Interim New Source Re	eview Pnitting IMS	ø	\bigcirc	Page 1 of 1
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	R PERMITS IMS- PROJEC			·/
PROJECT#: 96796	PERMIT#: B552	STATUS: P	DISP CODE: C	11
RECEIVED: 04/01/2003	PROJTYPE: BDRC	RENEWAL:	ISSUED DATE:	80300
FEE DATE:	FEE AMT: \$ 0	STDX1/SP: 0	SUP-DISP DATE: /0	18/03
GROUP: EBTP		1		
TEAMLDR : CHISM, RIC	HARD Steve Sun			
ISSUED TO: TXU GENEI	ΑΤΙΟΝ COMPANY I P		AIR DERC_1022858 CE_20031008_Certifi	555-96796_ cation D1099
CUSTOMER REGISTRY				
PRIMARY CONTACT I				
CONTACT TYPE: TECH				
NAME: MR DICK ROBEI		TITLE: AIR QUALITY	MANAGER	
PHONE: 214-812-8416 ext		FAX: 214-812-4395 ext		
STREET: 1601 BRYAN S	TREET	CITY/STATE,ZIP: DAI		
				#0004000+
PROJECT INFORMATI	ON			
UNIT: DERC GENERATI	ON FROM 1/1/02-12/31/02	@ VALLEY ELECTRIC	STATION	
SIC: 4911 REGION: 4	ACCOUNT: FB0025U	REG ENTITY RN102285855	ID:	
SITE NAME: VALLEY ST	FEAM ELECTRIC STATIO			
STATION				
COUNTY: FANNIN	CAPUNITS:	UNITTYPE:		
CAPACITY:	CITY: SAVOY			
LOCATION: 0				
PUBLIC NOTICE REQUI				
PUBLIC NOTICE REQUI	RED .: PNI ALI LANC	GUAGE: NO PN2 ALT	LANGUAGE: NO	
1910/00/07/2014-01/00/05/10/07/07/07/07/07/07/07/07/07/07/07/07/07				25577000
EMISSION RATES				
TONS/YR REDUCTION	NOX CO VOC PM SO	2 OTHER TOTAL		
PROJECT NOTES				
TECHNICAL ACTIVITY	HISTORY			******
FA - PROJECT ISSUED :	TR - PROJEC	Т		
	RECEIVED :			
PROJECT ATTRIBUTES	5			Roberto
PROJECT LINK				20000
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Robert J. Huston, *Chairman* R. B. "Ralph" Marquez, *Commissioner* Kathleen Hartnett White. *Commissioner* Margaret Hoffman, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution October 8 2003

Mr. Dick Robertson Air Quality Manager TXU Generation Company, L.P. 1601 Bryan Street Dallas, Texas 75201-3411

Re: Review of Discrete Emission Reduction Credits (DERCs) Generation Valley Steam Electric Station Savoy, Fanin County Regulated Entity Number: RN102285855

Dear Mr. Robertson:

This letter is in response to your Form DEC-1, entitled "Notice of Generation and Generator Certification of Discrete Emission Credits," dated March 28, 2003. We have determined that the information contained in your registration is complete. This review verifies that all information needed for credit review has been received and verified.

Enclosed is the DERC Certificate numbered D-1099, issued to TXU Generation Company, L.P., in the amount of 39.0 tons of nitrogen oxide discrete emission credits. This certificate has been deposited in the Texas Commission on Environmental Quality (TCEQ) Discrete Emissions Credit Registry. This certificate may be transferred or sold to another owner per the requirements of Title 30 Texas Administrative Code §§ 101.370 through 101.379. However, the certificate must be submitted to the TCEQ Discrete Emissions Credit Registry when ownership of the credits changes.

Please reference the regulated entity number noted in this letter for all of your future Banking and Trading correspondence.

Thank you for your cooperation in this matter. If you have questions concerning this review or need further assistance regarding the banking program, please contact Mr. Steve Sun at (512) 239-3554 or write to the Texas Commission on Environmental Quality, Office of Permitting, Remediation, and Registration, Air Permits Division (MC-163), P.O. Box 13087, Austin, Texas 78711-3087.

Sincerely,

p

Dale L. Beebe Farrow, P.E., Director Air Permits Division Office of Permitting, Remediation & Registration

DBF/SSS/pll

Enclosure

۰.

cc: Mr. Tony L. Walker, Air Section Manager, Region 4 - Fort Worth Mr. Cedric Robinson, TXU Energy, Dallas

Project Number: 96796

The State of Texas

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Certificate Number

D-1099



Number of Credits

39.0 TONS NOx

Discrete Emission Reduction Credit Certificate

This certifies that: TXU Generation Company 1601 Bryan Street Dallas, Texas 75201-3411

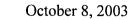
is the owner of 39.0 tons of nitrogen oxide (NOx) discrete emission credits established under the laws of the State of Texas, transferable only on the books of the Texas Commission on Environmental Quality, by the holder hereof in person or by duly authorized Attorney, upon surrender of this certificate.

The owner of this certificate is entitled to utilize the discrete emission credits evidenced herein for all purpose authorized by the laws and regulation of the State of Texas and is subject to all limitations prescribed by the laws and regulations of the State of Texas.

Discrete Emission Reduction Generation Period: January 1, 2002 - December 31, 2002

Generator Regulated Entity No.: RN102285855 County of Generation: Fannin

Generator Certificate: NA



margaret Hoffman

Executive Director Texas Commission on Environmental Quality

Date

DISCRETE EMISSION REDUCTION CREDITS (DERCs) VERIFICATION TECHNICAL REVIEW

Permit No:B552Project Type:BDRCRecord No:96796Account No:FB-0025-UReviewer:Mr. Steve Sun

Company: Facility Name: City: County: TXU Generation Company LP Valley Electric Station Savoy Fannin

Project Overview

TXU Generation company L.P., submitted a DEC-1 on March 27, 2003. The company is seeking to generate DERCs for NOx emission by implementing controls on a utility boiler FIN VA-B1 at their Valley Electric Station. A total of 37.9 tons of NOx DERCs are being claimed on the application.

Discrete Emission Reductions Summary

TXU is claiming NOx DERCs from a 199 MW gas utility boiler. The company implemented combustion optimization techniques prior to 2001 in order to reduce NOx emissions. The strategy period is from 1/1/02 to 12/31/02. The boiler is a grandfathered facility that received a SB7 Permit in 2001.

The baseline emission period is 1999 and 2000. The site falls under the East and Central Regional State Implementation Plan (SIP) and the EI year used in the SIP demonstration was 1997 for utilities. The baseline emissions cannot exceed the emissions reported in emission inventory used for the SIP demonstration. The baseline emissions the company claimed for FIN VA-B1 exceeded the SIP EI so the baseline emissions for that unit will be limited to the 1997 emission level. The company submitted heat input and CEMS data to support the baseline and strategy emissions. The level of activity and emission rate were verified with EPA's Acid Rain score card.

The total amount of NOx DERCs that are creditable will be 39.0 tons. This is different from the amount the company claimed in the application. The difference is due to the calculation and rounding.

Applicable Pollutants	NOx
If VOC identify HAPs and Non HAPs	
Most recent year of emissions inventory used for SIP determination:	
Generation Period:	
Source:	Mobile □ Stationary ✓
Generation Area A	Attainment 🖌 Non Attainment 🗆
If in Dallas/Fort Worth Nonattainment area, identify ozone and	non-ozone season.
Baseline Period	1999-2000 for VA-B1
Baseline Emission Factor	
Do Baseline emission factor exceed any applicable Federal, Stat	te, or authorized limit?
	Yes 🗆 No 🖌

Generation of Discrete Emission Credits:

Generation Method: The company implemented the following control techniques/technology:

FIN VA-B1

Low-NOx Burner Modification: Redesigning and installing new burner components on the existing

burners which enhance low NOx combustion through fuel and air staging at the burner. By lowering the peak flame temperature, thermal NOx creation is reduced.

Over fire air system: An air-biasing technique which diverts a portion of the existing combustion air flow (up to 35%) away from the burners and up to air injection ports located above the top row of burners. The resulting air staging lowers thermal and fuel NOx by delaying the fuel and air mixing on a bulk furnace basis and reduces the peak flame temperature.

Discrete Emission Reduction Calculation Methods

See attached table for detailed calculations. The DERCs can be calculated using the following example

FIN VA-B1

- = 4537681 MMBtu x 0.255 lb/MMBtu (4537681 MMBtu x 0.238 lb/MMBtu) ÷ 2000 lbs
- 39.02 tons =
- 39.0 tons =

Control Requirements:

NOx

FIN '	VA-B1	
	NSPS	Exempt from NSPS D series
	30 TAC Chapter 117	
	-	117.135(1)(B)(i) after 5/1/2003

Conclusion:

TXU Generation Company LP has demonstrated and supported reductions of NOx for the period of January 1, 2002 to December 31, 2002. Certified NOx DERCs in the amounts of 39.0 will be deposited in the TCEQ Discrete Emissions Credits Registry.

Project Reviewer

16/6/03 Date

Rechard Com Team Leader/Section/Manager/Backup

Account: FB-0025-U Company: TXU Generation Company - Valley House Station

If SA > BA then (BER*BA)-(SER*SA) If SA < BA then (BER*BA)-(SER*BA)

Pollutant NOx

- 141 M	de la seconda	4			Baseline Y	ears 🖤		Permit Li	Permit Limit			
Facility 🔨 🖉	FIN	A STORAGE ST	Shutdown (Y/N)	Baseline Year	Activity	BER ¹	RER ²	Activity	ER	Permit Allowables	Emissions	BE ⁴
	VA-B1	VA-B1SA	N	1999	4397127	0.310					681.55	681.55
		VA-B1SB		2000	5631686	0.325					915.15	915.15

1 BER - baseline emission rate

2 RER - most stringent emission rate (regulatory, permit, ..)

3 Actual emissions - (BA) x (lower of BER or RER)

4 BE - The lowest of Actual Emission or permit

5 BEavg - The average of the lowest emissions (actual emission or permit) of the two baseline years

6 BE - The lower of BEavg or SIP EI

BEavg ⁵	- ·		SIP EI	(1997)		BE ⁶			Strategic A			
Activity	ER	Tons	Tons	Activity	ER	Activity	ER	Tons	Activity	SER	BA ~ SA	DERCS (tons)
5014406.5	0.3175	798.35	579.00	4537681	0.255	4537681	0.255	579.00	2147845	0.238	39.02	39.00
					I	L	i	1	I	1	1	20.00

39.00

Steve Sun - March 2003 TXU East System DERC Submittal

From:	<crobins4@txu.com></crobins4@txu.com>	-
To:	<ssun@tceq.state.tx.us></ssun@tceq.state.tx.us>	
Date:	9/15/2003 3:39 PM	
Subject:	March 2003 TXU East System DERC Submittal	
CC:	<pre><dick_robertson@txu.com>, <clark.reed@txu.co< pre=""></clark.reed@txu.co<></dick_robertson@txu.com></pre>	m>

Steve,

Per your request, additional information is being provided regarding the installation of NOx control techniques supporting TXU's March 2003 East System DERC submittal. It is important to note that TXU continually tunes and optimizes NOx reduction equipment to maintain boiler performance. A single malfunctioning burner can significantly increase the overall boiler NOx emissions. In addition, activities are performed to improve or enhance NOx reduction. These aetivities include boiler tuning, burners-out-of-service firing, reduced excess air usage, fuel biasing, control system optimization, fuel & air balancing and operational enhancements. Therefore, in addition to control equipment, continual system optimization is performed.

Listed below are your questions and the corresponding TXU response. If you require clarification, please contact me via e-mail or by phone at 214.812.3324.

Thanks for your assistance!

Stryker Creek Unit 1

TCEQ Question: When were the low NOx burners installed? The generation period will be from the time the low NOx burners were implemented to December 2002

TXU Response: The low NOx burner modifications were installed in January of 2003. Prior to this installation, the air register controls were automated in November of 2001. The boiler burner system was later tuned and optimized when the unit became available. Therefore, the generation period should be January 2002 through December 2002.

Valley Unit 1

TCEQ Statement: Since the OFA system was placed into service in February 2002 the generation period will have to be adjusted to February - December 2002.

TXU Response: The Low NOx Burner modifications and OFA were installed in May, 2001. The LNB system was placed in service at that time, however, the OFA system was not placed in service and tuned until February, 2002. Therefore, the generation period should be January 2002 through December 2002.

Tradinghouse Unit 1.

TCEQ Statement: Since the IFGR was not implemented until May 2002. We will have to adjust the generation period to May - December 2002.

TXU Response: The IFGR, LNB and OFA systems were installed in May, 2001. The LNB and OFA systems were placed in service at that time. However, the IFGR system was not placed in service and tuned until May, 2002. Therefore, the generation period should remain as January 2002 through December 2002.

Lake Creek Unit 2

TCEQ Question: When was the BOOS firing implemented in 2002? The generation period will be from the time the BOOS was implemented to December

TXU Response: With the approach of deregulation and increased competition, Lake Creek Unit 2 experienced more cyclic duty in 2001. Efforts to improve the unit's operation at low loads were initiated during the later part of 2001. Low load operation requires fewer burners in service and different burner firing patterns were tried. Successful BOOS firing patterns were determined which also resulted in reducing the NOx emissions. Therefore, the generation period should be January 2002 through December 2002. Additional BOOS firing testing was completed with success in August of 2003. Whenever an improved and repeatable BOOS firing pattern is found, it becomes part of the unit's operating procedures. The present operating procedures have incorporated the optimal pattern developed in 2003.

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March 28, 2003

Certified Mail# 7000 0600 0024 7111 5699

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Mr. Steve Sun Texas Commission on Environmental Quality Emission Banking and Trading Program, MC-162 P.O. Box 13087 Austin, Texas 78711-3087

Subject: Discrete Emission Reduction Credits for TXU East System Units

Dear Mr. Sun:

Please find enclosed completed Texas Commission on Environmental Quality (TCEQ) Forms DEC-1 (Notice of Generation and Generator Certification of Discrete Emission Credits) for Discrete Emission Reduction Credits (DERCs) generated during the period from January 1, 2002 through December 31, 2002 for units at the following eight (8) power plants:

Plant Name	Unit No.	TCEQ Account No.
Big Brown SES	1, 2	FI-0020-W
Lake Creek	2	MB-0117-A
Martin Lake SES	2, 3	RL-0020-K
Monticello SES	1, 2, 3	TF-0013-B
Stryker Creek SES	1, 2	CJ-0026-J
Tradinghouse SES	1,2	MB-0016-C
Trinidad SES	6	НМ-0017-Н
Valley SES	1	FB-0025-U

In addition to the completed Form DEC-1 for each of the above units, TXU is providing a summary of the DERCs generated for each unit (Attachment 1), monthly data for the calendar year 2002 strategy period (Attachment 2), and monthly data for baseline years 1997 through 2001 (Attachment 3).

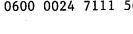
If you have any questions regarding the enclosed information, please feel free to contact me at (214) 812-8416.

Sincerely, Just

James R. Robertson Air Quality Manager

Enclosures and Attachments





RECEIVED

APR - 1 2003

AIR PERMITS DIVISION



Form DEC-1 (Page 1) Notice of Generation and Generator Certification of Discrete Emission Credits (Title 30 Texas Administrative Code § 101.370 - § 101.374)

UPDATE: The TNRCC is now requiring all applications to be accompanied by the new TNRCC CORE Data Form located at: <u>http://www.tnrcc.state.tx.us/permitting/projects/cr/index.html</u>.

A notice of generation and generator certification must be submitted to the Texas Natural Resource Conservation Commission (TNRCC) DERC Registry in accordance with the following requirements if the reduction is to be creditable and marketable:

I. COMPANY IDENTIFYING INFO	RMATION												
A. Company Name: TXU Generation	Company LP												
B. Owner or Operator of Generator Sou	rce: TXU Generation Co	ompany LP											
C. Plant/Site Name: Valley Electric S	tation												
D. Street Address: 2 mi. North of Savo	oy on FM 1752												
E. Nearest City: Savoy		F. Zip Code: 75479)										
G. County: Fammin	County: Fammin H. Primary SIC: 4911												
I. TNRCC Account No.: FB-0025-U	TNRCC Account No.: FB-0025-U												
J. Telephone: 214-812-8416		K. Fax: 214-812-43	995										
L. Mailing Address: 1601 Bryan Street													
City: Dallas		State: Texas	Zip Code: 75	201-3411									
II. TECHNICAL CONTACT IDENT	IFYING INFORMATIO	ON											
A. Technical Contact Name: (XMr.	_MrsMsDr.) Di	ck Robertson											
B. Technical Contact Title: Air Qualit	y Manager												
C. Telephone: 214-812-8416	D. Fax: 214-812-4395	E. Email: d	lick.robertson@txu.com	· · · · · · · · · · · · · · · · · · ·									
F. Mailing Address: 1601 Bryan Stree	et												
G. City: Dallas		State: Texas	Zip Code: 75	201-3411									
III. CONTACT FOR SALE OF CERT	IFICATE												
A. Contact Name: (X Mr. Mrs. 1	MsDr.) Dick Robert	son											
B. Sale Contact Title: Air Quality Man	nager												
C. Telephone: 214-812-8416	D. Fax: 214-812-4395	E. Email: d	lick.robertson@txu.com										
F. Mailing Address: 1601 Bryan Stree	t												
G. City: Dallas		State: Texas	Zip Code: 75	201-3411									
IV. Generation Period													
X 12 months Other Days/mon	ths		Generation Period St Generation Period E										
V. Generation Activity													
Shutdown X Additional Control	Other:												
Date of Shutdown: _/ /_			Date of	Reduction: <u>/ /</u>									

TNRCC-10391 (Rev. 12/20/01)

These forms are for use by the sources participating in the Emission Banking and Trading Program and are subject to revision.

Page ____ of ___



Form DEC-1 (Page 2) Notice of Generation and Generator Certification of Discrete Emission Credits (Title 30 Texas Administrative Code § 101.370 - § 101.374)

VI. EMISSIONS RATE DATA

Attach documentation which demonstrates the basis for each value represented in the following table.

If SA > BA, then: (BER*BA) - (SER*SA) = reduction

If SA < BA, then: (BER*BA) - (SER*BA) = reduction

					Calculatio	on of DERCs		
Emission Point No.	FIN	Air Contaminant	Baseline Activity (units)	Baseline Emission Rate (units)	Strategy Activity (units)	Strategy Emission Rate (units)	Most stringent emission rate (units)	DERCs (T)
VA-B1SA VA-B1SB	VA-B1 VA-B1	NO _x	4,537,681 (mmBtu)	0.255 (lb/mmBtu)	4,537,681 (mmBtu)	0.238 (lb/mmBtu)	(lb/mmBtu)	37.9
Has producti		Reduction Strate		ther facility in th		ainment area?		
VIII. VOC			- maile					
List Specific	Compounds	reduced:						
Emission Point No		FIN			e of Air aminant		DERCs (T)	
·····								
					. <u> </u>			



Form DEC-1 (Page 3) Notice of Generation and Generator Certification of Discrete Emission Credits (Title 30 Texas Administrative Code § 101.370 - § 101.374)

VIII. Most Strigent Emission Rate
Describe basis for most stringent emission rate: Permit RACT X Other:
30 TAC 117.104
IX. Protocol
Protocol used to calculate DERC: Continuous Emissions Monitoring (CEM)
VIII. CERTIFICATION BY RESPONSIBLE OFFICIAL
I,
Title Environmental Permitting Manager

ATTACHMENT 1

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SUMMARY OF DISCRETE EMISSIONS REDUCTION CREDITS (DERCs) TXU SYSTEM EAST – 2002 STRATEGY YEAR

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Attachment 1

Summary of Discrete Emissions Reductions Credits (DERC) TXU System East - 2002 Strategy Period

			1997 - Baselin	6		1998 - Baseli	ne		1999 - Baselir	**		2000 - Baseli	ne		2001 - Strate	97		2002 - Strateg	y	1997	1997 + 1958	1998 + 1999		2000 + 2001		Bas	eline	84	rategy	
Plant Name	Unit ID	NOx (Tons)	. Heat (mmBtu)	NOx Rate	NOx (Tons)	Heat (mmBtu)	NOx Rate	NOx (Tons)	Heat (mmBtu)	NOx Rate	NOx (Tons)	Heat (mm8tu)	NOx Rate	NOx (Tons)	Heat (mmBtu)	NOx Rate	NOx (Tons)	Heat (mmStu)	NOx Rate	Tens NO _X	Baseli	ine years Annua	(<i>averag</i> i I Tona)	e NOx	Baseline Year	activity (mmBtu) average of 2 years	Ave Emission Rate (ib NOx/mmBtu)	sclivily (mmBtu)	Emission Rate (ib NOs/mmBtu)	
Big Brown	1	7,617	38,093,471	0.400	6,763	39,195,966	0.345	5,907	34,892,890	0.339	9,646	50,362,256	0.383	5,044	43,403,694	0.232	3,509	50,479,544	0.151	7,617	7,190	6,335	7,777	7,345	2000/2001	46,682,975	0.308	50,479,544	0.151	3405.1
	2	6,584	36,742,718	0.358	6,231	34,477,438	9.361	7,005	39,613,237	0.354	9,525	51,572,760	0.369	7,264	43,526,290	0.334	3,394	40,189,052	0.169	6,584	6,408	6,618	6,265	6,395	1997/1998	35,810,077	0.350	40,189,052	0.169	3014.5
Lake Creek	2	974	6,576,876	0.296	1,324	8,372,082	0.316	1,036	6,174,147	0.336	1,390	7,637,485	0.364	659	5,182,054	0.254	477	3,231,753	0.295	974	1,149	1,160	1,213	1,025	1997	6,576,876	0.296	3,231,753	0.295	3.4
Martin Lake	2	9,049	60,748,884	0.293	9,933	62,127,579	0.320	8,665	68,718,536	0.260	9,014	62,756,107	0.287	5,292	55,503,207	0.191	4,481	56,507,381	0.159	9,049	9,491	9,309	8,849	7,153	1999/2000	64,737,322	0.274	56,507,381	0.159	3729.8
	3	12,039	64,852,652	0.371	10,777	61,195,787	0.352	10,506	66,337,042	0.317	9,641	62,759,223	0.307	8,456	62,169,936	0.272	4,503	54,401,590	0.166	12,039	11,408	10,641	10,074	9,049	1997/1998	63,024,220	0.362	64,401,590	0.168	6182.6
Monticello	1	6,944	44,333,793	0.313	6,217	42,287,506	0.294	7,013	46,414,547	0.302	7,254	47,749,921	0.304	6,468	42,689,947	0.303	4,102	41,514,094	0.198	6,944	6,581	6,615	7,133	6,861	2000/2001	45,219,934	0.303	41,514,094	0.195	2391.7
[2	6,654	41,966,028	9.317	8,127	50,110,665	0.324	6,292	43,796,776	0.287	6,457	41,697,400	0.308	6,604	47,781,922	0.285	6,224	47,261,811	0.263	6,654	7,391	7,210	6,375	6,631	2000/2001	44,839,681	0.297	47,261,811	0.263	423.8
	3	8,290	68,400,090	0.242	6,459	57,565,151	0,224	7,190	64,160,668	0.224	8,614	55,575,333	0.238	5,791	55,997,020	0.207	5,593	60,149,606	0.166	8,290	7,375	8,824	6,902	6,203	1997/1998	62,982,521	0.233	60,149,606	9.158	1493.7
Stryker Creek	1	928	3,488,700	0.532	1,322	4,950,361	0.534	1,164	4,167,444	0.559	1,559	5,203,388	0.599	932	4,033,633	0.452	165	750,807	0.439	928	1,125	1,243	1,362	1,248	1997	3,488,700	0.532	750,607	0.439	161.7
	2	1,388	18,410,478	0.151	1,649	20,596,421	0.160	1,668	22,778,488	0.148	1,000	20,313,355	0.098	697	14,682,668	0.095	462	10,549,799	0.088	1,388	1,518	1,568	1,344	849	1999/2000	21,545,922	0.123	10,549,799	0.088	385.4
Tradinghouse	1	4,013	19,500,254	0.412	5,438	24,207,277	0.449	4,801	21,052,174	0.456	3,758	17,067,868	0.440	2,418	14,637,125	0.330	1,708	15,314,799	0.223	4,013	4,725	5,119	4,280	3,088	2000/2001	15,852,497	0.385	15,314,799	0.223	1288.9
	2	7,889	31,810,175	0.496	9,602	38,703,995	0.507	10,354	37,313,289	0.555	10,289	35,425,197	0.581	9,145	34,665,850	0.528	3,640	15,636,635	0.466	7,669	8,846	10,078	10,322	9,717	1997	31,810,175	0.496	15,636,635	0.466	484.3
Trinidad	6	596	6,068,915	0.196	665	6,064,211	0.219	564	5,080,162	0.222	415	4,409,841	0.188	447	4,603,460	0.194	253	2,519,348	0.201	596	631	614	469	431	1998/2000	4,745,032	0.205	2,519,348	0.201	9.8
Valley	1	579	4,537,681	0.255	770	5,144,344	0.299	682	4,397,127	0.310	915	5,631,686	0.325	604	3,571,605	0.338	256	2,147,845	0.238	579	675	726	799	759	1,997	4,537,691	0.255	2,147,845	0.238	37.9
·						<u> </u>																						Tet	t DERCs (Tons):	23011.5

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Non DFW 2003 DERCs.uts 3/28/2003

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2003 Monthly Strategy Data Valley Unit 1

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UnitID	Date	NOx lbs	mmBtu	NO _x Rate
VA01	01 2002	28875.60	125518.90	
VA01	02 2002	64847.60	258208.20	
VA01	03 2002	56514.50	221891.70	
VA01	04 2002	94675.40	377029.80	
VA01	05 2002	40518.30	182867.20	
VA01	06 2002	62320.30	263077.30	
VA01	07 2002	46026.90	197709.50	
VA01	08 2002	46720.00	201499.10	
VA01	09 2002	41896.50	176264.10	
VA01	10 2002	20198.50	98147.30	
VA01	11 2002	2609.70	16725.40	
VA01	12 2002	6970.40	28906.00	
	Annual	512,173.70	2,147,844.50	0.238

1997 EDR DATA FROM CEMS DATABASE

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Unit	Date By Month	Total mmBtu	Total NOx lbs	Ib NOX/MMBtu	NOX APPEN E
VA1	9701	359.854.1	78,562.5	0.22	0.0
VA1 VA1	9701	78,920.6	16,720.6	0.22	0.0
VA1	9703	134,068.0	29,195.7	0.22	0.0
VA1	9704	333,356.7	73,136.6	0.22	0.0
VA1	9705	255,241.0	62,642.1	0.25	0.0
VA1	9706	385,134.9	94,988.4	0.25	0.0
VA1	9707	743,978.9	197,748.7	0.27	0.0
VA1	9708	699,417.5	183,665.0	0.26	0.0
VA1	9709	555,786.4	160,042.3	0.29	0.0
VA1	9710	423,260.7	107,691.0	0.25	0.0
VA1	9711	332,288.4	99,047.7	0.30	0.0
VA1	9712	236,374.0	57,734.1	0.24	0.0
TOTALS		4,537,681.1	580.6		

1998 EDR DATA FROM CEMS DATABASE

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Unit	Date By Month	Total mmBtu	Total NOx lbs	NOx APPEN E
VA1	9801	128,681.7	27,615.9	0.0
VA1	9802	251,150.7	55,307.0	0.0
VA1	9803	425,142.4	105,408.6	0.0
VA1	9804	27,731.7	7,131.1	0.0
VA1	9805	627,624.1	181,342.6	0.0
VA1	9806	742,087.0	254,588.5	0.0
VA1	9807	886,740.6	302,033.4	0.0
VA1	9808	766,315.8	221,436.7	0.0
VA1	9809	575,779.1	187,043.2	0.0
VA1	9810	302,231.2	90,097.5	0.0
VA1	9811	187,048.9	49,957.8	0.0
VA1	9812	223,810.2	58,494.5	0.0
TOTALS		5,144,343.5	770.2	

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Unit	Date By Month	Total mmBtu	Total NOx lbs	NOX APPEN E
VA1	9901	259,708.5	67,207.7	0.0
VA1	9902	182,951.9	47,344.0	0.0
VA1	9903	268,037.5	84,645.0	0.0
VA1	9904	208,602.1	61,167.9	0.0
VA1	9905	297,798.3	88,239.8	0.0
VA1	9906	476,717.1	138,070.3	0.0
VA1	9907	729,954.1	244,150.1	0.0
VA1	9908	769,051.2	258,066.5	0.0
VA1	9909	454,905.1	155,065.5	0.0
VA1	9910	340,619.0	109,560.9	0.0
VA1	9911	179,973.4	50,664.9	0.0
VA1	9912	228,809.5	59,810.2	0.0
TOTALS	1	4,397,127.7	682.0	İ

Valley Steam Electric Station TNRCC Account Number : FB-0025-U Baseline Data for 2001

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	Total Heat Input (mmBtu)	Calc. NOx Mass (lb)	Weighted NOx Rate (lb/mmBtu)		
VA1					
Jan	310,779	102,506	0.330		
Feb	225,805	75,283	0.333		
Mar	204,544	71,982	0.352		
Apr	287,838	101,259	0.352		
May	231,963	78,975	0.340		
Jun	341,321	121,535	0.356		
Jul	572,563	215,080	0.376		
Aug	534,354	194,471	0.364		
Sep	280,437	96,742	0.345		
Oct	130,735	36,505	0.279		
Nov	216,215	53,943	0.249		
Dec	235,054	59,418	0.253		
Annual Total	3,571,608	1,207,698	0.338		