

# Jason Anderson

## Field Engineering Director

### SQA Services 2014 - Present

- 9 years providing Clients with project based technical solutions
- Supply chain and manufacturing specialist
- Extensive background with special special processes, gap assessments, assessments, auditing, consulting, consulting, inspection and metrology



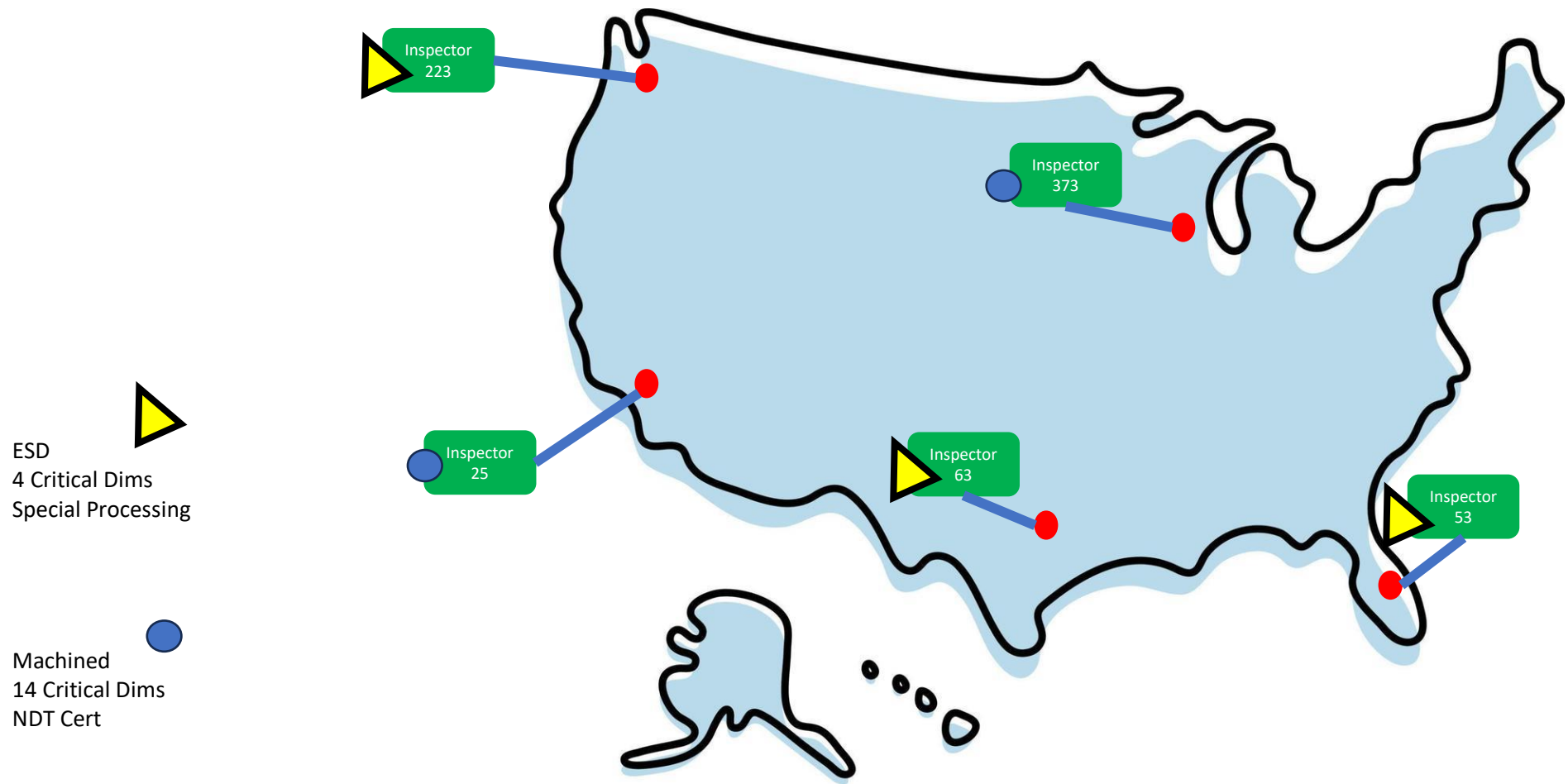
Disruptive Technologies in Quality. Advancing the  
Digital Transformation Journey with quality... .

... .putting technology to work in the field...

.... being present in the now, looking back at the trail,  
and defining the horizon

# PROBLEM STATEMENT

Consistency of inspection process across teams of 30+ inspectors throughout the US



## Inspection management and control

- Identify what data to capture
- Understand Failure Mechanisms associated with inspection process
- Understand what is critical to the Client
- Design and plan for Human Factors

## Integration of systems to provide a solution

- Internal Business System – STEPQ
- Client based Program Specific systems
- Solution



## “One-Stop-Shop solution”

- Mobile
- Secure
- Control of inspection process
- Error proofing
- Capture and share inspection results in real time
- Access to Client documentation
- Access to current revisions of specifications
- Incorporation of specific inspection requirements
- Adaptable
- User friendly





# MOBILE INSPECTION CONTROL & CAPTURE SYSTEM

Login

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Next

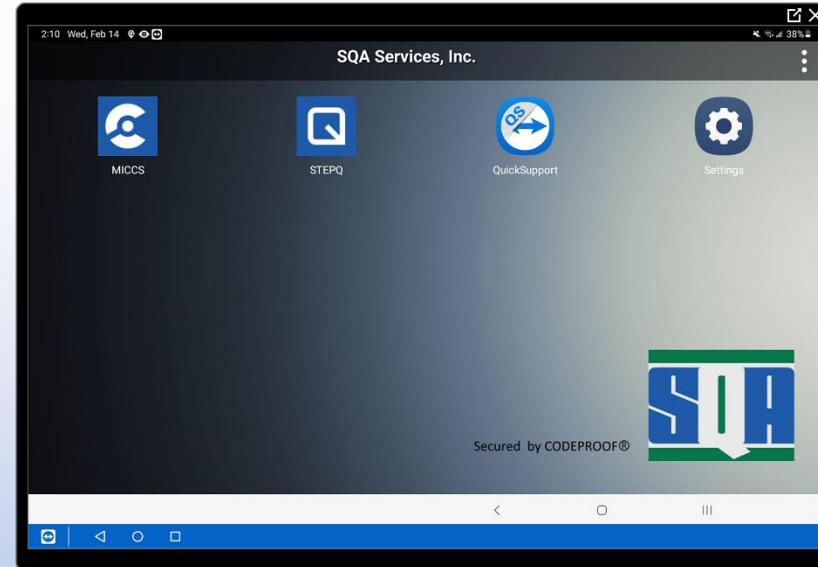


# THE ROAD TO ZERO DEFECTS: SQA MICCS

## Mobile Inspection Capture and Control System (MICCS)

Hundreds of  
tablets currently  
deployed

Multiple different  
inspection checklists



As a tool for handling individual inspections, the MICCS application is an extension of a larger SQA system called STEPQ.

STEPQ coordinates inspectors with their inspection tasks, including timing, location, and specific parts.

While MICCS handles individual inspections, STEPQ consolidates and produces metrics from all SQA inspection activities for the world's leading aerospace, hi-tech, and med-tech companies.

## Poke-yoke data inputs and program requirements

- STEPQ Data (Part number/PO/etc.) validated during inspection  
Reduction in “clerical errors”

The top screenshot shows a software interface with a dark header bar containing tabs: Info, Documentation Check, Inspection Setup, Master for All Products, and Dimensional Feature Check. Below the header, there are input fields for 'PO/StepQ' (containing '4') and 'COC'. A red-bordered box highlights a red error message: '\*| Purchase Order Number' followed by '34|' and 'The PO number you entered does not match StepQ please verify the correct PO number and update StepQ or the tablet entry.' Below this, there is a 'PO Revision' field containing '4' and a green checkmark button.

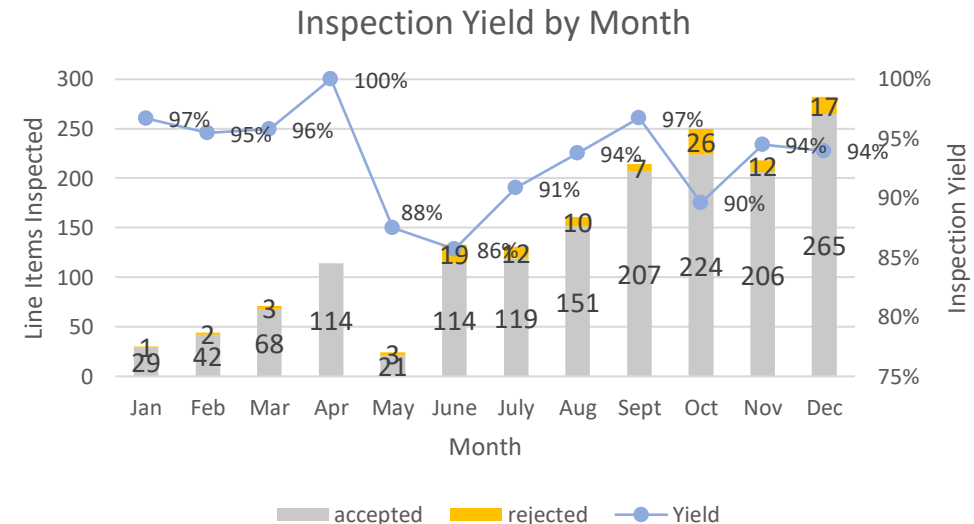
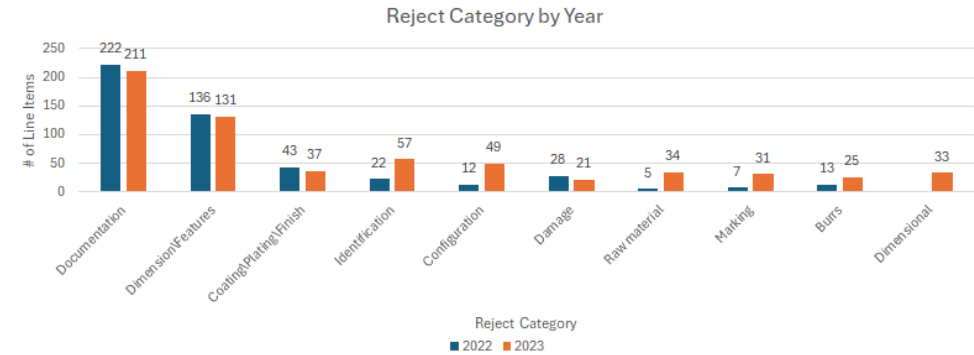
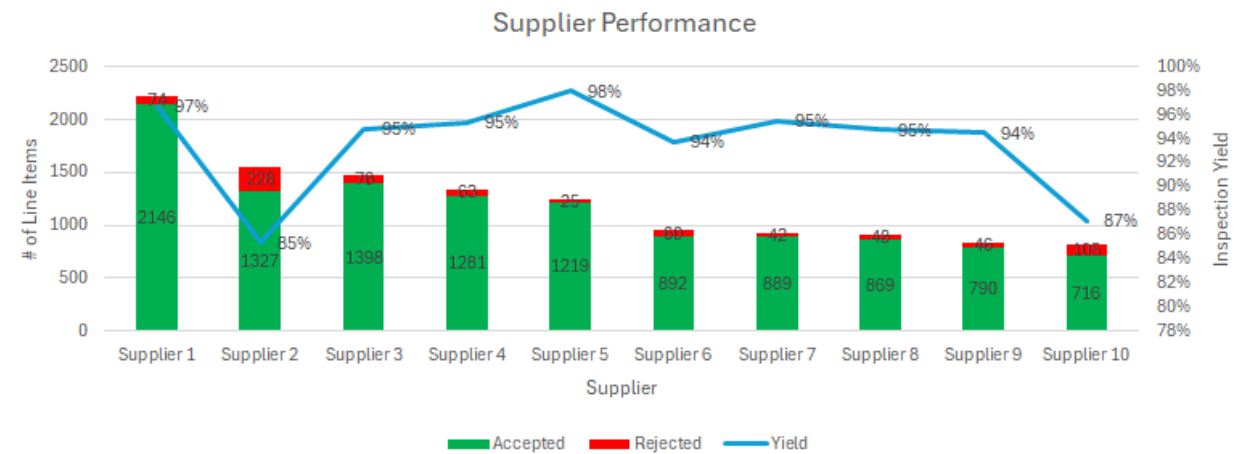
The bottom screenshot shows the same interface with the 'Inspection Setup' tab selected. A checklist is displayed with items: 'QC-045 GIDEP Program Participation', 'QC-046 Deliverable Data: Radiographic Test Results', and 'QC-047 Deliverable Data: Customer Furnished Material Report'. A red-bordered box highlights a red error message: '\*| Is QC-020 listed on the PO for this Line item?' followed by 'Yes' and 'No' buttons, and 'Should be equal "Yes"'. The left sidebar contains a 'Checklist Instructions' section with a green checkmark, and a 'Commodity' section with a green checkmark. The bottom section contains a 'QC's/ Drawing Notes' section with a green checkmark, an 'FAI' section with a green checkmark, and a 'Special Processes' section.

- Program Requirements within the checklist are validated  
Consistency between inspections

# ACTIONABLE DATA

## Program Insights:

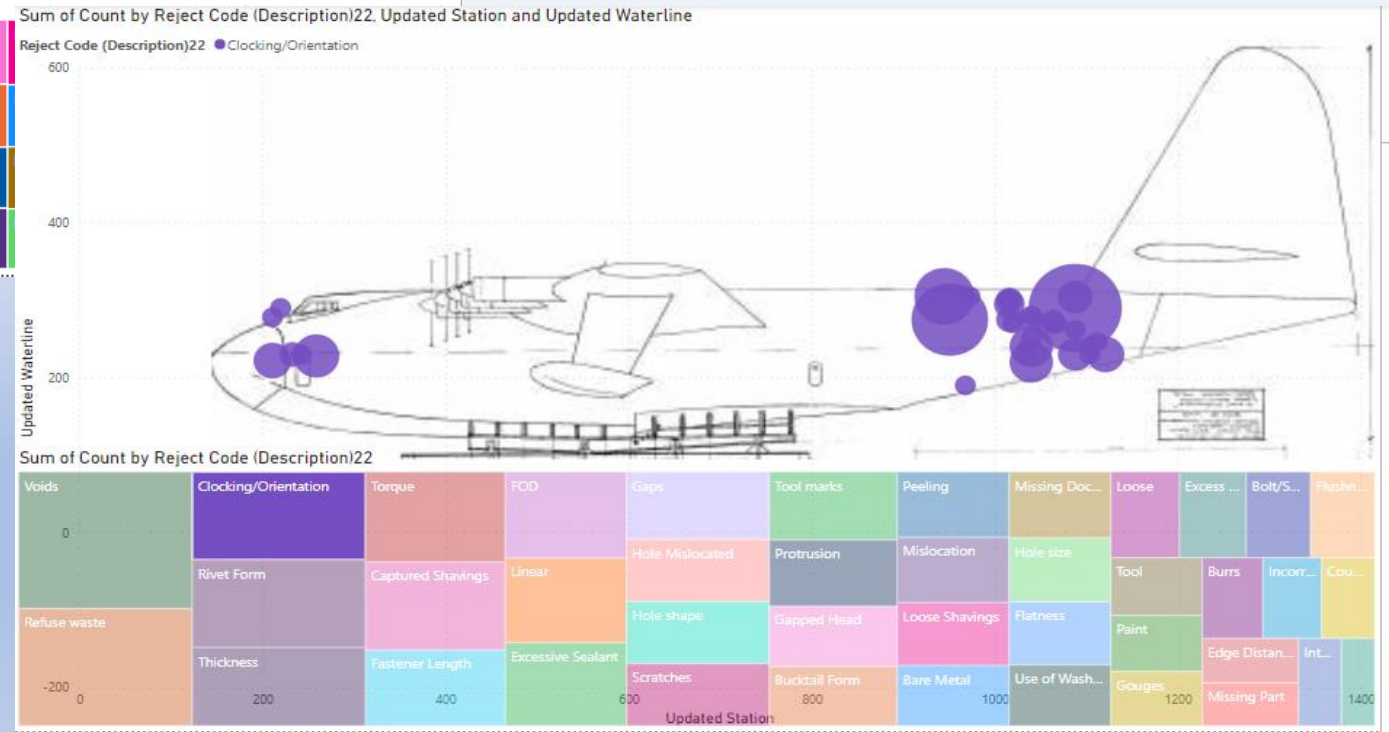
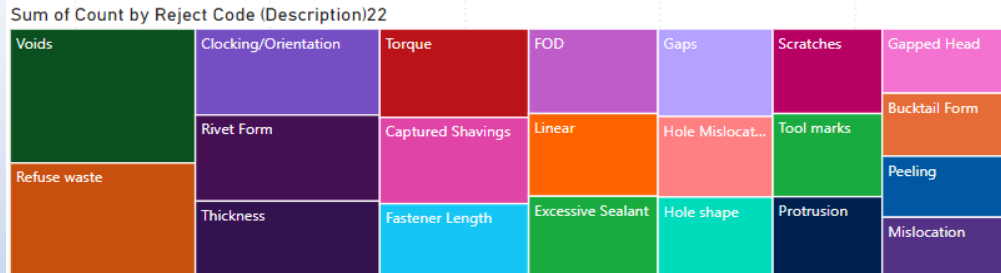
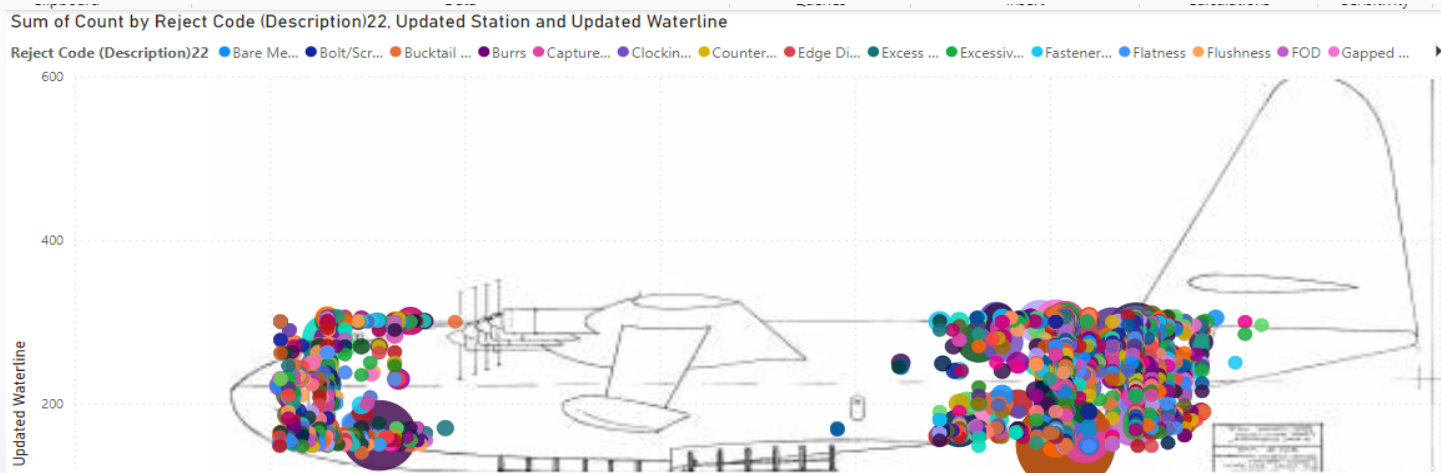
- Supplier performance
  - Pass/Fail percentages
  - Supplier capability
  - Raw data results
- Manufacturability
  - Nonconformance trends across Supply base by part number
  - Nonconformance trends across the program
- Inspector performance
  - Pass/Fail percentages
  - Inspection Audit report
  - Compliance to requirements



# BEYOND THE HORIZON

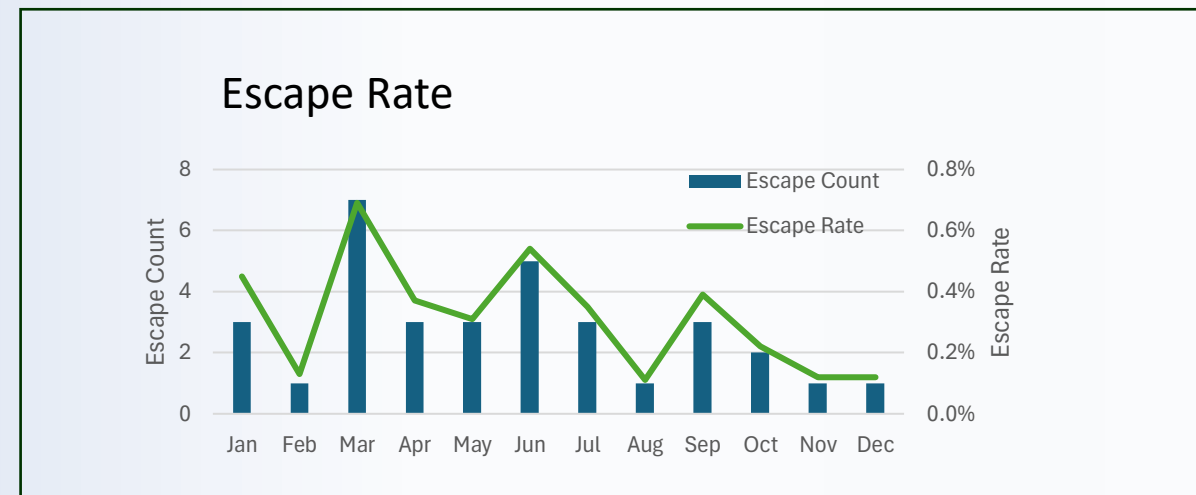
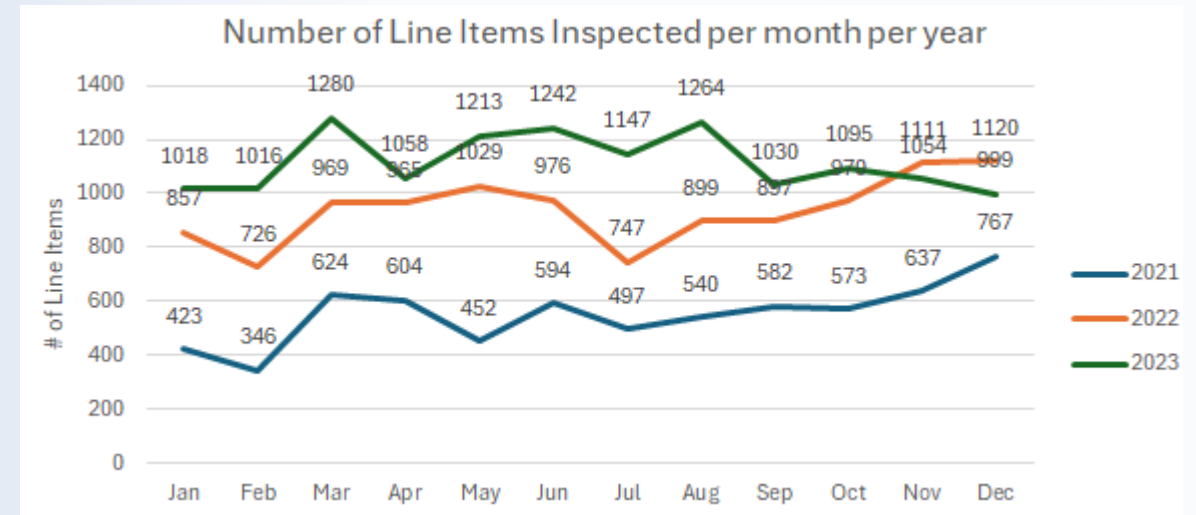
## Supplier Recovery and Process Inspections

- Fully customizable to specific program needs
- Process, Inspection, containment



## Example Source Inspection Programs:

- Client A – 7 years  
Escape rate less than 1%  
Millions of parts inspected  
60 inspectors  
100+ inspections a day at peak
- Client B – 2 years  
Escape rate less than 1%  
100+ inspections a week  
35 Inspectors



# MICCS live Demo



# THANK YOU!!