Global RME Jam Program

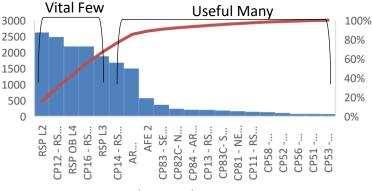
SYR1 Jam Analysis Jun 1 - Aug 31 (2024)

Analyzing a small sample from (Jun 1 – Aug 31) the top five (5) equipment subareas with the highest OEE faulted hours were, ARSTOW, PACKLINE, AR FIELD, ARSAW and RECEIVE. The top five (5) Alarm faults matched the subarea presented by the OEE dashboard, with a slight higher alarm indications. As seen on *table 1* and *chart 1*.

(Reference Appendix page 2 & 3)

Top 5 Subarea	Faulted Hrs.
ARSTOW	14008
PACKLINE	1700
AR FIELD	1621
ARSAW	1407
RECEIVE	714

Faulted Hours Chart



Alarm Faults Pareto

When analyzing the total volume of units and comparing to SEV/HIE events, the amount of incidents reported is in correlation to the sites total volume that get's processed in those areas. In particularly, the AR INFEED, SHIP area had the most volume which correlates to the highest incidents area. (*Reference Appendix page 5 & 6*)

Area	Total Units
SHIP	1,071,852,002
AFE 1	336,319,884
AFE 2	241,275,028
AFE Z	241,273,028
RSP	107,261,488
PACK	82,246,785

Top 5 Equipment	SEV/HIE Events
AR INFEED	22
SHIP	8
AFE 1	5
AR RCV	4
AR ARSAW	3

SEV Events Chart

Throughput Chart

❖ Safety Incident: An AA experience an injury on July 21, 2024 while working on the stow station 2317. A tote came onto the back of the sled at a slant, becoming stuck. While attempting to unjam the tote they felt a sharp pain in their right shoulder and lower back. (*Reference Appendix page 7*)

Take Action

- 1) Physical site audit will be conducted on October 8 and October 9
 - Audit the 5 (ARSTOW, PACKLINE, AR FIELD, ARSAW and RECEIVE) area/subarea of faulted hrs. by Jam
 - Conduct the 6 Jam PCA verification of completion (Reference Appendix page 8)
 - 4 Best Practices has been identified to support the site with Jam reduction (Reference Appendix page 8)
 - Conduct a brief closing meeting of the physical audit with all follow ups (if any)
- 2) Physical site audit of the STOW STATION (Incident Reported)
 - Verify that area is clean of labels and that RME is consistent with PM maintenance (Reference Appendix page 7)
- 3) 3 Months of Program Management support for the site
 - Goal to focus on the top 5 faulted problem areas (use the 80-20 rule)
 - · Come up with actions to support site with faulted problem areas
 - Virtual SYR1 Jam Support chime group will be created. The purpose of the group will be to support SYR1 and add any additional support teams to help the site improve
 - · Biweekly meetings will be established for site support and progress updates

OEE Faulted (Jams)

FAULTED TIME (HRS)

FAULTED

NETWORK FAULTED

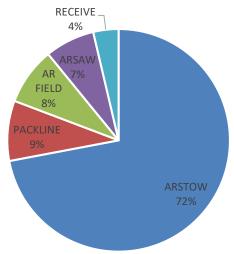
99.05%

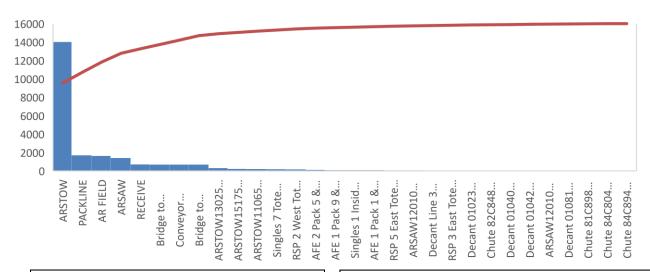
23,840.64

NETWORK FAULTED - CHRONOLOGICAL



Top 5 Subarea	Faulted Hrs.
ARSTOW	14008
PACKLINE	1700
AR FIELD	1621
ARSAW	1407
RECEIVE	714

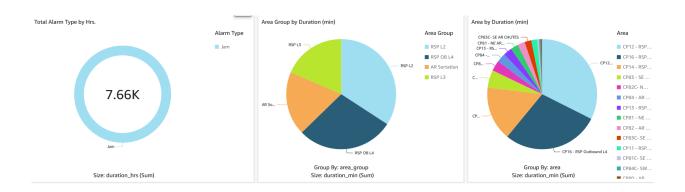


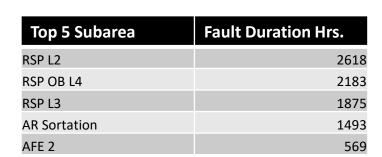


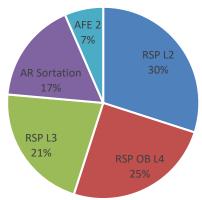
ARSTOW	14008
Bridge to ARSTOW 13165	699
Bridge to ARSTOW 13065	696
ARSTOW13025 Divert Right	308
ARSTOW15175 Divert Left	218
ARSTOW11065 VRC	202
PACKLINE	1700
Singles 7 Tote Infeed Gravity	181
AFE 2 Pack 5 & 6 Takeaway	114
AFE 1 Pack 9 & 10 Takeaway	85
Singles 1 Inside Totes	84
AFE 1 Pack 1 & 2 Takeaway	79
AR FIELD	1621
Conveyor 81C700	696
Chute 82C848 & 82C849	36
Chute 81C898 & 81C899	22
Chute 84C804 & 84C805	17
Chute 84C894 & 84C895	16

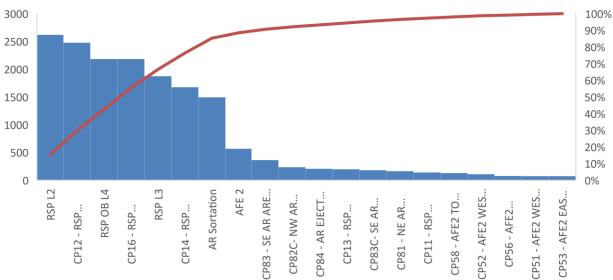
ARSAW	1407
RSP 2 West Tote Stack Conveyance Merge	172
RSP 5 East Tote Stack Conveyance Merge	62
ARSAW12010 Zone2	56
RSP 3 East Tote Stack Conveyance Merge	50
ARSAW12010 Zone1	31
RECEIVE	714
Decant Line 3 Takeaway to Inbound Merge	53
Decant 01023 Takeaway	43
Decant 01040 Takeaway	35
Decant 01042 Takeaway	35
Decant 01081 Takeaway	29

Alarms Faults



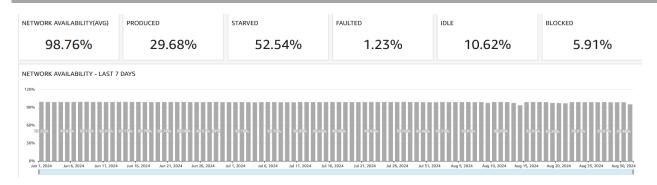




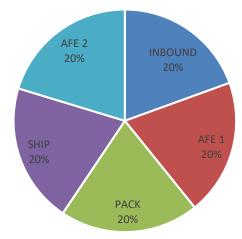


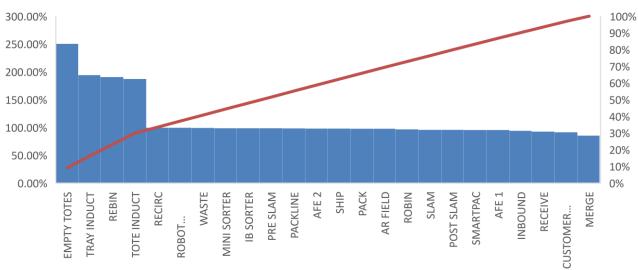
DOD 1.0	
RSP L2	2618
CP12 - RSP Outbound L2	2477
CP11 - RSP Inbound L2	141
RSP OB L4	2183
CP16 - RSP Outbound L4	2183
RSP L3	1875
CP14 - RSP Outbound L3	1676
CP13 - RSP Inbound L3	199
AR Sortation	1493
CP83 - SE AR AREA L1	361
CP82C- NW AR CHUTES	235
CP84 - AR EJECT CHUTES L1	208
CP83C- SE AR CHUTES	181
CP81 - NE AR AREA L1	164
AFE 2	569
CP58 - AFE2 TO PACKOUT EAST	129
CP52 - AFE2 WEST CENTER SIDE	108
CP56 - AFE2 SORTER L1	77
CP51 - AFE2 WEST SIDE L1	74
CP53 - AFE2 EAST CENTER SIDE	74

OEE Availability



Top 5 Area	OEE Availability
INBOUND	94.01%
AFE 1	95.29%
PACK	97.62%
SHIP	98.00%
AFE 2	98.04%





Area	OEE availbility
INBOUND	94.01%
CUSTOMER RETURN	91.35%
RECEIVE	92.48%
EMPTY TOTES	97.47%
IB SORTER	98.60%
WASTE	99.19%
AFE 1	95.29%
EMPTY TOTES	76.74%
TOTE INDUCT	87.75%
TRAY INDUCT	94.61%
REBIN	96.97%
MINI SORTER	98.67%
PACK	97.62%
SMARTPAC	95.30%
SLAM	95.74%
PACKLINE	98.26%
PRE SLAM	98.58%

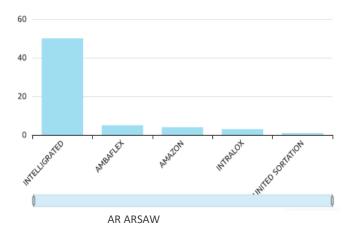
SHIP	98.00%
POST SLAM	95.69%
ROBIN	96.40%
AR FIELD	97.58%
ROBOT PALLETIZING	99.29%
RECIRC	99.54%
AFE 2	98.04%
EMPTY TOTES	76.19%
MERGE	85.23%
REBIN	93.61%
TRAY INDUCT	99.39%
TOTE INDUCT	99.42%

SEV/HIE Events

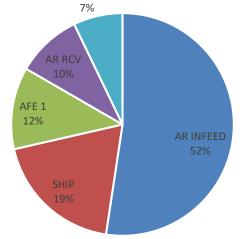
SEV Primary Cause Index

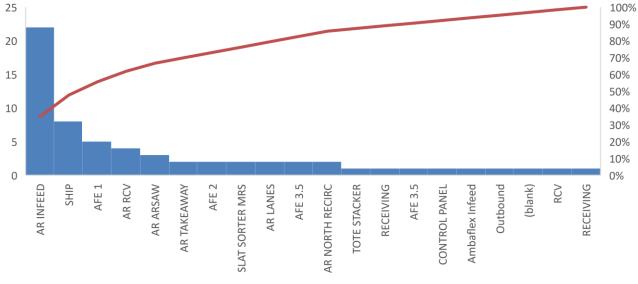
primary_cause	trouble_ticket	rolled_volume	lph
null	2	0	0
Design Defect	3	0	19
Design defect	1	0	180.55
Loose Product/Amnesty/Spill	5	0	103.15
MCM-induced failure	2	0	0
Operational Issue	39	0	0
Operational issue	7	0	131.36
Original OEM Installation Error	1	0	643
Total	63	0	1,446.81

Total SEV by OEM



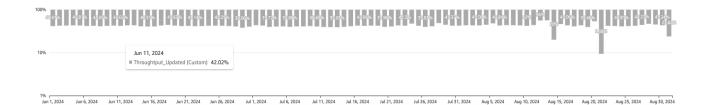
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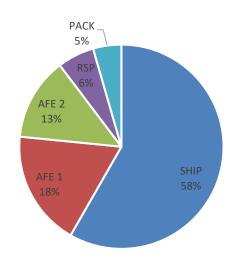


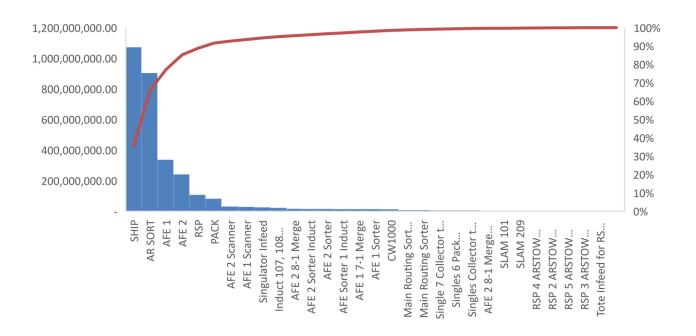
AR INFEED	22
AMAZON ROBOTICS SYSTEMS, ZONE 1, LANES, INFEED 01 NORTH, 81010 CP81	:
AMAZON ROBOTICS SYSTEMS, ZONE 1, LANES, INFEED 01 NORTH, 81015 CP81	
AMAZON ROBOTICS SYSTEMS, ZONE 1, LANES, INFEED 01 NORTH, 81025 CP81	2
AMAZON ROBOTICS SYSTEMS, ZONE 1, LANES, INFEED 01 NORTH, 81030 CP81	(
AMAZON ROBOTICS SYSTEMS, ZONE 1, LANES, INFEED 01 NORTH, 81035 CP81	1
SHIP	8
SHP.BOT.1; LANE 01; BELT CONV; (Alias_Des); CP80	1
SHP.BOT.2; LOOP SIR; BELT CONV; (Alias_Des); CP82	1
SHP.BOT.3; LOOP SIR; BELT CONV; (Alias_Des); CP83	1
SHP.BOT.3; SIR; ACTIVE ROLLER BELT SORTER; (Alias_Des); CP83	1
SHP.BOT.4; LOOP SIR; BELT CONV; (Alias_Des); CP84	1
AFE 1	5
EMPTY TOTE SYSTEM, AFE 1 TO EAST SIDE, LANE 01, 49025 CP49	1
EMPTY TOTE SYSTEM, AFE 1 TO EAST SIDE, LANE 02, 49160 CP49	3
EMPTY TOTE SYSTEM, AFE 1 TO EAST SIDE, TOTE STACKER	1
AR RCV	4
AMAZON ROBOTICS SYSTEMS, ZONE 2, LANES, RCV SORTER TO KO, 11205 CP11	1
AMAZON ROBOTICS SYSTEMS, ZONE 5, LANES, RCV SORTER TO KO, 02220 CP02	1
AMAZON ROBOTICS SYSTEMS, ZONE 5, LANES, RCV SORTER TO KO, 17200 CP17	1
AMAZON ROBOTICS SYSTEMS, ZONE 5, LANES, RCV SORTER TO KO, 17203 CP17	1
AR ARSAW	3
AMAZON ROBOTICS SYSTEMS, ZONE 2, LANES, ARSAW 2107 TO RSP INBOUND, 12620	1
AMAZON ROBOTICS SYSTEMS, ZONE 3, LANES, ARSAW 3108 TO RTG SORTER, 14215 CP14	1
AMAZON ROBOTICS SYSTEMS, ZONE 3, LANES, ARSAW 3108 TO RTG SORTER, 14235 CP14	1

Throughput Total Units (Site Volume)



Area	Total Units
SHIP	1,071,852,002.00
AFE 1	336,319,884.00
AFE 2	241,275,028.00
RSP	107,261,488.00
PACK	82,246,785.00





SHIP	1,071,852,002.00
AR SORT	903,564,269.00
Singulator Infeed	25,171,690.00
CW1000	12,787,894.00
Main Routing Sorter Scanner	7,407,293.00
Main Routing Sorter	7,346,098.00
AFE 1	336,319,884.00
AFE 1 Scanner	28,250,741.00
Induct 107, 108 Merge Takeaway	22,036,782.00
AFE Sorter 1 Induct	14,063,590.00
AFE 17-1 Merge	13,931,673.00
AFE 1 Sorter	13,689,439.00
AFE 2	241,275,028.00
AFE 2 Scanner	30,797,890.00
AFE 2 8-1 Merge	15,626,809.00
AFE 2 Sorter Induct	15,328,683.00
AFE 2 Sorter	15,124,272.00
AFE 2 8-1 Merge Lane 3	2,506,500.00

RSP	107,261,488.00
RSP 4 ARSTOW Entry Scanner	1,630,516.00
RSP 2 ARSTOW Entry Scanner	1,600,852.00
RSP 5 ARSTOW Entry Scanner	1,554,880.00
RSP 3 ARSTOW Entry Scanner	1,549,861.00
Tote Infeed for RSP 4 ARSTOW	1,397,682.00
PACK	82,246,785.00
Single 7 Collector to AR North	5,444,677.00
Singles 6 Pack Takeaway	5,280,836.00
Singles Collector to AR North	5,158,423.00
SLAM 101	2,202,599.00
SLAM 209	2,141,788.00

Safety Incidents

Case Number	Site	Date	Injury Location	Description
SYR1-24-1024	SYR1	Jul 21, 2024	Stow Station	On 07/21/2024/at 8:55 AM an AA working in Stow suffered an injury to their lower back/right shoulder when AA said the tote came onto the back of the sled slanted becoming stuck so they attempted to unjam the tote to slide it down into the front of the sled and while doing so, felt a sharp pain in their right shoulder and discomfort in their lower back. The AA reported for treatment on 07/21/2024 at 09:27 AM with 7/10 pain. Leadership was notified of the incident by the associate and proceeded to the treatment location. The AA received onsite treatment and returned to normal path. During the investigation, the AA stated they were following standard work at the time of the incident. At the time of the incident, the AA had been working in Stow, which is their home path, for 1 hour. The AA was hired on 06/27/2024 and works on the DL4-0700 shift. The AA was not working overtime at the time of the incident. The associate was not working in a path which requires job rotation. Job rotation was not found to be a contributing factor. The AA is trained in the path in which they were working at the time of the incident. The AA trained in Stow on 07/02/2024 using module # Nike Stow Day 3. Review of training material was conducted and deficiencies were not identified. Training was not found to be a contributing factor. The work area was reported by the associate as being organized at the time of the incident. The AA stated they were using the correct tools for the process. The correct tools for the process were available. The tools were found to be in safe working condition. Area readiness was not found to be a contributing factor. The AA was working with/near the following equipment: yellow tote at ARStow station 2317. The following deficiencies were found within the equipment: Tote came in at an angle onto back of sled getting stuck/wedged . Machinery and equipment were found to be a contributing factor. During the investigation, the AA stated that they were wearing the proper PPE for the task at the time of the injury.

Network Initiatives

Applicable PCA's for JAM		WO's	Attachments
CONV.TRANSNORM	Status		
PCA-PCA - Bulk Flow conveyor transition gap	Completed	1	_ NA RESENDENTALY.C.+ (
PCA-PCA – Gen11 AR Amnesty Trap Project	Completed	1	_MANGETHORIZA_ECI-Seri Rikomog Tog Pojez, IKA 225 (Long
PCA-PCA - Belt Edge Protection bulk flow bed	Completed	1	_ Wild ENGINO 20_20 Addis-hasion bit his 45 (3,220) mg
AFE3.5.1.			
All IQZF Intell-Q 100% Full PE Check PCA	Open	9	METERORIEVANICEFINIA OU FILMECHARICA ANT CHEZIA reg
AR.ZONE			### ### ##############################
Ambaflex Overheight Protection bar PCA	Completed	19	
RWC4 Infeed Bracket Width Change PCA	Completed	1	REFERENCE AND A medicate life Corp. 17 leg (de 124 mag

> The table below represents a total of applicable PCA's for SYR1. JAM PCA's accounted for **29%** of overall PCA's.

Work Typ	e	Completed	Cancelled	Open	Review	Scheduled	Grand Total
PCA		313	3	19	0	0	335
400							335
	313						333
300							
200							
100							
		3	19	0	0		
0 —							
	Completed	Cancelled	Open	Review	Schedul	ed Gr	and Total

	Completed C	ancelled	Open	Review	Scheduled	Grand Total
Potentia	al Best Practice	Des	cription		Image	
Double Rou	ughness Injector Belt	installa the inc site. Th efficien by par	est practice aims for ation of a dual frict duct station of the ne injector belt im ncy and reduce "JA cels sliding on the	proves	Old Belt	New Belt
Transition I	Plate for Jam Detect	parcels and th as soo this all	oject aims to dete s between the tran e belt. The detecti n as the blockage ows for the preve ge equipment	nsition plate ion starts happens,	THE STATE OF THE S	
SLAM – Ha	zMat Camera Cover	packag on Sing product entrang investi distand the Sca		Bs especially pes of the ter ed out, that ing belt and nother		
		increa: reduci	nplementation con sing the ECCs spee ng the waiting tim asis is given to jam	eds and ers. Special	The improvement is divided into four (4) different pha	998

several actions have to be

AFE3.5 Performance Improvement from occurring

performed in order to avoid them