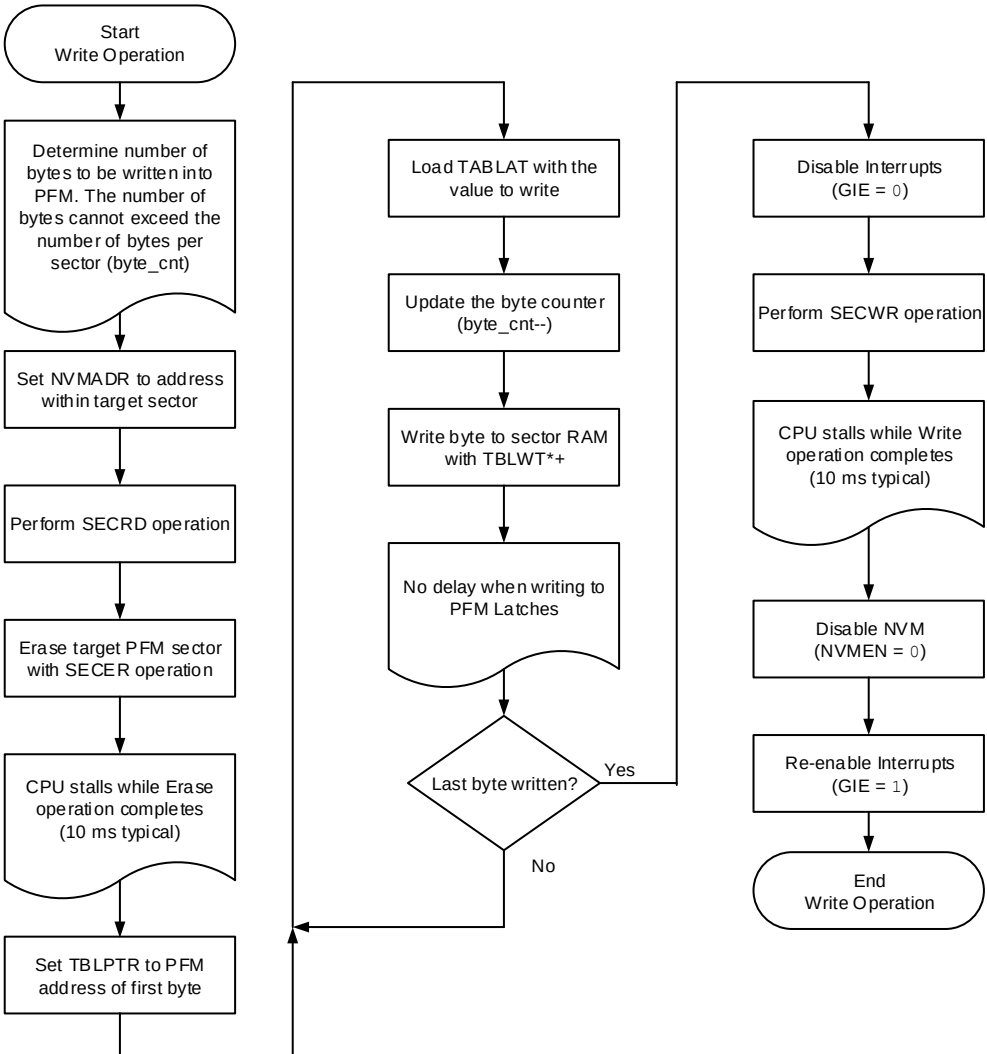
Start
Write Operation
Determine number of bytes to be written into PFM. The number of bytes cannot exceed the number of bytes per sector (byte_cnt)
Set NVMADR to address within target sector
Perform SECRD operation
Erase target PFM sector with SECER operation
CPU stalls while Erase operation completes (10 ms typical)
Set TBLPTR to PFM address of first byte
Load TABLAT with the value to write
Update the byte counter (byte_cnt--)
Write byte to sector RAM with TBLWT*+
No delay when writing to PFM Latches
Last byte written?
Yes
No
Disable Interrupts (GIE = 0)
Perform SECWR operation
CPU stalls while Write operation completes (10 ms typical)
Disable NVM (NVMEN = 0)
Re-enable Interrupts (GIE = 1)
End
Write Operation