

CPS Documentation Change Register

Refer to the changes registered below between formal Document Revisions

Date	Document Title	Rev	Section/Paragraph before change	Section/Paragraph after change
22 June 2022	CPS FTFR Specification	3	<p>Req 7 on page 34: Decelerate TMM to a predefined speed without operator action</p> <p>S &U: as per TMM OEM specifications</p> <p>S: OEM mean deceleration: 1.5ms⁻² to safe speed or as per TMM OEM requirements</p> <p>U: OEM (SANS 1589-3) mean deceleration: 1,95 ms⁻² to safe speed 3km/h, or as per TMM OEM requirements</p> <p>prevent runaway during slowdown intervention</p>	<p>Req 7 on page 34: Decelerate TMM to a predefined speed without operator action</p> <p>S&U: as per TMM OEM specifications</p> <p>ISO/TS 21815-2:2021 makes provision for four interventions in the CxD>>MachineCommand message to slow and/or stop the TMM. The interventions are described in Table 25 of ISO/TS 21815-2:2021. The OEM must provide information to the CxD supplier that specifies the deceleration and machine delay expected for each of these interventions. The deceleration and machine delays shall be determined under controlled conditions as specified in ISO 3450:2011 (for surface machines) and in SANS 1589-1:2022 (for underground machines). The CxD developer should be cognisant of the conditions under which these delays and decelerations are applicable and should make the necessary adjustments should machine braking performance depart from the specifications due to factors beyond</p>

				the TMM OEM's control (such as a decline road, overloaded machine, slippery road surface, etc.).
22 June 2022	CPS FTPR Specification	3	Req 14.2 on page 36: Record continuously Record functions continuously at 1Hz. S&U: Save data	Req 14.2 on page 36: Record continuously TMM to record and save information sent & received via MI at 1 Hz for 30s prior to an auto slow and stop incident for accident investigation purposes. S&U: Save data
22 June 2022	CPS FTPR Specification	3	Req 14.7 on page 37: Log keeping must be done on multiple independent storage devices S & U at least 2 fully independent storage devices used to record and store data (RAID)	Req 14.7 on page 37: Log keeping must be done on multiple independent storage devices S &U: at least 2 fully independent storage devices used to record and store data (for e.g. RAID or similar backup and data storage redundancy)