This safety resource was written for the scrap industry by the scrap industry and was developed to assist you in making your scrap operation a safe place for employees, customers, and visitors. This resource covers OSHA requirements that may or may not be applicable to your operation.

SLING

DEFINITION: Flexible lifting attachment used with crane hook, bucket, shovel or similar to hoist and move materials or equipment.

Potential Hazards:

- Falling materials
- Sharp edges
- Pinch points
- Swinging suspended materials

Guarding/Shielding:

- Workers on ground in vicinity of lifted materials should be located in designated safety zone during lifting/hoisting operation.
- Operator of crane or device using a sling should be located in enclosed cab with sufficient impact resistance to prevent injury upon impact of falling or swinging materials.

Protective Equipment:

Hard hats*
Safety glasses*
Steel toe/steel shank work boots*
Gloves as needed
Respirator as needed
*minimum requirements

Safety Procedures:

- Slings must not be used if damaged or defective. Use Inspection sheet to verify condition for use. Inspections must occur before each use.
- Slings must not be loaded in excess of rated capacity.
- Employees on ground must clear the area after attaching sling to materials and remain in designated safety zone while materials are hoisted or swinging.
- Suspended loads must be kept clear of buildings, power lines and any walking or working areas.
- Loads must be balanced before attempting lift.
- All workers performing the hoisting/lifting operation must be familiar with the hand signals employed and/or have access to radio communication with crane/equipment operator during hoisting activity.



- Signs must be posted in the work area that identify hand signals that are in use, and the designated safe zones.
- The operator of the crane/equipment performing hoisting/lifting must always have an unobstructed view of the work area.
- Only slings that have been inspected and approved for use are allowed.

Sling Inspection Checklist Wire rope, synthetic web, chain, and metal mesh slings

Inspected by:	Date:	ОК	No	N/A
Remove wire rope sling from service if TEI	•			
wires lay in one rope, or FIVE broken wire				
Remove wire rope sling from service if we				
removed 1/3 the original diameter of outs				
Remove wire rope sling from service if kin	king, birdcaging, or			
any other damage results in distortion of i	ope structure			
Remove wire rope sling if evidence of cause heat damage	stic or acid burns or			
Remove wire rope sling from service if end	d attachments are			
cracked, deformed or worn				
Remove wire rope sling from service if cap or illegible	pacity tag is missing			
Remove synthetic web sling from service i are evidenced	f acid or caustic burns			
Remove synthetic web sling from service i melting is evidenced	f burns, charring, or			
Remove synthetic web sling from service i tears or cuts are evidenced	f snags, punctures,			
Remove synthetic web sling from service i	f there are broken or			
worn stitches	r there are broken or			
Remove synthetic web sling from service i	f there is wear			
exceeding manufacturers recommendation				
Chain sling links cannot be bent, stretched				
damaged	i, cracked of fieat			
Rings and hooks cannot be distorted, crac	ked at welds or have			
corrosion or heat damage	Red at Welds, of Have			
Chain slings cannot have deformed maste	r link or counling links			
Chain sling hooks cannot have more than				
opening or more than 10 degrees twist fr				
hook	on plane of unbent			
Chain sling hooks must have safety latch	that works			
Chain slings must be removed from service				
-	e il capacity rating			
tag is missing or illegible	lds or joints		+	
Metal mesh slings cannot have broken we			+	
Metal mesh slings cannot have broken wir	e iii any part oi the			
mesh	on has reduced 250/		1	
Meal mesh slings cannot be used if abrasic	on has reduced 25%			
of wire, or if corroded more than 15%			-	
Metal mesh slings cannot be distorted, twi cracked fittings	sted at ends or have			
Metal mesh slings cannot be used if capac	ity tag is missing or			
illegible	,			