

Network PCA Form

Request Information

Requestor Name: Adam Nowak

Requestor Job Title: Reliability Engineer

Requestor Site: All Air, AR Sortable, and Sort Centers

Date: 9/28/2021

Triggering Event WO#: N/A

Triggering Event TT Link (If Applicable): N/A

Brief Description of Root Cause for Triggering Event/Why PCA being requested:

The current photo eyes that are installed on bulk loaded conveyance requires a break in the feedback beam to sense the movement of packages in front of it. This presents a problem when there are bulk loaded packages on large collector belts. Bulk loads may not allow the current photo eye beams to get a feedback signal due to the packages touching. This often requires sites to increase the timers on these photo eyes.

Increasing the timers can cause catastrophic damage to conveyors by allowing the belts to run while there is a real jam present. By installing the Q5X sensor sites have seen an 80% reduction in false jams while protecting collector belts with lowered jam sensor timing.

Equipment Model/Models Impacted: Jam Sensors located on bulk load conveyance beds, all models, all OEM's.

Sites Impacted:

Air:

KAFW, KBWI, KCVG, KILN, KLAL, KRFD, KRIV, & KSBD

AR Sortable:

ABQ1, ACY1, AGS1, AKC1, ATL2, AUS2, AUS3, BDL2, BDL3, BDL4, BFI4, BFL1, BHM1, BOI2, BOS3, BWI2, CLE2, CLE3, CLT4, CMH1, CMH4, DAL3, DCA1, DEN3, DEN4, DET3, DET6, DFW7, DSM5, DTW1, ELP1, EWR4, EWR9, FAT1, FSD1, FTW6, GEG1, GRR1, GYR1, HOU2, HOU6, IGQ1, JAN1, JAX2, JFK8, LAS7, LGA9, LGB3, LGB7, LIT1, MCO1, MDW7, MEM4, MIA1, MKC6, MKE1, MKE2, MQY1, MSP1, MTN1, OAK4, OKC1, OMA2, ORD5, ORF3, OXR1, PAE2, PCW1, PDX9, PSP1, RDU1, RIC4, SAN3, SAT2, SAT3, SCK6, SLC1, SMF1, STL8, SYR1, TPA1, TPA4, TUL2, TUS2, TYS1, VGT1, YEG2, YHM1, YOW3, & YYZ4

Sort Centers:

ABQ5, ACY5, ACY8, ACY9, AFW5, AGS5, ATL6, AUS5, AZA5, AZA9, BDL5, BDU5, BFI5, BFI8, BNA5, BNA8, BNA9, BOI5, BOS4, BOS5, BTR9, BUF5, BWI5, CDW5, CLE5, CLT5, CLT9, CMH5, CNO5, COS5, CVG5, CVG9, DAL9, DEN5, DFW8, DSM9, DTW5, DTW8, DTW9, EUG5, EWR5, EWR8, FAT5, HFD5, HOU1, HOU5, IAH5, JAX5, JAX9, LAL3, LAS5, LAX5, LBB5, LDJ5, LGA5, LGB5, LUK5, MCI5, MCO5, MCO9, MDT5, MDW5, MEM5, MGE5, MGE8, MGE9, MIA2, MIA5, MKE5, MKE6, MOB5, MQJ5, MQJ9, MSP5, MSP7, MSP9, MTN2, MTN5, MTN6, MTN8, MTN9, OAK5, OKC5, ONT1, ONT5, ORD9, OWD5, OWD9, PDX5, PIT5, PIT9, PNE5, RBD5, RDU5, RDU9, RIC5, RNT9, RSW5, SAC5, SAT5, SAT9, SBD5, SCK9, SLC9, SMF5, STL5, STL9, TCY5, TCY9, TOR5, TUL5, TUS5, VGT5, YHM5, YHM9, YUL5, YUL9, & YVR7

General PCA WO Information

PCA Work Order Description: Replace Jam Sensors on Bulk-loaded Conveyor Beds with “Jamazn” Banner Q5X Sensors

Is LOTO/MTHA needed?: No

of Techs required to perform task: 2 Technicians

Requested PCA Due Date: 11/1/2021

Enter General Task instructions for WO:

- ☐ Locate jam sensors on bulk loaded conveyor beds
- ☐ Gather all materials and parts:
 - Q5X JAMAZN Sensor (APN# 41612)
 - Q5X Mounting Bracket (APN# 41613)
- ☐ Replaced identified jam sensors with JAMAZN sensors per the instructions in the next page
- ☐ Teach and program new jam sensors
- ☐ Change jam timer
- ☐ Verify sensors are working as intended
- ☐ Complete a “before & after” jam report analysis and record results in quips below
 - Air Sites:
 - <https://quip-amazon.com/hC6cA3AISqnv/AIR-ONLY-Jam-tracking-before-and-after-Q5X-install>
 - AR Sortable Sites:
 - <https://quip-amazon.com/YD2aA4LIBKrV/ARS-ONLY-Jam-tracking-before-and-after-Q5X-install>
 - Sort Centers:
 - <https://quip-amazon.com/iXOCA4YqdyWM/Sort-Center-ONLY-Jam-tracking-before-and-after-Q5X-install>
- ☐ Create 2/4 min/max spare for APN# 41612

Is there a master MCM/CR for this PCA request: Yes

If Yes, provide link: <https://mcm.amazon.com/cms/MCM-46370484>
<https://approval.amazon.com/Approval/Details/4492543>

Is a PO required for this PCA (Yes or No?): Yes

Are the sites responsible for submitting PO (Yes or No or N/A?): Yes

PCA Instruction Below:

Please follow the tasks in the Q5X PCA Instructions spreadsheet below.



Q5X PCA
Instructions.xls



Q5X Quick Start
Guide.pdf



Q5X General
Brochure.pdf



Q5X PCA White
Paper.docx

Weekly office hours for the Q5X “Jamazn” installation will be held every Wednesday at 10am EST until all sites have completed their install.

Click to join the meeting: <https://chime.aws/5356860928>

Meeting ID: 5356 86 0928

Installation SME's: Email group for any installation help needed: q5x-installation-group@amazon.com

Stephen Materni (CSE): materns@amazon.com

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