Lockheed Martin Aeronautics Company is working to ready their processes and facilities for full rate production of F-35. One of the key areas of improvement has been identified as Material Handling Operations. Parts can become damaged in the current process of material flow throughout the Fort Worth facility. Shadowboxing is being used to decrease the amount of scrap, repair, and rework (SRR). The previous process to make shadowboxes was having a production worker cut shadowboxes by hand. With the decision to move to an automated solution, a new system needs to be implemented and controlled.

**RESULTS**

Design decisions of the request system were done by SMARTER analysis. ROC were calculated, and attributes weighed by criteria. Access and Tableau will be used for the request system and metric reporting. Foam inventory was categorized by breaking down color, height, width, length, and quantity. Final layout needs a 4’ step ladder to accommodate the height of the stacks and range of motion. CNC machine has software that is compatible with internal 3D CAD model database files, and has been tested to ensure functionality.

**CONCLUSION**

Access database system will be used for handling requests. Users will email a resource account to get access to the front end database. This front end will link to the main database and allow for querying and inputting of requests. Tableau is linked to the main database and generates reports automatically for cycle time and number of requests in each stage of the process. Facilities Planning is currently working to install utilities needs for CNC machine to operate.