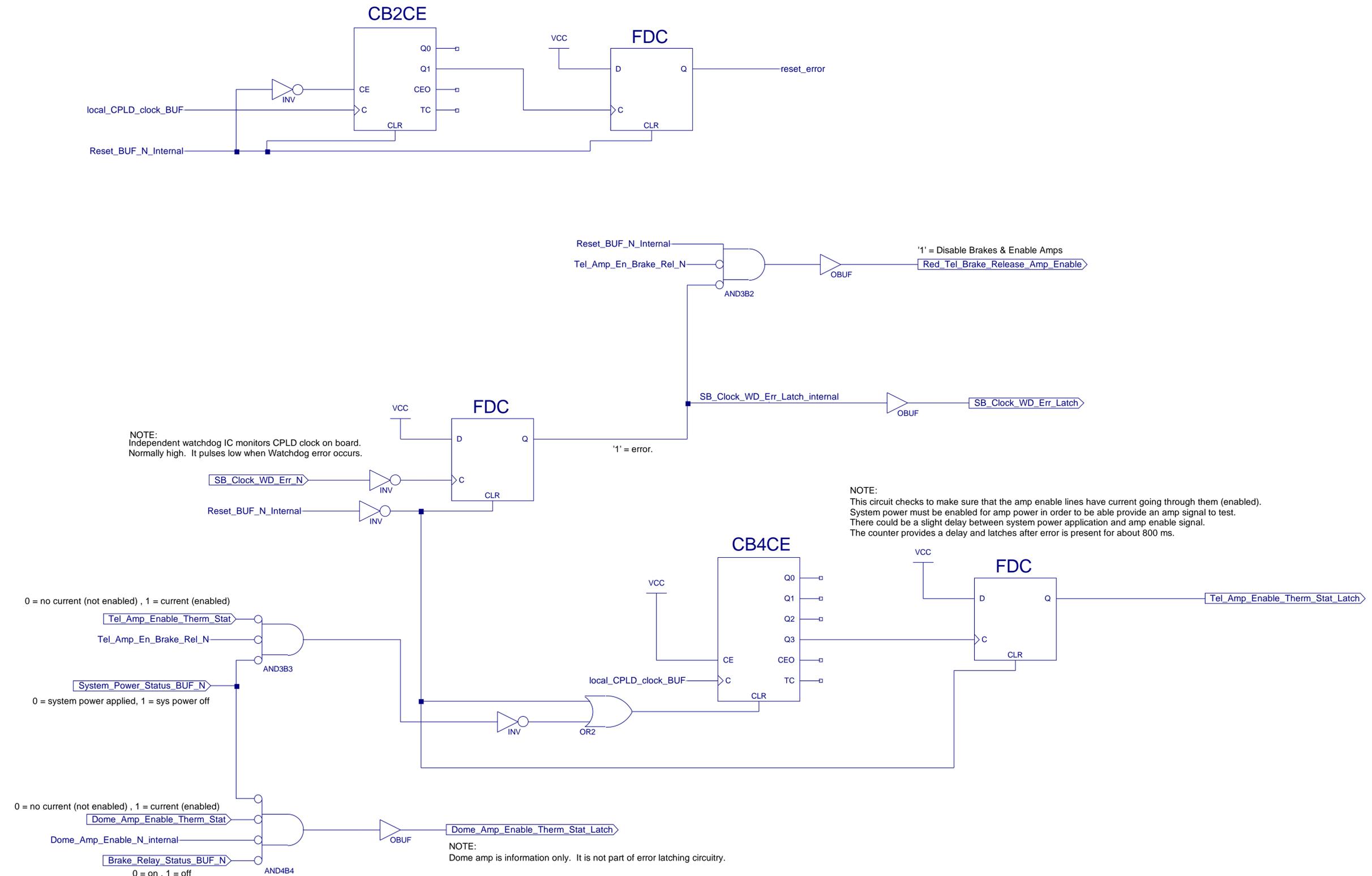


REV	DESCRIPTION	DATE	BY
-toB	Original by Fred Keske	pre 2008	FK
C	Converted from Protel to ISE & modified.	4/16/08	EAW



NOTE:
Independent watchdog IC monitors CPLD clock on board.
Normally high. It pulses low when Watchdog error occurs.

NOTE:
This circuit checks to make sure that the amp enable lines have current going through them (enabled).
System power must be enabled for amp power in order to be able provide an amp signal to test.
There could be a slight delay between system power application and amp enable signal.
The counter provides a delay and latches after error is present for about 800 ms.

NOTE:
Dome amp is information only. It is not part of error latching circuitry.

This 4 input AND gate with inverted inputs is really asking:
 1) Is system power on?
 2) AND is the amplifier commanded to be enabled?
 3) AND is the brake relay on?
 4) AND is there no current in the enable line (not pulled down = disabled)
 This means the amps should be enabled, but no current is detected.
 That's a problem. Thermal fuse could be blown or wire disconnected.