Ag	Stretch Wrapper SOP			
	Owner: T. Guire	AGCO-W	H-PKG-0011	
	Approved by: B. Aman	Rev: 2	Rev. Date: 05/11/2023	

- 1. **Scope** Used by Packaging & Warehouse personnel operating stretch wrappers or replacing stretch wrap on those machines.
- 2. **Purpose** Provide guidelines & steps for startup, proper pallet wrapping, safe entry, stretch wrap replacement, routine operations, shutdown, & cleaning.
- 3. References N/A

4. Safety Considerations / Requirements

Hazardous Materials	Confined Space Permit Required
CO2/Gas Exposure	Icockout Tagout Procedures Required
	Exclusive Control – as detailed in LOTO Guide – must be performed before entering gate to change rolls of stretch wrap or clear jams.
□ Glass Exposure	□ Substance Containment Procedure Required
Special Safety Equipment Required	□ Other:

- 5. Additional Personal Protective Equipment (PPE) Requirements Assumes Safety Glasses, Safety Shoes, Bump Cap and Hearing Protection are worn in required areas and locations.
 - □ Chemical Suit/Apron & Coat □ Face Shield
 - □ Chemical Gloves □ Goggles
 - Cut Resistant Gloves
 Dust Mask
 - □ Rubber Boots □ Arm Guards
 - \Box Other:
 - 6. Equipment and Materials Personal lock for exclusive control, safety knife, new roll of stretch wrap if replacing wrap.
 - 7. Food Safety Risks and Requirements N/A
 - 8. Quality Considerations Ensure that all pallets are wrapped according to product specifications.

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9. Environmental – N/A

10. Applicable Job Title – Packaging Operator, Warehouse Operator

11. Terminology and Acronyms - SOP = Standard Operating Procedure

12. Special Notes - N/A

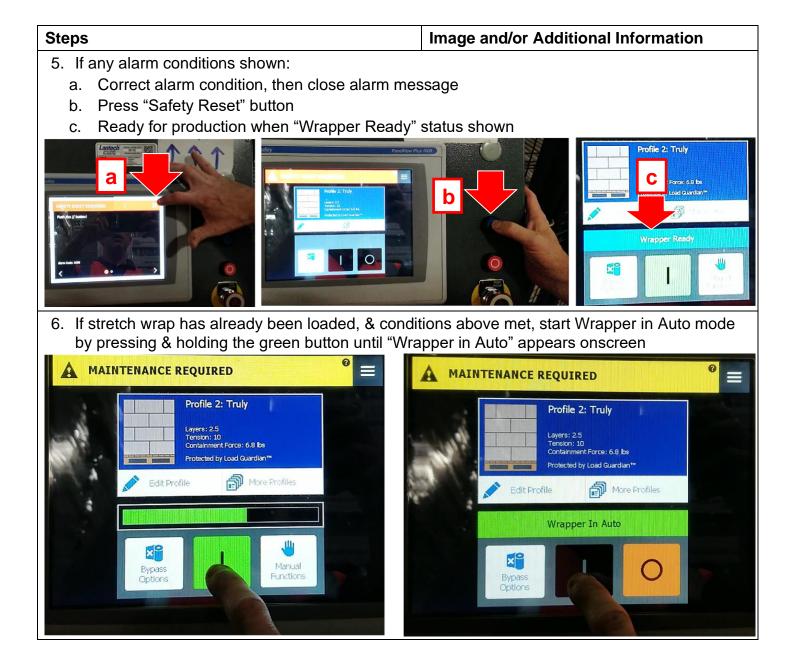
13. Procedure

Steps	Image and/or Additional Information
Startup	
1. If Stretch Wrapper was locked out, restore equip	ment to service using LOTO guide.
 2. If stretch wrap is needed, bring a pallet from the MA aisle racking – making sure that the code on the pallet matches the code on the Kitting Sheet. If you notice that there are 2 or fewer pallets of wrap in the MA aisle, notify Lead or Supervisor so more can be ordered. 	

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Steps	Image and/or Additional Information		
3. Ensure Stretch Wrapper is clean & safe to operation			
 a. Check Wrapper & area within guards is clear b. Ensure Maintenance work is not in progress, lockouts are removed, guard doors are close 	equipment is clear of all tools or obstructions,		
No obstructions to pallet n			
No obstruction to movement of wrap ar	m, film carriage or cutter assembly.		
Wrap Arm Conveyor	Carriage Carriage Carriage Carriage Carriage Carriage Carriage Carriage Carriage		
4. If current "Wrap Profile" on home screen is not correct, press "More Profiles," then select profile			
A MAINTENANCE REQUIRED [®] = Select a Wrap Profile			
Profile 2: Truly Lyner: 2: 5 Containment Force: 6:8 lbs Protected by Load Guardian** Edit Profile Wrapper Ready Wrapper Ready Harus	1: Sam Adams 2: Truly Add a Profile		

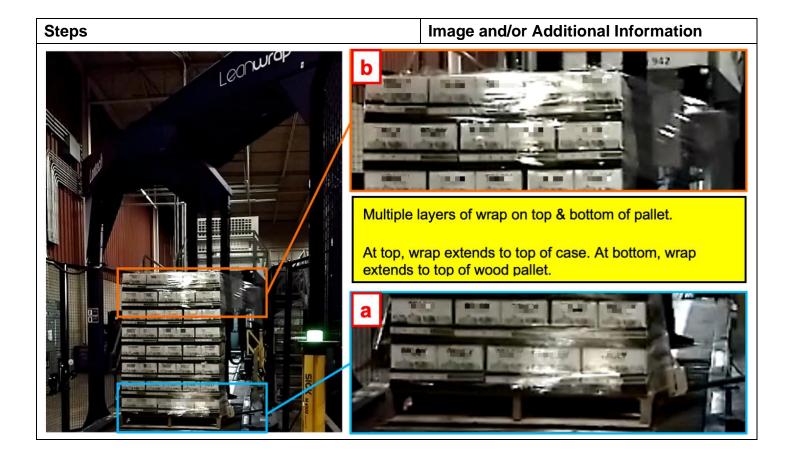
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Steps	Image and/or Additional Information
 7. Examine wrapping process & first few completed pallets that have exited Wrapper discharge & come to a stop on discharge conveyor. Look for: a. Multiple wraps applied to bottom of pallet before it begins traveling to top b. Multiple wraps applied to top of pallet before it travels back to bottom c. Completed wrap not too tight to damage product but keeps product on pallet in a square, upright position that will remain stable when transported by fork truck or stacked in warehouse or in transport trucks. d. Wrap cut cleanly for a smooth separation of pallet. Film tail pushed against wrapped pallet so that no loose end remains that could unravel. If issues arise that operator can't fix, always shut down machine & alert a Lead/Supervisor. A Lead will also determine if a Maintenance Technician is needed. 	Carton layers are square Pallet stands up straight, not leaning Pallet stands up straight, not leaning Not too loose or too tight (damaging cartons) Tail of wrap smoothed against wrap on pallet Bottom of cases & top of wood pallet get multiple wraps

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Steps	Image and/or Additional Information
Entering Guarded Area – REQUIRES EXCLUSIVE	CONTROL
 Cleaning/Jam Clearing/Film Roll Changes all expose operator to deadly force if wrapper is 	
 BEFORE ENTERING, lock & tag machine p open position – which will maintain EXCLI 	
1. To enter guarded area:	
a. Press Stop button, which will light up pushbut	
b. Press illuminated "Request to Exit Gate 1" pu	
c. Slide bolt for door interlock out, away from do	
d. Place lock through bolt & secure lock closed. restart wrapper.	Door interlock cannot make connection to
e. Remove key. You have EXCLUSIVE CONTR	OL.
f. Any other employees who enter must also do	steps d & e.
	<image/>
Loading/Replacing Stretch Wrap	

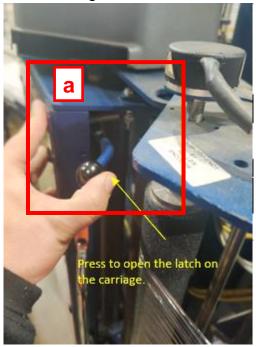
- Complete whenever a roll is completed, or wrap has ripped.
- 1. Prior to beginning a film change, or reloading film after a break, make sure that Film Carriage has come back to Home Position (which should happen automatically). If not, "Jog Home" function may be used.

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Steps Image and/or Additional Information

2. Remove core of old roll of film:

- a. Open latch to carriage.
- b. Roll excess stretch film in carriage back onto cardboard roll before removing.
- c. Note direction arrows point on cardboard roll. New roll will need to be placed with arrows in same direction.
- d. Remove tail from film clamp.
- e. Lift roll from film post.
- f. If film is not tangled around stretch rollers inside film carriage, pull remaining film out.





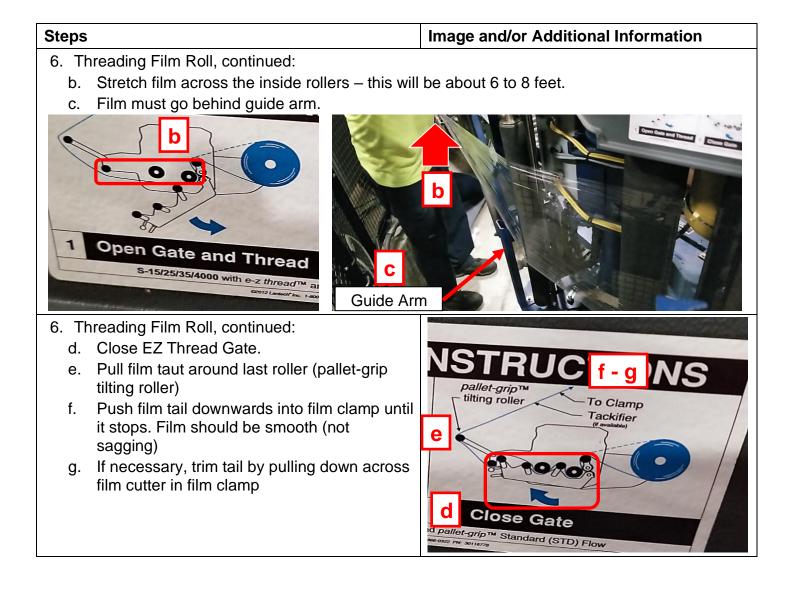
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Steps	Image and/or Additional Information				
3. Before loading a roll onto film post:					
a. Make sure that bottom of cardboard core of film roll is not damaged, as this can lead to difficulty in loading/removing roll from film post, & poor spinning of roll. If damaged, mark & do not use.					
b. If problem found with multiple rolls, determine samples are provided to QA for vendor feedba					
Clean edges on bottom of core Arrows point when looking bottom of	ng at				
4. When using a new roll, check for damage (nicks,	cuts, holes) to outer layers of stretch wrap.				
 Even if no damage seen, it is wise to unwrap 10 feet may need to be removed. 	at least 10 feet. If damage is deep, more than				
 Cut off damaged (or precautionary) layers bef 	ore using roll.				
Removing outer prot payer but continue outside of the rol	ective				

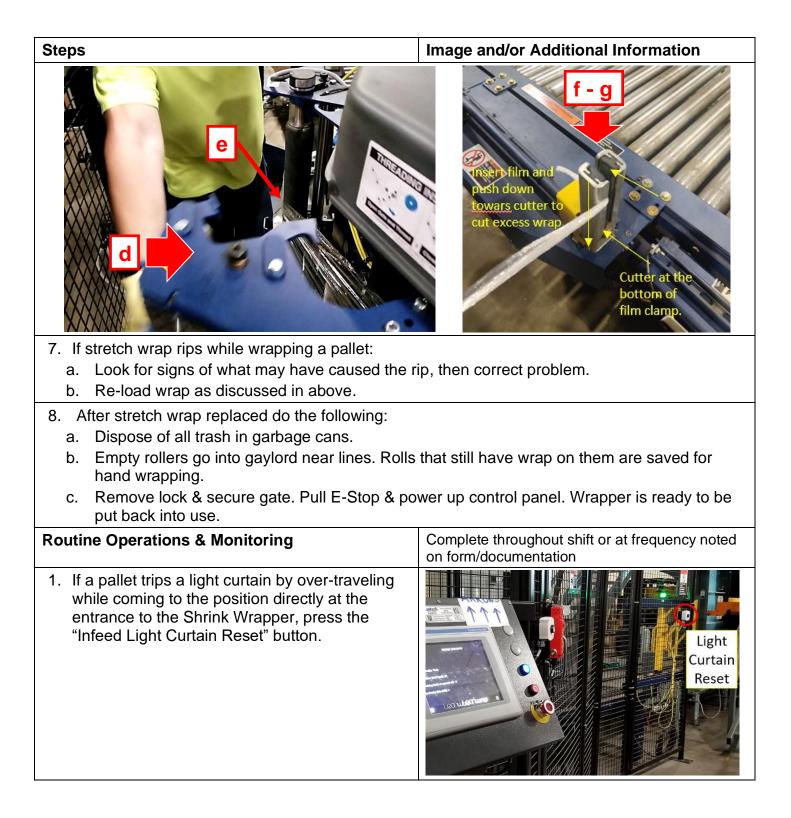
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Steps	Image and/or Additional Information
 5. Load new roll: a. Place new roll onto film post with arrows on roll pointing up (tacky side of film facing pallet) b. Open EZ Thread Gate by releasing latch & pulling gate handle. Open as far as possible. 	b
6. Thread film roll:	
a. Begin by pulling film behind first roller, the pir THREADING () () () () () () () () () ()	voting idler.

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Steps	Image and/or Additional Information
2. If a pallet fails to move forward within Stretch We correct, if possible, without entering gate.	rapper itself, first check for an alarm on HMI &
If necessary to enter gate, follow instructions in a Area," look for a potential cause, & correct it if fo	
 Remove obstructions such as pieces broken 	off from pallets
 If a faulty sensor is the cause, contact Mainter 	enance
 If a pallet fails to move forward along conveyors between Palletizer & Wrapper, or on one of Wrapper's discharge conveyors, use HMI on Palletizer Conveyors panel to troubleshoot & correct situation. If you cannot correct it, contact Maintenance. 	
4. Periodically throughout shift, examine wrapping Step 7 of "Startup" section.	process & completed pallets as discussed in
If issues found:	
a. Shut down immediately & notify your Lead/Si	•
b. Do not start machine in production mode untionc. Remove any cases from line that are defective	•
If issue is impacting product quality or integrity, notify	QA to hold product from last good check.
5. Notify line technician if there is an issue that nee	eds immediate attention or that can be resolved

 Notify line technician if there is an issue that needs immediate attention or that can be resolved quickly. If line technician cannot repair immediately, complete a Maintenance Work request prior to end of shift.

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Steps	Image and/or Additional Information	
 6. Monitor area continually for safety to ensure there are no hazards (slipping, tripping or otherwise). Before beginning any non-routine tasks, review task with line lead/supervisor to ensure all safety precautions are taken prior to starting. 	 <u>Awareness</u> Historical data shows: Slipping & tripping hazards are the mair cause of injuries on can line. Employees are injured when performing non-routine tasks. 	
 Maintain good housekeeping & GMPs throughout shift. If necessary, shut down to clean area. 	Keep machine & area clean to ensure safety, product integrity & equipment uptime.	
Good House	Keeping	
Shutdown		
 For extended shutdowns & maintenance, machin LOTO Guide. For short shutdown periods, press If it is necessary to perform LOTO on conveyors 	"Cycle Stop" then E-stop.	
Conveyor LOTO Guide.		

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Steps	Image and/or Additional Information				
Cleaning	Complete throughout shift or at frequency noted on form/documentation				
If cleaning after shutdown, follow the LOTO Guide instructions on locking and tagging energy sources before you begin cleaning.					
 Whenever line is down, you may enter gate safely as described in section above entitled "Entering Guarded Area," then remove wrap, cans, cartons, or pallet debris found in area. 	No buildup of cartons, cans, pallet debris,				
If a pallet has fallen, causing cans to break open, clean up all liquid spills to remove stickiness from floor or on Wrapper. While doing so, wear proper PPE & avoid cutter wire which may still be hot.	parter debris, cores or plastic wrap under or around Wrapper				
 If film breaks are occurring frequently at beginnin covered stretch rollers that comes from adhesive with ammonia or detergent based cleaners. 					
3. Once weekly or more frequently if needed, use "Hot Wire Pulse" function on Manual Controls menu to clean cutter wire of any wrap buildup.	Main Menu MACHINE CONTROLS 2 OF 2 11/16/2009 4:39:26 PM Help MANUAL MODE MANUAL MODE Retracted Lowered/Retracted 2.00 s Lowered/Retracted 2.00 s Extend Retract / Open Pulse Raise / Extend Lower / Retract Film Clamp Hot Wire Cutter Assembly Previous Screen Conveyor Controls Conveyor Controls				

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To make updates to this document, please note any changes or revisions to this document and route to your supervisor. Your input is critical. Thank You.

Revision History

Rev. Date	Rev	Rev. by	Approved by	Approval Date	Revisions
07/10/2022	1	T. Guire	M. Blanck	07/10/2022	New template with new header.
05/11/2023	2	M. Aman T. Guire	B. Aman	05/16/2023	Moved into new template. Revision to exclusive control measures required in "Entering Guarded Area" section. Additional pictures & revised instruction for steps 2 and 4-8 of "Loading/Replacing Stretch Wrap".