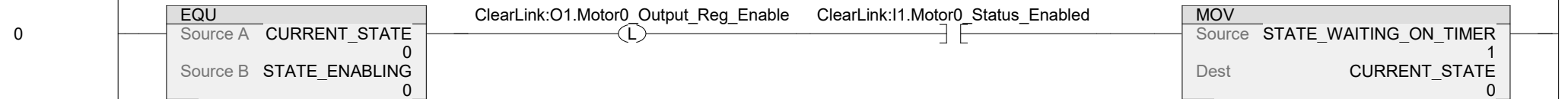

Program Name: SD_Velocity_Move (One Axis)
Program Description: This program commands a ClearPath-SD motor to move back and forth at a specified velocity.
Motor Required: One ClearPath-SD (Step & Direction) motor connected to ClearLink at connector M-0.
Software Used: Studio 5000 Logix Designer (Version 32.02.00 was used to create this routine).
Controller Used: Allen-Bradley CompactLogix Controller / Model #: 1769-L16ER-BB1B was used to create this example.

BEFORE RUNNING THIS EXAMPLE, your ClearPath-SD motor must first be configured in MSP (ClearPath Motor Setup Program). See the ClearLink Software Object Data Reference for motor setup and configuration instructions: https://www.teknic.com/files/downloads/clearlink_ethernet-ip_object_reference.pdf.

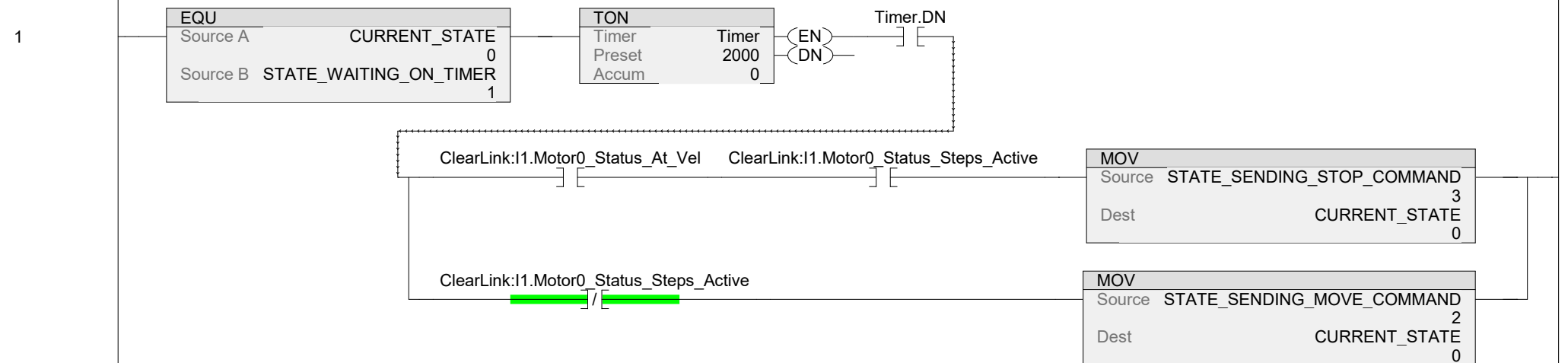
IMPORTANT FAILURE TO PROPERLY TUNE AND CONFIGURE YOUR CLEARPATH MOTOR BEFORE USE MAY RESULT IN UNEXPECTED MOTION, OR NO MOTION.

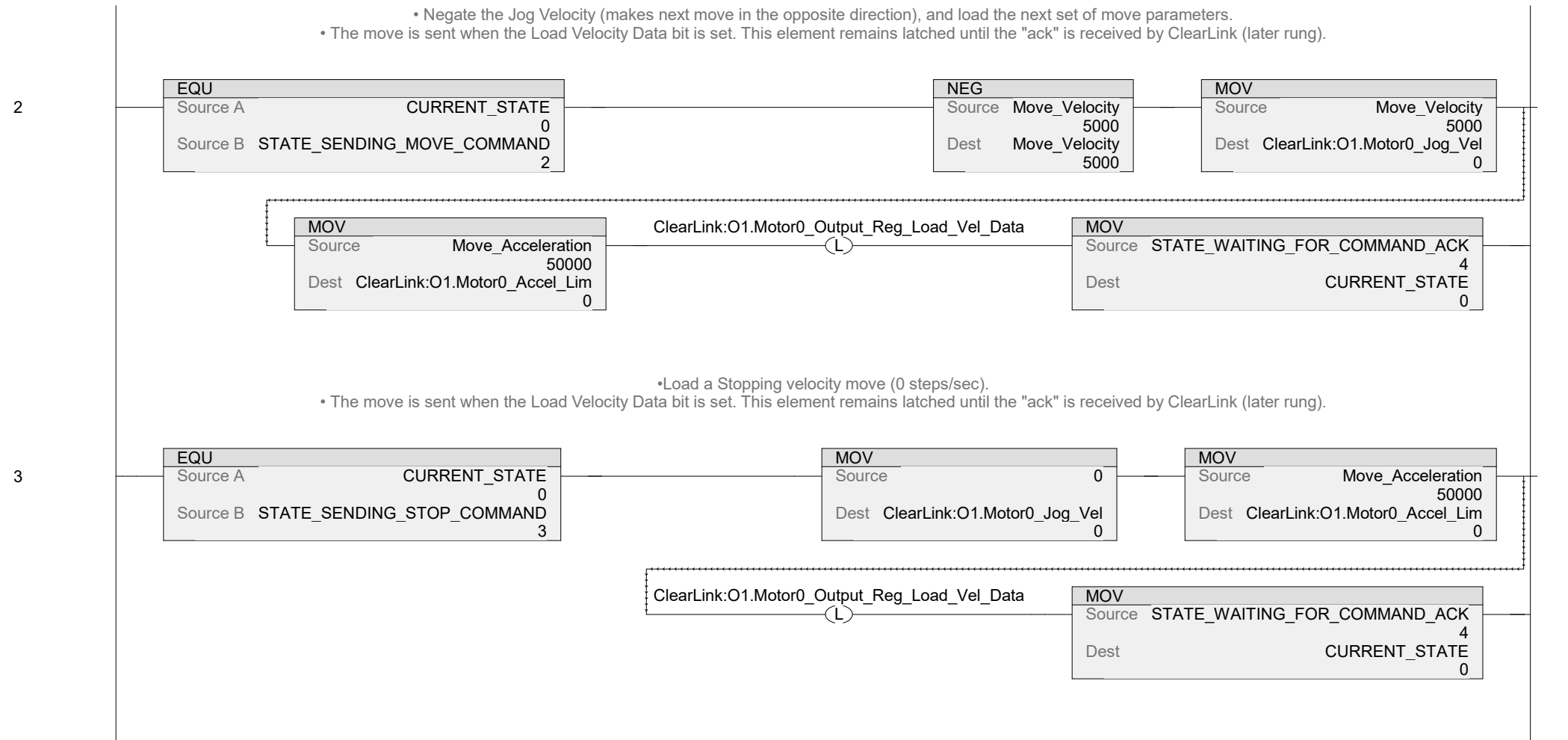
*****BEGIN RUNG COMMENTS*****

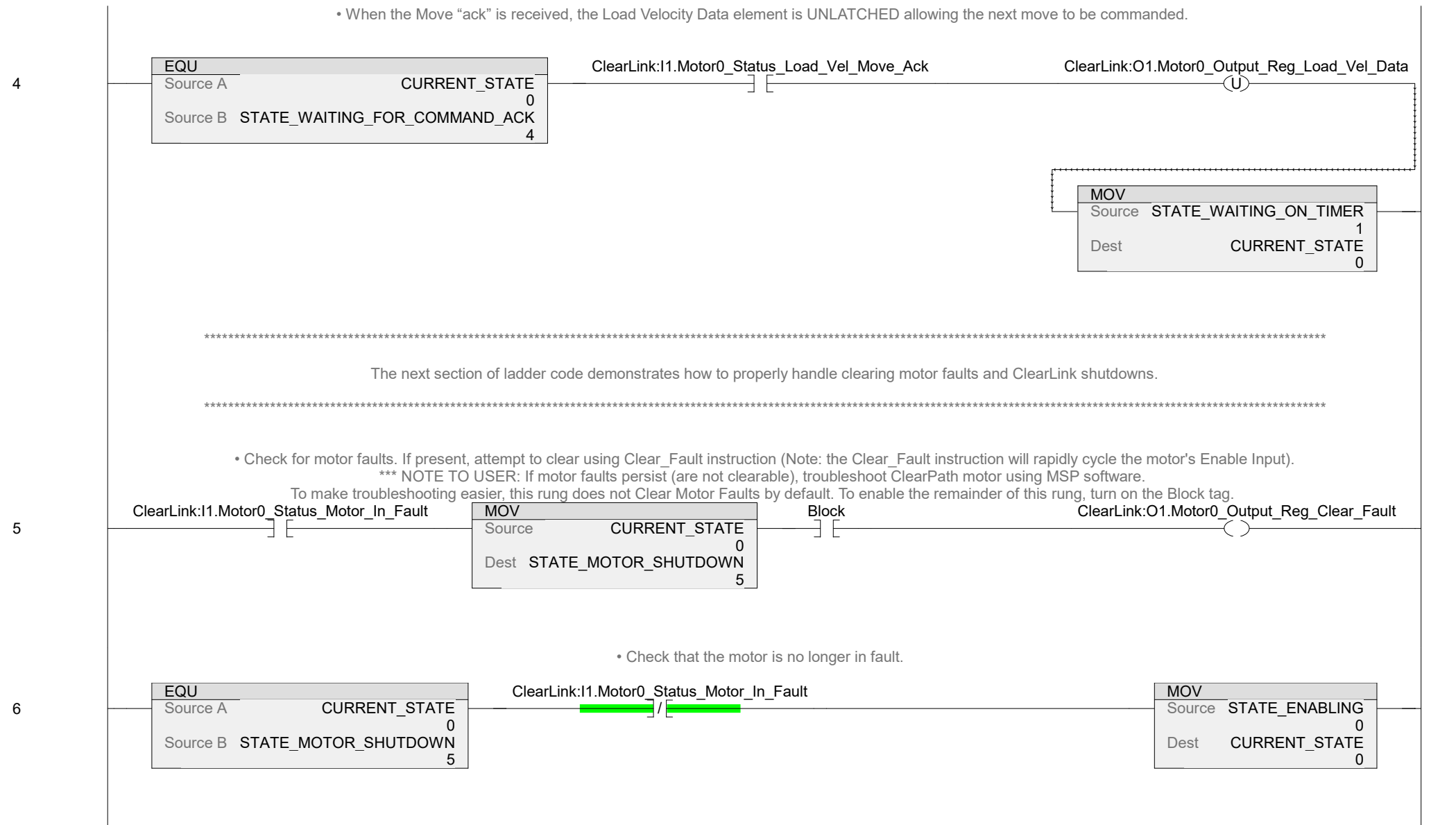
- Enable Motor 0. CAUTION: Enabled motors can output torque and move in response to motion commands.

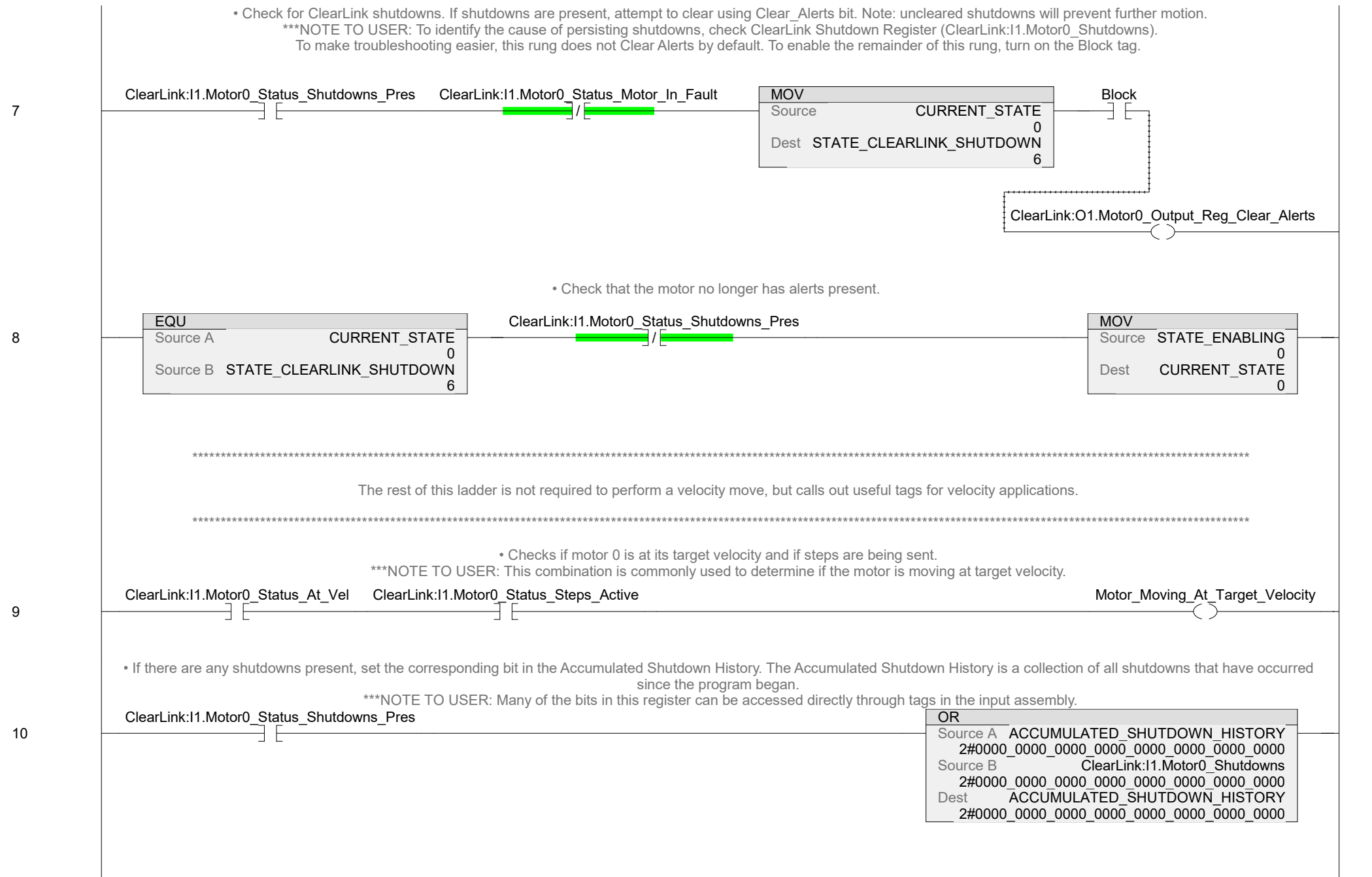


- Wait for the 1000ms timer to finish and determine what move to send. If the motor is Steps Active and At Velocity (moving at target speed) begin stopping. If the motor is not Steps Active (stopped) begin the next velocity move.









• Gets the motor's status register and moves it into a local tag where it is easily accessible. This register shows the current status of the motor.
***NOTE TO USER: Many of the bits in this register can be accessed directly through tags in the input assembly.

MOV	
Source	ClearLink:I1.Motor0_Status
	2#0000_0000_0000_0000_0000_0000_0000
Dest	CURRENT_MOTOR_STATUS
	2#0000 0000 0000 0000 0000 0000 0000 0000

11

(End)