



# CITY OF TAMPA

Bob Martinez, Mayor

MCKAY BAY REFUSE-TO-ENERGY PROJECT

December 29, 1982

DER  
JAN 3 1983  
BAQM

Mr. Clair Fancy  
Department of Environmental Regulation  
Bureau of Air Quality  
2600 Blair Stone Road  
Tallahassee, Florida 32301

RE: Permit #PSD-FL-086, AC29-47277

Dear Mr. Fancy:

As you are aware, the City of Tampa has received permits from D.E.R. for construction of the McKay Bay Refuse-to-Energy Facility. The Facility is designed to burn solid waste from the City of Tampa and to simultaneously generate electricity. The City has previously requested to modify its permits to Construct an Air Pollution Source to allow burning of infectious waste in the Facility (letter of November 9, 1982). Recently, the City received a request from a Tampa Port Authority group to provide facilities for disposal of oil recovered from oil spills occurring at the Port of Tampa.

Oil would be delivered to the Facility by tanker truck or in polyethylene pads packed in fiber drums. The Facility would accept no more than 15,000 gallons per day from tanker trucks which would spray the oil onto the garbage in the pit. The Facility would accept up to 10 tons per day of fiber drums which would be placed directly into the combustion train. Disposal will only be available for oil spilled at the Port of Tampa. Such spills have resulted in an average of approximately 10,000 gallons of oil being recovered each year. The only major spill in the Port of Tampa released approximately 30,000 gallons of oil in 1979. No additional air emissions are expected from the burning of recovered oil.

The City therefore requests to have its permits to Construct an Air Pollution Source (PSD FL-086, AC29-47277)

Mr. Clair Fancy  
Page 2  
December 29, 1982

modified to allow burning of the above-mentioned quantities of recovered oil. Additionally, we request modification of these permits to allow burning of infectious waste as described in our letter of November 9, 1982.

If you have any questions concerning these requests, please contact my office. Thank you.

Very truly yours,



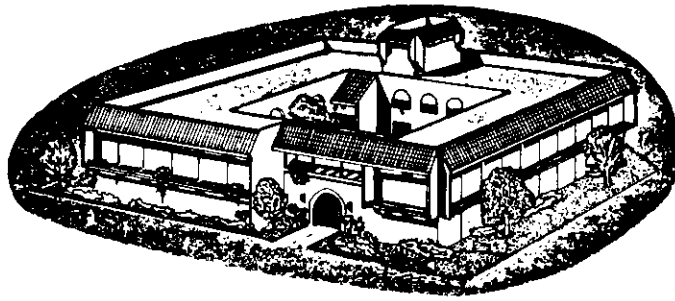
Joseph D. Murdoch  
Resource Recovery  
Management Analyst

JDM/dw

cc Rick Garrity  
John Egan

HILLSBOROUGH COUNTY  
ENVIRONMENTAL PROTECTION

COMMISSION  
FRED A. ANDERSON  
JERRY M. BOWMER  
FRAN DAVIN  
JOE KOTVAS  
JAN KAMINIS PLATT



ROGER P. STEWART  
DIRECTOR  
1900 - 9th AVE.  
TAMPA, FLORIDA 33605  
TELEPHONE (813) 272-5000

*Est. Stewart*  
*2/15*

December 6, 1982

Mr. Bill Thomas, P. E.  
Air Engineering  
Florida Department of Environmental Regulation  
7601 Highway 301 North  
Tampa, Florida 33610

*File Hills Co.*  
*SECRET*

Dear Bill:

I have attached some correspondence that has been flowing between HCEPC, Clair Fancy, and The Tampa McKay Bay Refuse - to - Energy Project.

Tampa is requesting to be allowed to burn infectious waste in its new (modified) incinerator. The residence time of 3.7 seconds and 1800°F is adequate to destroy this type of waste.

They plan to insert the waste into the chute and not into the pit.

Hillsborough County concurs with this request.

Sincerely,

*John Egan*

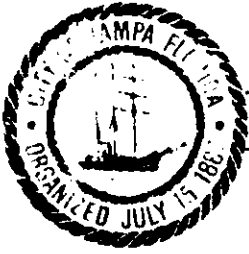
John Egan  
Environmental Engineer  
Hillsborough County Environmental  
Protection Commission

JE:dr

attachments

cc: Joseph D. Murdoch

*copy to Clair Fancy*  
*12-13-82*



# CITY OF TAMPA

Bob Martinez, Mayor

MCKAY BAY REFUSE-TO-ENERGY PROJECT

November 23, 1982

*John Stec*

Mr. John Egan  
Hillsborough County Environmental  
Protection Commission  
1500 -9th Avenue  
Tampa, FL 33605

DER  
NOV 29 1982  
BAQM

Dear John:

In response to your letter of November 18, 1982, the point of introduction of infectious waste to the Facility will be at a separate loading area at the rear of the Facility. The infectious waste will be transferred to the Rubbermaid bucket arrangement shown in the attachments to my letter of November 9, 1982. The buckets will be wheeled into an elevator and transported to the feed chute for the incinerator, where they will be mechanically discharged into the chute. Workers will not have to come in direct contact with the waste and no infectious wastes will be discharged directly into the refuse pit.

Thank you for your cooperation on this issue. If you have additional questions, please contact me.

Sincerely,

*Joe*

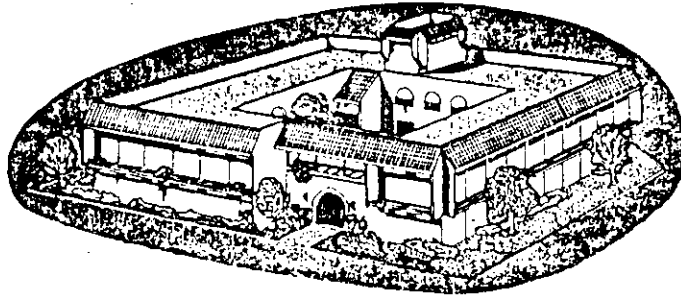
Joseph D. Murdoch  
Resource Recovery Management Analyst

cc Clair Fancy, D.E.R.

HILLSBOROUGH COUNTY  
ENVIRONMENTAL PROTECTION

COMMISSION

FRED A. ANDERSON  
JERRY M. BOWMER  
FRAN DAVIN  
JOE KOTVAS  
JAN KAMINIS PLATT



ROGER P. STEWART  
DIRECTOR  
1900 - 9th AVE.  
TAMPA, FLORIDA 33605  
TELEPHONE (813) 272-5960

November 18, 1982

Mr. Joseph D. Murdoch  
Resource Recovery Management Analyst  
City Hall Plaza, 5N  
Tampa, FL 33602

RE: Your letter dated November 9, 1982

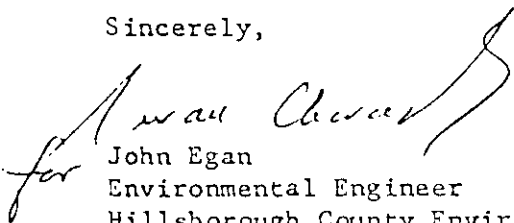
Dear Joe:

I am sending a copy of your request to the local FDER office here in Tampa.

As I indicated in our phone conversation, we will need to know exactly how you plan to introduce the wastes into the furnace. Your letter does not address this. Please indicate the entry point and system of entry of the refuse into the system

Joe, your residence time is good and so is the temp of the system. If you are not using the pit, I believe you will be able to handle this waste.

Sincerely,

*for*   
John Egan  
Environmental Engineer  
Hillsborough County Environmental  
Protection Commission

JE/rr

cc: Bill Thomas DER

1 Attachment



# CITY OF TAMPA

Bob Martinez, Mayor

McKAY BAY REFUSE-TO-ENERGY PROJECT

November 9, 1982

DER  
NOV 17 1982  
BAQM

Mr. Clair Fancy  
Department of Environmental Regulation  
Bureau of Air Quality  
2600 Blair Stone Road  
Tallahassee, Florida 32301

Dear Mr. Fancy:

As you are aware, the City of Tampa has received permits from D.E.R. for construction of the McKay Bay Refuse-to-Energy Facility. The Facility is designed to burn solid waste from the City of Tampa and to simultaneously generate electricity. The City would also like to burn infectious waste in the Facility.

The Department of Health and Rehabilitative Services and D.E.R. have issued a joint memorandum which defines infectious waste and recommends incineration as the preferred method of disposal. While the City of Tampa's application to construct an air pollution source does not prohibit burning of infectious waste, the subject is not specifically addressed. The City therefore requests that your office confirm the acceptability of burning infectious waste in the McKay Bay Refuse-to-Energy Facility.

Special handling procedures and equipment have been added to the operation and construction plans for the Facility to insure safe handling of the infectious waste (see attached). Additionally, the Facility design will allow a residence time of approximately 3.7 seconds, at 1800°F, for all gases (attached). Also, as we have previously discussed, no radioactive waste will be disposed of at the incinerator.

If you have any questions concerning this request, please contact me. Thank you for your time and consideration.

Sincerely,

Joseph D. Murdoch  
Resource Recovery Management Analyst

JDM/dw

cc John Egan, EPC



Waste Management, Inc.  
3003 Butterfield Road • Oak Brook, Illinois 60521

November 5, 1982

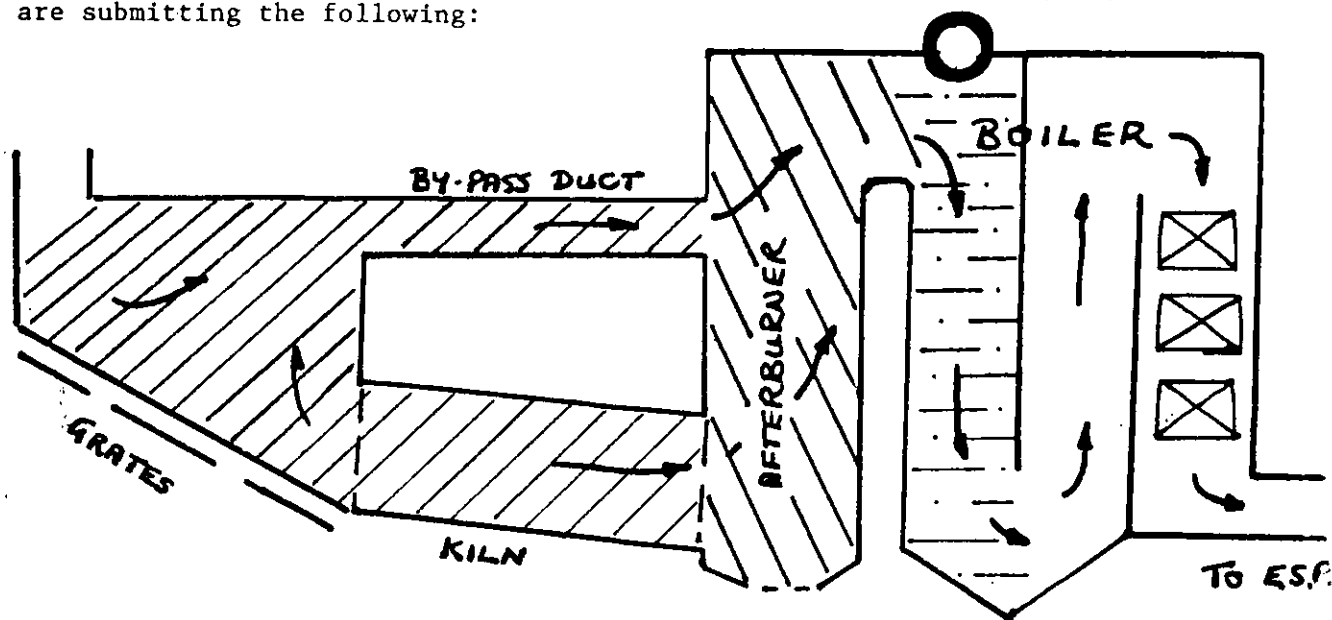
City of Tampa  
City Hall Plaza, 5N  
Tampa, Florida 33602

Attention: Mr. Joe Murdoch

Subject: System Volund - Gas Residence Time and Temperature

Dear Joe:

In response to your recent request for information concerning odor control and burn-out of gases in the furnace system to be installed at McKay Bay, we are submitting the following:



Zone 1 - Furnace, Rotary Kiln and By-Pass Ducting  
Average Temperature 1750°F  
Residence Time 2.7 seconds



Zone 2 - Afterburner  
Average Temperature 1750°F  
Residence Time 0.95 seconds



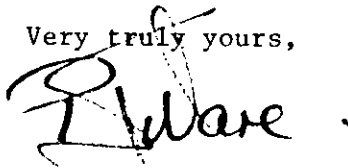
Zone 3 - Boiler - 1st Pass  
Average Temperature 1300°F  
Residence Time 3.89 seconds

Mr. Joe Murdoch  
November 5, 1982  
Page 2

It has been Volund's experience that gas retention for 1 second at or above 1300°F will eliminate any detectable odor in the flue gases.

I hope this information is helpful in your discussions with the appropriate officials.

Very truly yours,

A handwritten signature in cursive script that reads "Peter J. Ware". The signature is written in dark ink and is positioned above the typed name.

Peter J. Ware  
Director  
Technical Development

PJW:mat



Rubbermaid

# in/terior

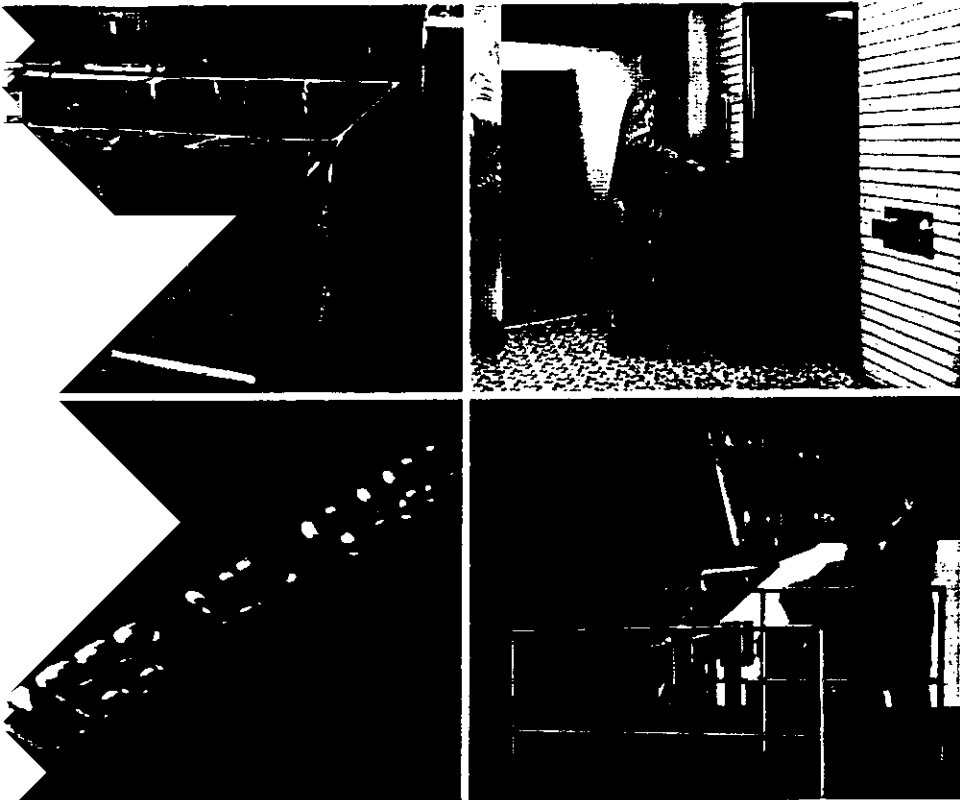
## SERVICE TRASH



A safety first system for collecting and automatically dumping all types of building trash.

# Building trash can now be collected, transported and automatically dumped in stationary compactors more efficiently; with greatly reduced risk of employee injury.

Collecting, transporting and dumping the wide variety of trash generated within a typical commercial building or plant presents many problems - but, a Rubbermaid in/terior service Toter system can solve **most** of them! For example:



## 1. Safer trash handling and dumping.

Back strain and fall related injuries are the two most obvious dangers of handling and dumping trash - Rubbermaid in/Toter systems feature automatic, remote-controlled dumpers to help avoid these potential employee hazards. The special electric - hydraulic dumping units eliminate the need to lift or hand-dump trash into compactors or other transfer containers. The employee simply hooks the in/Toter then actuates the dumper from a safe, remote location. Along with reducing injury risk - the system can also save on insurance costs, workmen's compensation settlements, plus absenteeism. And, of course, improved working conditions mean better employee morale!

## 2. Color-coding and signage for better management...and looks!

Each department, floor section...or, 'special activity', can have its own color-coded and/or custom-imprinted carts. This provides better inventory control and color harmony to your building decor.

## 3. Easier on your building!

The smooth, rounded edges. The less abrasive material. The more controlled - maneuverability...and the compact, trim-line design of **both** carts cuts down on damage to interior walls, floors and doors.

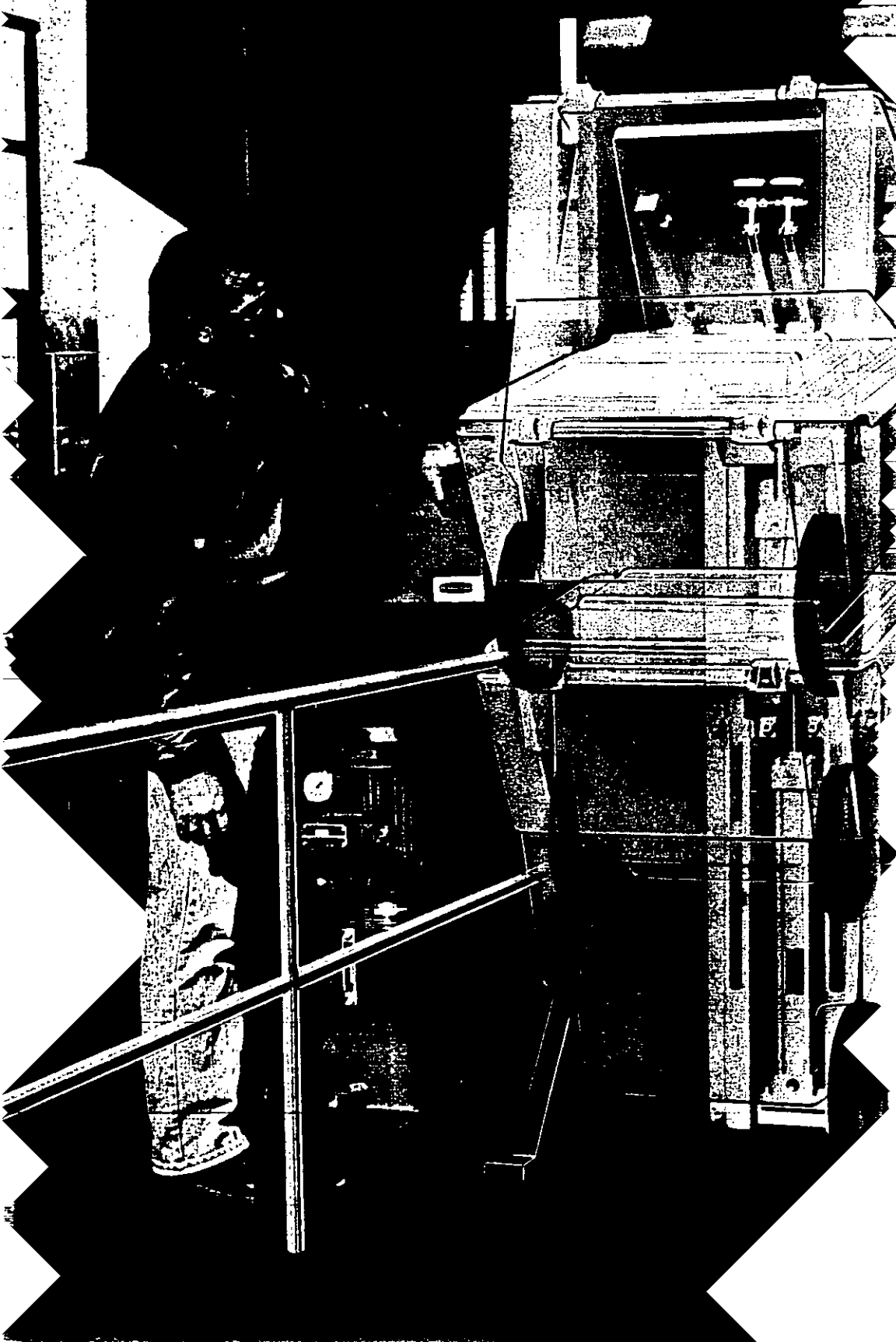
## 4. A versatile one-source answer!

Rubbermaid in/Toters can handle all types of normal building refuse including **wet** trash. Our container walls are virtually impervious and special liners are available.

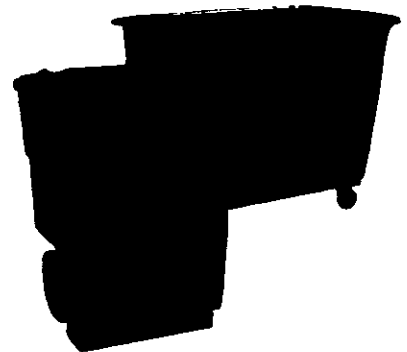
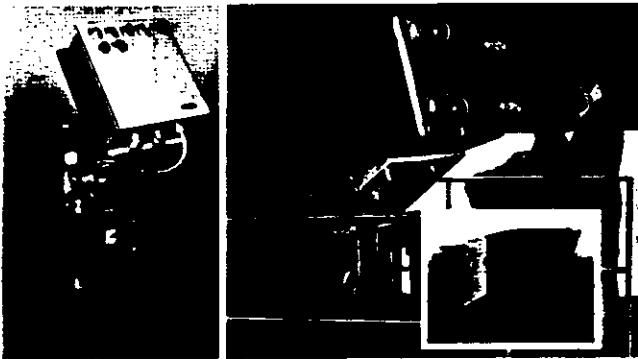
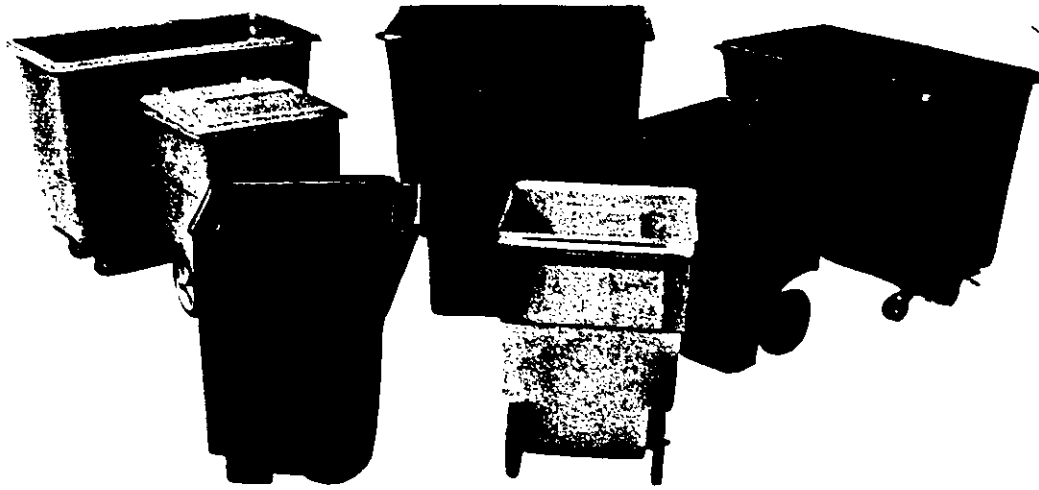
## 5. Efficiency and cost-control

Easy-rolling, maneuverable Rubbermaid in/Toters come in two hi-capacity sizes to help achieve faster trash collection. This can significantly reduce manpower costs!

Two sizes of container  
and a full line of  
automatic dumpers  
available.



# Traditional Rubbermaid Product integrity.



## Hydraulic Dumper SPECIFICATIONS

Electro-hydraulic dumpers available for most **dock level** and **ground level** stationary compactors. **NOTE:** 1.0 cu. yd. Dumper will dump both sizes of in/Toters.

**POWER:** 3ph./60cy./220-440V. 1/2 cu. yd. 1.0 cu. yd.

Totally enclosed, fan-cooled motor. All electrical components are UL listed.

2 hp 3 hp

**HYDRAULICS:** 1300psi; Built-in fluid filter and flow control valves. Meets all J.I.C. and I.S.O. Standards.

2 gpm 3 gpm  
5 gal. 10 gal.  
reservoir reservoir

**CONTROLS:** Key - operated ON/OFF with manual directional "deadman" valve.

**INSTALLATION:** Dumpers are specified and custom-installed by exclusive in/Toter™ distributors, to work with most stationary compactor models.

This equipment conforms to all applicable ANSI Z245.1-1975 Safety Standards. Pictures in this brochure are illustrative only. Products must be installed in conformity with ANSI Z245.1 as well as any applicable codes and regulations. Products must be used with safe practices and in accordance with said regulations and standards.

Paul Reilly Company of Illinois, Inc.  
1319 Howard St.  
Elk Grove Village, IL 60007  
(312) 364-1960

## in/Toter™ SPECIFICATIONS

	1/2 cu. yd.	1.0 cu. yd.
<b>DIMENSIONS:</b>	32"Lx29"Wx41 1/2"H	55 1/2"Lx33 1/2"Wx44 1/2"H
<b>WEIGHT:</b>	37 lbs.	98 lbs.
<b>In/Toter Lid</b>	5 lbs.	11 lbs.
<b>CAPACITY:</b>	200 lbs., 11 cu. ft.	500 lbs., 1.0 cu. yd.
<b>WHEELS:</b>	2-12"x1.75" Semi-pneumatic	2-5" Swivel Casters 2-5" Locking Casters
<b>MATERIAL:</b>	Specially compounded high density polyethylene	
<b>COLORS:</b>	Brown, Blue, Red, Orange, Yellow	
<b>IMPRINTING:</b>	Permanent hot stamped imprinting optional. Examples: "SOILED LINEN", "KITCHEN"	
<b>LINER:</b>	Gray or red poly-bag liners available.	

Specifications subject to change without notice.

A safety-engineered system manufactured  
and distributed exclusively by:

**Rubbermaid**

RUBBERMAID APPLIED PRODUCTS, INC.

10000 W. 100th St., Minneapolis, MN 55438