Stage	Value(s)	Description
Patch Application	9	The loaded Back End software sets the status bits to this value prior to applying any software patches. This allows the maintainer to determine if the Back End hangs while installing patches.
Startup	8	The loaded and patched Back End software sets the status bits to this value prior to executing its module initialization routines. This allows the maintainer to determine if the Back End hangs during its main initialization process.
Idle	7,6	The Back End software periodically toggles between these two values, at a TBD rate, while running when a Science Run is not being performed. This allows a maintainer to determine that the instrument is active, but not performing any science operations.
Science	5,4	The Back End software periodically toggles the status bits between these two values, at a TBD rate, when executing a Science Run. This allows a maintainer to determine that the instrument is executing a Science Run.
WD Idle	3,2	If the Back End recovers after a Watchdog Reset, the software uses these values when it is in an “Idle” state. This allows a maintainer to determine that a Watchdog Reset occurred.
WD Science	1,0	If the Back End recovers after a Watchdog Reset, the software uses these values when it is performing a “Science Run.” This allows a maintainer to determine that a Watchdog Reset occurred.