOs in real time to instruct Generator Units to achieve certain levels of output in order to maintain a secure power system. These instructions are often issued in “blocks” of more than two Dispatch Instructions at the same time, where particular instructions must be issued in combination with others.  When these instructions have the same Instruction Effective Time, a hierarchy (described in Appendix O. of the T&SC) is used to rank and validate them, such that the highest ranked Dispatch Instruction is used in Instruction Profiling.  When certain Instruction Codes and Instruction Combination Codes are issued for Pumped Storage Units, instructions within the “block” issued by the SOs are ignored due to the ranking hierarchy performed as part of the Dispatch Instruction validation described in Appendix O. The SOs propose to remove the obligation to provide the GOOP+PGEN, GOOP+SCT and GOOP+SCP instructions entirely. The GOOP+PUMP instruction would remain unchanged.  The purpose of this is to avoid situations where these instructions could impact on other instructions issued at the same time, particularly the DESY instruction which may be ignored by the Dispatch Instruction validation in some circumstances.  These instructions will still be issued by the Control Centres to Pumped Storage units via EDIL, so there will be no change to how real-time operations are carried out. The modification proposes that the SOs, as part of the process of preparing and sending Dispatch Instructions, remove them prior to providing the data feed to SEM.  There is no impact on Appendices E or K of the T&SC, or on Agreed Procedure 6, Appendix 2. | | | | | |
| **Code Objectives Furthered**  *(State the Code Objectives the Proposal furthers, see Section 1.3 of T&SC for Code Objectives)* | | | | | |
| This Modification Proposal furthers the Code Objective 1.3(2) “to facilitate the efficient, economic and coordinated operation, administration and development of the Single Electricity Market in a financially secure manner.” | | | | | |
| **Implication of not implementing the Modification Proposal**  *(State the possible outcomes should the Modification Proposal not be implemented)* | | | | | |
| Should this Modification Proposal not be implemented, there is the possibility that DESY instructions for Pumped Storage Units will not be profiled by the Instruction Profiler. This would have an impact on subsequent SYNC, TRIP and FAIL instructions to the unit and could result in incorrect Dispatch Quantities being profiled. | | | | | |
| **Working Group**  *(State if Working Group considered necessary to develop proposal)* | | | **Impacts**  *(Indicate the impacts on systems, resources, processes and/or procedures)* | | |
| N/A | | | The sole impact is on the SOs business process for preparing and sending Dispatch Instructions to the Market Operator. These instructions will be manually removed from the data feed prior to transmission to the Market Operator.  No impact on the Central Market Systems. | | |
| ***Please return this form to Secretariat by email to*** [*modifications@sem-o.com*](mailto:modifications@sem-o.com) | | | | | |