

Solid Waste

Industrial weighing and measurement



3 News

Recycling Facility Meets Highest Standards

METTLER TOLEDO weighbridges play an essential role at Waste Management's flagship recycling facility. They provide reliable inbound/outbound weighing for one of the world's foremost single-stream recycling operations.

Waste Management Recycle America's Elkridge Material Recovery Facility (MRF) provides a range of recycling services to municipal, residential, and business customers. It serves Washington, D.C., and Greater Baltimore, including Anne Arundel, Carroll, and Howard counties.

In operation since August 2006, it was the first material recovery facility in the area to use single-stream technology. By accepting a single stream of recyclable material, the facility eliminates the need for customers to separate items before collection. In

addition to reducing transport and handling costs, this makes it easier for homeowners and businesses to recycle.

Using the latest technologies for sorting mixed recyclables, the Elkridge facility can process up to 65 tons per hour. As of February 2007, this was the highest recycling production capacity in the world.

The facility receives and processes about 20,000 tons of recyclable material per month. About 70% of the material is paper (newspapers, maga-



METTLER TOLEDO

zines, cardboard, etc.). Most of the remaining material consists of glass, plastics, and metals. Less than 4% of materials are non-recyclable.

A combination of manual and mechanical techniques is used to separate the single stream into different types of recyclable materials. Once separated, most materials are compacted and baled. Glass is conveyed to piles to await hauling. Because the Port of Baltimore is nearby, the facility can easily ship the materials to markets throughout the world.

All materials entering and exiting the Elkridge facility are weighed for accounting and regulatory purposes. Continuing its long relationship with Waste Management, METTLER TOLEDO supplied two steel-deck weighbridges to ensure that accurate weights are recorded for both inbound and outbound trucks. The grade of the property on the inbound side presented a challenge in locating the weighbridge. To maintain a safe incline from the weighbridge, it was necessary to construct a ramp 150 feet long.

Roughly 120 trucks per day deliver material to the facility. After weighing in on the inbound weighbridge, trucks drive down the ramp to the back of the processing building, dump their material, and then drive around to the front of the building to weigh empty on the outbound weighbridge. The layout provides an efficient flow of traffic and eliminates unsafe back-ups. The outbound weighbridge also weighs the more than 40 trucks per day that haul baled materials to the port and other domestic locations. A METTLER TOLEDO scale terminal feeds accurate and precise weight data to the facility's computer network.

Waste Management takes great pride in the Elkridge site being its flagship recycling facility. Visitors from all over come to see the operation and technology that Recycle America employs. The site is well maintained and the weighbridges are cleaned regularly. To ensure that the performance of the weighbridges always meets the highest expectations, the facility has a maintenance agreement with METTLER TOLEDO.



POWERCELL MTX load cells ensure that the weighbridges perform reliably with minimal service costs.



The inbound weighbridge required a ramp 150 feet long to provide a safe incline for trucks delivering recyclable materials.

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Scoreboards Provide High-Visibility Weight Display

Make your weights easy to read with METTLER TOLEDO scoreboards. Using light-emitting diodes (LED), the scoreboards display bright characters that can be seen clearly in full sunlight and at night.

Scoreboards are available for a variety of industrial weighing applications. When used at facilities that weigh vehicles, they allow drivers to see the weight display easily. Because drivers do not need to leave their trucks, transactions can be completed quickly and safely, enabling the facility to weigh more trucks per day.

A scoreboard can be installed next to a scale or at another location where it is convenient for customers to see actual weight readings as material is being weighed. Weights are displayed in 4-inch-high numbers that are clearly visible at distances of 150 feet or more. Scoreboards with optional 6-inch-high numbers are available for extra visibility.

Wireless Operation

For remote scales, our wireless communication option allows you to operate scoreboards at greater distances from the scale house without expensive runs of cable and conduit.

A transceiver connected to the scale terminal transmits a reliable wireless signal. The scoreboard is equipped with an antenna so that it can receive the signal at distances of up to one half mile and display the weight from the scale terminal.

Built-in Traffic Light

Scoreboards are available with an optional traffic light that eliminates the expense of installing stand-alone traffic lights. The light switches from red to green, making it easy to use a scoreboard to regulate the movement of traffic over a weighbridge. For example, the traffic light can be set to switch to red after a truck pulls onto a weighbridge and then switch to green when a weighing transaction has been completed and the truck is free to exit the weighbridge.

Each scoreboard has a durable enclosure made of a powder-coated aluminum alloy that is designed for use outdoors and in harsh environments.



With the wireless option, a transceiver connected to the scale terminal transmits a signal to a scoreboard up to one half mile away, eliminating the need for expensive runs of cable and conduit.

Scoreboard Features

- Weight unit designators: lb, kg, T, and t.
- Designators for gross (GR) and net (NT) weighing.
- Dual-intensity settings for adjusting the display's brightness.
- Interfaces: RS-232, RS-422 (RS-485 multi-drop), 20 mA CL.
- Environmental protection: IP56 (Type 4).
- Easy access to internal components for field repair.



Scoreboards are available with a built-in traffic light that switches from red to green.



OverDrive Software Now Offers Invoicing

Simplify billing procedures for your weighing transactions by using our vehicle scale software to handle your invoicing needs.

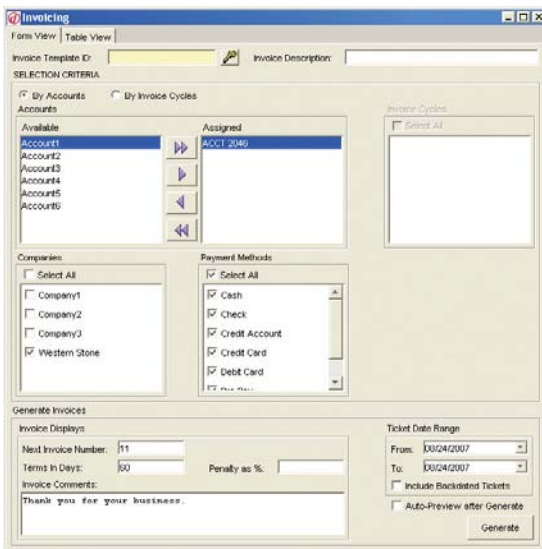
OverDrive™ software is now available with an optional invoicing module. It simplifies billing by enabling you to generate invoices directly from the OverDrive database. There is no need to export data for use in a separate invoicing software package. OverDrive software streamlines your operation by handling everything from recording vehicle weights to generating invoices and compiling reports.

An easy-to-use invoicing screen lets you choose how the invoices will be generated: for all accounts, for individual accounts, or for invoice cycles. Invoice cycles are groups of accounts that are billed weekly, monthly, or on any basis you specify. After choosing the accounts to be billed, select a date

range and click the Generate button. OverDrive software does the rest, automatically generating invoices for the desired transactions.

In addition to generating invoices, the software gives you extensive capabilities for managing them:

- **Print** - You can view invoices, print paper copies, or create electronic files.
- **Lock** - You can lock the final version of an invoice so that it cannot be changed.
- **Remove** - If changes are needed, you can delete unlocked invoices and generate new copies.
- **Purge** - You can delete older invoices from the database.



The OverDrive invoicing screen makes it easy to generate invoices.



With its built-in invoicing capabilities, OverDrive software makes business operations more efficient. There are no software compatibility problems to worry about because data does not need to be exported to other packages. By letting one software package do it all, you can handle your billing quickly and reliably.

Invoice									
BILL TO: ACCT 2046 Global Construction 5664 First Street Columbus, OH 43285								Invoice #: 10 Invoice Date: July 24, 2007	
Ticket #	Date	Carrier	Vehicle	Company	Net Weight	Unit Price	Net Price	Tax/Fees	Total
Product: 144 Medium Stone Fill									
12	July 24, 2007	Carrier 4	215	West Stone	18400 lb	\$11.85 /t	\$108.36	\$5.47	\$114.85
17	July 24, 2007	Carrier 4	926	West Stone	46980 lb	\$11.85 /t	\$278.36	\$13.92	\$292.28
					Sub Total:	65,440.00 lb	\$387.74	\$19.39	\$407.13
Product: 279 Heavy Stone Fill									
11	July 24, 2007	Carrier 4	114	West Stone	24280 lb	\$15.00 /t	\$182.10	\$9.10	\$191.20
20	July 24, 2007	Carrier 4	868	West Stone	26880 lb	\$15.00 /t	\$201.60	\$10.08	\$211.68
21	July 24, 2007	Carrier 4	926	West Stone	55660 lb	\$15.00 /t	\$417.45	\$20.87	\$438.32
					Sub Total:	106,820.00 lb	\$801.15	\$40.05	\$841.20
Product: 427 #2 Crushed Stone									
13	July 24, 2007	Carrier 4	345	West Stone	31620 lb	\$8.50 /t	\$135.24	\$6.76	\$142.00
22	July 24, 2007	Carrier 4	345	West Stone	62340 lb	\$8.50 /t	\$264.95	\$13.25	\$278.20
					Sub Total:	94,160.00 lb	\$400.19	\$20.01	\$420.20
Product: 513 #1A Crushed Stone									
14	July 24, 2007	Carrier 4	631	West Stone	7440 lb	\$12.75 /t	\$47.43	\$2.37	\$49.80
18	July 24, 2007	Carrier 4	215	West Stone	38900 lb	\$12.75 /t	\$247.99	\$12.40	\$260.39
23	July 24, 2007	Carrier 4	957	West Stone	39240 lb	\$12.75 /t	\$250.16	\$12.51	\$262.67
					Sub Total:	85,580.00 lb	\$545.58	\$27.28	\$572.86
Product: 681 #3 Crushed Stone									
15	July 24, 2007	Carrier 4	957	West Stone	19560 lb	\$11.00 /t	\$107.58	\$5.38	\$112.96
16	July 24, 2007	Carrier 4	868	West Stone	15980 lb	\$11.00 /t	\$87.89	\$4.39	\$92.28
19	July 24, 2007	Carrier 4	631	West Stone	32340 lb	\$11.00 /t	\$177.87	\$8.89	\$186.76
					Sub Total:	67,880.00 lb	\$373.34	\$18.66	\$392.00
					Invoice Total:	419,880.00 lb	\$2,508.00	\$125.39	\$2,633.39

Sample invoice

Lightning Protection for Your Truck Scale

A lightning strike can put a truck scale out of commission in an instant. You can avoid costly downtime by protecting your scale from electrical damage.

A lightning strike or power surge can seriously damage high-performance electronic equipment. Today's scales feature electronic components that require surge protection. A typical truck scale installation can include several vulnerable components: load cells, junction boxes, scale terminals, remote displays, and personal computers.

Damage from a lightning strike can be very costly. In many cases, unprotected electronic equipment will need to be repaired or replaced. Even if a warranty covers the repair costs, you still face the cost of the business that you lose every day that your truck scale is not operating.

A StrikeShield™ lightning protection system is designed to be the main line of defense for your truck scale and scale house. It provides surge protectors for the electronic equipment and uses a single-point ground. By connecting the scale and its electronic components to the single ground point, you create a path that allows electricity to be discharged harmlessly into the ground.

To provide additional protection, METTLER TOLEDO builds surge-protection features into its products. The junction boxes that connect the

scale's load cells are equipped with gas-filled discharge tubes. When the tubes sense that energy is building, they discharge it safely.

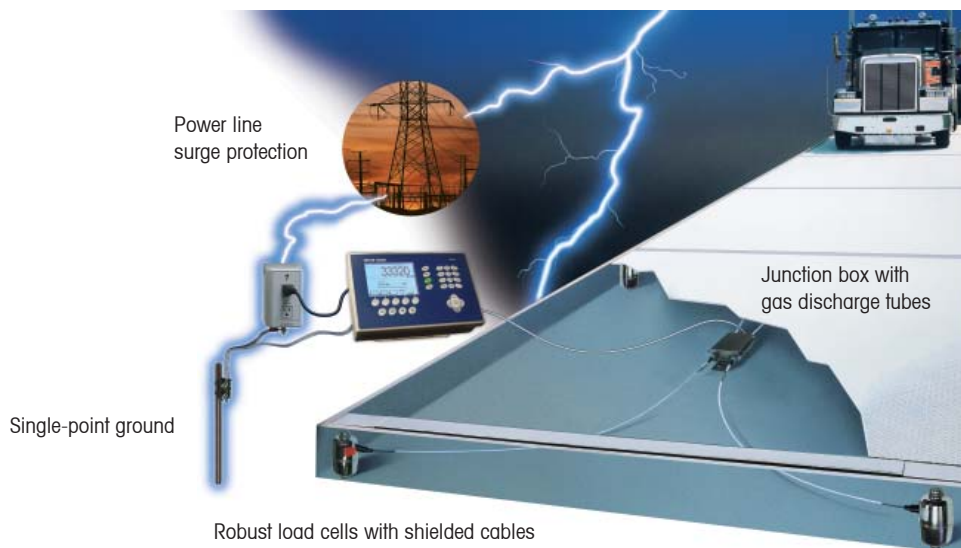
The POWERCELL® MTX® load cells that are used in our truck scales have proven their surge-protection capabilities, both in independent testing and real-life experience. The load cells are equipped with transient voltage suppressors. Those built-in circuit breakers react to the heat produced by a power surge to protect sensitive equipment.

The combination of a StrikeShield lightning protection system and the additional features built into our electronic components provides reliable protection for your truck scale.

Proven Protection

The StrikeShield system protects your business against costly damage and downtime:

- Protects against damage from lightning strikes.
- Protects against damage from power surges.
- Keeps truck scales operating.
- Proven reliable in independent testing.



Tailored Service to Protect Your Investment

METTLER TOLEDO vehicle scales are designed for years of dependable operation. But constant use and exposure to harsh environments can affect any scale's performance. To get the most out of your investment, make sure that your scale is installed, calibrated, and maintained by experts.

Installation and Configuration

Our project managers coordinate all the work, equipment, and contractors needed to install your vehicle scale cost-effectively. We make sure that your scale is installed properly, ready on time, and meets specifications.



Calibration Certification

We help you maintain weighing accuracy by testing your scale periodically to ensure that it meets manufacturer's specifications and all industry and legal standards. Our calibration certificates document regulatory compliance.



Proactive Maintenance

A vehicle scale is a significant investment, and its dependability is critical to your facility's productivity. We can provide the factory-specified maintenance needed to keep your scale weighing accurately and safely.



Our ServiceXXL program includes an extensive range of services to help you preserve the value of your investment. Let us tailor a service agreement that meets the needs of your business.

ServiceXXL
Tailored Services



Our service technicians provide scheduled maintenance and emergency repairs to keep your scale operating.

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