

Names: Daniel Powers Connor White Patrick Curry

Instructions: When you are prepared to present the function of your station, ask the instructor to review this checklist with your group. When all conditions have been satisfied and checked off, you will submit a **digital copy of this sheet with all blanks filled in** as well as your ladder logic as a PDF to the **Station Function DropBox**. Note that the station function must also include the safety features/redundancies mentioned in the provided checklist.

- ☐ **System connected correctly** – powered on with air compressor attached and ethernet connected. Be sure there are no irregular red lights on your station, and if your station has an emergency stop button, be sure it deactivated (pulled outwards).
- ☐ **Ladder logic downloaded successfully, and monitoring mode activated** – the station will not allow you to enter monitoring mode if there are issues. If any errors appear, there will be a green arrow to direct you to the location of the issue.
- ☐ **Name of your station written here:** MPS D Sorting Station.
- ☐ **Meaningful startup/stop controls using the front of the station** – please include any button combinations to start and stop your program in the space provided.
 1. **Start Condition:** Start button is pressed
 2. **Stop Condition:** Stop button or safety features are triggered.
- ☐ **The system performs basic processes as expected with little to no issues (assuming no interference or unforeseen circumstances occur).**
- ☐ **Three safety features/redundancies explained (include rung/network #):**
 1. Chute is at capacity -> turn off
 2. Arms fail to reset -> turn off
 3. Timer to ensure conveyor cannot be overloaded with items