

STATE OF MISSISSIPPI AIR POLLUTION CONTROL PERMIT

TO CONSTRUCT AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

Chevron USA Inc.
Chevron Products Company, Pascagoula Refinery
250 Industrial Road
Pascagoula, Mississippi
Jackson County

“ISO II Reactor Replacement Project”

has been granted permission to construct air emissions equipment to comply with the emission limitations, monitoring requirements and other conditions set forth herein. This permit is issued in accordance with the provisions of the Mississippi Air and Water Pollution Control Law (Section 49-17-1 et. seq., Mississippi Code of 1972), and the regulations and standards adopted and promulgated thereunder.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD



AUTHORIZED SIGNATURE

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Issued: APR 11 2017

Permit No.: 1280-00058

Part I.

A. GENERAL CONDITIONS

1. This permit is for air pollution control purposes only. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.1.D.)
2. Any activities not identified in the application are not authorized by this permit. (Ref.: Miss. Code Ann. 49-17-29 1.b)
3. The knowing submittal of a permit application with false information may serve as the basis for the Permit Board to void the permit issued pursuant thereto or subject the applicant to penalties for operating without a valid permit pursuant to State Law. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(5).)
4. It is the responsibility of the applicant/permittee to obtain all other approvals, permits, clearances, easements, agreements, etc., which may be required including, but not limited to, all required local government zoning approvals or permits. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.1.D(6).)
5. The issuance of a permit does not release the permittee from liability for constructing or operating air emissions equipment in violation of any applicable statute, rule, or regulation of state or federal environmental authorities. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(7).)
6. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit, unless halting or reducing activity would create an imminent and substantial endangerment threatening the public health and safety of the lives and property of the people of this state. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(15)(a).)
7. The permit and/or any part thereof may be modified, revoked, reopened, and reissued, or terminated for cause. Sufficient cause for a permit to be reopened shall exist when an air emissions stationary source becomes subject to Title V. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(15)(b).)
8. The permit does not convey any property rights of any sort, or any exclusive privilege. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(15)(c).)
9. The permittee shall furnish to the DEQ within a reasonable time any information the DEQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the DEQ copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee shall furnish such records to the DEQ along with a claim of confidentiality. The permittee may furnish such

records directly to the Administrator along with a claim of confidentiality. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(15)(d).)

10. Design and Construction Requirements: The stationary source shall be designed and constructed so as to operate without causing a violation of an Applicable Rules and Regulations, without interfering with the attainment and maintenance of State and National Ambient Air Quality Standards, and such that the emission of air toxics does not result in an ambient concentration sufficient to adversely affect human health and well-being or unreasonably and adversely affect plant or animal life beyond the stationary source boundaries. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.A.)
11. Solids Removal: The necessary facilities shall be constructed so that solids removed in the course of control of air emissions may be disposed of in a manner such as to prevent the solids from becoming windborne and to prevent the materials from entering State waters without the proper environmental permits. (Ref.: Miss. Code Ann. 49-17-29)
12. Diversion and Bypass of Air Pollution Controls: The air pollution control facilities shall be constructed such that diversion from or bypass of collection and control facilities is not needed except as provided for in 11 Miss. Admin. Code Pt. 2, R. 1.10., "Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants", Section 10. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.10.)
13. Fugitive Dust Emissions from Construction Activities: The construction of the stationary source shall be performed in such a manner so as to reduce fugitive dust emissions from construction activities to a minimum. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.A(4).)
14. Right of Entry: The permittee shall allow the Mississippi Department of Environmental Quality Office of Pollution Control and the Mississippi Environmental Quality Permit Board and/or their representatives upon presentation of credentials:
 - a) To enter upon the permittee's premises where an air emission source is located or in which any records are required to be kept under the terms and conditions of this permit; and
 - b) At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any air emissions. (Ref.: Miss. Code Ann. 49-17-21)
15. Permit Modification or Revocation: After notice and opportunity for a hearing, the Permit Board may modify the permit or revoke it in whole or in part for good cause shown including, but not limited to:
 - a) Persistent violation of any of the terms or conditions of this permit;

- b) Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;
or
- c) A change in federal, state, or local laws or regulations that require either a temporary or permanent reduction or elimination of previously authorized air emission.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.C.)

16. Public Record and Confidential Information: Except for data determined to be confidential under the Mississippi Air & Water Pollution Control Law, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Mississippi Department of Environmental Quality, Office of Pollution Control. (Ref.: Miss. Code Ann. 49-17-39)
17. Permit Transfer: This permit shall not be transferred except upon approval of the Permit Board. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.16.B)
18. Severability: The provisions of this permit are severable. If any provision of the permit, or the application of any provision of the permit to any circumstances, is challenged or held invalid, the validity of the remaining permit provisions and/or portions thereof or their application to other persons or sets of circumstances, shall not be affected thereby. (Ref. 11 Miss. Admin. Code Pt. 2, R. 2.1.D(7).)
19. Permit Expiration: The permit to construct will expire if construction does not begin within eighteen (18) months from the date of issuance or if construction is suspended for eighteen (18) months or more. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.C(1).)
20. Certification of Construction: A new stationary source issued a Permit to Construct cannot begin operation until certification of construction by the permittee. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(3).)
21. Beginning Operation: Except as prohibited in Part I, Condition 24 of this permit, after certification of construction by the permittee, the Permit to Construct shall be deemed to satisfy the requirement for a permit to operate until the date the application for issuance or modification of the Title V Permit or the application for issuance or modification of the State Permit to Operate, whichever is applicable, is due. This provision is not applicable to a source excluded from the requirement for a permit to operate as provided by 11 Miss. Admin. Code Pt. 2, R. 2.13.G. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(4).)
22. Application for a Permit to Operate: Except as otherwise specified in Part I, Condition 24 of this permit, the application for issuance or modification of the State Permit to Operate or the Title V Permit, whichever is applicable, is due twelve (12) months after beginning operation or such earlier date or time as specified in the Permit to Construct. The Permit Board may specify an earlier date or time for submittal of the application. Beginning operation will be assumed to occur upon certification of construction, unless the permittee specifies differently in writing. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(5).)

23. Operating Under a Permit to Construct: Except as otherwise specified in Part I, Condition 24 of this permit, upon submittal of a timely and complete application for issuance or modification of a State Permit to Operate or a Title V Permit, whichever is applicable, the applicant may continue to operate under the terms and conditions of the Permit to Construct and in compliance with the submitted application until the Permit Board issues, modifies, or denies the Permit to Operate. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(6).)
24. Application Requirements for a Permit to Operate for Moderate Modifications: For moderate modifications that require contemporaneous enforceable emissions reductions from more than one emission point in order to “net” out of PSD/NSR, the applicable Title V Permit to Operate or State Permit to Operate must be modified prior to beginning operation of the modified facilities. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(7).)
25. Compliance Testing: Regarding compliance testing:
- a) The results of any emissions sampling and analysis shall be expressed both in units consistent with the standards set forth in any Applicable Rules and Regulations or this permit and in units of mass per time.
 - b) Compliance testing will be performed at the expense of the permittee.
 - c) Each emission sampling and analysis report shall include but not be limited to the following:
 - (1) detailed description of testing procedures;
 - (2) sample calculation(s);
 - (3) results; and
 - (4) comparison of results to all Applicable Rules and Regulations and to emission limitations in the permit.
- (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.6.B(3), (4), and (6).)

B. GENERAL NOTIFICATION REQUIREMENTS

- 1. Within fifteen (15) days of beginning actual construction, the permittee must notify DEQ in writing that construction has begun. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.C(2).)
- 2. The permittee must notify DEQ in writing when construction does not begin within eighteen (18) months of issuance or if construction is suspended for eighteen (18) months or more. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.C(3).)
- 3. Upon the completion of construction or installation of an approved stationary source or modification, the applicant shall notify the Permit Board that construction or installation was

performed in accordance with the approved plans and specifications on file with the Permit Board. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(1).)

4. The Permit Board shall be promptly notified in writing of any change in construction from the previously approved plans and specifications or permit. If the Permit Board determines the changes are substantial, it may require the submission of a new application to construct with “as built” plans and specifications. Notwithstanding any provision herein to the contrary, the acceptance of an “as built” application shall not constitute a waiver of the right to seek compliance penalties pursuant to State Law. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(2).)

PART II

**SPECIFIC EMISSION LIMITATIONS, MONITORING,
RECORDKEEPING, AND REPORTING**

PLANT 32 – EFFLUENT TREATING SYSTEM, UTILITIES

FIREWATER PUMPS

Beginning upon certification of construction for the Iso II Reactor Replacement Project, the permittee shall comply with the following work practice standards for the existing Firewater Pumps listed below.

Emission Point (Chevron ID)	Description
AQ-32201A (P-32201A)	North Side Firewater Pump, diesel engine driven, 422 hp
AQ-32201B (P-32201B)	North Side Firewater Pump, diesel engine driven, 422 hp
AQ-32202A (P-32202A)	North Side Firewater Pump, diesel engine driven, 422 hp
AQ-32202B (P-32202B)	North Side Firewater Pump, diesel engine driven, 422 hp
AQ-32203A (P-32203A)	South Side Firewater Pump, diesel engine driven, 422 hp
AQ-32203B (P-32203B)	South Side Firewater Pump, diesel engine driven, 422 hp
AQ-32204A (P-32204A)	South Side Firewater Pump, diesel engine driven, 422 hp
AQ-32204B (P-32204B)	South Side Firewater Pump, diesel engine driven, 422 hp

WORK PRACTICE STANDARDS

For the firewater pumps listed above, the permittee shall be subject to the following requirements regarding maintenance and readiness testing:

- a) Testing on the pump engines shall not be conducted simultaneously (or overlap).
- b) Weekly testing shall be conducted between the hours of 10:00 a.m. and 4:00 p.m.

NSPS SUBPART IIII

The firewater pumps listed above are subject to and shall comply with the applicable requirements of the New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines (40 CFR Part 60, Subpart IIII) and the General Provisions (40 CFR 60, Subpart A). (Ref.: 40 CFR 60.4200(a)(2)(ii))

The permittee shall continue to comply with those requirements outlined in the most recent version of the Title V Operating Permit.

RECORDKEEPING REQUIREMENTS

In addition to the requirements of NSPS Subpart IIII, the permittee shall keep records of the date and time each engine is tested for maintenance and readiness. Any time that the engines are tested simultaneously or outside the hours of 10:00 a.m. to 4:00 p.m. shall be noted as a deviation from the permit.

PLANT 33 – COKE CONVEYOR & STORAGE

EMISSION POINT AR-003

Beginning upon certification of construction for the Iso II Reactor Replacement Project, the permittee shall comply with the following work practice standards for Emission Point AR-003, fugitive dust emissions coke transportation via truck.

WORK PRACTICE STANDARDS

Particulate Matter (PM/PM₁₀/PM_{2.5}): For Emission Point AR-003, the permittee shall truck no more than 243,930 tons of coke to coke storage in each calendar year. Truck haul beds shall be covered with a lid or tarp after loading. Truck speed shall not exceed a speed limit of 20 mph or the posted speed limit, if lower.

RECORDKEEPING REQUIREMENTS

Particulate Matter (PM/PM₁₀/PM_{2.5}): The permittee shall record and maintain a log (hard copy or electronic) of the date and tons of coke trucked to the storage area. The total tons of coke transported to storage via truck shall be calculated each calendar year to demonstrate compliance with the permit limit.

PLANT 84 – VACUUM DISTILLATION UNIT (VDU)

EMISSION POINT BR-003

Beginning upon certification of construction for the Iso II Reactor Replacement Project, the permittee shall comply with the following requirements for Emission Point BR-003, Plant 84 refinery fuel gas system equipment leaks.

EQUIPMENT LEAK DEFINITION

For equipment leak components in VOC service (as defined in §60.481a) in the Plant 84 refinery fuel gas system, the permittee shall use the following internal leak definition for valves in light liquid or gas/vapor service (as defined in §60.485a(e)), unless specified more stringent in an applicable federal standard: No greater than 500 ppmv VOC for each valve and pressure relief device.

MONITORING REQUIREMENTS

In addition to any applicable federal requirements, the permittee shall monitor the components specified above in light liquid or gas/vapor service for leaks once per quarter using an approved gas analyzer conforming to the requirements of §60.485a(a)-(b). (Those valves meeting the definition of inaccessible or unsafe-to-monitor, as defined in §60.482-7a(g), or any equipment designated for no detectable emissions are excluded from this requirement.)

- (1) When a leak is detected, it shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected, except as provided in §60.482-9a.
- (2) A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.
- (3) First attempts at repair include, but are not limited to, the following best practices where practicable: Tightening of bonnet bolts; Replacement of bonnet bolts; Tightening of packing gland nuts; and Injection of lubricant into lubricated packing.

If the repair would require a unit shutdown, the repair may be delayed until a scheduled shutdown is identified for such repair. Repaired components shall be re-monitored within 15 days of being placed back into service.

For any equipment designated for no detectable emissions, the permittee shall conduct a compliance test in accordance with §60.485a(c).

RECORDKEEPING & REPORTING REQUIREMENTS

For the monitoring specified above, the permittee shall record and report the information required by the existing refinery-wide Leak Detection and Repair (LDAR) program, as specified in Condition 5.AC.3 of the Title V Operating Permit issued October 1, 2009.

PLANT 5171 – PASCAGOULA MARKETING TERMINAL (PMT)

EMISSION POINT CG-004

Beginning upon certification of construction for the Iso II Reactor Replacement Project, the permittee shall comply with the following work practice standards for Emission Point CG-004, fugitive dust emissions from roadways in the PMT.

WORK PRACTICE STANDARDS

Particulate Matter (PM/PM₁₀/PM_{2.5}): For Emission Point CG-004, the permittee shall ensure that all roadways in Plant 5171 are paved and maintained to minimize fugitive dust emissions. The permittee shall sweep the roads twice per week using a broom street sweeper.

RECORDKEEPING REQUIREMENTS

Particulate Matter (PM/PM₁₀/PM_{2.5}): The permittee shall record and maintain a log (hard copy or electronic) of the date and time street sweeping occurred and shall also note the personnel who conducted the street sweeping. Any roads within the PMT that were not swept and the reason they were not swept shall be recorded.

ENHANCED EQUIPMENT LEAK MONITORING

Beginning upon certification of construction for the Iso II Reactor Replacement Project, the permittee shall comply with the following requirements for the following electric pumps and compressors:

Emission Point (Source ID)	Plant #	Equipment #	Description
AH-001	16	P-1619	C-1607 DEBUTANIZER O/H REFLUX PUMP
AH-001	16	P-1631	LPG TREATER PUMP
AH-001	16	P-1631A	LPG TREATER PUMP
AH-001	16	P-1650	DEBUTANIZER O/H REFLUX PUMP
AH-001	16	P-1650A	DEBUTANIZER O/H REFLUX PUMP
AH-001	16	P-1619	C-1607 DEBUTANIZER O/H REFLUX PUMP
AH-001	16	P-1631	LPG TREATER PUMP
AI-001	17	P-1730	D-1730 DEISOBUTANIZER REFLUX PUMP
AI-001	17	P-1730A	D-1730 DEISOBUTANIZER REFLUX PUMP
AI-001	17	P-1731	DEISOBUTANIZER NET OVERHEAD
AI-001	17	P-1731A	DEISOBUTANIZER NET OVERHEAD
AI-001	17	P-1740	D-1740 DEPROPANIZER REFLUX PUMP
AI-001	17	P-1740A	D-1740 DEPROPANIZER REFLUX PUMP
AI-001	17	P-1750	D-1750 DEBUTANIZER REFLUX PUMP
AI-001	17	P-1750A	D-1750 DEBUTANIZER REFLUX PUMP
AK-001	20	K-2051A	C4 VAPOR COMPRESSOR
AK-001	20	K-2051B	C4 VAPOR COMPRESSOR
AK-001	20	K-2051C	C4 VAPOR COMPRESSOR
AK-001	20	K-2070	DEETHANIZER FEED COMPRESSOR
AX-001	40	P-4010	DEETHANIZER REFLUX PUMP
AX-001	40	P-4010A	DEETHANIZER REFLUX PUMP
AX-001	40	P-4020	DEPROPANIZER REFLUX/ DISTILLATE PUMP
AX-001	40	P-4020A	DEPROPANIZER REFLUX/ DISTILLATE PUMP
AX-001	40	P-4030	DEBUTANIZER REFLUX/ DISTILLATE PUMP
AX-001	40	P-4030A	DEBUTANIZER REFLUX/ DISTILLATE PUMP
BJ-001	66	P-6610	D-6610 DEETHANIZER FEED PUMP
BJ-001	66	P-6610A	D-6610 DEETHANIZER FEED PUMP
BJ-001	66	P-6620	D-6620 DEBUT REFLUX O/H PUMP
BJ-001	66	P-6620A	D-6620 DEBUT REFLUX O/H PUMP
BJ-001	66	P-6630	D-6630 DEPROPANIZER O/H PUMP
BJ-001	66	P-6630A	D-6630 DEPROPANIZER O/H PUMP
BJ-001	66	P-6631	BUTANE PUMP
BJ-001	66	P-6631A	BUTANE PUMP
BJ-001	66	P-6640	C-6640 INTERMEDIATE RICH OIL PUMP
BJ-001	66	P-6640A	C-6640 INTERMEDIATE RICH OIL PUMP
BJ-001	66	P-6641	C-6640 RICH SPONGE OIL PUMP
BJ-001	66	P-6641A	C-6640 RICH SPONGE OIL PUMP
BP-001	81	K-8110	RECYCLE GAS COMP
BP-001	81	K-8120	RECYCLE GAS COMP

BP-001	81	K-8130	RECYCLE GAS COMP
BP-001	81	K-8181	RECYCLE GAS COMP
BU-001	87	P-8730	D-8730 DEBUT REFLUX DRUM PUMP
BU-001	87	P-8730A	D-8730 DEBUT REFLUX DRUM PUMP
BU-001	87	P-8731	DEPROPANIZER FEED PUMP
BU-001	87	P-8731A	DEPROPANIZER FEED PUMP
BU-001	87	P-8740	D-8740 DEPROPANIZER REFLUX DRUM C3 PUMP
BU-001	87	P-8740A	D-8740 DEPROPANIZER REFLUX DRUM C3 PUMP
BU-001	87	P-8750	D-8750 DEBUTANIZER REFLUX DRUM C4 PUMP
BU-001	87	P-8750A	D-8750 DEBUTANIZER REFLUX DRUM C4 PUMP

These pumps are being equipped with and shall maintain dry gas seal systems, with an inert barrier gas at higher pressure than the fluid being pumped, considered a “leakless” technology.

EQUIPMENT LEAK DEFINITION

For the above listed pumps and compressors which are in VOC service (as defined in §60.481a), the permittee shall use the following internal leak definition, unless specified more stringent in an applicable federal standard: If an instrument reading of 500 ppm above background or greater is measured, a leak is detected.

MONITORING REQUIREMENTS

In addition to any applicable federal requirements, the permittee shall monitor the pumps and compressors listed above for leaks initially upon designation, annually, and at other times requested by the Administrator using an approved gas analyzer conforming to the requirements of §60.485a(a)-(b).

Any equipment found to be leaking shall be tagged and repaired within 15 days after the leak is found. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. If the repair would require a unit shutdown, the repair may be delayed until a scheduled shutdown is identified for such repair. Repaired components shall be re-monitored within 15 days of being placed back into service.

For any equipment designated for no detectable emissions, the permittee shall conduct a compliance test in accordance with §60.485a(c).

RECORDKEEPING & REPORTING REQUIREMENTS

For the monitoring specified above, the permittee shall record and report the information required by the existing refinery-wide Leak Detection and Repair (LDAR) program, as specified in Condition 5.A.3 of the Title V Operating Permit issued October 1, 2009.

PART III – OTHER REQUIREMENTS

Records:

- 1) The permittee shall maintain on-site records of all required monitoring data and support information required by this permit for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. These records shall be made available for review upon request from DEQ personnel.

Reporting Deviations:

- 2) The permittee shall report any deviations from the permit requirements, including deviations attributable to upsets, within five (5) working days of such deviation. The report shall also include the cause of the deviation(s) and any corrective action(s) or preventive measure(s) taken. A copy of the report shall be maintained in accordance with Part III, Condition 1.

Semiannual Reports:

- 3) The permittee shall submit semiannual reports of any required monitoring by September 30 for the preceding six-month period of January 1 through June 30, and by March 31 for the preceding six-month period of July 1 through December 31. All instances of deviations from permit requirements must be clearly identified in such reports and a responsible official must certify all required reports. These reports may be included in the reports submitted per the Title V Operating Permit.

Fenceline Security:

- 4) To preclude access by the public to refinery property for purposes of defining ambient air, the permittee shall develop and maintain a security plan addressing the following, at a minimum:
 - a. Maintenance of the security fencing;
 - b. Additional security measures including patrols or cameras where there are no physical barriers (i.e., a fence or dike); and
 - c. Maintenance of signage.

This “Fenceline Security Plan” shall be developed and implemented prior to startup of the Iso II Reactor Replacement Project. The Plan shall be maintained on site and available for review by MDEQ personnel.

Projected Actual Emissions Recordkeeping for Product Loading:

- 5) For Loading Operations, including loading via pipeline, marine vessels, railcar, and truck, the permittee shall record the amount of each of the following products loaded in each calendar month: Gasoline, Jet A, Diesel, and Paraxylene. The permittee shall calculate the VOC emissions from the loading operations for each calendar month using the same basis as in the Iso II Reactor Replacement Project PSD Application. The permittee shall calculate and maintain a record of the annual VOC emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular

operations after startup of the Iso II Reactor Replacement Project. (Ref.: 40 CFR 52.21(r)(6)(iii))

- 6) The permittee shall submit a report to the DEQ if the annual emissions, in tons per year, from the projects covered by this permit, exceed the baseline actual emissions (as documented in the project application), by a significant amount for any regulated NSR pollutant, and if such emissions differ from the preconstruction projection as documented and maintained in the Iso II Reactor Replacement Project PSD Application. Such report shall be submitted to the DEQ within 60 days after the end of such year. The report shall contain the following:
 - (a) The name, address, and telephone number of the major stationary source;
 - (b) The annual emissions as calculated pursuant to §52.21(r)(6)(iii); and
 - (c) Any other information that the owner or operator wishes to include in the report (e.g., an explanation as to why the emissions differ from the preconstruction projection).

(Ref.: 40 CFR 52.21(r)(6)(v))

- 7) The permittee shall make the information required to be documented and maintained pursuant to §52.21(r)(6) available for review upon a request for inspection by DEQ or the general public pursuant to the requirements contained in §70.4(b)(3)(viii) of this chapter. (Ref.: 40 CFR 52.21(r)(7))

NO_x, PM/PM₁₀/PM_{2.5}, CO, and VOC Permit Limit Revisions:

- 8) Upon certification of construction for the Iso II Reactor Replacement Project, the permittee shall meet the emission limits established in the following table for the given pollutants. These limits shall supersede any limits established in a previous permit. Where no limit is provided, as indicated by a "--", any limit established for the pollutant in a previous permit shall continue to apply. Compliance with the ton per year (tpy) limits shall be demonstrated 12 months from certification of construction.
- 9) Initial compliance with the limits in the following table shall be demonstrated within 18 months of certification of construction for the Iso II Reactor Replacement Project. For those Emission Points equipped and required to operate and maintain a CEMS, the permittee may forego the initial demonstration of compliance required herein. Compliance for the given pollutant shall be demonstrated by stack testing using the EPA Test Methods listed below, or an alternative EPA-approved method:

Pollutant	EPA Test Method ¹
NO _x	Method 7 ²
PM	Methods 1-5
PM ₁₀ /PM _{2.5}	Method 201 or 201A and Method 202 ³
VOC	Method 25
CO	Method 10 or 10A

Stack testing shall be done with the emission unit(s) operating at or near maximum capacity. Testing for multiple emission units with common stack(s) shall be done such that it is representative of the way in which the units are limited.

For all required testing, the permittee shall submit a written test protocol at least thirty (30) days prior to the intended test date(s) to ensure that all test methods and procedures are acceptable to the DEQ. Also, the permittee shall notify the DEQ in writing at least ten (10) days prior to the intended test date(s) so that an observer may be afforded the opportunity to witness the test. A stack test report containing the results of the test shall be submitted within 60 days of completion of the required test.

¹ EPA Test Methods are those promulgated methods listed on EPA's Emissions Measurement Center. Promulgated EPA Test Methods other than those listed may be used if more appropriate as outlined in the stack test protocol.

² For turbines, the permittee shall use EPA Test Method 20 for demonstrating compliance with the NO_x limit.

³ The Permittee may use Method 5 in lieu of 201/201A for determining filterable PM. However, this result must be used in conjunction with results from Method 202 to demonstrate compliance with PM₁₀ and PM_{2.5} emission limits.

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Emission Point	Chevron Ref. ID	Heat Duty ⁴ (MMBtu/hr)	NO _x		PM/PM ₁₀ /PM _{2.5} ⁵		VOC		CO		SO ₂ ⁴
			lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr
AE-013	F-1101/ 1102		--	--	5.70	19.96	--	--	--	--	--
AF-021	F-1201/ 1301/1302	120	17.82	57.81	0.98	3.93	0.64	1.90	14.83	28.48	7.38
AF-024	F-1304		15.95	48.18	0.83	3.29	0.54	1.58	12.36	23.74	--
AF-025	F-1305	130	22.43	85.41	1.07	4.27	0.70	2.05	16.07	30.86	8.00
AF-026	F-1306	55	7.62	24.09	0.45	1.81	0.30	0.87	6.80	13.06	--
AG-041	F-1531	55	--	--	0.52	1.81	--	--	--	--	--
AG-042	F-1532		--	--	0.35	1.38	--	--	--	--	--
AG-043	F-1501/ 1502/1503		--	--	4.43	16.20	--	--	--	--	--
AH-051 ^{6,7}	F-1603		--	--	50.00	200	--	--	--	--	--
AH-052 ^{6,7}	F-1601		--	--	1.54	5.38	--	--	--	--	--
AL-104 ^{6,7}	F-2101		13.25	46.43	2.37	8.65	1.43	4.18	--	--	--
AL-105 ^{6,7}	F-2102		13.25	46.43	2.37	8.65	1.43	4.18	--	--	--
AL-106 ^{6,7}	F-2103		13.25	46.43	2.37	8.65	1.43	4.18	--	--	--
AM-111	F-2201		13.20	46.25	0.44	1.27	--	--	--	--	--
AN-752	F-2410		--	--	0.30	1.30	--	--	--	--	--
AN-753	F-2440		--	--	4.18	18.31	--	--	--	--	--
AO-004 ⁷	F-2745		6.46	18.86	0.29	1.01	--	--	--	--	--
AO-005 ⁷	F-2765		6.46	18.86	0.29	1.01	--	--	--	--	--
AS-011	F-34300		--	--	0.09	0.31	--	--	--	--	--
BB-163	F-5327A/B		8.03	26.06	1.50	5.25	--	--	--	--	--
BB-165	F-5327C		8.81	27.55	1.58	5.55	--	--	--	--	--
BB-174	F-5337C		10.86	33.98	1.95	6.85	--	--	--	--	--
BB-191	F-5337A		5.02	15.72	0.91	3.17	--	--	--	--	--

⁴ Heat Duty shown if there is a proposed change.

⁵ PM includes only the filterable portion of particulate matter. PM₁₀/PM_{2.5} includes both the filterable and condensable portions of particulate matter.

⁶ Equipped with NO_x CEMS

⁷ Equipped with CO CEMS

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Emission Point	Chevron Ref. ID	Heat Duty ⁴ (MMBtu/hr)	NO _x		PM/PM ₁₀ /PM _{2.5} ⁵		VOC		CO		SO ₂ ⁴
			lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr
BB-192	F-5337B		4.70	14.72	0.85	2.96	--	--	--	--	--
BB-193	F-5380A		7.74	24.22	0.37	1.29	--	--	4.88	--	--
BB-194	F-5380B		7.74	24.22	0.37	1.29	--	--	4.88	--	--
BB-195	F-5387		--	--	0.33	1.14	--	--	--	--	--
BE-211 ^{6,7}	F-6101/ 6102		39.60	157.68	4.95	19.71	--	--	--	--	--
BF-221	F-6210	60	9.00	31.50	0.56	1.97	0.32	0.95	7.40	--	--
BF-222	F-6230		8.25	28.91	0.52	1.81	0.30	0.87	6.80	13.06	--
BF-223 ⁵	F-6250		7.95	34.82	2.48	8.71	1.43	4.18	71.75	62.91	--
BF-224	F-6260		17.16	57.82	1.03	3.61	0.59	1.73	13.60	26.11	--
BH-231/ BH-232	F-6410/ KGT- 6410		105.0	459.9	8.88	21.80	2.04	5.96	102.56	141.68	--
BI-245	F-6531		--	--	0.42	1.48	--	--	--	--	--
BI-246	F-6532		6.11	17.83	0.335	1.22	--	--	--	--	--
BK-261	F-6701		2.40	10.51	0.38	1.31	--	--	--	--	--
BP-511	F-8110		--	--	0.61	2.14	--	--	--	--	--
BP-512	F-8120		--	--	0.61	2.14	--	--	--	--	--
BP-513	F-8130		--	--	0.61	2.14	--	--	--	--	--
BQ-521	F-8300A		--	--	1.90	6.64	--	--	--	--	--
BQ-522	F-8300B		--	--	1.90	6.64	--	--	--	--	--
BQ-523	F-8300C		--	--	1.90	6.64	--	--	--	--	--
BR-531	F-8400	330	15.0	52.56	3.09	10.84	2.67	7.81	74.44	104.36	--
BS-501	F-8510		--	--	0.51	1.79	--	--	--	--	--
BS-502	F-8560		--	--	0.75	2.63	--	--	--	--	--
BT-541	F-8620/ KGT- 8650		--	--	9.68	33.91	--	--	--	--	--
BT-542	F-8610		--	--	0.43	1.25	--	--	--	--	--
CH-003 ^{6,7}	F-7910/ 7920/ 7930/ 7940		--	--	7.97	27.92	--	--	--	--	--
CI-003 ^{6,7}	F-8007		5.28	21.02	1.32	5.26	--	--	--	--	--

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Emission Point	Chevron Ref. ID	Heat Duty ⁴ (MMBtu/hr)	NOx		PM/PM ₁₀ /PM _{2.5} ⁵		VOC		CO		SO ₂ ⁴
			lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr
CK-003 ⁶	F-8210		--	--	0.48	1.70	--	--	--	--	--
CK-004 ⁶	F-8220		--	--	0.81	2.83	--	--	--	--	--
CK-005 ⁶	F-8250		--	--	0.41	1.45	--	--	--	--	--
CK-006 ⁶	F-8280		--	--	0.66	2.30	--	--	--	--	--