



Hidalgo County  
Office of Environmental Compliance  
1304 S. 25<sup>th</sup> St. Edinburg, Texas 78542  
(956)318-2840 Fax: (956) 318-2844

Ramon Garcia, County Judge  
Joel Quintanilla, Pct. 1  
Hector "Tito" Palacios, Pct. 2  
Joe M. Flores, Pct. 3  
Joseph Palacios, Pct. 4

Valde Guerra,  
Executive Officer

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May 21, 2012

Mr. Scott Green  
TCEQ IHW Permits Section, MC-130  
P.O. Box 13087  
Austin, TX 78711-3087

Re: Request for approval to operated Universal Waste Lamp Crusher to be located at Hidalgo County San Carlos Warehouse, Edinburg, Texas 78542 under 30 TAC §335.261(e)

Hidalgo County is submitting this request for approval to operate a Air Cycle Corporation Model 55-VRS-U Premium "Bulb Eater" for the purpose of crushing universal waste lamps under 30 TAC §335.261(e). This piece of equipment will be operated at our San Carlos Warehouse facility located approximately 0.12 miles north of Highway 107 on 86<sup>th</sup> Street in the community of San Carlos located east of the City of Edinburg, TX 78542 in an unincorporated area of Hidalgo County. Spent fluorescent lamps are generated from the county's various facilities on a regular basis and are being handled as a Universal Waste. Our Facilities Management Department will be responsible for operating the lamp crusher.

Attached is a description of how Hidalgo County will be handling universal waste lamps including the use of the above mentioned lamp crusher. A copy of the manufacturer's emissions sampling and evaluation report to demonstrate that mercury emission levels in the operator's breathing zone are less than 0.05 mg/m<sup>3</sup> as required along with the notification packet being submitted to the Air Permits for Permit by Rule 30 TAC §106.262 are also attached. Please contact me if there are any questions regarding this submittal at 956-318-2840 ext. 260 or at this email address: [martin.ramirez@hchd.org](mailto:martin.ramirez@hchd.org).

Sincerely

Martin Ramirez  
Hidalgo County Environmental Coordinator

Enclosures: Project Description, Manufacturer's Emissions Report, and Notification Packet for PBR 30 TAC 106.262

cc: Air Section Manager, TCEQ Harlingen Region 15 Office

*B. Sunday*  
15 May 2012



**Texas Commission on Environmental Quality  
Registration for Permits by Rule (PBR)  
Form PI-7 Submission Form**

The TCEQ **requires** that a complete Core Data Form bearing an original signature be submitted on all incoming applications unless a Regulated Entity and Customer Reference Number have been issued by the TCEQ and no core data information has changed. For more information regarding the Core Data Form, call (512) 239-5175 or go to the TCEQ Web site at [www.tceq.texas.gov/central\\_registry/guidance.html](http://www.tceq.texas.gov/central_registry/guidance.html).

<b>I. REGISTRANT INFORMATION</b>		
A. Company or other Legal Customer Name: Hidalgo County		
Company Official Contact Name: Ramon Garcia		
Title: County Judge		
Mailing Address: 100 E. Cano St.		
City: Edinburg	State: TX	ZIP Code: 78542-4582
Phone: 956-318-2600	Fax: 956-318-2699	E-mail:
B. Technical Contact Name: Martin Ramirez		
Title: Environmental Compliance Coordinator		
Company: Hidalgo County		
Mailing Address: 1304 S. 25th Ave.		
City: Edinburg	State: TX	ZIP Code: 78542-7205
Phone: 956-318-2840	Fax: 956-318-2844	E-mail: martin.ramirez@hchd.org
C. Facility Location Information – Street Address:		
<i>If "NO," street address provide written driving directions to the site: (attach description of additional space is needed)</i>		
0.12 miles north of Highway 107 on 86th Street in San Carlos at the Hidalgo County San Carlos Warehouse Site.		
City: Edinburg	County: Hidalgo	ZIP Code: 78542
D. Is the Core Data Form (TCEQ-Form 10400)?		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
If "NO," provide customer reference number (CN) and regulated entity number (RN) below:		
Customer Reference Number (CN):		
Regulated Entity Number (RN):		
<b>II. FACILITY AND SITE INFORMATION</b>		
A. Name and Type of Facility: Hidalgo County San Carlos Warehouse Site		<input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Portable
For portable units, please provide the serial number of the equipment being registered below:		
Serial No:	Serial No.:	



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II. FACILITY AND SITE INFORMATION <i>(continued)</i>	
<b>B. PBR claimed under 30 TAC § 106</b> (List all that apply)	
§ 106. 262	§ 106.
§ 106.	§ 106.
§ 106.	§ 106.
Are you claiming a <b>historical standard exemption or PBR?</b> <span style="float: right;"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</span>	
<i>If "YES," enter effective date(s) and rule number(s) in the spaces provided below:</i>	
<b>C. Is there a previous Standard Exemption or PBR for the facility in this registration?</b> <span style="float: right;"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</span>	
<i>If "YES," enter registration number(s), rule number(s) and effective dates in the spaces provided below:</i>	
<b>D. Are there any other facilities at this site which are authorized by an Air Standard Exemption or PBR?</b> <span style="float: right;"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</span>	
<i>If "YES," enter registration number(s), rule number(s) and effective dates in the spaces provided below.</i>	
<b>E. Are there any other air preconstruction permits at this site?</b> <span style="float: right;"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</span>	
<i>If "YES," enter permit number(s) in the spaces provided below.</i>	
Are there any other air preconstruction permits at this site that would be directly associated with this project? <span style="float: right;"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</span>	
<i>If "YES," enter permit number(s) in the spaces provided below.</i>	



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**II. FACILITY AND SITE INFORMATION (continued)**

F. Is this facility located at a site which is required to obtain a federal operating permit pursuant to 30 TAC Chapter 122?  YES  NO  To Be Determined

*If the site currently has an existing federal operating permit, enter the permit number in the space provided below:*

Identify the requirements of 30 TAC Chapter 122 that will be triggered if this claim is accepted: (check all that apply)

Initial Application for an FOP       Significant Revision for SOP       Minor Revision for SOP

Operational Flexibility/Off Permit Notification for an SOP       Revision for GOP

To be Determined       None

Identify the type(s) issued and/or FOP application(s) submitted/pending for the site: (check all that apply)

SOP     GOP     GOP application/revision application: (submitted or under APD review)

SOP application/revision application: (submitted or under APD review)       N/A

G. TCEQ Account Identification Number: (if known) \_\_\_\_\_

**III. FEE INFORMATION**

*See Section VI. for address to send fee or go to [www6.tceq.texas.gov/epay](http://www6.tceq.texas.gov/epay) to pay online.*

A. Is this registration an update to a previously registered facility and accompanied by a Form APD-CERT solely to establish a federally enforceable emission limit and will not authorize new facilities?  YES  NO

If "YES," a fee is not required.

If "NO," then go to Section III.B.

B. If "YES," to either of the following questions, a \$100 fee is required. Otherwise, a \$450 fee is required.

Does this business have less than 100 employees?  YES  NO

Does this business have less than 6 million dollars in annual gross receipts?  YES  NO

Is this registration submitted by a governmental entity with a population of less than 10,000?  YES  NO

C. Enter the check, money order, or transaction number (Payable to TCEQ). \_\_\_\_\_

Enter the individual or company name printed on the check. \_\_\_\_\_

Fee Amount (spell out): \_\_\_\_\_ \$

Was fee Paid online?  YES  NO



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<b>IV. SELECTED FACILITY REVIEWS ONLY—TECHNICAL INFORMATION</b>	
<i>Note: If claiming one of the following PBRs, complete this section, then skip to Section VI, "Submitting your registration" below:</i>	
<i>Animal Feeding Operations § 106.161, Livestock Auction Facilities § 106.162, Saw Mills § 106.223, Grain Handling, Storage and Drying § 106.283, Auto Body Refinishing Facilities § 106.436, Air Curtain Incinerator § 106.496</i>	
A. Is the applicable PBR checklist attached which shows the facility meets all general and specific requirements of the PBR(s) being claimed?	<input type="checkbox"/> YES <input type="checkbox"/> NO
B. Distance from this facility's emission release point to the nearest property line:	feet
Distance from this facility's emission release point to the nearest off-property structure:	feet
<b>V. TECHNICAL INFORMATION</b>	
<i>Registrants must be in compliance with all applicable state and federal regulations and standards to claim a PBR.</i>	
The following information must be submitted with this Form PI-7.	
Place a check next to the appropriate box to verify you have included it in the submittal.	
A. <input type="checkbox"/> Confidential Information ( <i>properly marked "CONFIDENTIAL"</i> )	
B. <input checked="" type="checkbox"/> Process Flow Diagram or Process Description	
C. <input checked="" type="checkbox"/> Emissions Data and Calculation	
D. <input checked="" type="checkbox"/> Information on meeting the specific PBR requirements. ( <i>PBR checklists maybe used and are optional.</i> )	
E. <input type="checkbox"/> Information on meeting the general PBR requirements 30 TAC 106.4. ( <i>PBR checklists maybe used and are optional.</i> )	
<i>Note: Please be reminded that if the facilities listed in this registration are subject to the Mass Emissions Cap &amp; Trade program under 30 TAC Chapter 101, Subchapter H, Division 3, the owner/operator of these facilities must possess NO<sub>x</sub> allowances equivalent to the actual NO<sub>x</sub> emissions from these facilities.</i>	
F. Distance from this facility's emission release point to the nearest property line:	116 feet
Distance from this facility's emission release point to the nearest off-property structure:	320 feet
<i>Note: In limited cases, a map or drawing of the site and surrounding land use may be requested during the technical review or at the request of the TCEQ Regional Office or local air pollution control program during an investigation.</i>	



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<b>VI. SUBMITTING YOUR REGISTRATION</b>		
<b>A. FEES – Pick one of the two options below for payment:</b>		
<i>Who</i>	<i>here</i>	<i>What</i>
1. Fee Paid Online	<b>Go to Website</b> <a href="http://www6.tceq.texas.gov/epay">www6.tceq.texas.gov/epay</a>	No Additional Action Needed
2. Fee Mailed to Revenue Section, TCEQ	Regular, Certified, Priority Mail MC 214, P.O. Box 13088 Austin, Texas 78711-3088 <b>Hand Delivery, Overnight Mail</b> MC 214, 12100 Park 35 Circle, Building A, Third Floor, Austin, Texas 78753	Original fee payment Copy of Form PI-7 Copy of Core Data Form
<b>B. COPIES OF THE REGISTRATION – Copies must be sent as listed below:</b>		
Processing delays may occur if copies are not sent as noted.		
1. Hard Copy Only Air Permits Initial Review Team (APIRT)	Regular, Certified, Priority Mail MC 161, P.O. Box 13087 Austin, Texas 78711-3087 <b>Hand Delivery, Overnight Mail</b> MC 161, 12100 Park 35 Circle, Building C, Third Floor, Austin, Texas 78753 Fax No.: (512) 239-2123 <i>(do not follow fax with paper copies)</i>	Original Form PI-7 Original Signature Core Data Form Copy of fee payment All attachments
2. Appropriate local and TCEQ Regional Office Programs	To Find your local or Regional Air Pollution Control Programs go to the TCEQ, APD Website at <a href="http://www.tceq.texas.gov/nav/permits/air_permits.html">www.tceq.texas.gov/nav/permits/air_permits.html</a> or call (512) 239-1250	Copy of Form PI-7 Copy of Core Data Form All attachments to each office.
3. Print		Prints a Hard Copy of the Form PI-7



**Title 30 Texas Administrative Code § 106.262  
Permit by Rule (PBR) Checklist  
Facilities (Emission and Distance Limitations)**

The following checklist is designed to help you confirm that you meet Title 30 Texas Administrative Code § 106.262 (30 TAC § 106.262) requirements. If you do not meet all the requirements, you may alter the project design or operation in such a way that all the requirements of the PBR are met or you may obtain a construction permit. The PBR forms, tables, checklists and guidance documents are available from the Texas Commission on Environmental Quality (TCEQ), Air Permits Division Web site at, [www.tceq.state.tx.us/nav/permits/air\\_permits.html](http://www.tceq.state.tx.us/nav/permits/air_permits.html).

CHECK THE MOST APPROPRIATE ANSWER			
Is a description or checklist of how this claim meets the general requirements for the use of PBRs in 30 TAC § 106.4 attached?		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
b1.	Is this claim for construction of a facility authorized in another section of this chapter or for which a standard permit is in effect? <i>If "YES," this PBR cannot be used to authorize emissions from the project.</i>	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
b2.	Is this claim for any change to any facility authorized under another section of this chapter or authorized under a standard perm? <i>If "YES," this PBR cannot be used to authorize emissions from the project.</i>	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
c.	Is the facility authorized under another section of this chapter or under a standard permit? <i>If "YES," subsection (a)(2) and (3) of this section may be used to qualify the use of other chemicals at the facility.</i>	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
a1.	Are facilities or changes located at least 100 feet from any recreational area or residence or other structure not occupied or used solely by the owner or operator of the facilities or the owner of the property upon which the facilities are located?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
a2.	Are new or increased emissions, including fugitives, emitted in a quantity less than five tons per year or in a quantity less than E as determined by using the equation $E=L/K$ ? See Table 262 Figures 1 and 2. <i>If "YES," the notification shall include a description of the project, calculations for all emissions being claimed under this PBR:</i>	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
Chemical: <u>Mercury</u> L value: <u>0.025 mg/m<sup>3</sup></u> D: <u>320 Ft</u> K: <u>148</u>			
a3.	Is this checklist attached to a Form PI-7 within ten days following the installation or modification of the facilities? <i>If "YES," the notification shall include a description of the project, calculations, and data identifying specific chemical names, L values, and a description of pollution control equipment, if any.</i>	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
a4.	Are one or more of the following chemicals is handled for this registration? (Check all that apply) <i>If "YES," answer the following four questions.</i>	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
<input type="checkbox"/> acrolein	<input type="checkbox"/> diazomethane	<input type="checkbox"/> hydrogen sulfide	<input type="checkbox"/> ozone
<input type="checkbox"/> allyl chloride	<input type="checkbox"/> diborane	<input type="checkbox"/> ketene	<input type="checkbox"/> pentaborne
<input type="checkbox"/> ammonia (anhydrous)	<input type="checkbox"/> diglycidyl ether	<input type="checkbox"/> methylamine	<input type="checkbox"/> perchloromethyl mercaptan
<input type="checkbox"/> arsine	<input type="checkbox"/> dimethylhydrazine	<input type="checkbox"/> methyl bromide	<input type="checkbox"/> perchloryl fluoride
<input type="checkbox"/> boron trifluoride	<input type="checkbox"/> ethyleneimine	<input type="checkbox"/> methyl hydrazine	<input type="checkbox"/> phosgene
<input type="checkbox"/> bromine	<input type="checkbox"/> ethyl mercaptan	<input type="checkbox"/> methyl isocyanate	<input type="checkbox"/> phosphine
<input type="checkbox"/> carbon disulfide	<input type="checkbox"/> fluorine	<input type="checkbox"/> methyl mercaptan	<input type="checkbox"/> phosphorus trichloride
<input type="checkbox"/> chlorine	<input type="checkbox"/> formaldehyde (anhydrous)	<input type="checkbox"/> nickel carbonyl	<input type="checkbox"/> selenium
<input type="checkbox"/> chlorine dioxide	<input type="checkbox"/> hydrogen bromide	<input type="checkbox"/> nitric acid	<input type="checkbox"/> hexafluoride stibine
<input type="checkbox"/> chlorine trifluoride	<input type="checkbox"/> hydrogen chloride	<input type="checkbox"/> nitric oxide	<input type="checkbox"/> liquefied sulfur dioxide
<input type="checkbox"/> chloroacetaldehyde	<input type="checkbox"/> hydrogen cyanide	<input type="checkbox"/> nitrogen dioxide	<input type="checkbox"/> sulfur pentafluorid
<input type="checkbox"/> chloropicrin	<input type="checkbox"/> hydrogen fluoride	<input type="checkbox"/> oxygen difluoride	<input type="checkbox"/> tellurium hexafluoride
<input type="checkbox"/> chloroprene	<input type="checkbox"/> hydrogen selenide		



**Title 30 Texas Administrative Code § 106.262  
Permit by Rule (PBR) Checklist  
Facilities (Emission and Distance Limitations)**

CHECK THE MOST APPROPRIATE ANSWER		
Are all facilities are located at least 300 feet from the nearest property line and 600 feet from any off-plant receptor?	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
Are the cumulative amount of any of the following chemicals resulting from one or more authorizations under this section (but not including permit authorizations) less than or equal to 500 pounds on the plant property?	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
Are all listed chemicals handled only in unheated containers operated in compliance with the United States Department of Transportation regulation (49 Code of Federal Regulation, Parts 171-178)?	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
Are any changes to or additions of any existing air pollution abatement equipment?	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
a5. Are there any changes to or additions of any existing air pollution abatement equipment?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
a6. Will there be any visible emissions, except uncombined water, emitted to the atmosphere from any point or fugitive source in amounts greater that 5.0% opacity in any six-minute period?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A

D, Feet	K	
100	326	E=maximum allowable hourly emission, and never to exceed 6 pounds per hour.
200	200	
300	139	
400	104	
600	65	
700	54	
800	46	K=value from the table on this page. (interpolate intermediate values)
900	39	
1,000	34	
2,000	14	D=distance to the nearest off-plant receptor
3,000 or more	8	

**TABLE 262**  
**LIMIT VALUES (L) FOR USE WITH EXEMPTIONS FROM PERMITTING § 106.262**

The values are not to be interpreted as acceptable health affects values relative to the issuance of any permits under Chapter 116 of this title (relating to Control of Air Pollution by Permits for new Construction or Modification).

<u>Compound</u>	<u>Limit (L) Milligrams Per Cubic Meter</u>
Acetone	590.
Acetaldehyde	9.
Acetone	4.
Acetonitrile	34.
Acetylene	2662.
N-Amyl Acetate	2.7
Sec-Amyl Acetate	1.1
Benzene	3.
Beryllium and Compounds	0.0005
Boron Trifluoride, as HF	0.5
Butyl Alcohol,	76.
Butyl Acrylate	19.
Butyl Chromate	0.01
Butyl Glycidyl Ether	30.
Butyl Mercaptain	0.3
Butyraldehyde	1.4
Butyric Acid	1.8
Butyronitrile	22.
Carbon Tetrachloride	12.
Chloroform	10.
Chlorophenol	0.2
Chloroprene	3.6
Chromic Acid	0.01
Chromium Metal, Chromium II and III Compounds	0.1
Chromium VI Compounds	0.01
Coal Tar Pitch Volatiles	0.1
Creosote	0.1
Cresol	0.5
Cumene	50.
Dicyclopentadiene	3.1
Diethylaminoethanol	5.5
Diisobutyl Ketone	63.9
Dimethyl Aniline	6.4
Dioxane	3.6

<u>Compound</u>	<u>Limit (L) Milligrams Per Cubic Meter</u>
Dipropylamine	8.4
Ethyl Acrylate	0.5
Ethylene Dibromide	0.38
Ethylene Glycol	26.
Ethylene Glycol Dinitrate	0.1
Ethylidene 2-norbornene, 5-	7.
Ethyl Mercaptan	0.08
Ethyl Sulfide	1.6
Glycolonitrile	5.
Halothane	16.
Heptane	350.
Hexanediamine, 1, 6-	0.32
Hydrogen Chloride	1.
Hydrogen Fluoride	0.5
Hydrogen Sulfide	1.1
Isoamyl Acetate	133.
Isoamyl Alcohol	15.
Isobutyronitrile	22.
Kepone	0.001
Kerosene	100.
Malononitrile	8.
Mesityl Oxide	40.
Methyl Acrylate	5.8
Methyl Amyl Ketone	9.4
Methyl-T-Butyl Ether	45.
Methyl Butyl Ketone	4.
Methyl Disulfide	2.2
Methylenebis (2-chloroaniline) (MOCA)	0.003
Methylene Chloride	26.
Methyl Isoamyl Ketone	5.6
Methyl Mercaptan	0.2
Merthyl Methacrylate	34.
Methyl Propyl Ketone	530.
Methyl Sulfide	0.3
Mineral Spirits	350.
Naphtha	350.
Nickel, Inorganic Compounds	0.015
Nitroglycerine	0.1

<u>Compound</u>	<u>Limit (L) Milligrams Per Cubic Meter</u>
Nitropropane	5.
Octane	350.
Parathion	0.05
Pentane	350.
Perchloroethylene	33.5
Petroleum Ether	350.
Phenyl Mercaptan	0.4
Propionitrile	14.
Propyl Acetate	62.6
Propylene Oxide	20.
Propyl Mercaptan	0.23
Silica-amorphous-precipitated, silica gel	4.
Silicon Carbide	4.
Stoddard Solvent	350.
Styrene	21.
Succinonitrile	20.
Tolidin	0.02
Trichloroethylene	135.
Trinethylamine	0.1
Valeric Acid	0.34
Vinyl Acetate	15.
Vinyl Chloride	2.

NOTE: The time weighted average (TWA) threshold Limit Value (TLV) published by the American Conference of Governmental Industrial Hygienists (ACGIH), in its TLVs and BEIs guide (1997 Edition) shall be used for compounds not included in the table. The Short Term Exposure Level (STEL) or Ceiling Limit (annotated with a "C") published by the ACGIH shall be used for compounds that do not have a published TWA TLV. This section cannot be used if the compound is not listed in the table or does not have a published TWA TLV, STEL, or Ceiling Limit in the ACGIH TLVs and BEIs guide.