



## NATIONAL GRID CT FAILURE

### OVERVIEW

Due to a catastrophic failure of an IMB420 400kV CT, National Grid has imposed a Risk Management Hazard Zone (RMHZ), which overlaps with some UKPN sites and therefore requires awareness and action.



### WHAT YOU NEED TO DO

- This supersedes a more onerous restriction that was put in place, via PowerOn, following initial notification from National Grid.
- Following further site specific assessment, the restrictions can now be relaxed slightly in accordance with this Restriction document.
- Refer to Table 2 on page 2 for the information about the sites affected and the actions that need to be taken.

### DETAIL

On the 30<sup>th</sup> of January 2021, an IMB420 CT failed catastrophically at National Grid's Hutton 400kV substation. No switching or other activity was taking place on site at the time. Debris from the explosion was found up to 130m from the failed asset. As a result, National Grid issued an Operational, Engineering and Safety Bulletin (OESB 2021/02) which imposes a 130m RMHZ with an inner 0-80m ring with tighter restrictions. Table 1 below summarises the restrictions imposed based on a number of different factors:

Table 1: National Grid RMHZ Definitions

Number of CTs	Distance From CT	Total Weekly Access Time*
1 (Single Phase)	0-80m	45 minutes
1 (Single Phase)	80-130m	36 hours
3 (3 Phase)	0-80m	Pass through only. No loitering
3 (3 Phase)	80-130m	12 hours

**\*Maximum cumulative time allowed for all staff activities at the affected site in a week**

The RMHZ imposed on National Grid's assets impacts upon a number of UKPN sites to varying degrees. It should be noted that lifting of these restrictions can only occur if the risk has been mitigated by National Grid via the decommissioning or replacement of the assets or if the risk is downgraded on the basis of further evidence from failure investigations.

It is the responsibility of line management to ensure all appropriate employees are issued with this document and to check their understanding of its content. This document will be subject to compliance audits within 14 days from the date of issue.

Table 2: Site Specific Operational Restriction Actions

DNO	Site Name	Action Required
EPN	Braintree 132kV	Update pin on PowerOn. Place sign on access gate. 'NG RMHZ. Total access time limited to 45 minutes per week. Contact UKPN Control before entering.'
EPN	Norwich Main 132kV	Update pin on PowerOn. Place sign on sealing end compound access gate. 'NG RMHZ. Total access time to sealing end compound limited to 12 hours per week'. Contact UKPN Control before entering.'
EPN	Grendon Grid 132kV	Update pin on PowerOn. Place sign on substation and access gate. 'Access road in NG RMHZ, pass through only, no parking or loitering. Contact UKPN Control before entering.'
EPN	Wymondley Main 132kV	Update pin on PowerOn. Place sign on sealing end compound access gate. 'NG RMHZ. Total access time to sealing end compound limited to 12 hours per week. Contact UKPN Control before entering.'
EPN	Walpole GIS 132kV	Update pin on PowerOn. Check that access gates are locked and signs affixed. 'No access until notified by National Grid. For emergency access, contact UKPN Control.'
EPN	CEGB 400 11kV	Update pin on PowerOn. Place sign on substation. 'Safe to access but no loitering anywhere else in National Grid compound. NG RMHZ in effect. Contact UKPN Control before entering.'
EPN	NG Switching Station 11kV	Update pin on PowerOn. Place sign on substation and access gate: 'Access road in NG RMHZ, pass through only, no parking or loitering. Contact UKPN Control before entering.'
EPN	National Grid Site Bulls Lodge 11kV	Update pin on PowerOn. Place sign on substation: 'NG RMHZ. Total access time limited to 45 minutes per week. Contact UKPN Control before entering.'
SPN	Canterbury North 132kV	Update pin on PowerOn. Ensure signs on access gates and barriers are in place: 'NG RMHZ. Total access time limited to 45 minutes per week'
SPN	Kemsley 132kV	Update pin on PowerOn. Place sign on access gate. Ensure signs and barriers are in place: 'NG RMHZ. Total access time limited to 45 minutes per week'

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