DOCKETED	
Docket Number:	25-PIIRA-01
Project Title:	Refinery Resupply Requirements
TN #:	262081
Document Title:	SBX1-2 Refinery Maintenance Guidelines_SecondEdition
Description:	N/A
Filer:	TJ Singh
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	3/4/2025 9:36:45 AM
Docketed Date:	3/4/2025

CHAPTER 1:
Introduction

Under the Petroleum Industry Information Reporting Act of 1980 (PIIRA) (Public Resources Code sections 25350 et seq.), the California Energy Commission (CEC) collects data about the petroleum market that is essential for the state to develop and administer energy policies in the best interests of the state and public welfare. Senate Bill (SB) X1-2 (Stats. 2023, 1st Ex. Sess. 2023, Ch. 1) expanded the information that refiners and other petroleum market participants are required to submit to the CEC under PIIRA, including information regarding planned and unplanned maintenance events and turnarounds. Assembly Bill (AB) X2-1 (Stats. 2024, 2nd Ex. Sess. 2023-2024, Ch. 1) requires the CEC to consider the effects of refinery maintenance and inventory on the price of transportation fuels in California. AB X2-1 authorized the CEC to develop requirements for refiners to plan for resupply of lost production during planned maintenance or turnarounds, including through a report required by subdivision (m) of Section 25354. The CEC developed these *California Refinery Maintenance Reporting Guidelines* (Guidelines) pursuant to its statutory authority to implement and administer these maintenance reporting requirements.

Accurate information on refinery maintenance activity is crucial to the CEC's understanding of the petroleum market and any investigations of pricing behavior. These Guidelines are necessary to clarify the refinery planned and unplanned maintenance and turnaround requirements introduced by SB X1-2 and to implement the refinery maintenance resupply requirements authorized by AB X2-1, and thereby enhance oversight and to protect Californians from future price spikes.

These Guidelines reflects the current reporting requirements implementing SB X1-2 and AB X2-1. The CEC recognizes that it may need to be revised periodically revise these Guidelines to reflect market, regulatory, and legislative developments.

This edition of the Guidelines, referred to as the *California Refinery Maintenance Guidelines, Second Edition*, shall take effect when the CEC adopts the Guidelines in accordance with Public Resources Code Section 25354 (n) (2).

Chapter 2
Authority, Interpretation, and Reporting Requirements

These Guidelines are adopted under Public Resources Code section 25354 (n)(2), which provides that the CEC may adopt guidelines governing the maintenance-related reporting requirements set forth in Public Resources Code section 25354 (m), and pursuant to Public Resources Code section 25354(f)(3), which authorizes the CEC to require additional information to be submitted as necessary to perform its responsibilities under Chapter 4.5 of Division 15 of the Public Resources Code. These Guidelines are exempt from the Administrative Procedure Act, as specified in Chapter 3.5 (commencing with Section 11340) of Part 1 of Division 3 of Title 2 of the Government Code, as are any regulations, guidelines, or other standards adopted by the CEC pursuant to Public Resources Code section 25354 (n)(2).

Nothing in these Guidelines shall be construed to abridge the powers or authority of the CEC or any CEC-designated committee as specified in Division 15 of the Public Resources Code, commencing with Section 25000, or Division 2 of Title 20 of the California Code of Regulations, commencing with Section 1001.

Unless specified otherwise by the CEC, these Guidelines and any subsequent updates shall take effect upon adoption by the CEC at a publicly noticed business meeting following Public Resources Code section 25354 (n)(2). These Guidelines and any subsequent updates may be given retroactive effect as specified by the CEC and according to statutory authority.

Except to the extent that the terms of these Guidelines provide otherwise, the definitions in California Code of Regulations, title 20, section 1363.1, and 1363.2, and 3400 apply for the reporting requirements in this Guidelines.

Petroleum Refineries in California must report all planned and unplanned maintenance, including turnarounds, to the CEC pursuant to Public Resources Code section 25354 (m).

Chapter 3
Maintenance Reports

3.1 California Planned Refinery Maintenance Report

This report shall contain all of the information detailed below in subsections A through O. Refer to our PIIRA Forms and Instructions web page for the Planned Refinery Maintenance Report and Instructions.

Reporting Period

All Refiners shall submit Initial Planned Refinery Maintenance Reports at least 120 days before any planned maintenance or turnaround even if the planned maintenance or turnaround does not trigger the requirements of Title 20, California Code of Regulations, section 3400 et seq. If the need for planned maintenance or turnaround is identified less than 120 days prior to the scheduled event, refiners shall submit the initial report within two business days of discovering the need for planned maintenance and include all information available at that time. If any changes occur after the submission of the initial report, refiners shall submit a revised report within two business days, outlining the nature of the change in the description of planned work and updating any information fields affected by the change. Changes requiring a revised report may include, but are not limited to, securing contracts that impact inventory and supply estimates, commencing maintenance or turnaround work, delays in the receipt of repair components, and rescheduling the planned event. Refiners shall submit a Final Planned Refinery Maintenance Report with finalized dates and values to the executive director of the commission within two business days either after repairs on the units have completed or when units resume scheduled production rates, whichever occurs first.

Informational Requirements

All data fields shall be completed with valid and accurate entries. Fields should not be left blank, nor should they contain placeholder values such as "N/A." Date fields shall be entered in the MM/DD/YYY format (for example, 9/10/2024). For fields requiring numerical input, such as operational capacity, a valid number (for example, 40,000) shall be provided. For estimated values, reporters shall provide their best estimate; if no impacts are expected, reporters shall enter a value of 0 (zero).

A. A brief description of planned work.

B. The processing unit name, process unit ID, and operational capacity of individual each processing units involved, expressed in barrels per calendar day (B/CD), of each processing unit. Include any processing units that will have decreased output. For events involving multiple process units with differing schedules, refiners shall specify the halt and return-to-service dates for each process unit involved.

C. The estimated halt service date. The date that each affected processing unit stops operation or reduces to the rate necessary for maintenance to proceed. Final reports shall contain the actual halt service date.

D. The estimated return-to-service date when the affected processing unit(s) resumes at scheduled production rates. Final reports shall contain the actual return-to-service date.

E. The estimated daily decrease in output, in barrels per day (BPD), for the following of materials or substances produced by each affected processing unit., such as gasoline, diesel, or jet fuel components, expressed in barrels per day (BPD). For finalized reports, enter the actual decrease incurred during the maintenance period.

1. Gasoline. The daily decrease in production of gasoline boiling range materials, which will eventually be blended into finished gasoline products (either as is or with additional treatment).

2. Diesel. The daily decrease in production of diesel boiling range materials, which will eventually be blended into finished diesel products (either as is or with additional treatment).

3. Jet Fuel. The daily decrease in production of jet fuel boiling range materials, which will eventually be blended into finished jet fuel products (either as is or with additional treatment).

4. Other. The daily decrease in production of materials outside the boiling range of gasoline, diesel, or jet fuel, which will eventually be blended into products such as asphalt, liquified petroleum gases, or other.

F. Inventory Type — Report inventories at your refinery and held at other merchant bulk terminals under lease agreements between the refiner and the owner and operator of the terminal. Report by product type and CEC product code, which include, but are not limited to the following:

California gasoline includes:

CARBOB (Product Code 163).

CARB RFG (Product Code 164).

Non-Oxygenated CARB RFG (Product Code 162).

Non-California gasoline includes:

Arizona CBG AZRBOB (Product Code 172).

Arizona CBOB (Product Code 173).

Nevada LVBOB (Product Code 180).

Nevada CBOB (Product Code 182). 61

Other Conventional (Product Code 175).

Gasoline blending components include:

Alkylate (Product Code 320).

Iso-octane/Iso-octene (Product Code 321).

Hydrocrackate (Product Code 323).

Natural gasoline (Product Code 324).

Reformate (Product Code 325).

Toluene (Product Code 325).

Renewable naphtha (Product Code 182).

All other gasoline-blending components (Product Code 327).

Diesel fuels include:

CARB ULSD (Product Code 478).

EPA ULSD (Product Code 481).

Renewable diesel (Product Code 205).

Aviation fuels include:

Commercial jet fuel (Product Code 217).

Military jet fuels (Product Codes 221 and 222).

Sustainable aviation fuel (Product Code 181).

GF. The estimated drawdown of inventory levels of gasoline and gasoline blending components and other material or substance produced by each affected process unit that are controlled by the refiner at the refinery and at other storage locations in California during the planned maintenance event or turnaround to replace lost production. Final reports shall contain actual drawdown values totaled to the return-to-service date of affected processing unit. Volumes shall be expressed in barrels.

H. The estimated build of inventory levels of gasoline and gasoline blending components and other material or substance produced by each affected process unit that are controlled by the refiner at the refinery and at other storage locations in California in preparation for the planned maintenance event or turnaround. This shall include estimates of gasoline or gasoline blending components secured or planned to be secured through buildup of inventory from the refiner's own production, including any product transfers between refineries under the same ownership to supplement lost gasoline production or gasoline demand during the event. Final reports shall contain actual inventory build values totaled to the return-to-service date of affected process unit. Volumes shall be expressed in barrels.

IG. The estimated inventory levels of gasoline and gasoline blending components and other material or substance produced by each affected processing unit that are controlled by the refiner at the refinery and at other storage locations in California at the commencement of the planned maintenance event or turnaround and at the time of notice during the planned maintenance event or turnaround. Final reports shall contain actual inventory levels at return-to-service date of affected processing unit. Volumes shall be expressed in barrels.

JH. The anticipated in-state purchases from other market participants in California of gasoline and gasoline blend components and other material or substance produced by each affected processing unit in preparation for or during the planned maintenance event to replace lost production, inclusive of in-state purchases made as of the time of the report. For finalized reports, enter the actual barrels per day of in-state purchases. Volumes shall be expressed in BPD barrels.

KI. The anticipated out-of-state purchases from other domestic market participants of gasoline and gasoline blend components and other material or substance produced by each affected processing unit in preparation for or during the planned maintenance event to replace lost production, inclusive of out-of-state purchases made as of the time of the report. For finalized reports, enter the actual barrels per day of out-of-state purchases. Volumes shall be expressed in BPD barrels.

LJ. The anticipated foreign imports of gasoline and gasoline blend components and other material or substance produced by each affected processing unit in preparation for or during the planned maintenance event to replace lost production, inclusive of foreign imports secured as of the time of the report. For finalized reports, enter the received barrels of foreign imports. Volumes shall be expressed in BPD barrels.

MK. The anticipated reductions of noncontracted sales of gasoline or other material or substance produced by each affected processing unit related to the planned maintenance event. For finalized reports, enter the actual barrels of reductions in noncontracted sales. Volumes shall be expressed in barrels.

NL. The projected quantity of contractual supply obligations, expressed in barrels, for finished California-specification gasoline due during the planned maintenance event or turnaround. This value must represent total contractual obligations active during all the current or projected process unit outages or rate reductions as a whole, rather than for each individual unit, at the time of reporting. When a contract is no longer obligated, update the field appropriately.

OM. Indication if the reported item is an initial estimate, revision, or final value.

3.2 California Unplanned Refinery Maintenance Report

This report shall contain the information detailed below in subsections A through KM. Refer to our PIIRA Forms and Instructions web page for the Unplanned Refinery Maintenance Report and Instructions.

Reporting Period

For unplanned maintenance resulting in a shutdown of a refinery process lasting more than 24 hours or for unplanned processing unit rate reduction events that will result in a production loss of two percent or more of any marketable product class per facility, lasting three days or more, each reporting company shall provide the Initial Unplanned Refinery Maintenance Report within two business days of the initial event occurrence and the Final Unplanned Refinery Maintenance Report within two business days of the completion of repairs or when units resume scheduled production rates, whichever occurs first. If any changes occur during

the maintenance event affecting a processing unit's return-to-service date after the submission of the initial report, refiners must provide a revised report within two business days after the change has been discovered to the executive director of the commission, outlining the nature of the change.

Informational Requirements

All data fields shall be completed with valid and accurate entries. Fields should not be left blank, nor should they contain placeholder values such as "N/A." Date fields shall be entered in the MM/DD/YYY format (for example, 9/10/2024). For fields requiring numerical input, such as operational capacity, a valid number (for example, 40,000) shall be provided. For estimated values, reporters shall provide their best estimate; if no impacts are expected, reporters shall enter a value of 0 (zero).

A. A description of the reason for the unplanned maintenance or processing unit rate reduction.

B. The processing unit name, processing unit ID, and operational capacity of each processing unit involved in the unplanned maintenance event, expressed in B/CD. For events involving multiple processing units at differing occurrences, refiners shall specify the halt event date and return-to-service date for each processing unit involved.

C. The specific halt event date of the event. The date that each affected processing unit stopped operation or reduced to the rate necessary for maintenance to proceed.

D. The estimated return-to-service date. when the affected processing unit(s) resumes at scheduled production rates. Final reports shall contain the actual return-to-service date.

E. The estimated daily decrease in output, in barrels per day (BPD), for the following materials or substances of gasoline, diesel, and jet fuel components from produced by each processing unit affected by the unplanned maintenance or rate reduction event. Final reports shall contain the actual daily decrease in output.

1. Gasoline. The daily decrease in production of gasoline boiling range materials, which will eventually be blended into finished gasoline products (either as is or with additional treatment).

2. Diesel. The daily decrease in production of diesel boiling range materials, which will eventually be blended into finished diesel products (either as is or with additional treatment).

3. Jet Fuel. The daily decrease in production of jet fuel boiling range materials, which will eventually be blended into finished jet fuel products (either as is or with additional treatment).

4. Other. The daily decrease in production of materials outside the boiling range of gasoline, diesel, or jet fuel, which will eventually be blended into products such as asphalt, liquified petroleum gases, or other.

F. Inventory Type — Report inventories at your refinery and held at other merchant bulk terminals under lease agreements between the refiner and the owner and operator of the terminal. Report by product type and CEC product code, as specified in Section F of Chapter 3.1.

GF. The estimated drawdown of inventory levels of gasoline and gasoline blending components and other material or substance produced by each affected processing unit that are controlled by the refiner at the refinery and at other storage locations in California during the unplanned maintenance or rate reduction event. Final reports shall contain actual drawdown values totaled to the return-to-service date of affected processing unit. Volumes shall be expressed in barrels.

HG. The inventory levels of gasoline and gasoline blending components and other material or substance produced by each affected processing unit that are controlled by the refiner at the refinery and at other storage locations in California at the time of reporting. Volumes shall be expressed in barrels.

H. The anticipated volume of in-state purchases from other market participants in California of gasoline and gasoline blend components and other material or substance produced by each affected processing unit during the unplanned maintenance or rate reduction event to replace lost production, inclusive of in-state purchases made as of the time of the report. For finalized reports, enter the actual barrels of in-state purchases. Volumes shall be expressed in BPD barrels.

I. The anticipated volume of out-of-state purchases from other domestic market participants of gasoline and gasoline blend components and other material or substance produced by each affected processing unit during the unplanned maintenance or rate reduction event to replace lost production, inclusive of out-of-state purchases made as of the time of the report. For finalized reports, enter the actual barrels of out-of-state purchases. Volumes shall be expressed in BPD barrels.

J. The anticipated volume of foreign imports of gasoline and gasoline blend components and other material or substance produced by each affected processing unit during the unplanned maintenance or rate reduction event to replace lost production, inclusive of foreign imports secured as of the time of the report. For finalized reports, enter the actual barrels of foreign imports. Volumes shall be expressed in BPD barrels.

K. The anticipated volume of reductions in noncontracted sales of gasoline or other material or substance produced by each affected processing unit during the unplanned maintenance or rate reduction event. For finalized reports, enter the actual barrels of reductions in noncontracted sales. Volumes shall be expressed in barrels.

L. The anticipated quantity of contractual supply obligations, expressed in barrels, for finished California-specification gasoline due during the unplanned maintenance or rate reduction event. This value must represent total contractual obligations active during all the current or projected process unit outages or rate reductions as a whole, rather than for each individual unit, at the time of reporting. When a contract is no longer obligated, update the field

appropriately. For finalized reports, enter the actual quantity in barrels of contractual supply obligations.

M. Indication if the reported item is an initial estimate, revision, or final value.

3.3 Refinery Maintenance and Turnaround Resupply Plan

This report shall detail the specific actions of a refiner to plan for and ensure adequacy of gasoline supply during the course of a planned maintenance or turnaround event, consistent with the requirements of section 3401 of title 20 of the California Code of Regulations, as applicable.

A refiner submitting this report shall demonstrate how it plans to (i) build inventories through on-site refinery production in advance of the maintenance or turnaround event, (ii) secure interstate or foreign imports, (iii) otherwise secure gasoline or gasoline blending components from intrastate sources, or (iv) a combination of these steps. Initial, revised, and final versions of this report shall contain, at a minimum, all of the information detailed below in subsections A through E.

The plan shall include a declaration dated and signed under penalty of perjury by an agent of the refiner who is informed about the events and actions described in the plan that all information contained in the plan is true, correct, and complete to the best of the representative's knowledge.

Reporting Period

Refiners shall submit an Initial Refinery Maintenance and Turnaround Resupply Plan (Initial Plan) at least 120 days before any planned maintenance or turnaround. If the need for planned maintenance or turnaround is identified less than 120 days prior to the scheduled event, refiners shall submit the initial report within two business days of discovering the need for planned maintenance and include all information available at that time. Refiners shall report any changes to an Initial Plan in a revised Plan no less than 60 days before any planned maintenance or turnaround. Refiners shall submit a Final Report with finalized information no later than 30 days after either repairs on the units have completed or when units resume scheduled production rates, whichever occurs first.

Submission Guidelines

Initial Submissions. The initial EBR1P and its associated Refinery Maintenance and Turnaround Resupply Plan shall be submitted to the PIIRA data submission portal (DSP) as a pair at least 120 days in advance.

Revised and Final Reports. For revised and final EBR1P and Resupply plan report submissions, users shall select the appropriate report submission for the associated event within the DSP. This action generates a version number. For example, if an initial submission has an Event ID (form ID) of 1000505_v1, the next revised submission will generate an Event ID of 1000505_v2. If a different user is submitting a revision or final report, they should attempt to obtain the initial Event ID from the original submitter and enter it on the report(s) before submitting. If the initial Event ID cannot be accessed, the user should submit the report as if there is no associated Event ID.

Informational Requirements

- **Event ID**. The Event ID (Form ID) is the unique identifier generated by the PIIRA data submission portal upon the submission of an initial EBR1P. The reporter shall ensure that the same Event ID is entered on all revised and final reports associated with the Initial EBR1P and resupply plan documentation.
- **Total Fuel Impact.** The total production loss from maintenance (in barrels), by fuel type (gasoline, diesel, jet, other).
- **Resupply Obtained Through Purchases.** The following information or estimates thereof for California reformulated gasoline and blending components (alkylate must be reported separately from other blending components) obtained or planned to be obtained through purchases to supplement lost gasoline production or gasoline demand during the event.
    1. Volume (in barrels).
    2. Date of purchase.
    3. Product type and CEC product code, as specified in Section F of Chapter 3.1.
    4. Product source including seller name and source location.
    5. Delivery method (pipeline, barge, tanker truck, marine vessel, etc.).
    6. Delivery date.
    7. Delivery location (final destination(s) in California where barrels will be stored).
- **Resupply Secured Through Inventory Builds** – The following information or estimates thereof shall be provided for California reformulated gasoline and gasoline blending components (alkylate must be reported separately from other blending components) secured or planned to be secured through buildup of inventory from refiner's own production, including any product transfers between refineries under the same ownership to supplement lost gasoline production or gasoline demand during the event.
    1. Volume (in barrels)
    2. Product type and CEC product code, as specified in Section F of Chapter 3.1.
    3. Storage location.
    4. Start date of the inventory build.
    5. End date of the inventory build.
- **Explanation If There Is No Resupply** – For a report that does not provide for resupply of lost gasoline production, a detailed explanation of the reasons for the lack of resupply.

Additional Informational Requirements for Final Reports.

In addition to the information specified above, final reports shall include the following information as applicable.

- **Event Extension Explanation** - If the outage was extended, a detailed explanation of the reasons for the extension and why the entire event duration was not foreseeable at the time of the initial report.
- **Timing Discrepancies** – If the event start or end date differed from what was submitted in the annual DIR report, a detailed explanation of the reasons for the discrepancy.
- **Actual barrels purchased/received** – actual numbers and any variances from estimates.

- **Explanation of deviations** – If actual resupply differs more than 10 percent from values in an initial report, a detailed explanation of the reasons for the discrepancy.

Supplemental Information

The Executive Director may require a refiner to provide additional documentation, either before or after the maintenance or turnaround event has occurred, to verify the actions of a refiner to plan for and ensure adequacy of gasoline supply during the course of a maintenance or turnaround event. Additional documentation may include, but is not limited to:

- Records demonstrating the volume of resupply reported in an initial or final report.
    - Written explanation of how the refiner increased its inventory levels to account for the lost production during the maintenance or turnaround event, as shown on the refiner's CEC-W800 and EIA810 forms, to account for the gasoline production lost during the event.
    - Any combination of (1) and (2).