

	COMPOSITE TECHNOLOGIES	
	Field Operations	
	Hybrid Reel Break Down Procedure	
Date of Issue	Document Number	Revision Number
June 6, 2023	14-4199	1.1

	T =: 11 0 14. 1	A B E			
Applicable Department:	Field Operations, Warehous				
Job / Task:	Flexpipe Hybrid Reel Break	Down			
Job Titles to Perform Task:	Technicians, Field Technicia	ns, Certified Heavy Machine/Forklift Operator			
First Created By:	Mychal Miles	Title: Senior Field Technician		Date:	June 29, 2020
Last Analysis/Revised By:	Adrian Saldivar	Title: District Supervisor		Date:	Sept 17, 2020
Last Reviewed By:	Jason Correia	Title: Installation Integrity Manager		Date:	September 24, 2020
Last Approved By:	Jason Correia	Title: Installation Integrity Manager		Date:	September 24, 2020
Revision #	Revision Date		Revision Details		Revised By (Name)
1	September 24, 2020	Document put into IFS.		Jason (Correia
1.1	June 6, 2023	Update for Mattr/Flexpipe rebrand.		Shanna	a Grant
Reference Documents:					
Document	Number		Document Title		
PPE Required: Hard Hat, Safe	ety Glasses, Safety Vest, Work	Gloves, Steel-Toed Footwear. Recommended: Hea	aring Protection.		
Tool(s), Equipment & Materia Stacked reels), Banding Mater		Deep Well Socket, ¾ Box End Wrench (or Crescent	Wrench), Center Punch, Hammer, Paint Pen, Step Ladde	er, Bucket (for collecting bolts), Special	ly designed Reel Stacker, Dunnage (for
Applicable OHS Legislation:					

OVERVIEW

To safely breakdown Flexpipe Hybrid Reels to its components for storage and/or delivery. It's recommended to have a minimum of 2 people for this task due to safety concerns.



	COMPOSITE TECHNOLOGIES									
Field Operations										
Hybrid Reel Break Down Procedure										
Date of Issue	Document Number	Revision Number								
June 6, 2023	14-4199	1.1								

PROCEDURE (***Add more sections if needed)

#	Job Task Steps (In Sequence)	Hazard Category	Hazard Description (Potential and Existing)	Who Can Be Harmed?	Risk Type (H/S)	Initial Risk (No Controls)	Existing Control Type	Existing Control Description	Residual Risk (After Control)	Additional Recommendations	
1.	Set up the breakdown area.	Moving Vehicles	Traffic and Pedestrians.	Involved and Approximal Workers	Safety	LoPo	Administrative	Access Control Barrier - Safety cones used to alert individuals of tasks being performed and prevent individuals from entering the area in which reels will be flipped over and stacked.	LoPo		
	Reference Figures for Step 1:										

Details of Step 1: Ensure the area for breakdown has a set perimeter using safety cones or is strictly designated for breakdown.

2.	Flip over the reel.	Nip/Pinch Point	Traffic and Crush/Pinch Points	Involved Workers	Safety	MePo	Administrative	Operator needs to inform ground personnel of actions being taken so that they are aware and can stand back.	LoPo	

Details of Step 2: Use the forklift, or if in the field use heavy machinery, with rated slings and clevis to slowly lift and in a controlled manner flip the reel onto its side. Communication with everyone near area is critical.





	COMPOSITE TECHNOLOGIES									
Field Operations										
Hybrid Reel Break Down Procedure										
Date of Issue Document Number Revision Number										
June 6, 2023	14-4199	1.1								

#	Job Task Steps (In Sequence)	Hazard Category	Hazard Description (Potential and Existing)	Who Can Be Harmed?	Risk Type (H/S)	Initial Risk (No Controls)	Existing Control Type	Existing Control Description	Residual Risk (After Control)	Additional Recommendations
3.	Allow access to the center of the reel.	Sharps	Pinch Points/Sharp Objects	Involved Workers	Safety	LoPo	Administrative	Wear gloves and safety glasses. When lifting out the traverse make sure good lifting techniques are practiced.	LoPo	

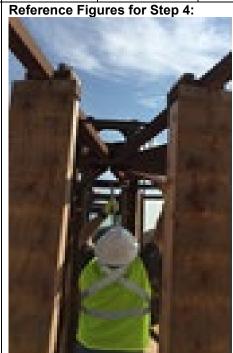
Details of Step 3: Remove (8" x 8") board from traverse. If applicable, unscrew Robertson screws to remove top board. With both hands, lift a single traverse straight up and pull traverse away from reel allowing bottom boards to free from reel to allow personnel entry into reel.





4.	Remove nuts and bolts (top) to disconnect flange from cross-members.	Noise	Pinch Points, Noise, Repetitive Motions, and working over your head.	Involved Workers	Safety	LoPo	Administrative	When a bolt becomes stuck make sure that you are aware of where your hands are while trying to hammer out the bolt.	LoPo	Place all nuts and bolts in bucket to help with clean up at the end.
----	--	-------	--	---------------------	--------	------	----------------	---	------	--

Details of Step 4: Use 3/4" wrench and 3/4" socket to remove upper nuts and bolts (x 4) from cross-members. May need to use the hammer and punch to assist in removing bolts. Only one person inside of reel during removal of nuts and bolts.





	COMPOSITE TECHNOLOGIES									
Field Operations										
Hybrid Reel Break Down Procedure										
Date of Issue	Document Number	Revision Number								
June 6, 2023	14-4199	1.1								

#	Job Task Steps (In Sequence)	Hazard Category	Hazard Description (Potential and Existing)	Who Can Be Harmed?	Risk Type (H/S)	Initial Risk (No Controls)	Existing Control Type	Existing Control Description	Residual Risk (After Control)	Additional Recommendations	
5.	Remove top flange from reel.	Heavy Load	Traffic, Pinch Points, and Pedestrians	Involved and Approximal Workers	Safety	MePo	Administrative	Operator needs to inform ground personnel of actions being taken so that they are aware and can stand back.	LoPo		
						Reference Fig	ures for Step 5:				
Details of Step 5: Use forklift, or if in the field use heavy machinery, with rated slings and clevis to remove top flange. Safely and slowly flip the flange over and place it on the reel stacker and/or on appropriate dunnage for return shipment.									15-9/4 [FB/F] 7/73-F 7/		
6.	Stack the flange (top).	Nip/Pinch Point	Pinch Points, Heavy Moving, and Repetitive Motions	Involved Workers	Safety	MePo	Administrative	When aligning flange make sure to keep your fingers and hands out of the way when rotating to avoid smashing hands.	MePo		
Detai	Details of Step 6: Align flange half cross-member sleeves to ensure alignment of the open section of flange half. Reference Figures for Step 6: Which is a smashing hands. Reference Figures for Step 6:										



	COMPOSITE TECHNOLOGIES									
Field Operations										
Hybrid Reel Break Down Procedure										
Date of Issue Document Number Revision Number										
June 6, 2023	14-4199	1.1								

#	Job Task Steps (In Sequence)	Hazard Category	Hazard Description (Potential and Existing)	Who Can Be Harmed?	Risk Type (H/S)	Initial Risk (No Controls)	Existing Control Type	Existing Control Description	Residual Risk (After Control)	Additional Recommendations	
7.	Remove nuts and bolts (bottom) to disconnect flange from cross-members.	Noise	Pinch Points, Noise, Repetitive Motions, and Working at your feet.	Involved Workers	Safety	LoPo	Administrative	When a bolt becomes stuck make sure that you are aware of where your hands are while trying to hammer out the bolt.	LoPo	Place all nuts and bolts in bucket to help with clean up at the end.	
Details of Step 7: Remove wooden traverses on existing non-stacked reel half, then use 3/4" wrench and 3/4" socket to remove lower nuts and bolts (x 4) from cross-members. May need to use the hammer and punch to assist in removing bolts.						Reference Figures for Step 7:					
8.	Stack wood and steel traverses.	Nip/Pinch Point	Pinch Points, Heavy Lifting, and Repetitive motions.	Involved Workers	Safety	LoPo	Administrative	Use good lifting technique when lifting out the traverses and while lowering them onto the stack.	LoPo		
1	 Details of Step 8: 1. Stack all wooden and steel traverses separately in neat and even stacks (steel traverses will be shipped back to Canada with flanges). 2. The maximum bundling for cross-members should not exceed 100 cross-members per bundle. 										



Identify reel serial numbers.

	COMPOSITE TECHNOLOGIES							
	Field Operations							
	Hybrid Reel Break Down Procedure							
Date of Issue Document Number Revision Number								
June 6, 2023	14-4199	1.1						

			June 6, 2023	5		14-4199			1.1	
#	Job Task Steps (In Sequence)	Hazard Category	Hazard Description (Potential and Existing)	Who Can Be Harmed?	Risk Type (H/S)	Initial Risk (No Controls)	Existing Control Type	Existing Control Description	Residual Risk (After Control)	Additional Recommendations
9.	Stack the flange (bottom).	Nip/Pinch Point	Traffic, Pinch Points, Pedestrians, Heavy Moving, and Repetitive Motions	Involved and Approximal Workers	Safety	MePo	Administrative	Operator needs to inform ground personnel of actions being taken so that they are aware and can stand back. When aligning flange make sure to keep your fingers and hands out of the way when rotating to avoid smashing hands.	MePo	
		1				Reference Figures for Step 9:				
 Details of Step 9: Use forklift, or if in the field use heavy machinery, with rated slings and clevis to move lower flange and place on reel stacker or on appropriate dunnage for return/shipment. Ensure that both top and bottom flanges are kept together during return/shipment. Align flange half cross-member sleeves to ensure alignment of the open section of flange half. The maximum bundling for flanges should not exceed 18 flanges per bundle. 										

Safety

Involved

Workers

Details of Step 10: Using the paint pen, clearly write the serial number of the reel on the outside edge of the reel on both flange ends. Be sure to write the number where it will be visible when the reels are stacked.

Other

Bending over, Slip Trips Falls, and

Repetitive Motions



Administrative

LoPo

LoPo



	COMPOSITE TECHNOLOGIES							
Field Operations								
Hybrid Reel Break Down Procedure								
Date of Issue Document Number Revision Number								
June 6, 2023	14-4199	1.1						

SHUT DOWN

#	Job Task Steps (In Sequence)	Hazard Category	Hazard Description (Potential and Existing)	Who Can Be Harmed?	Risk Type (H/S)	Initial Risk (No Controls)	Existing Control Type	Existing Control Description	Residual Risk (After Control)	Additional Recommendations
1.	Clean up work area.	Repetitive Motions	Slip Trips Falls, Bending over, and Repetitive Motions.	Involved Workers	Safety	LoPo	Administrative	Wear safety glasses and gloves.	LoPo	
Detai	Details of Step 1: Clean up around disassembly area. Ensure all nuts, bolts, boards, and debris are cleaned up. Band all flanges									
togeth	together to secure for transport using banding material.									
2.	Package for shipping.	Manual Handling	Sharp Edges, Steel Bands Under Load, Muscle Strain	Involved Workers	Safety	LoPo	Administrative	Wear safety glasses and gloves.	LoPo	
Detai	Details of Step 2: Band all steel cross-members together to secure for transport using banding material.									

TROUBLE SHOOTING

Malfunction/Issue	Cause	Corrective action
Cross-member bolts cannot be removed manually.	Weathered or stripped bolts.	Use of 1/4" center punch with a hammer is recommended.
Stacked components falling over.	Uneven stacking.	Ensure all disassembled parts are stacked properly. Do not exceed
		maximum bundling recommendations: 18 flanges and 100 cross-members.

MAINTENANCE

#	Job Task Steps (In Sequence)	Hazard Category	Hazard Description (Potential and Existing)	Who Can Be Harmed?	Risk Type (H/S)	Initial Risk (No Controls)	Existing Control Type	Existing Control Description	Residual Risk (After Control)	Additional Recommendations
1.	Forklift/Heavy Machinery	Equipment Failure	Hydraulic Leaks, and Damage to Equipment, Property or Personnel	Involved and Approxim al Workers	Safety	MePo	Administrative	Go over forklift inspection prior to operation.	LoPo	
	Details of Step 1: Ensure forklift/heavy machinery inspection checklist have been completed and proper maintenance have been									
perfor	performed prior to every use.									
2.	Hand and Power Tools	Equipment Failure	Sparks, Fire, and Damage to Equipment, Property or Personnel	Involved Workers	Safety	LoPo	Administrative	Inspect all equipment or tools prior to use.	LoPo	
Detail	Details of Step 2: Ensure all hand and power tools have been visually inspected and proper maintenance have been performed									
prior to every use.										