



Recycling Permit Application

PLAN OF OPERATION

Scrap Tire Solution, Inc.
220 Marsh Ln
New Castle, DE 19720

February 2026





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1.0 FACILITY OVERVIEW AND PURPOSE

Scrap Tire Solution, Inc. (STS) proposes to operate a scrap tire recycling facility located at **220 Marsh Ln, New Castle, Delaware 19720** (the “Facility” or “Site”). The Facility will process scrap (used) tires delivered by truck, bale (compress) the tires to reduce volume, and prepare them for shipment to approved domestic and international recycling markets.

The prohibition of landfilling tires, regulatory requirements for scrap tire management, and expanding markets for recycled tire products have prompted STS to operate this Facility to serve the mid-Atlantic region. The operation will collect, bale, and export tires for recycling without altering the chemical composition of the material.

1.1 NEED

The proposed operation reduces or eliminates several problems traditionally associated with scrap tires, including rubber belts and tracks (rubber bobcat tracks, conveyor belts, skid steers, and other rubber construction equipment).

Scrap tires may present environmental and fire risks if improperly stored. Tire stockpiles pose fire hazards and may create vector concerns due to water accumulation. Recycling and baling significantly reduces volume, improves handling efficiency, and supports environmentally responsible material management.

1.2 SOURCES

Expected sources of scrap tires include:

- Individual and commercial haulers
- Local tire retailers
- Government-sponsored cleanup programs
- DNREC Scrap Tire Fund projects
- Removal of illegally dumped tires
- Commercial and construction-related rubber belts and tracks



1.3 MARKET

Markets for processed material include crumb rubber producers, rubber granule manufacturers, tire-derived fuel facilities, and other recycling outlets.

Industry data indicates strong utilization of scrap tires in crumb rubber production, tire-derived fuel, civil engineering applications, and export markets. STS will supply baled scrap tires as feedstock to approved recycling and recovery markets.





2.0 FACILITY SETTING AND DESCRIPTION

2.1 SITE LOCATION

The Site is located at **220 Marsh Lane, New Castle, Delaware 19720**, within an established industrial corridor in New Castle County. The property consists of improved industrial land suitable for outdoor storage, container staging, and equipment operations.

The Site is leased and operated by Scrap Tire Solution, Inc.

2.2 SURROUNDING LAND USE

The Site is situated within a predominantly industrial and heavy commercial area of New Castle County. Surrounding properties consist primarily of warehouses, distribution centers, industrial storage yards, transportation-related businesses, and equipment staging areas.

The location provides convenient access to major transportation routes, including Interstate 495, U.S. Route 13, and the Port of Wilmington. The surrounding land uses are consistent with industrial zoning classifications and are compatible with recycling, material processing, and trucking operations.

There are no immediately adjacent residential neighborhoods. The surrounding infrastructure is designed to accommodate heavy vehicle traffic and industrial activity.



3.0 FACILITY DESCRIPTION

3.1 INFRASTRUCTURE

The Site is located within an established industrial area served by public utilities including electricity, water, and sanitary sewer services.

Access to the property is provided via Marsh Lane, which accommodates commercial and heavy truck traffic.

The Site supports:

- Outdoor tire staging
- Trailer and container storage
- Baling operations
- Equipment maneuvering

STS anticipates utilizing modular office space for administrative functions and may install covered structures for operational efficiency as needed.

The location provides efficient access to regional transportation corridors and port facilities to support inbound deliveries and outbound shipments.

3.2 EQUIPMENT

The Facility will utilize:

- Eagle International Model 4566 Tire Baler
- Eagle International Model 3060 Tire Baler (as operations expand)
- Forklift or skid steer for bale handling
- Shipping containers and bins for storage and transport

Each baler compresses whole tires into secured “Enviro-Blocks,” reducing volume and minimizing fire risk. The balers operate on diesel fuel.

Specification sheets are included as Attachment A.





3.3 EMPLOYEES

Scrap Tire Solution anticipates employing approximately 12 staff members during initial operations.

3.4 PROCESS

3.4.1 Scrap Tire Receiving

Scrap tires and rubber tracks will be delivered to the Facility by truck from regional sources. Upon arrival, materials will be visually inspected and staged in designated storage containers or approved outdoor staging areas prior to processing.

3.4.2 Production

Tires are manually fed into the baler where they are compressed and secured with wire to form a bale. Each bale contains approximately 100 tires.

Initial production will consist of one baler operating one eight-hour shift per day, five days per week.

Estimated throughput:

- Approximately 3,000 tires per day
- Approximately 15,000 tires per week
- Approximately 60,000 tires per month

As market demand increases, operations may expand to approximately 200,000 tires per month through the addition of equipment and extended operating shifts.

3.4.3 Product Delivery

Filled containers will be transported off-site by truck and shipped to their final destination, including potential export through the Port of Wilmington or other approved facilities.



3.4.4 Storage Capacity

The Site can accommodate approximately 20 standard 53-foot trailers for storage of both unprocessed and baled tires.

Estimated capacity:

- Approximately 2,000 baled tires per container
- Approximately 1,000 unbaled tires per container

Additional storage capacity may be utilized as operations expand.

3.4.5 Feedstocks

The feedstock for the Facility consists of used (scrap) tires and rubber tracks.

3.4.6 Products

The Facility produces compressed tire bales (“Enviro-Blocks”).

Approximate dimensions:

- Model 4566: 45” x 54” x 66”
- Model 3060: 30” x 54” x 60”

Baled tires occupy approximately half the volume of unbaled tires.

A photograph of a typical bale is included as Attachment B.

3.5 FACILITY ACCESS

Facility access is provided via Marsh Lane.





3.5.1 Operating Hours

The Facility will initially operate:

Monday through Saturday
7:00 AM to 9:00 PM

If additional shifts are added, operations may extend between:

5:00 AM and 1:00 AM.

3.5.2 Traffic

Estimated daily traffic includes:

- 5 to 10 inbound trucks delivering scrap tires
- 5 to 10 outbound trucks transporting baled tires
- Approximately 12 non-truck vehicles (employees and visitors)

Traffic levels are consistent with surrounding industrial uses.





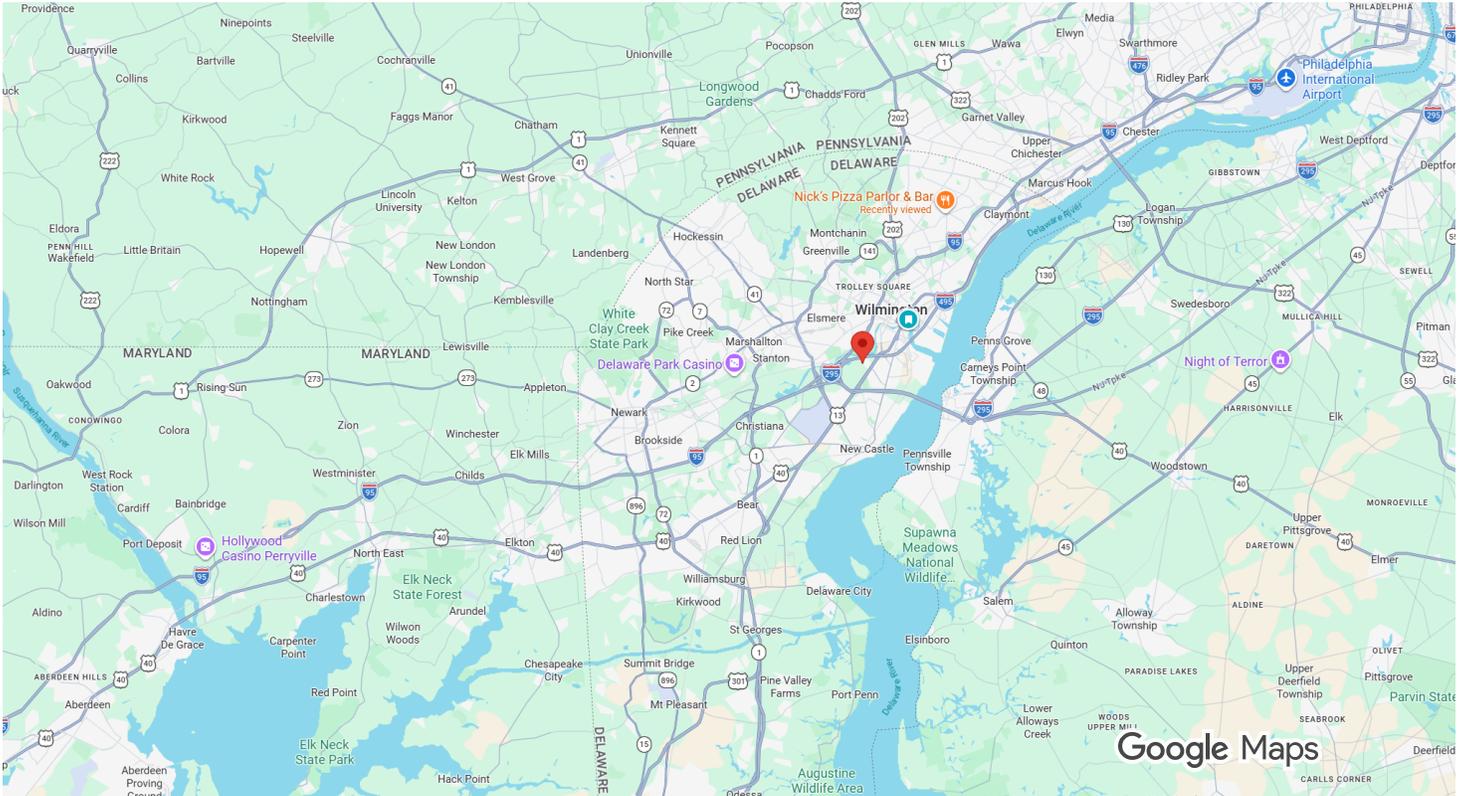
FIGURES



220 Marsh Ln



STS Site Location Map
Figure 1



Map data ©2026 Google 2 mi



220 Marsh Ln
Building



Directions



Save



Nearby



Send to
phone



Share

Scrap Tire Solution 220 Marsh Lane - Baled Tire Storage Bins





ATTACHMENT A

Baler Specifications



REBX Portable Two-Ram Baler

Facility: 220 Marsh Lane – New Castle, Delaware

Document Reference: STS Updated Operations Plan (2026 Update)

Equipment Identification

Equipment Name:	REBX Portable Two-Ram Baler
Manufacturer:	Sierra International Machinery, LLC
Equipment Type:	Portable Horizontal Two-Ram Baler
Primary Application:	Scrap tires (processed), OCC, plastics, and non-ferrous materials

Technical Specifications

- Portable heavy-duty steel skid or trailer-mounted frame
- Horizontal gatherer (compression) ram with perpendicular ejector ram
- Automated wire tie system (adjustable 4–6 ties per bale)
- Typical Bale Size: 30" x 40" x Variable Length
- PLC-based control system with touchscreen HMI
- Adjustable ram overtravel and bale density settings
- Integrated hydraulic power unit with oil cooling system
- Hydraulic pressure monitoring with transducers
- Automatic and Manual operating modes
- Emergency stop system and safety interlocks

Operational Use at 220 Marsh Lane

- Primary compaction unit for processed scrap tire material
- One 8-hour shift per day, five days per week (initial operation)
- Flexible yard positioning due to portable configuration
- Supports efficient trailer loading and outbound shipment
- Designed to reduce storage footprint and increase shipping efficiency

Prepared for inclusion in STS Updated Operations Plan – 220 Marsh Lane



SIERRA
REB

SIERRA
REB

Eagle International - 4566 Baler Spec Sheet

Designed to compress and bale whole passenger or semi tires, the Eagle 4566 Tire Baler has a larger compression chamber to bale larger tires. Baling tires reduces volume, fire hazards and makes it easier to transport tires to processing stations.

The 4566 Tire Baler offers several significant safety and efficiency features.

- Higher efficiency design allows for lower horse power engines
- Bales waste tires to form a 45"x54"x66" "Enviro-Block"
- Electric or diesel power options

Specifications

	Portable	Stationary
Weight	14,260 lbs (6,468 kg)	10,100 lbs (4,581 kg)
Height	165" (419 cm)	162" (411 cm)
Width	102" (259 cm)	84" (214 cm)
Length	271" (684 cm)	112" (284 cm)
Hitch	3" Pintle Hitch or 5th wheel	None
Axles	Tandem	None
Suspension	Rubber Torsion	None
Tires	16"	None
Brakes	Electric	None
Max. Tire Capacity	Super Single Truck Tires	Super Single Truck Tires
Average Cycle Time	30 Seconds	30 Seconds



Eagle International - 3060 Baler Spec Sheet

The Eagle 3060 Tire Baler is designed to compress and bale whole car, pickup/SUV and cut truck tires. Baling tires reduces volume, fire hazards and makes it easier to transport tires to processing stations.

- The 3060 Tire Baler offers several significant safety and efficiency features.
- Higher efficiency design allows for lower horse power engines
- Bales waste tires to form a 30"x54"x60" "Enviro-Block"
- Electric, gas, or diesel power options

Specifications

	Portable	Stationary
Weight	14,260 lbs (6,468 kg)	10,100 lbs (4,581 kg)
Height	165" (419 cm)	162" (411 cm)
Width	102" (259 cm)	84" (214 cm)
Length	271" (684 cm)	112" (284 cm)
Hitch	3" Pintle Hitch or 5th wheel	None
Axles	Tandem	None
Suspension	Rubber Torsion Insert	None
Tires	16"	None
Brakes	Electric	None
Average Cycle Time	30 Seconds	30 Seconds
Weight	14,260 lbs (6,468 kg)	10,100 lbs (4,581 kg)





ATTACHMENT B

Finished Product Photograph







ATTACHMENT C

FIRE CONTROL PLAN

Scrap Tire Solution
220 Marsh Ln
New Castle, DE 19720

1. Fire Prevention Procedures

All staff will be trained to identify fire hazards and signs of smoldering material.
“NO SMOKING” signage will be posted in designated areas.

2. Fire Response Procedures

In the event of a fire:

- The operator will dial 911 immediately.
- All personnel will be evacuated from the Site.
- Deliveries will cease until the fire is extinguished.
- Equipment will be moved away from the affected area if safe to do so.
- Site personnel will meet responding fire crews and provide relevant information.

Firefighting personnel will follow established emergency response protocols.

3. Follow-Up After Fire

Scrap Tire Solution will:

- Properly manage and dispose of fire-damaged material
 - Restore emergency equipment to operational condition
 - Review and update this plan annually or as necessary
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