

City of Ann Arbor MRF Audit

Dear Ms. Gomes

The following report is a maintenance and operations evaluation of the equipment installed at the City of Ann Arbor Materials Recovery Facility by CP Manufacturing. The information gathered for this report was collected by Craig Frisch, Senior Field Project Manager. This information was gathered over a two day period.

During the two day evaluation, we focused on the following key areas:

1. Maintenance of the mechanical equipment (Primary focus on the main equipment)

This report has been organized in the following manner:

- A. Itemized breakdown of each individual piece of equipment
- B. Corresponding list of the individual parts evaluated for each piece of equipment
- C. Notes and recommendations for each piece of equipment

At the end of this report, we have included a brief summary of our findings and a few recommendations for areas that we feel are especially problematic. We would like to thank you for welcoming us into your facility and for all of the help and assistance offered to us during our visit. We hope that the information contained within this audit helps with the necessary improvements, resulting in improved equipment performance and material recovery. Please feel free to contact us at any time with any questions or concerns.

Sincerely,

Mariska Augustyn-Morales

Customer Service Representative, CP Manufacturing

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Item #	Description
M-1	Lower Horizontal Conveyor Existing, Extended 15FT Roller Chain 9" Pitch, 3" Roller
M-2	Incline Conveyor, 9" Pitch, 3" Roller Chain – Existing, Extended at Tail 10FT
M-3	Metering Drum, LH Drive 9009011
M-4A	Steel Transfer Conveyor, Flat Slider C/W 220 Rubber Cleated Belt
M-5	Trash Transfer Conveyor, Flat Slider C/W 220 Rubber Cleated Belt
M-6	Large Plastic Transfer Conveyor, Flat slider C/W 220 Rubber Flat Belt
M-7	Existing OCC Screen, 2 Section RH Drives Position 9001275
M-8	Existing Large OCC Transfer Conveyor, Flat slider C/W 220 Rubber Flat Belt 27168-005-001- Existing
M-9A	Existing Large OCC Sort Conveyor, Existing Shorten 23FT
M-9B	Large OCC Transfer Conveyor, Flat Slider C/W 220 Rubber Cleated Belt
M-10A	OCC Bunker Conveyor, 9" Pitch, 3" Roller Chain Steel Belt, Reversing
M-11	Existing Mixed (OCC Unders) Corrugated Side Wall Belt Transfer Conveyor
M-12	Existing Mixed Transfer Conveyor, Flat Slider C/W 220 Rubber Flat Belt
M-13	Scalping Screen Pre-Sort
M-14	Scalping Screen, 3 Section LH Drives Position 9025250
M-15	Scalping Screen Post-Sort/Transfer Conveyor, Flat Slider C/W 220 Rubber Cleated Belt, Tilted Tail – Push Button E-Stops, One Each Side
M-16A	Small OCC Transfer Conveyor, Flat Slider C/W 220 Rubber Flat Belt
M-16B	Trash Transfer Conveyor, Flat Slider C/W 220 Rubber Flat Belt
M-16C	Trash Transfer Conveyor, Flat Slider C/W 220 Rubber Flat Belt
M-17	ONP Newscreen, Single Deck RH Drive 9022179
M-18	Large Fiber Transfer Conveyor, Flat Slider 220 Rubber Flat Belt (Newscreen Overs)
M-20	Large Fiber Sort Conveyor, Flat Slider 220 Cleat Top Rubber Belt
M-21	CPScreen Feed Conveyor, Flat Slider C/W 220 Rubber Cleated Belt
M-22	CPScreen, Single Deck RH Drive
M-23	Mid Fiber Transfer, Flat Slider 220 Rubber Flat Belt (CPScreen Overs)
M-24	Existing Middle/Small Fiber Sort Conveyor
M-26	Containers Transfer Conveyor, Slider Bed Rubber Belt
M-27	Containers Transfer Conveyor, Flat Slider 220 Rubber Cleated Belt

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M-28	Fiber Transfer Reversible Conveyor, Flat Slider CW 220 Rubber "V" Groove Cleat Top Belt
M-29	Glass Breaker, 3 Deck RH Drive Position
M-30	ADS Feed Conveyor, Flat Slider C/W 220 Rubber Staggered Cleated Belt
M-31A	ADS
M-31B	ADS
M-32	Fiber Transfer Conveyor, Flat Slider 220 Rubber Cleated Belt
M-33	Fiber Transfer Conveyor, Flat Slider 220 Rubber Cleated Belt
M-34	ADS Feed Conveyor, Flat Slider C/W 220 Rubber Staggered Cleated Belt (CP Screen Unders)
M-35	ADS
M-36	Fiber Transfer Conveyor, Flat Slider 220 Rubber Cleated Belt
M-37	Fiber Transfer Conveyor, Flat Slider 220 Rubber Cleated Belt
M-38	Existing Trash Bunker Conveyor – By Others
M-39	Existing Small OCC Bunker Conveyor – By Others
M-40	Existing OMP Bunker Conveyor – By Others
M-41	Office Paper Bunker Conveyor - Existing
M-42	Existing ONP Paper Bunker Conveyor
M-43	ONP Paper Bunker Conveyor - Existing
M-44	Containers Transfer Conveyor, Flat Roller 4 Ply 150, Corrugated Cleated Cross Rigid (From Double ADS)
M-45	Containers Transfer Conveyor, Flat Slider 220 Rubber Flat Belt
M-46A	Containers Transfer Conveyor, Flat Slider 220 Rubber Cleated Belt – 3" Cleats
M-46B	Containers Transfer Conveyor, Flat slider 220 Rubber Cleated Belt, SS Head
M-47	MSS Feed Accelerating Conveyor, Flat Slider 220 Rubber Belt
M-49	Steel Transfer Conveyor, Flat Slider 220 Rubber Flat Belt
M-50A	Aladdin Single Eject
M-50B	Air Rotary Screw Compressor - Kaeser
M-51	PET QC Conveyor, Slider Bed Rubber Cleated Belt
M-53	Pass Fraction Transfer Conveyor, Flat Slider 220 Rubber Cleated Belt
M-54	Containers Sort Conveyor, Flat slider 220 Rubber Belt
M-56	Aluminum QC Conveyor, Slider Bed Rubber Belt
M-57	Aluminum Silo Blower
M-58	Eddy Current Pass Fraction QC Conveyor, Slider Bed Rubber Belt LH Drive

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M-59	Trash Transfer Conveyor, Flat Slider 220 Rubber Cleated Belt
M-61	Glass Transfer Conveyor (GB Unders), Troughed Roller 2 Ply, Rubber 220 Belt
M-62	Glass Transfer Conveyor, Flat Roller 4 Ply 150, Corrugated Cleated Cross Rigid Belt
M-63A	Glass Transfer Conveyor, Flat Roller 4 Ply 150, Corrugated Cleated Cross Rigid Belt
M-63B	Glass Transfer Conveyor, Troughed Roller 2 Ply, Rubber 220 Belt
M-64	Glass Clean Up System, RH 9010150
M-65A	Glass Transfer Conveyor, Troughed Roller
M-65B	Glass Transfer Conveyor, Troughed Roller
M-65C	Glass Transfer Conveyor, Troughed Roller
M-71	Existing Silos And Bunkers Upload Conveyor – Reversed And Extended 19'8"
M-72	Existing Baler Feed Conveyor – Relocated and Shortened

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Item #	1	Motor #	M-1		
Description:	Lower Horizontal Conveyor Existing, Extended 15FT				
	Roller Chain 9" Pitch,	3" Roller			

Component	Good Condition	Needs Repair	N/A
Head Shaft		\boxtimes	
Tail Shaft		\boxtimes	
Return Roller			
Support Roller		\boxtimes	
Trough Roller			
Lacing		\boxtimes	
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			

Conveyor and all components need to be replaced.

Only salvageable part on conveyor is the support frame.



Picture shows damaged side wings on belt.

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Picture shows wrapped shafts. Take up frame is bent.



Picture shows damaged belt.

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Shaft is wrapped inside of belt.



Head sprocket and Motor sprocket needs to be replaced. When sprockets are replaced, it is advised to change chain.

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Item #	2	Motor #	M-2
Description:	Incline Conveyor, 9" P	itch, 3" Rollei	Chain – Existing, Extended at
	Tail 10FT		

Component	Good Condition	Needs Repair	N/A
Head Shaft			
Tail Shaft			
Return Roller			
Support Roller			
Trough Roller			
Lacing			\boxtimes
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



D hole bars are worn out, no cotter pin installed.

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Take up is bent. Shaft is wrapped.



D hole bars are missing/broken.



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Shaft is wrapped. Take up frame is bent.

Belt needs to be tensioned. Bearings need to be replaced.

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Item #	3	Motor #	M-3
Description:	Metering Drum, LH Di	rive 9009011	

Component	Good Condition	Needs Repair	N/A
Cleats			
Drive Shaft			
Power Unit			
Bearings			
Hydraulics			



Cleats need to be replaced.



Hydraulic Lines needs to be replaced and/or fixed.

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Item #	4A	Motor #	M-4A
Description:	Steel Transfer Convey	or, Flat Slider	C/W 220 Rubber Cleated Belt

Component	Good Condition	Needs Repair	N/A
Head Pulley			
Tail Pulley			
Return Roller			
Support Roller			
Trough Roller			
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



Bearings need to be replaced.

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Belt tracking is off.



Belt need to be replaced. Cleats are torn/missing.



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Head shaft is wrapped. Pulley needs to be replaced on both head and tail.

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Item #	4B	Motor #	M-4B
Description:	Steel Transfer Convey	or, Flat Slider	· C/W 220 Rubber Flat Belt

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley			
Return Roller			
Support Roller			
Trough Roller			
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



Pulley is damaged and needs to be replaced. Belt tracking is pulling to the left.

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Pulley is wrapped.



Lacing is damaged. Belt is torn.

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Motor #	M-5
Transfer Conveyor, Flat Slide	er C/W 220 Rubber Cleated
1	Motor # n Transfer Conveyor, Flat Slide

Component	Good Condition	Needs Repair	N/A
Head Pulley			
Tail Pulley	\boxtimes		
Return Roller			
Support Roller			
Trough Roller			
Lacing	\boxtimes		
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			

Overall condition of conveyor looks to be in working condition. Belt still has wear life before replacement is needed. Tracking is good.



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Item #	6	Motor #	M-6
Description:	Large Plastic Transfer	Conveyor, Fl	at slider C/W 220 Rubber Flat
	Belt		

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley		\boxtimes	
Return Roller			
Support Roller			
Trough Roller			
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



Pulley needs to be replaced. Belt is not tracked properly. Lacing is damaged and caused belt to tear.

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Wire wrapped around pulley and shaft.

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Item #	7	Motor #	M-7
Description:	Existing OCC Screen, 2	Section RH I	Orives Position 9001275

Component	Good Condition	Needs Repair	N/A
Bearings			
Chains			
Sprockets			
Discs			
Motor/Gearbox			
Oilers		\boxtimes	



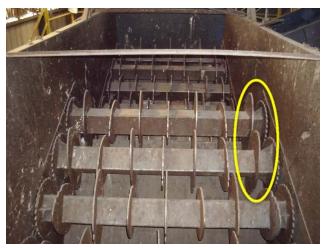
Chains need to be replaced.



Gearbox is leaking, seal needs to be replaced.

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Rotors need to be clocked at 90 degrees.



Shafts should be better aligned to normalize disk spacing.

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Item #	8	Motor #	M-8
Description:	Existing Large OCC Tr Rubber Flat Belt 2716		yor, Flat slider C/W 220

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley		\boxtimes	
Return Roller			
Support Roller			\boxtimes
Trough Roller			
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



Guarding needs to be replaced.

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Belt and lacing is torn and needs to be replaced.



Return rollers are worn and needs to be replaced.

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Item #	9A	Motor #	M-9A
Description:	Existing Large OCC So	rt Conveyor, 1	Existing Shorten 23FT

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley			
Return Roller		\boxtimes	
Support Roller			
Trough Roller			
Lacing			
Tracking			
Tensioning			
Guarding		\boxtimes	
Bearings			
Belt			
Gearmotor			



Belt is worn but serviceable.

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Guarding needs to be replaced.

All return rollers need to be replaced. Pulleys and bearings need to be replaced due to being worn.

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Item #	9B	Motor #	M-9B
Description:		onveyor, Flat	Slider C/W 220 Rubber
	Cleated Belt		

Component	Good Condition Needs Repair		N/A
Head Pulley		\boxtimes	
Tail Pulley		\boxtimes	
Return Roller			
Support Roller			\boxtimes
Trough Roller			
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



Return Rollers show signs of wear and should be replaced. Head and Tail Pulley needs to be replaced. Overall condition of conveyor is fair, cleaning required for optimal work.

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Item #	10A	Motor #	M-10A	
Description:	OCC Bunker Conveyor, 9" Pitch, 3" Roller Chain Steel Belt,			
	Reversing			

Component	Good Condition	Needs Repair	N/A
Head Pulley			
Tail Pulley			
Return Roller			
Support Roller			
Trough Roller			
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



Conveyor is in good condition. Cleaning required for optimal use.

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Item #	11	Motor #	M-11	
Description:	Existing Mixed (OCC Unders) Corrugated Side Wall Belt Transfer			
	Conveyor			

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley		\boxtimes	
Return Roller			
Support Roller			\boxtimes
Trough Roller			
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



Above picture shows the condition of the belt tracking. It also indicates the condition of the pulley and the shaft being wrapped.

Return rollers are in good condition. Recommendation is to replace both pulleys, belt, gearmotor and bearings.

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Item #	12	Motor #	M-12
Description:	Existing Mixed Transf	er Conveyor,	Flat Slider C/W 220 Rubber
	Flat Belt		

Component	Good Condition	Needs Repair	N/A
Head Pulley			
Tail Pulley			
Return Roller			
Support Roller			
Trough Roller			
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



Picture shows belt tracking being off.

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Guarding needs to be replaced.

Belt is worn but serviceable.

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Item #	13	Motor #	M-13
Description:	Scalping Screen Pre-So	ort	

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley		\boxtimes	
Return Roller		\boxtimes	
Support Roller			
Trough Roller			
Lacing		\boxtimes	
Tracking		\boxtimes	
Tensioning			
Guarding		\boxtimes	
Bearings			
Belt		$oxed{oxed}$	
Gearmotor			



Shafts are wrapped and needs to be cleaned.

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Shaft is wrapped, belt tracking needs to be corrected.



Return rollers need to be cleaned.

Conveyor is serviceable in current condition. Recommendation is to clean all components for optimal use. Pulleys and bearings are worn and need to be replaced.

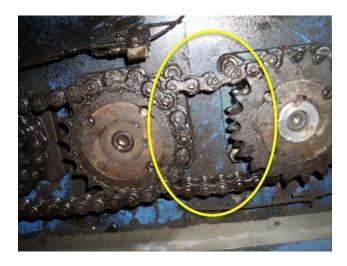
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Item #	14	Motor #	M-14	
Description: Scalping Screen, 3 Section LH Drives Position 9025250				

Component	Good Condition	Needs Repair	N/A
Bearings		\boxtimes	
Chains		\boxtimes	
Sprockets			
Discs			
Motor/Gearbox			
Oilers		\boxtimes	



Shafts need wrapping removed and cleaned.



Chains are worn and needs to be replaced.

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Gearboxes on all decks are leaking and needs to be replaced.

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Item #	15	Motor #	M-15
Description:	1 0	•	Conveyor, Flat Slider C/W l – Push Button E-Stops, One

Component	Good Condition	Needs Repair	N/A
Head Pulley			
Tail Pulley			
Return Roller			
Support Roller			\boxtimes
Trough Roller			
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



Shafts need to be cleaned off.

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Belt tracking needs to be corrected.



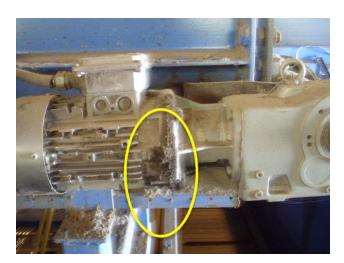
Return rollers are showing signs of wear, but are still serviceable.

Pulleys and bearings are worn and need to be replaced.

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Item #	16A	Motor #	M-16A		
Description:	Small OCC Transfer Conveyor, Flat Slider C/W 220 Rubber Flat				
	Belt				

Component	Good Condition	Needs Repair	N/A
Head Pulley			
Tail Pulley			
Return Roller			
Support Roller			
Trough Roller			
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



Gearmotor is leaking.

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Bearings are worn and needs to be replaced.

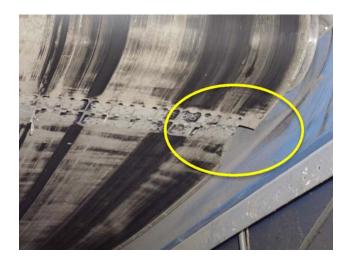
Pulleys need to be replaced.

Belt is in serviceable condition.

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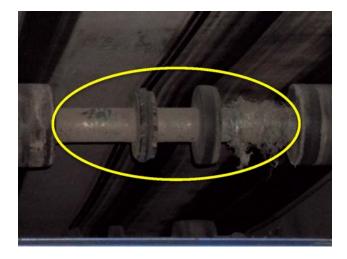
Item #	16B	Motor #	M-16B
Description:	Trash Transfer Conve	yor, Flat Slide	r C/W 220 Rubber Flat Belt

Component	Good Condition	Needs Repair	N/A
Head Pulley			
Tail Pulley			
Return Roller			
Support Roller			
Trough Roller			
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



Belt and lacing are torn and needs to be replaced.

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Return rollers are worn and needs to be replaced.



Gearmotor is leaking.

Pulleys and bearings show signs of wear and needs to be repaired.

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Item #	16C	Motor #	M-16C
Description:	Trash Transfer Conve	yor, Flat Slide	r C/W 220 Rubber Flat Belt

Component	Good Condition	Needs Repair	N/A
Head Pulley			
Tail Pulley			
Return Roller			
Support Roller			
Trough Roller			
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



Disconnect switch is missing.

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Return rollers are worn and need to be replaced.



Gearmotor is leaking and needs to be replaced.

Pulleys and bearing are worn and need to be replaced.

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Item #	17	Motor #	M-17			
Description:	ONP Newscreen, Singl	ONP Newscreen, Single Deck RH Drive 9022179				

Component	Good Condition	Needs Repair	N/A
Bearings		\boxtimes	
Chains		\boxtimes	
Sprockets		\boxtimes	
Discs			
Motor/Gearbox			
Oilers			

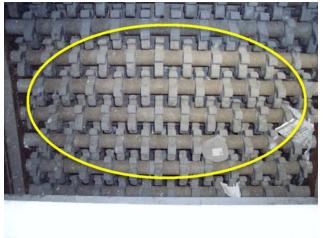


Chains are stretched/worn, full replacement needed. Sprockets are worn, replacement needed.



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Hydraulics are leaking, replacement needed.



Discs are worn, full deck replacement needed.



Bearings are worn and need to be replaced.

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Item #	18	Motor #	M-18
Description:	Large Fiber Transfer ((Newscreen Overs)	Conveyor, Flat	t Slider 220 Rubber Flat Belt

Component	Good Condition	Needs Repair	N/A
Head Pulley			
Tail Pulley			
Return Roller			
Support Roller			
Trough Roller			
Lacing			
Tracking			
Tensioning		\boxtimes	
Guarding			
Bearings		\boxtimes	
Belt			
Gearmotor			



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Belt is torn, laced improperly. Replacement recommended.





Return rollers are worn and need replacement.

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Gearmotor is leaking, replacement needed.

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Item #	20	Motor #	M-20
Description:	Large Fiber Sort Conv	eyor, Flat Slid	ler 220 Cleat Top Rubber Belt

Component	Good Condition	Needs Repair	N/A
Head Pulley			
Tail Pulley			
Return Roller			
Support Roller			
Trough Roller			
Lacing			
Tracking			
Tensioning		\boxtimes	
Guarding			
Bearings		\boxtimes	
Belt			
Gearmotor			



Picture above shows wrapped shaft, cleaning required. Material is building up under belt, causing more damage.

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Gearmotor is leaking. Replacement required.



Return rollers are worn and wrapped, replacement required.

Belt needs to be replaced and tracked properly. Both head and tail bearings need to be replaced.

Flow Guides need to be repaired.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	21	Motor #	M-21
Description:	CPScreen Feed Convey	yor, Flat Slide	r C/W 220 Rubber Cleated
	Belt		

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley		\boxtimes	
Return Roller			
Support Roller			\boxtimes
Trough Roller			
Lacing		\boxtimes	
Tracking			
Tensioning			
Guarding			
Bearings			
Belt		$oxed{oxed}$	
Gearmotor		\boxtimes	



Return rollers need to be replaced. Some return rollers are missing/omitted.

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Belt is torn and needs to be replaced. Tensioning is lacking.



Gearmotor is leaking and needs to be replaced.

Additionally, both pulleys and bearings are worn and need to be replaced.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	22	Motor #	M-22
Description:	CPScreen, Single Deck	RH Drive	

Component	Good Condition	Needs Repair	N/A
Bearings		\boxtimes	
Chains			
Sprockets		\boxtimes	
Discs		\boxtimes	
Motor/Gearbox		\boxtimes	
Oilers		\boxtimes	



All bearings are worn and need to be replaced.



All discs are worn and need to be replaced.

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Chains are stretched and sprockets are worn, replacement required.





Gearmotors are leaking, replacement required.

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Item #	23	Motor #	M-23
Description:	Mid Fiber Transfer, Fl	at Slider 220	Rubber Flat Belt (CPScreen
	Overs)		

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley		\boxtimes	
Return Roller			
Support Roller			\boxtimes
Trough Roller			
Lacing		\boxtimes	
Tracking			
Tensioning			
Guarding			
Bearings			
Belt		$oxed{oxed}$	
Gearmotor		\boxtimes	



Return rollers are wrapped and worn, replacement required.

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Bearing is worn, tracking of belt veers to the right, replacement required.



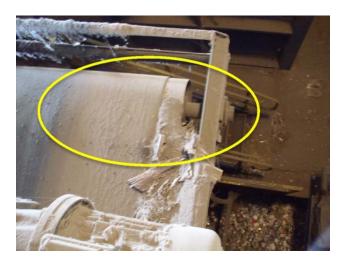
Motor is filled dust and surrounded by debris, replacement required.

Additionally, both pulleys and bearings associated are worn and need replacement. Belt is worn and should be replaced.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	24	Motor #	M-24
Description:	Existing Middle/Small	Fiber Sort Co	onveyor

Component	Good Condition	Needs Repair	N/A
Head Pulley			
Tail Pulley			
Return Roller			
Support Roller			
Trough Roller			
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



Belt is tracking to the left and is worn, replacement required.

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Return rollers are missing and wrapped where in place. Pictures also indicate the tracking to the left.

Replacement required.



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Bearings are blown and need to be replaced.



Belt is torn, debris is piled up under belt which is causing the tracking to be off and more strain on the belt.

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Item #	26	Motor #	M-26	
Description:	Containers Transfer Conveyor, Slider Bed Rubber Belt			

Component	Good Condition	Needs Repair	N/A
Head Pulley			
Tail Pulley			
Return Roller			
Support Roller			
Trough Roller			
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings		\boxtimes	
Belt			
Gearmotor			



Belt is worn, tracking is off, replacement required.

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Bearing is worn, replacement required.



Guarding needs to be repaired/replaced.

Additionally, return rollers need to be replaced.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	27	Motor #	M-27
Description:	Containers Transfer C	onveyor, Flat	Slider 220 Rubber Cleated
	Belt		

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley		\boxtimes	
Return Roller		\boxtimes	
Support Roller			
Trough Roller			
Lacing		\boxtimes	
Tracking		\boxtimes	
Tensioning		\boxtimes	
Guarding		\boxtimes	
Bearings		\boxtimes	
Belt			
Gearmotor			



Gearmotor is leaking, replacement required.

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Belt tracking is pulling to the left, belt is worn and needs to be replaced.



Return rollers are worn and need to be replaced.

Bearings and pulleys are worn and need to be replaced.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	28	Motor #	M-28
Description:	Fiber Transfer Revers	ible conveyor	r, Flat Slider CW 220 Rubber
	"V" Groove Cleat Top I	Belt	

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley		\boxtimes	
Return Roller			
Support Roller			\boxtimes
Trough Roller			
Lacing		\boxtimes	
Tracking			
Tensioning			
Guarding			
Bearings			
Belt		$oxed{oxed}$	
Gearmotor		\boxtimes	



Bearings are worn, replacement required.

Additionally, with no pictures, belt is and lacing is torn, both pulleys are worn, return rollers are omitted and the gearmotor is leaking. Replacement of all components required.

Company/Dept.: CP MFG / Custo	omer Service	Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	29	Motor #	M-29
Description:	Glass Breaker, 3 Deck	RH Drive Pos	ition

Component	Good Condition	Needs Repair	N/A
Bearings		\boxtimes	
Chains		\boxtimes	
Sprockets			
Discs			
Motor/Gearbox			
Oilers		\boxtimes	



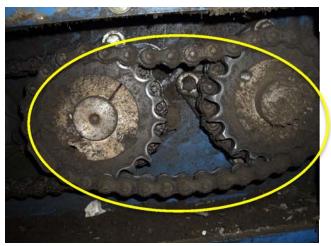
All bearings are worn, replacement required.



Safety device has been removed.

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The above pictures show the excessive grease/oil from bearings that are worn, chains are stretched and worn, sprockets are worn, replacement of all components required.



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Safety device has been removed. Not OSHA standards, replacement required.



Gearmotor is leaking, replacement required.

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Item #	30	Motor #	M-30
Description:	ADS Feed Conveyor, F	lat Slider C/W	V 220 Rubber Staggered
	Cleated Belt		

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley		\boxtimes	
Return Roller			
Support Roller			\boxtimes
Trough Roller			
Lacing		\boxtimes	
Tracking			
Tensioning			
Guarding			
Bearings			
Belt		$oxed{oxed}$	
Gearmotor		\boxtimes	



Belt is worn, cleats are barely visible, replacement required.

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Gearmotor is leaking, replacement required.



Head pulley lagging is torn, bearing on head is blown, debris has built up, replace both pulleys and bearings.

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Return rollers are worn and some are omitted. Replacement required. \\



Belt tracking and tensioning completely off to the right.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	31A	Motor #	M-31A
Description:	ADS		



Guards are omitted/missing.

Bearings are worn and need to be replaced.

Equipment needs a good cleaning to enhance functionality.

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Item #	31B	Motor #	M-31B
Description:	ADS		



Equipment needs much work to be fully functional. Bearings needs to be replaced, proper cleaning required, guards are also omitted/missing.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	32	Motor #	M-32
Description:	Fiber Transfer Convey	or, Flat Slide	r 220 Rubber Cleated Belt

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley		\boxtimes	
Return Roller		\boxtimes	
Support Roller			\boxtimes
Trough Roller			
Lacing		\boxtimes	
Tracking		\boxtimes	
Tensioning		\boxtimes	
Guarding		\boxtimes	
Bearings		\boxtimes	
Belt		\boxtimes	
Gearmotor		\boxtimes	



Above picture indicates a severely worn belt, pulley and bearing. Replace all components.

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Tracking is to the right, belt is worn.



Gearmotor is leaking. It is held stable by zip ties. Replacement required.

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Return rollers are worn, replacement required.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	33	Motor #	M-33			
Description:	Fiber Transfer Conveyor, Flat Slider 220 Rubber Cleated Belt					

Component	Good Condition	Needs Repair	N/A
Head Pulley			
Tail Pulley			
Return Roller			
Support Roller			
Trough Roller			
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



Bearings are worn/broken, replacement required.

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Picture shows a severely worn pulley and belt tracking veering off. Pulleys to be replaced.



Return rollers are worn and wrapped. Replacement required.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	34	Motor #	M-34		
Description:	ADS Feed Conveyor, Flat Slider C/W 220 Rubber Staggered				
	Cleated Belt (CP Scree	n Unders)			

Component	Good Condition	Needs Repair	N/A
Head Pulley			
Tail Pulley		\boxtimes	
Return Roller			
Support Roller			\boxtimes
Trough Roller			
Lacing		\boxtimes	
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



Belt is torn and tracking is veering to the left. Replacement required.

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Picture indicates a pulley worn, replacement required. Bearing is worn as well, replacement required.





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Return rollers are worn, replacement required.



Lagging on pulley is worn, replacement required.



Gearmotor is leaking, replacement required.

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Item #	35	Motor #	M-35
Description:	ADS		



 $Guards\ are\ omitted/missing,\ motor\ is\ leaking,\ replacement\ required.$

Company/Dept.: CP MFG / Customer Service		Title: System Audit		Document Number: Audit	
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	36	Motor #	M-36
Description:	Fiber Transfer Convey	or, Flat Slide	r 220 Rubber Cleated Belt

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley			
Return Roller		\boxtimes	
Support Roller			
Trough Roller			\boxtimes
Lacing			
Tracking		\boxtimes	
Tensioning			
Guarding			
Bearings			
Belt		\boxtimes	
Gearmotor		X	



Severely wrapped head shaft, belt tracking is off, gearmotor is leaking. Replace all components.

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Belt is torn, lacing is ripped, replacement required.



Bearing is worn, guarding is omitted, replacement required.

Item #	37	Motor #	M-37

Company/Dept.: CP MFG / Customer Service		Title: System Audit		Document Number: Audit	
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Description: Fiber Transfer Conveyor, Flat Slider 220 Rubber Cleated Belt

Component	Good Condition	Needs Repair	N/A
Head Pulley			
Tail Pulley			
Return Roller			
Support Roller			
Trough Roller			
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



Guarding has been removed and left open. Pulleys are exposed, shows signs of severe wear, replacement required.

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Return rollers are worn and need to be replaced. Picture also indicates a torn and severely worn belt, replacement required.



Gearmotor is not secured safely and is leaking, replacement required.

Both pulleys and bearings to be replaced on conveyor. Lacing on belt is ripped, belt is torn. Replace all components.

Company/Dept.: CP MFG / Customer Service		Title: System Audit		Document Number: Audit	
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	38	Motor #	M-38
Description:	Existing Trash Bunker	Conveyor – l	By Others

Component	Good Condition	Needs Repair	N/A
Head Pulley			
Tail Pulley			
Return Roller			
Support Roller			
Trough Roller			
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			





Company/Dept.: CP MFG / Cust	omer Service	Title: System Audit		Document Nu	mber: Audit
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Bearings are blown, replacement required.



Power unit is filled with debris, replacement required.

Additionally, both head and tail pulleys need to be replaced. Belt is worn and replacement is required.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	39	Motor #	M-39
Description:	Existing Small OCC Bu	nker Conveyo	or – By Others

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley			
Return Roller			\boxtimes
Support Roller			\boxtimes
Trough Roller			\boxtimes
Lacing			\boxtimes
Tracking			\boxtimes
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor		X	



Belt needs to be replaced, tensioning is off as well.

Company/Dept.: CP MFG / Customer Service		Title: System Audit		Document Number: Audit	
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Both head and tail pulley and bearings are severely worn, replacement required.



Belt is torn/worn, replacement required.



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Disconnect has been disabled.

Company/Dept.: CP MFG / Customer Service		Title: System Audit		Document Number: Audit	
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	40	Motor #	M-40
Description:	Existing OMP Bunker	Conveyor – B	y Others

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley			
Return Roller			
Support Roller			
Trough Roller			
Lacing			
Tracking			\boxtimes
Tensioning		\boxtimes	
Guarding		\boxtimes	
Bearings		\boxtimes	
Belt		\boxtimes	
Gearmotor		oximes	



Bearings need to be replaced.

Both head and tail pulleys, all bearings, gearmotor and belt need to be replaced. Conveyor needs to be cleaned to function optimally.

Company/Dept.: CP MFG / Custo	omer Service	Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	41	Motor #	M-41
Description:	Office Paper Bunker C	onveyor - Exi	sting

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley			
Return Roller			
Support Roller			
Trough Roller			
Lacing			
Tracking			
Tensioning		\boxtimes	
Guarding			
Bearings			
Belt			
Gearmotor			



Bearings and gearmotor need to be replaced.

Company/Dept.: CP MFG / Customer Service		Title: System Audit		Document Number: Audit	
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	



Cover has been removed from wiring. Unsafe exposure.

Belt is worn, cross slats are bent, replacement required.

Company/Dept.: CP MFG / Customer Service		Title: System Audit		Document Number: Audit	
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	42	Motor #	M-42		
Description:	Existing ONP Paper Bunker Conveyor				

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley			
Return Roller			\boxtimes
Support Roller			\boxtimes
Trough Roller			\boxtimes
Lacing			\boxtimes
Tracking			\boxtimes
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor		X	



Conveyor needs to be cleaned.

Additionally, both head and tail pulleys, bearings and gearmotor are worn and needs to be replaced.

Company/Dept.: CP MFG / Customer Service		Title: System Audit		Document Number: Audit	
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	43	Motor #	M-43
Description:	ONP Paper Bunker Co	nveyor - Exis	ting

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley			
Return Roller			\boxtimes
Support Roller			\boxtimes
Trough Roller			\boxtimes
Lacing			\boxtimes
Tracking			\boxtimes
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor		X	



Guarding has been removed.

Conveyor needs to be cleaned for optimal use. All components are worn and needs to be replaced.

Company/Dept.: CP MFG / Customer Service		Title: System Audit		Document Number: Audit	
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	44	Motor #	M-44		
Description:	Containers Transfer Conveyor, Flat Roller 4 Ply 150, Corrugated				
	Cleated Cross Rigid (F	rom Double A	ADS)		

Component	Good Condition	Needs Repair	N/A
Head Pulley			
Tail Pulley		\boxtimes	
Return Roller			
Support Roller		\boxtimes	
Trough Roller			
Lacing		\boxtimes	
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



Gearmotor is leaking. Torque arm needs to be replaced as motor is held up by a tie down.

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Belt is worn and objects are protruding through cleats, replacement required.



Belt tensioning is off, return rollers required to enhance optimal use.



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Both head and pulleys and bearings are worn and need replacement.

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	GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	45	Motor #	M-45
Description:	Containers Transfer C	onveyor, Flat	Slider 220 Rubber Flat Belt

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley			
Return Roller			
Support Roller			\boxtimes
Trough Roller			
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



Return rollers are worn and need to be replaced.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	



Head and tail pulley needs to be replaced. Belt tracking is pulling to the right.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	46A	Motor #	M-46A
Description:	Containers Transfer C	onveyor, Flat	Slider 220 Rubber Cleated
	Belt – 3" Cleats		

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley		\boxtimes	
Return Roller			
Support Roller			
Trough Roller			
Lacing		\boxtimes	
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



Picture shows belt tracking to the right, lacing and belt torn. Pulleys and bearings need to be replaced.

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Condition of bearing is worn/blown. Replacement required.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

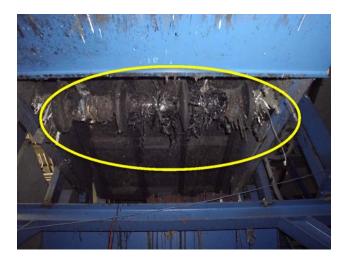
Item #	46B	Motor #	M-46B		
Description:	Containers Transfer Conveyor, Flat slider 220 Rubber Cleated				
	Belt, SS Head				

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley			
Return Roller			
Support Roller			\boxtimes
Trough Roller			
Lacing		\boxtimes	
Tracking			
Tensioning			
Guarding			
Bearings			
Belt		$oxed{oxed}$	
Gearmotor			



Plywood installed as belly pans, removal required.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	



 $Return\ rollers\ are\ worn/omitted\ in\ places.\ Replacement\ required.$



Belt is worn and need to be replaced. Missing cleats.

Company/Dept.: CP MFG / Custo	omer Service	Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	47	Motor #	M-47
Description:	MSS Feed Accelerating	g Conveyor, F	lat Slider 220 Rubber Belt

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley		\boxtimes	
Return Roller		\boxtimes	
Support Roller			
Trough Roller			
Lacing		\boxtimes	
Tracking		\boxtimes	
Tensioning			
Guarding		\boxtimes	
Bearings			
Belt		$oxed{oxed}$	
Gearmotor			



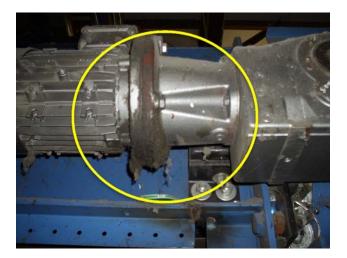
Belt is worn, replacement required. Tracking is off. Pulleys are worn. Bearings are worn.

Replacement of pulleys and bearings recommended.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	



 $Return\ rollers\ are\ worn, replacement\ required.$



Gearmotor is leaking, replacement required.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	49	Motor #	M-49
Description:	Steel Transfer Convey	or, Flat Slider	· 220 Rubber Flat Belt

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley		\boxtimes	
Return Roller		\boxtimes	
Support Roller			\boxtimes
Trough Roller			
Lacing		\boxtimes	
Tracking		\boxtimes	
Tensioning		\boxtimes	
Guarding		\boxtimes	
Bearings		\boxtimes	
Belt		\boxtimes	
Gearmotor		\boxtimes	



Picture shows severely worn pulleys and bearings.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	





All components on this conveyor need replacement. Both pulleys, bearings, belt, gearmotor, return rollers. Replacement of conveyor recommended.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	50A	Motor #	M-50A
Description:	Aladdin Single Eject		



V-Belts need to be replaced.



Bearings need to be replaced.

Unit needs to be cleaned, belt needs to be replaced.

Company/Dept.: CP MFG / Customer Service		Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	50B	Motor #	M-50B
Description:	Air Rotary Screw Com	pressor - Kae	ser



Cleaning required.

Company/Dept.: CP MFG / Customer Service		Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	51	Motor #	M-51
Description:	PET QC Conveyor, Slice	ler Bed Rubbe	er Cleated Belt

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley			
Return Roller		\boxtimes	
Support Roller			
Trough Roller			\boxtimes
Lacing			
Tracking		\boxtimes	
Tensioning			
Guarding			
Bearings			
Belt		\boxtimes	
Gearmotor		×	



Guarding has been removed. Replacement required.

Company/Dept.: CP MFG / Custo	omer Service	Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	



Return rollers are wrapped and worn, replacement required.



Pulley shafts are wrapped, bearings are worn, replacement of all required.

Company/Dept.: CP MFG / Customer Service		Title: System Audit		Document Number: Audit	
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	53	Motor #	M-53
Description:	Pass Fraction Transfer	r Conveyor, F	lat Slider 220 Rubber Cleated
_	Belt		

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley		\boxtimes	
Return Roller			
Support Roller			
Trough Roller			
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings		\boxtimes	
Belt			
Gearmotor			



Return rollers are wrapped, cleaning required.

Bearings need to be replaced, head and tail pulley are worn, replacement required.

Company/Dept.: CP MFG / Customer Service		Title: System Audit		Document Number: Audit	
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	54	Motor #	M-54			
Description:	Containers Sort Conve	Containers Sort Conveyor, Flat slider 220 Rubber Belt				

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley			
Return Roller			
Support Roller			\boxtimes
Trough Roller			
Lacing			
Tracking			
Tensioning		\boxtimes	
Guarding			
Bearings		\boxtimes	
Belt			
Gearmotor			



Belt is torn, lacing torn, replacement required.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	



Tensioning is off, belt is not supported by any rollers.



Return rollers are worn, replacement required.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	



Gearmotor is leaking, replacement required.

Replace all components on conveyor to be functional.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	56	Motor #	M-56			
Description:	Aluminum QC Conveyor, Slider Bed Rubber Belt					

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley			
Return Roller			
Support Roller			\boxtimes
Trough Roller			
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



 $Gearmotor\ is\ leaking, replacement\ required.$

Company/Dept.: CP MFG / Customer Service		Title: System Audit		Document Number: Audit	
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	



Bearings are worn, replacement required.

Pulleys are worn, replacement required. Return rollers are worn, replacement required. All other components on conveyor are in need of replacement.

Company/Dept.: CP MFG / Customer Service		Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	57	Motor #	M-57
Description:	Aluminum Silo Blowe	r	



Cleaning required.

Company/Dept.: CP MFG / Customer Service		Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	58	Motor #	M-58			
Description:	Eddy Current Pass Fraction QC Conveyor, Slider Bed Rubber Belt					
	LH Drive					

Component	Good Condition	Needs Repair	N/A
Head Pulley			
Tail Pulley		\boxtimes	
Return Roller			
Support Roller			\boxtimes
Trough Roller			
Lacing		\boxtimes	
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



Belt is torn, replacement required.

Company/Dept.: CP MFG / Customer Service		Title: System Audit		Document Number: Audit	
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	



Pulleys are wrapped, replacement required.

Return rollers omitted. Replacement required. All other components on conveyor are in need of replacement.

Company/Dept.: CP MFG / Customer Service		Title: System Audit		Document Number: Audit	
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	59	Motor #	M-59
Description:	Trash Transfer Conve	yor, Flat Slide	r 220 Rubber Cleated Belt

Component	Good Condition	Needs Repair	N/A
Head Pulley			
Tail Pulley			
Return Roller		\boxtimes	
Support Roller			
Trough Roller			\boxtimes
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor		$oxed{\mathbb{Z}}$	



Bearings are worn/blown, replacement required.

Company/Dept.: CP MFG / Cust	omer Service	Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	



Recommendation is to clean debris as to not obstruct any components from functioning at optimal pace.



Belt is torn in multiple places, replacement required.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	



Return rollers are worn, replacement required.

Company/Dept.: CP MFG / Cust	omer Service	Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	61	Motor #	M-61		
Description:	Glass Transfer Conveyor (GB Unders), Troughed Roller 2 Ply,				
	Rubber 220 Belt				

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley		\boxtimes	
Return Roller			
Support Roller			\boxtimes
Trough Roller			
Lacing		\boxtimes	
Tracking			
Tensioning			
Guarding			
Bearings			
Belt		$oxed{oxed}$	
Gearmotor		\boxtimes	



Bearings are worn/blown, replacement required.

Company/Dept.: CP MFG / Cust	omer Service	Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	



Tensioning is lacking, return rollers omitted. Replacement of rollers required.

Both pulleys on conveyor are showing signs of wear, replacement required. Gearmotor is in worn condition and should be replaced as well.

Company/Dept.: CP MFG / Cust	omer Service	Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	62	Motor #	M-62		
Description:	Glass Transfer Conveyor, Flat Roller 4 Ply 150, Corrugated				
	Cleated Cross Rigid Be	elt			

Component	Good Condition	Needs Repair	N/A
Head Pulley			
Tail Pulley			
Return Roller			
Support Roller			
Trough Roller			
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



Return rollers are omitted, wood used instead. Immediate replacement required.

Company/Dept.: CP MFG / Custo	omer Service	Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	



Pulley is worn, bearing is worn, guarding is damaged, replacement of all required.

Company/Dept.: CP MFG / Cust	omer Service	Title: System Audit		Document Nu	mber: Audit	
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1		

Item #	63A	Motor #	M-63A
-	Glass Transfer Convey Cleated Cross Rigid Be	•	er 4 Ply 150, Corrugated

Component	Good Condition	Needs Repair	N/A
Head Pulley			
Tail Pulley		\boxtimes	
Return Roller			
Support Roller			\boxtimes
Trough Roller			
Lacing		\boxtimes	
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



Pulleys, bearings and guarding is damaged. Replacement of all components required.

Company/Dept.: CP MFG / Cust	omer Service	Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	



Return rollers omitted, replacement required.

Company/Dept.: CP MFG / Custo	omer Service	Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. Au		Date: 2/9/2017	Rev 1	

Item #	63B	Motor #	M-63B
Description:	Glass Transfer Convey	or, Troughed	Roller 2 Ply, Rubber 220 Belt

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley		\boxtimes	
Return Roller		\boxtimes	
Support Roller		\boxtimes	
Trough Roller		\boxtimes	
Lacing		\boxtimes	
Tracking		\boxtimes	
Tensioning			
Guarding		\boxtimes	
Bearings			
Belt			
Gearmotor			





Company/Dept.: CP MFG / Cust	omer Service	Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Belt is torn, replacement required.

All components on conveyor is worn or damaged. Both pulleys, all bearings, gearmotor and belt need to be replaced.

Company/Dept.: CP MFG / Cust	omer Service	Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	64	Motor #	M-64
Description:	Glass Clean Up System	, RH 9010150	0

Component	Good Condition	Needs Repair	N/A
Rotary Valve Vanes			
Cyclone Liners			
Blower Impellor Blade		\boxtimes	
Sock			
Ducting		\boxtimes	
Separation Chamber		\boxtimes	



 $Gearmotor\ is\ leaking, replacement\ required.$



Liners need to be replaced.

Company/Dept.: CP MFG / Cust	omer Service	Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. Au		Date: 2/9/2017	Rev 1	



Conveyor pulley shaft is wrapped, bearing and pulley both need to be replaced. Belt is worn and replacement is required.



Return rollers are worn, replacement required.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	







Company/Dept.: CP MFG / Customer Service		Title: System Audit		Document Number: Audit	
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Ducting is held together by wire. Clamp is omitted. Immediate replacement required.

Company/Dept.: CP MFG / Customer Service		Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	65A	Motor #	M-65A		
Description:	Glass Transfer Conveyor, Troughed Roller				

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley		\boxtimes	
Return Roller		\boxtimes	
Support Roller			
Trough Roller			
Lacing		\boxtimes	
Tracking		\boxtimes	
Tensioning			
Guarding		\boxtimes	
Bearings			
Belt		$oxed{oxed}$	
Gearmotor			



Return rollers omitted. Replacement required.

Company/Dept.: CP MFG / Cust	omer Service	Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	





Belt tracking is pulling to the left, pulleys are both damaged beyond repair, replacement of belt, pulleys and bearings recommended.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	



Gearmotor is leaking, replacement required.

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GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	65B	Motor #	M-65B		
Description:	Glass Transfer Conveyor, Troughed Roller				

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley			
Return Roller			
Support Roller			\boxtimes
Trough Roller			
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings		\boxtimes	
Belt			
Gearmotor		\boxtimes	



Pulleys are damaged, replacement of pulleys and bearings recommended. Belt tracking is to the right.

Company/Dept.: CP MFG / Customer Service		Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	



Return rollers are worn, replacement required.



Belt is severely worn, replacement required.

Company/Dept.: CP MFG / Customer Service		Title: System Audit		Document Number: Audit	
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	65C	Motor #	M-65C
Description:	Glass Transfer Convey	or, Troughed	Roller

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley		\boxtimes	
Return Roller		\boxtimes	
Support Roller			
Trough Roller			
Lacing		\boxtimes	
Tracking		\boxtimes	
Tensioning			
Guarding		\boxtimes	
Bearings			
Belt		$oxed{oxed}$	
Gearmotor			



Gearmotor is leaking. Replacement required.

Company/Dept.: CP MFG / Cust	omer Service	Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	



Belt is worn, replacement required.



Return rollers are damaged. Replacement required.



Company/Dept.: CP MFG / Cust	omer Service	Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	



Pulleys and bearings are damaged, replacement required.

Company/Dept.: CP MFG / Cust	omer Service	Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	71	Motor #	M-71			
Description:	Existing Silos And Bunkers Upload Conveyor – Reversed And					
	Extended 19'8"					

Component	Good Condition	Needs Repair	N/A
Head Pulley			
Tail Pulley			
Return Roller			
Support Roller			
Trough Roller			
Lacing		\boxtimes	
Tracking			
Tensioning			
Guarding			
Bearings		\boxtimes	
Belt			
Gearmotor			



Belt is worn, immediate replacement required.

Company/Dept.: CP MFG / Cust	omer Service	Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

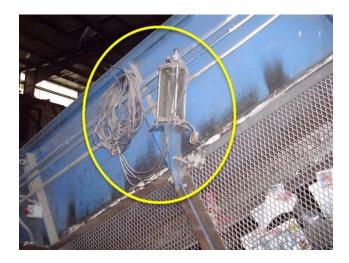


The trash pile up on this conveyor has made it impossible for the technician to do a proper inspection of all components. From the pictures it can be said that this conveyor is in a very worn state and cannot function properly without correction of most components.

Company/Dept.: CP MFG / Custo	omer Service	Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	

Item #	72	Motor #	M-72		
Description:	Existing Baler Feed Conveyor – Relocated and Shortened				

Component	Good Condition	Needs Repair	N/A
Head Pulley		\boxtimes	
Tail Pulley			\boxtimes
Return Roller			
Support Roller			\boxtimes
Trough Roller			\boxtimes
Lacing			
Tracking			
Tensioning			
Guarding			
Bearings			
Belt			
Gearmotor			



Oiler is broken and use has been discontinued. Replacement required. \\

Company/Dept.: CP MFG / Custo	omer Service	Title: System Audit		Document Nu	mber: Audit
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	



Amount of debris pile up has made it impossible for technician to properly inspect all aspects of the conveyor. It is said that the rails/tracks are worn, head shaft is bent and belt is in bad condition.

Replacement of these components would optimize use of conveyor.

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GROUP	Author: M. Augustyn-Morales		Date: 2/9/2017	Rev 1	



Summary

From a mechanical perspective, the equipment cannot perform as designed. Most items are in need of repair for the equipment to continue to function properly well into the future. Maintenance of equipment cannot be seen through a screenshot of this facility. Many items have been omitted or have been repaired by standards not safe for a working environment. The cost of parts and labor to repair this facility to its original state, or to the point of functionality, would be excessive. It is the recommendation that many of the installed equipment be overhauled to newer standards for optimal use and enhanced recovery of materials. Some notable observations as follows:

- Return rollers on most conveyors should be replaced to avoid belt damage, if belts were replaced
- 95% of the belts on equipment are worn beyond optimal function and are in need of repair
- Due to a lack of maintenance, most head and tail shafts have taken on tremendous wrapping, shafts are bent, pulley drums are damaged and replacement of all is required.
- Bearings are damaged which is causing many other components to take on excessive strain to function to the designed capability.
- Because the facility has not been in operation since July 2016, it is recommended that an electrical audit be conducted to determine the extent of damage and/or functionality

Company/Dept.: CP MFG / Customer Service		Title: System Audit		Document Number: Audit	
GROUP	Author: M. A	ugustyn-Morales	Date: 2/9/2017	Rev 1	