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21 22	and	Civ. No
23	THE STATE OF MISSISSIPPI,	CONSENT DECREE
24	Plaintiffs,	
25	V.	
26	CHEVRON U.S.A. INC.,	
27	Defendant.	
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# 1

I.

#### **BACKGROUND**

2 WHEREAS, the United States of America ("United States"), on behalf of the A. 3 United States Environmental Protection Agency ("EPA"), will file a Complaint, concurrently 4 with the lodging of this Consent Decree, against Chevron U.S.A. Inc. ("CUSA") for alleged 5 violations of Sections 112(r)(1) and 112(r)(7) of the Clean Air Act ("CAA"), 42 U.S.C. 6 § 7412(r)(1) and 7412(r)(7), Section 103 of the Comprehensive Environmental Response, 7 Compensation and Liability Act ("CERCLA"), 42 U.S.C. § 9603, and Section 304 of the 8 Emergency Planning and Community Right-to-Know Act ("EPCRA"), 42 U.S.C. § 11004, and 9 implementing regulations, at petroleum refineries owned and operated by CUSA located in: 10 Richmond, California ("Richmond Refinery"); El Segundo, California ("El Segundo Refinery"); 11 Pascagoula, Mississippi ("Pascagoula Refinery"); and North Salt Lake City, Utah ("Salt Lake 12 City Refinery") (collectively, "Covered Refineries"), as well as the petroleum refinery formerly 13 owned and operated by CUSA in Kapolei, Hawaii ("Kapolei Refinery"). The State of 14 Mississippi, acting through the Mississippi Commission on Environmental Quality and the 15 Mississippi Department of Environmental Quality (collectively, "the MDEQ") is a co-plaintiff, 16 joining in certain of the allegations regarding the Pascagoula Refinery, pursuant to its authority 17 under Mississippi Air and Water Pollution Control Law, Miss. Code Ann. § 49-17-1, et seq. WHEREAS, the Complaint to be filed by plaintiffs the United States and the 18 B. 19 MDEQ (collectively, "Plaintiffs") against CUSA will allege that: 20 1. CUSA, at the Covered Refineries and the Kapolei Refinery, violated the 21 Chemical Accident Prevention and Planning regulations promulgated under Section 112(r)(7) of 22 the CAA, 42 U.S.C. § 7412(r)(7), codified at 40 C.F.R. Part 68, and referred to as the Risk 23 Management Program ("RMP"), including violations of the following regulations at one or more 24 processes at the refineries listed: 40 C.F.R. §§ 68.12-15 (Richmond Refinery, El Segundo 25 Refinery, Kapolei Refinery, Salt Lake City Refinery); 40 C.F.R. § 68.65 (Richmond Refinery, El 26 Segundo Refinery, Kapolei Refinery, Pascagoula Refinery); 40 C.F.R. § 68.67 (Richmond 27 Refinery, El Segundo Refinery, Kapolei Refinery, Pascagoula Refinery, Salt Lake City 28 Refinery); 40 C.F.R. § 68.69 (Richmond Refinery, El Segundo Refinery, Kapolei Refinery, Salt

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1	Lake City Refinery); 40 C.F.R. § 68.71 (Richmond Refinery, El Segundo Refinery, Salt Lake
2	City Refinery); 40 C.F.R. § 68.73 (Richmond Refinery, El Segundo Refinery, Kapolei Refinery,
3	Salt Lake City Refinery); 40 C.F.R. § 68.75 (Richmond Refinery, El Segundo Refinery, Kapolei
4	Refinery, Salt Lake City Refinery); 40 C.F.R. § 68.77 (El Segundo Refinery, Kapolei Refinery);
5	40 C.F.R. § 68.79 (Richmond Refinery, Kapolei Refinery); 40 C.F.R. § 68.81 (Richmond
6	Refinery); 40 C.F.R. §68.87 (El Segundo Refinery); 40 C.F.R. § 68.95(a) (Richmond Refinery,
7	Kapolei Refinery); 40 C.F.R. § 68.150 (El Segundo Refinery, Pascagoula Refinery); 40 C.F.R. §
8	68.175 (El Segundo Refinery); 40 C.F.R. § 68.195(a) (El Segundo Refinery) and 11 Miss.
9	Admin. Code, Pt. 2, R. 8.2 (Pascagoula Refinery);
10	2. CUSA, at certain units of the Richmond Refinery and the Pascagoula
11	Refinery, failed to meet its obligation to design and maintain a safe facility and, at the
12	Pascagoula Refinery, to identify hazards using appropriate hazard assessment techniques as
13	required by the General Duty Clause of the CAA, 42 U.S.C. § 7412(r)(1);
14	3. CUSA, at the Richmond Refinery, violated Section 103(a) of CERCLA,
15	42 U.S.C. § 9603(a), by failure to timely notify national authorities of an August 2, 2012
16	hydrogen sulfide release; and
17	4. CUSA, at the Richmond Refinery, violated Section 304 of EPCRA, 42
18	U.S.C. § 11004, by failure to notify state and local authorities of that same release.
19	C. WHEREAS, EPA began an investigation at the Richmond Refinery following a
20	loss-of-containment incident and fire at the Richmond Refinery on August 6, 2012.
21	D. WHEREAS, EPA subsequently expanded its investigation to the other Covered
22	Refineries and the Kapolei Refinery, and, based on those investigations, issued: sixty-four (64)
23	Findings of Violation against the Richmond Refinery; thirty (30) Findings of Violation against
24	the Kapolei Refinery; eleven (11) Notice of Inspection Findings and two (2) Areas of Concern
25	against the Salt Lake City Refinery; twenty-four (24) Potential Findings against the El Segundo
26	Refinery; and five (5) Notices of Potential Violations against the Pascagoula Refinery, alleging
27	violations of Section 112(r) of the CAA and implementing regulations at 40 C.F.R. Part 68
28	including, but not limited to, violations of requirements contained in: Section 68.12, General

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Requirements; Section 68.15, Management; Section 68.20, Hazard Assessment – Applicability;
 Section 68.65, Process Safety Information; Section 68.67, Process Hazard Analysis;
 Section 68.69, Operating Procedures; Section 68.71, Training; Section 68.73, Mechanical
 Integrity; Section 68.75, Management of Change; and Section 68.77, Pre-Startup Review.

E. WHEREAS, as a result of its investigation at the Richmond Refinery, the 5 California Department of Industrial Relations, Division of Occupational Safety and Health, an 6 7 agency of the State of California, issued citations and a Notification of Penalty dated January 30, 2013, which contained seventeen (17) citations alleging violations of Title 8, California Code of 8 9 Regulations at the Richmond Refinery including, but not limited to: violations of requirements 10 contained in Section 3203, Injury and Illness Prevention Program; Section 5141, Engineering Controls; Section 5144, Respiratory Protection Program; and Section 5189, Management of 11 12 Change, Mechanical Integrity, Operating Procedures, Process Hazard Analysis, and Process 13 Safety Information (collectively, "Citations").

F. WHEREAS, the State of California, through the California Department of
Industrial Relations, Division of Occupational Safety and Health, has entered into an
administrative settlement with CUSA approved July 20, 2017 resolving all of the violations
alleged in the Citations issued on January 30, 2013, over which that California state agency has
jurisdiction.

G. 19 WHEREAS, CUSA does not admit any liability to the United States, the MDEQ 20 or otherwise arising out of the allegations to be contained in the Complaint. CUSA also makes 21 no admission of fact or law regarding the allegations in EPA's: Revised Summary of Findings 22 issued for the Richmond Refinery, dated January 30, 2014; Notification of Inspection Findings and Areas of Concern issued for the Salt Lake City Refinery, dated May 14, 2015; Investigation 23 24 Report for the El Segundo Refinery, dated November 10, 2015; Notice of General Duty Clause 25 and Risk Management Program Violations for the Pascagoula Refinery, dated October 20, 2016; 26 and Investigation Report for the Kapolei Refinery, dated November 24, 2015. CUSA denies that 27 it violated any of the cited federal or state statutory provisions and regulations and maintains that it has been and remains in compliance with all applicable statutes and regulations. 28

H. WHEREAS, immediately following the August 6, 2012 Richmond Refinery
 incident, CUSA began designing and implementing comprehensive programs to enhance its
 emergency response and mechanical integrity programs.

I. WHEREAS, CUSA has agreed, in the interest of settlement of the violations 4 alleged by the Plaintiffs, to initiate and/or complete enhancements to mechanical integrity and 5 safety processes, and to replace certain existing process piping susceptible to sulfidation 6 corrosion, as set forth herein. Solely for the purpose of settlement, and to further ensure CUSA's 7 compliance with existing requirements, CUSA agrees to satisfy the obligations described below 8 9 in Section VII (Technical Authority Process), Section VIII (Sulfidation Corrosion Inspections), Section IX (Carbon Steel Piping Replacement), Section X (Fired Heater Pilot Study), Section XI 10 (Integrity Operating Windows), Section XII (Fitness-for-Service Training), and Section XIII 11 12 (Emergency Response Training).

J. WHEREAS, CUSA has implemented a Technical Authority Process, described in
more detail in Section VII below, to enhance process safety at the Covered Refineries through
the development of Manufacturing TA Directives specifically designed to prevent fatalities and
High-Consequence Loss-of-Containment Incidents at the Covered Refineries. Through this
process, CUSA has developed Manufacturing TA Directives on several topics, including:

18 a. MFG 205 (Leak Response Protocol Instruction), current version dated
19 June 2015;

b. MFG 210 (Fired Equipment Operation), current version dated May 2016;
c. MFG 325 (Hazard and Operability and Layers of Protection Analysis),
current version dated December 2016;

d. MFG 520 (Damage Mechanism Review), current version dated
August 2015;
e. MFG 525 (Fixed Equipment Asset Strategies), current version dated
September 2018;

27 f. MFG 530 (Fixed Equipment Integrity Threat Recommendation and
28 Resolution), current version dated December 2017; and

1g.MFG 535 (Sulfidation Inspection Project), current version dated2September 2016, initially issued October 2014.

K. WHEREAS, although not required to do so by the CAA or its implementing 3 regulations, CUSA currently implements certain RMP, Program Level 3 requirements [40 C.F.R. 4 § 68.10(d)] on processes at the Covered Refineries that are appropriately assigned as Program 5 Level 1 [40 C.F.R. § 68.10(b)]. In general, CUSA's current practice is to apply the principal 6 requirements included within each general RMP element listed below for Program Level 3 7 processes to substantially all of its Program Level 1 processes at the Covered Refineries: 8 9 Process Hazard Analyses — Prepare process hazard analyses; a. Operating Procedures — Develop and implement written operating 10 b. procedures; 11 12 Management of Change — Establish and implement procedures to c. 13 manage changes to process chemicals, technology, equipment, and procedures; d. 14 Mechanical Integrity — Establish and implement written procedures to 15 maintain the ongoing integrity of process equipment; and 16 e. Incident Investigation — Investigate each incident that resulted in, or 17 could reasonably have resulted in a catastrophic release of a regulated substance. L. WHEREAS, CUSA has no current intention of changing the practice described in 18 Paragraph K; however, in the event CUSA determines that it will discontinue this practice, it will 19 provide EPA and the MDEQ written notice before discontinuing the practice (in whole or in 20 21 part) at the Covered Refineries. CUSA's obligation to provide notice under this provision will 22 end three (3) years after the Effective Date. Other than the obligation to provide notice as set 23 forth in the preceding sentence, this whereas clause does not expand or in any manner alter 24 CUSA's obligations under applicable law. Further, nothing in this whereas clause reflects a 25 determination by EPA as to whether Program Level 1 or Program Level 3 is the appropriate 26 assignment for any particular process at the Covered Refineries. M. 27 WHEREAS, the Parties agree there are significant and tangible benefits achieved by obligating CUSA, through the operation of this Consent Decree, to complete and maintain 28

process safety enhancements at its Covered Refineries as set forth herein. Such benefits include,
 but are not limited to, an enforceable mandate imposed by judicial decree to (a) initiate and/or
 complete these enhancements according to the terms and conditions set forth herein, and
 (b) establish the potential recovery of stipulated penalties in the event CUSA does not adhere to
 the terms and conditions contained in this Consent Decree.

N. WHEREAS, the Parties recognize, and the Court by entering this Consent Decree
finds, that this Consent Decree has been negotiated by the Parties in good faith and will avoid
litigation among the Parties and that this Consent Decree is fair, reasonable and in the public
interest.

O. WHEREAS, the Parties have agreed that the entry of this Consent Decree or any
act performed hereunder is not an admission or evidence of any wrongdoing, fault, omission,
liability, or of the validity of any Party's claims, defenses, or assertions, and is the most
appropriate means of resolving these matters without further litigation.

P. NOW, THEREFORE, before the taking of any testimony, without the
adjudication or admission of any issue of fact or law except as provided in Section II
(Jurisdiction and Venue), and with the consent of the Parties, IT IS HEREBY ORDERED AND
DECREED as follows:

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II.

## JURISDICTION AND VENUE

1. This Court has jurisdiction over the subject matter of this action, pursuant to 19 20 28 U.S.C. §§ 1331, 1345, and 1355, and Sections 112(r)(1) and 112(r)(7) of the CAA, 42 U.S.C. § 7412(r)(1) and 7412(r)(7), Section 103 of CERCLA, 42 U.S.C. § 9603, and Section 304 of 21 22 EPCRA, 42 U.S.C. § 11004, and over the Parties. This Court also has supplemental jurisdiction 23 over state claims pursuant to 28 U.S.C. § 1367. Venue is proper in this District pursuant to 24 Section 113(b) of the CAA, 42 U.S.C. § 7413(b), Section 113(b) of CERCLA, 42 U.S.C. 25 § 9613(b), and Section 326(b)(2) of EPCRA, 42 U.S.C. § 11046(b)(2), 28 U.S.C. §§ 1391(b) and 26 (c), and 28 U.S.C. § 1395(a), because CUSA maintains its principal place of business in this 27 judicial district, and certain of the violations alleged in the Complaint are alleged to have occurred in this judicial district. For purposes of this Consent Decree, or any action to enforce 28

this Consent Decree, CUSA consents to the Court's subject matter jurisdiction and its
 jurisdiction over CUSA, and to venue in this judicial district.

2. For purposes of this Consent Decree, CUSA agrees that the Complaint states
 claims upon which relief may be granted pursuant to Sections 112(r)(1) and 112(r)(7) of the
 CAA, 42 U.S.C. § 7412(r)(1) and 7412(r)(7), Section 103 of CERCLA, 42 U.S.C. § 9603, and
 Section 304 of EPCRA, 42 U.S.C. § 11004.

7 **III.** 

## **APPLICABILITY**

8 3. The provisions of this Consent Decree apply to and are binding upon the United
9 States and the MDEQ, and upon CUSA and any successors, assigns, or other entities or persons
10 otherwise bound by law.

4. CUSA must provide a copy of this Consent Decree to all officers whose duties 11 12 reasonably include compliance with any provision of this Consent Decree. For all employees 13 whose duties reasonably include compliance with any provision of this Consent Decree, as well 14 as for any contractor retained to perform work required under this Consent Decree, CUSA must 15 provide a copy of the portions of this Consent Decree that are applicable to the employee's duties 16 or the contractor's work. After the Effective Date, CUSA must condition any contract it enters 17 into for the performance of work required by this Consent Decree upon performance of the work in conformity with the applicable terms of this Consent Decree. Copies of the applicable 18 provisions of the Consent Decree do not need to be supplied to contractors or vendors that are 19 20 retained to supply materials or equipment to satisfy the requirements of this Consent Decree.

5. In any action to enforce this Consent Decree, CUSA will not raise as a defense the
failure by any of its officers, directors, employees, agents, or contractors to take any actions
necessary to comply with the provisions of this Consent Decree.

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IV.

## **DEFINITIONS**

6. Terms used in this Consent Decree that are defined in the CAA, CERCLA,
EPCRA, or in regulations promulgated pursuant to those statutes will have the meanings
assigned to them in the CAA, CERCLA, EPCRA, or such regulations, unless otherwise provided
in this Consent Decree. The definitions set forth below, by themselves, do not create or impose

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any obligations on any Party. Whenever the terms set forth below are used in this Consent
 Decree, the following definitions will apply:

A. "ASME" means the American Society of Mechanical Engineers, a
professional engineering association that promotes the art, science and practice of
multidisciplinary engineering and allied sciences through continuing education, training and
professional development, development of engineering codes and standards, and other forms of
outreach.

B. "API" means the American Petroleum Institute, a United States national
trade association that represents all aspects of America's oil and natural gas industry. API
committees, with industry participation, generate and update industry codes and standards,
recommended practices, and technical papers to assist the oil and natural gas industry in
improving the efficiency of operations, complying with legislative and regulatory requirements,
safeguarding health and protecting the environment.

C. "Chrome-Alloy" means iron-based piping containing or composed of
either: (a) chrome (Cr)-alloy content of 1<sup>1</sup>/<sub>4</sub>% by weight Cr-alloy or higher; or (b) stainless steel.

D. "Clean Air Act," or "CAA," means the federal law set forth at 42 U.S.C. §
7401, *et seq*.

18 E. "Complaint" means the complaint filed by the United States and the
19 MDEQ in this action.

F. "Completion Report" means: (a) a report that CUSA may, at its discretion, 20 submit certifying to EPA its completion and full implementation of the Consent Decree 21 22 compliance requirements described in the final Paragraph of any of the following Sections: VII, 23 (Paragraph 19), VIII (Paragraph 24), IX (Paragraph 27), X (Paragraph 34), XI (Paragraph 41), 24 XII (Paragraph 47), and/or XIII (Paragraph 52); and (b) the report required to be submitted 25 certifying to EPA CUSA's completion of the SEP pursuant to Section XIV (Paragraph 57). G. 26 "Comprehensive Environmental Response, Compensation and Liability Act" or "CERCLA" means the federal law set forth at 42 U.S.C. § 9601, et. seq. 27 28

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H. "Consent Decree" means this Consent Decree, including all appendices 1 2 attached hereto. I. "Console Operator" means a CUSA employee who monitors and controls 3 plant operations through a distributed control system by, among other things, acknowledging 4 alarms, making set-point changes, and monitoring critical alarm panels which indicate deviations 5 from SOLs. 6 J. "Covered Refineries" means petroleum refineries that CUSA owns and 7 operates located in El Segundo, California; Richmond, California; North Salt Lake City, Utah; 8 9 and Pascagoula, Mississippi. K. "CS" means carbon steel, or steels that do not have alloying elements 10 intentionally added, although there may be small amounts of alloying elements permitted by 11 12 specifications that can affect corrosion resistance, hardness after welding, and toughness. L. "CUSA" means Chevron U.S.A. Inc., a Pennsylvania corporation. 13

M. "Damage Mechanism" means physical and/or chemically induced flaws,
defects, deterioration, or degradation of refinery process equipment caused by exposure to
process conditions identified in API Recommended Practice 571 (2nd ed., April 2011).

N. "Day" means a calendar day unless expressly stated to be a business day.
In computing any period of time under this Consent Decree, where the last day would fall on a
Saturday, Sunday, or federal holiday, the period will run until the close of business on the next
business day.

O. "Effective Date" will have the definition provided in Section XXIV.
P. "El Segundo Refinery" means the petroleum refinery located in El
Segundo, California that CUSA owns and operates.

Q. "Emergency Planning and Community Right-To-Know Act" or "EPCRA"
means the federal law set forth at 42 U.S.C. § 11001, *et. seq*.

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- R. "EPA" means the United States Environmental Protection Agency.
  - 9 CONSENT DECREE

S. "ETC" means Chevron Energy Technology Company (a CUSA division), 1 2 an internal technology provider and technical consultant to CUSA that focuses on the development and delivery of technical services. 3 T. "First Responders" means CUSA personnel designated by CUSA as 4 members of each Covered Refinery's emergency-response and/or incident management teams. 5 U. "Fitness-for-Service" or "FFS" means a methodology whereby a flaw or a 6 damage state in a component is evaluated in order to determine the adequacy of the component 7 for continued operation. 8 V. 9 "High-Consequence Loss-of-Containment Incident" means an unplanned or uncontrolled release of material that, based upon the professional judgment and experience of 10 CUSA SMEs, could have severe consequences on people, property, or the environment 11 (informed by "Tier 1 Process Safety Events" as defined in API Recommended Practice 754 (2nd 12 13 ed., April 2016)). W. 14 "Incident Commander" means CUSA personnel designated by CUSA to 15 lead each Covered Refinery's emergency response and/or incident management teams. X. 16 "Integrity Operating Window" or "IOW" means an established limit for a 17 specific process variable that may affect a Damage Mechanism and the integrity of equipment if the process operation deviates outside the established limit. The four different categories of 18 IOWs referenced in this Consent Decree are: SOL, IOW-1, IOW-2, and IIL. 19 Y. "IOW-1" means an IOW limit set to monitor conditions that could result 20 in rapid degradation of equipment integrity. A deviation outside an established IOW-1 limit will 21 22 trigger: (a) a control-room alarm for measurements that are electronically transmitted to the distributed control system that requires a predetermined operator response; and (b) e-mail alerts 23 24 that are sent automatically to select CUSA personnel. An IOW-1 is based on a high-"Standard" 25 limit as described in API Recommended Practice 584 (1st ed., May 2014). Z. "IOW-2" means an IOW limit set to monitor conditions that could result 26 27 in slower-acting degradation of equipment integrity. A deviation outside an established IOW-2 28

limit will trigger e-mail alerts sent automatically to select CUSA personnel. An IOW-2 is based 1 2 on a "Standard" limit as described in API Recommended Practice 584 (1st ed., May 2014). AA. "IOW Informational Limit" or "IIL" means an IOW set to monitor 3 conditions for which additional technical analysis might be warranted. A deviation from an 4 established IIL will trigger e-mail alerts sent automatically to select CUSA personnel. An IIL is 5 based on an "IOW Informational limit" as described in API Recommended Practice 584 (1st ed., 6 May 2014). 7 BB. "Inspection Isometric Number" means the numeric designation given to a 8 9 CUSA drawing that depicts the orientation and layout of specific sections of Process Piping 10 within a Process Unit. CC. "Kapolei Refinery" means the petroleum refinery formerly owned and 11 12 operated by CUSA in Kapolei, Hawaii. DD. 13 "Manufacturing TA Directive" means documentation, issued by the 14 Technical Authority Council to Covered Refineries, which is specifically designed to prevent 15 fatalities and High-Consequence Loss-of-Containment Incidents and includes standards and 16 instructions. 17 EE. "MDEQ" means the State of Mississippi, acting through the Mississippi Commission on Environmental Quality and the Mississippi Department of Environmental 18 Quality. 19 FF. "Minimum Required Thickness" means the thickness without corrosion 20 allowance for each component of a piping system based on the appropriate design code 21 22 calculations and code allowable stress that consider pressure, mechanical, and structural loadings. This definition is based on API 570, Section 3.1.59 (4th ed., February 2016). 23 24 GG. "Mitigation Plan" means a set of actions to manage the remaining life of 25 Process Piping. HH. 26 "Operational Interest" means all or part of CUSA's right to be the 27 operator (as that term is defined by the CAA) of any Covered Refinery. 28 11

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1	II. "Ownership Interest" means all or part of CUSA's legal or equitable
2	ownership interest (as that term is defined by the CAA) of any Covered Refinery.
3	JJ. "Paragraph" means a portion of this Consent Decree identified by an
4	Arabic numeral.
5	KK. "Party" or "Parties" means the United States, the MDEQ and CUSA,
6	individually or collectively.
7	LL. "Pascagoula Refinery" means the petroleum refinery located in
8	Pascagoula, Mississippi that CUSA owns and operates.
9	MM. "Pilot Study" means the Fired Heater Pilot Study described in Section X.
10	NN. "Pilot Study Controls" means the automated controls described in
11	Paragraph 28.
12	OO. "Pilot Study Report" means the written report required by Paragraph 32.
13	PP. "Piping Component" means a single segment of straight pipe or a single
14	pipe fitting (e.g., elbow, reducer, or tee), separated from adjacent pipe segments and/or fittings
15	by welds and/or flanges. Welds, valves, pump casings, bull plugs, slip-on flanges, socket-weld
16	flanges, and any other component where precise thickness measurements cannot be taken are
17	excluded.
18	QQ. "Plaintiffs" means the United States and the MDEQ.
19	RR. "Process Piping" means piping: (a) used to convey hydrocarbons or
20	fractions thereof at a petroleum refinery from one piece of process equipment to another piece of
21	process equipment; (b) designated "pipe," "piping," or "pipe fitting" in applicable material
22	specifications; and (c) for which CUSA conducts inspections consistent with API 570.
23	SS. "Process Unit" means an individual manufacturing unit within a petroleum
24	refinery where crude oil or crude oil fractions are distilled, refined, or processed through physical
25	(temperature and pressure) and/or chemical processes.
26	TT. "Richmond Refinery" means the petroleum refinery located in Richmond,
27	California that CUSA owns and operates.
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1	UU. "Risk Management Program" or "RMP" means the Chemical Accident
2	Preparedness and Prevention Program described in regulations promulgated at 40 C.F.R. Part 68.
3	VV. "Safe Operating Limit" or "SOL" means an IOW set to monitor conditions
4	that could result in rapid degradation of equipment integrity potentially leading to an imminent
5	loss-of-containment event. A deviation outside an established SOL limit will trigger: (a) a
6	control-room alarm for measurements that are electronically transmitted to the distributed control
7	system that requires a predetermined operator response within a short, specified time frame; and
8	(b) e-mail alerts sent automatically to select CUSA personnel. A SOL is based on a "Critical"
9	limit as described in API Recommended Practice 584 (1st ed., May 2014).
10	WW. "Salt Lake City Refinery" means the petroleum refinery located in North
11	Salt Lake City, Utah that CUSA owns and operates.
12	XX. "Scoping Report" means the report described in Paragraph 31.
13	YY. "Section" means a portion of this Consent Decree identified by a Roman
14	numeral.
15	ZZ. "SME" means Subject Matter Expert, a person who has in-depth
16	knowledge and experience on a specific technical area or subject.
17	AAA. "Technical Authority Council" means the entity described in Paragraph
18	17.a.
19	BBB. "Technical Authority Process" means the process described in Paragraphs
20	16 and 17.
21	CCC. "Turnaround" means a planned total shutdown of a Process Unit or
22	Process Units to perform maintenance including overhaul, repair and testing of Process Piping
23	and equipment. "Turnaround" does not include shutdowns performed solely for the purpose of
24	inspections, catalyst changes, regeneration or other non-maintenance activities.
25	DDD. "United States" means the United States of America, acting on behalf of
26	EPA.
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V.

# CIVIL PENALTY

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7. Within thirty (30) Days after the Effective Date, CUSA will pay the sum of
 \$2,492,750 to the United States, and the sum of \$457,250 to the MDEQ, as a civil penalty,
 together with interest accruing from the date on which the Consent Decree is lodged with the
 Court, at the rate specified in 28 U.S.C. § 1961 as of the date of lodging.

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## Federal Payment Instructions.

CUSA will pay the civil penalty due by FedWire Electronic Funds Transfer 7 a. ("EFT") to the U.S. Department of Justice account, in accordance with instructions provided to 8 9 CUSA by the Financial Litigation Unit ("FLU") of the United States Attorney's Office for the Northern District of California after the Effective Date. The payment instructions provided by 10 the FLU will include a Consolidated Debt Collection System ("CDCS") number, which CUSA 11 12 will use to identify all payments required to be made in accordance with this Consent Decree. 13 The FLU will provide the payment instructions to: 14 Timm A. Miller Senior Counsel-Litigation Management Group 15 Chevron Products Company (a Chevron U.S.A. Inc. division) 6001 Bollinger Canyon Road, Building T-2172 16 San Ramon, California 94583-2324 17 (925) 842-5108 timm.miller@chevron.com 18

on behalf of CUSA. CUSA may change the individual to receive payment instructions on its
behalf by providing written notice of such change to the United States and EPA in accordance

- 21 with Section XXIII (Notices).
- b. At the time of payment, CUSA will send notice that payment has been

23 made: (a) to EPA via e-mail at cinwd\_acctsreceivable@epa.gov or via regular mail at EPA

- 24 Cincinnati Finance Office, 26 W. Martin Luther King Drive, Cincinnati, Ohio 45268; and (b) to
- 25 the United States via e-mail or regular mail in accordance with Section XXIII (Notices). Such
- 26 notice will state that the payment is for the civil penalty owed pursuant to the Consent Decree in
- 27 United States and State of Mississippi vs. Chevron U.S.A. Inc. and will reference the civil action
- 28 number, CDCS Number and Department of Justice case number 90-5-2-1-11576.

9. <u>MDEQ Payment Instructions</u>. CUSA will pay the civil penalty due to the
 MDEQ by check payable to the "Mississippi Department of Environmental Quality." The check
 will reference *United States and State of Mississippi vs. Chevron U.S.A. Inc.* and the civil action
 number. The check will be sent to: Mississippi Department of Environmental Quality, Attn:
 Jennifer Paris, P.O. Box 2339 Jackson, Mississippi 39225.

6 10. CUSA will not deduct any penalties paid under this Consent Decree pursuant to
7 this Section or Section XVI (Stipulated Penalties) in calculating its federal, state or local income
8 tax.

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## VI. <u>GENERAL COMPLIANCE REQUIREMENTS</u>

11. Approval of Completion Reports. After receipt of any Completion Report, 10 EPA, after a reasonable opportunity for review and comment by the MDEQ, will in writing: 11 12 (a) approve the submission; (b) approve part of the submission and disapprove the remainder; or 13 (c) disapprove the submission. For any Completion Report submitted pursuant to this Paragraph, 14 EPA will evaluate the submission pursuant to the criteria set forth in the final Paragraph of the 15 Section for which the Completion Report is being submitted. If EPA disapproves all or part of 16 the submission, it will state its reasons in writing. CUSA will have the right to dispute any 17 disapproval or partial approval pursuant to Section XVIII (Dispute Resolution).

18 12. If a Completion Report is disapproved in whole or in part pursuant to
19 Paragraph 11(b) or (c), CUSA may revise and resubmit the report or disapproved portion thereof,
20 for approval, in accordance with Paragraph 11.

13. If EPA does not respond to a Completion Report as described in Paragraph 11 (a),
 (b), or (c) within ninety (90) Days of receipt, CUSA may treat the absence of a response as
 disapproval of the Completion Report and may invoke the Dispute Resolution process set forth
 in Section XVIII.

25 14. Each Completion Report will include the certification language set forth in26 Paragraph 68.

27 15. <u>Permits</u>. Where any compliance obligation under this Consent Decree requires
28 CUSA to obtain a federal, state, or local permit or approval, CUSA will submit timely and

complete applications and take all other reasonable actions necessary to obtain all such permits 1 2 or approvals. CUSA may seek relief under the provisions of Section XVII (Force Majeure) for any delay in the performance of any such obligation resulting from a failure to obtain, or a delay 3 in obtaining, any permit or approval required to fulfill such obligation, if CUSA has submitted 4 timely and complete applications and has taken all other reasonable lawful actions necessary to 5 obtain all such permits or approvals. 6

# VII.

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### **TECHNICAL AUTHORITY PROCESS – CONSENT DECREE COMPLIANCE** REQUIREMENTS

9 16. CUSA will maintain a Technical Authority Process designed to enhance process 10 safety at the Covered Refineries through the development of Manufacturing TA Directives. 11 CUSA personnel with process safety and operational experience will administer the Technical 12 Authority Process, which will serve as the centralized clearinghouse for the review, analysis and 13 development of Manufacturing TA Directives, based on internal and external sources generated 14 after the Effective Date including, but not limited to: (a) ETC advisories; (b) refining industry 15 standards, recommended practices, and guidance; (c) refining industry best practices; 16 (d) incident(s) at the Covered Refineries; and (e) the Pilot Study Report. Items (a) through 17 (e) are hereinafter collectively referred to as "Advisories." 18 17. The Technical Authority Process will include the following elements: 19 Technical Authority Council. CUSA will create a Technical Authority a. 20 Council that will have the sole authority and discretion to designate which Advisories will be 21 developed into Manufacturing TA Directives, including the scope and implementation methods 22 of each Manufacturing TA Directive and its priority and timing for implementation. 23 b. Development of Manufacturing TA Directives. SMEs will be designated 24 to review Advisories and, in turn, present fatality and/or High-Consequence Loss-of 25 Containment Incident prevention topics to the Technical Authority Council to determine the need 26 for and development of new Manufacturing TA Directives. Topics presented to the Technical 27 Authority Council for consideration for new Manufacturing TA Directives will be maintained in 28 a centralized database.

1	(1) All affected employees at the Covered Refineries will have
2	reasonable access to all Manufacturing TA Directives via electronic means.
3	(2) Manufacturing TA Directives issued on or after the Effective Date
4	will include, at a minimum, the following elements:
5	(a) <u>Continuous Improvement</u> : Within five (5) years after
6	issuing a Manufacturing TA Directive, the Technical Authority Council will review and revise
7	the Manufacturing TA Directive, as necessary, with the goal of keeping the Manufacturing TA
8	Directive current, relevant and effective, including the consideration of developments associated
9	with the topic addressed by the Manufacturing TA Directive.
10	(b) <u>Verification and Validation</u> : For project-based
11	Manufacturing TA Directives, verification and validation will be conducted both during and at
12	the end of the project to verify proper implementation. For process-based Manufacturing TA
13	Directives, verification and validation will be conducted to verify the proper implementation of
14	the ongoing process.
15	(c) <u>Implementation Schedule:</u> Each Manufacturing TA
16	Directive will include an effective date, and project-based Manufacturing TA Directives will be
17	accompanied by an implementation deadline for the work described in the Manufacturing TA
18	Directive.
19	c. <u>Implementation of Manufacturing TA Directives</u> . If the Technical
20	Authority Council approves the topic for the development of a new Manufacturing TA Directive,
21	a new Manufacturing TA Directive will be drafted. After the Technical Authority Council
22	reviews and approves the content of the draft, a final Manufacturing TA Directive will be issued
23	and each Covered Refinery will be responsible for implementation. Where appropriate, the
24	Technical Authority Council will request input from SMEs in the development of the new
25	Manufacturing TA Directive.
26	d. <u>Written Approvals for Deviations</u> . Any substantive deviation from a
27	Manufacturing TA Directive including, but not limited to, any implementation deadlines set by
28	the Technical Authority Council, must be approved in writing by the senior CUSA manager with
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1	responsibility over the operation of all of the Covered Refineries (currently the "President of
2	CUSA Manufacturing"), or his or her delegate.
3	e. <u>Tracking and Implementation Review</u> . CUSA will track the status of
4	implementation of the new Manufacturing TA Directive.
5	f. <u>Reporting of Modifications of Manufacturing TA Directives</u> . CUSA will
6	not remove any of the following Manufacturing TA Directives without sixty (60) Days prior
7	written notification to EPA, and CUSA will provide notice to EPA within thirty (30) Days of any
8	substantive modification requiring review and approval by the Technical Authority Council of
9	any of the following Manufacturing TA Directives:
10	(1) MFG 205 (Leak Response Protocol Instruction), current version
11	dated June 2015;
12	(2) MFG 210 (Fired Equipment Operation), current version dated May
13	2016;
14	(3) MFG 325 (Hazard and Operability and Layers of Protection
15	Analysis), current version dated December 2016;
16	(4) MFG 520 (Damage Mechanism Review), current version dated
17	August 2015;
18	(5) MFG 525 (Fixed Equipment Asset Strategies), current version
19	dated September 2018;
20	(6) MFG 530 (Fixed Equipment Integrity Threat Recommendation and
21	Resolution), current version dated December 2017; and
22	(7) MFG 535 (Sulfidation Inspection Project), current version dated
23	September 2016.
24	18. CUSA will provide EPA with progress reports describing the functioning of the
25	Technical Authority Process by providing information which summarizes the following:
26	(a) topics considered by the Technical Authority Council that are maintained in a centralized
27	database as set forth above in Paragraph 17.b; (b) Manufacturing TA Directives developed in the
28	Technical Authority Process; and (c) the status of implementation of the Manufacturing TA
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Directives. The progress reports will be submitted to EPA as specified in Section XV (Reporting 1 2 Requirements), and on the form attached as Appendix A. Such reports will be provided to EPA pursuant to Section XV on an annual basis. 3

- 19. Compliance with the requirements of this Technical Authority Process term 4 (Paragraphs 16-17) will be complete when CUSA has provided progress reports as set forth in 5 Paragraph 18 on five (5) occasions, over a five (5) year time period beginning on the Effective 6 Date, after which CUSA may submit a Completion Report pursuant to Paragraphs 11-14 of this 7 Consent Decree. 8
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### VIII. SULFIDATION CORROSION INSPECTIONS - CONSENT DECREE **COMPLIANCE REQUIREMENTS**

11 20. No later than December 31, 2025, CUSA must complete a one-time thickness 12 measurement of CS Piping Components in CS Process Piping potentially susceptible to 13 sulfidation corrosion identified by the Inspection Isometric Numbers referenced in Appendix B 14 (hereinafter referred to as "Sulfidation Corrosion Inspections"). The CS Piping Components are 15 CS Process Piping CUSA identified as operating at 450° Fahrenheit or greater and containing 16 process material with a sulfur concentration of 1 part per million or greater. As of January 1, 17 2018, approximately 90% of the Sulfidation Corrosion Inspections have been completed. 18 21. For each Covered Refinery, CUSA must submit to EPA, in accordance with the 19 reporting requirements contained in Section XV and in the form attached as Appendix B, the 20 date the inspection of the last CS Piping Component identified within the Inspection Isometric 21 Number referenced in Appendix B was completed. 22 22. With respect to the Sulfidation Corrosion Inspections set forth above, each 23 Covered Refinery must: 24 Identify, using CUSA's standard processes for making such a. 25 determinations, CS Piping Components inspected pursuant to Paragraph 20 that, after the 26 Effective Date, are at or below Minimum Required Thickness, or predicted to be at or below 27 Minimum Required Thickness before the next Turnaround for that Process Unit that is scheduled 28 to take place following the date of the Sulfidation Corrosion Inspection;

b. For any CS Piping Component identified pursuant to Paragraph 22.a, 1 2 CUSA SMEs will develop and implement a Mitigation Plan for the CS Piping Component; and c. Document the implementation of the Mitigation Plan developed pursuant 3 to Paragraph 22.b through existing refinery work procedures and refinery databases. 4 d. During the course of conducting the Sulfidation Corrosion Inspections, 5 issues related to the physical characteristics of the inspected CS Piping Components may be 6 discovered. Such inspection findings may prompt a response based on the engineering judgment 7 of CUSA SMEs, including (a) conducting follow-up inspection(s) or analysis; (b) adding 8 9 corrosion monitoring locations into the appropriate databases at the Covered Refineries; 10 (c) adjusting inspection frequencies in the appropriate databases at the Covered Refineries; (d) implementing temporary mitigation measures (e.g., clamps); and/or (e) replacing the CS 11 12 Piping Component. These responses to inspection findings have been or will be tracked to 13 completion by each Covered Refinery pursuant to (a) relevant Manufacturing TA Directives, for 14 example, MFG 530 (Fixed Equipment Integrity Threat Recommendation and Resolution) and 15 MFG 535 (Sulfidation Inspection Project), as they became applicable, and/or (b) refinery work 16 processes. 17 23. Other than the information set forth in Paragraph 21 above, any other information contained in this Sulfidation Corrosion Inspections term (Paragraphs 20-22) will not be subject 18 to the reporting requirements contained in Section XV. 19 24. 20 Compliance with the requirements of this Sulfidation Corrosion Inspection term (Paragraphs 20-22) will be complete when CUSA has: (a) completed the one-time thickness 21 22 measurements of CS Piping Components required by Paragraph 20; (b) identified CS Piping 23 Components that are at or below Minimum Required Thickness required by Paragraph 22.a; 24 (c) developed and implemented Mitigation Plans as required by Paragraph 22.b; and 25 (d) documented the implementation of Mitigation Plans as required by Paragraph 22.c. After 26 completion of the tasks enumerated in Paragraph 24(a)-(d) above, CUSA may submit a 27 Completion Report pursuant to Paragraphs 11-14 of this Consent Decree. 28

### IX. <u>CARBON STEEL PIPING REPLACEMENT – CONSENT DECREE</u> <u>COMPLIANCE REQUIREMENTS</u>

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25. No later than December 31, 2028, CUSA must replace designated CS Process Piping identified in Appendix C by Covered Refinery, Process Unit and Inspection Isometric Number, and which is highlighted in the inspection isometrics referenced in Appendix C, with Chrome-Alloy steel selected by CUSA SMEs. CUSA must replace only the CS Process Piping that is highlighted in the inspection isometrics referenced in Appendix C and is not required to replace any other piping or equipment that may also be depicted.

Paragraph 25 in the form attached as Appendix D, including the date when the CS Process
Piping identified for replacement in each inspection isometric has been completed, and the material selected.

27. Compliance with the requirements of this Carbon Steel Piping Replacement term
(Paragraphs 25-26) will be complete when CUSA has completed the replacement of CS Process
Piping required by Paragraph 25, after which CUSA may submit a Completion Report pursuant
to Paragraphs 11-14 of this Consent Decree.

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# X. <u>FIRED HEATER PILOT STUDY – CONSENT DECREE COMPLIANCE</u> <u>REQUIREMENTS</u>

19 28. CUSA will conduct a Pilot Study of the following automated controls ("Pilot
20 Study Controls") intended to reduce bogging events in fired heaters: (a) low O<sub>2</sub> override to
21 prevent fuel gas increase; and (b) fuel gas controller output rate-of-change limit to prevent large
22 increases of fuel gas.

23 29. In connection with this Pilot Study, CUSA will install not less than five (5) low
24 O<sub>2</sub> overrides, and not less than five (5) fuel gas controller output rate-of-change limits on fired
25 heaters to be selected and identified by CUSA at one or more of the Covered Refineries. CUSA
26 will design, install and configure at least one (1) low O<sub>2</sub> override and one (1) fuel gas controller
27 output rate-of-change limit on a fired heater(s) at the Pascagoula Refinery. Each of the fired
28 heaters to be equipped with Pilot Study Controls as part of this Pilot Study will be located at a

Covered Refinery. However, except as stated in this Paragraph, CUSA will have sole discretion
 in determining which fired heaters will be equipped with which Pilot Study Controls, as well as
 the design and configuration of those controls. Some fired heaters may be equipped with one
 type of Pilot Study Control, while other fired heaters may be equipped with both types of Pilot
 Study Controls referenced above in Paragraph 28.

30. No later than twelve (12) months after the Effective Date, CUSA will commence
the Pilot Study. The duration of the Pilot Study will be at least twelve (12) months, which will
begin upon installation of the last of the Pilot Study Controls to be included in the Pilot Study,
but will not exceed five (5) years.

31. Prior to commencement of the Pilot Study and within six (6) months of the 10 Effective Date, CUSA will provide EPA and the MDEQ with a report which indicates the 11 12 planned scope of the Pilot Study, its anticipated duration, criteria expected to be evaluated as part 13 of the Pilot Study, and the qualifications of the SMEs to be involved ("Scoping Report"). 14 However, CUSA will have sole discretion to change these aspects of the Pilot Study, either 15 before or during the study period, provided that such changes are consistent with the obligations 16 set forth above in Paragraphs 28-30. In the event CUSA determines changes to these aspects of 17 the Pilot Study are warranted, it will provide written notice within thirty (30) Days after such determination to EPA and the MDEQ indicating the changes made to the initial Scoping Report. 18

32. 19 At the conclusion of the Pilot Study, an analysis will be prepared by SMEs 20 selected by CUSA and will be contained in a written report ("Pilot Study Report"). The Pilot 21 Study Report will be provided to EPA and the MDEQ within twelve (12) months after the 22 conclusion of the study period and will include the location of the fired heaters and type(s) of 23 Pilot Study Controls installed on each, the identification (including names, titles, and brief 24 description of qualifications) of SMEs who prepared the Pilot Study Report, an analysis of data 25 collected as part of the Pilot Study, as well as conclusions derived from such analysis. CUSA 26 may, at its sole discretion, identify and include in the Pilot Study Report an analysis of additional 27 fired heaters installed with low O<sub>2</sub> overrides and/or fuel gas controllers at the Covered Refineries. 28

1	33. All documentation provided to EPA and the MDEQ in connection with this
2	Section X including, but not limited to, the Scoping Report and Pilot Study Report, may be
3	submitted as Confidential Business Information under federal law and/or "trade secrets" under
4	state law and, if submitted as such, will be reviewed and handled by EPA subject to 40 C.F.R.
5	Part 2 and by the MDEQ subject to Miss. Code Ann. Section 49-17-39.
6	34. Compliance with the requirements of this Fired Heater Pilot Study term
7	(Paragraphs 28-32) will be complete when CUSA has provided EPA and the MDEQ with the
8	Pilot Study Report described above in Paragraph 32, after which CUSA may submit a
9	Completion Report pursuant to Paragraphs 11-14 of this Consent Decree.
10	XI. <u>INTEGRITY OPERATING WINDOWS (IOW) – CONSENT DECREE</u>
11	COMPLIANCE REQUIREMENTS
12	35. No later than twelve (12) months after the Effective Date, CUSA must establish a
13	written IOW work process for the Covered Refineries. The written IOW work process will
14	describe minimum requirements for establishing and implementing IOWs for Process Units.
15	36. The written IOW work process will be generally based upon API Recommended
16	Practice 584 (1st ed., May 2014).
17	37. The written IOW work process will describe how the following tasks will be
18	performed specific to the Process Units listed in Appendix E:
19	a. Review of design and operational data;
20	b. Identify and select Damage Mechanisms for which IOWs will be
21	considered;
22	c. For the Damage Mechanisms selected pursuant to Paragraph 37.b, identify
23	and select specific chemical and/or physical process variables that affect those Damage
24	Mechanisms and for which IOWs will be developed;
25	d. For each specific chemical and/or physical process variable selected
26	pursuant to Paragraph 37.c, develop an IOW by: (1) determining the upper and/or lower IOW
27	limits for each such process variable; and (2) designating an IOW level (e.g., SOL, IOW-1,
28	IOW-2, or IIL);

For each IOW developed pursuant to Paragraph 37.d: (1) configure that 1 e. 2 IOW on existing monitoring equipment, including software systems, as appropriate; or (2) add additional monitoring if required to support that IOW; 3 f. Develop and install an alert system that communicates deviations outside 4 established IOW limit(s) via automatic e-mails to specified CUSA personnel; 5 To address deviations outside established limit(s) for SOLs: (1) develop g. 6 pre-determined actions to be taken by Console Operators in response to the deviations; and, 7 (2) install audible and/or visual control room alarms for measurements that are electronically 8 9 transmitted to the distributed control system; and Develop and conduct one-time IOW training for Console Operators at 10 h. each Covered Refinery. 11 38. 12 No later than ninety (90) Days after the Effective Date, CUSA will add IOW 13 training referenced above in Paragraph 37.h to the training otherwise required for Console Operators. 14 15 39. In accordance with the reporting requirements contained in Section XV, CUSA 16 will submit to EPA with respect to the Covered Refineries: an update on the progress of its 17 implementation of the IOW work process, in the form set forth in Appendix E. As used in Appendix E, "Stage 1" implementation will include the tasks stated in Paragraphs 37.a-37.d; and 18 "Stage 2" implementation will include the tasks stated in Paragraphs 37.e-37.g. 19 40. After implementation of at least one (1) IOW for each Process Unit set forth in 20 Appendix E, and after the Effective Date, for each Covered Refinery CUSA must maintain 21 22 records of validated deviations (excluding false deviations) outside established limits for SOLs, 23 including the: (a) date and start and end time of the deviation; and (b) SOL deviated from, 24 including numerical alarm set point and minimum or maximum process value during the 25 deviation. This information retention requirement will end upon the termination of this Consent 26 Decree, or one (1) year after EPA approves a Completion Report for this Section XI pursuant to 27 Paragraphs 11-14, whichever is earlier. 28

1	41. Compliance with the requirements of this IOW term (Paragraphs 35-38) will be
2	complete when: (a) the written IOW work process is established, including the development of
3	pre-determined actions to be taken by Console Operators in response to deviations outside
4	established limit(s) for SOLs; (b) an IOW is configured for each Process Unit identified in
5	Appendix E pursuant to Paragraph 37.e; (c) the systems to provide automatic e-mail alerts and
6	alarms pursuant to Paragraphs 37.f and 37.g are operational; (d) one-time training has been
7	completed pursuant to Paragraph 37.h; and (e) CUSA has provided written notice to EPA that
8	the tasks enumerated in Paragraph 41(a)-(d) have been completed at the Covered Refineries.
9	After completion of the tasks enumerated in Paragraph 41(a)-(e) above, but not earlier than
10	twelve (12) months after providing EPA notice pursuant to Paragraph 41(e), CUSA may submit
11	a Completion Report pursuant to Paragraphs 11-14 of this Consent Decree.

12 13

### XII. <u>FITNESS-FOR-SERVICE TRAINING – CONSENT DECREE COMPLIANCE</u> <u>REQUIREMENTS</u>

4 42. No later than twelve (12) months after the Effective Date, CUSA will have in
place a Fitness-For-Service, Level 1 Assessment Training Program ("FFS Training Program")
for the Covered Refineries. Level 1 Assessments are described in API 579-1/ASME FFS-1,
Part 2 (3<sup>rd</sup> ed., June 2016).

43. The FFS Training Program must be based upon API 579-1/ASME FFS-1, Parts 4 18 19 (General Metal Loss), 5 (Local Metal Loss), 6 (Pitting Corrosion), 7 (Hydrogen Blister and 20 Hydrogen Induced Cracking Damage), 9 (Crack-Like Flaws), 12 (Dents, Gouges, and Dent-Gouge Combinations), and 13 (Laminations). The FFS Training Program must be 21 22 designed to enhance proficiency in assessing damage to and evaluating the structural integrity of in-service Process Piping. The FFS Training Program must provide training on processes and 23 24 techniques for assessing identified damage in Process Piping at the Covered Refineries to CUSA 25 personnel responsible for making such Level 1 Assessments, and on the use of software used in 26 completing Level 1 Assessments. The FFS Training Program must include an optional 27 examination to demonstrate proficiency in conducting Level 1 Assessments.

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1	44. CUSA personnel who complete the FFS Training Program are authorized to
2	perform Level 1 Assessments for CUSA Covered Refineries; however, only CUSA personnel
3	who pass the optional examination are authorized to approve such Level 1 Assessments. No
4	later than six (6) months after the Effective Date, CUSA will add to its design engineering
5	onboarding process a document entitled "Fitness-For-Service Level 1 Approver Qualification
6	Process" (or similar) which sets forth the requirement that CUSA personnel approving Level 1
7	Assessments for the Covered Refineries must have passed the optional examination. This
8	Paragraph does not limit third parties from performing and approving Level 1 Assessments at the
9	direction of CUSA personnel who are authorized to approve Level 1 Assessments. The FFS
10	Training Program for the Covered Refineries will clearly instruct participants of the following:
11	Only CUSA personnel who complete the FFS Training Program and pass the optional
12	examination are authorized to approve Level 1 Assessments.
13	45. In accordance with the reporting requirements contained in Section XV, CUSA
14	will submit the following to EPA no later than twelve (12) months after the Effective Date:
15	a. A copy of the training materials developed for the FFS Training Program;
16	b. The date(s) the FFS Training Program was conducted;
17	c. The titles of CUSA Covered Refinery personnel who completed the FFS
18	Training Program, including the Covered Refinery to which they were assigned at the time they
19	completed the FFS Training Program; and
20	d. The titles of CUSA Covered Refinery personnel who take the proficiency
21	examination for conducting Level 1 Assessments on each date of administration.
22	46. The information set forth in Paragraph 45 will be provided on the form attached
23	as Appendix F.
24	47. Compliance with the requirements of this FFS Training Program term (Paragraphs
25	42-45) will be complete upon submission of the information required by Paragraph 45, after
26	which CUSA may submit a Completion Report pursuant to Paragraphs 11-14 of this Consent
27	Decree.
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## XIII. <u>EMERGENCY RESPONSE TRAINING – CONSENT DECREE COMPLIANCE</u> <u>REQUIREMENTS</u>

48. No later than twelve (12) months after the Effective Date, CUSA will complete
emergency response training ("ER Training") at each of the Covered Refineries, which will
consist of two training modules, as follows:

a. <u>Leak-Response Training</u>. This ER Training module will be based on
CUSA's Manufacturing Leak Response Protocol Instruction (MFG 205) and include guidance on
the type of information necessary to (1) evaluate leaks, including the physical and chemical
characteristics of the leaking material, and (2) determine actions to be taken in response to the
evaluation, including whether to shut down, modify or continue operation. This ER Training
module will be provided to CUSA Incident Commanders, CUSA First Responders, CUSA
operations supervisors and CUSA operators at each of the Covered Refineries.

b. <u>Hazardous Materials Incident Command Training</u>. This ER Training
 module will include guidance for setting up incident-command structures, and establishing
 boundary limits and exclusion zones. This ER Training module will be provided to CUSA
 Incident Commanders and CUSA First Responders at each of the Covered Refineries by Texas
 A&M University or a National Fire Protection Association-accredited provider.

49. No later than ninety (90) Days after the Effective Date, CUSA will add leakresponse training referenced above in Paragraph 48.a to the training otherwise required for
CUSA Incident Commanders, CUSA First Responders, CUSA operations supervisors and CUSA
operators at each Covered Refinery. No later than ninety (90) Days after the Effective Date,
CUSA will add hazardous materials incident command training referenced above in Paragraph
48.b to the training otherwise required for CUSA Incident Commanders and CUSA First
Responders at each Covered Refinery.

50. For each Covered Refinery, in accordance with the reporting requirements
contained in Section XV, CUSA will submit to EPA no later than twelve (12) months after the
Effective Date:

a. A copy of the written training materials for each module of the ER
Training Program;

1	b. The date(s) each ER Training module was provided; and
2	c. The titles and employment locations of CUSA personnel who attended
3	each module of the ER Training.
4	51. The information set forth in Paragraphs 50.b and 50.c will be provided on the
5	form attached as Appendix G.
6	52. Compliance with the requirements of this ER Training term (Paragraphs 48-50)
7	will be complete upon submission of the information required by Paragraph 50, after which
8	CUSA may submit a Completion Report pursuant to Paragraphs 11-14 of this Consent Decree.
9	XIV. SUPPLEMENTAL ENVIRONMENTAL PROJECT
10	53. CUSA must implement a Supplemental Environmental Project ("SEP"), Purchase
11	of Emergency Response Equipment, in accordance with all provisions of and the schedule set
12	forth in Appendix H.
13	54. The SEP will provide the emergency response equipment specified in Appendix
14	H to the identified emergency response organizations to assist them in responding to
15	emergencies in the communities where the Covered Refineries and the Kapolei Refinery operate
16	and where chemical processes are undertaken which are regulated by the CAA. CUSA is
17	obligated to expend Ten Million Dollars (\$10,000,000), which includes all administrative costs
18	associated with implementing the SEP, and costs incurred by contractors and other third-parties
19	selected by CUSA to develop, implement, maintain and administer the SEP.
20	55. CUSA is responsible for the satisfactory completion of the SEP in accordance
21	with the requirements of this Consent Decree. "Satisfactory completion" means completing the
22	SEP in accordance with the requirements and schedules set forth in Appendix H. CUSA may
23	use contractors or consultants in planning and implementing the SEP.
24	56. With regard to the SEP, CUSA certifies the truth and accuracy of each of the
25	following:
26	a. All cost information provided to EPA in connection with EPA's approval
27	of the SEP is complete and accurate, and that CUSA in good faith estimates that the cost to
28	implement the SEP is Ten Million Dollars (\$10,000,000);
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1	b. As of the date of executing this Consent Decree, CUSA is not required to
2	perform or develop the SEP by any federal, state, or local law or regulation and is not required to
3	perform or develop the SEP by agreement, grant, or as injunctive relief awarded in any other
4	action in any forum;
5	c. The SEP is not a project that CUSA was planning or intending to
6	construct, perform, or implement other than in settlement of the claims resolved in this Consent
7	Decree;
8	d. CUSA has not received and will not receive credit for the SEP in any other
9	enforcement action;
10	e. CUSA will not receive any reimbursement for any portion of the SEP
11	from any other person; and
12	f. (1) CUSA is not a party to any open federal financial assistance
13	transaction that is funding or could fund the same activity as the SEP described in this Section;
14	and (2) CUSA has inquired of the SEP recipient(s) and/or SEP implementer(s) whether any are a
15	party to an open federal financial assistance transaction that is funding or could fund the same
16	activity as the SEP and has been informed by the recipient(s) and/or the implementer(s) that none
17	are a party to such a transaction. For purposes of these certifications, the term "open federal
18	financial assistance transaction" refers to a grant, cooperative agreement, loan, federally-
19	guaranteed loan guarantee, or other mechanism for providing federal financial assistance whose
20	performance period has not yet expired.
21	57. Within thirty (30) Days after completion of the SEP, CUSA will submit a
22	Completion Report to the United States and MDEQ, in accordance with Section XXIII (Notices).
23	The Completion Report will contain the following information:
24	a. A detailed description of the SEP as implemented;
25	b. A description of any material problems encountered in completing the
26	SEP and the solutions thereto;
27	c. An itemized list of all eligible SEP costs expended;
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- d. Certification that the SEP has been fully implemented pursuant to the
   provisions of this Consent Decree; and
- 3 e. A description of the environmental and public health benefits resulting
  4 from implementation of the SEP.
- 5 6

58. EPA may require information in addition to that described in the preceding Paragraph, in order to evaluate CUSA's Completion Report.

59. After EPA receives the Completion Report, EPA, after a reasonable opportunity 7 for review and comment by the MDEQ, will in writing: (a) approve the submission; (b) approve 8 9 part of the submission and disapprove the remainder; or (c) disapprove the submission. If EPA 10 disapproves all or part of the submission, it will state its reasons in writing. If a Completion Report is disapproved in whole or in part, CUSA may revise and resubmit the report or 11 12 disapproved portion thereof, for approval. If EPA does not respond to a Completion Report 13 within ninety (90) Days of receipt, CUSA may treat the absence of a response as disapproval of 14 the Completion Report and may invoke the Dispute Resolution process set forth in Section XVIII 15 (Dispute Resolution).

16 60. Disputes concerning the satisfactory performance of the SEP will be resolved
17 under Section XVIII (Dispute Resolution).

18 61. Each submission required under this Section must be signed by an authorized
19 representative of CUSA with knowledge of the SEP and must bear the certification language set
20 forth in Paragraph 68.

62. Any public statement, oral or written, in print, film, or other media, made by
CUSA that refers to the SEP must include the following language: "This project was undertaken
in connection with the settlement of an enforcement action, *United States of America and the State of Mississippi v. Chevron U.S.A. Inc.*, taken on behalf of the U.S. Environmental Protection
Agency under the Clean Air Act."

26 63. For federal income tax purposes, CUSA will neither capitalize into inventory or
27 basis nor deduct any costs or expenditures incurred in performing the SEP.

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64. If CUSA's purchase of the emergency response equipment identified in Appendix
 H does not expend the full amount set forth in Paragraph 54, and if EPA determines that the
 amount remaining reasonably could be applied toward the purchase of additional emergency
 response equipment, CUSA will identify, purchase and provide additional emergency response
 equipment to one or more of the emergency response organizations identified in Appendix H.

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### XV. <u>REPORTING REQUIREMENTS</u>

7 65. CUSA will submit the following reports and submittals to EPA and, unless
8 otherwise specified in this Consent Decree, to the MDEQ:

9 a. <u>Annual Reports</u>. Each year, on the anniversary date of the Effective Date, until termination of this Consent Decree pursuant to Section XXVII, CUSA will submit an 10 annual report for the twelve (12) month period ending two (2) months prior to the anniversary of 11 12 the Effective Date, which report will include the components described below. The Parties 13 recognize and acknowledge that the reporting period of the first Annual Report will be ten (10) 14 months. Except as provided in Paragraph 77(b), each Annual Report will include the following 15 components: (a) updated versions of the reporting forms provided in Appendices A, B, D and E; 16 (b) a description of any problems CUSA encounters during the reporting period that are likely to 17 cause a delay in compliance with Section VII (Paragraphs 16-18), Section VIII (Paragraphs 20, 21 and 22.a-22.c), Section IX (Paragraphs 25-26), Section X (Paragraphs 28-32), Section XI 18 19 (Paragraphs 35, 37 and 38), Section XII (Paragraph 42-45), and/or Section XIII (Paragraphs 48-20 50) of this Consent Decree, together with implemented or proposed solutions; and (c) a 21 description of any non-compliance with the requirements of Section VII (Paragraphs 16-18), 22 Section VIII (Paragraphs 20, 21 and 22.a-22.c), Section IX (Paragraphs 25-26), Section X 23 (Paragraphs 28-32), Section XI (Paragraphs 35, 37 and 38), Section XII (Paragraphs 42-45), 24 and/or Section XIII (Paragraphs 48-50) of this Consent Decree identified by CUSA during the 25 reporting period, together with implemented or proposed solutions. 26 b. Reduction of Annual Reporting Requirements. Notwithstanding 27 Paragraph 65.a, CUSA will no longer be required to report the status of any individual settlement 28 term in annual progress reports when the requirements of that individual settlement term within

1	Sections VII-XIV have been completed and a Completion Report has been submitted and
2	approved for that individual settlement term, as specified in the last paragraph of each of
3	Sections VII-XIII and in Paragraph 57 of Section XIV, and in accordance with Paragraphs 11-14.
4	c. <u>One-Time Submittals</u> . The following submittals will have the content and
5	due dates described in the referenced Paragraphs:
6	(1) The Scoping Report for the Fired Heater Pilot Study described in
7	Paragraph 31;
8	(2) The Pilot Study Report described in Paragraph 32;
9	(3) The FFS Training Program materials described in Paragraph 45.a;
10	(4) The ER Training materials described in Paragraph 50.a; and
11	(5) The Completion Report for the Purchase of Emergency Response
12	Equipment SEP described in Paragraph 57.
13	66. CUSA will notify EPA (and, if such threat pertains to the area in or around the
14	Pascagoula Refinery, the MDEQ) whenever: (a) any non-compliance with this Consent
15	Decree may pose an imminent and substantial endangerment to the public health or welfare or
16	the environment; or (b) any other event's impact on CUSA's performance under this Consent
17	Decree may pose an imminent and substantial endangerment to the public health or welfare or
18	the environment. Notice will be oral or by electronic transmission within three (3) Days after
19	CUSA first knew of the non-compliance or event.
20	67. All reports will be submitted to the persons designated in Section XXIII
21	(Notices).
22	68. Each report submitted by CUSA under this Section will be signed by an
23	authorized representative(s) of the submitting Party and include the following certification:
24	I certify under penalty of law that this document and all attachments were
25	prepared under my direction or supervision in accordance with a practice designed to assure that qualified personnel properly gather and evaluate the
26	information submitted. Based on my inquiry of the person or persons responsible for gathering the information, the information submitted is, to the best of my
27	knowledge and belief, true, accurate, and complete. I have no personal
28	knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false
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1	information, including the possibility of fine and imprisonment for knowing violations.
2	69. This certification requirement does not apply to emergency or similar
3	notifications where compliance would be impractical.
4	70. The reporting requirements of this Consent Decree do not relieve CUSA of any
5	reporting obligations required by any federal, state, or local law, regulation, permit, or other
6	requirement.
7	71. Any information provided pursuant to this Consent Decree may be used by the
8	United States in any proceeding to enforce the provisions of this Consent Decree and as
9	otherwise permitted by law.
10	XVI. <u>STIPULATED PENALTIES</u>
11	72. CUSA will be liable for stipulated penalties to the United States, and where the
12	violation is specific to the Pascagoula Refinery, the MDEQ, for violations of the terms of this
13	Consent Decree as specified below, and such penalties will be payable upon demand consistent
14	with Paragraph 79, unless excused under Section XVII (Force Majeure) or as otherwise resolved
15	by Section XVIII (Dispute Resolution). Stipulated Penalties will apply to the failure to perform
16	any obligation referenced below in Paragraphs 73-76, according to all applicable requirements of
17	this Consent Decree and within the specified time schedules established by or approved under
18	this Consent Decree. No stipulated penalties will attach to circumstances involving minor
19	corrections or revisions to data or information previously reported and subject to the Reporting
20	Requirements in Section XV. Minor corrections or revisions include, but are not limited to, the
21	following:
22	a. Corrections or revisions resulting from an ongoing effort to update
23	Inspection Isometrics at the Covered Refineries (for example, redrawing or renumbering
24	Inspection Isometrics depicting piping circuits or equipment);
25	b. Corrections or revisions to dates reported in updated Appendices, provided
26	that both the initial reported date and the corrected or revised date fall within the period for
27	compliance with the Section corresponding to the Appendix in which the dates were reported;
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1	c. Any good faith miscalculation of interest on any payment due under the
2	terms of this Consent Decree; and
3	d. Scrivener's errors or transpositions of digits of data.
4	73. Late Payment of Civil Penalty. If CUSA fails to pay the civil penalty required
5	to be paid under Section V (Civil Penalty) according to the terms and conditions set forth in that
6	Section, CUSA will pay a stipulated penalty of \$2,500 per Day for each Day the payment is late.
7	74. <u>Compliance Milestones</u> .
8	a. The following stipulated penalties will accrue per violation per Day for
9	each violation of the compliance obligations identified in Paragraph 74.b:
10	Penalty Per Violation Per Day Period of Noncompliance
11	\$1,000 1st through 30th Day
12	\$2,000 31st Day through 60th Day
13	\$5,000 61st Day and beyond
14	b. Compliance obligations in this Consent Decree subject to Paragraph 74.a
15	are:
16	(1) Maintain a Technical Authority Process as described in Paragraph
17	16 for five (5) years;
18	(2) Complete the Sulfidation Corrosion Inspections described in
19	Paragraph 20;
20	(3) Replace designated CS Process Piping as described in Paragraph
21	25;
22	(4) Commence a Fired Heater Pilot Study as described in Paragraph
23	30;
24	(5) Complete a Fired Heater Pilot Study as described in Paragraph 32;
25	(6) Establish a written IOW work process for the Covered Refineries
26	as described in Paragraph 35;
27	(7) Maintain IOWs as described in Paragraphs 41(b) and (c) for twelve
28	(12) months after providing notice to EPA as required by Paragraph 41(e);
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1	(8) Develop at	nd conduct one-time IOW training for Console
2	Operators at each Covered Refinery as d	escribed in Paragraph 37.h.;
3	(9) Supplement	at the required training for Console Operators to include
4	IOW training as described in Paragraph 3	38;
5	(10) Commence	e implementation of a FFS Training Program as
6	described in Paragraph 42;	
7	(11) Add to CU	SA's design engineering onboarding process a
8	document entitled "Fitness-For-Service I	Level 1 Approver Qualification Process" which sets
9	forth the requirement that CUSA person	nel approving Level 1 Assessments for the Covered
10	Refineries must have passed the optional	examination described in Paragraph 44;
11	(12) Complete	the ER training at each of the Covered Refineries as
12	described in Paragraph 48; and	
13	(13) Add the le	ak-response training and the hazardous materials
14	incident command training to the approp	riate training requirements as described in Paragraph 49.
15	75. <u>Reporting Requirement</u>	s. The following stipulated penalties will accrue per
16	violation per Day for each violation of th	e reporting requirements of Section XV:
17	Penalty Per Violation Per	Day Period of Noncompliance
18	\$300	1st through 30th Day
19	\$1,000	31st Day and beyond
20	76. <u>SEP Requirements</u> .	
21	a. <u>Failure to Comple</u>	te the SEP. If CUSA fails to satisfactorily complete the
22	SEP by the deadline set forth in Appendi	x H, CUSA must pay stipulated penalties for each Day
23	for which it fails to satisfactorily comple	te the SEP as follows:
24	Penalty Per Violation Per	Day Period of Noncompliance
25	\$500	1st through 30th Day
26	\$1,000	31st through 60th Day
27	\$2,000	61st Day and beyond
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1	b. <u>Failure to Submit the Completion Report Under Paragraph 57</u> . The
2	following stipulated penalties will accrue per Day for each failure to submit the Completion
3	Report in accordance with Section XIV (Paragraph 57):
4	Penalty Per Violation Per Day Period of Noncompliance
5	\$300 1st through 30th Day
6	\$1,000 31st Day and beyond
7	77. <u>Cessation of Certain Obligations Upon Approval of Completion Reports</u> .
8	When a Completion Report has been approved in accordance with Paragraphs 11-14:
9	a. No further demand for payment of stipulated penalties may be made for
10	alleged failures to comply with the requirements of the Section for which the Completion Report
11	has been approved, unless EPA finds that CUSA's Completion Report contained material
12	misstatements or omissions as described in Paragraph 77.c.
13	b. CUSA's reporting obligations associated with the Section for which the
14	Completion Report has been approved will terminate, unless EPA finds material misstatements
15	or omissions as described in Paragraph 77.c.
16	c. If EPA finds that CUSA's Completion Report contained material
17	misstatements or omissions, EPA will so notify CUSA in writing and describe the nature of its
18	concerns. CUSA will have sixty (60) Days to cure such concerns, during which time EPA may
19	not demand stipulated penalties for any non-willful material misstatements or omissions.
20	d. If the Parties are unable to resolve a dispute regarding whether CUSA's
21	Completion Report contained material misstatements or omissions informally, CUSA may
22	invoke the Dispute Resolution process set forth in Section XVIII.
23	e. Scriveners' errors and transpositions of digits of data will not be
24	considered material misstatements or omissions, although CUSA will submit corrections when
25	such errors are discovered.
26	78. Stipulated penalties under this Section will begin to accrue on the Day a violation
27	occurs and will continue to accrue until performance is completed or the violation ceases.
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79. Unless CUSA disputes the demand for stipulated penalties pursuant to the terms 1 2 of Section XVIII (Dispute Resolution), CUSA will pay stipulated penalties to the United States, and the MDEQ, if applicable, upon demand, within sixty (60) Days of receiving the written 3 demand by either Plaintiff. Any demand for stipulated penalties must be provided by EPA or the 4 MDEQ in writing to CUSA. The demand for payment of stipulated penalties must specifically 5 identify the violation and the grounds upon which the demand is based. For any demand made 6 by both Plaintiffs, the Plaintiffs will specify in the demand letter what amount of the stipulated 7 penalty is due to the United States and what amount of the stipulated penalty is due to the 8 9 MDEQ. If only one Plaintiff is making a demand for payment of a stipulated penalty, it will 10 simultaneously send a copy of the demand to the other Plaintiff. 80. Either Plaintiff may in the unreviewable exercise of its discretion, reduce or waive 11 12 stipulated penalties otherwise due it under this Consent Decree. 81. 13 Stipulated penalties will continue to accrue as provided in Paragraph 78, during 14 any Dispute Resolution, but need not be paid until the following: If the dispute is resolved by agreement, CUSA will pay accrued penalties 15 a. 16 determined to be owing, together with interest, to the United States or the MDEQ within thirty 17 (30) Days of the effective date of the agreement. b. If the dispute is resolved by a written summary of position described in 18 19 Paragraph 92 (Informal Dispute Resolution), and CUSA does not invoke formal dispute resolution, CUSA will pay accrued penalties determined to be owing, together with interest, to 20 the United States or the MDEQ within seventy-five (75) Days of receipt of the written summary 21 22 of position. If the dispute is resolved by a Statement of Position described in 23 c. 24 Paragraph 94 (Formal Dispute Resolution), and CUSA does not seek judicial review, CUSA will 25 pay accrued penalties determined to be owing, together with interest, to the United States or the 26 MDEQ within sixty (60) Days of receipt of the Statement of Position. d. 27 If the dispute is appealed to the Court and the United States or the MDEQ prevails in whole or in part, CUSA will pay all accrued penalties determined by the Court to be 28 37

owing, together with interest, within sixty (60) Days of receiving the Court's decision or order,
 except as provided in Paragraph 81.e, below.

e. If any Party appeals the District Court's decision, CUSA will pay all
accrued penalties determined to be owing, together with interest, within fifteen (15) Days of
receiving the final appellate court decision.

6 82. CUSA will pay stipulated penalties owing to the United States in the manner set
7 forth in Paragraph 8 and with the confirmation notices required by Paragraph 119, except that the
8 transmittal letter will state that the payment is for stipulated penalties and will state for which
9 violation(s) the penalties are being paid. CUSA will pay stipulated penalties owing to the
10 MDEQ in the manner set forth in Paragraph 9.

11 83. If CUSA fails to pay stipulated penalties according to the terms of this Consent
12 Decree, CUSA will be liable for interest on such penalties, as provided for in 28 U.S.C. § 1961,
13 accruing as of the date payment became due. Nothing in this Paragraph will be construed to
14 limit the United States or the MDEQ from seeking any remedy otherwise provided by law for
15 CUSA's failure to pay any stipulated penalties.

16 84. The payment of penalties and interest, if any, will not alter CUSA's obligation to
17 complete the performance of the requirements of this Consent Decree.

85. Non-Exclusivity of Remedy. Stipulated penalties are not the United States' 18 19 exclusive remedy for violations of this Consent Decree. Subject to the provisions of Section 20 XXI (Effect of Settlement/Reservation of Rights), the United States expressly reserves the right 21 to seek any other relief it deems appropriate for CUSA's violation of this Consent Decree or 22 applicable law, including but not limited to, an action against CUSA for statutory penalties, additional injunctive relief, mitigation or offset measures, and/or contempt. However, the 23 24 amount of any statutory penalty assessed for a violation of this Consent Decree will be reduced 25 by an amount equal to the amount of any stipulated penalty assessed and paid pursuant to this 26 Consent Decree.

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# XVII. FORCE MAJEURE

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2 86. "Force majeure," for purposes of this Consent Decree, is defined as any event arising from causes beyond the control of CUSA, of any entity controlled by CUSA, or of 3 CUSA's contractors, that delays or prevents the performance of any obligation under this 4 Consent Decree despite CUSA's best efforts to fulfill the obligation. The requirement that 5 CUSA exercise "best efforts to fulfill the obligation" includes using best efforts to anticipate any 6 7 potential *force majeure* event and best efforts to address the effects of any potential *force majeure* event (a) as it is occurring and (b) following the potential *force majeure*, such that the 8 9 delay and any adverse effects of the delay are minimized. "Force Majeure" does not include 10 CUSA's financial inability to perform any obligation under this Consent Decree.

87. If any event occurs or has occurred that may delay the performance of any 11 12 obligation under this Consent Decree, as to which CUSA intends to assert a claim of *force* 13 *majeure*, CUSA will provide notice orally or by electronic transmission to EPA (and the MDEQ, 14 if the Pascagoula Refinery is affected), within ten (10) Days of when CUSA first knew, or by the 15 exercise of due diligence should have known, that the event would cause a delay. Within thirty 16 (30) Days thereafter, CUSA will provide in writing to EPA, and to the MDEQ where the delay 17 applies to the Pascagoula Refinery, an explanation and description of the reasons for the delay; the anticipated duration of the delay; all actions taken or to be taken to prevent or minimize the 18 19 delay; a schedule for implementation of any measures to be taken to prevent or mitigate the delay 20 or the effect of the delay; CUSA's rationale for attributing such delay to *force majeure*; and a 21 statement as to whether, in the opinion of CUSA, the delay in performance of an obligation 22 under this Consent Decree resulting from such event may cause or contribute to an endangerment to public health, welfare, or the environment ("30-Day Force Majeure Notice"). CUSA will 23 24 include with any 30-Day Force Majeure Notice documentation supporting the claim that the 25 delay was attributable to *force majeure*. Failure to substantially comply with the above 26 requirements will preclude CUSA from asserting any claim of *force majeure* for that event for 27 the period of time in which CUSA has failed to comply with the notice requirements, and for any 28 additional delay caused by such failure. CUSA will be deemed to know of any circumstances of

which CUSA, any entity controlled by CUSA, or CUSA's contractors knew or should have
 known.

88. If EPA, after a reasonable opportunity for review and comment by the MDEQ, if 3 applicable, agrees that the delay or anticipated delay is attributable to *force majeure*, it will 4 notify CUSA in writing, and the time for performance of the obligations under this Consent 5 Decree that are affected by *force majeure* will be extended by EPA, for such time as is necessary 6 7 to complete those obligations. An extension of the time for performance of the obligations affected by *force majeure* will not, of itself, extend the time for performance of any other 8 9 obligation. EPA will notify CUSA in writing of the length of the extension, if any, for 10 performance of the obligations affected by *force majeure*.

11 89. If EPA, after a reasonable opportunity for review and comment by the MDEQ, if
12 applicable, does not agree that the delay or anticipated delay has been or will be caused by *force*13 *majeure*, EPA will notify CUSA in writing of its decision. If EPA does not provide a response
14 within thirty (30) Days after receipt of CUSA's 30-Day *Force Majeure* Notice, CUSA may treat
15 the absence of a response as a denial of the 30-Day *Force Majeure* Notice.

16 90. If CUSA elects to invoke the dispute resolution procedures set forth in 17 Section XVIII (Dispute Resolution), it will do so no later than forty-five (45) Days after: (a) receipt of EPA's notice of decision regarding CUSA's force majeure claim; or (b) EPA fails to 18 19 provide a written response within thirty (30) Days after receipt of CUSA's 30-Day Force 20 *Majeure* Notice. In any such proceeding, CUSA will have the burden of demonstrating by a 21 preponderance of the evidence that the delay or anticipated delay has been or will be caused by 22 force majeure, that the duration of the delay or the extension sought was or will be warranted under the circumstances, that best efforts were exercised to avoid and mitigate the effects of the 23 24 delay, and that CUSA complied with the requirements of Paragraphs 86-87. If CUSA carries 25 this burden, the delay at issue will be deemed not to be a violation by CUSA of the affected 26 obligation(s) of this Consent Decree identified to EPA and the Court.

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# XVIII. DISPUTE RESOLUTION

2 91. Unless otherwise expressly provided for in this Consent Decree, the disputeresolution procedures of this Section will be the exclusive mechanism to resolve disputes related 3 to this Consent Decree. CUSA's failure to seek resolution of a dispute under this Section will 4 preclude CUSA from raising any such issue as a defense to an action by the United States to 5 enforce any obligation of CUSA arising under this Consent Decree, provided that: (a) CUSA had 6 7 written notice at least twenty (20) Days before such action of the intention of the United States or the MDEQ to seek enforcement of the obligation (e.g., through a demand for stipulated 8 9 penalties); (b) CUSA had an opportunity to dispute the position of the United States or the MDEQ under this Section; and (c) the notice provided by the United States or the MDEQ was 10 sufficiently clear and precise to inform CUSA of the relevance of the issue. 11

92. 12 **Informal Dispute Resolution**. Any dispute subject to Dispute Resolution under 13 this Consent Decree must first be the subject of informal negotiations, which may include any 14 non-binding alternative-dispute-resolution process agreeable to the United States and CUSA. 15 The dispute will be considered to have arisen when CUSA sends the United States a written 16 Notice of Dispute. Such Notice of Dispute must describe the matter in dispute. The period of 17 informal negotiations will not exceed twenty (20) Days after the United States receives CUSA's Notice of Dispute, unless that period is modified by written agreement. If the United States and 18 CUSA cannot resolve a dispute by informal negotiations, then the United States will provide 19 20 CUSA with a written summary of its position regarding the dispute. The position advanced in the United States' written summary of its position will be considered binding unless, within 21 22 forty-five (45) Days after the conclusion of the informal negotiation period, CUSA invokes formal dispute-resolution procedures as set forth below. 23

93. <u>Formal Dispute Resolution</u>. CUSA will invoke formal dispute-resolution
procedures, within the time period provided in the preceding Paragraph, by providing, pursuant
to Section XXIII (Notices), to the United States a written Statement of Position regarding the
matter in dispute. The Statement of Position must include, but need not be limited to, a

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statement of the dispute, CUSA's position, an explanation of that position, and supporting
 documentation relied upon by CUSA.

94. The United States will provide its written Statement of Position to CUSA within
forty-five (45) Days of receipt of CUSA's Statement of Position. The United States' Statement
of Position must include, but need not be limited to, the United States' position, an explanation
of that position, and supporting documentation relied upon by the United States. The United
States' Statement of Position will be binding on CUSA, unless CUSA files a motion for judicial
review of the dispute in accordance with the following Paragraph.

9 95. CUSA may seek judicial review of the dispute by filing with the Court and
10 serving on the United States, in accordance with Section XXIII (Notices), a motion requesting
11 judicial resolution of the dispute. The motion must be filed within thirty (30) Days of receipt of
12 the United States' Statement of Position pursuant to the preceding Paragraph. The motion must
13 contain a written statement of CUSA's position on the matter in dispute, and supporting factual
14 data, analysis, opinion, or documentation, and set forth the relief requested and any schedule
15 within which the dispute must be resolved for orderly implementation of the Consent Decree.

16 96. The United States will respond to CUSA's motion within the time period allowed
17 by the Local Rules of this Court or by court order. CUSA may file a reply memorandum, to the
18 extent permitted by the Local Rules or by court order.

19 97. Any Party to the dispute may appeal the decision of this Court to the United
20 States Court of Appeals for the Ninth Circuit to the extent allowed by law.

98. <u>Standard of Review</u>. Except as set forth in Paragraph 127, in a formal dispute resolution proceeding in this Section, CUSA bears the burden of demonstrating that its position complies with this Consent Decree and the CAA, and that it is entitled to relief under applicable principles of law. The United States, on the other hand, reserves the right to argue that its position is reviewable only on the administrative record and must be upheld unless arbitrary and capricious or otherwise not in accordance with law and CUSA reserves the right to argue to the contrary.

28

99. The invocation of dispute-resolution procedures under this Section will not, by
 itself, extend, postpone, or affect in any way any obligation of CUSA under this Consent Decree,
 unless and until final resolution of the dispute so provides. Stipulated penalties with respect to
 the disputed matter will continue to accrue from the first Day of noncompliance, but payment
 will be stayed pending resolution of the dispute as provided in Paragraph 81. If CUSA does not
 prevail on the disputed issue, stipulated penalties will be assessed and paid as provided in
 Section XVI (Stipulated Penalties).

8 XIX. <u>TRANSFER</u>

9 100. No transfer of an Ownership Interest or Operational Interest of a Covered Refinery, whether in compliance with the procedures of this Section or otherwise, will relieve 10 CUSA of its obligation to ensure that the terms of the Consent Decree are implemented, unless 11 12 the requirements of this Section are implemented and the Court consents to relieve CUSA of its 13 obligations under the Consent Decree for the Covered Refinery in which CUSA's interest is 14 proposed to be transferred. Except as provided in this Section (Transfer), any transfer of 15 Ownership Interest or Operational Interest of a Covered Refinery without complying with this 16 Section constitutes a violation of this Consent Decree.

17 101. If CUSA seeks to be relieved of its obligation to ensure that the terms of the
18 Consent Decree are implemented for the Covered Refinery in which CUSA's interest is proposed
19 to be transferred, the following requirements must be met:

a. At least forty-five (45) Days prior to any such transfer, CUSA will provide
a copy of this Consent Decree to the proposed transferee(s) and will provide written notice of the
prospective transfer, together with a copy of the proposed written agreement, to the United States
and EPA, and if the proposed transfer is of an Operational Interest or Ownership Interest in the
Pascagoula Refinery, to the MDEQ, in accordance with Section XXIII of this Consent Decree
(Notices).

b. CUSA will expressly condition any transfer, in whole or in part, of
ownership, operation, or other interest (exclusive of any non-controlling, non-operational
shareholder or membership interest) in the Covered Refinery, upon the execution by the

#### CONSENT DECREE

transferee of a modification to this Consent Decree. This modification will make the terms and 1 2 conditions of this Consent Decree applicable to and binding upon the transferee, and will substitute the transferee for CUSA as the Party to the Consent Decree that is responsible for 3 complying with the transferred obligations with respect to the Covered Refinery in which 4 CUSA's interest was transferred. When a Completion Report has been approved for any of 5 Sections VII, VIII, IX, X, XI, XII, XIII, and XIV of this Consent Decree, CUSA will not be 6 required to condition any transfer, in whole or in part, of ownership, operation, or other interest 7 (exclusive of any non-controlling, non-operational shareholder or membership interest) in the 8 9 Covered Refinery upon any such Section for which the Completion Report has been approved.

102. CUSA will send a draft motion and modification of the Consent Decree to 10 substitute the transferee for CUSA (or alternatively add the transferee as a Party to the Consent 11 12 Decree) to the United States, and the MDEQ, if applicable, no later than thirty (30) Days prior to 13 filing with the Court, that: (a) shows that the transferee has the financial and technical ability to 14 timely comply with all applicable requirements of this Consent Decree; and (b) shows that the 15 modification transfers the applicable obligations and liabilities under the Consent Decree from 16 CUSA to the transferee. If the United States, and the MDEQ, if applicable, approve the 17 proposed modification of the Consent Decree to substitute/add parties, CUSA may file the motion as being uncontested. If the United States, and the MDEQ, if applicable, disapprove of 18 19 the proposed modification of the Consent Decree to substitute/add parties within thirty (30) Days 20 of receipt, or do not approve or disapprove the proposed modification of the Consent Decree to 21 substitute/add parties within thirty (30) Days of receipt, CUSA may file a motion for the 22 approval of the proposed modification of the Consent Decree to substitute/add parties, which motion will be granted upon a showing that the proposed transferee has the financial and 23 24 technical ability to assume any obligations applicable to and binding upon the transferee in 25 accordance with Paragraph 101.b, and that the proposed modification transfers the applicable 26 obligations and liabilities under the Consent Decree from CUSA to the transferee. The United 27 States or the MDEQ, if applicable, may oppose the motion if they disagree that: (a) the proposed transferee has the financial and technical ability to assume any obligations applicable to and 28

binding upon the transferee in accordance with Paragraph 101.b; or (b) the proposed
 modification transfers the applicable obligations and liabilities under the Consent Decree from
 CUSA to the transferee.

103. This Consent Decree will not be construed to govern or impede the transfer of any
interest in any Covered Refinery between CUSA and any other party so long as CUSA remains
the entity bound by the obligations in this Consent Decree. Within thirty (30) Days after any
such transfer, CUSA will provide written notice of the transfer to the United States and EPA, and
if the proposed transfer is of an Ownership Interest or Operational Interest in the Pascagoula
Refinery, to the MDEQ, in accordance with Section XXIII (Notices) of this Consent Decree.

10

# XX. INFORMATION COLLECTION AND RETENTION

11 104. The United States and its representatives, including attorneys, contractors, and
12 consultants, will have the right of entry into any Covered Refinery, upon presentation of
13 credentials, at all reasonable times, and the MDEQ and its representatives, including attorneys,
14 contractors, and consultants will have the right of entry into the Pascagoula Refinery, upon
15 presentation of credentials, at all reasonable times, to:

a. Monitor the progress of activities required under this Consent Decree;
b. Verify any data or information submitted to the United States or the

18 MDEQ in accordance with the terms of this Consent Decree;

- c. Obtain documentary evidence relevant to compliance with the terms of
   this Consent Decree, including photographs and similar data; and
- 21

d. Assess CUSA's compliance with this Consent Decree.

105. Upon request, CUSA will provide EPA and the MDEQ, or their authorized
representatives, splits of any samples taken by CUSA pursuant to this Consent Decree. Upon
request, EPA and the MDEQ will provide CUSA splits of any samples taken by EPA or the
MDEQ pursuant to this Consent Decree.

26 106. Except as provided in Paragraph 107, upon the entry of this Consent Decree by
27 the Court, and until three (3) years after the termination of this Consent Decree, CUSA will
28 retain, and will instruct its contractors and agents to preserve, all non-identical copies of all

documents, records, or other information (including documents, records, or other information in 1 2 electronic form) in its or its contractors' or agents' possession or control, or that come into its or its contractors' or agents' possession or control, and that: (a) were relied upon to establish 3 completion of CUSA's compliance obligations set forth at Paragraph 74.b; or (b) were relied 4 upon in making reports pursuant to Paragraphs 65.a(b) and 65.a(c). This information-retention 5 requirement will apply regardless of any contrary corporate or institutional policies or 6 7 procedures. At any time during this information-retention period, upon request by the United States or, if applicable to the Pascagoula Refinery, the MDEQ, CUSA will provide copies of any 8 9 documents, records, or other information required to be maintained under this Paragraph.

10 107. Notwithstanding the provisions of Paragraph 106, CUSA need only retain for a
 11 period of one (1) year after approval of a Completion Report the records referenced at Paragraph
 12 106 that establish completion of obligations corresponding to that approved Completion Report.

13 108. After the conclusion of the information retention period provided in Paragraphs
14 106 or 107, as applicable, CUSA will notify the United States and the MDEQ at least ninety (90)
15 Days prior to the destruction of any documents, records, or other information within CUSA's
16 possession or control and subject to the requirements of the applicable Paragraph, and, upon
17 request by the United States or the MDEQ, CUSA will deliver any such documents, records, or
18 other information to EPA or the MDEQ.

19 109. CUSA may assert that information required to be provided under this Section is
20 protected as Confidential Business Information under 40 C.F.R. Part 2 and/or as "trade secrets"
21 under Miss. Code Ann. Section 49-17-39. As to any information that CUSA seeks to protect as
22 Confidential Business Information, CUSA will follow the procedures set forth in 40 C.F.R.
23 Part 2. As to any information that CUSA seeks to protect as "trade secrets" under state law,
24 CUSA will follow the procedures set forth in Miss. Code Ann. Section 49-17-39 or other
25 applicable state law.

110. This Consent Decree in no way limits or affects any right of entry and inspection,
or any right to obtain information, held by the United States or the MDEQ pursuant to applicable
federal or state laws, regulations, or permits, nor does it limit or affect any duty or obligation of

CUSA to maintain documents, records, or other information imposed by applicable federal or
 state laws, regulations, or permits.

3

## XXI. EFFECT OF SETTLEMENT/RESERVATION OF RIGHTS

4 111. This Consent Decree resolves all civil claims of the United States and the MDEQ
5 for the violations alleged in the Complaint and in the Findings of Violation issued by EPA to
6 CUSA dated December 17, 2013, through the date of lodging of this Consent Decree.

7 112. **No Admissions.** Neither this Consent Decree nor CUSA's consent to its entry 8 constitutes an admission by CUSA of: violations alleged by EPA or the MDEQ in the 9 Complaint; allegations stated in EPA's Revised Summary of Findings issued for the Richmond 10 Refinery dated January 30, 2014; potential violations arising out of EPA's inspection of the Richmond Refinery on August 6, 2012-July 31, 2013; allegations stated in EPA's Notification of 11 Inspection Findings and Areas of Concern issued for the Salt Lake City Refinery dated May 14, 12 13 2015; potential violations arising out of EPA's inspection of the Salt Lake City Refinery on June 14 24-27, 2013; allegations stated in EPA's Investigation Report issued for the El Segundo Refinery 15 dated November 10, 2015; potential violations arising out of EPA's inspection of the El Segundo 16 Refinery on November 4-8, 2013; allegations stated in EPA's Notice of General Duty Clause and 17 Risk Management Program Violations issued for the Pascagoula Refinery dated October 20, 2016; potential violations arising out of EPA's inspection of the Pascagoula Refinery on 18 19 September 8-11, 2014; allegations stated in EPA's Investigation Report issued for the Kapolei 20 Refinery dated November 24, 2015; and/or potential violations arising out of EPA's inspection 21 of the Kapolei Refinery on April 14-17, 2014. Except as expressly stated in this Consent Decree, 22 CUSA reserves all defenses and all rights and remedies, legal and equitable, available to it in any action pertaining to this Consent Decree, any applicable permit, the CAA, or any other federal, 23 24 state or local statute, rule or regulation.

25 113. <u>Plaintiffs' Reservations of Rights</u>. The United States and the MDEQ reserve all
26 legal and equitable remedies available to enforce the provisions of this Consent Decree. This
27 Consent Decree will not be construed to limit the rights of the United States or the MDEQ to
28 obtain penalties or injunctive relief under the CAA, EPCRA, CERCLA, or their implementing

regulations, or under other federal or state laws, regulations, or permit conditions, except as
 expressly specified in Paragraphs 85 and 111. The United States and the MDEQ further reserve
 all legal and equitable remedies to address any imminent and substantial endangerment to the
 public health or welfare or the environment arising at, or posed by, any Covered Refinery,
 whether related to the alleged violations addressed in this Consent Decree or otherwise.

114. In any subsequent administrative or judicial proceeding initiated by the United 6 7 States or the MDEQ for injunctive relief, civil penalties, or other relief relating to the Covered 8 Refineries, CUSA will not assert, and may not maintain, any defense or claim based upon the 9 principles of waiver, res judicata, collateral estoppel, issue preclusion, claim preclusion, 10 claim-splitting, or other defenses based upon any contention that the claims raised by the United States or the MDEQ in the subsequent proceeding were or should have been brought in the 11 12 instant case, except with respect to claims that have been specifically resolved pursuant to 13 Paragraph 111.

14 115. This Consent Decree is not a permit, or a modification of any permit, under any 15 federal, state, or local laws or regulations. CUSA is responsible for achieving and maintaining 16 complete compliance with all applicable federal, state, and local laws, regulations, and permits; 17 and CUSA's compliance with this Consent Decree will be no defense to any action commenced pursuant to any such laws, regulations, or permits, except as set forth herein. The United States 18 19 and the MDEQ do not, by their consent to the entry of this Consent Decree, warrant or aver in 20 any manner that CUSA's compliance with any aspect of this Consent Decree will result in 21 compliance with provisions of the CAA, CERCLA, or EPCRA, or with any other provisions of 22 federal, state, or local laws, regulations, or permits.

116. This Consent Decree does not limit or affect the rights of CUSA or of the United
States or the MDEQ against any third parties, not party to this Consent Decree, nor does it limit
the rights of third parties, not party to this Consent Decree, against CUSA or the United States or
the MDEQ, except as otherwise provided by law.

27 117. This Consent Decree will not be construed to create rights in, or grant any cause28 of action to, any third party not party to this Consent Decree.

# 1 XXII. COSTS

118. The Parties will bear their own costs of this action, including attorneys' fees,
except that the United States and the MDEQ will be entitled to collect the costs (including
attorneys' fees) incurred in any action necessary to collect any portion of the civil penalty or any
stipulated penalties due but not paid by CUSA.

# 6 XXIII. <u>NOTICES</u>

7

119. Unless otherwise specified in this Consent Decree, whenever notifications,

8 submissions, or communications are required by this Consent Decree, they will be made in

- 9 writing and addressed as follows:
- 10 As to the United States by e-mail:
- 11 eescdcopy.enrd@usdoj.gov Re: DJ # 90-5-2-1-11576
- 13 As to the United States by mail:
- 14EES Case Management Unit<br/>Environment and Natural Resources Division
- 15 U.S. Department of Justice
- 16 P.O. Box 7611
- Washington, DC 20044-7611
- 17 Re: DJ # 90-5-2-1-11576
- 18 With copy to:
- 19 Deborah Gitin
- 20 U.S. Department of Justice
- Environmental Enforcement Section
- 21 301 Howard Street, Suite 1050
- 22 San Francisco, CA 94105
- Re: DJ # 90-5-2-1-11576
- 23
- $24 \qquad \underline{\text{As to EPA}}:$
- 25 Director, Waste and Chemical Enforcement Division
- U.S. Environmental Protection Agency
- 26 1200 Pennsylvania Avenue, NW
- 27 Mail Code 2249A
- Washington, DC 20460

CONSENT DECREE United States of America and the State of Mississippi v. Chevron U.S.A. Inc. (N.D. Cal.)

1	As to the MDEQ:
1 2 3 4 5	Chief, Air Division Office of Pollution Control Mississippi Department of Environmental Quality P.O. Box 2261 Jackson, MS 39225-2261 <u>As to CUSA</u> :
6	
7 8 9	Corporation Service Company, Which Will Do Business in California as CSC – Lawyers Incorporating Service 2710 Gateway Oaks Drive, Suite 150N Sacramento, CA 95833
10	With a copy to:
11 12 13	Vice President and General Counsel, Downstream and Chemicals Chevron Products Company (a Chevron U.S.A. Inc. division) 6001 Bollinger Canyon Road, Building T San Ramon, California 94583
14	120. Any Party may, by written notice to the other Parties, change its designated notice
15	recipient or notice address provided above.
16	121. Notices submitted pursuant to this Section will be deemed submitted: (a) on the
17	Day sent if provided by email; (b) if provided by mail, three (3) Days after the date postmarked;
18	and (c) on the Day of delivery if sent by overnight delivery, unless otherwise provided in this
19	Consent Decree or by mutual agreement of the Parties in writing.
20	XXIV. <u>EFFECTIVE DATE</u>
21	122. The Effective Date of this Consent Decree will be the date upon which this
22	Consent Decree is entered by the Court or a motion to enter the Consent Decree is granted,
23	whichever occurs first, as recorded on the Court's docket.
24	XXV. <u>RETENTION OF JURISDICTION</u>
25	123. The Court retains jurisdiction over this case until termination of this Consent
26	Decree, for the purpose of resolving disputes arising under this Consent Decree or entering
27	orders modifying this Consent Decree, pursuant to Sections XVIII and XXVI, or effectuating or
28	enforcing compliance with the terms of this Consent Decree.
	50

# XXVI. MODIFICATION

1

2 124. The terms of this Consent Decree, including any attached appendices, may be modified only by a subsequent written agreement signed by the United States and CUSA, and 3 where the modification affects the Pascagoula Refinery, the MDEQ. Where the modification 4 constitutes a material change to this Decree, it will be effective only upon approval by the Court. 5

125. Minor Modifications. Minor modifications consist of changes to the Consent 6 Decree that do not extend the date for the completion of any compliance requirement. Minor 7 modifications to this Consent Decree must be in writing and signed by CUSA, the United States, 8 9 and the MDEQ (with regard to modifications relating to the Pascagoula Refinery only). CUSA may propose minor modifications to the Consent Decree at any time by providing written notice 10 to the United States that includes the proposed modification and the reason for the modification. 11

12 The following modifications will explicitly be considered non-material and do not 126. 13 require Court approval: (a) extensions of time not to exceed ninety (90) Days at a time or 14 one hundred eighty (180) Days cumulatively; (b) changes in contact information for Section 15 XXIII (Notices); (c) changes to the title of the individual designated in Paragraph 17.d, provided 16 that the person is of equal or greater rank; and (d) correction of scrivener's errors.

17 127. Any disputes concerning modification of this Consent Decree will be resolved pursuant to Section XVIII (Dispute Resolution) provided, however, the Party seeking the 18 19 modification bears the burden of demonstrating that it is entitled to the requested modification in 20 accordance with Federal Rule of Civil Procedure 60(b).

21

XXVII. TERMINATION

22 128. After CUSA has completed the requirements of Section VII (Paragraphs 16-17), Section VIII (Paragraphs 20, 21 and 22.a-22.c), Section IX (Paragraphs 25-26), Section X 23 24 (Paragraphs 28-32), Section XI (Paragraphs 35, 37 and 38), Section XII (Paragraphs 42-45), 25 Section XIII (Paragraphs 48-50) and Section XIV of this Consent Decree, has complied with all 26 other compliance obligations of this Consent Decree, has complied with Section VII (Paragraphs 27 16-19) for a period of five (5) years after the Effective Date and with Section XI (Paragraphs 37-41) for a period of one (1) year after the date of notice in Paragraph 41(e), and has paid the civil 28

penalty and any accrued stipulated penalties as required by this Consent Decree, CUSA may
 serve upon the United States and the MDEQ a Request for Termination, stating that CUSA has
 satisfied those requirements, together with all necessary supporting documentation. Completion
 Reports previously submitted in accordance with Paragraphs 11-14, need not be resubmitted and
 constitute certification for those individual terms.

Following receipt by the United States and the MDEQ of CUSA's Request for
Termination, the Parties will confer informally concerning the request and any disagreement that
the Parties may have as to whether CUSA has satisfactorily complied with the requirements for
termination of this Consent Decree. If the United States after consultation with the MDEQ
agrees that the requirements of the Consent Decree have been completed, the Parties will submit,
for the Court's approval, a joint stipulation terminating the Consent Decree.

12 130. If the United States after consultation with the MDEQ does not agree that the
requirements of the Consent Decree have been completed, CUSA may invoke Dispute
Resolution under Section XVIII. However, CUSA will not seek Dispute Resolution of any
dispute regarding termination until sixty (60) Days after service of its Request for Termination.

16

#### XXVIII. PUBLIC PARTICIPATION

17 131. This Consent Decree will be lodged with the Court for a period of not less than thirty (30) Days for public notice and comment in accordance with 28 C.F.R. § 50.7. The United 18 19 States reserves the right to withdraw or withhold its consent if the comments regarding the 20 Consent Decree disclose facts or considerations indicating that the Consent Decree is 21 inappropriate, improper, or inadequate. CUSA consents to entry of this Consent Decree without 22 further notice and agrees not to withdraw from this Consent Decree or to oppose entry of this Consent Decree by the Court or to challenge any provision of the Consent Decree, unless the 23 24 United States has notified CUSA in writing that it no longer supports entry of the Consent 25 Decree.

26 XXIX. <u>SIGNATORIES/SERVICE</u>

27 132. Each undersigned representative of CUSA and the MDEQ, and the Assistant
28 Attorney General for the Environment and Natural Resources Division of the Department of

2 Consent Decree and to execute and legally bind the Party he or she represents to this document. 133. 3 This Consent Decree may be signed in counterparts, and its validity may not be challenged on that basis. CUSA agrees to accept service of process by mail with respect to all 4 matters arising under or relating to this Consent Decree and to waive the formal service 5 requirements set forth in Rules 4 and 5 of the Federal Rules of Civil Procedure and any 6 7 applicable Local Rules of this Court including, but not limited to, service of a summons. All other court filings will be served through the Court's electronic filing system. CUSA need not 8 9 file an answer to the Complaint unless or until the Court expressly declines to enter this Consent 10 Decree.

Justice certifies that he or she is fully authorized to enter into the terms and conditions of this

11 XXX. INTEGRATION

1

12 This Consent Decree constitutes the final, complete, and exclusive agreement and 134. 13 understanding among the Parties with respect to the settlement embodied in the Consent Decree 14 and supersedes all prior drafts, agreements and understandings, whether oral or written, 15 concerning the settlement embodied herein. The Parties acknowledge that there are no 16 representations, agreements, or understandings relating to the settlement other than those 17 expressly contained in this Consent Decree. Prior drafts of this Consent Decree will not be used in any action involving the interpretation or enforcement of this Consent Decree; accordingly, 18 19 any rule of law or legal decision that would require ambiguities in this Consent Decree to be 20 construed against the Party that drafted the provision at issue is not applicable to interpretation of this Consent Decree. 21

22

#### XXXI. <u>FINAL JUDGMENT</u>

135. Upon approval and entry of this Consent Decree by the Court, this Consent
Decree will constitute a final judgment of the Court as to the United States, the MDEQ, and
CUSA. The Court finds that there is no just reason for delay and therefore enters this judgment
as a final judgment under Rules 54 and 58 of the Federal Rules of Civil Procedure.

- 27 XXXII. <u>APPENDICES</u>
- 28

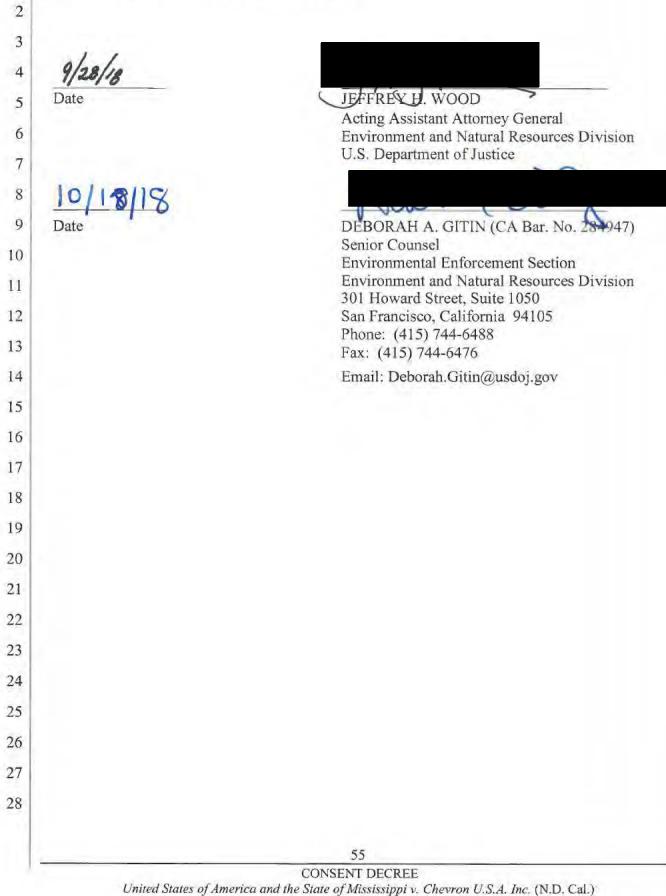
136. The following Appendices are attached to and part of this Consent Decree:

1	a.	"Appendix A" is the Technical Authority Process Progress Report;
2	b.	"Appendix B" is the Sulfidation Corrosion Inspections – Refinery-Specific
3	Information;	
4	с.	"Appendix C" is the Carbon Steel Piping Replacement – Piping
5	Identification and Isc	ometric Numbers;
6	d.	"Appendix D" is the Carbon Steel Piping Replacement – Implementation
7	Schedule;	
8	e.	"Appendix E" is the Integrity Operating Windows – Refinery-Specific
9	Information;	
10	f.	"Appendix F" is the Fitness-For-Service Level 1 Assessment Training
11	table; and	
12	g.	"Appendix G" is the Emergency-Response Training – Implementation
13	Schedule; and	
14	h.	"Appendix H" is the Statement of Work—Supplemental Environmental
15	Project.	
16		
17	Dated and entered the	is day of, 2018.
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19		UNITED STATES DISTRICT JUDGE
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United States of America and the State of Mississippi v. Chevron U.S.A. Inc. (N.D. Cal.)

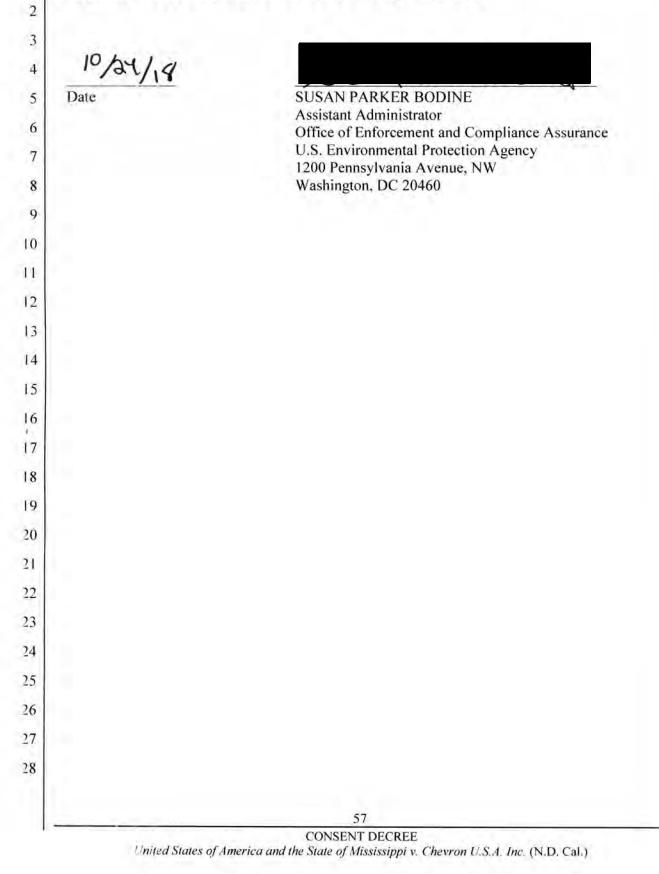
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### FOR THE UNITED STATES OF AMERICA:

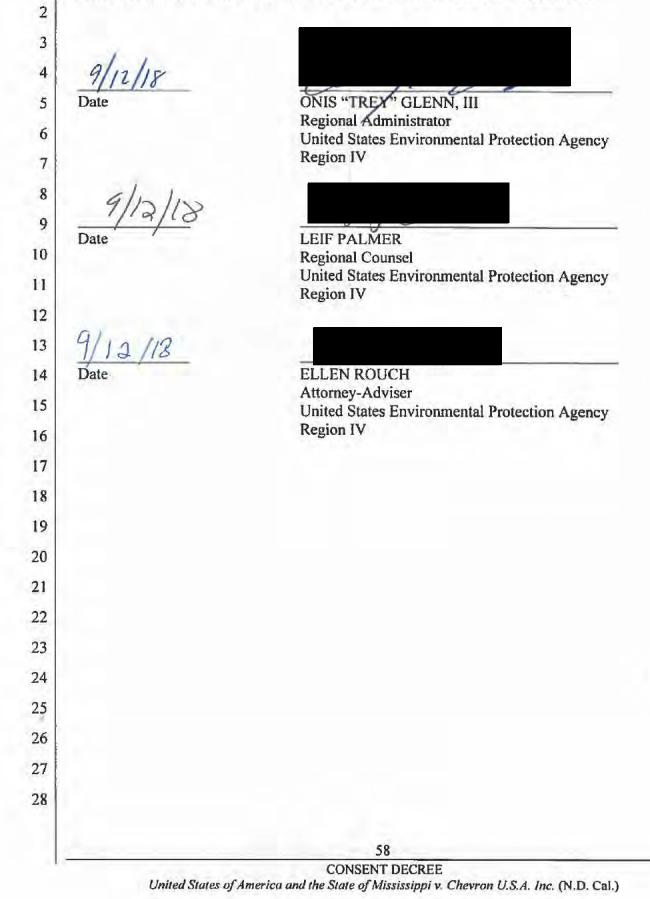


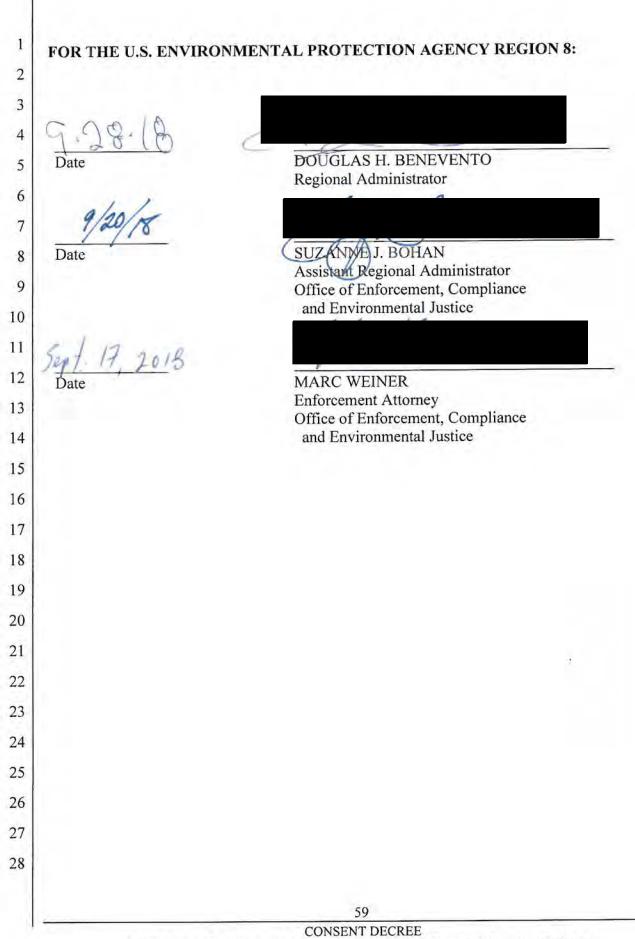
	ALEX G. TSE
	United States Attorney Northern District of California
in the lin	
10/15/18	SADA WINSLOW (DCDN 457642)
Date	SARA WINSLOW (DCBN 457643) Chief, Civil Division
	MICHELLE LO (NYBN 4325163) Assistant United States Attorney
	450 Golden Gate Avenue, Box 36055
	San Francisco, California 94102-3495 Telephone: (415) 436-7180
	Facsimile: (415) 436-6748
	Email: Michelle.Lo@usdoj.gov

# FOR THE U.S. ENVIRONMENTAL PROTECTION AGENCY:



# FOR THE U.S. ENVIRONMENTAL PROTECTION AGENCY REGION 4:

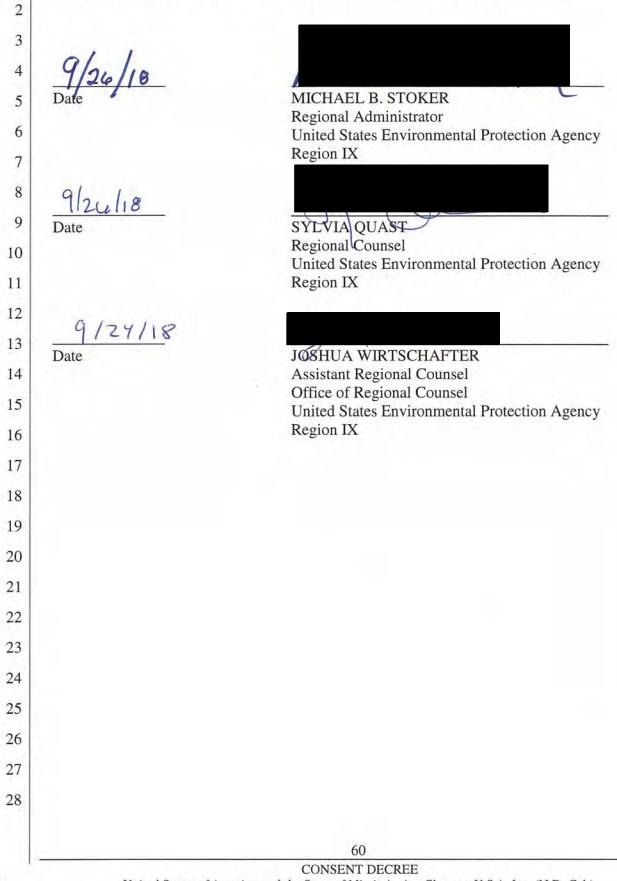




United States of America and the State of Mississippi v. Chevron U.S.A. Inc. (N.D. Cal.)

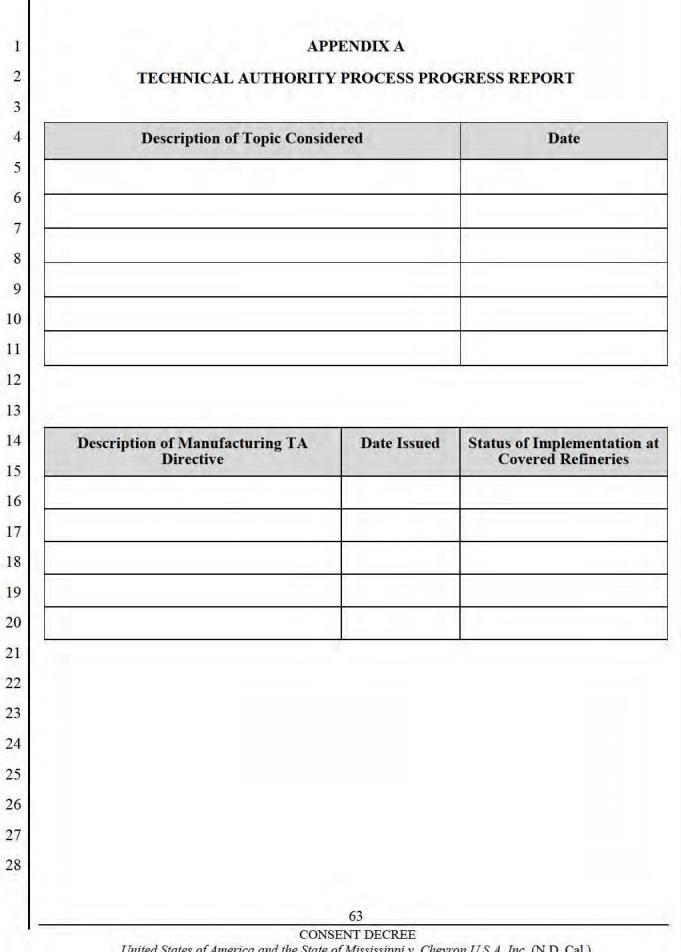
#### FOR THE U.S. ENVIRONMENTAL PROTECTION AGENCY REGION 9:

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1 2	FOR THE MISSISSIFFI	DEPARTMENT OF ENVIRONMENTAL QUALITY:
3		
4	10/16/18	
5	Date	GRETCHEN L. ZMITROVICH, P.E. MS Bar No. 101470
6		Senior Attorney
7		Office of Pollution Control Mississippi Department of Environmental Quality
8		P.O. Box 2261 Jackson, Mississippi 39225-2261
9		Telephone: (601) 961-5050
0		Facsimile: (601) 961-5674 Email: gzmitrovich@mdeq.ms.gov
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FOR CHEVRON U.S.A.	INC.:
22 Bet 2018	
Date	FRANK G. SOLER
	Assistant Secretary
	62 CONSENT DECREE



Process Unit	Inspection Isometric Number	Inspection Completion D
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United States of America and the State of Mississippi v. Chevron U.S.A. Inc. (N.D. Cal.)

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#### APPENDIX C

#### 1 2 CARBON STEEL PIPING REPLACEMENT—PIPING IDENTIFICATION AND **ISOMETRIC NUMBERS** 3 4 1. El Segundo Refinery 5 **Process Unit Inspection Isometric Number** 6 4 Crude Unit 511-003-010 [4] 7 Vacuum Resid Desulfurization Unit (VRDS) 515-005-006 [1] 8 Vacuum Resid Desulfurization Unit (VRDS) 515-005-007 [1] 9 Coker Unit 352-004-003 [1] 10 Jet Hydrofiner Unit 11 836-005-003 [4] 12 2. Pascagoula Refinery 13 **Process Unit Inspection Isometric Number** 14 0011-014-02-01 Crude I Unit 15 Crude I Unit 0011-014-02-03 16 Fluid Catalytic Cracking Unit (FCC) 0016-001-05-01 17 Fluid Catalytic Cracking Unit (FCC) 0016-003-01-01 18 19 Fluid Catalytic Cracking Unit (FCC) 0016-003-02-01 20 Crude II Unit 0061-008-03-01 21 Isomax I Unit 0013-009-05-01 22 Isomax I Unit 0013-009-06-01 23 24

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# APPENDIX C (continued)

# 3. Richmond Refinery

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Process Unit	Inspection Isometric Number
4 Crude Unit	0955-002-008
4 Crude Unit	0955-002-014
4 Crude Unit	0955-002-015
4 Crude Unit	0955-002-016
4 Crude Unit	0955-002-017
4 Crude Unit	0955-002-018
4 Crude Unit	0955-002-030
4 Crude Unit	0955-002-031
4 Crude Unit	0955-002-032
4 Crude Unit	0955-007-009
4 Crude Unit	0955-007-017
4 Crude Unit	0955-009-003
4 Crude Unit	0955-012-001
4 Crude Unit	0955-012-002
4 Crude Unit	0955-013-007
4 Crude Unit	0955-013-008
4 Crude Unit	0955-013-009
4 Crude Unit	0955-015-002
4 Crude Unit	0955-015-017
4 Crude Unit	0955-019-034
4 Crude Unit	0955-019-017

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# APPENDIX C (continued)

# 4. Salt Lake City Refinery

Process Unit	Inspection Isometric Number
Fluid Catalytic Cracking Unit (FCC)	032-001-005
Fluid Catalytic Cracking Unit (FCC)	032-001-006
Fluid Catalytic Cracking Unit (FCC)	032-001-007
Fluid Catalytic Cracking Unit (FCC)	032-019-003
Fluid Catalytic Cracking Unit (FCC)	032-019-005
Fluid Catalytic Cracking Unit (FCC)	032-019-015
Fluid Catalytic Cracking Unit (FCC)	032-019-017
Fluid Catalytic Cracking Unit (FCC)	032-019-020
Fluid Catalytic Cracking Unit (FCC)	032-021-062
Fluid Catalytic Cracking Unit (FCC)	032-022-002
Coker Unit	070-010-001
Coker Unit	070-010-002
Coker Unit	070-010-004
Coker Unit	070-010-009
Coker Unit	070-010-017
Hydrofiner Unit	071-008-005

CONSENT DECREE United States of America and the State of Mississippi v. Chevron U.S.A. Inc. (N.D. Cal.)

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#### **APPENDIX D**

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#### CARBON STEEL PIPING REPLACEMENT—IMPLEMENTATION SCHEDULE

#### 1. El Segundo Refinery

Process Unit	Inspection Isometric Number	Material Selected	Date Replacement Completed
4 Crude Unit	511-003-010 [4]		
Vacuum Resid Desulfurization Unit (VRDS)	515-005-006 [1]		
Vacuum Resid Desulfurization Unit (VRDS)	515-005-007 [1]	H-1	
Coker Unit	352-004-003 [1]		
Jet Hydrofiner Unit	836-005-003 [4]		

# 14 2. Pascagoula Refinery

Process Unit	Inspection Isometric Number	Material Selected	Date Replacement Completed
Crude I Unit	0011-014-02-01		[]
Crude I Unit	0011-014-02-03		
Fluid Catalytic Cracking Unit (FCC)	0016-001-05-01		
Fluid Catalytic Cracking Unit (FCC)	0016-003-01-01		1
Fluid Catalytic Cracking Unit (FCC)	0016-003-02-01		1
Crude II Unit	0061-008-03-01		
Isomax I Unit	0013-009-05-01		1
Isomax I Unit	0013-009-06-01		

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CONSENT DECREE United States of America and the State of Mississippi v. Chevron U.S.A. Inc. (N.D. Cal.)

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# APPENDIX D (continued)

# 3. Richmond Refinery

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Process Unit	Inspection Isometric Number	Material Selected	Date Replacement Completed
4 Crude Unit	0955-002-008	ļ	1
4 Crude Unit	0955-002-014		
4 Crude Unit	0955-002-015		1
4 Crude Unit	0955-002-016		ja
4 Crude Unit	0955-002-017		
4 Crude Unit	0955-002-018		1
4 Crude Unit	0955-002-030		10
4 Crude Unit	0955-002-031		
4 Crude Unit	0955-002-032		
4 Crude Unit	0955-007-009		1
4 Crude Unit	0955-007-017		
4 Crude Unit	0955-009-003		)
4 Crude Unit	0955-012-001		);
4 Crude Unit	0955-012-002		11 21
4 Crude Unit	0955-013-007		
4 Crude Unit	0955-013-008		1
4 Crude Unit	0955-013-009		j
4 Crude Unit	0955-015-002		1
4 Crude Unit	0955-015-017		1
4 Crude Unit	0955-019-034		1
4 Crude Unit	0955-019-017		

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# APPENDIX D (continued)

# 4. Salt Lake City Refinery

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Process Unit	Inspection Isometric Number	Material Selected	Date Replacement Completed
Fluid Catalytic Cracking Unit (FCC)	032-001-005		)
Fluid Catalytic Cracking Unit (FCC)	032-001-006		1
Fluid Catalytic Cracking Unit (FCC)	032-001-007		
Fluid Catalytic Cracking Unit (FCC)	032-019-003		1
Fluid Catalytic Cracking Unit (FCC)	032-019-005		1
Fluid Catalytic Cracking Unit (FCC)	032-019-015		
Fluid Catalytic Cracking Unit (FCC)	032-019-017		11
Fluid Catalytic Cracking Unit (FCC)	032-019-020		
Fluid Catalytic Cracking Unit (FCC)	032-021-062		1
Fluid Catalytic Cracking Unit (FCC)	032-022-002		1
Coker Unit	070-010-001		1
Coker Unit	070-010-002		
Coker Unit	070-010-004		
Coker Unit	070-010-009		
Coker Unit	070-010-017		j
Hydrofiner Unit	071-008-005		

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#### APPENDIX E

#### INTEGRITY OPERATING WINDOWS—REFINERY-SPECIFIC INFORMATION

#### 1. El Segundo Refinery

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Process Unit	Stage 1 Implementation Completion Date	Stage 2 Implementation Completion Date
2 Crude Unit		
4 Crude Unit		
Fluid Catalytic Cracking Unit (FCC)		
Naphtha Hydrotreater 3 (NHT-3)		
Naphtha Hydrotreater 2 (NHT-2)		
Vacuum Resid Desulfurization (VRDS)		
Vacuum Gas Oil Unit (VGO)		
Jet Hydrofiner Plant (JHP)		
Naptha Hydrotreater (NHT)		
Hydrocracker – CKN		
Hydrocracker – Isocracker		
Coker Unit		
Minalk Plant		
Penex Plant		
Sulfuric Acid Alkylation Unit		
No. 3 Caustic Treating Plant		
Butamer Plant		
Continuous Catalytic Reforming (CCR)		

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Process Unit	Stage 1 Implementation Completion Date	Stage 2 Implementation Completion Date
Amine-H2S Recovery (No. 4 H2S)		
Amine-H2S Recovery (No. 5 H2S)		
Amine-H2S Recovery (No. 6 H2S)		
SRU-Sulfur Recovery Unit 10		
SRU-Sulfur Recovery Unit 20		1
SRU-Sulfur Recovery Unit 70		
SRU-Sulfur Recovery Unit 73		
Steam Naphtha Reformer (SNR)		

# APPENDIX E (continued)

#### 2. Pascagoula Refinery

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Process Unit	Stage 1 Implementation Completion Date	Stage 2 Implementation Completion Date
Crude I Unit		1
Crude II Unit		
Crude Vacuum Distillation Unit (VDU)		
Fluid Catalytic Cracking Unit (FCC)		
Hydrodenitrification (HDN)		
FCC Hydrofiner		
HDS I Naphtha Hydrotreater		
Jet Hydrofiner		
HDS 2 Naphtha Hydrotreater		
Base Oil Hydrocracker & Iso-dewaxing		
Coker Hydrodenitrification (CHDN)		
Residuum Desulfurization (RDS)		
Isomax I Unit		
Isomax II Unit		
Ethyl Benzene Plant		
Coker Unit		
Sulfuric Acid Alkylation Unit II		
Sulfuric Acid Alkylation Unit I		
Light Ends Recovery I		

Process Unit	Stage 1 Implementation Completion Date	Stage 2 Implementation Completion Dat
Light Ends Recovery II		
Rheniformer I		
Continuous Catalytic Reforming (CCR)		
Gas Recovery Unit (GRU)		
Amine-H2S Recovery I		
Amine Regeneration		
Sulfur Recovery Unit V (SRU)		
Sulfur Recovery Unit IV (SRU)		
Sulfur Recovery Unit VI (SRU)		
SRU-Sulfur Recovery		
Hydrogen Unit II		
Hydrogen Unit III		

# APPENDIX E (continued)

# 3. Richmond Refinery

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Process Unit	Stage 1 Implementation Completion Date	Stage 2 Implementation Completion Date
4 Crude Unit		
Fluid Catalytic Cracking Unit (FCC)		· · · · · · · · · · · · · · · · · · ·
Jet Hydrotreater (JHT)		
Diesel Hydrotreater (DHT)		
Gas Hydrotreater (GHT)		
5 Naptha Hydrotreater (NHT)		
Light Neutral Hydrofinisher (LNF)		
Heavy Neutral Hydrofinisher (HNF)		
Taylor Katalytic Cracking (TKC)		
Heavy Neutral Hydrocracker (HNC)		
Light Neutral Hydrocracker (LNC)		
Isocracker		] [
Taylor Katalytic Denitrification (TKN)		
Iso Distillation and Gas Recovery		
Alkylation and Alkylation Gas Recovery		
Propylene Polymer		
Penhex Isomerization		
No. 4 Catalytic Reforming		
No. 5 Catalytic Reforming		

Process Unit	Stage 1 Implementation Completion Date	Stage 2 Implementation Completion Dat
Richmond Lube Oil Plant Gas Recovery (GRU)		
Solvent Deasphalting (SDA)	1	
Butamer		
Amine-3 H2S Recovery		
Amine-4 H2S Recovery		
Amine-5 H2S Recovery		
No. 1 Sulfur Recovery Unit (SRU)		
No. 2 Sulfur Recovery Unit (SRU)		
No. 3 Sulfur Recovery Unit (SRU)		

APPENDIX E (continued)

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United States of America and the State of Mississippi v. Chevron U.S.A. Inc. (N.D. Cal.)

Process Unit	Stage 1 Implementation Completion Date	Stage 2 Implementation Completion Dat
Crude Unit		
Gas Recovery Unit		
Fluid Catalytic Cracking Unit (FCC)		
Alkylation Unit		
Hydrofiner (HDN)		
Hydrogen Desulfurization (HDS)		
Vacuum Gas Oil Unit (VGO)		
SRU/TGU – Sulfur Recovery and Tail Gas Unit 1		
SRU/TGU – Sulfur Recovery and Tail Gas Unit 2		
Isomerization Unit		
Coker Unit		
Reformer		
Amine Unit 1		
Amine Unit 2		

United States of America and the State of Mississippi v. Chevron U.S.A. Inc. (N.D. Cal.)

Training Location	Training Date(s)	Attendee Title at the Time of Training	Attendee Facility at the time of Training	Proficiency Exam Taker [Y/N]
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# APPENDIX G

Date of Training and Location	Training Module Description	Attendee Title at the Time of Training	Attendee Facility a the Time of Trainin
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1	APPENDIX H
2	STATEMENT OF WORK
3	SUPPLEMENTAL ENVIRONMENTAL PROJECT
4	Project:
4 5	Purchase of emergency response equipment to be owned and used by the City of Richmond,
6	California Fire Department, City of Manhattan Beach, California Fire Department (El Segundo Refinery), City of El Segundo Fire Department, Department of Emergency Services for the City
7	and County of Honolulu, Hawaii (Kapolei Refinery), Jackson County Office of Emergency Services (Pascagoula Refinery), Mississippi Department of Environmental Quality, South Davis
8	Metro Fire Service Area (Salt Lake City Refinery), and Salt Lake City Fire Department. CUSA must complete this SEP by no later than eighteen (18) months after the Effective Date.
9	Nexus to Clean Air Act Section 112(r):
10	
11	This SEP enhances the capabilities of emergency responders located near the Covered Refineries and the Kapolei Refinery and will facilitate quick and efficient response to releases associated
12	with emergency events. Adequate nexus is deemed to exist using category G – environmental compliance promotion and emergency response planning and preparedness, and enabling
13	organizations to fulfill their obligations under the Emergency Planning and Community Right-to-
14	Know Act (EPCRA) to assess dangers of hazardous chemicals present, and to develop emergency response plans to better respond to chemical incidents – in the March 2015 Update to
15	the 1998 SEP Policy. This SEP is appropriate because the primary impact of the donation of emergency response equipment accrues to the same emergency planning districts in which the
16	Covered Refineries and the Kapolei Refinery are located. Further, this SEP relates directly to the
17	violations of Section 112(r) of the Clean Air Act which are alleged in the Complaint.
18	1. Description of Project City of Richmond, California Fire Department
19	Purchase of emergency response equipment to be owned and used by the City of Richmond Fire
20	Department.
21	Scheduling:
22	CUSA intends to order the equipment described below for the City of Richmond Fire
23	Department within one hundred eighty (180) Days following the Effective Date. Dependent on supplier capabilities, CUSA expects delivery within a reasonable time after the orders are placed.
24	The SEP will be considered complete when each piece of equipment described below, or substantially similar equipment in the event the equipment listed below is not available, is
25	delivered to the City of Richmond Fire Department. If necessary, substantially similar
26	equipment will be purchased by CUSA after consultation with the City of Richmond Fire Department.
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1	<b>APPENDIX H</b> (continued)
2	City of Richmond, California Fire Department (continued)
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4 5	A. Eight (8) large diameter fire hoses valued at \$100,000 total.
6	B. Ten (10) fire nozzles valued at \$50,000 total.
7	C. One (1) year supply of fire suppression foam valued at \$20,000.
8 9	D. One hundred (100) Scott self-contained breathing apparatus face masks valued at \$181,911 total.
10	E. Forty (40) Air-Pax X3 Pro SCBA harnesses valued at \$214,247.20 total.
11	F. Twenty (20) Scott safety SCBA cylinders valued at \$40,000 total.
12	G. Three (3) pumper fire engines with custom specifications valued at \$2,400,000 total.
13	H. One (1) fire truck with custom specifications valued at \$1,450,000.
14	I. Eight (8) ISG/Scott thermal imaging cameras valued at \$68,000 total.
15 16	J. Eight (8) EMS chest compression machines (LUCAS chest device 3) valued at \$136,000
10	total.
18	TOTAL EQUIPMENT COST FOR THE CITY OF RICHMOND FIRE DEPARTMENT: Approximately \$4,660,158.20
19	Approximately \$4,000,138.20
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United States of America and the State of Mississippi v. Chevron U.S.A. Inc. (N.D. Cal.)

<b>APPENDIX H</b> (continued)
2. Description of Project City of Manhattan Beach, California Fire Department (H Segundo Refinery)
Purchase of emergency response equipment to be owned and used by the City of Manhattan
Beach Fire Department.
Scheduling:
CUSA intends to order the equipment described below for the City of Manhattan Beach Fire
Department within one hundred eighty (180) Days following the Effective Date. Dependent or supplier capabilities, CUSA expects delivery within a reasonable time after the orders are place
The SEP will be considered complete when each piece of equipment described below, or substantially similar equipment in the event the equipment listed below is not available, is
delivered to the City of Manhattan Beach Fire Department. If necessary, substantially similar equipment will be purchased by CUSA after consultation with the City of Manhattan Beach Fire
Department.
A. Thirty-one (31) Air-Pax X3 Pro SCBA harnesses valued at \$181,815.53 total.
B. Seventy (70) Scott 45 minute Carbon Fiber Cylinders valued at \$140,000 total.
C. Thirty (30) Scott Sight Full Kits with Left Side Communications Bracket valued at \$62,000 total.
D. Fifty (50) Scott, Kevlar 4 Point Headnets with Voice Amp Bracket valued at \$21,850 total.
E. Thirty (30) Scott EPIC 3 Radio Direct Interface Voice Amplifiers, Open Bracket Configuration valued at \$19,902.27 total.
F. One (1) 19300 Basic Small Engine Repair Tool Kit valued at \$500.
G. One (1) Life Pack AED and Component valued at \$22,000.
<ul> <li>H. One (1) 6 x LifePack 15 V4 - Cardiac Monitor and Associated Accessories valued at \$261,149.48.</li> </ul>
I. One (1) Bauer Unicus 4 13H-E3 Compressor valued at \$58,000.
J. Twenty-six (26) batteries for portable radios valued at \$3,892.99 total.
K. Thirty (30) Motorola APX 8000H All Band Portable Radios Model 3.5 valued at \$257,260.83 total.

1	<b>APPENDIX H (continued)</b>
2	City of Manhattan Beach, California Fire Department (El Segundo Refinery) (continued)
3	L. One (1) Emergency Utility Vehicle Ford F250 Super Duty +
4	Electrical/Communications/Lighting Upgrades valued at \$83,187.15.
5	M. One (1) Polaris Emergency Response vehicle valued at \$50,614.27.
6	N. One (1) Matrice 210 Drone valued at \$9,307.50.
7	O. One (1) Zenmuse xt 640X512 thermal camera valued at \$10,950.
8	TOTAL EQUIPMENT COST FOR THE CITY OF MANHATTAN BEACH FIRE
9	DEPARTMENT: Approximately \$1,182,430.02
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	CONSENT DECREE

1	APPENDIX H (continued)		
2	3. Description of Project City of El Segundo, California Fire Department		
3	Purchase of emergency response equipment to be owned and used by the City of El Segundo Fin		
4	Department.		
5	Scheduling:		
6 7 8	CUSA intends to order the equipment described below for the City of El Segundo Fire Department within one hundred eighty (180) Days following the Effective Date. Dependent on supplier capabilities, CUSA expects delivery within a reasonable time after the orders are placed. The SEP will be considered complete when each piece of equipment described below, or substantially similar equipment in the event the equipment listed below is not available, is		
9 10 11	delivered to the City of El Segundo Fire Department. If necessary, substantially similar equipment will be purchased by CUSA after consultation with the City of El Segundo Fire Department.		
11	A. Forty-five (45) Lions/Janesville CVBM-K7 Natural PBI Max V-Force Turnout Coats in various sizes valued at \$63,000 total.		
13 14	B. Forty-five (45) Lions/Janesville PVFM-K7 Natural PBI Max V-Force Belted Turnout Pants in various sizes valued at \$45,000 total.		
15	C. Forty-five (45) Phenix Helmets, NFPA 1500-2007 GR Yellow valued at \$13,500 total.		
16 17	D. Forty-five (45) Sam Brown 6" LA Style Leather Shields drilled for Phenix Helmet valued at \$3,150 total.		
18 19	<ul> <li>E. Forty-five (45) Pro-tech Model Titan Short Cuff Structural Gloves in various sizes valued at \$3,150 total.</li> </ul>		
20	F. Forty-five (45) Majestic Pac III / C6 Carbon Hoods valued at \$3,150 total.		
21 22	G. Forty-five (45) Thorogood 14" power HV Leather Structural Bunker Boots in various sizes valued at \$22,500 total.		
23 24	H. One (1) Forward Looking Infrared FLIR E4 @ - Infrared Camera with MSX 4,800 pixel detector valued at \$2,000.		
25	I. One (1) Res-Q-Jack Auto X 2 Strut Kit, 2 point standard kit valued at \$6,500.		
26 27	J. One (1) 2019 Ford F-250 Super duty XL Crew Cab with custom specifications valued at \$85,000.		
28			
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TOTAL EQUIPMENT COST FOR THE CITY OF EL SEGUNDO FIRE
DEPARTMENT: Approximately \$246,950

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2	<b>APPENDIX H</b> (continued)
3	4. Description of Project Department of Emergency Management for the City and
4	4. Description of Project - Department of Emergency Management for the City and County of Honolulu, Hawaii (Kapolei Refinery)
5 6	Purchase of emergency response equipment to be owned and used by the Department of Emergency Management for the City and County of Honolulu, Hawaii.
7	Scheduling:
8	
9	CUSA intends to order the equipment described below for the Department of Emergency Management for the City and County of Honolulu within one hundred eighty (180) Days
10	following the Effective Date. Dependent on supplier capabilities, CUSA expects delivery within a reasonable time after the orders are placed. The SEP will be considered complete when each
11	piece of equipment described below, or substantially similar equipment in the event the equipment listed below is not available, is delivered to the Department of Emergency
12	Management for the City and County of Honolulu. If necessary, substantially similar equipment
13	will be purchased by CUSA after consultation with the Department of Emergency Management for the City and County of Honolulu.
14	A. Thirty-two (32) Iridium 9555 satellite phones valued at \$48,115.86 total.
15	A. Thirty-two $(52)$ indium 9555 saterine profiles valued at \$48,115.80 total.
16	B. Forty-seven (47) personal radioactivity detectors valued at \$45,120 total.
17	C. Forty (40) SCBA 60 minute Carbon Fiber Cylinders, valued at \$80,000 total.
18	D. Twenty (20) SKED Basic Rescue Systems with cobra buckles valued at \$17,500 total.
19 20	E. Ninety-one (91) Ferno scoop backboards valued at \$109,200 total.
20 21	F. Five hundred (500) CMC Rescue webbings valued at \$270 total.
21	TOTAL EQUIPMENT COST FOR THE DEPARTMENT OF EMERGENCY SERVICES
23	FOR THE CITY AND COUNTY OF HONOLULU: Approximately \$300,205.86
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	CONSENT DECREE

1	<b>APPENDIX H</b> (continued)
2	5. Description of Project Jackson County Office of Emergency Services (Pascagoula Refinery)
3	Purchase of emergency response equipment to be owned and used by the Jackson County Office
4	of Emergency Services.
5 6	Scheduling:
7	CUSA intends to order the equipment described below for the Jackson County Office of
8	Emergency Services within one hundred eighty (180) Days following the Effective Date. Dependent on supplier capabilities, CUSA expects delivery within a reasonable time after the
9	orders are placed. The SEP will be considered complete when each piece of equipment described below, or substantially similar equipment in the event the equipment listed below is
10	not available, is delivered to the Jackson County Office of Emergency Services. If necessary, substantially similar equipment will be purchased by CUSA after consultation with the Jackson
11	County Office of Emergency Services.
12	A. Two (2) red 1500 gpm fire trucks with a 20 to 40 gallon foam cell with a 2 stage Hale pump
13	including all NFPA equipment for a Class A pumper with custom specifications valued at \$1,127,223 total.
14	B. One (1) air/light truck with custom specifications valued at \$442,362.
15	
16 17	C. Four (4) red Dodge 1500 crew cab Special Service Vehicles with 4-wheel drive valued at \$240,000 total.
18	D. One (1) silver Dodge 1500 crew cab Special Service Vehicle with 4-wheel drive valued at \$60,000.
19	E. Three (3) Rescue One 1673-X2 Connector Boats equipped with dive platform, control
20	console, Rescue One Pro Power Outboard Motor, Light Rack, Fire boat fire pump and Night
21	vision package and three (3) 1673-SS Transport Trailers valued at \$144,000 total.
22	F. Twenty (20) 45 minute Scott Air Pak 75 4500PSI self-contained breathing apparatus valued
23	at \$110,000 total.
24	G. Forty (40) spare 45 minute bottles valued at \$80,000 total.
25	H. Ten (10) Scott Safety 4-strap face masks for Air Pak 75 self-contained breathing apparatus valued at \$20,000 total.
26	
27	I. One (1) 4x125 Night Scan XL 200 with handheld control valued at \$25,000.
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1	<b>APPENDIX H</b> (continued)
2	Jackson County Office of Emergency Services (Pascagoula Refinery) (continued)
3 4	J. Four (4) Yuneec H520 Drone bundles for site reconnaissance including weatherproofing, valued at \$30,000 total.
5 6	K. Sixteen (16) H520 5250mAh 4s/15.2V (79.8Wh) Lithium Polymer batteries for Yuneec drones valued at \$3,360 total.
7	<ul> <li>Four (4) Industrial H520 SC4000-4H Balancing Smart Chargers for Yuneec drones valued at \$360 total.</li> </ul>
8 9	M. Twelve (12) mobile 800 Motorola radios with digital and analog capability valued at \$70,000 total.
10	N. Fifteen (15) Active Shooter Event Casualty Response Kits valued at \$6,000 total.
11 12	O. One (1) Standard Decontamination Shower System valued at \$4,000.
13	P. Four (4) Complete Darley Flow Test Kits for hydrants and fire pumps valued at \$4,800 total.
14	Q. Four (4) Apparatus Flow Test Kits valued at \$6,000 total.
15	R. Six (6) Pro/Pak Foam Systems valued at \$9,000 total.
16	S. Fifteen (15) MV Fire/Rescue Crash Kits valued at \$12,000 total.
17 18	T. Two (2) Air Hammer Super-Duty Rescue Kits valued at \$5,600 total.
19	U. Four (4) Extricator Forcible Entry Kits valued at \$24,000 total.
20	V. Twenty-five (25) Vertex Vented Rescue Helmets valued at \$3,750 total.
21	W. Three (3) Telescoping Aluminum Support Kits, combined BC028 and BL623 kits valued at
22 22	\$14,100 total.
23	X. Twenty (20) Universal Swift Water Rescue Vests valued at \$6,200 total.
24 25	Y. Three (3) CMC Rescue Rope Team Kits valued at \$22,500 total.
25 26	Z. Three (3) SKED Basic Rescue Systems valued at \$2,160 total.
27	AA. Three (3) SKED-EVAC Tripods valued at \$5,700 total.
28	AB. Three (3) Rescue Kit 1 with Power Talk Boxes valued at \$30,000 total.
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1 ADDENDIV II (continued)	
APPENDIX H (continued)	
2 Jackson County Office of Emergency Services (Pascagoula Refi 3	nery) (continued)
4 AC. Ten (10) Hotstick Voltage Detectors valued at \$4,150 total.	
5 AD. Eight (8) Pelican Remote Area Lighting Systems valued at \$16,000	total.
6 AE. One (1) Bauer Complete Compressor Air System-AFG Package val	ued at \$60,000.
AF. Four (4) GasAlertMicroClip 4 Gas Detectors valued at \$2,600 total.	
<ul> <li>8</li> <li>9</li> <li>AG. Four (4) Quad Gas Calibration kits for the 4 gas GasAlertMicroClip \$800 total.</li> </ul>	Detectors valued at
<ul> <li>AH. Four (4) Calibration Gas Regulator for the 4 gas GasAlertMicroClip \$800 total.</li> </ul>	Detectors valued at
12 AI. Four (4) Micro Dock II GasAlertMicroClip Docking Stations value	d at \$2,400 total.
AJ. Four (4) Sensit Gold G2 Series 4 gas detectors with pumps valued a	t \$8,800 total.
AK. Four (4) calibration kits for the Sensit Gold G2 Series 4 gas detecto	r valued at \$2,600 total.
AL. One (1) Kumatsu PC210LC-10 SLF Excavator trackhoe valued at \$	180,000.
17 TOTAL EQUIPMENT COST FOR THE JACKSON COUNTY OFF	ICE OF
18         EMERGENCY SERVICES: Approximately \$2,786,265	
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1	<b>APPENDIX H</b> (continued)
2	6. Description of Project Mississippi Department of Environmental Quality (Pascagoula Refinery)
3	(rascagoula Keimery)
4	Purchase of emergency response equipment to be owned and used by the Mississippi Department of Environmental Quality ("MDEQ").
5	Scheduling:
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7	CUSA intends to order the equipment described below for the MDEQ within one hundred eighty (180) Days following the Effective Date. Dependent on supplier capabilities, CUSA expects delivery within a reasonable time after the orders are placed. The SEP will be considered complete when each piece of equipment described below, or substantially similar equipment in
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9	the event the equipment listed below is not available, is delivered to the MDEQ. If necessary,
10	substantially similar equipment will be purchased by CUSA after consultation with the MDEQ.
11	A. Two (2) 1 Ton 4WD Emergency Response trucks (Ford F350 XLT Diesel with custom
12	specifications) valued at \$150,000 total.
13	B. Two (2) 4WD Emergency Response trucks (Ford F150 XL SuperCab with 4WD) valued at \$84,000 total.
14	C. One (1) 2WD Emergency Response truck (Ford F-150 XL SuperCab with 2WD) valued at
15	\$37,000.
16	D. Four (4) iPads to fly response drone and have data availability to responders during
17	emergencies (Apple - iPad Pro 12.9-inch with Wi-Fi + Cellular - 256 GB) valued at \$4,400
18	total.
19	E. One (1) Honda Pioneer 700 Deluxe UTV for statewide responses valued at \$16,000.
20	F. One (1) Honda Pioneer 700-4 Deluxe UTVs for statewide responses valued at \$20,000.
21	G. One (1) Tandem axle trailer for hauling UTV (2018 Big Tex 45SS-16 with Tailgate) valued
22	at \$2,500.
23	TOTAL EQUIPMENT COST FOR THE MDEQ: Approximately \$313,900
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United States of America and the State of Mississippi v. Chevron U.S.A. Inc. (N.D. Cal.)

1	APPENDIX H (continued)
2 3	7. Description of Project South Davis Metro Fire Service Area (Salt Lake City Refinery)
4 5	Purchase of emergency response equipment to be owned and used by the South Davis Metro Fire Service Area.
6	Scheduling:
7 8 9 10 11	CUSA intends to order the equipment described below for the South Davis Metro Fire Service Area within one hundred eighty (180) Days following the Effective Date. Dependent on supplier capabilities, CUSA expects delivery within a reasonable time after the orders are placed. The SEP will be considered complete when each piece of equipment described below, or substantially similar equipment in the event the equipment listed below is not available, is delivered to the South Davis Metro Fire Service Area. If necessary, substantially similar equipment will be purchased by CUSA after consultation with the South Davis Metro Fire Service Area.
13	A. One (1) Weatherpak MTR Surface Atmospheric Monitoring Station valued at \$20,404.47.
14 15	B. One (1) 2019 Peterbuilt 337 26'-28' diesel-powered box truck with hydraulic lift gate valued at \$112,000.
16	C. One (1) custom shelving unit for box truck valued at \$5,500.
17	D. One (1) Telescoping pole and retrieval hook attachment valued at \$137.
18	E. Six (6) Hydrofluoric Acid Neutralizing Loose Absorbent kits valued at \$570 total.
19 20	F. Six (6) Spill-X-S Solvent Adsorbent kits valued at \$3,180 total.
20	G. Six (6) Spill-X-C Caustic-Neutralizing Adsorbent kits valued at \$2,880 total.
22	H. One (1) Build-A-Berm Barrier Kit valued at \$760.
23	I. Twelve (12) HAZMAX Regular Steel Toe Boots (various sizes) valued at \$1,800 total.
24 25	J. Three (3) Safe N' Clean <sup>TM</sup> SplashGuard Level D Coveralls (various sizes) valued at \$690 total.
26	K. Six (6) Spill-X-A Acid-Neutralizing Adsorbent kits valued at \$1,920 total.
27 28	L. Four (4) Coarse Bristle PRO-SWEEP <sup>TM</sup> Broom Head 24" and handles valued at \$240 total.
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	APPENDIX H (continued)
	South Davis Metro Fire Service Area (Salt Lake City Refinery) (continued)
M. Fo	our (4) Non-sparking shovels valued at \$300 total.
N. O	ne (1) DrainBlocker Drain Cover and carrying bag valued at \$575.
O. Ei	ght (8) cases of PR40 All-Purpose Wipers valued at \$880 total.
P. Fo	our (4) HazMat Mat Pads valued at \$480 total.
Q. Ei	ght (8) Oil-Only Absorbent Mat Pad in Dispenser Boxes valued at \$600 total.
R. Te	en (10) Oil-Only Absorbent Booms valued at \$1,250 total.
S. El	even (11) EconoMax Booms valued at \$6,600 total.
T. O	ne hundred and eight (108) Lite-Dri Loose Absorbent kits valued at \$2,160 total.
U. Fo	our (4) Simplex <sup>TM</sup> Booms valued at \$4,000 total.
V. O	ne (1) pallet truck valued at \$375.
W. O	ne (1) stowaway platform valued at \$360.
X. Fo	our (4) Light Tower LED M18 Rocket Charger Kits valued at \$2,260 total.
Y. O	ne (1) T-Post Driver valued at \$55.
Z. Tv	venty (20) 5' T-Posts valued at \$140 total.
AA.	Ten (10) Vista Elite Paddle Vest personal flotation devices valued at \$800 total.
AB.	Four (4) Carlisle Econ T-Grip Canoe Paddles 48" Black valued at \$120 total.
AC.	One (1) Lowe L1032 Jon Boat valued at \$700.
AD.	One (1) Thermo Scientific Gemini Handheld Analyzer valued at \$106,322.85.
	AL EQUIPMENT COST FOR THE SOUTH DAVIS METRO FIRE SERVICE A: Approximately \$278,059.32
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1	<b>APPENDIX H</b> (continued)			
2	8. Description of Project – Salt Lake City Fire Department			
3	Purchase of emergency response equipment to be owned and used by the Salt Lake City Fire			
4	Department.			
5	Scheduling:			
6	CUSA intends to order the equipment described below for the Salt Lake City Fire Department			
7	within one hundred eighty (180) Days following the Effective Date. Dependent on supplier capabilities, CUSA expects delivery within a reasonable time after the orders are placed. The SEP will be considered complete when each piece of equipment described below, or substantially similar equipment in the event the equipment listed below is not available, is			
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9 10	delivered to the Salt Lake City Fire Department. If necessary, substantially similar equipment will be purchased by CUSA after consultation with the Salt Lake City Fire Department.			
11	A. One (1) Thermo Fisher TruDefender FTXi Handheld FTIR for chemical identification with			
12	three year warranty and service plan valued at \$69,500.			
13 14	B. One (1) Thermo Fisher FirstDefender RMS Handheld Chemical Identification with three year warranty and service plan valued at \$65,000.			
14	C. Eight (8) DuPont TK Tykem 10000 1991-1994 certified level A suits valued at \$14,400 total.			
16	D. One (1) Smith Detection LCD 3.3 chemical warfare agent and toxic industrial chemical detector valued at \$10,000.			
17 18	<ul> <li>E. Two (2) Strategic Response Solutions Enhanced Decontamination Systems valued at \$8,869.21 total.</li> </ul>			
19	F. Two (2) Strategic Response Solutions Synthetic Opioid decon modules valued at \$3,411.73			
20 total.	total.			
21	G. One (1) Kelso emergency rail response kit valued at \$16,000.			
22	H. One (1) Tanker tourniquet spill 911 valued at \$868.32.			
23 24	I. One (1) Magrite patch system MagPatch 6 valued at \$10,567.65.			
25	J. One (1) Chlorine Institute Cylinder Emergency Kit A valued at \$2,741.32.			
26	K. One (1) Chlorine Institute Cylinder Emergency Kit B valued at \$2,792.27.			
27	L. Two (2) DuPont Universal Pressure Test kits valued at \$4,339.92 total.			
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1	APPENDIX H (continued)
1 2	Salt Lake City Fire Department (continued)
3	M. One (1) Indian Springs Ammonia Cylinder Emergency Kit-NH valued at \$2,872.20.
4	N. Two (2) Class D 30lb. extinguishers valued at \$2,000 total.
5	O. Two (2) Purple K 20-30lb. extinguishers valued at \$1,800 total.
6 7	P. One (1) Hazcat kit 2.0 resupply valued at \$1,800.
8	Q. Ten (10) PhaseCore XPC Cooling Vests valued at \$5,000 total.
9	R. Two (2) C03-0910-000 RAE Systems Gamma Radiation Sensors valued at \$2,068.98 total.
10	S. Forty (40) Flash approved coveralls (various sizes) valued at \$8,000 total.
11	TOTAL EQUIPMENT COST FOR THE SALT LAKE CITY FIRE DEPARTMENT:
12 13	Approximately \$232,031.60
14	<b>GRAND TOTAL SEP EQUIPMENT COST: Approximately \$10,000,000</b> .
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