



GULF COAST RECYCLING, INC.

1901 NORTH 66th STREET • TAMPA, FLORIDA 33619
PHONE: (813) 626-6151 FAX: (813) 622-8388

January 18, 2002

RECEIVED

JAN 30 2002

Jerry Campbell, P.E.
Air Management Division
Environmental Protection Commission
of Hillsborough County
1410 N. 21st Street
Tampa, Florida 33605

BUREAU OF AIR REGULATION

* Issued in Hillsborough
0570057-013-AC

RE: Soda Ash Storage Silo Construction Permit
Gulf Coast Recycling, Inc., Facility I.D. Number: 0570057

Dear Mr. Campbell:

Enclosed is a permit application for Gulf Coast Recycling, Inc. (GCR) to construct a bulk soda ash silo. The silo is a component of the soda ash slurry system to be used for the reduction of sulfur oxide emissions. The silo itself is the only potential source of emissions from the new system, hence, it is the only component for which a permit is being sought.

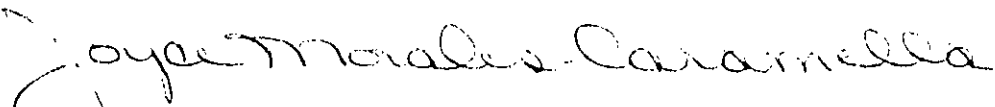
The new slurry injection system will be installed prior to installing a second furnace. Operation of the injection system will allow GCR to put the system through shakedown prior to construction of the new furnace. The slurry system will also allow GCR to process batteries and other lead-bearing materials that cannot be processed through the desulfurization system and may allow GCR to request an increase in production capacity on the existing furnace.

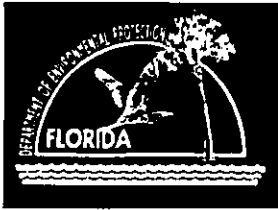
The characterization of the emissions from the current smelting operation will not change with the addition of the soda ash injection system, except to lower sulfur oxide emissions. Page 9 of the permit application addresses emissions from the entire facility. The only change requested at this time is an increase in facility-wide particulate emissions in the amount of 0.1 tons per year.

If you have any questions, please do not hesitate to contact me.

Sincerely,

GULF COAST RECYCLING, INC.


Joyce Morales-Caramella
Environmental & Health Manager



Department of Environmental Protection

Division of Air Resources Management

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APPLICATION FOR AIR PERMIT - TITLE V SOURCE

See Instructions for Form No. 62-210.900(1) JAN 22 2002

I. APPLICATION INFORMATION

EPC of HC
AIR MANAGEMENT

Identification of Facility

1. Facility Owner/Company Name: Gulf Coast Recycling, Inc.	
2. Site Name: Gulf Coast Recycling, Inc.	
3. Facility Identification Number: 0570057 [] Unknown	
4. Facility Location: Street Address or Other Locator: 1901 North 66 th Street City: Tampa County: Hillsborough Zip Code: 33619	
5. Relocatable Facility? [] Yes [X] No	6. Existing Permitted Facility? [X] Yes [] No

Application Contact

1. Name and Title of Application Contact: Ms. Joyce Morales-Caramella	
2. Application Contact Mailing Address: Organization/Firm: Gulf Coast Recycling, Inc Street Address: 1901 North 66 th Street City: Tampa State: FL Zip Code: 33619	
3. Application Contact Telephone Numbers: Telephone: (813) 626 - 6151 Fax: (813) 622 - 8388	

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	
2. Permit Number:	
3. PSD Number (if applicable):	
4. Siting Number (if applicable):	

Purpose of Application

Air Operation Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

-] Initial Title V air operation permit for an existing facility which is classified as a Title V source.
-] Initial Title V air operation permit for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.
Current construction permit number: _____
-] Title V air operation permit revision to address one or more newly constructed or modified emissions units addressed in this application.
Current construction permit number: _____
Operation permit number to be revised: _____
-] Title V air operation permit revision or administrative correction to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. (Also check Air Construction Permit Application below.)
Operation permit number to be revised/corrected: _____
-] Title V air operation permit revision for reasons other than construction or modification of an emissions unit. Give reason for the revision, e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.
Operation permit number to be revised: _____
Reason for revision: _____

Air Construction Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

-] Air construction permit to construct or modify one or more emissions units.
-] Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.
-] Air construction permit for one or more existing, but unpermitted, emissions units.

4. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain a Title V source air operation permit (check here [], if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [X], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Signature: _____

Date _____

(seal)

* Attach any exception to certification statement.

Construction/Modification Information

1. Description of Proposed Project or Alterations:

Addition of second soda ash silo to store bulk soda ash for SO₂ scrubbing system.

The only source of air contaminants will be the bulk storage silo.

Soda ash will be metered into a mixing tank to produce a slurry for reacting with SO₂ in the furnace ductwork prior to the baghouse. Furnace ductwork will be modified to include the installation of a reaction chamber, reaction sprays, pumps and associated piping and control instrumentation.

There will be no changes to the baghouse system, induced draft fans or stack.

2. Projected or Actual Date of Commencement of Construction: ASAP after permit issuance

3. Projected Date of Completion of Construction: 5 months after commencement

Application Comment

SO₂ scrubbing system will be used to demonstrate the ability to control SO₂ emissions prior to requests for additional furnace production limits and/or a construction application for an additional furnace system.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates:			
Zone: 17		East (km): 364.0	North (km): 3093.5
2. Facility Latitude/Longitude:			
Latitude (DD/MM/SS):		Longitude (DD/MM/SS):	
3. Governmental Facility Code:	4. Facility Status Code:	5. Facility Major Group SIC Code:	6. Facility SIC(s):
0	A	33	3341
7. Facility Comment (limit to 500 characters):			

Facility Contact

1. Name and Title of Facility Contact: Ms. Joyce Morales-Caramella		
2. Facility Contact Mailing Address:		
Organization/Firm: Gulf Coast Recycling, Inc.		
Street Address: 1901 North 66 th Street		
City: Tampa	State: FL	Zip Code: 33619
3. Facility Contact Telephone Numbers:		
Telephone: (813) 626 - 6151		Fax: (813) 622 - 8388

Facility Regulatory Classifications

Check all that apply:

1. <input type="checkbox"/> Small Business Stationary Source?	<input type="checkbox"/> Unknown
2. <input checked="" type="checkbox"/> Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?	
3. <input type="checkbox"/> Synthetic Minor Source of Pollutants Other than HAPs?	
4. <input type="checkbox"/> Major Source of Hazardous Air Pollutants (HAPs)?	
5. <input type="checkbox"/> Synthetic Minor Source of HAPs?	
6. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NSPS?	
7. <input checked="" type="checkbox"/> One or More Emission Units Subject to NESHAP?	
8. <input checked="" type="checkbox"/> Title V Source by EPA Designation?	
9. Facility Regulatory Classifications Comment (limit to 200 characters):	

List of Applicable Regulations

40 CFR 63 Subparts A & X	62-213 Major Source Op Permits
62-212.300 F.A.C.	62-297 Emissions Monitoring
62-296.603 F.A.C.	40 CFR 60.122(a)
62-296.700 F.A.C.	Core List
40 CFR 60.122(a)	
62-296.800 F.A.C.	
62-4.070(3) F.A.C.	
62-204 F.A.C. General Provisions	
62-210 F.A.C. Stationary Sources – General Requirements	
62-212 Stationary Sources – Preconstruction Review	

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap		4. Basis for Emissions Cap	5. Pollutant Comment
		lb/hour	tons/year		
PM	B		20.4	ESCPSD	
SO ₂	A		1015	ESCPSD	
NO _x	B		N/A		
CO	A		1400	ESCPSD	
VOC (THC)	A		116	ESCPSD	THC, as propane
Lead	B		< 2.0	ESCPSD	

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Area Map Showing Facility Location: <input checked="" type="checkbox"/> Attached, Document ID: <u> A </u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Facility Plot Plan: <input checked="" type="checkbox"/> Attached, Document ID: <u> B </u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Process Flow Diagram(s): <input checked="" type="checkbox"/> Attached, Document ID: <u> C </u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Fugitive Emissions Identification: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested Insignificant Potential For Fugitive Emissions
6. Supplemental Information for Construction Permit Application: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
7. Supplemental Requirements Comment: Please see Gulf Coast Recycling's existing fugitive emissions plan in your files.

Additional Supplemental Requirements for Title V Air Operation Permit Applications

8. List of Proposed Insignificant Activities: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. List of Equipment/Activities Regulated under Title VI: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Equipment/Activities On site but Not Required to be Individually Listed <input checked="" type="checkbox"/> Not Applicable
10. Alternative Methods of Operation: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
11. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Identification of Additional Applicable Requirements: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Risk Management Plan Verification: <input type="checkbox"/> Plan previously submitted to Chemical Emergency Preparedness and Prevention Office (CEPPO). Verification of submittal attached (Document ID: _____) or previously submitted to DEP (Date and DEP Office: _____) <input type="checkbox"/> Plan to be submitted to CEPPO (Date required: _____) <input checked="" type="checkbox"/> Not Applicable
14. Compliance Report and Plan: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Compliance Certification (Hard-copy Required): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

**A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)**

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one) <input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent). <input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions. <input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.			
2. Regulated or Unregulated Emissions Unit? (Check one) <input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit. <input type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.			
3. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Bulk Soda Ash Storage Silo			
4. Emissions Unit Identification Number: ID:		<input checked="" type="checkbox"/> No ID <input type="checkbox"/> ID Unknown	
5. Emissions Unit Status Code: A	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 33	8. Acid Rain Unit? <input type="checkbox"/>
4. Emissions Unit Comment: (Limit to 500 Characters) Bulk soda ash storage silo to feed soda ash to an SO2 reaction vessel. Silo is vented through a bin vent filter unit.			

Emissions Unit Control Equipment

<p>1. Control Equipment/Method Description (Limit to 200 characters per device or method):</p> <p style="margin-left: 40px;">Pulse jet cartridge dust collector bin vent for bulk soda ash silo with a capacity of 800 acfm.</p>
<p>2. Control Device or Method Code(s): 018</p>

Emissions Unit Details

<p>1. Package Unit: PulseJet Cartridge Dust Collector Manufacturer: WAM Corporation Model Number: FJS135</p>						
<p>2. Generator Nameplate Rating: N/A MW</p>						
<p>3. Incinerator Information:</p> <table style="width: 100%; margin-left: 100px;"> <tr> <td style="width: 60%;">Dwell Temperature:</td> <td style="width: 40%; text-align: right;">°F</td> </tr> <tr> <td>Dwell Time:</td> <td style="text-align: right;">seconds</td> </tr> <tr> <td>Incinerator Afterburner Temperature:</td> <td style="text-align: right;">°F</td> </tr> </table>	Dwell Temperature:	°F	Dwell Time:	seconds	Incinerator Afterburner Temperature:	°F
Dwell Temperature:	°F					
Dwell Time:	seconds					
Incinerator Afterburner Temperature:	°F					

**B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)**

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: N/A	mmBtu/hr
2. Maximum Incineration Rate: N/A	lb/hr tons/day
3. Maximum Process or Throughput Rate: Fill Rate - 20 Tons/Hr	
4. Maximum Production Rate:	
5. Requested Maximum Operating Schedule:	
4 hours/day	7 days/week
52 weeks/year	1456 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):	

**C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)**

List of Applicable Regulations

62-296.320 (4)(b) F.A.C.	
62-296.700 (2)(c) F.A.C.	

D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram?		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Exhaust vent from soda ash silo.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: Number not assigned			
5. Discharge Type Code: H	6. Stack Height: 28 feet	7. Exit Diameter: <1.0 feet	
8. Exit Temperature: ambient _F	9. Actual Volumetric Flow Rate: 800 acfm	10. Water Vapor: ambient %	
11. Maximum Dry Standard Flow Rate: approximately 800 dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 364.114 North (km): 3093.549			
14. Emission Point Comment (limit to 200 characters):			

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): 20 tons/hr soda ash input		
2. Source Classification Code (SCC):		3. SCC Units: Tons
5. Maximum Hourly Rate: 20 tons input to silo	5. Maximum Annual Rate: 16,640 Tons	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	018	000	EL

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: PM		2. Total Percent Efficiency of Control: +99%	
3. Potential Emissions: lb/hour < 0.1 tons/year		4. Synthetically Limited? [X]	
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 to tons/year			
6. Emission Factor: 0.005 gr/dscf Reference:		7. Emissions Method Code: 0	
8. Calculation of Emissions (limit to 600 characters): $0.011 \text{ gr/dscf} \times 800 \text{ dscfm} \times 60 \text{ min/hr} \text{ divided by } 7000 \text{ gr/lb} = 0.075 \text{ lb/hr}$ and $(0.075 \text{ lb/hr}) (1456 \text{ hrs/yr}) / 2000 \text{ lb/T} = 0.055 \text{ T/yr}$			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Negligible			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code: ESCPD		2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units: 0.1 lb/hr		4. Equivalent Allowable Emissions: 0.1 lb/hour 0.1 tons/year	
5. Method of Compliance (limit to 60 characters): Annual source testing using EPA Method 9			
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):			

**J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)**

Supplemental Requirements

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u>C</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input checked="" type="checkbox"/> Attached, Document ID: <u>D</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested (Existing silo salvaged from idled slag fixation process)
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable (All data previously submitted)
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

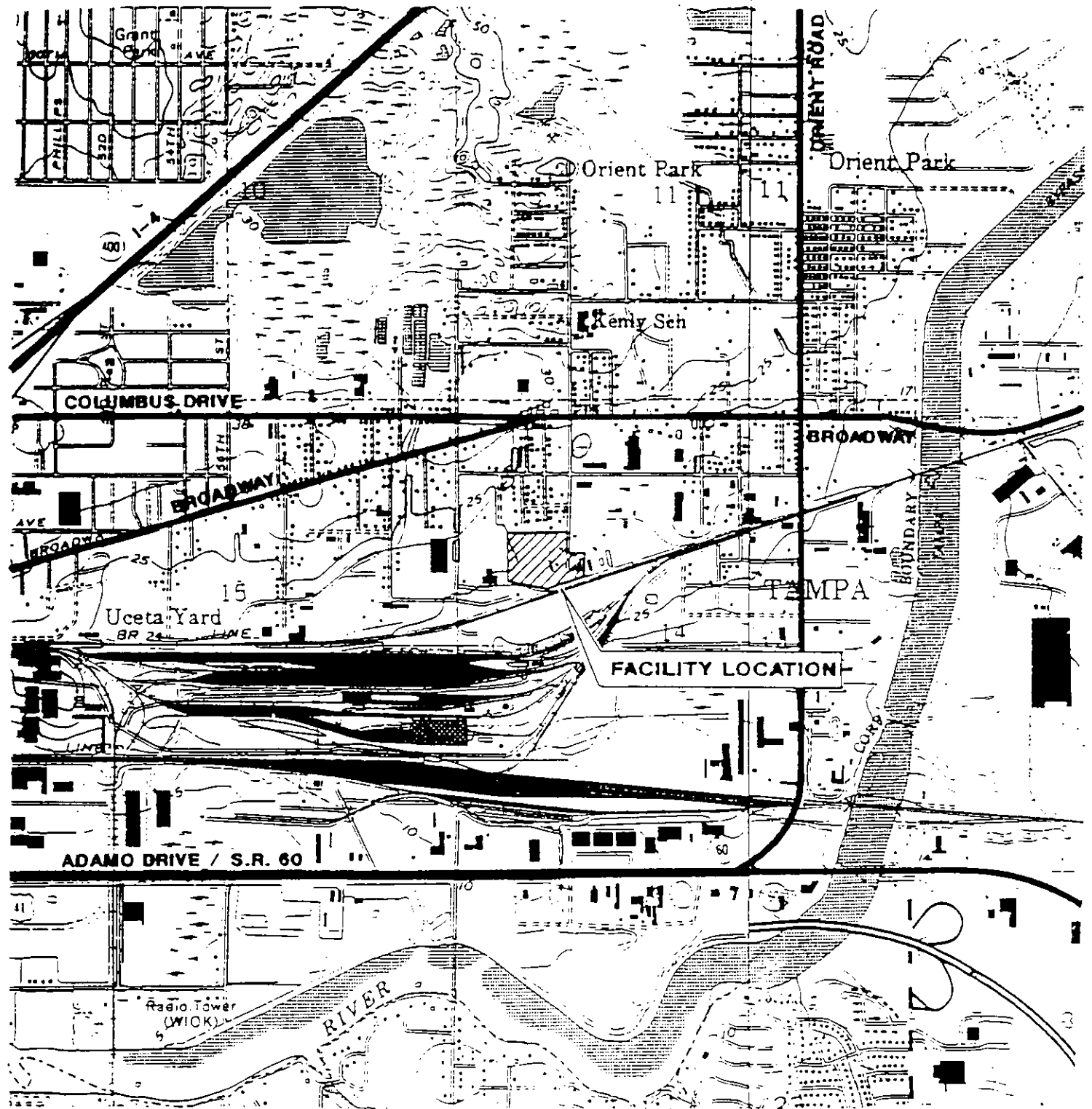
11. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Identification of Additional Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
14. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Acid Rain Part Application (Hard-copy Required) <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: _____ <input type="checkbox"/> Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

ATTACHMENT "A"

AREA MAP SHOWING
FACILITY LOCATION

TAMPA
QUADRANGLE

BRANDON
QUADRANGLE



T.293

SOURCE: USGS 7.5 MINUTE QUADRANGLES
TAMPA 1981
BRANDON 1987

R.19E.

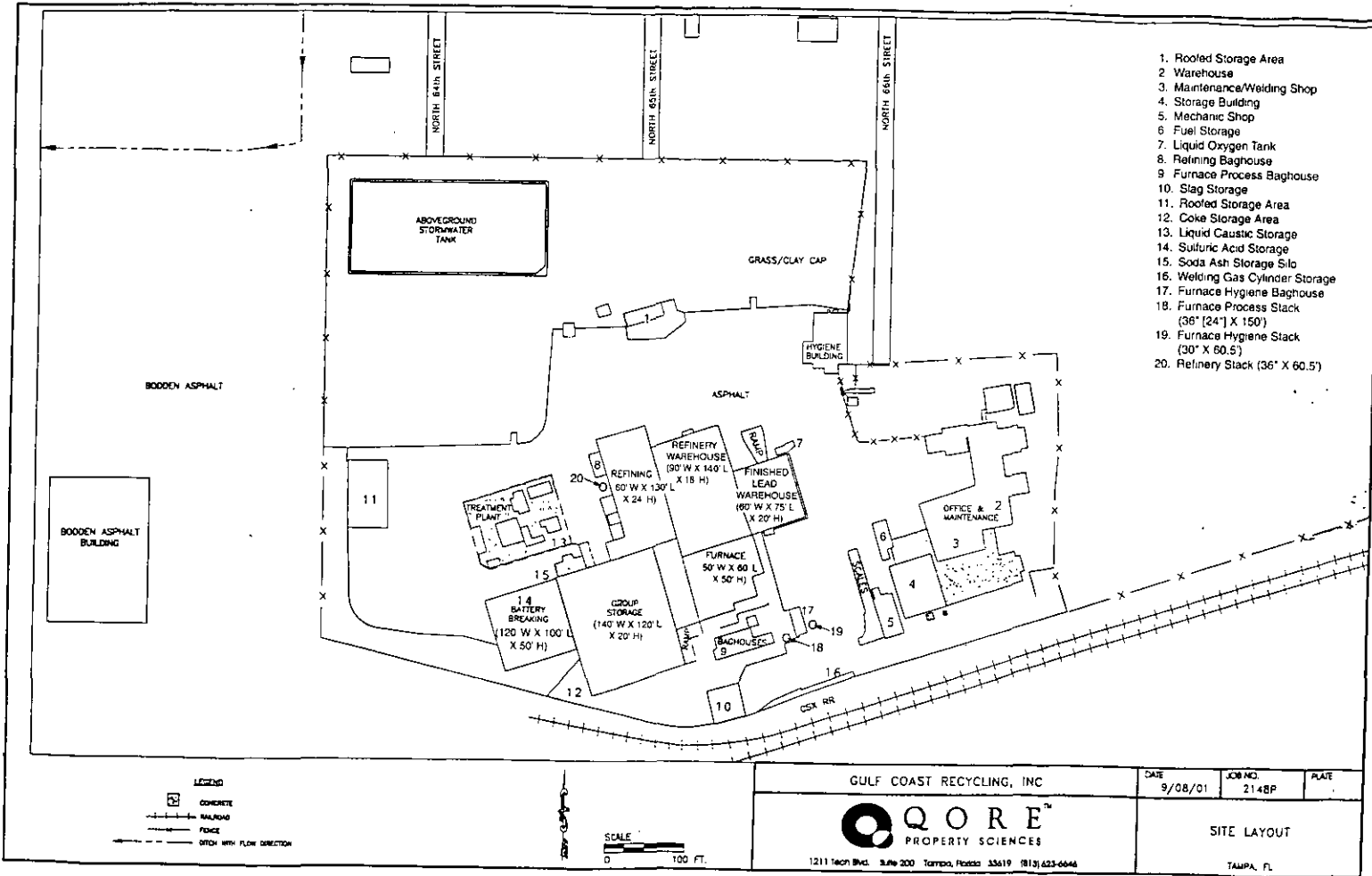
CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



GULF COAST RECYCLING, INC.
Facility Location

ATTACHMENT "B"

FACILITY PLOT PLAN



1. Roofed Storage Area
2. Warehouse
3. Maintenance/Welding Shop
4. Storage Building
5. Mechanic Shop
6. Fuel Storage
7. Liquid Oxygen Tank
8. Refining Baghouse
9. Furnace Process Baghouse
10. Slag Storage
11. Roofed Storage Area
12. Coke Storage Area
13. Liquid Caustic Storage
14. Sulfuric Acid Storage
15. Soda Ash Storage Silo
16. Welding Gas Cylinder Storage
17. Furnace Hygiene Baghouse
18. Furnace Process Stack (36" [24"] X 150')
19. Furnace Hygiene Stack (30" X 60.5')
20. Refinery Stack (36" X 60.5')

BOODEN ASPHALT

BOODEN ASPHALT BUILDING

NORTH 64th STREET

NORTH 64th STREET

NORTH 64th STREET

ABOVEGROUND STORMWATER TANK

GRASS/CLAY CAP

ASPHALT

HYGIENE BUILDING

TREATMENT PLANT

REFINERY WAREHOUSE (90' W X 140' L X 18' H)

FINISHED LEAD WAREHOUSE (80' W X 75' L X 20' H)

FURNACE (50' W X 80' L X 50' H)

OFFICE & MAINTENANCE

BATTERY BREAKING (120' W X 100' L X 50' H)

GROUP STORAGE (140' W X 120' L X 20' H)

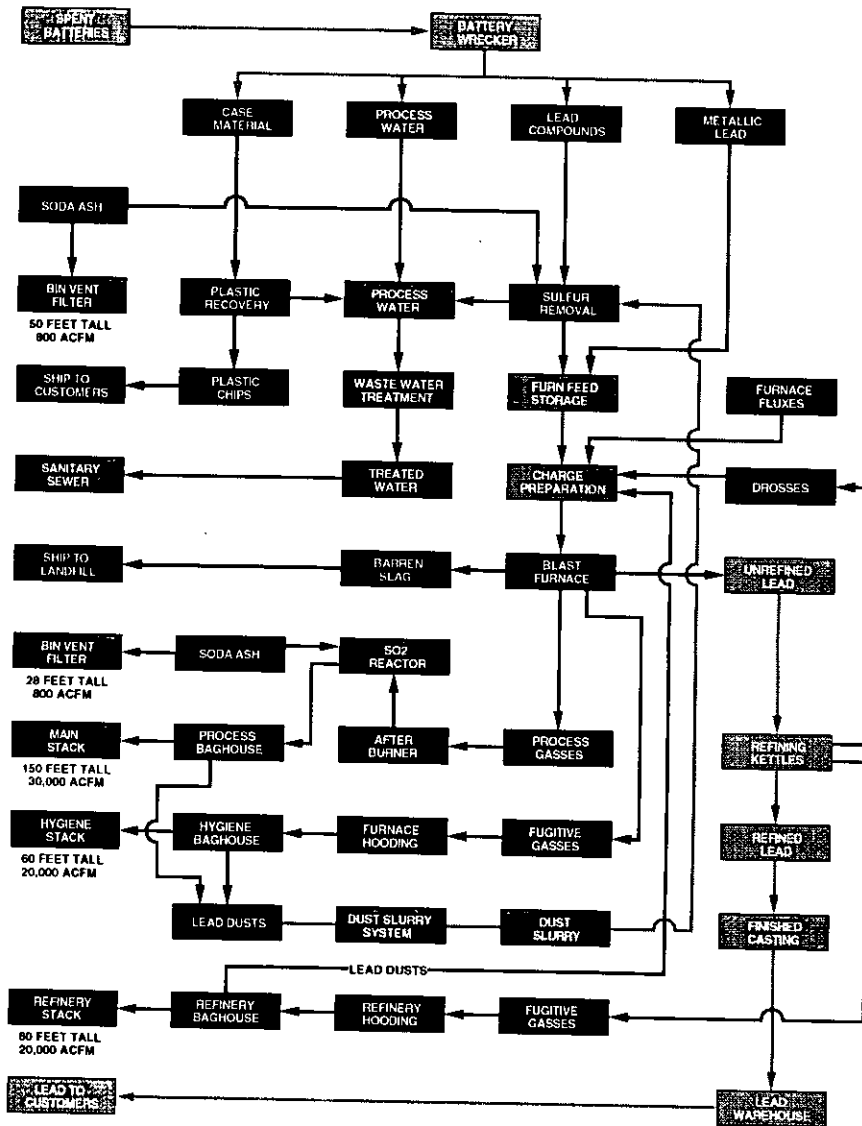
TECHNOLOGY

CSX RR

ATTACHMENT "C"
PROCESS FLOW DIAGRAM

GULF COAST RECYCLING, INC.

PROCESS FLOWCHART



ATTACHMENT "D"

DETAILED DESCRIPTION OF CONTROL EQUIPMENT

ATTACHMENT "D"
DESCRIPTION OF CONTROL EQUIPMENT

Potential emissions from the soda ash silo during loading will be controlled with a bin vent baghouse.

The bin vent baghouse will be designed to filter 800 acfm at a 6:1 air/cloth ratio using a pulse-jet cartridge filtration unit manufactured by WAM Corporation (Model # FJS-135). The exhaust will be through a diffuse opening of about 1 sq. ft. at height of 28' (above grade). Cartridge filtration area is 135 sq. ft.

Baghouse cleaning cycle will be manually activated. Cleaning cycle will be activated prior to commencement of silo filling operation, activated at the mid-point of filling, and activated again after filling is completed.

This silo and baghouse was previously used as part of the slag fixation operation which has been discontinued.