

Interconnector Frequency Response Working group – Meet 4

Neil Rowley 12th April 2010



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Agenda

- ◆ Discuss actions from last meeting
- ◆ Discuss CUSC legal text
- ◆ Discuss Potential BSC modification
- ◆ Next steps

Action 1

- ◆ National Grid to request Ofgem's view on whether interconnectors can provide FR
 - ◆ Request sent as of 26/03/12
 - ◆ Awaiting response

Action 2

- ◆ Use of the Stable Export Limit (SEL) for FR
- ◆ SEL is discussed within The Mandatory FR Guide document on the NG website

<http://www.nationalgrid.com/NR/rdonlyres/84F3D9B9-83F8-4C89-9443-CA16E1A0BCA6/39358/MandatoryFrequencyResponseGuideVersion1.pdf>

- ◆ Use of SEL
 - ◆ Trigger point for payment
 - ◆ $BM \text{ Profile} > SEL = \text{payment for expected output}$

Action 3

- ◆ National Grid to investigate whether the Grid Code (GC) De-load definition need to be changed for this work
- ◆ National Grid does not believe a change is required
- ◆ De-load is only within the GC in relation to Black Start
 - ◆ OC.5.7.2.1 & 2, describing the state of the Black Start tested unit
- ◆ Therefore, it is only the CUSC De-load definition that has any meaning in FR terms

Action 4

- ◆ NG to investigate whether PPM could fall within the GC definitions intended for ICs
- ◆ National Grid do not believe that PPM could be caught by the definition for interconnectors (DC Converter Station)
- ◆ DC Converter Station
 - ◆ An installation comprising 1 or more onshore DC Converters connecting a direct current interconnector;
 - to the NGET Transmission System or,
 - to a User System (>50MW),
 - and it shall form part of the External Interconnection to which it relates

Action 4

- ◆ DC Converter Station must be part of an EXTERNAL INTERCONNECTION
- ◆ External Interconnection is apparatus connecting an EXTERNAL SYSTEM
- ◆ External System is a transmission or distribution system outside the NETSO AREA
- ◆ NETSO Area is the GB, the territorial sea adjacent to and any Renewable Energy Zone (this includes R3)

Action 5

- ◆ National Grid to circulate proposed CUSC legal text by the 19th March
- ◆ Action complete (as of the 22nd March)
- ◆ Comments received from 2 group members
 - ◆ 4.1.3.2 (d) – FR provision only when flow is towards GB
 - ◆ What is the obligation?
 - ◆ De-Load definition – As specified within MSA
 - ◆ Why not within section 4?
 - ◆ Unique reference program
 - ◆ Solution – Principle defined with section 4, detail within MSA
 - ◆ 4.1A Warranty – relating the MSA to the Interconnector Error Administrator (IEA)
 - ◆ Is this required?
 - ◆ Is this an issue for the ICs to manage?

Action 6

- ◆ Elexon to examine implementation costs of SAA IC account determination
- ◆ Elexon provided verbal update

Action 7

- ◆ Elexon to review BMRS information provision options
- ◆ Elexon provided verbal update

Next Steps

- ◆ CUSC Legal text
- ◆ BSC modifications
- ◆ Working Group report