TS-414 FALL CO-OP WORK OVERVIEW

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INTRODUCTION

Name: Sean Murray

Home: Chapel Hill, NC

School: North Carolina State University

BS Aerospace Engineering

May 2021

Interests: Cars, Space, Aviation

Department: TS-414

Poka Yoke and BVIS Teams



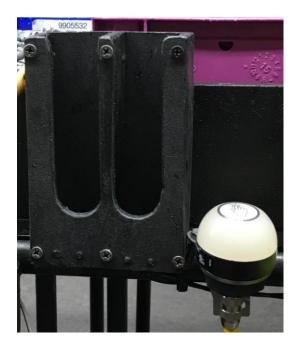
Poka Yoke Projects

Task Description

- General building, wiring, and programming support
- Specialty Poka Yoke Design
 - Thermostat Verification
 - Exhaust Manifold Fixture
 - Screw Counter Prototype
- Arduino Sound to WAGO Communication

Personal Improvements

- Design, Fabrication, Wiring, Programming
- Problem Solving and Error Prevention
- Lean Manufacturing











BVIS Projects

Task Description

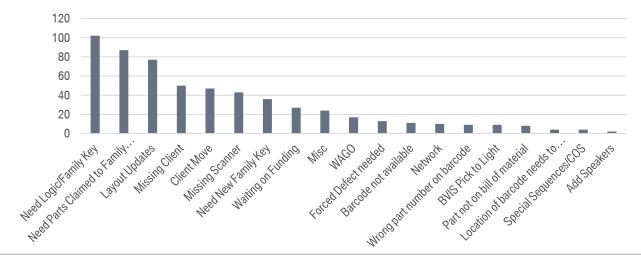
- H50 G05 Launch BVIS LOP Analysis
- Splunk Dashboard
- Text to Speech Sound Generation
- BVIS Forced Defect Scans Investigation

Personal Improvements

- Root Cause Analysis
- Continuous Improvement
- BVIS Super User







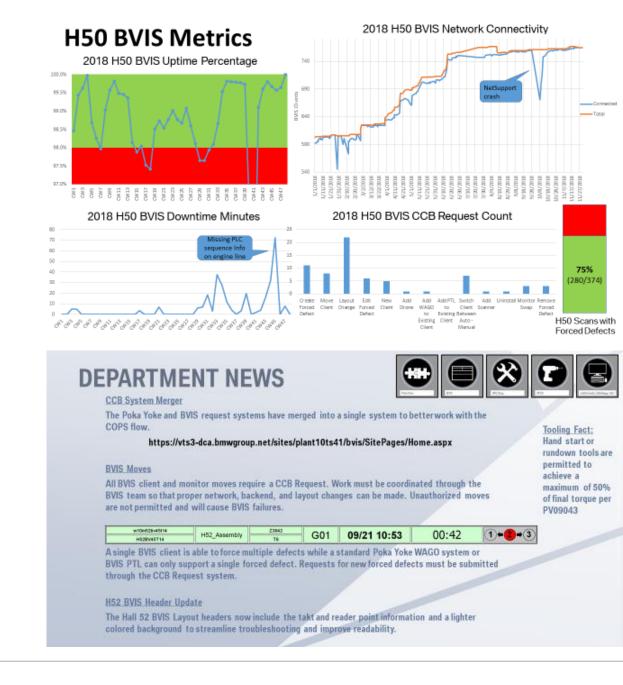
Department Communication and Outreach

Task Description

- BVIS Metrics
- Department Newsletter and Monitor
- Maintained Poka Yoke and BVIS intranet sites

Personal Improvements

- Effective data presentation and analysis
- Communication



Technology Documentation and Planning

Task Description

- Maintained Poka Yoke Catalog
- Process observations
- Managed Poka Yoke Component Inventory
- Winter Shutdown H52 Poke Yoke Planning

Personal Improvements

Planning, Organization, and Tracking

Band 40x Poka Yoke Moves						
Solution Description	Current Line	Desired Line	Move time	Notes		
	Location	Location	wove time			
Key Fobs	12001S	12001S	22-Dec	Moved after last production shift, stored, and reinstalled CW2		
Hud Screws (disconnected)	12005L	12005L	22-Dec	Moved after last production shift, stored, and reinstalled CW2		
LHD Console Bracket	12006L	12006L	22-Dec	Moved after last production shift, stored, and reinstalled CW2		
CID Screws	12011L	12014L	22-Dec	Moved after last production shift, stored, and reinstalled CW2		
Electrical Connection Verification	12012L	12010L	22-Dec	Moved after last production shift, stored, and reinstalled CW2		
Hood Actuators	40001L	40004L	CW2			
Brake/Gas Pedal	40002R	40005L	CW2			
B+ Cable	40004L	40007L	22-Dec	Equipment work conflict requires earlier move		
Fuel Line Defect	40006L	40008R	CW2			
FSSP	40008L	40016R	22-Dec	Equipment work conflict requires earlier move		
IP Tunnel Bracket	40009R	40012R	CW2			
Smart Chip Verification	40010R	40013R	22-Dec	Equipment work conflict requires earlier move		
DCS Bracket (disconnected)	40012R	40014R	CW2			
Console Supermarket	40012L	40014L	CW2			
Wiper Motor	40014R	same				
ACSM Bracket	40014L	40016L	CW2			
G01 Hatch Plug	40015L	same				
Distributer Mobile Cart	40016R	same				
D-Pillar L	40017L	40015R	CW2			
D-Pillar R	40017R	40015R	CW2			
Heat Shield	40018R	40019R	CW2			
G01/G02 Striker R	40019R	same				
G01/G02 Striker L	40019L	same				
Lashing Eye	44001L	same				
9XA Option Alarm (disconnected)	44005L			Remove prior to shutdown		
Taillight Grommet (disconnected)	44007L	47009L	CW2			
Rain Sensor Area Light Grid	44007R	47001R	CW2			
Switch Valve	45001L	47003R	CW2			
Center Console Smoker Package	45001R	44007S	CW2			
RHD Dummy Plug	45004R	45007R	CW2			
Seat Release Lever R	45005R	45007R	CW2			
Seat Release Lever L	45005L	same				
Hatch Mobile Cart	45008L	48008L	CW2			
Faceplate/Badge	45008R	44010L	CW2			
Mobile Cart Wago Box (disconnected)	48001L			Remove prior to shutdown		
Spare Wheel Foam	48002L	45014R	CW2			
Seat Release Lever	48002R	45014R	CW2			
Rocker Light	48004L	same				
Step Plate	48004R	same				
China Sticker	48007L	same				
Fuel Cap Area Light Grid	48008L	48007L	CW2			
Bumper Bracket and Heated Seat	48008R	48007R	CW2			

Racks moved after last production shift	8
Racks requiring storage	5
Racks moved in CW2	27
Racks removed prior to shutdown	2
Racks in correct location	10