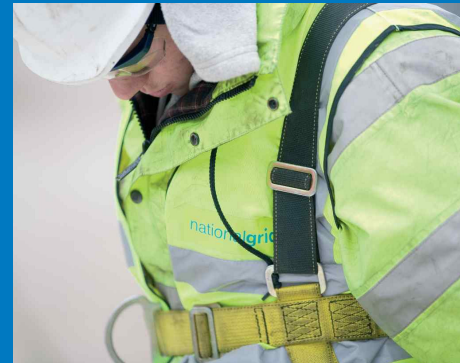


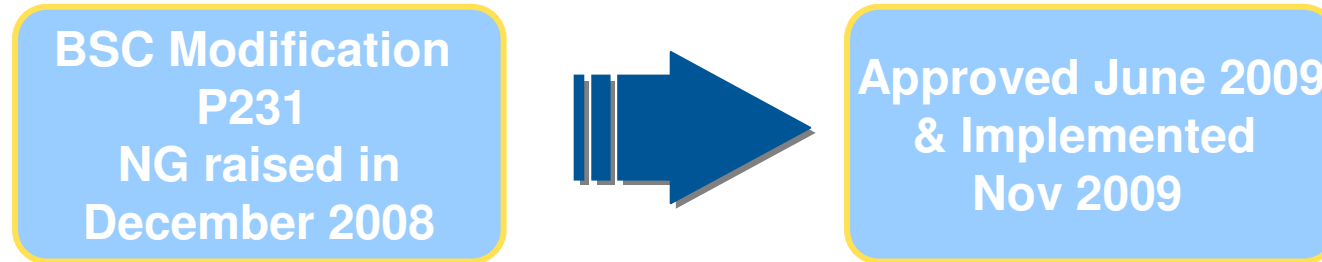
# Black Start



Ben Smith – GCRP 17<sup>th</sup> February 2011

# Introduction to P231

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## **Objective:**

Improve transparency arrangements and obligations associated with a Black Start or Fuel Security Code (FSC) event.

## **Grid Code:**

Consider whether the changes are required to Grid Code to bring it in line with those changes made to the BSC under P231 to ensure both codes are consistent and aligned.

## Grid Code Changes – OC9.4

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Remove reference to BSCCo determining the start of a Black Start – Replace with the Transmission Company

Requirement on National Grid to inform BSCCo when the Transmission System is energised

Requirement on National Grid to notify BSCCo that the events which gave rise to the Black Start no longer exist

Requirement on Parties to use reasonable endeavours to submit Physical Notifications ten hours prior to the end of the Black Start

Remove reference to BSCCo determining the start of a Black Start – Replace with the Transmission Company

## OC9.4.6

In the event of a **Total Shutdown** or **Partial Shutdown**, **NGET** will, as soon as reasonably practical, inform **Users** (or, in the case of a **Partial Shutdown**, **Users** which in **NGET's** opinion need to be informed) and the **BSCCo** that a **Total Shutdown**, or, as the case may be, a **Partial Shutdown**, exists and that **NGET** intends to implement a **Black Start**. Following such notification, in accordance with the provisions of the **BSC**, ~~the **BSCCo** may determine the time with effect from which the **Balancing Mechanism** is suspended.~~ **NGET shall (as soon as is practicable) determine, in its reasonable opinion, the time and date with effect from which the **Total Shutdown** or **Partial Shutdown** commenced and inform **BSCCo** of that time and date.**

Possible requirement on National Grid to inform BSCCo  
when the Transmission System is energised

- Covered in OC9.4.7.9

*OC9.4.7.9*

***NGET** shall, as soon as reasonably practical, inform **Users** and the **BSCCo** when the **Total System** could return to normal operation....*

...In making the determination that the **Total System** could return to normal operation, **NGET**, would consider, amongst other things, the following areas:

(a) the extent to which the **National Electricity Transmission System** is contiguous and energised

- No benefit in adding or amending additional wording

Possible requirement on National Grid to notify BSCCo that the events which gave rise to the Black Start no longer exist and the market is capable of operating normally

- Under OC9.4.7.9 NGET already informs users and the BSCCo when the system could return to normal operation.

In making the determination that the **Total System** could return to normal operation, **NGET**, would consider a number of physical things, such as.

- (a) Tx system is contiguous and energised*
- (b) integrity and stability*
- (c) impact that returning to normal may have on transmission constraints*
- (d) volume of generation or demand not connected*
- (e) functionality of normal communication systems (i.e. EDT, Control Telephony, etc)*

- **No additional wording is required**

Requirement on Parties to use reasonable endeavours to submit Physical Notifications ten hours prior to the end of the Black Start

## OC9.4.7.9

For the avoidance of doubt, until the Conclusion of the **Black Start** the **Balancing Mechanism** is unlikely to be operational and **NGET** is likely to continue to issue **Emergency Instructions** in accordance with BC2.9.

*Users shall use reasonable endeavours to submit **Physical Notifications** ten hours prior to the start of the **Settlement Period** determined by the **BSC Panel** in accordance with paragraph G3.1.2(d) of the BSC, in preparation for a return to normal operations.*

### ■ Additional point raised (John Norbury) to include...

*"and as notified by NGET to Users."*

## Wider Issue – Outstanding Action

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### Recommendation

- Working group be formed to address Industry concerns made during P231, in relation to defining a ‘Local Shutdown’

### Indicative High Level ToR

- Determine whether the market should be suspended following a Local Shutdown
- Membership should be invited from the Grid Code standard distribution list together with those involved in BSC modification P231
- A Working Group report should be delivered with the findings, a summary of discussions and final recommendations (including proposed revisions to the Grid Code).



## Recommendations

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I invite the panel to:

- Comment on the changes shown and agree to raising a consultation to industry to present these changes
- Agree that a working group should now be established next steps to circulate ToR and seek working group members