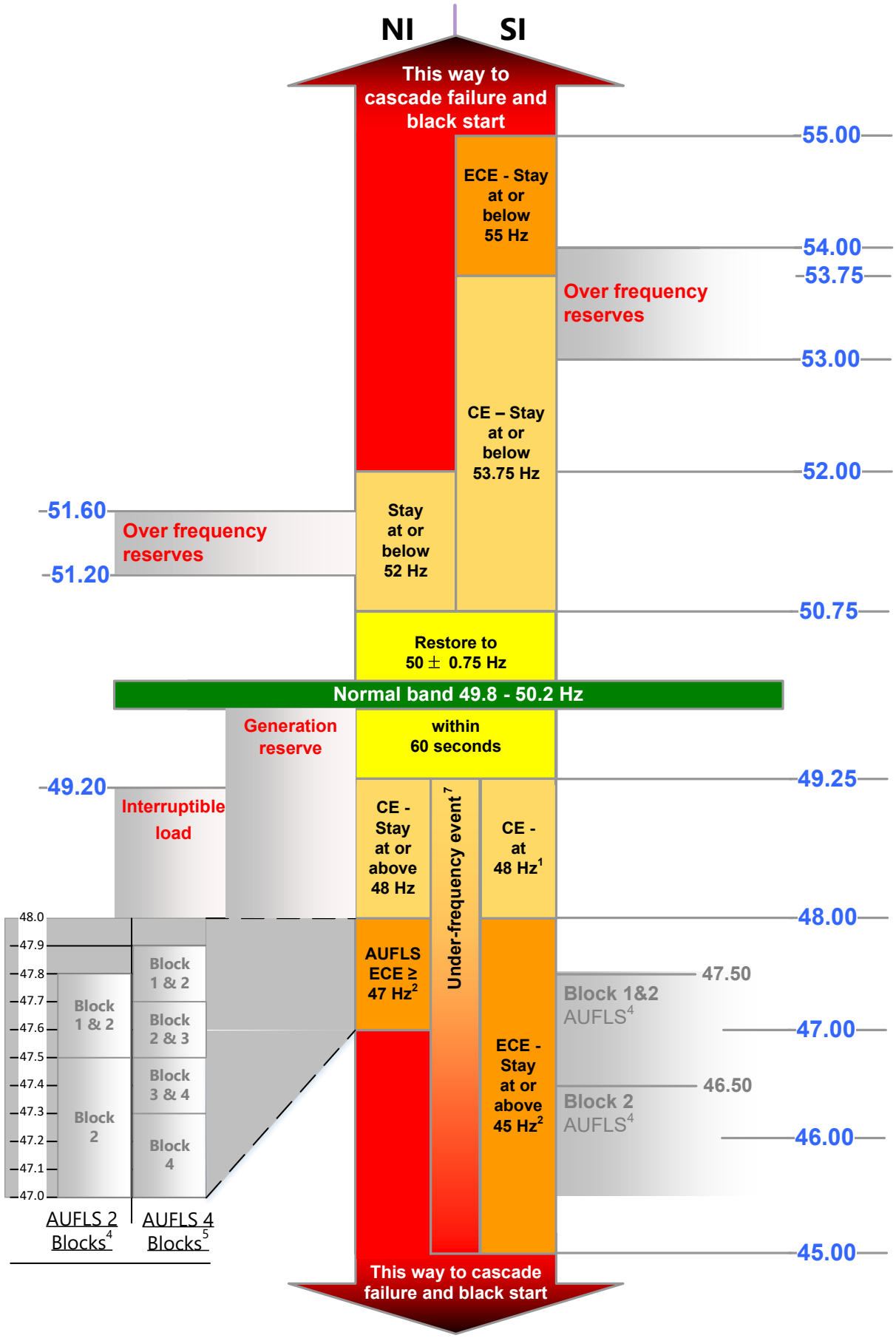
TRANSPOWER

Frequency Management Barometer



NOTES:

1 Where there is a shortage of instantaneous reserve for a contingent event the system operator will rely on the operation of AUFLS schemes or un-dispatched HVDC response, i.e. frequency can drop below 48 Hz.

2 With limited time below 47.3 Hz.

3 Transpower in its role as the system operator, has obligations to report on frequency fluctuations. In accordance with EIPC, Part 7, Clause 7(E), these are reported in the system operator monthly reports to the Electricity Authority.

4 For 2-block AUFLS: Part 8, Schedule 8.3, Tech Code B, Clause 7.

5 For 4-block AUFLS: transition until 30 June 2025, AUFLS Technical Requirements report.

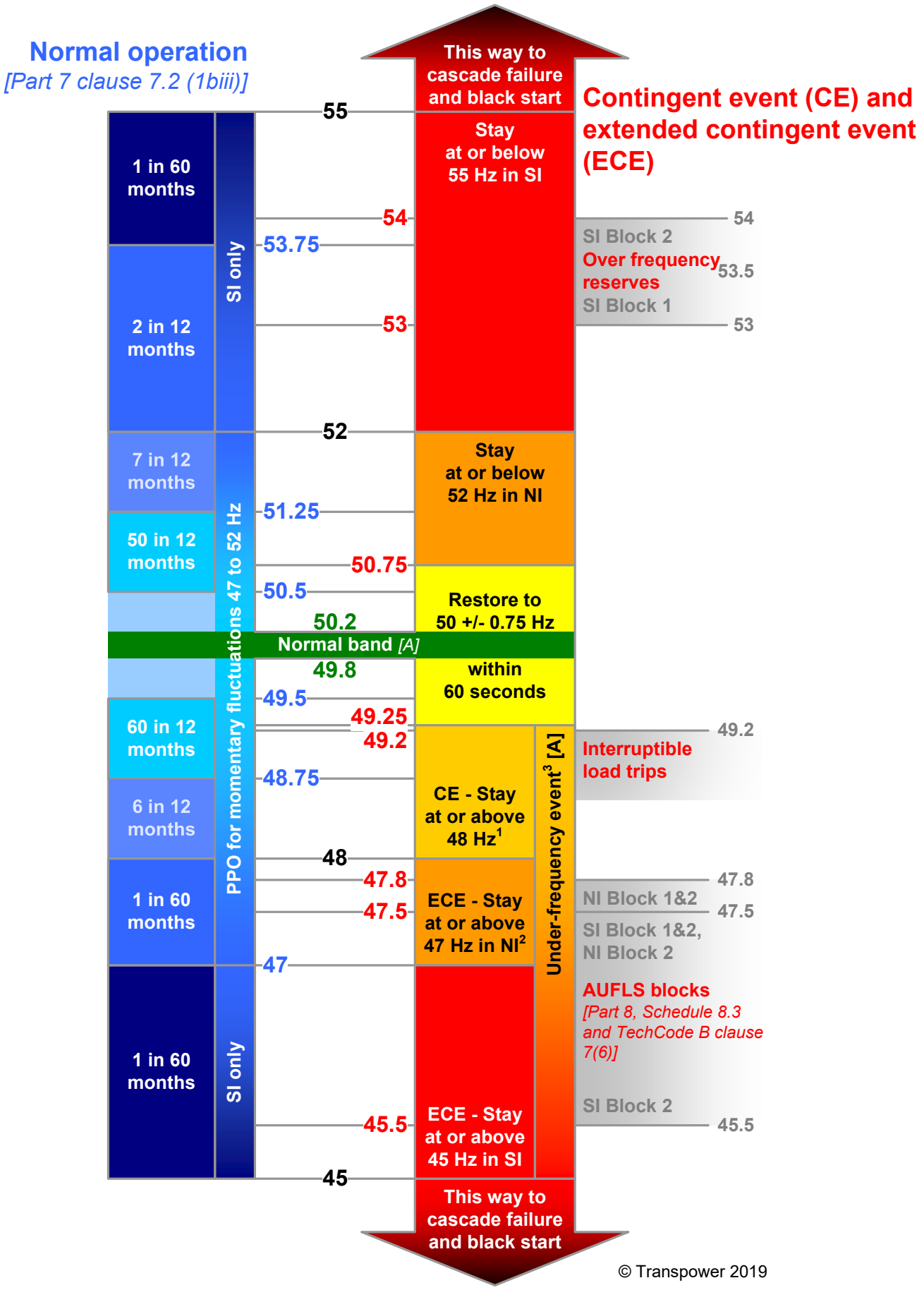
6 NI = North Island, SI = South Island

7 If loss of generation in excess of 60 MW over 60 seconds

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Frequency Management Barometer



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1 *Where there is a shortage of instantaneous reserve for a contingent event the SO will rely on the operation of AUFLS schemes or un-dispatched HVDC response, i.e. frequency can drop below 48 Hz*
2 *With limited time below 47.3 Hz*
3 *If lost generation > 60 MW over 60 seconds*
[ ] *The 'Code clause reference* NI = North Island, SI = South Island