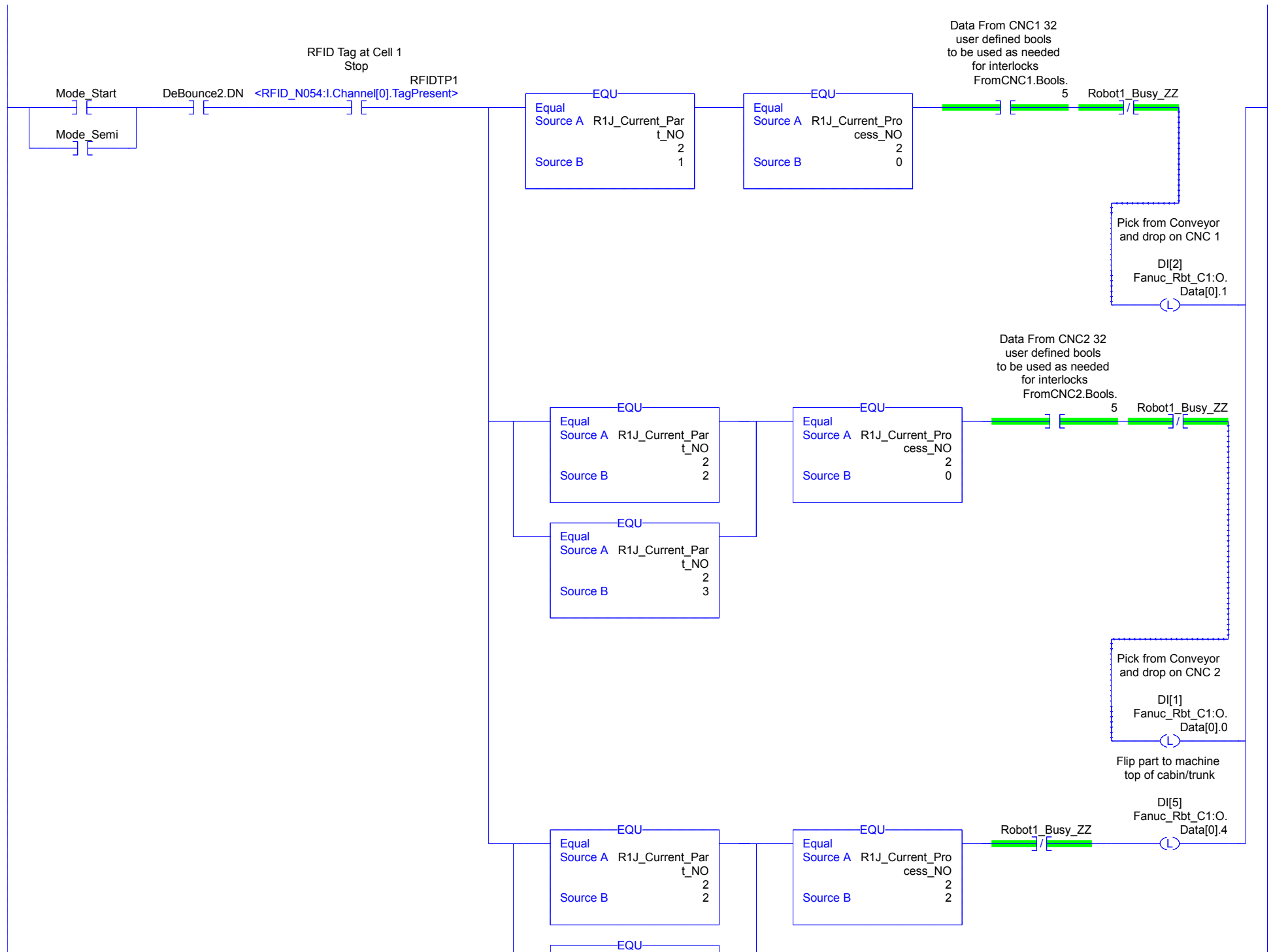
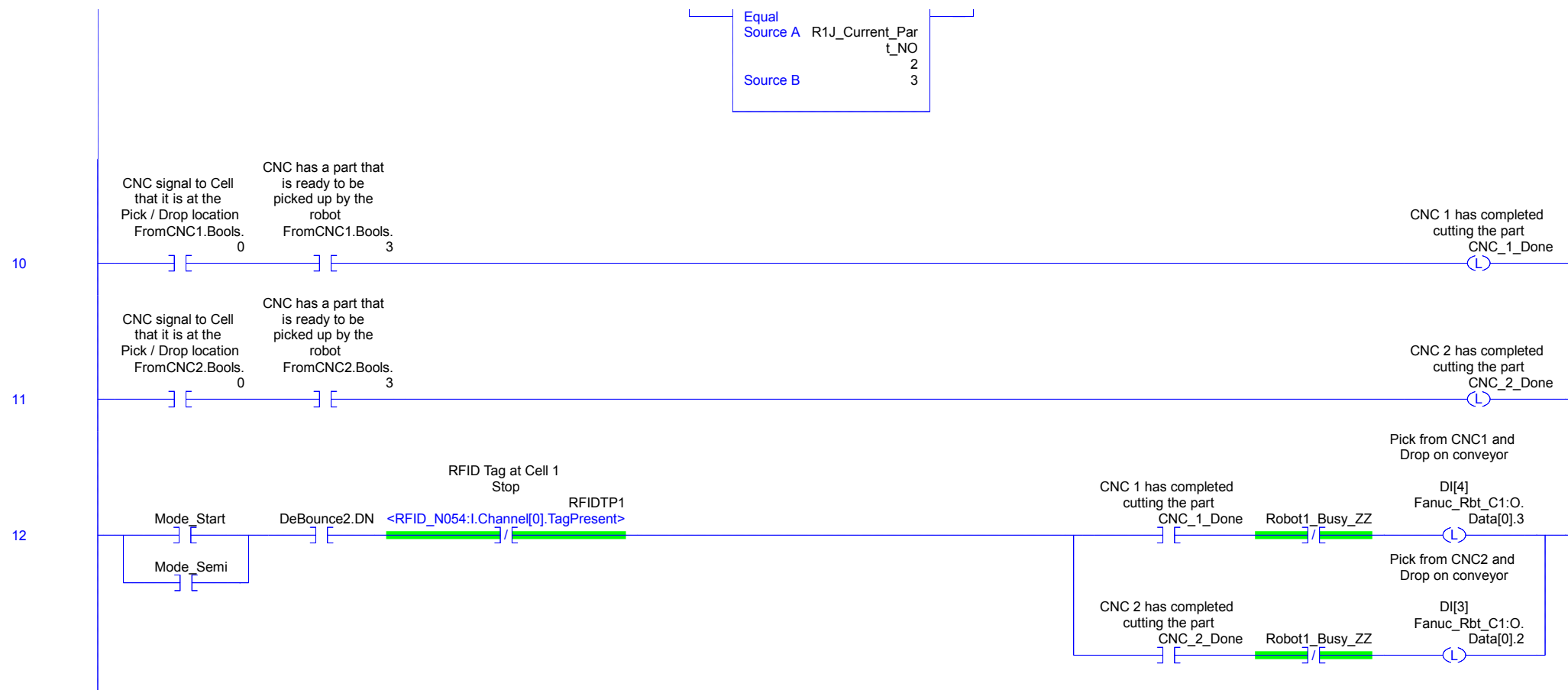




9





October 11, 2016

This rung evaluates all possible conditions for retraction of the Cell 1 Robot Stop. The conditions are:

If the part has been dropped to the conveyor (has written process number and checked), or both CNC1 and CNC2 running (both busy now), or the pallet is empty and both CNCs are not done, or the process is not 0, or CNC2 is not idle and Part A is in cell, or CNC1 is not idle and part B or C is in cell.

November 1, 2016

Added DeBounce2 timer done condition to ensure PartEntering tag is unlatched. Changed tags to match RFID_1_JW.

November 5, 2016

Fixed Error: RFID 3 tags were being used instead of RFID 1

November 9, 2016

Added Robot2_DroppedP1 and P2 FALSE conditions in front of some rungs to avoid releasing a pallet early while the robot is dropping a part from a CNC to the conveyor.

Flipping Part
Program is Running
DO[16]
Fanuc_Rbt_C1:I.
Data[0].15

Mode_Start

DeBounce2.DN

Mode_Semi

Pick from CNC2 and
Drop on Conveyor
Program running
DO[5]
Fanuc_Rbt_C1:I.
Data[0].4

Pick from CNC1 and
Drop on Conveyor
Program running
DO[6]
Fanuc_Rbt_C1:I.
Data[0].5

RFID Tag at Cell 1
Stop

RFIDTP1

CNC 1 has completed
cutting the part
CNC_1_Done

CNC 2 has completed
cutting the part
CNC_2_Done

C1RobotStopRetr
actConditions

Extend Stop
C1RobotStop.Ext

Retract Stop
C1RobotStop.Ret

Part in transit
from hold back to
robot stop
Cell_1.PartEnte
ring

R1J_Read_Finish
ed

NEQ
Not Equal
Source A R1J_Current_Par
t_NO
2
Source B 1

NEQ
Not Equal
Source A R1J_Current_Par
t_NO
2
Source B 2

NEQ
Not Equal
Source A R1J_Current_Par
t_NO
2
Source B 3

EQU
Equal
Source A R1J_Current_Par
t_NO
2
Source B 1

NEQ
Not Equal
Source A R1J_Current_Pro
cess_NO
2
Source B 0

NEQ
Not Equal
Source A R1J_Current_Pro
cess_NO
2
Source B 2

EQU
Equal
Source A R1J_Current_Par
t_NO
2
Source B 2

NEQ
Not Equal
Source A R1J_Current_Pro
cess_NO
2
Source B 0

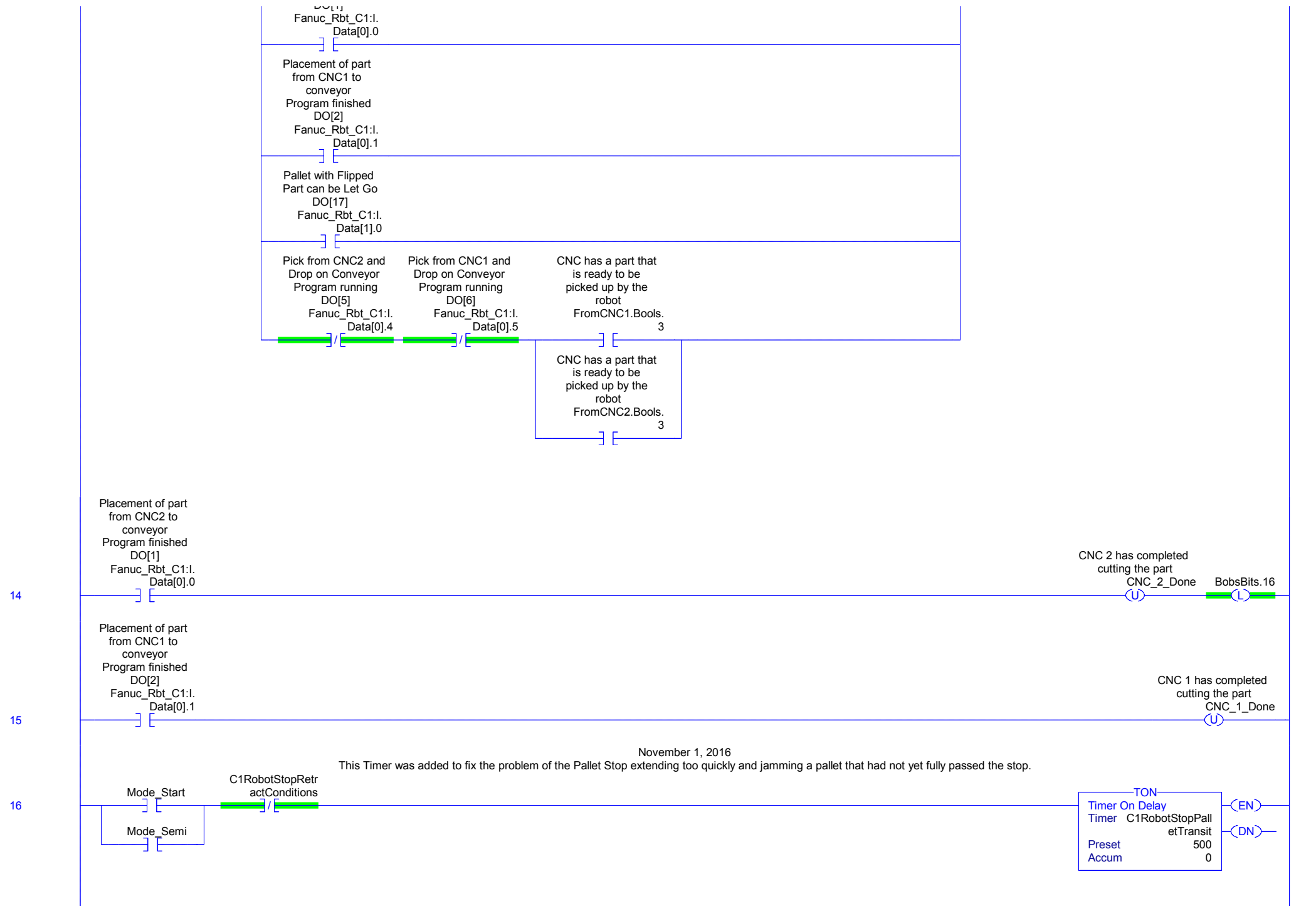
NEQ
Not Equal
Source A R1J_Current_Pro
cess_NO
2
Source B 2

EQU
Equal
Source A R1J_Current_Par
t_NO
2
Source B 3

NEQ
Not Equal
Source A R1J_Current_Pro
cess_NO
2
Source B 0

NEQ
Not Equal
Source A R1J_Current_Pro
cess_NO
2
Source B 2

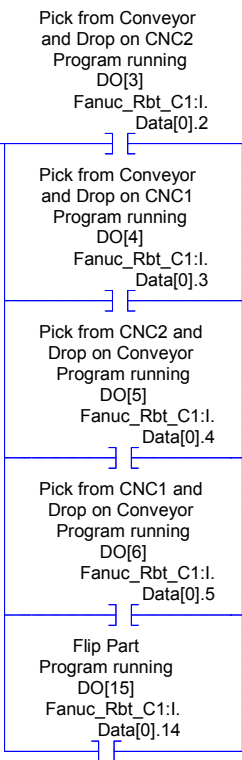
Placement of part
from CNC2 to
conveyor
Program finished
NO11





19

Robot1_Busy_ZZ



(End)