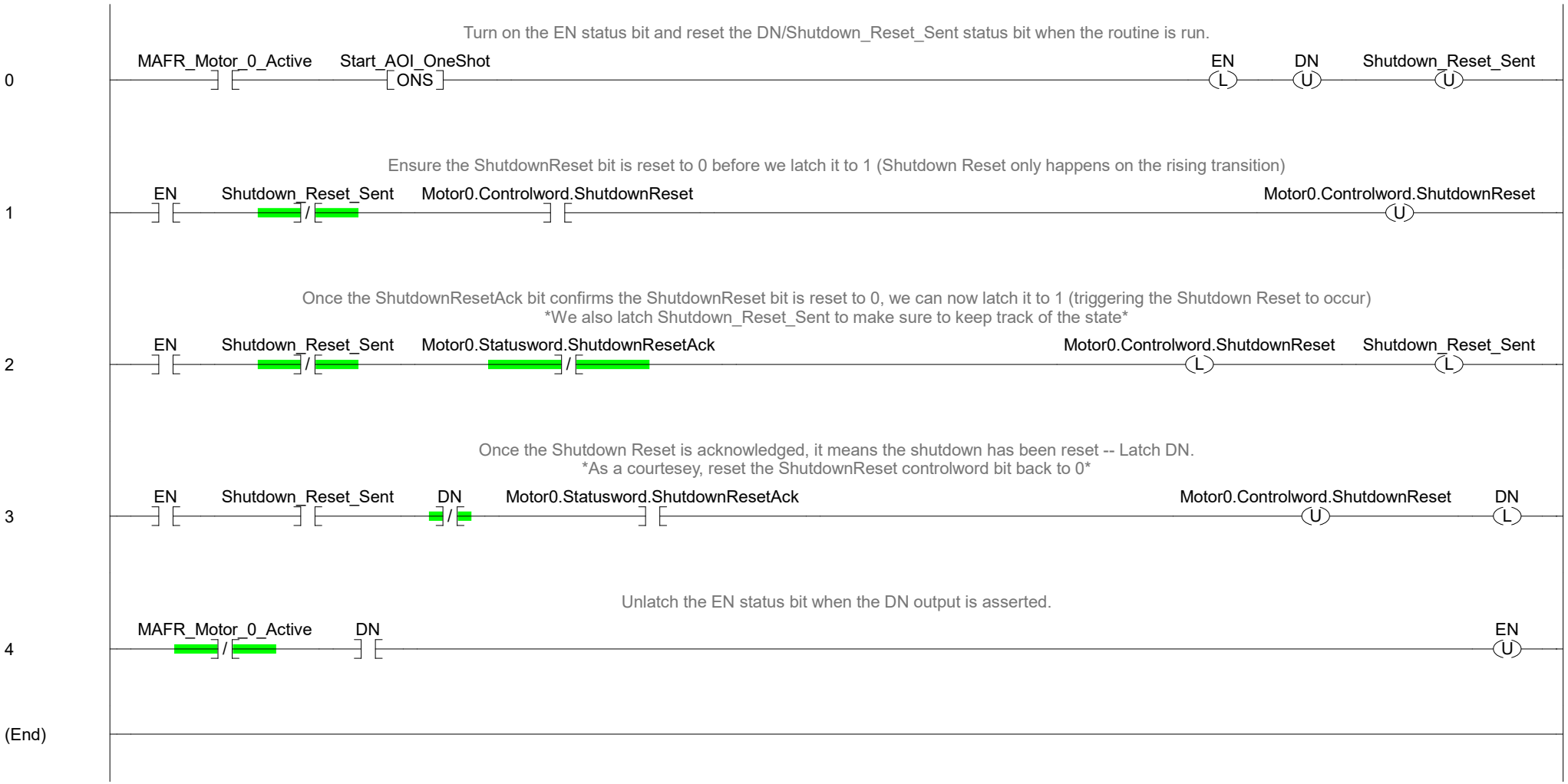
Turn on the EN status bit and reset the DN/Shutdown_Reset_Sent status bit when the routine is run.
0
MAFR_Motor_0_Active
Start_AOI_OneShot
ONS
EN
L
DN
U
Shutdown_Reset_Sent
U
Ensure the ShutdownReset bit is reset to 0 before we latch it to 1 (Shutdown Reset only happens on the rising transition)
1
EN
Shutdown_Reset_Sent
Motor0.Controlword.ShutdownReset
Motor0.Controlword.ShutdownReset
U
Once the ShutdownResetAck bit confirms the ShutdownReset bit is reset to 0, we can now latch it to 1 (triggering the Shutdown Reset to occur)
We also latch Shutdown_Reset_Sent to make sure to keep track of the state
2
EN
Shutdown_Reset_Sent
Motor0.Statusword.ShutdownResetAck
Motor0.Controlword.ShutdownReset
L
Shutdown_Reset_Sent
L
Once the Shutdown Reset is acknowledged, it means the shutdown has been reset -- Latch DN.
As a courtesey, reset the ShutdownReset controlword bit back to 0
3
EN
Shutdown_Reset_Sent
DN
Motor0.Statusword.ShutdownResetAck
Motor0.Controlword.ShutdownReset
U
DN
L
Unlatch the EN status bit when the DN output is asserted.
4
MAFR_Motor_0_Active
DN
EN
U
(End)