# IN THE UNITED STATES DISTRICT COURT FOR THE SOUTHERN DISTRICT OF TEXAS

UNITED STATES OF AMERICA, STATE OF ILLINOIS, STATE OF LOUISIANA, STATE OF NEW JERSEY, COMMONWEALTH OF PENNSYLVANIA, NORTHWEST CLEAN AIR AGENCY,	) ) ) ) ) ) ) CIVIL ACTION NO. H-05-258
Plaintiffs,	) JUDGE SIM LAKE
V.	)
CONOCOPHILLIPS COMPANY, WRB REFINING, LLC,	)
Defendants.	)
	_)

#### SECOND AMENDMENT TO CONSENT DECREE

WHEREAS, on January 27, 2005, Plaintiffs, the United States of America ("United States"), on behalf of the Environmental Protection Agency ("EPA"), Co-Plaintiff the State of Illinois ("Illinois"), on behalf of the Illinois Environmental Protection Agency ("IEPA"), Co-Plaintiff the State of Louisiana ("Louisiana"), on behalf of the Louisiana Department of Environmental Quality ("LDEQ"), Co-Plaintiff the State of New Jersey ("New Jersey"), at the request and on behalf of the New Jersey Department of Environmental Protection ("NJDEP"), Co-Plaintiff the Commonwealth of Pennsylvania ("Pennsylvania"), on behalf of the Pennsylvania Department of Environmental Protection ("PaDEP"), and Co-Plaintiff the Northwest Clean Air Agency ("NWCAA") (collectively "Plaintiffs") filed a complaint in this

action against and simultaneously lodged a consent decree with ConocoPhillips Company ("COPC");

WHEREAS, on December 5, 2005, this Court entered the consent decree (the "December 2005 Consent Decree") that fully resolved the claims in the complaint;

WHEREAS, on May 1, 2007, a First Amendment to the December 2005 Consent Decree was entered;

WHEREAS, on September 27, 2007, this Court approved a stipulated order adding WRB Refining LLC ("WRB Refining") as a party to the Consent Decree for certain obligations at the Wood River and Borger Refineries as the owner of those refineries,

WHEREAS, the December 2005 Consent Decree as modified by the First Amendment and the addition of WRB Refining as a Defendant hereinafter shall be referred to as the "Consent Decree" or "Decree";

WHEREAS, as reflected in this Second Amendment, Plaintiffs, COPC, and WRB Refining ("the Parties") have agreed upon certain additional modifications pursuant to Paragraph 437 of the Consent Decree;

WHEREAS, as required by Section V.J "NSPS Applicability of Flaring Devices", COPC has already complied with its requirement to certify that fifty (50) percent of the system-wide Flaring Devices identified in Appendix A are in compliance with one of the four compliance methods set forth in paragraph 139; has specifically submitted Alternative Monitoring Plans for some Flaring Devices that combust only vapors that are collected and combusted to comply with the wastewater provisions in 40 C.F.R. Section 60.692, 40 C.F.R. Section 61.343 through 61.348, or 40 C.F.R. Section 63.647, or the marine tank vessel loading provisions in 40 C.F.R.

Section 63.652 or 63.651; and will continue to submit such AMPs unless and until the monitoring requirements of Subpart J are amended;

WHEREAS, in consideration of additional time to install the controls required by the Supplemental Environmental Project in Paragraph 268, COPC agreed to the additional injunctive relief found in Paragraph 255A;

WHEREAS, the implementation of the additional injunctive relief in Paragraph 255A more than offsets any excess emissions that may be generated during the extension of time granted in revised Paragraph 268;

WHEREAS, the Parties recognize, and the Court by entering this Second Amendment finds, that this Second Amendment has been negotiated at arm's length and in good faith and that this Second Amendment is fair, reasonable, and in the public interest;

NOW THEREFORE, before the taking of any testimony, without adjudication of any issue of fact or law, and upon the consent and agreement of the Parties, it is hereby ORDERED, ADJUDGED, and DECREED as follows:

# **AMENDED AND RESTATED SECTIONS**

The Consent Decree shall remain in full force and effect in accordance with its terms, except that new Paragraphs numbered 57A, 179A, 179B, 179C, 255A, 272A, 286A, 288A, 353A, 353B, 353C, 353D, 412A, and 417A are added and Paragraphs 11(B), (D), (HH) and (JJ), 61, 62, 63, 64, 65, 67, 67A, 68, 69, 74, 75, 77, 139, 143, 216, 217, 229, 230, 231, 268, 275, 413 and 433 are revised. Additionally Appendix A is revised and Appendix I is added.

\* \* \* \*

11. Unless otherwise defined herein, terms used in the Consent Decree will have the meaning given to those terms in the Clean Air Act and the implementing regulations promulgated thereunder. The following terms used in the Consent Decree will be defined for purposes of the Consent Decree and the reports and documents submitted pursuant thereto as follows:

\* \* \*

B. "Acid Gas Flaring" or "AG Flaring" shall mean the combustion of Acid Gas and/or Sour Water Stripper Gas in one or more AG Flaring Devices.

\* \* \*

D. "Acid Gas Flaring Incident" or "AG Flaring Incident" shall mean the continuous or intermittent combustion of Acid Gas and/or Sour Water Stripper Gas that results in the emission of sulfur dioxide equal to, or in excess of, five-hundred (500) pounds in any twenty-four (24) hour period; provided, however, that if five-hundred (500) pounds or more of sulfur dioxide have been emitted in a twenty-four (24) hour period and flaring continues into subsequent, contiguous, non-overlapping twenty-four (24) hour period(s), each period of which results in emissions equal to or in excess of five-hundred (500) pounds of sulfur dioxide, then only one AG Flaring Incident shall have occurred. Subsequent, contiguous, non-overlapping periods are measured from the initial commencement of flaring within the AG Flaring Incident. When AG Flaring occurs within a twenty-four hour period at more than one Flaring Device at a Covered Refinery, the quantities of sulfur dioxide attributable to AG Flaring emitted from each Flaring Device shall be added together for purposes of determining whether there is one AG Flaring Incident unless the root causes of the AG Flaring at the various Flaring Devices are not related to each other.

\* \* \*

HH. "Hydrocarbon Flaring" or "HC Flaring" shall mean the combustion of refinery-generated gases, except for Acid Gas and/or Sour Water Stripper Gas and/or Tail Gas, in one or more Hydrocarbon Flaring Devices.

JJ. "Hydrocarbon Flaring Incident" or "HC Flaring Incident" shall mean the continuous or intermittent combustion of refinery-generated gases, except for Acid Gas or Sour Water Stripper Gas or Tail Gas, that results in the emission of sulfur dioxide equal to, or greater than five hundred (500) pounds in a twenty-four (24) hour period; provided, however, that if five-hundred (500) pounds or more of sulfur dioxide have been emitted in any twenty-four (24) hour period and flaring continues into subsequent, contiguous, non-overlapping twenty-four (24) hour period(s), each period of which results in emissions equal to or in excess of five-hundred (500) pounds of sulfur dioxide, then only one HC Flaring Incident shall have occurred. Subsequent, contiguous, non-overlapping periods are measured from the initial commencement of Flaring within the HC Flaring Incident. When HC Flaring occurs within a twenty-four hour period at more than one Flaring Device at a Covered Refinery, the quantities of sulfur dioxide attributable to HC Flaring from each Flaring Device shall be added together for purposes of determining whether there is one HC Flaring Incident unless the root causes of the HC Flaring at the various Flaring Devices are not related to each other

\* \* \* \*

57A. Installation and Operation of a WGS at Sweeny FCCU 3. COPC will complete the installation and begin operation of a WGS at Sweeny FCCU 3 by no later than December 31, 2009. COPC will design the WGS to achieve an SO<sub>2</sub> concentration of 25 ppmvd or lower on a 365-day rolling average basis and 50 ppmvd or lower on a 7-day rolling average basis at 0% oxygen. By no later than June 30, 2010, COPC will comply with an SO<sub>2</sub> concentration limit of 25 ppmvd or lower on a 365-day rolling average basis and 50 ppmvd or lower on a 7-day rolling average basis at 0% oxygen.

\* \* \* \*

- 61. Use of SO<sub>2</sub> Reducing Catalyst Additives at the LAR Wilmington FCCU and Sweeny FCCU 27: Summary. The reduction of SO<sub>2</sub> emissions from the LAR Wilmington FCCU and Sweeny FCCU 27 will be accomplished by the use of SO<sub>2</sub> Reducing Catalyst Additives as described in Paragraphs 62 - 66.
- 62. SO<sub>2</sub> Baseline Data and SO<sub>2</sub> Model. By the dates set forth below, for the following baseline time periods, for the following FCCUs, COPC will submit to EPA and the Applicable Co-Plaintiff two reports: (1) a report of twelve (12) months of baseline data and (2) a report describing a model to predict uncontrolled SO<sub>2</sub> concentration and mass emission rate:

<u>FCCU</u>	Baseline Start	Baseline End	Report
LAR Wilmington	12/31/05	12/31/06	2/28/07
Sweeny 27	6/30/06	12/31/06	2/28/07

The baseline data will include all data considered in development of the model on a daily average basis, and, at a minimum, the data required in Paragraph 43. Upon request by EPA, COPC will submit any additional data that EPA determines it needs to evaluate the model. The report describing the model will include a description of how the model was developed including which parameters were considered, why parameters were eliminated, efforts and results of model validation, and the statistical methods used to arrive at the equation to predict uncontrolled SO<sub>2</sub> concentration and mass emission rate.

#### SO<sub>2</sub> Reducing Catalyst Additives – Short Term Trials 63.

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- By no later than the dates set forth in the table in Paragraph 63(c), COPC will (a) identify for EPA approval at least two commercially available brands of SO<sub>2</sub> Reducing Catalyst Additives, for each FCCU, that COPC proposes to use for shortterm trials and submit a protocol to EPA for conducting the trials.
- (b) COPC will propose use of at least two brands of SO<sub>2</sub> Reducing Catalyst Additives that are likely to perform the best in each FCCU. EPA will base its approval or disapproval on its assessment of the performance of the proposed brands of additives in other FCCUs, the similarity of those FCCUs to COPC's FCCUs, as well as any other relevant factors, with the objective of conducting trials of the brands of SO<sub>2</sub> Reducing Catalyst Additives likely to have the best performance in reducing SO<sub>2</sub> emissions. In the event that COPC submits less than two approvable brands of additives, EPA will identify other approved additives brands to COPC.
- If EPA has approved two brands of SO<sub>2</sub> Reducing Catalyst Additives by no later (c) than the "trial start" date set forth below, then COPC will commence and complete the trials of those two brands and will submit a report to EPA that describes the performance of each brand that was trialed by the following dates for each of the following FCCUs:

<u>FCCU</u>	COPC IDs 2 Additives and submits Protocol	Trial Starts	<u>Trial Ends</u>	Report Date
LAR Wilmington	9/30/07	3/31/08	9/30/08	11/30/08
Sweeny 27	8/31/06	12/31/06	6/30/07	8/31/07

If EPA has not approved two brands of additives by the "trial start" date, then subsequent deadlines will be modified as agreed by the parties.

(d) In the report on the short-term trials, COPC will propose to use the best performing brand of additive as measured by percentage of SO<sub>2</sub> emissions reduced and the concentration to which SO<sub>2</sub> emissions were reduced in the trials, taking into account all relevant factors. EPA will either approve the proposed brand of additive or approve another brand of additive that was trialed for use in the optimization study. In approving an additive, EPA will consider the impact of the additive on the processing rate and/or the conversion capability if such impacts cannot be reasonably compensated for by adjusting operating parameters. Upon request by EPA, COPC will submit any additional available data that EPA determines it needs to evaluate the trials.

# 64. SO<sub>2</sub> Reducing Catalyst Additives – Optimization Study and Report

- (a) By no later than the dates set forth in the table in Paragraph 64(c) ("Paragraph 64(c) Table"), COPC will submit, for EPA approval, a proposed protocol consistent with the requirements of Appendix D for optimization studies to establish the optimized SO<sub>2</sub> Reducing Catalyst Additive addition rates. The protocol will include methods to calculate effectiveness, methods for baseloading, and percent additive used at each increment tested.
- (b) If EPA has approved a brand of SO<sub>2</sub> Reducing Catalyst Additive by no later than the "Optimization Start" date set forth in the Paragraph 64(c) Table, then COPC will commence and complete the optimization study of the SO<sub>2</sub> Reducing Catalyst Additive in accordance with the approved protocol and Appendix D by no later than the dates set forth in the Paragraph 64(c) Table. If EPA has not approved a brand of SO<sub>2</sub> Reducing Catalyst Additive by no later than the "Optimization Start" date, then subsequent deadlines will be modified as agreed by the parties.
- (c) By no later than the following dates, COPC will report the results of the SO<sub>2</sub> Reducing Catalyst Additive Optimization Study and propose, for EPA approval, optimized addition rates of all catalysts to be used for the demonstration period.

<u>FCCU</u>	Protocol Due	Optimization Start	Optimization End	Report Due
LAR Wilmington	6/30/08	12/31/08	6/30/09	7/31/09
Sweeny 27	3/31/07	9/30/07	3/31/08	4/30/08

Upon request by EPA, COPC will submit any additional data that EPA determines it needs to evaluate the SO<sub>2</sub> Reducing Catalyst Additive Optimization Study.

- Ouring the Optimization Study, COPC will successively add SO<sub>2</sub> Reducing Catalyst at increments of 5.0, 6.7, 8.4, and 10.0 Weight % SO<sub>2</sub> Reducing Catalyst Additive. Once a steady state has been achieved at each increment, COPC will evaluate the performance of the SO<sub>2</sub> Reducing Catalyst Additive in terms of SO<sub>2</sub> emissions reductions. The final Optimized SO<sub>2</sub> Reducing Catalyst Additive Addition Rate, in pounds per day, will occur at the addition rate where either:
  - (i) The FCCU meets 25 ppmvd SO<sub>2</sub> at 0% O<sub>2</sub> on a 365-day rolling average, in which case COPC will agree to accept a limit of 25 ppmvd SO<sub>2</sub> at 0% O<sub>2</sub> on a 365-day rolling average basis at the conclusion of the demonstration period;
  - (ii) Incremental Pickup Factor <2.0 lb SO<sub>2</sub>/lb additive; or
  - (iii) FCCU is operating at 10.0% Weight % SO<sub>2</sub> Reducing Catalyst Additive.

If an additive limits the processing rate or the conversion capability in a manner that cannot be reasonably compensated for by adjustment of other parameters, then the additive level will be reduced to a level at which the additive no longer causes such effects.

#### SO<sub>2</sub> Reducing Catalyst Additives – Demonstration Period and Report 65.

- By no later than dates set forth in the table in Paragraph 65(b), COPC will (a) commence and complete a demonstration of the EPA-approved SO<sub>2</sub> Reducing Catalyst Additive at the optimized addition rates that COPC proposes unless EPA proposes different optimized addition rates. Delays by EPA in approving the optimized addition rate may result in extensions of the demonstration period and extensions of relevant deadlines as agreed by the parties.
- By no later than the following dates, COPC will report to EPA and the Applicable (b) Co-Plaintiff the results of the demonstrations ("SO<sub>2</sub> Additive Demonstration Report"). The SO<sub>2</sub> Additive Demonstration Report will include, at a minimum, the SO<sub>2</sub> and oxygen CEMS data recorded during the demonstration period and all baseline data on a daily average basis for the demonstration period.

<u>FCCU</u>	<u>Demonstration Start</u>	<u>Demonstration End</u>	Report Due
LAR Wilmington	6/30/09	12/31/10	3/1/11
Sweeny 27	3/31/08	9/30/09	11/30/09

During the demonstration period, COPC will both physically add SO<sub>2</sub> Reducing (c) Catalyst Additive and operate each FCCU, CO Boiler (where applicable) and FCCU feed hydrotreaters (where applicable) in a manner that minimizes SO<sub>2</sub> emissions to the extent practicable without interfering with conversion or processing rates.

\* \* \* \*

67. COPC may notify EPA at any time prior to the following dates of COPC's agreement to comply with SO<sub>2</sub> emission limits of 25 ppmvd on a 365-day rolling average basis and 50 ppmvd on a 7-day rolling average basis, at 0% oxygen, effective on the following dates:

<u>FCCU</u>	<u>Date</u>
LAR Wilmington	3/1/11
Sweeny 27	11/30/09

If COPC makes such a notification, Paragraphs 61 - 66 will no longer apply for the affected FCCU(s) after the date of the notification.

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- At any time during the SO<sub>2</sub> Reducing Catalyst Additive Demonstration Period for the LAR Wilmington and Sweeny 27, COPC may propose for EPA approval to end the Demonstration Period early and propose a short-term (7-day rolling average) and a long-term (365-day rolling average) concentration based limit (ppmvd), each at 0% oxygen, for SO<sub>2</sub> emissions from an FCCU. COPC may also propose alternative limits to be applicable during Hydrotreater Outages or other alternate operating scenarios. If EPA approves the proposed limits, then COPC shall immediately begin complying with the proposed limits and the SO<sub>2</sub> Reducing Catalyst Additive Demonstration Period shall end and the requirements of Paragraphs 61-66 shall no longer apply for that FCCU. Unless and until EPA approves the proposed limits, COPC shall continue to add SO<sub>2</sub> reducing additive at the optimized rate for the remainder of the demonstration period, and Paragraphs 61-66 shall remain in effect.
- Establishing Final SO<sub>2</sub> Emission Limits at the LAR Wilmington FCCU and Sweeny
  FCCU 27. Except where COPC has notified EPA of its intent to comply with SO<sub>2</sub> emission
  limits of 25 ppmvd on a 365-day rolling average basis and 50 ppmvd on a 7-day rolling average
  basis, at 0% oxygen, COPC will propose, in each SO<sub>2</sub> Additive Demonstration Report, final
  7-day rolling average and 365-day rolling average concentration-based (ppmvd) SO<sub>2</sub> emission
  limits, at 0% oxygen, for the LAR Wilmington FCCU and Sweeny FCCU 27. COPC may
  propose alternative emissions limits to be applicable during Hydrotreater Outages, startup of the
  FCCU, shutdown of the FCCU, or other alternative operating scenarios. COPC will comply with
  the emission limits it proposes for each FCCU beginning immediately upon submission of the
  applicable report for that FCCU. COPC will continue to comply with these limits unless and
  until COPC is required to comply with the emissions limits set by EPA pursuant to Paragraphs

- 69 70 below. Upon request by EPA, COPC will submit any additional, available data that EPA determines it needs to evaluate the demonstration.
- 69. EPA will use the data collected about each FCCU during the baseline period, the optimization period, and the demonstration period, as well as all other available and relevant information, to establish limits for SO<sub>2</sub> emissions for the LAR Wilmington FCCU and for Sweeny FCCU 27. EPA will establish a 7-day rolling average and a 365-day rolling average concentration-based (ppmvd) SO<sub>2</sub> emission limits at 0% oxygen. EPA will determine the limits based on: (i) the level of performance during the baseline, optimization, and demonstration periods; (ii) a reasonable certainty of compliance; and (iii) any other available and relevant information.

\* \* \* \*

74. Hydrotreater Outages. For the following FCCUs, by the following dates, COPC will submit to EPA for approval, with a copy to the Applicable Co-Plaintiff, a plan for the operation of the FCCUs (including associated air pollution control equipment) during Hydrotreater Outages in a way that minimizes emissions as much as practicable.

FCCU	<u>Date</u>
LAR Wilmington FCCU	3/31/05
Sweeny FCCU 3	6/30/06
Sweeny FCCU 27	6/30/06

The plan will, at a minimum, consider the use of low sulfur feed, storage of hydrotreated feed, and an increase in additive addition rate. The short-term SO<sub>2</sub> emission limits established pursuant to this Consent Decree at the LAR Wilmington FCCU and Sweeny FCCU 27 will not apply during periods of FCCU feed Hydrotreater Outages provided that COPC is in compliance with the plan and is maintaining and operating its FCCUs in a manner consistent with good air pollution control practices. The short-term NO<sub>x</sub> emission limits established pursuant to this

Consent Decree at the LAR Wilmington FCCU and Sweeny FCCU 3 will not apply during periods of FCCU feed Hydrotreater Outages provided that COPC is in compliance with the plan and is maintaining and operating its FCCUs in a manner consistent with good air pollution control practices. COPC will comply with the approved plan at all times, including periods of startup, shutdown, and Malfunction of the hydrotreater. In addition, in the event that COPC asserts that the basis for a specific Hydrotreater Outage is a shutdown (where no catalyst changeout occurs) required by ASME pressure vessel requirements or applicable state boiler requirements, COPC will submit a report to EPA and the Applicable Co-Plaintiff that identifies the relevant requirements and justifies COPC's decision to implement the shutdown during the selected time period.

At such time as COPC accepts an emission limit of 0.5 pound PM per 1000 pounds of 75. coke burned on a 3-hour average basis for both Borger FCCUs 29 and 40 as determined by the testing protocol in Paragraph 83, COPC may submit and utilize hydrotreater outage plans for Borger FCCUs 29 and 40 consistent with the requirements of Paragraph 74. The Hydrotreater Outage Plans will be submitted to EPA for approval at the same time COPC submits the PM performance results for Borger FCCUs 29 and 40.

\* \* \* \*

77. PM Emission Limits for the Bayway, Borger 29, Borger 40, Sweeny 3, Trainer, Wood River 1 and Wood River 2 FCCUs. COPC will continue to operate the wet gas scrubber at the Bayway Refinery and will design the wet gas scrubbers at the Borger 29, Borger 40, Sweeny 3, Trainer, Wood River 1 and Wood River 2 FCCUs to achieve an emission limit of 0.5 pound PM per 1000 pounds of coke burned on a 3-hour average basis. To the extent that, under Paragraph 58 of this Consent Decree, COPC does not install wet gas scrubbers at Borger FCCUs 29 and 40, this requirement will not apply. By no later than the following dates for the following FCCUs, COPC will comply with an emission limit of 0.5 pound PM per 1000 pounds of coke burned on a 3-hour average basis determined by the testing protocol in Paragraph 83:

Bayway	Date of Lodging
Borger 29 (if applicable)	December 31, 2006
Borger 40 (if applicable)	December 31, 2015
Sweeny 3	December 31, 2009
Trainer	December 31, 2006
Wood River 1	December 31, 2008
Wood River 2	December 31, 2012

- 139. <u>Compliance Methods for Flaring Devices</u>. For each Flaring Device, COPC will elect to use one or any combination of following compliance methods:
  - (a) Operate and maintain a flare gas recovery system to control continuous or routine combustion in the Flaring Device. Use of a flare gas recovery system on a flare obviates the need to continuously monitor and maintain records of hydrogen sulfide in the gas as otherwise required by 40 C.F.R. §§ 60.105(a)(4) and 60.7;
  - (b) Operate the Flaring Device as a fuel gas combustion device and comply with NSPS monitoring requirements by use of a CEMS pursuant to 40 C.F.R. § 60.105(a)(4) or with a predictive monitoring system approved by EPA as an alternative monitoring system pursuant to 40 C.F.R. § 60.13(i);
  - (c) Eliminate the routes of continuous or intermittent, routinely-generated fuel gases to a Flaring Device and operate the Flaring Device such that it receives only process upset gases, fuel gas released as a result of relief valve leakage or gases released due to other emergency malfunctions;
  - (d) Eliminate to the extent practicable routes of continuous or intermittent, routinely-generated fuel gases to a Flaring Device and monitor the Flaring Device by use of a CEMS and a flow meter; provided, however, that this compliance method may not be used unless COPC: (i) demonstrates to EPA that the Flaring Device in question emits less than 500 pounds per day of SO<sub>2</sub> under normal conditions; (ii) secures EPA approval for use of this method as the selected

- compliance method; and (iii) uses this compliance method for five or fewer of the Flaring Devices listed in Appendix A; or
- (e) (i) Demonstrate that the Flaring Device combusts only vapors that are collected and combusted to comply with the wastewater provisions in 40 C.F.R. § 60.692, 40 C.F.R. §§ 61.343 through 61.348, or 40 C.F.R. § 63.647, or the marine tank vessel loading provisions in 40 C.F.R. § 63.562 or 40 C.F.R. § 63.651; and (ii) comply with the monitoring requirements in 40 C.F.R. Subpart J in effect for that usage of the Flaring Device at the time of acceptance of NSPS applicability.

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143. By no later than December 31, 2011, COPC will certify compliance to EPA and the Applicable Co-Plaintiff with one or more of the compliance methods in Paragraph 139 and will accept NSPS applicability for all of the Flaring Devices in Appendix A.

\* \* \* \*

- 179A. Implementation of Actions Necessary to Correct Non-Compliance: Control Measures for Locations Identified in Appendix I. By no later than the dates set forth in Appendix I, COPC shall install controls consistent with the requirements of 40 CFR Part 61, Subpart FF ("BWON") on the locations identified in Appendix I, "BWON Compliance Schedule for the Ferndale Refinery," in order to achieve compliance with the 2.0 Mg option at the Ferndale Refinery. All controls will be installed by no later than December 31, 2008.
- Implementation of Actions Necessary to Correct Non-Compliance at the Ferndale 179B. Refinery: Control Measures for the Phenolic and Oily Water Lift Station.
- Short-term measures. By no later than December 20, 2007, COPC will apply a polyurea (a) coating to the cover, hatches, and all other sources of openings to the atmosphere on the phenolic and oily water lift station. From December 20, 2007, until the completion of the long-term measures in Paragraph 179B(b), COPC will reapply the polyurea coating or an equivalent or superior sealant as soon as practicable but no later than fifteen days after breaking any hatch or electrical seal on the lift station. In the period between the

breaking of any hatch seal and the reapplication of a sealant, COPC will undertake good faith efforts to minimize emissions.

# (b) <u>Long-term measures</u>.

- (i) By no later than November 30, 2008, COPC will complete the replacement or the redesign of the phenolic and oily water lift station at the Ferndale Refinery, including the closed vent and vapor recovery system for the lift station. The replacement or redesign will be designed to achieve no detectable emissions as defined by 40 C.F.R. 61.341 from the lift station, including no detectable emissions from the interfaces between the hatches and the cover, the interface between the cover and the vault, and all penetrations of the cover or hatches. To the extent that COPC proposes to use a carbon adsorption system as its vapor recovery system, COPC will comply with the installation requirements of Paragraph 186, the "breakthrough" definition of Paragraph 187, the monitoring requirements of Paragraph 188, and the replacement requirements of Paragraph 189.
- (ii) By no later than March 14, 2008, COPC will electronically submit to EPA and NWCAA for review and comment a proposed redesign or replacement design for the phenolic and oily water lift station. The proposed design will include information regarding the closed vent and vapor recovery system that COPC proposes to use to control emissions from the lift station. To the extent that COPC proposes to use a carbon adsorption system, COPC will include the design replacement interval for the proposed carbon canisters. If all aspects of the proposed design cannot be electronically submitted, COPC will submit the proposal by overnight mail. By no later than 10 business days after receipt of the

full design proposal, EPA and NWCAA will provide comments, if any. COPC may proceed on design implementation if COPC has not received any comments from EPA or NWCAA within 10 business days after their receipt of the proposed design. Notwithstanding the opportunity for review and comment by EPA and NWCAA on the proposed design, COPC will remain solely responsible for complying with the requirements of Paragraph 179B(b)(i) and the BWON at the lift station. EPA and NWCAA do not warrant or aver in any manner that their review and comment, if any, on the proposed design will result in compliance

with the requirements of Paragraph 179B(b)(i) or the BWON at the lift station.

# (c) Monitoring.

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- (i) Quarterly Monitoring During the Period of Short-Term Measures. Commencing in the first quarter of 2008 and continuing through completion of the long-term measures identified in Paragraph 179B(b), COPC shall utilize 40 C.F.R. Part 60, Appendix A, Method 21 to monitor for leaks from the phenolic and oily water lift station one time per quarter, including one time in the partial quarter of October/November 2008. Monitoring will not be undertaken during any time period when the lift station is bypassed and/or isolated. COPC shall repair all leaks consistent with all applicable regulatory requirements.
- (ii) Additional Monitoring During the Period of the Short-Term Measures. In addition to the monitoring required by Paragraph 179B(c)(i), by no later than five (5) days after completing either a reapplication of a sealant to any parts of the phenolic and oily water lift station or a repair occasioned by the monitoring in Paragraph 179B(c)(i), COPC shall utilize 40 C.F.R. Part 60, Appendix A, Method

21 to monitor for leaks. COPC shall repair all leaks consistent with all applicable regulatory requirements.

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- (iii) Monitoring after Completion of Long-Term Measures. By no later than fifteen (15) days after completing the long-term measures identified in Paragraph 179B(b), COPC will utilize 40 C.F.R. Part 60, Appendix A, Method 21 to monitor for leaks. Leak monitoring will continue on a quarterly basis commencing in the first quarter of 2009 until eight (8) quarters have passed. COPC will use its best efforts to monitor the lift station over the range of normal operating conditions for the eight (8) monitoring quarters. Upon detecting any leaks, COPC will repair the leaks consistent with all applicable regulatory requirements.
- (iv) <u>Leak Trend Analysis</u>. At any time that COPC detects a leak during the monitoring events in Paragraph 179B(c)(iii), COPC will log the location and concentration of each leak to enable itself to evaluate whether any leak trends are occurring. If COPC perceives any trends in the location or concentration of the leaks noted, COPC will undertake actions to investigate and correct the cause(s) identified as expeditiously as practicable.
- (v) 40 C.F.R. Part 60, Appendix A, Method 21 monitoring shall be performed using aToxic Vapor Analyzer with a flame ionization and/or photoionization detector.
- (vi) COPC shall include the results of all monitoring, including the operating conditions (*e.g.*, whether the pumps were on or off; whether the flow was high or low) undertaken pursuant to this Subparagraph 179B(c) in the reports due under Subparagraph 179C(a) of this Consent Decree.

179C. Reports.

- (a) Interim Progress Reports. By no later than April 21, 2008, July 21, 2008, and October 21, 2008, COPC will submit reports to EPA and NWCAA that provide updates on the progress of the installation of the controls required pursuant to Paragraph 179A and 179B(b). With respect to the project required pursuant to Paragraph 179B(b), COPC's reports will include a description of the progress in designing, ordering, procuring, and installing the replacement lift station or the redesigned lift station and the closed vent and vapor recovery system. COPC will provide revised designs and flow diagrams whenever, if ever, there are any differences between the proposal COPC submits pursuant to Paragraph 179B(b)(ii) and the design as COPC is implementing it.
- (b) <u>Annual BWON Report</u>. By no later than April 7, 2008, COPC will submit to EPA and NWCAA the annual report required under 40 C.F.R. Section 61.357(d)(2).
- (c) <u>Final Report</u>. By no later than January 31, 2009, COPC will submit a final report documenting completion of the installation of all controls required by Paragraphs 179A and 179B(b). In that report, COPC shall certify compliance with the BWON.
- (d) <u>Leak Trend Analysis Report</u>. By no later than January 31, 2011, COPC will submit a report describing the leak trends, if any, found pursuant to Paragraph 179B(c)(iv). COPC will identify all corrective measures taken, if any, in response to any leak trends found.

\* \* \* \*

Exception to Implementing Corrective Measures. If COPC can identify the reason(s) in any particular calendar quarter that the quarterly and projected annual calculations result in benzene quantities in excess of those identified in Paragraph 215, and COPC can state that it does not expect that reason or reasons to recur or if COPC has already identified the reason(s) for the benzene quantities in excess of those identified in Paragraph 215 and COPC has

previously submitted a compliance plan but COPC had not yet completed implementation of that plan, then COPC may exclude the benzene quantity attributable to the identified reason(s) from the projected calendar year quantity. If that exclusion results in no potential violation of the Benzene Waste Operation NESHAP, COPC will not be required to implement corrective measures under Paragraph 217, and COPC may exclude the uncontrolled benzene attributable to the identified reason(s) in determining the applicability of Paragraph 218. At any time that COPC proceeds under this Paragraph, COPC will describe how it satisfied the conditions in this Paragraph in the reports due under Section IX of this Decree.

Compliance Assurance Plan. If COPC meets one or more conditions in 217. Paragraph 215 for implementing corrective measures, then by no later than sixty (60) days after the end of the calendar quarter in which one or more of the conditions were met, COPC will submit a compliance assurance plan to EPA for approval, with a copy to the Applicable Co-Plaintiff. In that compliance assurance plan, COPC will identify the cause(s) of the potentially-elevated benzene quantities, all corrective actions that COPC has taken or plans to take to ensure that the cause(s) will not recur, and the schedule of actions that COPC will take to ensure that the subject refinery complies with the Benzene Waste Operations NESHAP for the calendar year. COPC will implement the plan unless and until EPA disapproves. In the event that COPC anticipates that it will not meet a compliance date in its compliance assurance plan, then COPC shall update the plan as soon as practicable to identify the compliance date it anticipates not satisfying, the corrective measures that COPC anticipates will not be timely made and the reasons therefore, and a proposed alternative compliance date.

\* \* \* \*

229. Third-Party Audits. COPC will retain a contractor(s) to perform a third-party audit of the Refinery's LDAR program at least once every four (4) years. The first third-party audit and

report for the Bayway, Ferndale, and Sweeny Refineries will be completed no later than December 31, 2005; the first third-party audit and report for the Alliance, Borger, LAR Carson, Santa Maria, Trainer, and Wood River Refineries will be completed by no later than December 31, 2006; and the first third-party audit and report for the LAR Wilmington and Rodeo Refineries will be completed by no later than April 1, 2007. An additional third-party audit will be completed for the Alliance Refinery no later than December 31, 2007.

- 230. Internal Audits. COPC will conduct internal audits of each Refinery's LDAR program by sending personnel familiar with the LDAR program and its requirements from one or more of COPC's other Refineries or locations to audit another COPC Refinery. COPC will complete an internal LDAR audit by no later than two (2) years from the date of the completion of the third-party audits required in Paragraphs 228 and 229. COPC will perform an internal audit of each Refinery's LDAR program at least once every four (4) years. COPC may elect to retain third-parties to undertake the internal audit, provided that an LDAR audit at each Refinery occurs every two (2) years. The internal audit to be performed at the Alliance Refinery in 2008 shall be performed by a third-party.
- Audit Every Two Years. To ensure that an audit occurs every two (2) years at each 231. Refinery, once a Refinery's initial third-party audit is completed, the remaining third-party and internal audits at that Refinery will be separated by not more than two (2) years. Audits may be performed at any time in the calendar year in which they are due.

255A. By no later than December 31, 2007, COPC will have completed the installation of sleeves on the slotted guidepoles on the following tanks located at the Bayway Refinery: T241, T243, T349, T351, and T352. Commencing on December 31, 2007, these tanks will be subject to NSPS Subpart Kb as affected facilities and will comply with the requirements of

NSPS Subparts A and Kb, including all monitoring, recordkeeping, reporting and operating requirements.

\* \* \* \*

# 268. Controlling Emissions from the API Separator at the Bayway Refinery.

Case 4:05-cv-00258

- (a) By no later than December 1, 2007, COPC will submit to NJDEP, with respect to the Bayway Refinery, revised permit applications necessary to implement a project to control volatile organic compound emissions from (i) the preflumes associated with Channels 3 through 7 of the API separator ("Preflumes"); (ii) Channels 3 through 7 of the API separator ("Channels 3 through 7"); and (iii) the Corrugated Plate Separator ("CPS"). As part of those permit applications, COPC will include a list of all waste streams that are directed to the API Separator and all waste streams that are directed elsewhere, including an identification of the destination of the waste streams that are not directed to the API. In the list of waste streams, COPC will include VOC composition, VOC concentration, and stream flow rates.
- (b) By no later than December 31, 2009, COPC will have completed implementation of the control project required in Subparagraph (a). The equipment installed to meet the requirement of Subparagraph (a) will have a VOC control/removal efficiency of at least 95%. The equipment installed either (i) will cover the currently-existing Preflumes, Channels 3 through 7, and the CPS; or (ii) will replace these structures with a controlled system that is covered or enclosed.
- (c) COPC will spend no less than Eight Million Dollars (\$8,000,000) for the project identified in this Paragraph. It is the intent of the United States, New Jersey and COPC that the Supplemental Environmental Project required by this Paragraph consist of the installation of VOC controls at the structures identified in Subparagraph 268(a). To the extent that COPC

undertakes additional work on the underlying structures themselves (or elsewhere), such additional work falls outside the scope of this SEP.

(d) By no later than thirty (30) days after the entry of this Second Amendment, COPC will submit to EPA and NJDEP a report that identifies the status of the project required under this Paragraph and projects the dates for completing critical project milestones. Thereafter, COPC will comply with the requirements of Paragraphs 277 and 279 for providing progress reports to EPA and NJDEP.

\* \* \* \*

- 272A. Additional Supplemental Environmental Projects Relating to the Ferndale Refinery.
- (a) <u>Lummi Tribe Wood Stove Replacement Project</u>. COPC will implement a Supplemental Environmental Project, the "Lummi Tribe Wood Stove Replacement Project," in accordance with this Subparagraph of this Second Amendment. This SEP shall be completed by no later than June, 30, 2009. This SEP shall consist of the replacement of approximately twenty-five (25) old, fireplaces/wood stoves with propane stoves. The replacements will be provided free of charge to members of the Lummi tribe living on the Lummi Reservation.

  COPC may use a contractor or consultant in planning and implementing this SEP. COPC will spend One-Hundred Thousand Dollars (\$100,000) on this project, and the number of wood stoves replaced will be adjusted upward or downward, as appropriate, so as to limit to \$100,000 the amount that COPC will be required to spend.
- (b) <u>Columbia Valley Wood Stove Replacement Project</u>. COPC will implement a Supplemental Environmental Project, the "Columbia Valley Wood Stove Replacement Project," in accordance with this Subparagraph of this Second Amendment. This SEP shall be completed no later than June 30, 2009. This SEP shall consist of the replacement in residences in Columbia

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Valley, of approximately twenty (20) old, high polluting wood heating appliances with cleaner heating devices. COPC will coordinate with NWCAA in the performance of this SEP. COPC may use a contractor or consultant in planning and implementing this SEP. COPC will spend One-Hundred Thousand Dollars (\$100,000) on this project, and the number of wood stoves replaced will be adjusted upward or downward, as appropriate, so as to limit to \$100,000 the amount that COPC will be required to spend.

(c) For Federal Income Tax purposes, COPC agrees that it will neither capitalize into inventory or basis nor deduct any costs or expenditures incurred in performing the SEPs.

275. COPC is responsible for the satisfactory completion of the SEPs/BEPs required under this Consent Decree in accordance with this Section VIII. Upon completion of the SEPs/BEPS set forth in Paragraphs 268 – 272A, COPC will submit to EPA and the Applicable State/Local Co-Plaintiff a cost report certified as accurate under penalty of perjury by a responsible corporate official. In the cost report for the Bayway VOC Control Project required in Paragraph 268, COPC will identify what costs were for VOC controls and what costs were not. If COPC does not expend the entire projected cost of the applicable SEP/BEP as set forth in this Section VIII, COPC will pay a stipulated penalty equal to the difference between the amount expended as demonstrated in the certified cost report(s) and the projected cost. The stipulated penalty will be paid as provided in Paragraph 377 (Payment of Stipulated Penalties) of the Consent Decree.

\* \* \* \*

286A. Civil Penalty Payment. By no later than thirty (30) days after Entry of this Second Amendment, COPC will pay a civil penalty of Thirty Thousand Dollars (\$30,000) to the United States and Thirty Thousand Dollars (\$30,000) to the Northwest Clean Air Agency in consideration for the resolution of civil liability set forth in Paragraph 412A of this Second

Page 24 of 49

\* \* \* \*

Case 4:05-cv-00258

By no later than thirty (30) days after the Entry of this Second Amendment, COPC will pay a stipulated penalty of Eighty Thousand Five Hundred Dollars (\$80,500) in satisfaction of the claim for stipulated penalties made by the United States and the Commonwealth of Pennsylvania for Acid Gas Flaring that occurred at the Trainer Refinery between April 2, 2007, and May 19, 2007. Fifty percent (50%) of this penalty (\$40,250) shall be paid to the United States and fifty percent (50%) (\$40,250) shall be paid to the Commonwealth of Pennsylvania. Payment shall be made as directed in Paragraph 281 (for the United States) and Paragraph 284 (for the Commonwealth of Pennsylvania).

\* \* \* \*

- 353A. For failure to meet the deadlines set forth in Appendix I for the installation of BWON-compliant controls on the locations at the Ferndale Refinery identified therein: \$10,000 per month or partial month, per location; or an amount equal to 1.2 times the economic benefit of delayed installation, whichever is greater.
- 353B. For failure to meet the deadline set forth in Paragraphs 179B(b), \$1000 per day.
- 353C. For failure to undertake the monitoring and/or repairs required by Paragraph 179B(c): \$100 per location, per day not monitored; \$500 per location, per day not repaired within the regulatory time frames for repairs.
- 353D. For failure to timely submit the reports required by Paragraph 179C, \$1000 per week, per deliverable.

\* \* \* \*

- 412A. Resolution of Liability Regarding Benzene Waste Operations NESHAP Violations at the Ferndale Refinery. Entry of this Second Amendment will resolve all civil liability of COPC to the United States and NWCAA for violations of BWON Requirements at the Ferndale Refinery that were caused either by the uncontrolled status of the locations identified in Appendix I or by leaks at the phenolic and oily water lift station. This resolution of liability covers violations that occurred or may occur on or before December 31, 2008, and is contingent upon COPC completing the installation of the controls required by Paragraphs 179A and 179B by no later than December 31, 2008.
- 413. Resolution of Liability Regarding LDAR Requirements. Entry of this Consent Decree will resolve all civil liability of COPC to the United States and the Co-Plaintiffs for violations of the statutory and regulatory requirements set forth below in Subparagraphs 413(a) through 413(c) that (1) commenced and ceased prior to the Date of Entry of the Consent Decree; and (2) commenced prior to the Date of Entry of the Consent Decree and continued past the Date of Entry, provided that the events giving rise to such post-Entry violations are identified by COPC in its Initial Third-Party Audit Report(s) submitted pursuant to Paragraph 229 or, for the Alliance Refinery only, by the second third-party audit conducted at the Alliance Refinery pursuant to Paragraph 229 and corrected by COPC as required under Paragraph 232:
- LDAR Requirements. For all equipment in light liquid service and gas and/or vapor (a) service, the LDAR requirements of Co-Plaintiffs under state implementation plans adopted pursuant to the Clean Air Act or promulgated by EPA pursuant to Sections 111 and 112 of the Clean Air Act, and codified at 40 C.F.R. Part 60, Subparts VV and GGG; 40 C.F.R. Part 61, Subparts J and V; and 40 C.F.R. Part 63, Subparts F, H, and CC;
- (b) Any applicable, federally-enforceable state or local regulations or permits that implement, adopt, or incorporate the specific regulatory requirements identified in Paragraph 413(a).
- (c) Any applicable state or local regulations or permits enforceable by the Co-Plaintiffs that implement, adopt, or incorporate the specific regulatory requirements identified in Paragraph 413(a).

\* \* \* \*

Case 4:05-cv-00258

417A. Entry of this Second Amendment will resolve all liability of COPC to the United States and the Commonwealth of Pennsylvania for stipulated penalties for Acid Gas Flaring that occurred at the Trainer Refinery between April 2, 2007, and May 19, 2007, and all civil liability of COPC to the United States and the Commonwealth of Pennsylvania for violations of Sections 304 and 313 of the Emergency Planning and Community Right-to-Know Act ("EPCRA"), 42 U.S.C. § 11004, and Section 103(a) of Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA"), 42 U.S.C. § 9603(a), relating to Acid Gas Flaring that occurred at the Trainer Refinery between April 2, 2007, and May 19, 2007.

\* \* \* \*

between the Parties will be deemed submitted on the date they are postmarked and sent by

U.S. Mail, postage pre-paid, except for notices under Section XIV (Force Majeure) and Section

XV (Retention Jurisdiction/Dispute Resolution) which will be sent either by overnight mail or by

certified or registered mail, return receipt requested. Each report, study, notification or other

communication of COPC will be submitted as specified in this Consent Decree, with copies to

EPA Headquarters, the applicable EPA Region, and the Applicable Co-Plaintiff. If the date for

submission of a report, study, notification or other communication falls on a Saturday, Sunday or

legal holiday, the report, study, notification or other communication will be deemed timely if it is

submitted the next business day. Except as otherwise provided herein, all reports, notifications,

certifications, or other communications required or allowed under this Consent Decree to be

submitted or delivered to the United States, EPA, the Co-Plaintiffs, and COPC will be addressed

as follows:

Page 27 of 49

### **As to the United States:**

Chief

**Environmental Enforcement Section** 

Environment and Natural Resources Division

U.S. Department of Justice

Environment and Natural Resources Division

Document 44

Department of Justice

Regular Mail: P.O. Box 7611, Ben Franklin Station, Washington, DC 20044-7611

Express Mail: 601 D. St. NW, Rm. 2121, Washington DC 20004

Reference Case No. 90-5-2-1-06722/1

#### As to EPA:

Director, Air Enforcement Division

Office of Civil Enforcement

U.S. Environmental Protection Agency

Mail Code 2242-A

Regular Mail:1200 Pennsylvania Avenue, N.W.

Ariel Rios Building South

Room 1119

Washington, DC 20460-0001

Express Mail: Use same address but 20004 as zip.

with a hard copy to Director, Air Enforcement Division Office of Regulatory Enforcement c/o Matrix New World Engineering 120 Eagle Rock Ave., Suite 207

East Hanover, NJ 07936-3159

and an electronic copy to csullivan@matrixneworld.com foley.patrick@epa.gov

### **EPA Regions:**

Region 2:

Chief

Air Compliance Branch

US EPA Region 2

Ted Weiss Federal Building

290 Broadway, 21st Floor

New York, New York 10007-1866

# Region 3:

Chief Air Enforcement Branch (3AP12) EPA Region III 1650 Arch Street Philadelphia, PA, 19103

#### Region 5:

Air and Radiation Division U.S. EPA, Region 5 77 West Jackson Blvd. (AE-17J) Chicago, IL 60604 Attn: Compliance Tracker

#### and

Office of Regional Counsel U.S. EPA, Region 5 77 West Jackson Blvd. (C-14J) Chicago, IL 60604

#### Region 6:

#### Chief

Air, Toxics, and Inspections Coordination Branch Environmental Protection Agency, Region 6 1445 Ross Avenue Dallas, Texas 75202-2733

#### Region 9:

Director Air Division Mail Code AIR-1 USEPA Region 9 75 Hawthorne Street San Francisco, CA 94105

### Region 10:

Director, Office of Compliance and Enforcement U.S. Environmental Protection Agency, Region 10 Mail Code: OCE-164 1200 Sixth Avenue, Suite 900 Seattle, WA 98101

# **As to Co-Plaintiffs:**

#### As to Co-Plaintiff the State of Illinois

Maureen Wozniak Assistant Counsel Illinois Environmental Protection Agency 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

and

Manager Compliance and Enforcement Section Illinois Environmental Protection Agency 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

# As to Co-Plaintiff the State of Louisiana, through the Department of Environmental Quality:

Administrator, Enforcement Division Office of Environmental Compliance Louisiana Department of Environmental Quality P.O. Box 4312 Baton Rouge, Louisiana 70821-4312

#### As to Co-Plaintiff the State of New Jersey:

Administrator, Air Compliance & Enforcement New Jersey Department of Environmental Protection Post Office Box 422 401 East State Street Trenton, New Jersey 08625-0422

and

Manager, Northern Air Compliance & Enforcement Office New Jersey Department of Environmental Protection 7 Ridgedale Ave. Cedar Knolls, New Jersey 07927

and

Deputy Attorney General, Section Chief Environmental Enforcement Division of Law P.O. Box 093 25 Market Street Trenton, New Jersey 08625-0093

#### As to Co-Plaintiff the Commonwealth of Pennsylvania

Regional Manager, Air Quality Pennsylvania Department of Environmental Protection 2 East Main St. Norristown, PA 19401

# As to Co-Plaintiff the Northwest Clean Air Agency

Director Northwest Clean Air Agency 1600 South Second St. Mount Vernon, WA 98273-5202

# **As to COPC**:

Dorsey Payne, Program Manager ConocoPhillips Company 1000 South Pine 860-18 South Tower Ponca City, OK 74602-1267 Telephone: (580) 767-6404

Thomas J. Myers, HSE Manager, U.S. Refining, Commercial and Transportation ConocoPhillips Company 600 North Dairy Ashford Room TA3138 Houston, TX 77079

Telephone: (281) 293-4851

Managing Counsel, North American Refining Transportation and Regulatory Group Legal Department ConocoPhillips Company 600 North Dairy Ashford Houston, TX 77079

With a copy to each Applicable Refinery as shown below:

As to Alliance:

Refinery Manager ConocoPhillips Company Alliance Refinery P.O. Box 176 Belle Chasse, LA 70037

# As to Bayway:

Refinery Manager ConocoPhillips Company Bayway Refinery 1400 Park Avenue Linden, NJ 07036

# As to Borger:

Refinery Manager WRB Refining LLC Borger Refinery P. O. Box 271 Borger TX 79008

#### As to Ferndale:

Refinery Manager ConocoPhillips Company Ferndale Refinery PO Box 8 Ferndale, WA 98248

As to the Los Angeles Carson and/or Los Angeles Wilmington Refineries:

Refinery Manager ConocoPhillips Company Los Angeles Refinery (Carson and Wilmington) 1660 W. Anaheim St. Wilmington, CA 90744

As to the Rodeo and Santa Maria Refineries:

Refinery Manager ConocoPhillips Company San Francisco Refinery 1380 San Pablo Ave. Rodeo, CA 94572 As to the Santa Maria Refinery:

Plant Manager ConocoPhillips Company Santa Maria Refinery 2555 Willow Road Arroyo Grande, CA 93420

As to the Sweeny Refinery:

Refinery Manager ConocoPhillips Company Sweeny Refinery P.O. Box 866 Sweeny, TX 77480

As to the Trainer Refinery:

Refinery Manager ConocoPhillips Company Trainer Refinery 4101 Post Road Trainer, PA 19061

As to the Wood River Refinery (including Distilling West)

Refinery Manager WRB Refining LLC Wood River Refinery P.O. Box 76 Roxana, IL 62084

Any party may change either the notice recipient or the address for providing notices to it by serving all other parties with a notice setting forth such new notice recipient or address. In addition, the nature and frequency of reports required by the Consent Decree may be modified by mutual consent of the Parties. The consent of the United States to such modification must be in the form of a written notification from EPA, but need not be filed with the Court to be effective.

SO ORDERED.

Signed on this 11th day of August, 2008.

SIM LAKE

UNITED STATES DISTRICT JUDGE

Consent Decree in the matter of United States et al. v. ConocoPhillips Company, Civil Action No. H-05-0258 (Southern District of Texas).

#### FOR THE UNITED STATES OF AMERICA

June 18, 2008 s/ Ronald J. Tenpas, by permission

**RONALD J.TENPAS** 

**Assistant Attorney General** 

Environment and Natural Resources Division

U.S. Department of Justice Washington, D.C. 20530

June 18, 2008 s/ Annette M. Lang

ANNETTE M. LANG

Trial Attorney

**Environmental Enforcement Section** 

Environment and Natural Resources Division

U.S. Department of Justice

P.O. Box 7611

Ben Franklin Station

Washington, D.C. 20044-7611 Telephone: (202) 514-4213

Facsimile: (202) 616-6584

DONALD J. DEGABRIELLE, JR.

United States Attorney Southern District of Texas

June 18, 2008 s/ Kevin C. Aiman

KEVIN C. AIMAN

**Assistant United States Attorney** 

Southern District of Texas

Texas Bar No. 00797884

Fed. Bar No. 30329

909 Milam, Suite 1500

P.O. Box 61129

Houston, TX 77208

Telephone: (713) 567-9516

Facsimile: (713) 718-3407

Consent Decree in the matter of <u>United States et al. v. ConocoPhillips Company</u>, Civil Action No. H-05-0258 (Southern District of Texas).

#### FOR THE ENVIRONMENTAL PROTECTION AGENCY

4/30/08 Date

WALKER B.SMITH

Director

Office of Civil Enforcement

Office of Enforcement and Compliance Assurance United States Environmental Protection Agency

Ariel Rios Building

1200 Pennsylvania Ave., Mail Code 2201A

Washington, DC 20460

Consent Decree in the matter of <u>United States et al. v. ConocoPhillips Company</u>, Civil Action No. H-05-0258 (Southern District of Texas).

# FOR CO-PLAINTIFF THE PEOPLE OF THE STATE OF ILLINOIS

LISA M. MADIGAN Attorney General State of Illinois

MATTHEW J. DUNN, Chief Environmental Enforcement/Asbestos Litigation Division

4/16/08

BY:

THOMAS DAVIS, Chief Environmental Bureau

Assistant Attorney General

500 S. Second St.

Springfield, IL 62706

(217) 782-9031

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

4/14/08 Date

BY:

Robert A. Messina

Chief Legal Counsel

Illinois Environmental Protection Agency

1021 North Grand Avenue East

P.O. Box 19276

Springfield, IL 62794-9276

(217) 782-5544

Consent Decree in the matter of <u>United States</u> et al. v. ConocoPhillips Company, Civil Action No. H-05-0258 (Southern District of Texas).

PRELIMINARY APPROVAL BY CO-PLAINTIFF, THE STATE OF LOUISIANA, THROUGH THE DEPARTMENT OF ENVIRONMENTAL QUALITY:

Assistant Secretary

Office of Environmental Compliance Louisiana Department of Environmental

Quality

Date

TED R. BROY

Trial Attorney

(La. Bar Roll #20456)

Legal Affairs Division

Louisiana Department of Environmental Quality

P.O. Box 4302

Baton Rouge, Louisiana 70821-4302

(225) 219-3985

## FOR CO-PLAINTIFF STATE OF NEW JERSEY

ANNE MILGRAM ATTORNEY GENERAL OF NEW JERSEY

April 21, 2008

By:

SCOTT B. DUBIN

Deputy Attorney General

New Jersey Department of Law and Public Safety

Division of Law

**RJ Hughes Justice Complex** 

25 Market Street

P.O. Box 093

Trenton, NJ 08625-0093

(609) 633-8713

LISA P. JACKSON COMMISSIONER

NEW JERSEY DEPARTMENT OF

**ENVIRONMENTAL PROTECTION** 

401 East State Street

P.O. Box 402

Trenton, NJ 08625-0402

April 15, 2008 Date

By:

WOLFGARO KACEL Assistant Commissioner

Compliance and Enforcement

401 East State Street

P.O. Box 422

Trenton, NJ 08625

> FOR CO-PLAINTIFF **COMMONWEALTH OF PENNSYLVANIA**

4//8/88 Date

FRÁNCINE CARLINI

Regional Manager, Air Quality

Pennsylvania Department of Environmental

Protection

2 East Main Street

Norristown, PA 19401

(484) 250-5920

FOR CO-PLAINTIFF NORTHWEST CLEAN AIR AGENCY

4/28/08

LAUGHLAN H. CLARK, WSBA # 10996

Zender Thurston P.S.

1700 D St.

P.O. Box 5226

Bellingham, WA 98227

(360) 647-1500

FOR CONOCOPHILLIPS COMPANY

4-25-08

Date

L.M. ZIEMBA

President, U.S. Refining

ConocoPhillips

600 N. Dairy Ashford Houston, Texas 77079

(281) 293-1000



FOR WRB Refining LLC

4-25-08

Date

L. M. Ziemba Vice President

WRB Refining LLC 600 N. Dairy Ashford

Houston, Texas 77079

(281) 293-1000

## APPENDIX A

## LIST OF FLARING DEVICES AT THE COVERED REFINERIES

Refinery Name of Flare

Alliance Low Pressure Flare (coker)

Case 4:05-cv-00258

High Pressure Flare

Marine Vapor Recovery Flare – 406 D-15 Marine Vapor Recovery Flare – 406 D-16

Bayway Poly Flare

CLEU Flare ABW Flare Eastside Flare

Borger East Refinery Flare

West Refinery Flare

ARDS Flare Cat Flare

NGL Non-Corrosive Flare NGL Corrosive Flare Acid Gas Flare Derrick Flare

Ferndale ZTOF

**Emergency Ground Flare** 

LAR Carson East

LAR Carson West

LAR LAR Wilmington North

Wilmington

LAR Wilmington South LAR Wilmington Unicracker

LPG Flare

Rodeo 19C-1

19C-602

Case 4:05-cv-00258

Santa Maria Flare

Sweeny Unit 7 Flare

Units 11/14 Flare Units 7/10D/18 Flare

Units 10abc/12/51 LP Flare Units 10abc/12/68 HP Flare

Units 15/17/19 Flare Expansion LP Flare Expansion HP Flare

Unit 5 Flare Unit 30 Flare VDU/DCU Flare DEA Stripper Flare SW Stripper Flare

Trainer Main Yard Flare

Old Yard Flare Acid Gas Flare SWS Gas Flare

Wood River Alkylation Flare

Aromatics North Flare Aromatics South Flare Distilling West Flare

North Property Ground Flare

Lube (HCNHT) Flare

Distilling Flare

Benzene Loading Flare VOC Flare (and Spare)

## Appendix I Compliance Schedule for the Ferndale Refinery

(See attached pdf file.)

Repair Completion Date	12/20/2006	12/20/2006	12/20/2006	12/20/2006	12/20/2006	10/20/2006	10/20/2006	10/20/2006	10/20/2006	10/20/2006	10/20/2006	10/20/2006	10/20/2006	10/20/2006	10/20/2006	10/20/2006	10/20/2006	12/20/2006	12/20/2006	12/20/2006	12/20/2006	12/20/2006	7/3/2007	7/3/2007	8/8/2007	7/3/2007	7/3/2007	7/3/2007	8/8/2007	1000	7/3/2007	8/8/2007	7/3/2007
Repair Deadline	12/29/2006	12/29/2006	12/29/2006	12/29/2006	12/29/2006	10/31/2006	10/31/2006	10/31/2006	10/31/2006	10/31/2006	10/31/2006	10/31/2006	10/31/2006	10/31/2006	10/31/2006	10/31/2006	10/31/2006	12/29/2006	12/29/2006	12/29/2006	12/29/2006	12/29/2006	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008
Additional Identifying Information		1																															
Category	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Process Drain																				
Unit Name	Crude Unit	FCC Unit	FCC Unit	FCC Unit	FCC Unit	Offplot	Offplot	Offplot	Offplot	Offplot	Offplot	Offplot	Sulfur Recover Unit	Sulfur Recover Unit	Sulfur Recover Unit	Sulfur Recover Unit			FCC Unit	Reformer Unit	Reformer Unit									Alky Unit	Alky Unit		Alky Unit
Location Map#	27-AS-302	27-AS-298	04-BS-104	04-BS-106	04-BS-106	27-AS-186	27-AS-186	27-AS-187	27-AS-200	27-AS-200	27-AS-200	27-AS-173	27-BS-456	27-BS-456	27-BS-458	27-BS-458	27-BS-458	04-BS-106	04-BS-106	27-BS-407	27-BS-407	27-BS-407	17-AS-104	17-BQ-134	27-AS-404	27-AS-405							
Point Number	1	2	က	4	2	9	7	8	6	10	<del>,</del>	12	13	14	15	16	17	18	19	20	21	22	23	24	25	56	27	28	29	30	31	32	33

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Repair Completion Date	8/8/2007	8/8/2007		8/8/2007	7/2/2007		6/14/2007	8/28/2007	8/28/2007	9/27/2007	8/8/2007	8/8/2007	8/8/2007	8/8/2007	2/1/2007	7/3/2007	8/8/2007	8/8/2007	8/8/2007	8/8/2007		6/15/2007		1/10/2008	Drain removed. Field	Inspection revealed that	the drain was plugged	and replaced.					
Repair Deadline	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2008	9/30/2008	9/30/2008	9/30/2008					9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008
Additional Identifying Information																																	
Category	Process Drain				Process Drain																												
Unit Name	Alky Unit	Butamer Unit	Crude Unit	Crude Unit	Crude Unit	FCC Unit	FCC Unit	FCC Unit	FCC Unit	FCC Unit	FCC Unit	FCC Unit	FCC Unit	FCC Unit	FCC Unit	Offplot	Offplot	Offplot	Offplot				Offplot	Offplot	Offplot	Offplot	Offplot	Offplot					
Location Map#	27-AS-405	27-AS-405	27-AS-405	27-AS-405	27-AS-405	27-AS-405	27-AS-404	27-AS-302	27-AS-302	27-AS-302	04-BS-105	04-BS-106	04-BS-106	27-AS-298	27-AS-298	27-AS-303	27-AS-303	27-AS-303	27-AS-303	27-AS-303	22-AS-101	27-AS-144	27-AS-145	27-AS-145				27-AS-147	27-AS-150	27-AS-150	27-AS-150	27-AS-150	27-AS-150
Point Number	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	20	51	52	53	54	55	56	57				28	29	09	61	62	63

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Repair Completion Date			1/10/2008	1/10/2008	1/10/2008	1/10/2008	8/28/2007		1/10/2008	White Print I was a second of the second of		1/10/2008	10/15/2007	6/14/2007	6/14/2007	6/14/2007	6/29/2007	6/29/2007	6/29/2007	8/9/2007	6/29/2007	6/29/2007	8/28/2007	7/3/2007	6/29/2007	6/29/2007	6/29/2007	7/5/2007
Repair Deadline	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2007	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007
Additional Identifying Information																	and the same of th											
Category	Process Drain	Process Drain	Process Drain	Process Drain	Process Drain	Process Drain	Process Drain	Process Drain	Process Drain	Process Drain	Process Drain	Process Drain	Process Drain	Process Drain	Process Drain	Process Drain	Process Drain	Process Drain	Process Drain									
Unit Name	Offplot	Offplot	Offplot	Offplot	Reformer Unit	Reformer Unit	Reformer Unit	Reformer Unit		Reformer Unit																		
Location Map#	27-AS-150	27-AS-159	27-AS-161	27-AS-163	27-AS-163	27-AS-186	27-AS-187	27-AS-190	27-AS-190	27-AS-191	27-AS-191	27-AS-199	27-AS-150	27-BS-407	27-BS-407	27-BS-408	27-BS-408	27-BS-408	27-BS-408	27-BS-408	27-BS-408	27-BS-408	27-BS-408	27-BS-408	27-BS-408	27-BS-408	27-BS-408	27-BS-408
Point Number	64	65	99	29	89	69	70	7.1	72	73	74	75	92	7.2	78	79	80	81	82	83	84	85	98	87	88	89	06	91

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Repair Completion Date	6/29/2007	6/29/2007	8/9/2007	6/14/2007	6/14/2007	6/14/2007	6/14/2007	6/14/2007	6/14/2007	6/14/2007	6/14/2007		- CANADA		8/28/2007	9/26/2007												
Repair	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2007	9/30/2008	9/30/2008	9/30/2008	9/30/2007	9/30/2007	12/31/2008	12/31/2008	12/31/2008	12/31/2008	12/31/2008	12/31/2008	12/31/2008	12/31/2008	12/31/2008	12/31/2008	12/31/2008	12/31/2008
Additional Identifying Information									TOTAL CONTRACTOR OF THE PARTY O							Knock Engine	Laboratory Bldg											
Category	Process Drain	Process Drain	Process Drain	Process Drain	Process Drain	Process Drain	Process Drain	Vented Sewer Line																				
Unit Name	Reformer Unit	Reformer Unit	SZORB Unit	SZORB Unit	SZORB Unit	SZORB Unit	SZORB Unit	SZORB Unit	SZORB Unit	SZORB Unit	SZORB Unit	Treaters Unit	Treaters Unit	Treaters Unit	Waste Water Treatment	Offplot												
Location Map#	27-BS-408	27-BS-408	38-BA-0602	38-BA-0603	38-BA-0603	38-BA-0603	38-BA-0604	38-BA-0605	38-BA-0605	38-BA-0605	38-BA-0605	27-AS-301	27-AS-300	27-AS-301	27-AS-186	9-BA-154	29-AS-136											
Point Number	92	93	94	95	96	97	86	66	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119

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	Repair Completion Date		1/4/2008	1/4/2008	Evaluation determined	that no BWON Material	was entering the basin	and it is at the head of the	sewer system.	Therefore, in BWON	compliance.	7/3/2007	Evaluation determined	that no BWON Material	was entering the basin	and it is at the head of the	sewer system.	Therefore, in BWON	compliance.	12/29/2006	9/13/2007	9/20/2007	9/20/2007	12/20/2006	12/20/2006	12/20/2006
	Repair Deadline	12/31/2008	9/30/2008	9/30/2008							9/30/2008	9/30/2008							9/30/2008	3/1/2007	9/30/2007	9/30/2007	6/30/2007	6/30/2007	6/30/2007	9/30/2007
	Additional Identifying Information	Laboratory Bldg																								
	Category	Vented Sewer Line	Catch Basins	Catch Basins	-						Catch Basins	Catch Basins							Catch Basins	Junction Box	Junction Box	Junction Box	Junction Box	Manhole	Manhole	Manhole
	Unit Name	Offplot	DHT Unit	DHT Unit							Offplot	Reformer Unit							Treaters Unit	Alky Unit	Crude Unit	Reformer Unit	FCC Unit	Offplot	Offplot	Offplot
	Location Map#	29-AS-136	33-BS-09	33-BS-11							27-AS-109	27-BS-408							27-AS-300	27-AS-191	27-AS-299	27-AS-165	27-AS-171	27-AS-167	27-AS-187	27-AS-200
	Point Number	120	121	122							123	124							125	126	127	128	129	130	131	132

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