Item Barcode: 66098660

Attachment #1 **AIR PERMIT** FOLDER LEVEL

AIR PA #:	NA00010	NEED NO	
File Type:	PERMITS		<u></u>
Volume:	001	2002	
Inclusive Dates:	<u> 1/1/2002 - 1</u>	2002 2/31/ 2004	
Media	a Code/ Form		Microfiche Roll Microfilm

Electronic Image

Files appearing on this roll of microfilm/ electronic image were filmed/ scanned as received and per instructions from the Texas Commission on Environmental Quality's Records Managemgent Coordinator, Kate Fitzpatrick.

Box Barcode:

	\cap \cap -	
Dbe	NSR Permit/Registration Application Processing Checklist	
	Application/Permitting Request date stamped on Team received date.	
	Verified appropriate and current application PI form or letter.	-
	Application Entered into IMS on Received Date, no later than Noon and PSDB the same day (see NSR guidance information for manditory entry fields for IMS and PSDB)	ŗ
	researched site specific account number to complete entry researched applications to ensure not duplicate entry (call tech staff or applicant if necessary to confirm)	;
•	PBR's, use the same registration number).	
	PSDB entry not applicable for SB1126(SB26), Alterations (CRVN or PRVN), X Letters (XLTR), ESOC, e	tc.
	Prepared and faxed Account Request Form (if applicable).	÷
	 placed copy of fax confirmation and ARF in application file updated IMS tracking element code to indicate date ARF sent 	
	made sure the Account Number request indicates the appropriate contact for returning the number	•
•	updated the Account Number in IMS and PSDB ARF not applicable	
<u> </u>		
9	Prepared file folder (Applies to all application types to ensure the complete package with Mikey stays together in tra	nsit.)
Ô	Used appropriate labels for specified for PBR, Permitting and Confidential folders	
Ø	Printed File label contains the: Name	
	County Account Number	
	Registration/Permit No.	
	Prepared Confidential file folder	
	stamped folder with confidential stamp and cross-reference confidential materials in open file	
	 prepared file label to indicate confidential documents confidential file not applicable 	
	, Point Source data base (PSDB) Permit Summary has been placed in file	
	PSDB not applicable	
. 6	Mikey has been placed in file.	
D	Problems for Phase 2 to address as noted above. Notes:	
	Multiple Project Records (Mikies) Included. (Make sure each project record is updated throughout the process.) (Account Nos. starting with "9" for portable facilities usually have the multiple projects)	
Phase	e 2 not required for:	
	ØNon-Registered PBR (Xltr),	
	Extension of Construction, and Start of Operation	
	Other	
		

Place project in chronologic date by project type to begin phase 2; or, If phase 2 is not required place with outgoing projects.

		O O
Phase		
	Prepare	ed and faxed Site Review/Request for Comment (see processing chart) placed copy of fax confirmation and SR/RFC in application file made sure the SR/RFC request indicated the appropriate contact for returning the review sent SR/RFC to appropriate local program if applicable Entered IMS SR/RFC and local program tracking elements and date sent in IMS SR/RFC not applicable
ū	Applica applica	ant indicated copies of application were sent to appropriate regional office and other entities as required on tion. If no, called applicant to request copies be sent as required and document phone call on attached phone memo.
		d original signature on application. Applies only to PI-1 forms PBRs are acceptable.)
	Verifie	d fee Payment and updated amount and date in IMS (see processing chart for applicability) placed fee receipt in application folder fee not applicable
G		d Applicants' Legal Name as needed (using guidance document & check name on log in our team directory file Secretary of State) Spelling of applicants' legal name is correct on application
		G For Individuals, complete name of individual has been provided.
		 For Companies, complete legal name as registered with SOS have been provided. Charter number as provided by SOS
		Status confirmed as Active with SOS
		If charter number not provided and name does not match with SOS filing:
		Called applicant to confirm correct information
		Documented information provided by SOS on phone memo in file.
		Governmental Agency (City, County, Federal etc.) (no verification required but use consistent entry of full name in IMS and PSDB)
	D	Documented confirmation from applicant of correct legal name or other information on phone memo in file.
Deficie	ncies wit	th applications:
Denete		Noted phone call(s) on attached memo documenting requested information and response (put date by each call).
		Entered date of phone call in IMS using the admin deficient tracking element, then the A-telcom for additional
	4	calls.

- Entered tracking element and date when applicant responds to request for information
- Public Notice not Applicable (see processing chart for applicability)

For Amendment Applications where Public Notice is not applicable: Prepared State Rep and Senate Letter (HB2518 requirement)

Continuation of Phase The following items only apply to projects requiring public notice:

- For Permits with terms, confirmed that the permit has not expired.
 - Permits expired must be process for a new permit
 Referral to Enforcement for submitting a renewal
 - Referral to Enforcement for submitting a renewal after permit expiration date has been initiated.
- Verified appropriate notice information has been provided (if applicable). (Ensure the applicant provides any corrections or updates to the application in writing (fax or hard copy). Do not fill in any part of the application yourself)
 - public place for viewing and copying application in county where located is provided
 - person representing applicant identified as contact in public notice
 - person responsible for publishing notice identified
- Prepared public notice package as checked off below:

right side of folder in following order included:

- Legislative notification letters and envelopes
- D
 Public Notice Cover Letter to Applicant
- Public Notice and Sign Postings (Examples)
- □ Instructions & Affidavits
- Address Labels
- Contacts Sheet (Blue paper)
- □ Spanish Shell provided (if applicable)

left side of folder in following order included:

- Application Routing information (Blue paper)
- **G** fax confirmation sheet
- written note on fax confirmation indicating person you spoke with confirming fax as received, date and time of call
- C copy of fax to review draft notice
- copy of Bilingual Notice Determination sheet fax with draft notice language (for CCO to know to expect bilingual notice)

Prepared fax with draft public notice and sent to applicant for confirmation.

- called applicant to ensure receipt of fax and need to follow up (stress sense of urgency-give 24 hour due date)
- placed copy of confirmation fax in the permit application folder
- faxed spanish notice shell to applicant if confirmation fax indicates required. If other language, indicate applicant's responsibility to have translated.

Confirmed IMS updates and tracking elements with dates as indicated (as applicable):

- Enter tracking element in IMS for Site Review using A-Site Review and date sent α
 - Enter tracking element in IMS for Request for Comment using A-RFC and date sent

Enter Local Program Site Review/RFC using appropriate local program tracking element in IMS and date sent

- Enter Account Number (ARF) tracking element in IMS
- D Entered Account number assigned by Region & Portable assigned by Team
- D Admin Def. date/phone calls for information or clarification - tracking element A-Admin Def Ltr Sent
- Additional phone calls date using A-TELCOM

П

- D Enter date of response received from applicant using tracking element A-Admin Def Ltr Reply
- Verified Applicant and Contact information for accuracy
- Verified entry of applicant's legal name, to be correct spelling, in IMS & PSDB
- PAR transfer date

The following tracking elements in IMS are only required when Public notice is required:

- Enter A-Comp History RFC for Compliance History request and enter date sent
- Enter A-ADMIN Comp w/Notice and admin complete date
- Enter A-Admincomp tracking element and Admin Complete date
- Entered A-PN Draft when draft public notice was faxed
- Entered A-PN Draft Approved when you receive approval of the draft from applicant

Documentation of Requests for Additional Information Telephone Memo to the File

Call To:	
Call From:	
File No:	
Applicant Name:	
Phone number :	
······	
· ·	
· · · · · · · · · · · · · · · · · · ·	
	•

Robert J. Huston, *Chairman* R. B. "Ralph" Marquez, *Commissioner* Kathleen Hartnett White, *Commissioner* Jeffrey A. Saitas, *Executive Director*

t



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

March 1, 2002

RECORD 86306

Mr. Garth Taylor Acme Brick Company 2821 West 7th Street Fort Worth, Texas 76107

Re: Permit by Rule Registration Garrison Plant Garrison, Nacogdoches County Account Number: NA-0001-O

Dear Mr. Taylor:

This is in response to your Form PI-7 (Permit by Rule) concerning the proposed installation of a 5,000,000 btu/hr supplemental hear burner (Facility Identification No. 47) in the facility holding room at 257 Brickyard Road, Garrison, Nacogdoches County. We understand that emissions from this project are estimated at 2.15 tons per year (tpy) of nitrogen oxides, 0.12 tpy of volatile organic compounds, 1.8 tpy of carbon monoxide, 0.01 tpy of sulfur dioxide, and 0.16 tpy of particulate matter.

After evaluation of the information which you have furnished, we have determined that your proposed installation is authorized under Title 30 Texas Administrative Code (TAC) Section 106.183 if constructed and operated as described in your registration request. This permit by rule was authorized by the Texas Natural Resource Conservation Commission (TNRCC) pursuant to 30 TAC Chapter 106.

A copy of the permit by rule in effect at the time of this registration is enclosed. You must construct, install, or modify facilities in accordance with the version of the permit(s) by rule in effect when construction, installation, or modification actually begins (see 30 TAC § 106.4[a][5]). After completion of construction, installation, or modification, the facility shall be operated in compliance with all the applicable conditions of the claimed permits by rule and 30 TAC § 106.4.

You are reminded that regardless of whether a permit is required, these facilities must be in compliance with all rules and regulations of the TNRCC and of the U.S. Environmental Protection Agency at all times.

Ο

Mr. Garth Taylor Page 2 March 1, 2002

Re: Permit by Rule Registration

Your cooperation in this matter is appreciated. If you have any questions concerning this permit by rule, please call Ms. Helen Tewolde-Berhan at (713) 422-8915 or write to the Texas Natural Resource Conservation Commission, Office of Permitting, Remediation, and Registration, Air Permits Division (MC-162), P.O. Box 13087, Austin, Texas 78711-3087.

for John C. So. Sincerely,

Duncan F. Stewart, P.E., Manager Permit By Rule/General Operating Permits Section Air Permits Division Texas Natural Resource Conservation Commission

DS/HT/pl

Enclosure

cc: Mr. Marion Everhart, Air Program Manager, Region 10 - Beaumont

AIR PERMIT BY RULE REVIEW

Reg. No. <u>X</u>	Record No. <u>86306</u>	Account. No. <u>NA-0001-O</u>	Date Rec'd [PAR] 1/8/02
Company: <u>ACM</u>	E Brick Company	County: Nacogodoches	Date Rec'd [ENG] <u>1/18/02</u>
Contact Name: <u>N</u>	<u>Mr. Garth Taylor</u>	Phone/Fax Nos.: (817)332-41	01/(817)390-2483

General Rules Check:

- * Project Emissions Acceptable? Y
- * PSD/Non-attainment Netting Req'd? N
- * Sitewide PBR Emissions Acceptable? Y
- * Limits on use of PBRs at this site? N
- * NSPS/NESHAPS/MACT Standards Apply? N
- * Compliance with all other applicable rules and regulations? Y

Overall Site/Unit Description: Registration of the Garrison Plant under §106.183.

Project Sources/Facilities, PBRs Claimed, Applicable Standards, Emissions and Control Summary:

ACME Brick Company is proposing to install a 5,000,000 btu/hr supplemental hear burner (FIN 47) in the facility holding room at 257 Brickyard Road, Garrison, Nacogdoches County. This burner will heat the ambient air to a maximum temperature of 130 degrees Fahrenheit. There are two vent stacks associated with the holding room (EPN's 17B and 17C). The only pollutants are products of combustion from sweet natural gas. Emissions were quantified using AP-42 (Tables 1.4-1 and 1.4-2).

- 1. The facility is not a stationary IC engine or turbine.
- 2. The only emissions from this unit will be products of combustion.
- 3. The burner has a maximum heat input of 40 million BTU/hour or less (5 MMBtu/hr) with the fuel being sweet natural gas.
- 3. N/A. The burner does not use distillate fuel oil as backup fuel.

Site Review Required? N

Public Notice Required? N

PSD/Non-attainment Netting Required? N: The emissions associated with this project are estimated at 2.18 tpy of NOx, 0.12 tpy of VOC, 1.8 tpy of CO, 0.01 tpy of SO₂ and 0.16 tpy of PM.

Emissions Savings / Reductions due to rule compliance: None

Are all general and specific applicable rule conditions satisfied? Y

Does this registration require a 30 TAC Chapter 60 Compliance History review? NA

If yes, should the PBR claim be denied on the basis of the compliance history review results? Yes No

Reviewer: Helen Tewolde-Berhan Date: February 20th, 2002 Team Leader/Backup Engineer: Emmanuel Ukandu

Interim New Source Ro	eview Permi g IMS		\mathbf{O}	Page 1 of 1
04/11/2002 NS	R PERMITS IMS PROJE	CT RECORD		
PROJECT#: 86306	PERMIT#: X	STATUS: X	DISP CODE:	
RECEIVED: 01/08/2002	PROJTYPE: XLTR		ISSUED DATE: 03/01/2002	
FEE DATE: GROUP: PAR	FEE AMT: \$ 0	STDX1/SP: 183	SUP-DISP DATE: 03	/01/2002
PARSTAFF1 : OFARREL	L, JOHN			
GROUP: HRT				
TECHENGR : TEWOLDE	E-BERHAN, HELEN		,	
ADMIN REVIEW			1000	
A - PAR RECEIVED :	01/08/2002 A - PARTRA	ANS : 01/09/2		
ISSUED TO: ACME BRIC CUSTOMER REGISTRY	ı			
PRIMARY CONTACT I	NFORMATION			
CONTACT TYPE: RESPO				,
NAME: MR GARTH TAY		TITLE: NA		
PHONE: 817-332-4101 ex STREET: 2821 W 7TH ST		FAX: 817-390-2483	FORT WORTH, TX , 76107-	
PROJECT INFORMATI UNIT: GARRISON PLAN				
SIC: 0	REGION: 10	ACCOUNT: NA00	010 REG ENTITY ID:	
COUNTY: NACOGDOCHES	CAPUNITS:	UNITTYPE:		
CAPACITY:	CITY: GARRISON			
LOCATION: 257 BRICKY	YARD RD			
PUBLIC NOTICE PUBLIC NOTICE REQUI	RED?: N PN1 ALT LAN	GUAGE: NO PN2 A	ALT LANGUAGE: NO	
EMISSION RATES				
PROJECT NOTES	аланын жалы жанаа ал а	ne for an ann an an Arlan an an Arlan ann an Arlan an Arl		********
TECHNICAL ACTIVIT	Y HISTORY		n na na sana ana ana ana ana ana ana ana	
PBR - REMOTE REC :	01/11/2002 PBR - ASSIG	GNED: 01/18/2	2002 PBR - ENGINEER REC :	01/18/2002
PBR - TO AUSTIN :	01/22/2002 PBR - TO TH	EAM LDR : 02/20/2	2002 SUP - PROJECT ISSUED	: 03/01/2002
PROJECT ATTRIBUTE	S .	48.000000000000000000000000000000000000		
PROJECT LINK				
PROJECTS/PERMITS V	/OIDANCE	ning yn yn yn ar hynnynger yn an an ar ar far ar yn yn yn yn ar yn ar yn ar yn y Yn yn		
	· .			

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION FORM PI-7, REGISTRATION FOR PERMITS BY RULE

a hard copy of the registration must be sent to the appropriate TNRCC regional office.

Other written inquiries may be addressed to: TNRCC, Air Permits Division, MC 162, P.O. Box 13087, Austin TX 78711-3087.

Customers may use the TNRCC web site to determine registration receipt and status throughout the process, as well as obtain guidance and additional documents relating to air permitting:

http://www.tnrcc.state.tx.us/permitting/airperm/index.html. For questions relating to the initial receipt and administrative review of the registration, please contact the Air & Waste Applications Team at (512) 239-5160, Fax: (512) 239-2123. For questions relating to the technical review or any other questions relating to air permitting, please contact the Air Permits Division at (512) 239-1240, Fax: (512) 239-1300.

I. RI	EGISTR	ANT INF	ORMATION							
A.	Registr	ant Comp	any Name: Acm	ne Brick C	Company					
B.	Technie	cal Conta	ct Name & Title	: MikeO'	Connor -	Environ	mental M	anager		
	Compa	ny (if diff	ferent from abov	e):						
	Mailing	g Address	: 2821 West 7 th S	Street						
	City:	Ft Wort	h		State:	• TX			Zip Code: 76107	
	Telepho	one:	817-332-4101		Fax:	817-39	0-2483		E-mail:	
C.	TNRC	C Custom	er Reference Nu	mber (if)	known):					
D.	TNRC	C Regulat	ed Entity Refere	nce Num	ber (if kn	own):				
E.	TNRC	C Accoun	t Identification 1	Number (if known)	: NA-00)01-O			
F.	Is a TN	RCC Cor	e Data Form #10	0400 Atta	ched? (C	Pptional d	at this tim	e)	X	Yes 🖸 No
II. Al	DITIO	NAL REG	GISTRANT IN	FORMA	TION (#	his Sectic	on not nee	ded if Co	ore Data Form attache	d)
A.	Registr	ant Offici	al Contact Name	e & Title:	Garth Ta	ayler			·	
	Mailing	g Address	: 2821 West 7 th S	Street						
	City:	Ft Wort	h	State:	TX			Zip Co	de: 76107	
	Telepho	one: 817-3	332-4101			Fax:	817-39	0-2483	E-1	mail:
В.	Princip	le Compa	ny Product or B	usiness:	Brick N	Afg.		Plant S	tandard Industrial Clas	ssification Code: 3251
III.	FACIL	JTY LO	CATION INFO	RMATI	ON (this	Section	not neede	d if Core	Data Form attached)	
A.	Busines	ss Name o	of Plant or Site: A	Acme Bri	ck - Garr	ison Plar	nt			
B.	Street A	ddress or	Physical Descri	iption of S	Site:	257 Bri	ckyard Ro	1		
	City:	Garriso	n			State:	TX		Zip Code: 7	5946
C.	Latitude	& Longi	tude: 31°50'21''	N94°30'3	2''W					
IV.	FACIL	ITY AN	D SOURCE IN	FORMA	TION				RECEI	V=D
A.	Name o	f Facility	: Garrison Plant							
B.	Type of	Facility:		X Perm	anent	D Port	able		JAN 08	2002

TNRCC - ****** (Rev. 9/5/01)

P1-7 Form and Instructions - This form is for use by facilities subject to Air New Source Review preconstruction permit by rule requirements and is subject to revision. For further information or clarification of an application item, please refer to the Specific Instructions.

Vir & Waste Applications Team

FORM PI-7, REGISTRATION FOR PERMIT BY RULE

		_	
C.	Operating Schedule: 24 Hours/Day 7 Days/Week 52 Weeks/Year		
	Seasonal Operation? Q Yes X No		
	If section IV C is "Yes", please describe:		
D.	Start of Construction Date: January 2002 Start of Operation Date:	February	2002
E	Permit by Rule (PBR) Claimed at this time: 106.183		
F.	Previous Exemption or PBR Registration Number(s):		
G.	Does this action result in the permitting of any grandfathered facilities?	🗆 Yes	X No
H.	Is this facility, group of facilities, or account subject to 30 TAC Chapter 101, Subchapter H, Division 3 (relating to Mass Emissions Cap and Trade)?	🗅 Yes	X No
	If "Yes", does this action require the site to obtain additional emissions allowances?	□ Yes	D No
I. 1	Is this facility located at a major source as defined in 30 TAC Chapter 122?	X Yes	D No
	Is a Site Operating Permit or General Operating Permit (SOP or GOP) review pending for this source or area?	X Yes	🗆 No
	Is a SOP or GOP issued for this source or area?	🗆 Yes	X No
	If you answered "Yes" to any in Section IV- I, list SOP or GOP number(s): O-01179 (Title V);	41418 (N	SR)
V. IM	PORTANT GENERAL INFORMATION		
A.	Is confidential information submitted with this registration?	🗅 Yes	X No
	If section V- A is "Yes", is each "confidential" page marked "confidential" in big red letters?	🗆 Yes	🗆 No
B.	Is this application in response to a notice of violation (NOV) at this location?	🛛 Yes	X No
	If section V-B is "Yes", enter the date of the NOV:		
C.	Please estimate the net number of new jobs which will be created as a result of this registration:	0	
D.	Does the company (subsidiaries and parent companies) employ 100 or fewer persons?	🛛 Yes	X No
VI. TF	ECHNICAL INFORMATION (do not complete this section if claiming §106.436)		
A.	A current area map is attached:	X Yes	D No
B .	A plot plan of the plant property is attached:	X Yes	🗅 No
C.	Emissions data and calculations for this claim are attached	X Yes	🗆 No
D.	A process flow diagram and process description are attached:	X Yes	🗆 No
E.	A completed 30 TAC §106.4 checklist is attached (optional)	🗆 Yes	X No
F.	A completed checklist for the applicable PBR is attached (optional)	X Yes	🗆 No

RECEIVED

JAN 0 8 2002

Air & Waste Applications Team

TNRCC - ****** (Rev. 9/5/01)

PI-7 Form and Instructions - This form is for use by facilities subject to Air New Source Review preconstruction permit by rule requirements and is subject to revision. For further information or clarification of an application item, please refer to the Specific Instructions.

FORM PI-7, REGISTRATION FOR PERMIT BY RULE

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III. INFORMATION FOR SOTAC \$ 106.356 ONL? Will the facility comply with all applicable requirements of permit by rule, Title 30 Texas Administration Code § 106.436? X. STATE AND FEDERAL REGULATORY REQUIREMENTS (a nat complete this section if claiming § 106.436) Registrations must be in compliance with all applicable standards to meet the requirements for authorization under 30 TAC Chapter 105 A. Does a 40 CER Part 60, New Source Performance Standard (NSPS) apply to a facility Pres X No III. Yes, attach compliance demonstration information and list which Subpart(s) are applicable: . . B. Does a 40 CER Part 61, National Emissions Standard for Hazardous Air Pollutants (NESHAP) Pres X No or Title 40 CER Part 63, National Emissions Standard for Hazardous Air Pollutants (NESHAP) Pres X No or Title 40 CER Part 63, National Emissions frandard for Hazardous Air Pollutants (NESHAP) Pres X No Prevention of Significant Decrimation information and list which Subpart(s) are applicable: . . C. Is this facility a new major source, major modification, or major reconstruction according to Prevention of Significant Decrimation (FSD), nonattainment, or Federal Clean Air Act Hazardous Air Pollutants (IAP), permit requirements? If So, a permit by rule cannot be used. . COPIES OF THIS REGISTRATION X Yes No . A Core Data Form and an extra copy of the PI-7 Form (without attachments) was sent, along with	III. INFORMATION FOR 30			
Title 30 Tesas Administration Code § 106.436? X. STATE AND FEDERAL REGULATORY REQUIREMENTS (do not complete this section if claiming § 106.436) Registrations must be in compliance with all applicable standards to meet the requirements for authorization under 30 TAC Chapter 106 A. Does a 40 CFR Part 60, New Source Performance Standard (NSPS) apply to a facility press X No in this registration? If Yes, attach compliance demonstration information and list which Subpart(s) are applicable: B. Does 40 CFR Part 61, National Emissions Standard for Hazardous Air Pollutants (NESHAP) Yes X No or Title 40 CFR Part 63, Maximum Achievable Control Technology (MACT) standard apply to a facility in this registration? If Yes, attach compliance demonstration information and list which Subpart(s) are applicable: C C. Is this facility a new major source, major modification, or major reconstruction according to Prevention of Significant Deterioration (PSD), nonattainment, or Federal Clean Air Act Hazardous Air Pollutants (CHAP) permit requirements? If so, a permit by rule cannot be used. COPIES OF THIS REGISTRATION A. A Core Data Form and an extra copy of the PL7 Form (without attachments) was sent, along with the original registration to the TNRCC Regional Office X Yes No C. A copy of the registration was sent to the appropriate TNRCC Regional Office X Yes No I. SIGNATURE FOR REGISTRATION: I. CARCTA UNUAW AS QUITH /AYLEX at that I have knowledge of the facts herein set forth and that the same are true and correct to the best of my knowledge and belef, the project will satisf		0 TAC § 106.436 <u>ONLY</u>		
Registrations must be in compliance with all applicable standards to meet the requirements for authorization under 30 TAC Chapter 106 A. Does a 40 CFR Part 60, New Source Performance Standard (NSPS) apply to a facility in this registration? If Yes, attach compliance demonstration information and list which Subpart(s) are applicable: B. Does 40 CFR Part 61, National Emissions Standard for Hazardous Air Pollutants (NESHAP) Yes X No or Tile 40 CFR Part 63, Maximum Achievable Control Technology (MACT) standard apply to a facility in this registration? If Yes, attach compliance demonstration information and list which Subpart(s) are applicable: If Set S X No C. Is this facility a new major source, major modification, or major reconstruction according to Prevention of Significant Detecionation (PSD), nonattainment, or Federal Clean Air Act Hazardous Air Pollutants (HAP), permit requirements? If so, a permit by rule cannot be used. Yes X No COPIES OF THIS REGISTRATION A. Core Data Form and an extra copy of the P1-7 Form (without attachments) was sent, along with the original registration to the TNRCC in Austin: X Yes No B. A copy of the registration was sent to the appropriate TNRCC Regional Office X Yes No List Local Program(s) N/A ISIGNATURE FOR REGISTRATION: I Yes No I. CACTP VIEWAW ASQUUTH TA/LEW O3/01/02. I I. SIGNATURE FOR REGISTRATION:	• • •		🗅 Yes	🗅 No
Chapter 106 A. Does a 40 CFR Part 60, New Source Performance Standard (NSPS) apply to a facility his registration? Yes X No If Yes, attach compliance demonstration information and list which Subpart(s) are applicable: . B. Does 40 CFR Part 61, National Emissions Standard for Hazardous Air Pollutants (NESHAP) or Title 40 CFR Part 63, Maximum Achievable Control Technology (MACT) standard apply to a facility in this registration? Yes X No TY Ses, attach compliance demonstration information and list which Subpart(s) are applicable: . . C. Is this facility a new major source, major modification, or major reconstruction according to Psevenion of Significant Deterionation (PSD), nonattainment, or Federal Clean Air Act Hazardous Air Pollutants (HAP), permit requirements? If so, a permit by rule cannot be used. . COPIES OF THIS REGISTRATION				
in this registration? If Yes, attach compliance demonstration information and list which Subpart(s) are applicable: B. Does 40 CFR Part 61, National Emissions Standard for Hazardous Air Pollutants (NESHAP) □ Yes X No or Tild 40 CFR Part 63, Maximum Achievable Control Technology (MACT) standard apply to a facility in this registration? If Yes, attach compliance demonstration information and list which Subpart(s) are applicable: C. C. Is this facility a new major source, major modification, or major reconstruction according to Prevention of Significant Deterioration (PSD), nonattainment, or Federal Clean Air Act Hazardous Air Pollutants (HAP), pormit requirements? If so, a permit by trile cannot be used. COPIES OF THIS REGISTRATION A Core Data Form and an extra copy of the PI-7 Form (without attachments) was sent, along with the original registration to the TNRCC in Austin: X Yes □ No B. A copy of the registration was sent to the appropriate INRCC Regional Office X Yes □ No List Local Program(s) N/A ISIGNATURE FOR REGISTRATION : I I. CARTH WARTH TA/LERK It federal U.S. Environmental Protector Agency regulations of the rease Natural Resource Conservation Commission to the facts herein set forth and that the same are true and correct to the best of my knowledge and belief, the project will satisfy the conditions and limitations of the indicate comption. The facility will operate in compliance with all regulations of the Texas Natural Resource Conservation Commission to the facts herein se		mpliance with all applicable standards to meet the requirements for authoriz	zation u	nder 30 TAC
B. Does 40 CFR Part 61, National Emissions Standard for Hazardous Air Pollutants (NESHAP) □ Yes X No or Title 40 CFR Part 63, Maximum Achievable Control Technology (MACT) standard apply to a facility in this registration? If Yes, attach compliance demonstration information and list which Subpart(s) are applicable: □ Yes X No C. Is this facility a new major source, major modification, or major reconstruction according to Prevention of Significant Deterioration (PSD), nonattainment, or Federal Clean Air Act Hazardous Air Pollutants (HAP), permit requirements? If so, a permit by rule cannot be used. COPIES OF THIS REGISTRATION A A Core Data Form and an extra copy of the PI-7 Form (without attachments) was sent, along with the original registration to the TNRCC in Austin: X Yes □ No B. A copy of the registration was sent to the appropriate TNRCC Regional Office X Yes □ No List Local Program(s) N/A I SIGNATURE FOR REGISTRATION: I. CARATY (JULIAN) ASQUITH TAYLEX It have knowledge of the facts herein set forth and that the same are true and correct to the best of my knowledge and belief, the project will satisfy the conditions and limitations of the indicator server youllations governing air pollution. SIGNATURE UNIAN MAXATY 0 3/01/0 2. II I. SIGNATURE FOR CHARTON II SIGNATURE FOR CHARTON II II SIGNATURE UNIAN MAXATY), New Source Performance Standard (NSPS) apply to a facility	🗅 Yes	X No
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TNRCC Core I	Data Fo		IRCC Use Only
SECTION I: General Information			
1. Reason for Submission Example: new wastewater permit; I	HW registration; o	change in customer in	formation; etc.
PBR 106.183 Install single burner for holding room			
2. Attachments Describe Any Attachments: (ex: T) Yes X	••		oplication, etc.)
Permit By Rule 106.183 applic			
3. Customer Reference Number- <i>if issued</i>	4. Regulated RN	Entity Reference Nu	
CN (9 digits)			(9 digits)
SECTION II: Customer Information			
5. Customer Role (Proposed or Actual) - As It Relates to the Re	egulated Entity Lis	ted on This Form	
Please check <u>one</u> of the following:OwnerOpera	ator XOV	ner and Operator	
Occupational Licensee Volunteer Cleanup Applicant	Other	·······	
TNRCC Use Only Superfund 6. General Customer Information	I PST L	Respondent	
New Customer Change to Customer Information *If "No Change" and Section I is complete, skip t		lated Entity Ownershi gulated Entity Informa	
7. Type of Customer: Individual Sole Proprietors	ship - D.B.A.]County Governn	Partnership	Corporation Government
Other Government	Other		
8. Customer Name (If an individual, please print last name first)			
9. Mailing Address:			
City	State	ZIP	ZIP + 4
	Cluto		
	I		
10. Country Mailing Information <i>if outside USA</i>	. E-Mail Address	it applicable	
	I		
12. Telephone Number 13. Extension	or Code 14. Fa	ax Number if applic	able
15. Federal Tax ID (9 digits) 16. State Franchise Tax ID Numbe	if applicable) 17. DUNS Number <i>i</i>	f applicable (9 digits)
	n nappiloable		. applicable (30glis)
18. Number of Employees	10 1	ndependently Owned	and Operated?
0-20 21-100 101-250 251-500 501 and		Yes	No
	<u> </u>		

SECTION III: Regulated Entity Information

20. General Regulated Entity	
New Regulated Entity	X Change to Regulated Entity Information No Change*
*If "No Cha	nge" and Section I is complete, skip to Section IV - Preparer Information.
21. Regulated Entity Name	e (If an individual, please print last name first)
Acme Brick Company - Ga	rrison Plant
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Air & Waste Applications Trage 1 of 2

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SECTION IV: Preparer Information

39. Name		40. Title
Mike C	Environmental Manager	
41. Telephone Number (817) 332-4101	42. Extension or Code	43. Fax Number <i>if applicable</i> (817) 390 г 2483 ⊑ L \/ E D
44. E-Mail Address: moconnor@a	cmebuildingbrands.com	

JAN 0 8 2002

Air & Waste Applications Team

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January 3, 2002

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TNRCC

Fed Ex # 8292 2089 4828

Air Permits Division - Review Section (MC-161) 12100 Park 35 Circle Building F, First Floor, Rm 1206 Austin, TX 78753

ACME

Building Brands

Re: Acme Brick – Garrison Plant Acct # NA-0001-O Holding Room Burner Installation Permit By rule Filing 106.183 (PBR)

To Whom It May Concern:

Enclosed is the above referenced PBR. If you have any questions, please call me at 817-332-4101.

Sincerely,

ан. 1. с

mil Olam

Mike O'Connor

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Cc: John Decker Ronnie Jack Keith Greg Sublett Garth Tayler

> TNRCC Region 10 (Fed Ex # 8292 2089 4839) Air Permits 3870 Eastex Freeway Beaumont, TX77703-1892

> > RECEIVED I **JAN 0 8 2002** Air & Waste Applications Team

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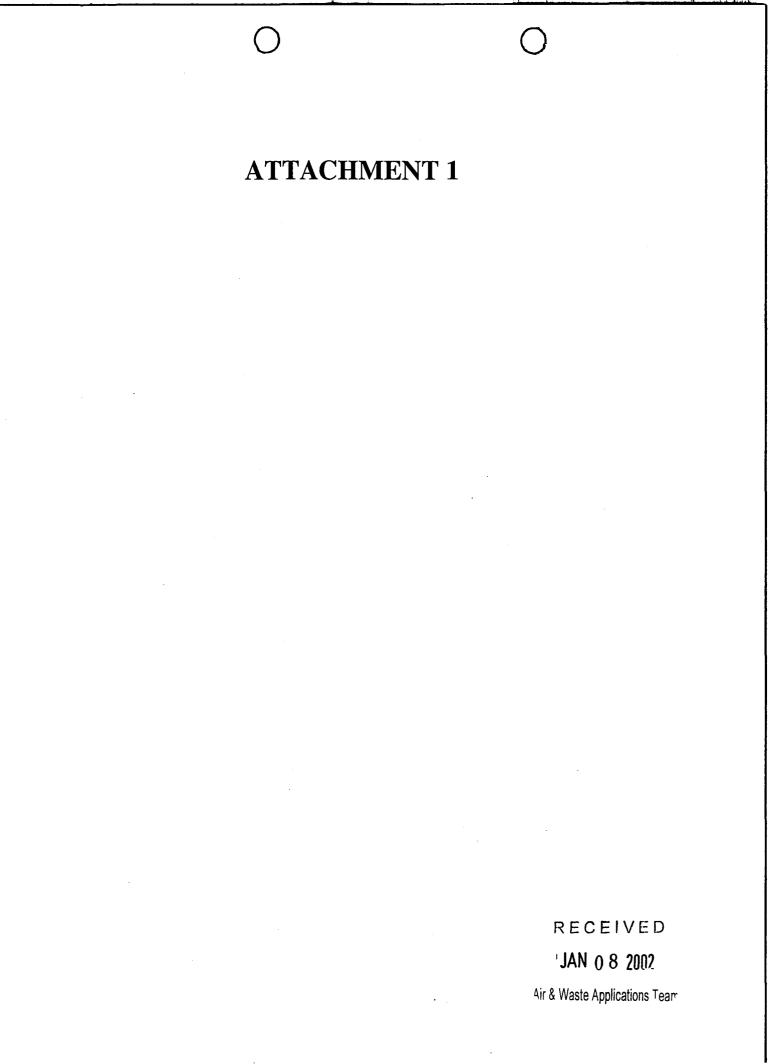
Status

Attachment	1	TNRCC Core Data Form
Attachment	2	TAC 106.183 Checklist
Attachment	3	Project Description
Attachment	4	PBR PI-7
Attachment	5	Process Description
Attachment	6	Emission Calculations
Attachment	7	Table 4 - Combustion Units
Attachment	8	Certificate of Account Status
Attachment	9	TAC 106.183 PBR
Attachment	10	AP-42 Factors
Attachment	11	Hauck Burner Data
Attachment	12	Area Map
Attachment	13	Process Flow Diagram

Attachment 14

Site Map

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ATTACHMENT 2

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Exemption §106.183 Checklist (Previously Standard Exemption 7)

Drying, Curing Ovens, and Furnaces

The following checklist has been developed so the Texas Natural Resource Conservation Commission (TNRCC) can confirm that you meet exemption requirements. The questions are derived from §106.4 and the exemption list. Please read all questions and check YES or NO (equivalent to True or False), or give specific information as applicable to your facility. If you do not meet all conditions of a specific exemption, you will not be allowed to operate the facility under exemption and you must apply for a construction permit as required under §116.110(a).

<u>Part</u>	<u>YES</u>	<u>NO</u>	Description	
7	_X		The facility is not a stationary I	
(a)	_X		The only emissions from this ur	
(1)	_X			" or a Table 4 "Combustion Units" is attached
(b)	_X		The unit is gas fired and has ma	ximum heat input of 40 million BTU per hour or less SMMBA/lar
(1) (2)	_X _n/a		The fuel for this unit will be swe The fuel for this unit will be liqu	
(2) (3)	_n/a			I gas containing no more than 0.1 grain of total sulfur compounds,
	_11/ a		calculated as sulfur, per dry star	
(4)	n/a		The fuel for this unit will be a c	
(5)	_n/a_			l oil and limited to 720 hours or less
• •	_n/a		The oil used for this unit contain	
	_n/a		The oil used for this unit is a p	etroleum distillate oil that is not a blend containing waste oils or
			solvents	
(c)	_n/a			heat input greater than 10 million Btu/hr and is designed such that
(1)	_n/a		NOx emissions shall not exceed	
(d)	_n/a		Record of nours of fuel oil firing	g and fuel oil purchases will be kept.
	_n/a			S Subpart Dc (see attached)
NAME	: Mike ()'Conr	lor	
	ANY NA			ironmental Manager
FACILI	TY NA	ME:	Garrison Plant	
PHONE	E # (8 17	7)332-4	4101 ACCOUNT ID #	#: NA-0001-O
FAX #:	•)390-2-		
LOCAT	FION: G	arrison	, TX, Nacogdoches County	×
			Applie	03/01/02. Date
	SIGNA	TURE	OF COMPANY OFFICER	Date
			HTV	RECEIVED
revised 3/9	97		V ·	
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Garrison Plant Holding Room Burner Project Description

Acme Brick will be installing a 5,000,000 btu/hr supplemental heat burner (FIN 47) in the facility holding room. This burner will heat the ambient air to a maximum temperature of 130 °F. There are two vent sacks associated with the holding room (EPN's 17B and 17C).

The only pollutants are products of combustion from sweet natural gas (Refer to Emission Calculations and Table 4 – Combustion Units).

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ATTACHMENT 5

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Garrison Plant Process Description

Highlighted parts are the only change from the original 2001 permitted facility (permit 41418).

The Acme built primary crusher (EPN 18) is located in the clay pit and is the first point of crushing. The primary crusher feeds a conveyor that leads to clay storage area #1. The conveyor has three-drop points (EPN's 19-21) and two stockpile drop points (22-23).

The proposed new grinding building consists of a Handle Disintegrator (Primary Grinder) Model WSL 480C, a Handle Fine Roller Mill (smooth roll) Model WF 1080C, a Handle Double Shaft Screen Mixer Model MDG 1015A, and a series of six Handle Box Feeders (five of six are clay processing, the sixth is storage). A baghouse (EPN 99) is integrated into the design of the grinding operation and controls the disentigrator, smooth roll, and double shaft mixer.

The new grinding will have red and buff clay's (EPN's 22-23) stored in clay storage area #1. Clay from this area will be taken by front-end loader and deposited in two of the five processed clay box feeders (Red and Buff Box Feeders - EPN's 38,38a,39,39a) at the grinding room.

Grog and saw-dust will also be deposited by front-end loader in designated box feeders (Grog and Sawdust Box Feeders - EPN's 40,41,41a) in the grinding room. The sixth box feeder (EPN 45) is a storage area after mixing.

Clay is brought to storage area #2 by transport vehicle. A Gleason Shredder Model No.5' portable shredder (EPN 24) processes the Mayfield clay material in clay storage area #2 which has one drop point (EPN 22a). A front-end loader transports the clay from clay storage area #2 to a box feeder (Mayfield Box Feeder – EPN's 37,37a) in the grinding room.

The material is moved from the grinding building to the proposed new manufacturing operations (EPN's 25, 25a-o) which is located in an enclosed building. Movement from grinding to manufacturing is by means of conveyance.

In manufacturing, clay is mixed in the pugmill/extruder. Slurry and dry additives (EPN 46) are added to the extruded column. The clay and additives are extruded into long "slugs," coated with sand and/or oxide slurries and then cut into units. The units are sent to the tumbler conveyance then to the holding room and dryer.

The holding room temperature is slightly above ambient ranging from 100-130 °F by means of a single supplemental burner. Two vent stacks are associated with the holding room (EPN's 17B) and 17C). The dryer operation (EPN's 13-17, 17a) is heated using a supplemental heat system, with two 4988-6000H burners and five dryer stacks (EPN's 13-17). A proposed new dryer will have 3 tracks and will be heated by the same supplemental burners. A new dryer emission point will be created (EPN 17a).

There are six existing periodic kilns (EPN's 1-6) each with twenty burners. Each kiln has 在 D

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lighting and cool down vent (EPN's 7-12).

A new periodic Kiln #7 (EPN 7a) is proposed. The kiln will be equipped with a lighting and cool down vent (EPN 12a). The new kiln will be equipped with 6 low Nox and CO burners opposed to 20 burners.

Since the kilns are periodic or batch, the brick remains in the kilns for a specific time cycle. The bricks become vitrified and are removed from the kilns and transported to the packaging station (EPN 26), banded and stacked outside the building.

There is a Gauandler Type "A," 10" x 16" jaw (grog) crusher (EPN 31)) at the end of the packaging process which feeds a hopper (EPN 32). The hopper conveys to a grog box feeder (Grog Box feeder #1 - EPN 33) that feeds the grog hammer mill (EPN 34) then screens (EPN 35). The ground material is then stockpiled (EPN 36) and transported by front-end loader to the grinding operations (EPN's 40-46).

There are four storage tanks: one - 1,000 gallon gasoline fuel tank (EPN 27), one - 6,000 gallon red diesel tank (EPN 28), one - 4,000 gallon green diesel tank (EPN 29), and one 6,600 gallon additive A tank (EPN 30).

EPN's 7-12, 12a are kiln vents and only used during burner lighting and cool down.

EPN's 42, 43, and 44 are reserved.

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I JAN 0 8 2002 Air & Waste Applications Tear Garrison Holding Room Burner Emission Calculations

Source	Pollutant	lbs/hr	ТРҮ
FIN 47	NOx	0.490	2.147
	VOC	0.027	0.118
	CO	0.412	1.804
	SO2	0.003	0.013
	PM	0.037	0.163

Note(s):

(1) Natural gas estimated at 1,020 btu/cf

(2) Maximum burner btu input 5,000,000 btu/hr

(3) Estimated maximum fuel consumption = 5,000,000 btu/hr / 1,020 btu/cf = 4,902 cf/hr

(4) AP-42 Natural Gas Combustion factors used (Tables 1.4-1 and 1.4-2)

(5) FIN 47 is the source for EPN's 17B and 17C. Each EPN will receive 50% of the calculated emission rate (refer to process flow)

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ATTACHMENT 7

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TABLE 4

Acme Brick Garrison Plant

COMBUSTION UNITS

OPERATIONAL DATA									
Number from flow diag	ram: FIN 47	, 			Model Nun	nber(if availab	le): PBG 5	5000	
Name of device: Holdin	Name of device: Holding Rom Burner					rer: Hauck			
		СНА	RACTI	ERIST	TICS OF IN	NPUT			
					Chemical C	Composition			
	Ma	terial	Min.	Value lb/h	Expected r	Ave. Value lb/h	-	Design Maximum lb/hr	
Waste Material*	1.	N/A							
waste material*	2.								
	3.								
	4.								
	5.								
Gross Heating Value of Waste Material (Wet basis if applicable	Btu/		Air Supplied Waste Mate		1	Minimum 70°F & 14.7 p 	sia) S	Maximum CFM(70°F & 14.7 psia)	
Waste Material of		Total Flow lb/hr			Rate Inlet			°F	
Contaminated Gas	Min	Minimum Expected			d Design Maximum		n Expected	Design Maximum	
		Chemical Composition							
	Ma	Material			Min. Value Expected		Expected	Design Maximum	
Fuel	1. Sweet N	Vatural Gas				2,451 cf/hr		4,902 cf/hr	
	2.								
	3.								
	4.								
Gross Heating Value of Fuel	Btu/cf <u>1,020</u>	Air Suppl: Fuel		or Minimum ACFM (70°F & 14.7 psia) ACFI			Maximum M(70°F & 14.7 psia) <u>30,000</u>		

*Describe how waste material is introduced into combustion unit on an attached sheet. Supply drawings, dimensioned and to scale to show clearly the design and operation of the PRIE CEIVED

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FORM PI-2 (72-9) TABLE 4 (continued)

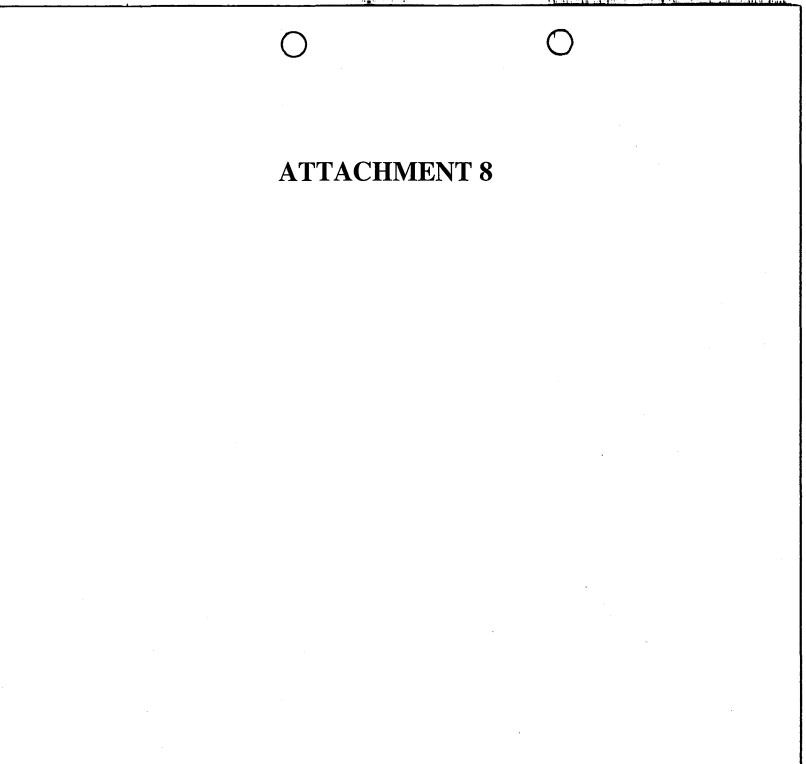
COMBUSTION UNITS

CHARACTERISTICS OF OUTPUT							
	Chemical Composition						
	Material		Min. Value Expected lb/hr		Value Expected lb/hr	Design Maximum lb/hr	
Flue Gas	1. NOx				0.49		
Released	2. VOC				0.027		
	3. CO				0.412		
	4. SO2				0.003		
	5. PM				0.037		
Temperature at Stack Exit			Flow Rate lb/hr		Velocity at ft/s	Stack Exit sec	
°F 130	Minimum Exp	ected	Maximum Expected	Minimum Expected		Maximum Expected 20-30 ft/sec	
	CO	MBUST	TION UNIT CHARACT	ERISTI	CS		
Chamber Volume from Drawing ft ³ REFER TO ATTACHED DIAGRAM			Chamber Velocity at Average Chamber Temperature ft/sec		Average Chamber Temperature °F		
Average Residence Time sec		Exhaust Stack Height ft		Exhaust Stack Diameter ft			
ADDITIONAL INFORMATION FOR CATALYTIC COMBUSTION UNITS							
Number and Type of Catalyst Elements			Catalyst Bed Velocity ft/sec		(Manufactu	ate per Catalytic Unit rer's Specifications) ecify Units	

Attach separate sheets as necessary providing a description of the combustion unit, including details regarding principle of operation and the basis for calculating its efficiency. Supply an assembly drawing, dimensioned and to scale, to show clearly the design and operation of the equipment. If the device has bypasses, safety valves, etc., specify when such bypasses are to be used and under what conditions. Submit explanations on control for temperature, air flow rates, fuel rates, and other operating variables.10/93

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JAN 0 8 2002 Air & Waste Applications Team Letter of Good Standing





TEXAS COMPTROLLER OF PUBLIC ACCOUNTS CAROLE KEETON RYLANDER • COMPTROLLER • AUSTIN, TEXAS 78774

December 20, 2001

CERTIFICATE OF ACCOUNT STATUS

THE STATE OF TEXAS COUNTY OF TRAVIS

I, Carole Keeton Rylander, Comptroller of Public Accounts of the State of Texa DO HEREBY CERTIFY that according to the records of this office

ACME BRICK COMPANY

is, as of this date, in good standing with this office having no franchise tax reports or payments due at this time. This certificate is valid through the date that the next franchise tax report will be due May 15, 2002.

This certificate is valid for the purpose of conversion when the converted entity is subject to franchise tax as required by law. This certificate is not valid for the purpose of dissolution, merger or withdrawal.

GIVEN UNDER MY HAND AND SEAL OF OFFICE in the City of Austin, this 20th day of December, 2001 A.D.

andedieton t

CAROLE KEETON RYLANDER Comptroller of Public Accounts

Taxpayer number: 17524033366 File number: 0008985106

Form 05-304(Rev.5-99/4)

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http://ecpa.cpa.state.tx.us/coa/servlet/cpa.app.coa.CoaLetter

12/20/2001

s A	dministrative Code	0	wysiwyg://14/http://info.sos.state.tx.uc=&pg=1	&p_tac=&ti=30&pt=1&ch=106&rl=183
	<< Prev Rule	Texas Ad	ministrative Code	<u>Next Rule>></u>
	TITLE 30	ENVIRONMEN	ITAL QUALITY	
	PART 1	TEXAS NATU COMMISSION	RAL RESOURCE CONSERVA	TION
	CHAPTER 106	PERMITS BY F	RULE	
	SUBCHAPTER G	COMBUSTION	I	
	RULE §106.183	Boilers, Heaters,	and Other Combustion Devices	

Boilers, heaters, drying or curing ovens, furnaces, or other combustion units, but not including stationary internal combustion engines or turbines are permitted by rule, provided that the following conditions are met.

(1) The only emissions shall be products of combustion of the fuel.

(2) The maximum heat input shall be 40 million British thermal unit (Btu) per hour with the fuel being:

(A) sweet natural gas;

: Texa

(B) liquid petroleum gas;

(C) fuel gas containing no more than 0.1 grain of total sulfur compounds, calculated as sulfur, per dry standard cubic foot; or

(D) combinations of the fuels in subparagraphs (A) - (C) of this paragraph.

(3) Distillate fuel oil shall be fired as a backup fuel only. Firing shall be limited to 720 hours per year. The fuel oil shall contain less than 0.3% sulfur by weight and shall not be blended with waste oils or solvents.

(4) All gas fired heaters and boilers with a heat input greater than ten million Btu per hour (higher heating value) shall be designed such that the emissions of nitrogen oxides shall not exceed 0.1 pounds per million Btu heat input.

(5) Records of hours of fuel oil firing and fuel oil purchases shall be maintained on-site on a two-year rolling retention period and made available upon request to the commission or any local air pollution control agency having jurisdiction.

Source Note: The provisions of this §106.183 adopted to be effective June 18, 1997, 22 TexReg 5668; amended to be effective September 4, 2000, 25 TexReg 8653

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ATTACHMENT 10

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Pollutant	Emission Factor (lb/10 ⁶ scf)	Emission Factor Rating
CO ₂ ^b	120,000	А
Lead	0.0005	D
N ₂ O (Uncontrolled)	2.2	E
N ₂ O (Controlled-low-NO _X burner)	0.64	E
PM (Total) ^c	7.6	D
PM (Condensable) ^c	5.7	D
PM (Filterable) ^c	1.9	В
SO ₂ ^d	0.6	A
TOC	11	В
Methane	2.3	В
VOC	5.5	С

TABLE 1.4-2. EMISSION FACTORS FOR CRITERIA POLLUTANTS AND GREENHOUSE GASES FROM NATURAL GAS COMBUSTION^a

^a Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. Data are for all natural gas combustion sources. To convert from $lb/10^6$ scf to $kg/10^6$ m³, multiply by 16. To convert from $lb/10^6$ scf to 1b/MMBtu, divide by 1,020. The emission factors in this table may be converted to other natural gas heating values by multiplying the given emission factor by the ratio of the specified heating value to this average heating value. TOC = Total Organic Compounds. VOC = Volatile Organic Compounds.

^b Based on approximately 100% conversion of fuel carbon to CO₂. CO₂[lb/10⁶ scf] = (3.67) (CON) (C)(D), where CON = fractional conversion of fuel carbon to CO₂, C = carbon content of fuel by weight (0.76), and D = density of fuel, 4.2x10⁴ lb/10⁶ scf.

^c All PM (total, condensible, and filterable) is assumed to be less than 1.0 micrometer in diameter. Therefore, the PM emission factors presented here may be used to estimate PM₁₀, PM_{2.5} or PM₁ emissions. Total PM is the sum of the filterable PM and condensible PM. Condensible PM is the particulate matter collected using EPA Method 202 (or equivalent). Filterable PM is the particulate matter collected on, or prior to, the filter of an EPA Method 5 (or equivalent) sampling train.

^d Based on 100% conversion of fuel sulfur to SO₂. Assumes sulfur content is natural gas of 2,000 grains/10⁶ scf. The SO₂ emission factor in this table can be converted to other natural gas sulfur contents by multiplying the SO₂ emission factor by the ratio of the site-specific sulfur content (grains/10⁶ scf) to 2,000 grains/10⁶ scf.

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EMISSION FACTORS

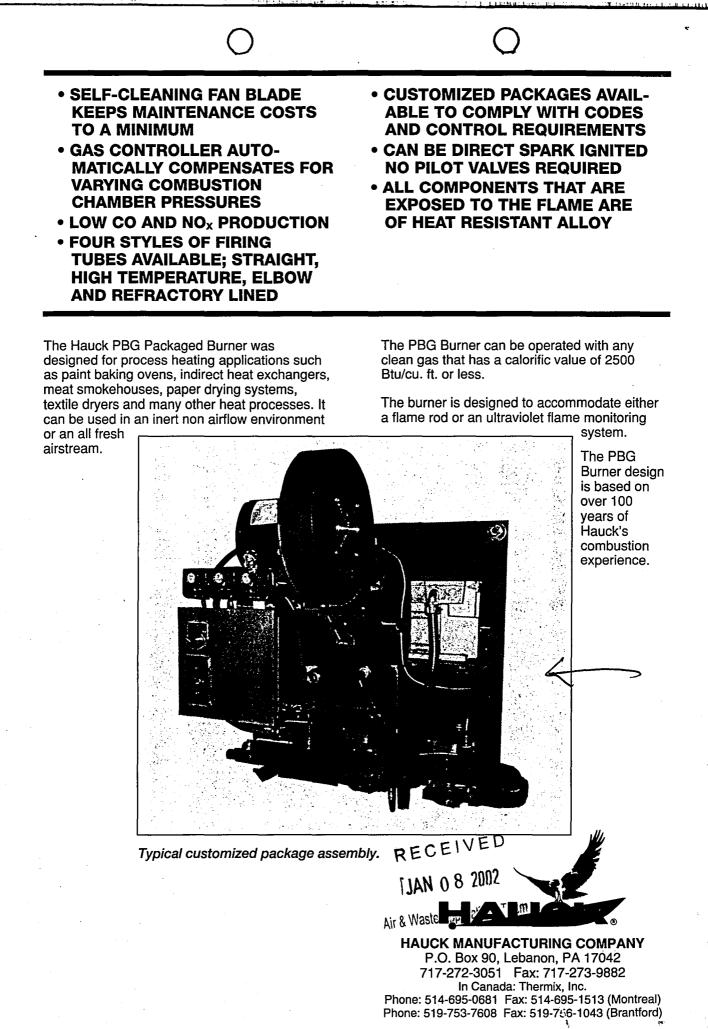
Table 1.4-1. EMISSION FACTORS FOR NITROGEN OXIDES (NO_x) AND CARBON MONOXIDE (CO) FROM NATURAL GAS COMBUSTION^a

	NC), ^b	C	0
Combustor Type (MMBtu/hr Heat Input) [SCC]	Emission Factor (lb/10 ⁶ scf)	Emission Factor Rating	Emission Factor (lb/10 ⁶ scf)	Emission Factor Rating
Large Wall-Fired Boilers (>100) [1-01-006-01, 1-02-006-01, 1-03-006-01]				
Uncontrolled (Pre-NSPS) ^c	280	А	84	В
Uncontrolled (Post-NSPS) ^c	190	Α	84	В
Controlled - Low NO _x burners	140	А	84	В
Controlled - Flue gas recirculation	100	D	84	В
Small Boilers (<100) [1-01-006-02, 1-02-006-02, 1-03-006-02, 1-03-006-03]				
Uncontrolled	100	В	84	В
Controlled - Low NO _x burners	50	D	84	В
Controlled - Low NO _x burners/Flue gas recirculation	32	С	84	В
Tangential-Fired Boilers (All Sizes) [1-01-006-04]				
Uncontrolled	170	А	24	С
Controlled - Flue gas recirculation	76	D	98	D
Γ ¹ Residential Furnaces ()(<0.3) Γ ¹ [No SCC]				
Uncontrolled	94	В	40	В

Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. To convert from lb/10 ⁶ scf to kg/10⁶ m³, multiply by 16.
 Emission factors are based on an average natural gas higher heating value of 1,020 Btu/scf. To convert from 1b/10 ⁶ scf to lb/MMBtu, divide by 1,020. The emission factors in this table may be converted to other natural gas heating values by multiplying the given emission factor by the ratio of the specified heating value to this average heating value. SCC = Source Classification Code. ND = no data. NA = not applicable.
 Expressed as NO₂. For large and small wall fired boilers with SNCR control, apply a 24 percent reduction to the appropriate NO x emission factor.
 NSPS=New Source Performance Standard as defined in 40 CFR 60 Subparts D and Db. Post-NSPS units are boilers with greater than 250 MMBtu/hr of heat input that comparison factors are based on an expression factor of the specified heat input that comparison factor by the ratio of an expression factor.

heat input that commenced construction modification, or reconstruction after August 17, 1971, and units with heat input capacities between 100 and 250 MMBtu/hr that commenced construction modification, or reconstruction after June 19, 1984.

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Printed in U.S.A. 7/95



PBG PACKAGED GAS BURNERS

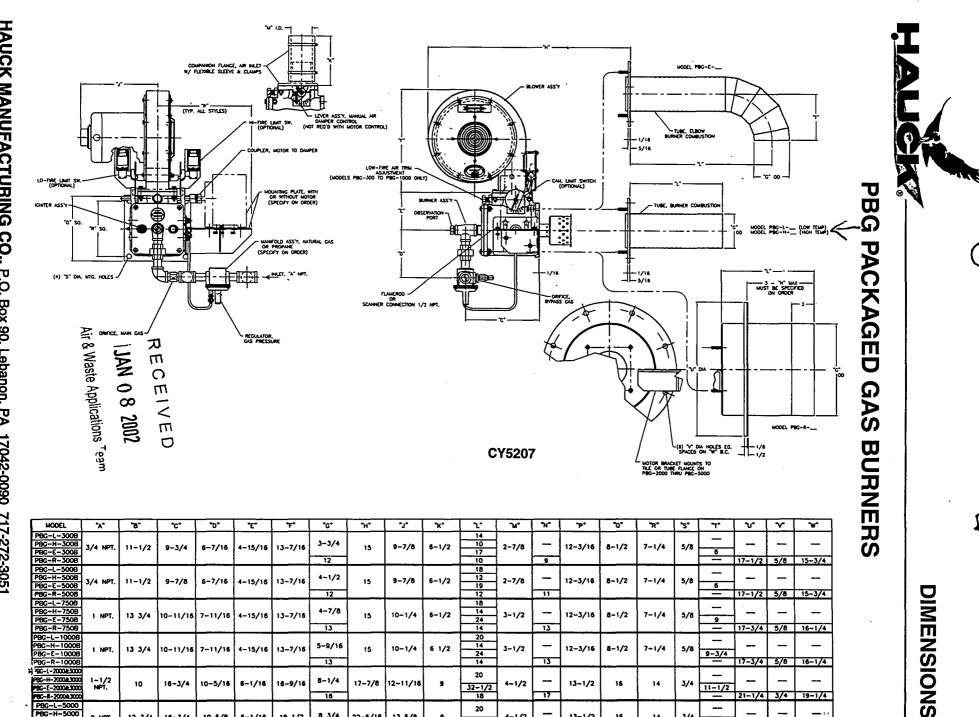
PBG MODEL			PBG 300	PBG 500	PBG 750	PBG 1000	PBG 2000	PBG 3000	PBG 5000
MAXIMUM INPUT 1,2 (MULTIPLY BY 1000 TO OBTAIN BTU/HR) NOLS N	N N N	-0.5" wc	315	525	790	1050	2100	3150	5250
	CHAMBER CHAMBER PRESSURE	0.0" wc	300	500	750	1000	2000	3000	5000
	Ч С С С С С С С С С С С С С С С С С С С	+2.0" wc	230	390	580	775	1550	2320	3850
MINIMUM INPUT ¹ (MULTIPLY BY 1000 TO OBTAIN BTU/HR)		6	10	15	20	40	60	100	
MAXIMUM FLA	ME LENG	ath a	4 "	6"	8"	14"	32"	48"	60"
MOTOR HOR	MOTOR HORSEPOWER		1/3	1/3	3/4	3/4	3/4	3/4	3
FUEL SUPPLY PRESSURE ¹			14	4"-21" wo	at the i	nlet of the	burner g	, jas regula	itor.
BURNER NET W	/EIGHT (lbs) ⁴	81	84	90	91	172	172	210

Notes:

- 1. Based on natural gas HHV of 1000 Btu/Cu. Ft. and 0.6 S.G.
- 2. For blowers utilizing 50Hz frequency, multiply maximum input by 0.83. For altitudes above sea level, consult Hauck for exact heat input reduction.
- 3. Based on PBG-L-XXXX model burners and measured from the end of the low temperature straight alloy firing tube, refractory tile, or elbow tube in a zero air flow condition. The high temperature straight firing tube will be 30% less than above.
- 4. Based on standard burner package with straight alloy firing tube and no accessories.

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23-1/4 3/4 21-1/4

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HAUCK MANUFACTURING CO., P.O. Box 90, Lebanon, PA 17042-0090 717-272-3051 2/98 Fax: 717-273-9882

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PBG-3

P8G-E-10008

PBG-R-10006

3) 79G-L-2000&3000

PBC-H-2000&3000 PBC-E-2000&3000 PBC-R-2000&3000

PBG-L-5000

PBG-H-5000 PBG-E-5000

PBG-R-5000

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2 NPT.

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ATTACHMENT 12

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