

RENESAS TECHNICAL UPDATE

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Product Category	MPU/MCU		Document No.	TN-RX*-A183A/E	Rev.	1.00
Title	Notes on and Corrections to Descriptions for the P/E Suspension of Flash Memory in RX65N Group and RX651 Group		Information Category	Technical Notification		
Applicable Product	RX65N Group, RX651 Group	Lot No.	Reference Document	RX65N Group, RX651 Group Flash Memory User's Manual: Hardware Interface Rev.2.00 (R01UH0602EJ0200)		
		All				

This document describes notes on P/E suspension and corrections to the flow chart of the P/E suspend command in RX65N Group, RX651 Group Flash Memory User's Manual: Hardware Interface Rev.2.00.

1. Note on Issuing Programming Command During Erasure Suspension

• Note

When a programming command is issued for the blocks not to be erased while an erasure operation is suspended, an illegal-command error that should not occur may occur.

When a programming command is issued for the blocks to be erased while an erasure operation is suspended, an illegal-command error that should occur may not occur.

• Measure

When having changed the value of the FOCI command start address register (FSADDR) while an erasure operation is suspended, restore the value saved before the P/E suspend command was issued to the FSADDR register before issuing the P/E resume command.

Programming to the blocks to be erased is prohibited while an erasure operation is suspended. Do not issue a programming command for the blocks to be erased while an erasure operation is suspended.

2. Corrections to the Flow Chart of the P/E Suspend Command

•Page 43 of 69

In Figure 6.9, Usage of the P/E Suspend Command, a processing flow never escapes from the loop for a checking procedure if the programming/erasure processing completed before checking the SUSRDY flag.

Therefore, a timeout processing and a breaking processing when the FRDY flag is 1 are to be added.

Also, the saving processing for the FSADDR register described in 1. Note on Issuing Programming Command During Erasure Suspension.

Before correction

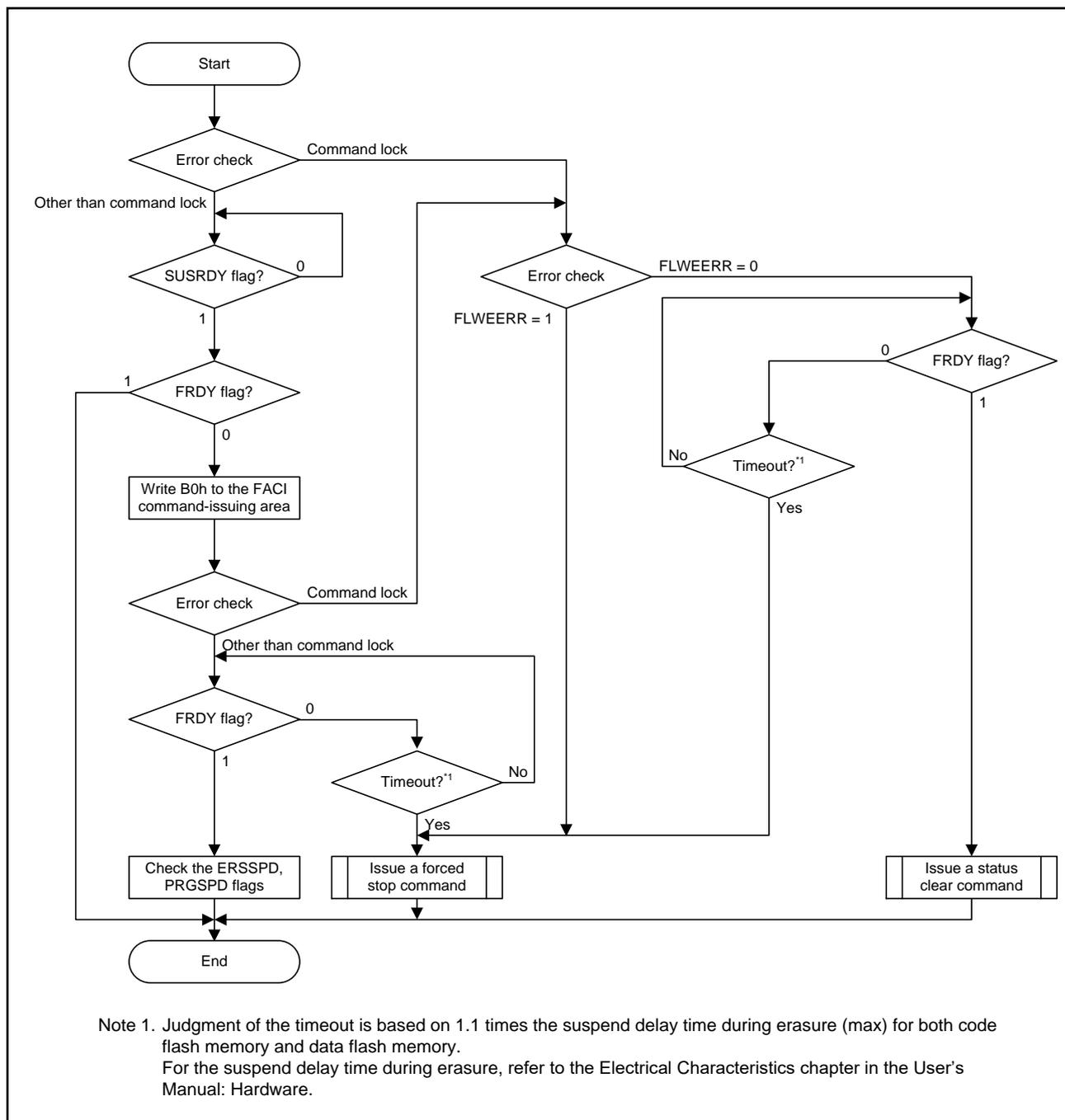


Figure 6.9 Usage of the P/E Suspend Command

After correction

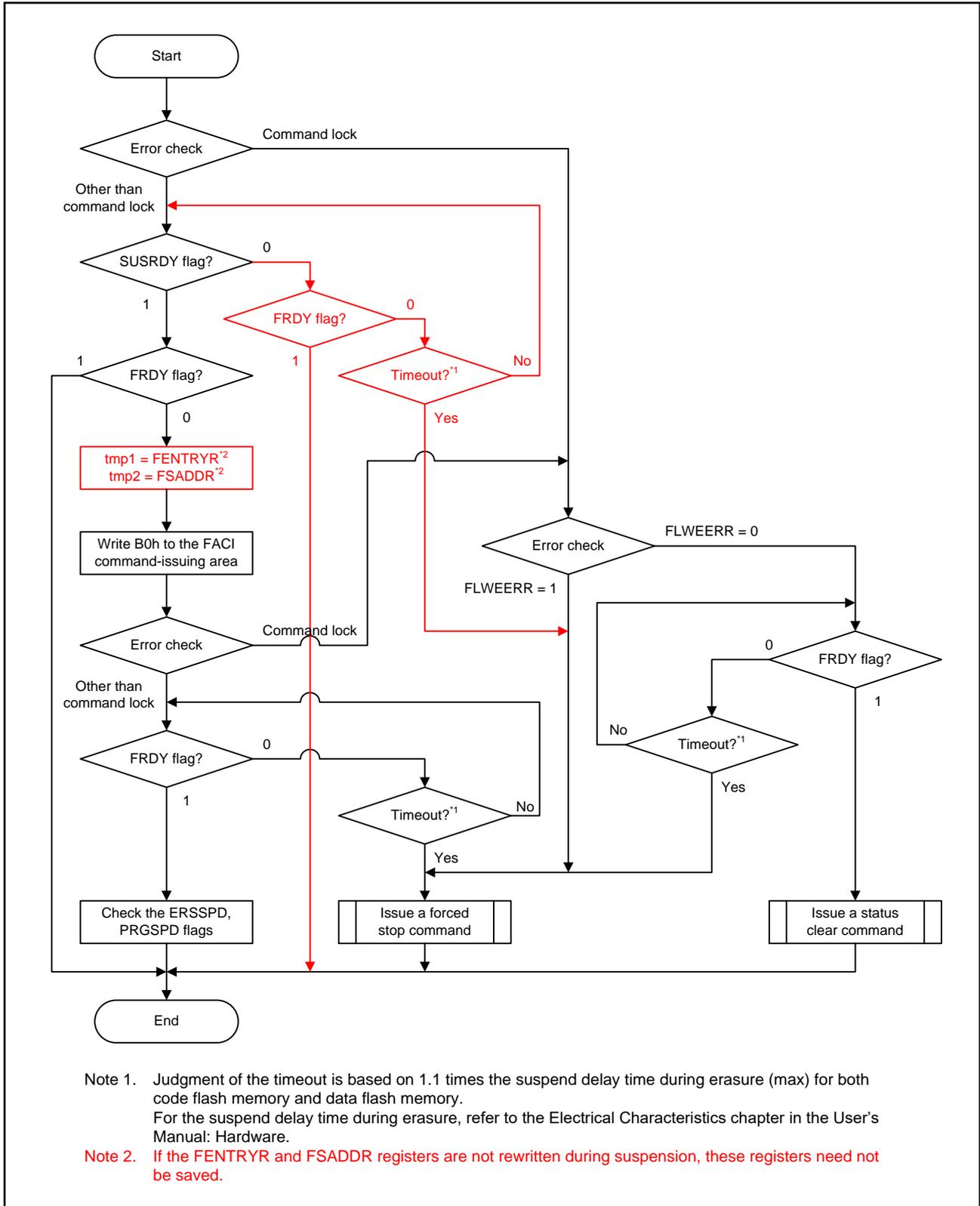


Figure 6.9 Usage of the P/E Suspend Command

• Page 47 of 69

The restoring process for the FSADDR register described in 1. Note on Issuing Programming Command During Erasure Suspension is added to Figure 6.13, Usage of the P/E Resume Command.

Before correction

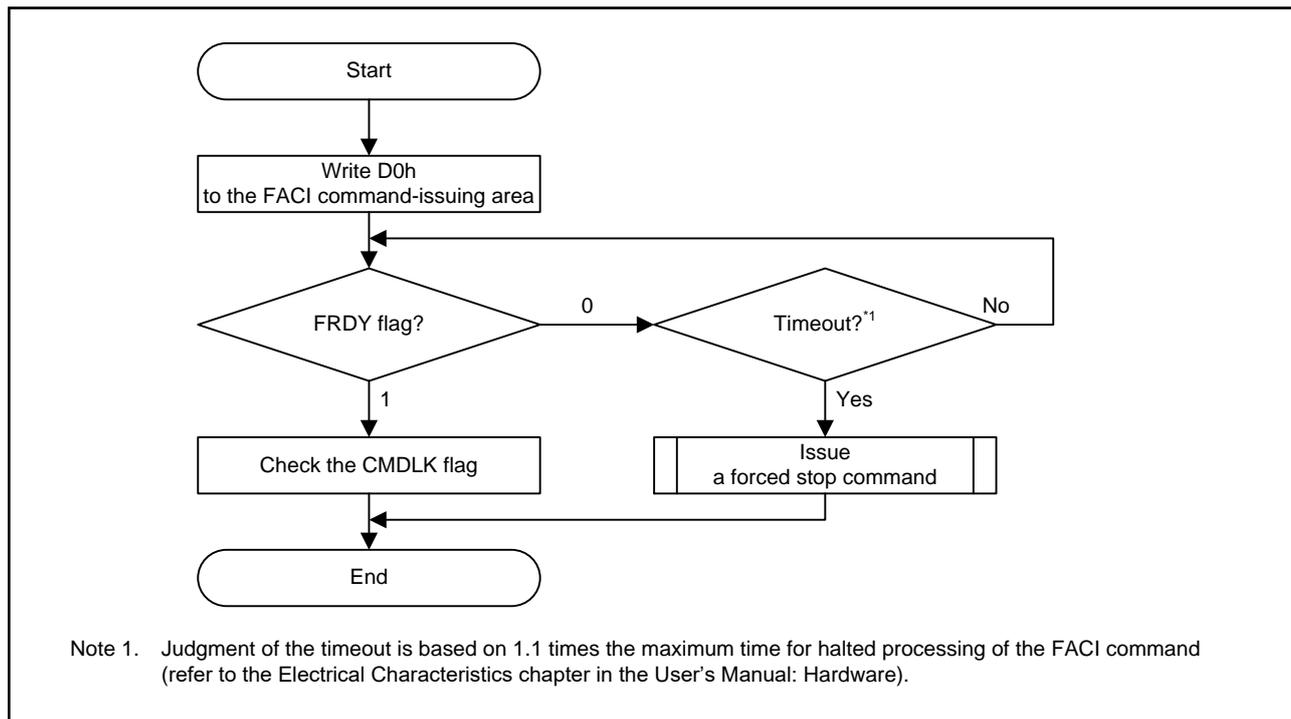


Figure 6.13 Usage of the P/E Resume Command

After correction

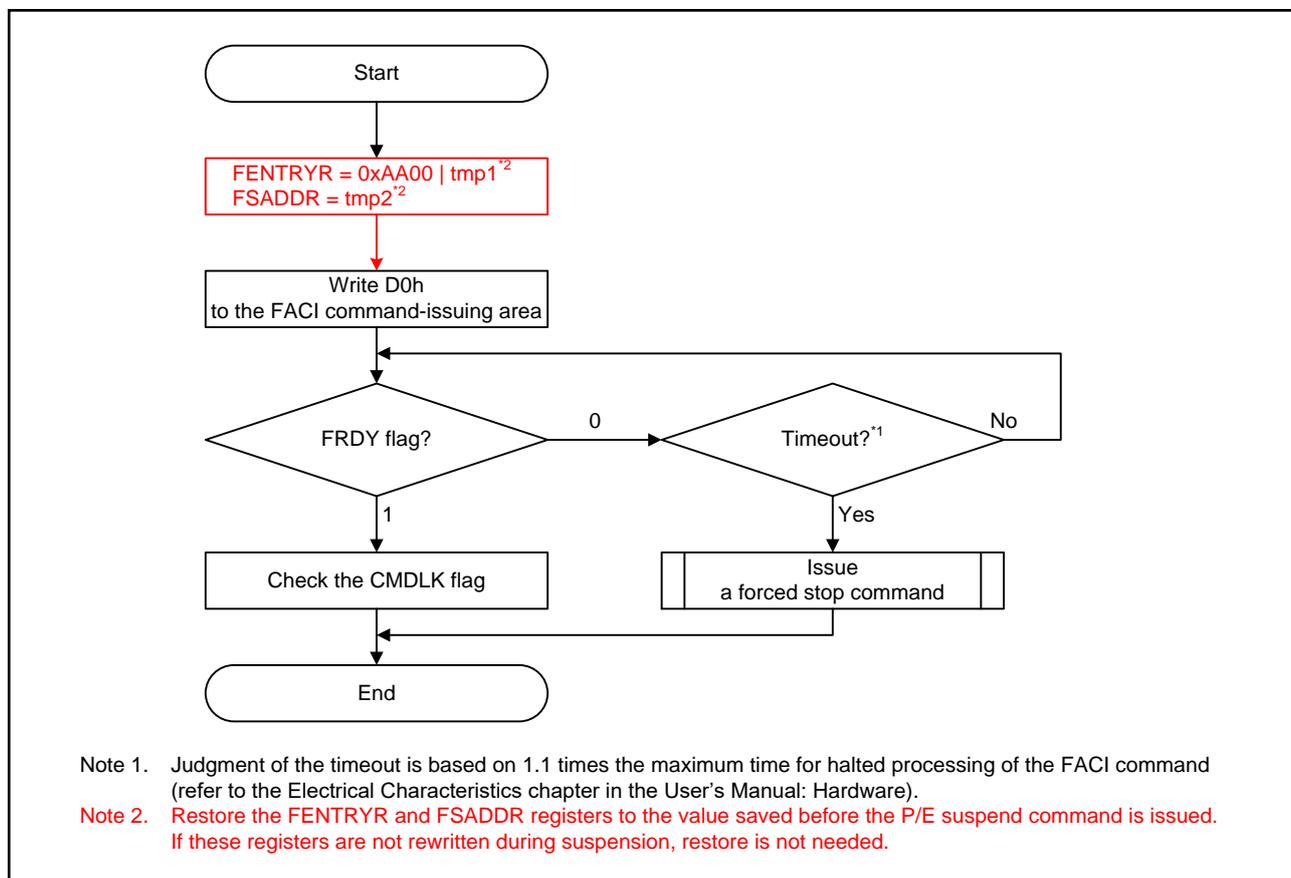


Figure 6.13 Usage of the P/E Resume Command

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