

AIR DERC_102212925-405882-
USE_20121017_Use**10/17/2012 ----- EBTP IMS- PROJECT RECORD -----**PROJECT#: 405882
RECEIVED: 05/09/2011STATUS: P
PROJTYPE: BDIUDISP CODE: W ✓
ISSUED DT:
SUP-DISP DATE: 10/17/12**STAFF ASSIGNED TO PROJECT:**

DANIEL, SHANTHA

PROJECT NOTES:

PROJECT ON HOLD AND DELAYED DUE TO PERSONNEL CHANGES.

DERC INTENT WAS FOR THE USE PERIOD 6/20/2011 TO 6/20/2012. PER DEC-3 FORM, RECEIVED 9/18/2012, NO DERCS WERE USED DURING THE USE PERIOD. THEREFORE, AT TCEQ'S REQUEST, THE PROJECT WAS WITHDRAWN ON 10/12/2012, VIA E-MAIL, BY MS. BLANKENHORN.

PROJECT TRANSACTIONS**COMPANY DATA**COMPANY NAME: EXXON MOBIL CORPORATION
CUSTOMER REGISTRY ID: CN600123939**PORTFOLIO DATA**

NUMBER: P0275 NAME: EXXON MOBIL BAYTOWN OLEFINS PLANT - RN102212925

SITE DATAACCOUNT: HG0228H
REG ENTITY ID: RN102212925
SITE NAME: EXXON MOBIL CHEMICAL BAYTOWN OLEFINS PLANT
COUNTY: HARRIS NEAREST CITY: BAYTOWN
LOCATION: 3525 DECKER DRIVE, BAYTOWN 77520**CONTACT DATA**NAME: CARON BLANKENHORN TITLE: AIR ADVISOR
STREET: P.O. BOX 4004 CITY/STATE, ZIP: BAYTOWN, TX, 77522-4004
PHONE: 281-834-5297 ext 0
FAX: 281-834-5788 ext 0
Email: caron.l.blankenhorn@exxonmobil.com**TRANSACTION DATA**

TRANSACTION TYPE: DERC_INTEN

DATE ENTERED: 2011-05-11 00:00:00.0

CONTAMINATE: NOX

ALLOWANCE

DELETED DATE: EFFECTIVE YEAR:

TONS: 0 DOLLARS: 0

CERTIFICATE NO.: 0 COUNTY : HARRIS

TRACKING ACTIVITES

PM RECEIVED DATE :	09/19/2011	PROJECT HOLD :	09/19/2011 10/12/2012	TR - PROJ TECH COMPLETE :	10/17/2012
TR - SUP/MANGR APP/RVW RQSTD :	10/17/2012	LETTER ISSUED :		TR - DATE SUP/MNGR REQ ADDL TR :	



Form DEC-2 (Page 1)
Notice of Intent To Use Discrete Emission Credits
(Title 30 Texas Administrative Code § 101.370 - § 101.379)

RECEIVED
MAY 09 2011
AIR QUALITY
DIVISION

405882

XC

I. Company Identifying Information		
A. Company Name: EXXONMOBIL CHEMICAL COMPANY ✓		
Mailing Address: PO BOX 4004		
City: BAYTOWN	State: TEXAS	Zip Code: 77522-4004
Telephone: 281-834-5297	Exxon Mobil Corporation	Fax: 281-834-5788
B. TCEQ Customer Number (CN): CN600123939 CN601549660?		
C. Site Name: BAYTOWN OLEFINS PLANT		
Street Address: (if no street address, give driving directions to site) 3525 DECKER DRIVE		
Nearest City: BAYTOWN	Zip Code: 77520	County: HARRIS
D. TCEQ Regulated Entity Number (RN): RN102212925 ✓ HG-0228-H 90275		
E. Primary SIC: 2869		Air Permit Number: 9910/3452
II. Technical Contact Identifying Information		
A. Technical Contact Name: (Mr. Mrs. ✓Ms. Dr.) CARON BLANKENHORN		
Technical Contact Title: AIR ADVISOR		
Mailing Address: PO BOX 4004		
City: BAYTOWN	State: TEXAS	Zip Code: 77522-4004
Telephone: 281-834-5297	Fax: 281-834-5788	E-mail: caron.l.blankenhorn@exxonmobil.com
III. Mass Emission Cap and Trade Program (MECT)		
Is the DERC use for compliance with 30 TAC Chapter 101 Subchapter H, Division 3? ☐ YES ☒ NO		
Year DERC Generated: _____ Year of Use: _____ Ratio of DERC to Allowance: _____ to _____		
Note: If DERC use is to comply with MECT then go to Section IX		
IV. Intended Use Period		
Intended Use Start Date 6/20/11		Intended Use End Date 6/20/12



Form DEC-2 (Page 2)
Notice of Intent To Use Discrete Emission Credits
(Title 30 Texas Administrative Code § 101.370 - § 101.379)

V. State and Federal Requirements

Applicable State and Federal requirements that the DERCs will be used for compliance:
§117.320

VI. Most Stringent Emission Rate

Describe basis for most stringent allowable emission rate:

☐ Permit _____ ☐ RACT _____ ☒ Other: §117.320+

Notes:

The most stringent allowable emission rate is the MAERT rate in NSR Permit No. 3452, however, the overall most stringent emission rate is the daily and rolling 30-day system caps.

Continue to Section VII (next page)



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Notice of Intent To Use Discrete Emission Credits
(Title 30 Texas Administrative Code § 101.370 - § 101.379)

VII. Tons of DERCS Required											
Emission Point No.	FIN	Air Contaminant	Calculation of DERCs								DERCs (tons)
			Expected Activity	Expected Emission Rate	Number of Days	Expected Total Emissions	Regulated Activity	Regulated Emission Rate	Regulated Total Emissions		
									value	(units)	
HRSG1	SGT01/HRSG01		MMBtu	lb/MMBtu		tons	MMBtu	lb/MMBtu			tons
HRSG2	SGT02/HRSG02										
HRSG3	SGT03/HRSG03										
HRSG4	SGT04/HRSG04										
HRSG5	SGT05/HRSG05										
System Cap - daily	ozone season	NOx	122,280	0.090	5	27.40	92,500	0.032	1.48	tons per day	20.0
System Cap - rolling 30-day	ozone season	NOx	3,729,540	0.029		53.70	2,106,250	0.032	33.70	tons per 30-days	20.0
System Cap - daily	non-ozone season	NOx	122,280	0.090	5	27.40	92,500	0.032	1.48	tons per day	20.0
System Cap - rolling 30-day	non-ozone season	NOx	3,729,540	0.030		56.24	2,265,000	0.032	36.24	tons per 30-days	20.0
									Total:		80.0



Form DEC-2 (Page 4)
Notice of Intent To Use Discrete Emission Credits
(Title 30 Texas Administrative Code § 101.370 - § 101.379)

VIII. Protocol

Protocol used to calculate DERC:

Note: Attach the actual calculations that were used to determine the amounts of DERCs needed to this form

IX. Total DERCS Required for Use (round up to the nearest tenth of a ton)

Tons of DERCs required (from Sect. VII.)	CO: _____	NO _x : <u>80</u>	PM ₁₀ : _____	SO ₂ : _____	VOC: _____
Offset Ratio (if required)	CO: _____	NO _x : _____	PM ₁₀ : _____	SO ₂ : _____	VOC: _____
Environmental Contribution (+ 10%)	CO: _____	NO _x : <u>8</u>	PM ₁₀ : _____	SO ₂ : _____	VOC: _____
Compliance Margin (+ 5%) (If DERC use requires >10 tons)	CO: _____	NO _x : <u>4</u>	PM ₁₀ : _____	SO ₂ : _____	VOC: _____
Total DERCs	CO: _____	NO _x : <u>92</u>	PM ₁₀ : _____	SO ₂ : _____	VOC: _____

X. DERC Information

Name of the DERC Generator: EXXONMOBIL BAYTOWN OLEFINS PLANT

DERC Generator Regulated Entity Number: RN102212925

Certificate number of the DERCs acquired or to be acquired: D-1069

Note: The certificate number is assigned by the TCEQ



Form DEC-2 (Page 5)
Notice of Intent To Use Discrete Emission Reduction Credits
(Title 30 Texas Administrative Code § 101.370 - § 101.379)

XI. Purchase Date and Price

Date on which the DERs were acquired or will be acquired: 06/17/2003

Price or expected price of the DERs: \$ 0.0 ☒ per ton (Required)

XII. Certification by Responsible Official

I Amy Climo, hereby certify, that the emission reductions claimed on this notice meet the requirements of 30 TAC Chapter 101, Subchapter H, Division 4. I further state that to the best of my knowledge and belief the information in this certification is not in any way in violation of 30 TAC, Subchapter H, Division 4, §101.370-101.379 or any applicable air quality rule or regulation of the Texas Commission on Environmental Quality and that intentionally or knowingly making or causing to be made false material statements or representations in this certification is a CRIMINAL OFFENSE subject to criminal penalties.

Signature *Amy Climo* Signature Date 5/5/11
Title ENVIRONMENTAL SECTION SUPERVISOR

Mail application to:
Emission Banking and Trading Program
TCEQ MC-206
PO BOX 13087
AUSTIN, TX 78711-3087

ExxonMobil Chemical Company

3525 Decker Drive
Baytown, TX 77520-1699

Received

MAY 09 2011

ExxonMobil Air Quality Division
Chemical

CERTIFIED MAIL

May 5, 2011

Application for Notice of Intent to Use
Discrete Emission Reduction Credits
Form DEC-2
ExxonMobil Chemical Company
Baytown Olefins Plant
Baytown, Harris County
Account No.: HG-0228-H
RN102212925

Texas Commission on Environmental Quality
Emissions Banking and Trading - MC 206
P.O. Box 13087
Austin, Texas 78711-3087

ExxonMobil Chemical Company is respectfully submitting an Application for Notice of Intent to Use Discrete Emission Reduction Credits (DERCs), DEC-2, to use 92 tons of NOx DERCs for \$117.320, system cap compliance, at the Baytown Olefins Plant (HG-0228-H), RN102212925. Per Section VIII. of the DEC-2 and §101.376, we are also providing the calculation protocol used to determine the number of DERCs needed for the use period of **June 20, 2011, through June 20, 2012** (Attachment A).

If you have any questions concerning this application, please contact me at (281) 834-5297.

Sincerely,



Caron Blankenhorn
Air Advisor

ATTACHMENT A

DAILY CAP

$$\left[(EH \times EER) \times \frac{1 \text{ ton}}{2000 \text{ lbs}} \right] - \left[(RH \times RER) \times \frac{1 \text{ ton}}{2000 \text{ lbs}} \right]$$

Where:

RER = maximum emission rate in lb/MMBtu, is defined as in §117.320(c)(3)
= 0.032 lb/MMBtu

RH = the maximum daily heat input, in MMBtu/day, as defined in §117.320(c)(3)
= 92,568 MMBtu/day

EH = expected heat input, in MMBtu per day for Trains 1 – 5
= 122,280 MMBtu/day

EER = expected average emission rate, in lb/MMBtu for Trains 1 – 5
= 0.090 lb/MMBtu

R_i = §117.310(a)(1)(A)

H_i = Max daily HI?

$$\left(\frac{122,280 \text{ MMBtu}}{\text{day}} \times \frac{0.090 \text{ lb}}{\text{MMBtu}} \times \frac{1 \text{ ton}}{2000 \text{ lbs}} \right) - \left(\frac{92,568 \text{ MMBtu}}{\text{day}} \times \frac{0.032 \text{ lb}}{\text{MMBtu}} \times \frac{1 \text{ ton}}{2000 \text{ lbs}} \right)$$

$$= \frac{5.48 \text{ tons}}{\text{day}} - \frac{1.48 \text{ tons}}{\text{day}} = \frac{4.0 \text{ tons}}{\text{day}}$$

Amount of DERCS Used for Daily Cap:

5.48 tons/day, total emissions - 1.48 tons/day, allowances = 4.0 tons/day, excess

Expected duration = 5 days

Total DERC need = 4.0 tons/day * 5 days = 20.0 tons

30-DAY TOTAL CAP – OZONE SEASON

$$\left[(EH \times EER) \times \frac{1 \text{ ton}}{2000 \text{ lbs}} \right] - \left[(RH \times RER) \times \frac{1 \text{ ton}}{2000 \text{ lbs}} \right]$$

Where:

RER = maximum emission rate in lb/MMBtu, is defined as in §117.320(c)(1)
= 0.032 lb/MMBtu

RH = the maximum daily heat input, in MMBtu/day, as defined in §117.320(c)(1)
= 2,106,250 MMBtu/30-days

EH = expected heat input, in MMBtu per day for Trains 1 – 5
= 3,729,540 MMBtu/30-days

EER = expected average emission rate, in lb/MMBtu for Trains 1 – 5
= 0.029 lb/MMBtu

ATTACHMENT A (continued)

$$\begin{aligned} & \left(\frac{3,729,540 \text{ MMBtu}}{30 \text{ days}} \times \frac{0.029 \text{ lb}}{\text{MMBtu}} \times \frac{1 \text{ ton}}{2000 \text{ lbs}} \right) \\ & - \left(\frac{2,106,250 \text{ MMBtu}}{30 \text{ days}} \times \frac{0.032 \text{ lb}}{\text{MMBtu}} \times \frac{1 \text{ ton}}{2000 \text{ lbs}} \right) \\ & = \frac{53.70 \text{ tons}}{30 \text{ days}} - \frac{33.70 \text{ tons}}{30 \text{ days}} = \frac{20.0 \text{ tons}}{30 \text{ days}} \end{aligned}$$

Amount of DERCs Used for 30 Day Total Ozone Season System Cap:
53.70 tons/30days - 33.70 tons/30days = 20.0 tons

30-DAY TOTAL CAP – NON-OZONE SEASON

$$\left[(EH \times EER) \times \frac{1 \text{ ton}}{2000 \text{ lbs}} \right] - \left[(RH \times RER) \times \frac{1 \text{ ton}}{2000 \text{ lbs}} \right]$$

Where:

- RER** = maximum emission rate in lb/MMBtu, is defined as in §117.320(c)(2)
= 0.032 lb/MMBtu
- RH** = the maximum daily heat input, in MMBtu/day, as defined in §117.320(c)(2)
= 2,265,000 MMBtu/30-days
- EH** = expected heat input, in MMBtu per day for Trains 1 – 5
= 3,729,540 MMBtu/30-days
- EER** = expected average emission rate, in lb/MMBtu for Trains 1 – 5
= 0.030 lb/MMBtu

$$\begin{aligned} & \left(\frac{3,729,540 \text{ MMBtu}}{30 \text{ days}} \times \frac{0.030 \text{ lb}}{\text{MMBtu}} \times \frac{1 \text{ ton}}{2000 \text{ lbs}} \right) \\ & - \left(\frac{2,265,000 \text{ MMBtu}}{30 \text{ days}} \times \frac{0.032 \text{ lb}}{\text{MMBtu}} \times \frac{1 \text{ ton}}{2000 \text{ lbs}} \right) \\ & = \frac{56.24 \text{ tons}}{30 \text{ days}} - \frac{36.24 \text{ tons}}{30 \text{ days}} = \frac{20.0 \text{ tons}}{30 \text{ days}} \end{aligned}$$

Amount of DERCs Used for 30 Day Total Ozone Season System Cap:
56.24 tons/30days - 36.24 tons/30days = 20.0 tons

Shantha Daniel

From: Blankenhorn, Caron L [caron.l.blankenhorn@exxonmobil.com]
Sent: Friday, October 12, 2012 8:25 AM
To: Shantha Daniel
Cc: Brandon Greulich
Subject: RE: Withdrawal of NOX DERC Intent and Use Applications at the ExxonMobil Chemical Baytown Olefins Plant RN102212925

Shantha,

I agree to the withdrawal of the projects listed below.

Thanks,

Caron Blankenhorn
Air Regulatory Issues Advisor
Safety, Health, and Environmental Department
ExxonMobil Baytown Complex, CAB W-106
281-834-5297 Office
281-834-5788 Fax
Caron.L.Blankenhorn@exxonmobil.com

From: Shantha Daniel [<mailto:shantha.daniel@tceq.texas.gov>]
Sent: Thursday, September 20, 2012 4:35 PM
To: Blankenhorn, Caron L
Cc: Brandon Greulich
Subject: Withdrawal of NOX DERC Intent and Use Applications at the ExxonMobil Chemical Baytown Olefins Plant RN102212925

Dear Ms. Blankenhorn,

We received the Notice of Use of Discrete Emission Credits (DEC-3 form) for the ExxonMobil Chemical Baytown Olefins Plant RN102212925 for the 6/20/2011 to 6/20/2012 use period on 9/18/2012. Based on the submitted form, it appears that there was zero DERC use during the 6/20/2011 to 6/20/2012 use period.

However, the Notice of Intent to Use Discrete Emission Credits (DEC-2 form) for the 6/20/2011 to 6/20/2012 use period was not processed. Since no NO_x DERCs were used during the 6/20/2011 to 6/20/2012 use period at the ExxonMobil Chemical Baytown Olefins Plant (RN102212925), we request that you withdraw the DERC applications related to the following two projects.

405882 – Notice of Intent to Use Discrete Emission Credits (DEC-2 form), received 5/9/2011.

407345 – Notice of Use of Discrete Emission Credits (DEC-3 form), received 9/18/2012.

The project record will reflect that Exxon Mobil submitted the necessary paperwork in a timely manner.

We understand that such application withdrawal is not normal. The withdrawal will save TCEQ time and expedite the process of getting caught up on the remainder of ExxonMobil Chemical Baytown Olefins Plant's latest required applications.

We do not expect to request any such withdrawals for any other applications.

Please let me know if you agree to withdrawing the projects.

Thanks you for your cooperation.

Shantha Daniel, Ph.D.
Texas Commission on Environmental Quality
Emissions Banking and Trading Program