## Figure for TPS timer Comment I-72

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## New figure for TPS timer reset

- We would need the equivalent of figure 145-17 (145-18 is for dual-sig PDs which we don't have).
- The feature is called TPS instead of MPS, the timer is already defined in 189.4.4.3 (ttpsdo\_timer), as below:
  - ttpsdo\_timer A timer used to monitor the dropout of the TPS. See 189.4.10.1 and TTPSDO in Table 189–5.
  - Also, instead of pwr\_app\_pri + pwr\_app\_sec in Figure 145-17, we just have one variable: mpi\_powered (also defined in 189.4.4.3)
  - Mps\_valid is replaced by a newly defined variable

## New Figure 189-5a (after 189-5)

- Add figure to 189.4.4.3 based on figure 145-17 with the following changes:
  - tmpdo\_timer becomes ttpsdo\_timer in all places
  - pwr\_app\_pri + pwr\_app\_sec becomes mpi\_powered at entry and exit to IDLE\_MPS
  - State names become XXX\_TPS
- Add new variable tps\_valid to 189.4.4.2

tps\_valid

A variable used to indicate the presence of at least one MPD requesting power

TRUE: IMPSE is in the range of Ihold

FALSE: IMPSE is less than or equal to IHold min

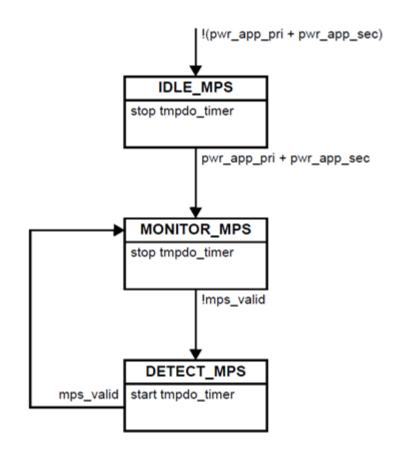


Figure 145–17—PSE MPS monitor state diagram for single-signature PDs or 2-pair operation