Updating ControlNet on FGS or ESD nodes

When changing the IO configuration on the IO racks for FGS and ESD redundant nodes, you will have to update something called RSNetWorx for ControlNet before the RSLogix configuration changes will function. This is a configuration tool that configures the communication cards for control net nodes. To avoid unintentional shutdowns, this must done in a very specific order due to the necessity of placing the controllers in program mode while downloading the configuration. This procedure explains how to do this in a controlled manner while your plant continues running.

1. Read through the manual "ControlNet Network Configuration", find chapter 3 "Reschedule a ControlNet Network that has previously been scheduled" which applies for our case.
2. IMPORTANT!! Coordinate with operations before proceeding, if you do something wrong here you could bring down both FGSS control nodes at the same time.
3. Check which controller is in Primary Mode and which is in standby mode on the Node Status screen.
4. Open the correct RSNetworx project on \\PJ1-BACKUPDISK\Network\Networx files on the engineering station 192.168.4.12.
5. Open your RsLogix projects for A and B Nodes. Go online, see that both controllers are in run mode.
6. Go online in RsNetWorx on the -SECONDARY- Controller. The program will now read through the online status and you'll see a "+" on new modules, or other symbols on changed modules.
7. Click "Save".
8. IMPORTANT!! Make sure you choose "Merge Changes"
9. IMPORTANT!! You will now get a popup screen saying it could not complete because a controller on node X slot Y, is in remote run, you have the option of choosing "change mode", "retry" and "skip". MAKE SURE THE CONTROLLER SPECIFIED IS THE SECONDARY CONTROLLER.
10. In RsLogix, set the secondary controller in "program mode". This PLC is no longer controlling anything, the primary controller is now the only controller on your system.
11. In RSNetWorx, click Retry. It will now load the changes to the secondary controller.
12. IMPORTANT!! Now the popup screen will appear once again, but it will now be pointing to the PRIMARY controller. Do not click anything yet!
13. In RsLogix set the secondary controller to Run. Check that the hardware config for control net is now without faults.
14. On the Node Status screen on the HMI, change the Primary controller to the one that has now been configured.
15. Go back to RsNetWorx, make sure that the specified Node X Slot Y controller is now in "Secondary" on the HMI.
16. Go to RsLogix for the new secondary controller, set it to program mode.
17. Go to RsNetWorx, click Retry to load the changes to the second controller. It will now spend some time downloading, then reading back the status of the controlnet. Wait for it to complete.
18. Go to RsLogix, set the secondary controller in Run mode. Check hardware configuration to see that the changed modules are working.

19. Go to HMI Nodes Status Screen, enable switching.
20. Good job!