Grid Code
Modification Proposal Form

Email to gridcode@eirgrid.com

Title of Modification Proposal:

MPID 288 Incorporation of Black Start Testing Intervals as defined by Commission Regulation (EU) 2017/2196 "Establishing a Network Code on Electricity Emergency And Restoration" (NCER).

MPID (EirGrid Use Only): 288

Date:	16 October 2020		
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Grid Code Version:	8.1		
Grid Code Section(s) Impacted by Modification Proposal:	OC.10.5.7.3		

Background to Modification:
COMMISSION REGULATION (EU) 2017/2196 of 24 November 2017 "establishing a network code on electricity emergency and restoration" (referred to as **NCER** hereafter) came into force on the 18th of December 2017. The NCER details measures for the purposes of safeguarding operational security, preventing the propagation or deterioration of an incident to avoid a widespread disturbance and the blackout state as well to allow for the efficient and rapid restoration of the electricity system from the emergency or blackout states. The NCER includes

1. the management by TSOs of the emergency, blackout and restoration states;
2. the coordination of system operation across the Union in the emergency, blackout and restoration states;
3. the simulations and tests to guarantee a reliable, efficient and fast restoration of the interconnected transmission systems to the normal state from the emergency or blackout states;
4. the tools and facilities needed to guarantee a reliable, efficient and fast restoration of the interconnected transmission systems to the normal state from the emergency or blackout states.

Under NCER, a Black Start Station and a Black Start Unit are known as "Restortation Service Providers".

As per NCER Article 2.2, the NCER applies to both new and existing Generators and Interconnectors.

Modification Proposal Justification:
Under Article 44.1 and Article 46 of the NCER, the Transmission System Operators (TSOs) of a member state is required to test Generation and Interconnector Black Start service providers "at least every three years". This modification will update the Grid Code to reflect this requirement. As the NCER has primacy, this is a legal requirement.

> NCER Article 44.1: "Each restoration service provider which is a power generating module delivering black start service shall execute a black start capability test, at least every three years, following the methodology laid down in Article 45(5) of Regulation (EU) 2016/631 [RfG]."
>
> NCER Article 46: "Each restoration service provider which is an HVDC system delivering a black start service shall execute a black start capability test, at least every three years, following the methodology laid

down in Article 70(11) of Regulation (EU) 2016/1447."

This modification proposes:

1. Including the NCER testing interval of "at least every three years" to Grid Code section OC.10.5.7.3 and
2. A re-wording of the existing clause OC.10.5.7.3 for the purpose of providing clarity and removing ambiguities.

For reference, the full NCER text is available on the ENTSO-E website.

Red-line Version of Impacted Grid Code Section(s) - show proposed changes to text:
Deleted text in ~~strike-through red font~~ and new text highlighted in blue font

~~OC.10.5.7.3~~

~~The **TSO** may require a **Generator or Interconnector Operator** with a **Black Start Station** to carry out a Black Start Unit Test at any time (but will not require a **Black Start Unit Test** to be carried out more than once in each calendar year in respect of any particular **CDGU** or **Interconnector** unless it can justify on reasonable grounds the necessity for further tests or unless the further test is a re-test, and will not require a **Black Start Station Test** to be carried out more than once in every two calendar years in respect of any particular **CDGU** unless it can justify on reasonable grounds the necessity for further tests or unless the further test is a re-test).~~

OC.10.5.7.3 **Black Start Test Intervals**

The **TSO** requires a **Generator** or **Interconnector Operator** with a **Black Start Station** to carry out a **Black Start Test** at least once every three calendar years.

OC.10.5.7.3.1 **Black Start Unit Test**

The **TSO** may require a **Black Start Unit Test** to be carried out at any time but no more than once in each calendar year in respect of any particular **CDGU** or **Interconnector** unless it can justify on reasonable grounds the necessity for further tests or unless the further test is a re-test.

OC.10.5.7.3.2 **Black Start Station Test**

The **TSO** may require a **Black Start Station Test** to be carried out at any time but no more than once in every two calendar years in respect of any particular **CDGU** or **Interconnector** unless it can justify on

reasonable grounds the necessity for further tests or unless the further test is a re-test.

Green-line Version of Impacted Grid Code Section(s) - show proposed final text:

OC.10.5.7.3 **Black Start Test Intervals**

The **TSO** requires a **Generator** or **Interconnector Operator** with a **Black Start Station** to carry out a **Black Start Test** at least once every three calendar years.

OC.10.5.7.3.1 **Black Start Unit Test**

The **TSO** may require a **Black Start Unit Test** to be carried out at any time but no more than once in each calendar year in respect of any particular **CDGU** or **Interconnector** unless it can justify on reasonable grounds the necessity for further tests or unless the further test is a re-test.

OC.10.5.7.3.2 **Black Start Station Test**

The **TSO** may require a **Black Start Station Test** to be carried out at any time but no more than once in every two calendar years in respect of any particular **CDGU** or **Interconnector** unless it can justify on reasonable grounds the necessity for further tests or unless the further test is a re-test.