# In Brief

This solution will use a PLC interface to inform station assembly employees what parts they need, per chassis, to complete the expected chassis at that station. The system uses timers and lights to guide the employee through the assembly process. The solution should mitigate nearly $500,000 in scrap loss.

# Use Case

1. **Employee** *receives* **chassis**.
2. **Employee** *scans* **barcode** printed on **chassis**.
3. **Barcode** is *compared* to **Database** **entries**.
4. Is there a match?
   1. True - Lights are triggered for the relevant entry. Proceed to Step 5.
   2. False- Alternative Case: **Error** *indicated*. No lights, flashing lights, etc. Return to Step 1.
5. **Employee** *retrieves* relevant **picks** from **buckets**.
   1. Adding each piece, in order, one at a time.
6. **Employee** *completes***transaction** and **passes** the **chassis** to the next station.
   1. By hand.
   2. By conveyer.