



The main director of the program is the PeakDetectorISR. This is run whenever the Frequency Analyser detects a peak in the power signal. The first action is to start the TimeConstraintMonitor timer. This timer will only start if it is not currently running. It will measure the time it takes to turn off the first load when unstable conditions are met. The ISR will release a semaphore allowing the PeakDetectorHandlerTask to run. It will also move the period reading to the PeakDetectorPeriodQ.

