

BOARD MEETING DATE: September 3, 2021

AGENDA NO. 32

REPORT: Report to Legislature and CARB on South Coast AQMD
Regulatory Activities for Calendar Year 2020

SYNOPSIS: South Coast AQMD is required by law to submit a report to the Legislature and CARB on its regulatory activities for the preceding calendar year. The report is to include a summary of each rule and rule amendment adopted by South Coast AQMD, number of permits issued, denied, or cancelled, emission offset transactions, budget and forecast, and an update on the Clean Fuels program. Also included is the Annual RECLAIM Audit Report, as required by RECLAIM Rule 2015 - Backstop Provisions.

COMMITTEE: No Committee Review

RECOMMENDED ACTION:

Receive and file the attached report and direct staff to forward the final report to the Legislature and CARB.

Wayne Nastri
Executive Officer

DA:LTO:RAR:HC

Background

South Coast AQMD is subject to several internal and external reviews of its air quality programs. These include an annual review of South Coast AQMD's proposed operating budget for the upcoming fiscal year and compliance program audits.

In 1990, the Legislature directed South Coast AQMD to provide an annual review of its regulatory activities (SB 1928, Presley), and specified the type of information required (Health and Safety Code § 40452). Many of the required elements overlap with other requirements of separate legislation. For example, information on South Coast AQMD's

Clean Fuels Program is a requirement of this report but is also a separate requirement under legislation passed in 1999 (SB 98, Alarcón). The purpose of this report is to provide additional data needed to compile a comprehensive regulatory overview. Most of the information included in this report is not new but is a compilation of information previously seen by the Board. For example, Chapter I lists all the rules and rule amendments adopted by the Board during 2020. The Annual RECLAIM Audit Report, which the Board approved on March 5, 2021, is also required to be submitted to the Legislature by Rule 2015 - Backstop Provisions.

The specific requirements of this report include:

- A summary of each major rule and rule amendment adopted by the Board;
- The number of permits to operate or permits to construct that were issued, denied, cancelled or not renewed;
- Data on emission offset transactions and applications during the previous year;
- The budget and forecast of staff increases or decreases for the following fiscal year;
- An identification of the source of all revenues used to finance the South Coast AQMD's activities;
- An update on the South Coast AQMD's Clean Fuels program; and
- The annual RECLAIM Audit Report.

Attachment

Report to the Legislature on the Regulatory Activities of the South Coast AQMD for Calendar Year 2020.¹

¹ Due to the bulk of these materials, chapters III, IV and V of the report can be found online at <http://www.aqmd.gov/home/research/documents-reports>. Anyone who would like to obtain a hard copy of these materials may do so by contacting South Coast AQMD's Public Information Center at (909) 396-2001.

REPORT TO THE LEGISLATURE ON THE
REGULATORY ACTIVITIES OF THE
SOUTH COAST
AIR QUALITY MANAGEMENT DISTRICT

Pursuant to
Chapter 1702, Statutes of 1990 (SB 1928)



September 2021
Cleaning the Air that We Breathe...

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

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Wayne Natri
Executive Officer

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EXECUTIVE SUMMARY

Introduction

South Coast Air Quality Management District (South Coast AQMD) is subject to internal and external reviews of its air quality programs. These include annual reviews of South Coast AQMD's budget, forecast and proposed operating budget for the upcoming fiscal year, and compliance program audits. In addition, South Coast AQMD is required to submit to the California Air Resources Board (CARB) and State Legislature an annual review of its regulatory activities for the preceding calendar year (CY). The attached report satisfies this latter requirement, which is mandated pursuant to Chapter 1702, Statutes of 1990 (SB 1928, Presley), Section 40452 of the California Health and Safety Code.

Rule Development Projects Approved in 2020 and CEQA Alternatives

This section contains a summary of each rule adoption, amendment, rescission, and other projects approved by the South Coast AQMD Governing Board in the preceding CY 2020. Each summary contains information about the estimated emission reductions, cost-effectiveness, alternatives considered pursuant to the requirements in the California Environmental Quality Act (CEQA), socioeconomic impacts, and sources of funding.

South Coast AQMD operates under a regulatory program certified by the Secretary for Resources pursuant to Public Resources Code Section 21080.5 and CEQA Guidelines Section 15251(l) and implemented pursuant to South Coast AQMD Rule 110. The adoption, amendment, or rescission of South Coast AQMD rules and regulations are subject to our certified CEQA program. The adoption, amendment, or rescission of plans, such as the Air Quality Management Plan (AQMP) are not subject to CEQA. Having a certified regulatory program means that South Coast AQMD can incorporate its environmental analyses into CEQA documents other than environmental impact reports (EIRs), negative declarations (NDs), or mitigated NDs (MNDs) without being subject to specific CEQA requirements identified in Public Resources Code Section 21080.5. Instead, all CEQA documents prepared by South Coast AQMD pursuant to its certified regulatory program are either called an Environmental Assessment (EA), or some variant of an EA such as a Subsequent or Supplemental EA, or Addendum to an EA.

In 2020, the South Coast AQMD Governing Board adopted or amended the following major rules and regulations for which a public workshop was conducted: Rule 1179.1 (adopted), Rules 445, 1107, 1111, 1117, 1146, and 1178), and Regulations XIII, XX, and XXX (amended).

Refer to Chapter 1 for more details regarding these approved major rule/regulation projects.

Socioeconomic Impact Assessments

Health and Safety Code Section 40440.8 requires that South Coast AQMD perform socioeconomic impact assessments for its rules and regulations that will significantly affect air quality or emissions limitations. Prior to implementing the requirements of Health and Safety Code Section 40440.8, South Coast AQMD staff had been evaluating the socioeconomic impacts of its actions pursuant to a 1989 Governing Board Resolution. Additionally, South Coast AQMD staff assesses socioeconomic impacts of CEQA alternatives analyzed for rules with significant cost and emission reduction impacts.

The elements of socioeconomic impact assessments include direct effects on various types of affected industries in terms of control costs and cost-effectiveness as well as public health benefits associated with AQMPs. Additionally, South Coast AQMD staff uses an economic model developed by Regional Economic Models, Inc. (REMI) to analyze the potential direct and indirect socioeconomic impacts of South Coast AQMD rules on Los Angeles, Riverside, Orange, and San Bernardino Counties. These impacts include, but are not limited to, employment and competitiveness.

In 2020, South Coast AQMD identified and analyzed potential socioeconomic impacts of one new rule (Rule 1179.1), amendments to six rules (Rules 445, 1107, 1111, 1117, 1146, and 1178), and amendments to three regulations (Regulations XIII, XX, and XXX). No significant socioeconomic impacts were identified for any of these projects. Additionally, this section includes a summary of the associated socioeconomic impacts of Rule 320 because it contains a requirement for an automatic annual California Consumer Price Index (CPI) adjustment that has associated socioeconomic impacts even though the amendments to this rule were considered and foregone by the South Coast AQMD Governing Board in 2020.

Refer to Chapter 1 for details regarding the socioeconomic impact assessments.

Engineering and Permitting

Background

Section 40452 of the California Health and Safety Code requires that South Coast AQMD submit an annual report to both the state board and Legislature that summarizes its regulatory activities for the preceding calendar year. Paragraph (b) of Section 40452 requires that the annual report include data on “the number of permits to operate or to construct, by type of industry, that are issued and denied, and the number of permits to operate that are not renewed.” Paragraph (c) of section 40452 requires that the annual report also includes data on emission offset transactions and applications during the previous fiscal year, including an accounting of the number of applications for permits for new or modified sources that were denied because of the unavailability of emission offsets. In addition, South Coast AQMD Rule 2015 requires submittal of the annual Regional Clean Air Incentives Market (RECLAIM) Audit Report for the 2019 Compliance Year to the Legislature.

The following paragraphs provide a brief summary for each report.

Permitting Data – Calendar Year 2020

During calendar year 2020, South Coast AQMD dispositioned a total of 7,452 applications. Most of these applications were for Permits to Operate (2,920), Area Sources & Certified/ Registrations (795), and Changes of Operators (1,164). Seven permits were denied. Also, 1,436 permits were not renewed. This data is summarized in Table 1.

Table 2 contains a breakdown of permits dispositioned (in the nine categories) and permits not renewed, by type of industry. The type of industry was based on North American Industry Classification System (NAICS) codes, which were provided by the applicant at the time of application filing. The top five NAICS codes were 447110/447190 – Gasoline Service Stations, 811121 - Automotive Body, Paint, and Interior Repair and Maintenance, 445110 – Supermarkets and Other Grocery, 324110 – Petroleum Refineries, and 812320 – Dry Cleaning and Laundry Services (except Coin-Operated).

Emission Offset Transactions Data – Fiscal Year 2019-2020

During fiscal year 2019-2020, a total of 60 emission offset transactions were completed, which included 21 transactions for reactive organic gases (ROG), 19 transactions for oxides of nitrogen (NO_x), 11 transactions for oxides of sulfur (SO_x), and 9 transactions for particulate matter with an aerodynamic diameter less than 10 microns (PM₁₀). There were no transactions for carbon monoxide (CO). The amounts of emissions offsets transferred, by pollutant, include 736 pounds per day of ROG, 461 pounds per day of NO_x, 181 pounds per day of SO_x, and 23 pounds of PM₁₀ (see Table 3). No banking applications resulting in the issuance of new emission offsets for ROG, NO_x, SO_x, CO, or PM₁₀ were processed. Additionally, no applications were denied a permit for a new source because of the unavailability of emission offsets.

RECLAIM Audit Report

The REgional CLean Air Incentives Market (RECLAIM) program was adopted in 1993 to provide facilities with flexibility in achieving the same emissions reduction goals as would have been achieved under the traditional command and control approach, while lowering the cost of compliance. To ensure RECLAIM is achieving its goal, South Coast AQMD Rule 2015 – Backstop Provisions, requires preparation of an annual audit report on the program. This Annual RECLAIM Audit Report assesses emission reductions, availability of RECLAIM Trading Credits (RTCs) and their average annual prices, job impacts, compliance issues, and other measures of performance for the twenty-fourth year of this program. The results of the annual audit show that RECLAIM continues to meet its aggregate emission goals and all other specified objectives.

As discussed in the audit report (see Chapter V), a total of 246 facilities were in the RECLAIM program at the end of Compliance Year 2019. Total NO_x emissions from RECLAIM facilities were 20 percent less than the aggregate NO_x allocations, and SO_x emissions were 23 percent less than the aggregate SO_x allocations for the program. The vast majority of RECLAIM facilities complied with their allocations during the 2019 compliance year (95 percent of NO_x facilities and 97 percent of SO_x facilities).

A total of over \$1.54 billion in RTCs has been traded since the adoption of RECLAIM, of which \$18.2 million occurred in CY 2020 compared to \$34.2 million in CY 2019, excluding swaps. RTCs for NO_x and SO_x traded in calendar years 2019 and 2020 were all below the applicable review thresholds for initiating program review.

In Compliance Year 2019, RECLAIM facilities reported a net loss of 4,167 jobs, representing 4.0 percent of their total employment. The RECLAIM program also met other applicable requirements including meeting the federal offset ratio under New Source Review and having no significant seasonal fluctuation in emissions. Additionally, there is no evidence that RECLAIM resulted in any increase in health impacts due to emissions of air toxics.

Refer to Chapter V for the “Annual RECLAIM Audit Report for 2019.”

Budget and Work Program

Refer to Chapter III for the Fiscal Year 2021-2022 Budget Report.

Clean Fuels Programs

2020 Annual Report

In CY 2020, the South Coast AQMD Clean Fuels Program executed 24 new contracts, projects or studies and modified 11 continuing projects adding dollars toward research, development, demonstration and deployment projects as well as technology assessment and transfer of alternative fuel and clean fuel technologies. The South Coast AQMD Clean Fuels Program contributed nearly \$4.1 million in partnership with other governmental organizations, private industry, academia and research institutes, and interested parties, with total project costs of approximately \$28.9 million. The \$4.1 million includes nearly \$500,000 recognized into the Clean Fuels Fund as pass-through funds from project partners to facilitate project administration by the Clean Fuels Program. Additionally, in CY 2020, the Clean Fuels Program continued to leverage outside funding opportunities, securing awards totaling \$45.8 million from federal, state and local funding opportunities. The significant project scope of a few key contracts executed in 2020 resulted in higher than average leveraging of Clean Fuels dollars. Typical historical leveraging is \$4 for every \$1 in Clean Fuels funding. In 2020, South Coast AQMD leveraged nearly \$7 leveraged for every \$1 in Clean Fuels funds. Leveraging dollars and aggressively pursuing funding opportunities is critical given the magnitude of funding identified in the 2016 AQMP to achieve federal ozone air quality standards.

The projects or studies executed in 2020 included a diverse mix of advanced technologies. The following core areas of technology advancement for 2020 executed contracts (in order of funding percentage) include:

1. Engine Systems/Technologies (emphasizing alternative and renewable fuels for truck and rail applications);
2. Hydrogen and Mobile Fuel Cell Technologies and Infrastructure;
3. Technology Assessment and Transfer/Outreach;
4. Electric and Hybrid Vehicle Technologies and Related Infrastructure (emphasizing electric and hybrid electric trucks developed by OEMs and container transport technologies with zero emission operations); and
5. Fueling Infrastructure and Deployment (natural gas (NG)/ renewable natural gas (RNG)).

During CY 2020, South Coast AQMD supported a variety of projects and technologies, ranging from near- term to long-term research, development, demonstration and deployment activities. This “technology portfolio” strategy provides South Coast AQMD the ability to leverage state and federal funding while also addressing the specific needs of the Basin. Projects included significant electric and hybrid electric technologies and infrastructure to develop and demonstrate medium- and heavy-duty vehicles in support of transitioning to a near-zero and zero emissions goods movement industry; development, demonstration and deployment of large displacement natural gas and ultra-low emissions engines; demonstration of emissions control technologies for heavy-duty engines; and natural gas and renewable natural gas deployment and support.

In 2020, 22 research, development, demonstration and deployment projects or studies and eight technology assessment and transfer contracts were completed. As of January 1, 2021, there were 106 open contracts in the Clean Fuels Program.

In accordance with California H&SC Section 40448.5.1(d), this annual report was submitted to the state legislature by March 31, 2021, after approval by the South Coast AQMD Board.

2021 Plan Update

Staff's re-evaluation of the Clean Fuels Program to develop the annual Plan Update is based on a reassessment of the technology progress and direction for the agency. The Program continually seeks to support the development and deployment of cost-effective clean fuel technologies with increased collaboration with OEMs to achieve large scale deployment. The design and implementation of the Clean Fuels Program Plan must balance the needs of the various technology sectors with technology readiness on the path to commercialization, emission reduction potential and cofunding opportunities. For several years, the state has focused a great deal of attention on climate change and petroleum reduction goals, but South Coast AQMD has remained committed to developing, demonstrating, and commercializing technologies that reduce criteria pollutants, specifically NO_x and toxic air contaminants (TACs). These technologies address the Basin's need for NO_x and TAC reductions and garner reductions in greenhouse gases (GHG) and petroleum use. Due to these co-benefits, South Coast AQMD has been successful in partnering with the state and public/private partnerships to extensively leverage its Clean Fuels funding.

South Coast AQMD engages in outreach and networking efforts to identify technology and project opportunities where funding can make a significant difference in deploying cleaner technologies in the Basin,. These activities range from close involvement with state and federal collaboratives, partnerships and industrial coalitions, to the issuance of Program Opportunity Notices (PONs) to solicit project ideas and concepts and Requests for Information (RFIs) to determine the current state of various technologies and their development and commercialization challenges. Additionally, unsolicited proposals from OEMs and other clean fuel technology developers are regularly received and reviewed. Potential development, demonstration, and certification projects resulting from these outreach and networking efforts are included conceptually within the Draft 2021 Plan Update. In accordance with Assembly Bill (AB) 617, which requires reduced exposure to communities most impacted by air pollution, TAO conducted additional outreach to AB 617 communities regarding available zero and near-zero emission technologies and incentives to accelerate cleaner technologies. Cleaner technologies such as zero emission heavy-duty trucks are now included in the Community Emission Reduction Plans (CERPs) for these AB 617 communities. CARB adopted two critical milestone regulations for reducing emissions from heavy-duty mobile sources in 2020, the Advanced Clean Truck (ACT) regulation which mandates percent zero emission truck (ZET) sales starting in 2024 and the Omnibus Low NO_x regulation which requires lower NO_x standard heavy-duty engines starting in 2022. Despite these two major efforts, the expected NO_x reduction will still fall short of the 2023 and 2031 attainment target.

The Plan Update includes projects to develop, demonstrate and commercialize a variety of technologies, from near-term to long-term commercialization, that are intended to provide emission reductions identified in the 2016 AQMP. Given the need for significant reductions over the next five to ten years, near-zero and zero emission technologies are emphasized. Areas of focus include:

- Reducing emissions from port-related activities, such as cargo handling and container movement, and other technologies, including demonstration and deployment of zero emission drayage trucks;
- Developing and demonstrating ultra-low NO_x, gaseous and liquid renewable fueled, large

displacement/high efficiency engines and zero emission heavy-duty vehicles;

- Developing, demonstrating and deploying advanced natural gas and propane engines as well as near-zero and zero emission technologies for high horsepower applications;
- Mitigating criteria pollutant emissions from renewable fuels, such as renewable natural gas, diesel and hydrogen as well as other renewable fuels and waste streams;
- Producing transportation fuels and energy from renewable and waste stream sources;
- Developing and demonstrating electric-drive (fuel cell, battery, plug-in hybrid and non-plug-in hybrid) technologies across light-, medium- and heavy-duty platforms;
- Establishing large-scale hydrogen refueling and EV charging infrastructure to support light-, medium- and heavy-duty zero emission vehicles; and
- Developing and demonstrating advanced zero emission microgrids for energy storage and demand to support transportation electrification, goods movement, and freight handling activities.

Potential projects across nine core technologies by funding priority:

1. Hydrogen/Mobile Fuel Cell Technologies and Infrastructure (especially large-scale refueling and production facilities) and stations that support medium and heavy-duty vehicles;
2. Engine Systems/Technologies (emphasizing alternative and renewable fuels for truck and rail applications);
3. Electric/Hybrid Vehicle Technologies and Infrastructure (emphasizing electric and hybrid electric trucks and container transport technologies with zero emission operations);
4. Fueling Infrastructure and Deployment (predominantly renewable natural gas and renewable fuels);
5. Stationary Clean Fuel Technologies (including microgrids that support electric vehicle (EV) and Hydrogen infrastructure and renewables);
6. Fuel and Emission Studies;
7. Emission Control Technologies that support low-emitting diesel engines;
8. Health Impact Studies within disadvantaged communities; and
9. Technology Transfer/Assessment and Outreach.

These potential projects for 2021 total \$17.9 million, with anticipated leveraging of more than \$4 for every \$1 of Clean Fuels funding for total project costs of \$120 million. Some of the proposed projects may also be funded by revenue sources other than the Clean Fuels Program, through state and federal grants, incentive programs such as AB 617 Community Air Protection (CAP) funding, Volkswagen Mitigation, Carl Moyer, and Prop 1B.

CHAPTER I
RULE DEVELOPMENT, CEQA, and SOCIOECONOMIC IMPACT ANALYSES

RULE DEVELOPMENT PROJECTS APPROVED IN 2020 AND CEQA ALTERNATIVES

This section contains a summary of each rule adoption, amendment, and rescission projects approved by the South Coast AQMD Governing Board in the preceding calendar year (2020). Each summary provides information about the estimated emission reductions, cost-effectiveness, alternatives considered pursuant to the requirements in the California Environmental Quality Act (CEQA), socioeconomic impacts, and sources of funding.

Projects undertaken by public agencies are subject to CEQA, so rules and regulations promulgated by South Coast AQMD must first be reviewed to determine if they are considered a “project” as defined by CEQA. For any proposal that is either not a “project” or determined to be exempt from CEQA, no further action is required. If the project has the potential to create significant or less than significant adverse effects on the environment, then an environmental analysis is necessary. New rules being adopted, or existing rules being amended or rescinded typically require a comprehensive CEQA document that contains an environmental impact analysis which includes the following:

- identification of potentially significant adverse environmental impacts evaluated based on environmental checklist topics;
- identification of feasible measures, if any, to mitigate significant adverse environmental impacts to the greatest extent feasible;
- if necessary, a discussion and comparison of the relative merits of feasible project alternatives that generally achieve the goals of the project, but may generate fewer or less severe adverse environmental impacts; and
- identification of environmental topics not significantly adversely affected by the project.

If significant adverse environmental impacts are identified, feasible mitigation measures, if any, and alternatives must be identified and an analysis of the relative merits of each alternative is required. However, if the CEQA document concludes that no significant adverse environmental impacts would be generated by a proposed project, neither the identification of feasible mitigation measures nor an analysis of CEQA alternatives to the project is required. However, even if a project is determined not to have significant environmental impacts, the CEQA document will contain a focused analysis of the potential environmental impacts.

South Coast AQMD operates under a regulatory program certified by the Secretary for Resources pursuant to Public Resources Code Section 21080.5 and CEQA Guidelines Section 15251(l) and implemented pursuant to South Coast AQMD Rule 110. The adoption, amendment, or rescission of South Coast AQMD rules and regulations are subject to South Coast AQMD’s certified CEQA program, while the adoption, amendment or rescission of plans such as the AQMP are not. Having a certified regulatory program means that South Coast AQMD can incorporate its environmental analyses into CEQA documents other than environmental impact reports (EIRs), negative declarations (NDs), or mitigated NDs (MNDs) without being subject to a limited number of specific CEQA requirements identified in Public Resources Code Section 21080.5. Instead, all CEQA documents prepared by South Coast AQMD pursuant to its certified regulatory program are either called an Environmental Assessment (EA), or some variant of an EA such as a Subsequent or Supplemental EA, or Addendum to an EA.

The following section identifies all major rules/regulations and rule/regulation amendments that were adopted by the South Coast AQMD Governing Board in 2020, in sequential order according to the month of project approval. Alternatives are summarized only for those projects identified as having potentially significant impacts requiring an alternatives analysis pursuant to CEQA.

FEBRUARY 7, 2020

One project was approved by the South Coast AQMD Governing Board in February:

- 1. Amended Rule 1107 – Coating of Metal Parts and Products:** Rule 1107 was amended to be consistent with Reasonably Available Control Technology requirements as recommended in U.S. EPA’s Control Techniques Guidelines for Miscellaneous Metal and Plastic Parts Coatings (September 2008). Amendments to Rule 1107 reduced Volatile Organic Compound (VOC) limits for baked metallic and baked camouflage coatings from 420 grams/liter (g/L) to 360 g/L as requested by California Air Resources Board. Other amendments to Rule 1107 addressed work practices for coating-related activities, updated test methods, and removed obsolete provisions. The South Coast AQMD Governing Board determined that the project was exempt from CEQA, therefore, no alternatives analysis was required.

Estimated Emission Reductions: None. *Cost-Effectiveness:* Not applicable. *CEQA Alternatives:* Not required. *Socioeconomic Impact:* Not required. *Source(s) of Funding:* Permit Fees, Emission Fees and Annual Operating Fees.

JUNE 5, 2020

Two projects were approved by the South Coast AQMD Governing Board in June:

- 1. Amended Rule 445 – Wood-Burning Devices:** Rule 445 was amended to satisfy U.S. EPA PM_{2.5} contingency measure requirements and Control Measure BCM-09 from the 2016 AQMP. The threshold for no-burn days was incrementally lowered automatically for each subsequent final determination by the U.S. EPA of a failure to meet an applicable Clean Air Act milestone. The adopted amendments were crafted to also reduce ambient PM_{2.5} by expanding the criteria for Basin-wide wood-burning curtailments. Other minor amendments to Rule 445 included additional definitions for terms used in the rule, and revisions to improve rule implementation and clarify existing requirements. The South Coast AQMD Governing Board determined that the project was exempt from CEQA, therefore, no alternatives analysis was required.

Estimated Emission Reductions: Ranges from 186.0 tons of PM_{2.5} per year at the current threshold of 29 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) to 239.8 at the lowest threshold of 26 $\mu\text{g}/\text{m}^3$. *Cost-Effectiveness:* Not required. *CEQA Alternatives:* Not required. *Socioeconomic Impact:* Minimal impact, see Socioeconomic Impacts Assessment section. *Source(s) of Funding:* Other, e.g. civil penalty funds.

- 2. Amended Rule 1117 – Emissions from Container Glass Melting and Sodium Silicate Furnaces:** Rule 1117 was amended to establish NO_x and SO_x emission standards for container glass melting and sodium silicate furnaces at container glass and sodium silicate production facilities, update monitoring, reporting, and recordkeeping requirements,

establish provisions for idling, startup, and shutdown of these furnaces, and remove obsolete provisions. Amendments to Rule 1117 also included NOx emission limits for auxiliary combustion equipment associated with container glass melting operations. The South Coast AQMD Governing Board determined that the project was exempt from CEQA, therefore, no alternatives analysis was required.

Estimated Emission Reductions: 0.57 ton of NOx per day. *Cost-Effectiveness:* \$22,700 per ton of NOx reduced per day. *CEQA Alternatives:* Not required. *Socioeconomic Impact:* Not required. *Source(s) of Funding:* AB 617, Permit Fees, Emission Fees and Annual Operating Fees.

SEPTEMBER 4, 2020

One project was approved by the South Coast AQMD Governing Board in September:

- 1. Amended Rule 1111 – Reduction of NOx Emissions from Natural-Gas-Fired, Fan-Type Central Furnaces, and Revisions to Clean Air Furnace Rebate Program:** Rule 1111 was amended to establish a NOx emission limit of 14 nanograms per Joule (ng/J) for residential and commercial gas furnaces. Amended Rule 1111 also extended the mitigation fee alternative compliance option from October 1, 2020 to September 30, 2021 for weatherized furnaces and extended the exemption from October 1, 2020, to September 30, 2021, for high-altitude furnaces. The amendment also included an exemption for gas-electric dual fuel systems with low-NOx furnaces (40 ng/J) installed at high altitudes until September 30, 2022. Amended Rule 1111 modified the Clean Air Furnace Rebate program to increase funding and consumer rebates. The South Coast AQMD Governing Board determined that the project was exempt from CEQA, therefore, no alternatives analysis was required.

Estimated Emission Reductions: None. *Cost-Effectiveness:* Not required. *CEQA Alternatives:* Not required. *Socioeconomic Impact:* No impact, see Socioeconomic Impacts Assessment section. *Source(s) of Funding:* Emission Fees and Annual Operating Fees.

OCTOBER 4, 2020

One project was approved by the South Coast AQMD Governing Board in October:

- 1. Rule 1179.1 – NOx Emission Reductions from Combustion Equipment at Publicly Owned Treatment Works Facilities:** Rule 1179.1 was adopted to establish nitrogen oxides (NOx), volatile organic compound (VOC), and carbon monoxide (CO) emission limits for boilers, process heaters, engines, and turbines at Publicly Owned Treatment Works (POTW) facilities. Rule 1179.1 consolidated requirements from existing source-specific rules and incorporated new requirements for turbines, which were previously exempt from existing source-specific rules. Rule 1179.1 also included provisions for starting up and shutting down equipment, and monitoring, reporting, and recordkeeping. A Final EA was prepared for the project and the analysis concluded that there would be no significant adverse environmental impacts, no alternatives analysis was required. *Estimated Emission Reductions:* 0.05 ton of NOx per day. *Cost-Effectiveness:* \$50,000 per ton of NOx reduced. *CEQA Alternatives:* Not required. *Socioeconomic Impact:* Yes,

see Socioeconomic Impact Assessments section. *Source(s) of Funding:* AB 617, Permit Fees, Emission Fees and Annual Operating Fees.

OCTOBER 27, 2020

One project was approved by the South Coast AQMD Governing Board at a special meeting held on October 27, 2020:

- 1. Amended Rule 445 – Wood-Burning Devices:** Rule 445 was amended to establish contingency measures for ozone standards to satisfy the U.S. EPA requirement to submit a Reasonable Further Progress contingency measure that provides for additional ozone National Ambient Air Quality Standards emission reductions in the event that the South Coast Air Basin fails to comply with an applicable Clean Air Act milestone. Specifically Amended Rule 445: 1) established an automatic Basin-wide No-Burn day that is triggered when the daily maximum 8-hour ozone air quality is forecast to exceed 80 parts per billion (ppb) in any Source Receptor Area; 2) automatically reduced the ozone threshold to 75 ppb and 70 ppb if the U.S. EPA makes a secondary and tertiary finding, respectively, of a failure to comply with a milestone or attainment requirement by the applicable due date; and 3) added contingent ozone No-Burn days to the definition of wood-burning season (currently November, December, January, and February) to include additional months (September, October, March, and April). Other minor amendments included additional definitions of terms used in the rule, and revisions to improve rule implementation and clarify existing requirements. The South Coast AQMD Governing Board determined that the project was exempt from CEQA, therefore, no alternatives analysis was required.

Estimated Emission Reductions: 22.38, 46.10, and 88.43 tons of VOC per year at the 80 ppb, 75 ppb and 70 ppb ozone standard, respectively. *Cost-Effectiveness:* Not required. *CEQA Alternatives:* Not required. *Socioeconomic Impact:* Minimal impact, see Socioeconomic Impact Assessments section. *Source(s) of Funding:* Other, e.g. civil penalty funds.

NOVEMBER 6, 2020

One project was approved by the South Coast AQMD Governing Board in November:

- 1. Amended Rule 1178 – Further Reductions of VOC Emissions from Storage Tanks at Petroleum Facilities:** Rule 1178 was amended to establish requirements to control VOC emissions from storage tanks at petroleum facilities. Amendments to Rule 1178 addressed safety concerns related to the enclosure of external floating roof tanks that store sour water. Amended Rule 1178 reinstated an expired provision that allows operators to accept a permit condition to limit the vapor pressure of organic liquid stored for external floating roof tanks that store sour water. The South Coast AQMD Governing Board determined that the project was exempt from CEQA, therefore, no alternatives analysis was required.

Estimated Emission Reductions: Up to 2.4 pounds VOC per day foregone. *Cost-Effectiveness:* Not required. *CEQA Alternatives:* Not required. *Socioeconomic Impact:* Not required. *Source(s) of Funding:* Permit Fees, Emission Fees and Annual Operating Fees.

DECEMBER 4, 2020

Two projects were approved by the South Coast AQMD Governing Board in December:

- 1. Amended Rule 1146 – Emissions of Oxides of Nitrogen from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters:** To prevent conflicts with applying the existing ammonia emission limits in Regulation XIII during the permitting process, Rule 1146 was amended by removing the ammonia concentration limit of five parts per million (ppm). Based on the review of recently approved permits, an ammonia concentration limit of five ppm has been imposed as Best Available Control Technology (BACT); therefore, removal of the five ppm limit from Rule 1146 was determined to not cause any significant adverse impacts. The South Coast AQMD Governing Board determined that the project was exempt from CEQA, therefore, no alternatives analysis was required.

Estimated Emission Reductions: None. *Cost-Effectiveness:* Not required. *CEQA Alternatives:* Not required. *Socioeconomic Impact:* Not required. *Source(s) of Funding:* AB 617, Permit Fees, Emission Fees and Annual Operating Fees.

- 2. Amended Regulation XIII – New Source Review, Regulation XX – Regional Clean Air Incentives Market (RECLAIM), and Regulation XXX – Title V Permits:** Due to the reclassification of the Coachella Valley from Severe to Extreme nonattainment for the 1997 8-hour ozone standard, amendment to rules within Regulation XIII, Regulation XX and Regulation XXX were necessary to reflect the Coachella Valley's new attainment status. The amendments to Regulations XIII, XX, and XXX lowered the major source thresholds for VOC and NO_x, which are ozone precursors, in the Coachella Valley from 25 tons per year to 10 tons per year and lowered the major modification thresholds for VOC and NO_x in the Coachella Valley from 25 tons per year to one pound per day. Additional amendments corrected rule references and improved rule clarity by adding California Code of Regulation references for the definitions of the Riverside County portion of the Salton Sea Air Basin and the non-Palo Verde, Riverside County portion of the Mojave Desert Air Basin. The South Coast AQMD Governing Board determined that the project was exempt from CEQA, therefore, no alternatives analysis was required.

Estimated Emission Reductions: None. *Cost-Effectiveness:* Not required. *CEQA Alternatives:* Not required. *Socioeconomic Impact:* Not required. *Source(s) of Funding:* AB 617, Permit Fees, Emission Fees and Annual Operating Fees.

SOCIOECONOMIC IMPACT ASSESSMENTS

Health and Safety Code Section 40440.8 requires that South Coast AQMD perform socioeconomic impact assessments for its rules and regulations that will significantly affect air quality or emissions. Prior to implementing the requirements of Health and Safety Code Section 40440.8, South Coast AQMD staff had been evaluating the socioeconomic impacts of its actions pursuant to a 1989 resolution of its Governing Board. Additionally, South Coast AQMD staff assesses socioeconomic impacts of CEQA alternatives to those rules with significant cost and emission reduction impacts.

The elements of socioeconomic impact assessments include direct effects on various types of affected industries in terms of control costs and cost-effectiveness as well as public health benefits associated with AQMPs. Additionally, South Coast AQMD staff uses a state-of-the-art economic model developed by Regional Economic Models, Inc. (REMI) to analyze the potential direct and indirect socioeconomic impacts of South Coast AQMD rules on Los Angeles, Riverside, Orange, and San Bernardino Counties. These impacts include but are not limited to employment and competitiveness.

In 2020, South Coast AQMD identified and analyzed potential socioeconomic impacts of one new rule (Rule 1179.1), amendments to six rules (Rules 445, 1107, 1111, 1117, 1146, and 1178), and amendments to three regulations (Regulations XIII, XX, and XXX). No significant socioeconomic impacts were identified for any of these projects. Additionally, this section includes a summary of the associated socioeconomic impacts of Rule 320 because it contains a requirement for an automatic annual California Consumer Price Index (CPI) adjustment that has associated socioeconomic impacts even though the amendments to this rule were considered and foregone by the South Coast AQMD Governing Board in 2020.

RULE DEVELOPMENT PROJECTS WITHOUT SIGNIFICANT SOCIOECONOMIC IMPACTS

No proposed or amended rules assessed in 2020 were found to have significant socioeconomic impacts as a result of required provisions from adopted rules. However, the adoption of Rule 1179.1 had cost impacts which are described below:

Rule 1179.1 – NO_x Emission Reductions from Combustion Equipment at Publicly Owned Treatment Works Facilities (Adopted October 2, 2020)

Rule 1179.1 was adopted on October 2, 2020, to establish Best Available Retrofit Control Technology (BARCT) requirements for combustion equipment located at POTWs using digester gas. During the rule development process in the 2018 amendments to the Rule 1146 Series, staff recognized the need for separate provisions for combustion equipment at POTWs due to differences in the fuel source which contains a contaminant called siloxanes and more limited financial resources at POTWs as compared to other facilities regulated under Rule 1146. The requirements of Rule 1179.1 align NO_x limits for boilers, engines, and turbines already meeting the NO_x limits established in Rule 1110.2 (amended November 2019), and lower NO_x emission limits for turbines greater than 0.3 megawatts (MW).

Rule 1179.1 is expected to affect 30 POTW facilities with a total of 86 biogas-fueled boilers, turbines, and engines. The total cost for three turbines greater than 0.3 MW was approximately \$430,000 per year as a result of increased water injection, and permit modifications for all affected facilities total about \$24,000 annually. The total annual cost of Rule 1179.1 is estimated at \$454,000 amongst 30 facilities. The result of the emission limits in Rule 1179.1 is expected to reduce NO_x emissions by about 0.05 ton per day, and the overall cost-effectiveness of the rule is \$50,000 per ton of NO_x reduced. Job impacts as a result of Rule 1179.1 are expected to be minimal.

EXISTING RULES WITH ONGOING SOCIOECONOMIC IMPACTS

Ongoing Implementation of Rule 320 - Automatic Adjustment Based on Consumer Price Index (CPI) for Regulation III Fees

Pursuant to the October 29, 2010, South Coast AQMD Governing Board Resolution, Rule 320 is required to undergo an annual assessment of the increase in fee rates based on the previous year's CPI by March 15. Rule 320 does not affect air quality or emission limits and as such no socioeconomic and cost-effectiveness analyses are required by statute. However, a socioeconomic impact assessment was conducted to assess the cost impacts of the fee increase and to provide background information, such as historical trends of South Coast AQMD revenues from various fees and sectoral distributions of these fees. The 2020 annual assessment of Rule 320 resulted in an across-the-board 2.8-percent increase in fee rates (equivalent to the change in the California CPI from December 2018 to December 2019) which went into effect on July 1, 2020. The fee increase was applied to most fees in Rules 301, 303, 304, 304.1, 306, 307.1, 308, 309, 311, 313, 314, and 315. However, the South Coast AQMD Governing Board voted in the May 1, 2020, Public Hearing to credit back the 2020 automatic CPI increase due to the economic effects of the COVID-19 pandemic on facilities regulated by South Coast AQMD. Future CPI adjustments would be applied on top of the 2.8 percent increase in 2020 despite the foregone increase to facilities during COVID-19 state-ordered shutdowns.

Nearly all the facilities regulated by South Coast AQMD would be affected by the fee increases and these facilities belong to every sector of the economy. The fees examined included emissions fees, permit processing fees, annual permit renewal fees, toxic hot spot fees, source testing fees, and a portion of fees under Rule 2202 – On-Road Motor Vehicle Mitigation Options.

The across-the-board CPI-based fee rate increase was estimated to bring additional revenue totaling \$2.65 million to South Coast AQMD. Based on the fee categories examined in the analysis, the manufacturing sector was shown to experience the largest increase in fees (approximately \$1.21 million for about 3,600 facilities), followed by the services sector (approximately \$0.47 million for about 10,600 facilities), and the retail trade sector (approximately \$0.36 million for about 4,100 facilities). Within the manufacturing sector, the petroleum and coal products manufacturing industry, mostly comprised of refineries, was estimated to experience an increase of approximately \$0.51 million.

CHAPTER II
ENGINEERING AND PERMITTING ACTIVITIES

Engineering and Permitting

During calendar year 2020, South Coast AQMD dispositioned a total of 7,452 applications. Most of these applications were for Permits to Operate (2,920), Area Sources & Certified/Registrations (795), and Changes of Operators (1,164). Seven applications were denied. Also, 1,436 permits were not renewed. This data, broken down into nine different categories, is summarized in Table 1 below.

TABLE - 1	
Permit Applications Completed Between 01/01/2020 and 01/01/2021	
Type	Count
Permits to Construct	280
Permits to Operate (PO)*	2,920
Changes of Operator (C/O)	1,164
Denials	7
Cancellations	398
Emission Reduction Credits (ERCs)	64
Plans	1,602
RECLAIM/Title V (TV)	222
Area Sources & Certified/Registrations	795
Total	7,452
<i>Permits Not Renewed</i>	1,436

*This includes 1,894 applications for Permit to Construct that were issued as Permits to Construct/Operate.

Table 2, on the following pages, contains a breakdown of permits dispositioned (in the nine categories) and permits not renewed, by type of industry. The type of industry was based on North American Industry Classification System (NAICS) codes, which were provided by the applicant at the time of application filing. The top five NAICS codes were 447110/447190 – Gasoline Service Stations, 811121 – Automotive Body, Paint, and Interior Repair and Maintenance, 445110 – Supermarkets and Other Grocery, 324110 – Petroleum Refineries, and 812320 – Dry Cleaning and Laundry Services (except Coin-Operated).

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
111150	Corn Farming								1		1
111320	Citrus (except Orange) Groves								2		2
111332	Grape Vineyards							4			4
111920	Cotton Farming							1			1
111998	All Other Miscellaneous Crop Farming			1				1		2	4
112120	Dairy Cattle and Milk Production	1	1						3		5
112990	All Other Animal Production	1						1			2
115114	Postharvest Crop Activities (except Cotton Ginning)						1		4		5
115116	Farm Management Services		1								1
115210	Support Activities for Animal Production		5					1	2		8
211111	Crude Petroleum and Natural Gas Extraction – crude petroleum extraction	1		1		2	4	4	14	3	29
211120	Crude Petroleum Extraction	8	11			1		1	3		24
212312	Crushed and Broken Limestone Mining and Quarrying								3		3
212319	Other Crushed and Broken Stone Mining and Quarrying	1									1
212321	Construction Sand and Gravel Mining								2		2
213112	Support Activities for Oil and Gas Operations	1					1		3		5
221112	Fossil Fuel Electric Power Generation	1		1			2		11	9	24
221114	Solar Electric Power Generation								1		1
221118	Other Electric Power Generation	2	8	9			13	10	9	9	60

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
221121	Electric Bulk Power Transmission and Control							1			1
221122	Electric Power Distribution							2	13		15
221210	Natural Gas Distribution	3		7			7	2		1	20
221310	Water Supply and Irrigation Systems	6					3	22	30	1	62
221320	Sewage Treatment Facilities	3		12			4	15	31	3	68
221330	Steam and Air-Conditioning Supply							1	4	2	7
236115	New Single-Family Housing Construction (except For-Sale Builders)	9	6	1				9	8		33
236116	New Multifamily Housing Construction (except For-Sale Builders)							3	4		7
236118	Residential Remodelers	1						1	1		3
236220	Commercial and Institutional Building Construction	1					3	8	44		56
237120	Oil and Gas Pipeline and Related Structures Construction	3	7								10
237210	Land Subdivision	2	1					22	8		33
237310	Highway, Street, and Bridge Construction	1	9	1		1		1	4		17
237990	Other Heavy and Civil Engineering Construction	2									2
238110	Poured Concrete Foundation and Structure Contractors								3		3
238130	Framing Contractors	2		1					4		7
238160	Roofing Contractors	17									17
238210	Electrical Contractors and Other Wiring Installation Contractors	21						1	1		23

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
238220	Plumbing, Heating, and Air-Conditioning Contractors							4			4
238310	Drywall and Insulation Contractors	4									4
238320	Painting and Wall Covering Contractors	3	3						5		11
238340	Tile and Terrazzo Contractors								2		2
238350	Finish Carpentry Contractors		1								1
238390	Other Building Finishing Contractors			1					3		4
238910	Site Preparation Contractors	31						7			38
238990	All Other Specialty Trade Contractors	76	1					2	8		87
311211	Flour Milling								5		5
311412	Frozen Specialty Food Manufacturing	1									1
311421	Fruit and Vegetable Canning	5									5
311423	Dried and Dehydrated Food Manufacturing							1			1
311511	Fluid Milk Manufacturing		20	1			2		6	1	30
311513	Cheese Manufacturing							1			1
311611	Animal (except Poultry) Slaughtering	3		1			2	1	3	2	12
311612	Meat Processed from Carcasses						2		1		3
311613	Rendering and Meat Byproduct Processing			4			4		4	5	17
311811	Retail Bakeries		1								1
311812	Commercial Bakeries						3	2	4	1	10
311824	Dry Pasta, Dough, and Flour Mixes Manufacturing from Purchased Flour		1					1	1		3
311830	Tortilla Manufacturing						2		18		20

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
311919	Other Snack Food Manufacturing			4			4		3		11
311920	Coffee and Tea Manufacturing		6					2	2		10
311930	Flavoring Syrup and Concentrate Manufacturing								1		1
311941	Mayonnaise, Dressing, and Other Prepared Sauce Manufacturing							1	1		2
311942	Spice and Extract Manufacturing	12	41						2		55
311991	Perishable Prepared Food Manufacturing	1					4				5
311999	All Other Miscellaneous Food Manufacturing	8	2	2		1			6		19
312111	Soft Drink Manufacturing								2		2
312120	Breweries			7			10	1	3	3	24
312130	Wineries								2		2
312230	Tobacco Manufacturing		1						4		5
313210	Broadwoven Fabric Mills								4		4
313310	Textile and Fabric Finishing Mills			1			7		19	2	29
313320	Fabric Coating Mills			2			3		2		7
314110	Carpet and Rug Mills			3			7			2	12
314999	All Other Miscellaneous Textile Product Mills								1		1
315220	Men's and Boys' Cut and Sew Apparel Manufacturing	1						1			2
315990	Apparel Accessories and Other Apparel Manufacturing								3		3
321114	Wood Preservation								10		10
321211	Hardwood Veneer and Plywood Manufacturing								2		2

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
321911	Wood Window and Door Manufacturing								1		1
321912	Cut Stock, Resawing Lumber, and Planing								3		3
321918	Other Millwork (including Flooring)								9		9
321999	All Other Miscellaneous Wood Product Manufacturing								1		1
322121	Paper (except Newsprint) Mills	1	3	3			4			3	14
322130	Paperboard Mills		9					2	8	2	21
322211	Corrugated and Solid Fiber Box Manufacturing								1		1
322212	Folding Paperboard Box Manufacturing						1	1	1	1	4
322220	Paper Bag and Coated and Treated Paper Manufacturing		1				1		2		4
323111	Commercial Printing (except Screen and Books)	1	9				2	3	7	1	23
323113	Commercial Screen Printing			3					3		6
324110	Petroleum Refineries	1		17		6	44	26	34	38	166
324121	Asphalt Paving Mixture and Block Manufacturing		3	3		1	3		12	3	25
324122	Asphalt Shingle and Coating Materials Manufacturing			1		2	4	2	17	8	34
324191	Petroleum Lubricating Oil and Grease Manufacturing	2	1					1	5	1	10
325110	Petrochemical Manufacturing		1					1	7		9
325120	Industrial Gas Manufacturing	1		4			5	1	3	6	20
325180	Other Basic Inorganic Chemical Manufacturing			1				1	7	3	12
325193	Ethyl Alcohol Manufacturing								3		3

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
325199	All Other Basic Organic Chemical Manufacturing								1		1
325211	Plastics Material and Resin Manufacturing			4			2		41	2	49
325212	Synthetic Rubber Manufacturing		1						40	2	43
325311	Nitrogenous Fertilizer Manufacturing								12		12
325411	Medicinal and Botanical Manufacturing	4							2	2	8
325412	Pharmaceutical Preparation Manufacturing	2	24	1			1	4	15		47
325414	Biological Product (except Diagnostic) Manufacturing	1									1
325510	Paint and Coating Manufacturing						2	1	11		14
325520	Adhesive Manufacturing						3				3
325611	Soap and Other Detergent Manufacturing								1		1
325612	Polish and Other Sanitation Good Manufacturing								3		3
325620	Toilet Preparation Manufacturing		46					1	32		79
325991	Custom Compounding of Purchased Resins								1		1
325998	All Other Miscellaneous Chemical Product and Preparation Manufacturing								8		8
326111	Plastics Bag and Pouch Manufacturing								2		2
326112	Plastics Packaging Film and Sheet (including Laminated) Manufacturing			2			1		2		5
326113	Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing			1				1	2		4

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
326122	Plastics Pipe and Pipe Fitting Manufacturing			1					11		12
326130	Laminated Plastics Plate, Sheet (except Packaging), and Shape Manufacturing			2			1				3
326140	Polystyrene Foam Product Manufacturing	2							4	2	8
326150	Urethane and Other Foam Product (except Polystyrene) Manufacturing						3				3
326160	Plastics Bottle Manufacturing								1		1
326191	Plastics Plumbing Fixture Manufacturing						4		4		8
326199	All Other Plastics Product Manufacturing	1	4			1	1		21		28
326291	Rubber Product Manufacturing for Mechanical Use			3					2		5
327110	Pottery, Ceramics, and Plumbing Fixture Manufacturing		13								13
327120	Clay Building Material and Refractories Manufacturing								9		9
327212	Other Pressed and Blown Glass and Glassware Manufacturing			1						1	2
327213	Glass Container Manufacturing							1		1	2
327215	Glass Product Manufacturing Made of Purchased Glass								1		1
327310	Cement Manufacturing			12				2	6		20
327320	Ready-Mix Concrete Manufacturing		6				1		20		27

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
327331	Concrete Block and Brick Manufacturing								4		4
327390	Other Concrete Product Manufacturing								3		3
327410	Lime Manufacturing								6		6
327910	Abrasive Product Manufacturing								2		2
327992	Ground or Treated Mineral and Earth Manufacturing	1							1	1	3
331110	Iron and Steel Mills and Ferroalloy Manufacturing	1		5				1	3	3	13
331210	Iron and Steel Pipe and Tube Manufacturing from Purchased Steel			6							6
331221	Rolled Steel Shape Manufacturing								2		2
331222	Steel Wire Drawing			2					2		4
331315	Aluminum Sheet, Plate, and Foil Manufacturing		2	1							3
331318	Other Aluminum Rolling, Drawing, and Extruding	4	12	1				1	1	2	21
331410	Nonferrous Metal (except Aluminum) Smelting and Refining			1					2		3
331492	Secondary Smelting, Refining, and Alloying of Nonferrous Metal (except Copper and Aluminum)			2			1		10	2	15
331512	Steel Investment Foundries							2			2
331523	Nonferrous Metal Die-Casting Foundries			1							1
331524	Aluminum Foundries (except Die-Casting)			3					3	1	7
332111	Iron and Steel Forging			1			2		5	1	9
332112	Nonferrous Forging	1		22			4	1	41	6	75

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
332117	Powder Metallurgy Part Manufacturing								3		3
332311	Prefabricated Metal Building and Component Manufacturing	1							4		5
332321	Metal Window and Door Manufacturing			1			2		2		5
332322	Sheet Metal Work Manufacturing			1			2		23		26
332323	Ornamental and Architectural Metal Work Manufacturing								1		1
332431	Metal Can Manufacturing		2	4				5			11
332510	Hardware Manufacturing								2		2
332710	Machine Shops		2						6		8
332721	Precision Turned Product Manufacturing							2	4	1	7
332722	Bolt, Nut, Screw, Rivet, and Washer Manufacturing			5				1	19		25
332811	Metal Heat Treating								15	2	17
332812	Metal Coating, Engraving (except Jewelry and Silverware), and Allied Services to Manufacturers		5	2			3	1	16	1	28
332813	Electroplating, Plating, Polishing, Anodizing, and Coloring	4	8	26			14	4	52	2	110
332911	Industrial Valve Manufacturing								1		1
332912	Fluid Power Valve and Hose Fitting Manufacturing								1		1
332919	Other Metal Valve and Pipe Fitting Manufacturing			1							1

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
332994	Small Arms, Ordnance, and Ordnance Accessories Manufacturing		32	2							34
332996	Fabricated Pipe and Pipe Fitting Manufacturing						2	1	2	1	6
332999	All Other Miscellaneous Fabricated Metal Product Manufacturing								2		2
333111	Farm Machinery and Equipment Manufacturing								5		5
333120	Construction Machinery Manufacturing								14	3	17
333241	Food Product Machinery Manufacturing							2	2		4
333314	Optical Instrument and Lens Manufacturing						2				2
333318	Other Commercial and Service Industry Machinery Manufacturing		14						1		15
333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	1							2		3
333514	Special Die and Tool, Die Set, Jig, and Fixture Manufacturing			1							1
333517	Machine Tool Manufacturing								2		2
333612	Speed Changer, Industrial High-Speed Drive, and Gear Manufacturing							1	1		2
333613	Mechanical Power Transmission Equipment Manufacturing								1		1
333922	Conveyor and Conveying Equipment Manufacturing			1					2		3

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
333924	Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing						2	1	9		12
333994	Industrial Process Furnace and Oven Manufacturing								10		10
333996	Fluid Power Pump and Motor Manufacturing	3									3
333999	All Other Miscellaneous General Purpose Machinery Manufacturing		1						1		2
334118	Computer Terminal and Other Computer Peripheral Equipment Manufacturing							1			1
334220	Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing		5				1	9	2		17
334290	Other Communications Equipment Manufacturing								1		1
334412	Bare Printed Circuit Board Manufacturing		19								19
334413	Semiconductor and Related Device Manufacturing	1	2	1				5	10	1	20
334417	Electronic Connector Manufacturing								1		1
334418	Printed Circuit Assembly (Electronic Assembly) Manufacturing		8	1				2	8		19
334419	Other Electronic Component Manufacturing	1	3						2		6
334510	Electromedical and Electrotherapeutic Apparatus Manufacturing	1	1					3	3		8
334511	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical	1	23	3					2	2	31

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
	System and Instrument Manufacturing										
334513	Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling Industrial Process Variables								1		1
334516	Analytical Laboratory Instrument Manufacturing							1			1
334519	Other Measuring and Controlling Device Manufacturing								1		1
334614	Software and Other Prerecorded Compact Disc, Tape, and Record Reproducing							1			1
335122	Commercial, Industrial, and Institutional Electric Lighting Fixture Manufacturing		2								2
335311	Power, Distribution, and Specialty Transformer Manufacturing							1	2		3
335313	Switchgear and Switchboard Apparatus Manufacturing		7	2					2		11
335911	Storage Battery Manufacturing							1	26		27
335991	Carbon and Graphite Product Manufacturing			19					1		20
335999	All Other Miscellaneous Electrical Equipment and Component Manufacturing		34						5		39
336111	Automobile Manufacturing		2						1		3
336211	Motor Vehicle Body Manufacturing		1						1		2

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
336214	Travel Trailer and Camper Manufacturing								1		1
336390	Other Motor Vehicle Parts Manufacturing			1			1	1	7	1	11
336411	Aircraft Manufacturing			5			6	3	13	2	29
336412	Aircraft Engine and Engine Parts Manufacturing			6			6	3	10	4	29
336413	Other Aircraft Parts and Auxiliary Equipment Manufacturing		1	11			6	2	12		32
336414	Guided Missile and Space Vehicle Manufacturing			9					17		26
336415	Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing				1						1
336419	Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing	1		1			3	1	1	1	8
336991	Motorcycle, Bicycle, and Parts Manufacturing							1	1		2
337110	Wood Kitchen Cabinet and Countertop Manufacturing								1		1
337121	Upholstered Household Furniture Manufacturing						1		3		4
337122	Non-upholstered Wood Household Furniture Manufacturing								1		1
337127	Institutional Furniture Manufacturing								4		4
337212	Custom Architectural Woodwork and Millwork Manufacturing								2		2

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
337215	Showcase, Partition, Shelving, and Locker Manufacturing								6	1	7
339112	Surgical and Medical Instrument Manufacturing	2	2	1				3	5		13
339113	Surgical Appliance and Supplies Manufacturing	4	3						1		8
339114	Dental Equipment and Supplies Manufacturing			2					4		6
339115	Ophthalmic Goods Manufacturing	1					1	1			3
339950	Sign Manufacturing		2				2		1		5
339991	Gasket, Packing, and Sealing Device Manufacturing								1		1
339992	Musical Instrument Manufacturing								2		2
339999	All Other Miscellaneous Manufacturing								3		3
423110	Automobile and Other Motor Vehicle Merchant Wholesalers							1	11		12
423120	Motor Vehicle Supplies and New Parts Merchant Wholesalers		1					1	5		7
423130	Tire and Tube Merchant Wholesalers			9					4		13
423140	Motor Vehicle Parts (Used) Merchant Wholesalers								4		4
423210	Furniture Merchant Wholesalers						1		2		3
423220	Home Furnishing Merchant Wholesalers		12	1					4		17
423310	Lumber, Plywood, Millwork, and Wood Panel Merchant Wholesalers								1		1

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
423320	Brick, Stone, and Related Construction Material Merchant Wholesalers	1	8			1		1	5		16
423430	Computer and Computer Peripheral Equipment and Software Merchant Wholesalers							1	2		3
423440	Other Commercial Equipment Merchant Wholesalers								2		2
423450	Medical, Dental, and Hospital Equipment and Supplies Merchant Wholesalers		1				4		5		10
423490	Other Professional Equipment and Supplies Merchant Wholesalers							1			1
423510	Metal Service Centers and Other Metal Merchant Wholesalers	7	22	5			2		2	2	40
423520	Coal and Other Mineral and Ore Merchant Wholesalers							1			1
423610	Electrical Apparatus and Equipment, Wiring Supplies, and Related Equipment Merchant Wholesalers	1							2		3
423690	Other Electronic Parts and Equipment Merchant Wholesalers	1						4	2	1	8
423710	Hardware Merchant Wholesalers			1							1
423740	Refrigeration Equipment and Supplies Merchant Wholesalers								1		1

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
423810	Construction and Mining (except Oil Well) Machinery and Equipment Merchant Wholesalers	27							5		32
423830	Industrial Machinery and Equipment Merchant Wholesalers			1				1	3		5
423840	Industrial Supplies Merchant Wholesalers	3		2					9		14
423860	Transportation Equipment and Supplies (except Motor Vehicle) Merchant Wholesalers			2				1			3
423910	Sporting and Recreational Goods and Supplies Merchant Wholesalers								1		1
423920	Toy and Hobby Goods and Supplies Merchant Wholesalers						1				1
423930	Recyclable Material Merchant Wholesalers			1					7		8
423990	Other Miscellaneous Durable Goods Merchant Wholesalers		1					2	7	1	11
424210	Drugs and Druggists' Sundries Merchant Wholesalers	2									2
424320	Men's and Boys' Clothing and Furnishings Merchant Wholesalers							1			1
424340	Footwear Merchant Wholesalers								1		1
424410	General Line Grocery Merchant Wholesalers	1						2			3
424430	Dairy Product (except Dried or Canned) Merchant Wholesalers								1		1

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
424450	Confectionery Merchant Wholesalers								1		1
424480	Fresh Fruit and Vegetable Merchant Wholesalers		1								1
424490	Other Grocery and Related Products Merchant Wholesalers							3	2		5
424690	Other Chemical and Allied Products Merchant Wholesalers			1					28		29
424710	Petroleum Bulk Stations and Terminals		21	4		2	2	4	8	1	42
424720	Petroleum and Petroleum Products Merchant Wholesalers (except Bulk Stations and Terminals)		6					2	23	2	33
424810	Beer and Ale Merchant Wholesalers								6		6
424910	Farm Supplies Merchant Wholesalers								2		2
424950	Paint, Varnish, and Supplies Merchant Wholesalers								5		5
424990	Other Miscellaneous Nondurable Goods Merchant Wholesalers	1	18	2			2	2	3	2	30
441110	New Car Dealers	1	6					1	9		17
441120	Used Car Dealers							1	2		3
441210	Recreational Vehicle Dealers								2		2
441228	Motorcycle, ATV, and All Other Motor Vehicle Dealers		2						2		4
441310	Automotive Parts and Accessories Stores		3					2	2		7
441320	Tire Dealers							1	1		2
442110	Furniture Stores								6		6

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
442210	Floor Covering Stores			5							5
442299	All Other Home Furnishings Stores	1							2		3
443141	Household Appliance Stores								1		1
443142	Electronics Stores		1					7	1		9
444110	Home Centers	1							2	1	4
444120	Paint and Wallpaper Stores		2						1		3
444190	Other Building Material Dealers							2	11		13
444220	Nursery, Garden Center, and Farm Supply Stores			1					2		3
445110	Supermarkets and Other Grocery (except Convenience) Stores	4	7	1			5	391	30	5	443
445120	Convenience Stores		4	1			1	14	34		54
445210	Meat Markets	1									1
445291	Baked Goods Stores	1							1		2
445299	All Other Specialty Food Stores								1		1
446110	Pharmacies and Drug Stores							16	1		17
446120	Cosmetics, Beauty Supplies, and Perfume Stores	1									1
446191	Food (Health) Supplement Stores	2							1		3
447110	Gasoline Stations with Convenience Stores		84	3	1		5	1	212	1	307
447190	Other Gasoline Stations	1	109	9	3		7	3	261	2	395
448120	Women's Clothing Stores							1	1		2
448140	Family Clothing Stores	1	1					2	1		5
448150	Clothing Accessories Stores							1			1
448190	Other Clothing Stores								2		2
448210	Shoe Stores								1		1
448310	Jewelry Stores	1	1								2

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
451110	Sporting Goods Stores			1					1		2
452111	Department Stores (except Discount Department Stores)							3			3
452112	Discount Department Stores – insignificant perishable grocery sales								1		1
452210	Department Stores	3						18	3		24
452311	Warehouse Clubs and Supercenters	4				1	3		34		42
453110	Florists	2	4					3	2		11
453210	Office Supplies and Stationery Stores		2						2		4
453310	Used Merchandise Stores								1		1
453910	Pet and Pet Supplies Stores								1		1
453920	Art Dealers								1		1
453998	All Other Miscellaneous Store Retailers (except Tobacco Stores)	1	4	1				4	2		12
454110	Electronic Shopping and Mail-Order Houses		1								1
454310	Fuel Dealers		2						5		7
454390	Other Direct Selling Establishments								3		3
481111	Scheduled Passenger Air Transportation							1			1
481112	Scheduled Freight Air Transportation			1					1		2
482111	Line-Haul Railroads	1							1		2
484110	General Freight Trucking, Local	1	1						2		4
484121	General Freight Trucking, Long-Distance, Truckload								2		2
485113	Bus and Other Motor Vehicle Transit Systems	6						1	3		10

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
485310	Taxi Service	1						2	4		7
485410	School and Employee Bus Transportation								1		1
485510	Charter Bus Industry		1								1
486110	Pipeline Transportation of Crude Oil		34			1	1	3	4	5	48
486210	Pipeline Transportation of Natural Gas	3					2	2		4	11
486910	Pipeline Transportation of Refined Petroleum Products			6			2			1	9
488111	Air Traffic Control	1									1
488119	Other Airport Operations	3						1	1		5
488190	Other Support Activities for Air Transportation			4				3	13	7	27
488210	Support Activities for Rail Transportation							1			1
488310	Port and Harbor Operations		2						2		4
488320	Marine Cargo Handling	1									1
488410	Motor Vehicle Towing		4								4
488510	Freight Transportation Arrangement	1	1						6		8
488999	All Other Support Activities for Transportation	2		3				6	4	2	17
491110	Postal Service							2	1		3
492110	Couriers and Express Delivery Services								2		2
493110	General Warehousing and Storage	26	2	3				6	42		79
493120	Refrigerated Warehousing and Storage		2					1			3
493190	Other Warehousing and Storage							3	5	1	9
511110	Newspaper Publishers	1	2					1			4
511130	Book Publishers							1			1
511199	All Other Publishers		3								3

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
511210	Software Publishers		1					3			4
512110	Motion Picture and Video Production	4						15	2		21
512120	Motion Picture and Video Distribution			1					9		10
512191	Teleproduction and Other Postproduction Services								2		2
512199	Other Motion Picture and Video Industries							1			1
512240	Sound Recording Studios							1			1
515111	Radio Networks								1		1
515112	Radio Stations			4							4
515120	Television Broadcasting		1					2	1		4
515210	Cable and Other Subscription Programming							3			3
517110	Wired Telecommunications Carriers							12			12
517312	Wireless Telecommunications Carriers (except Satellite)	7		1				48			56
517410	Satellite Telecommunications								1		1
517911	Telecommunications Resellers							95	5		100
517919	All Other Telecommunications	1	1					9			11
518210	Data Processing, Hosting, and Related Services	1									1
519120	Libraries and Archives							6			6
521110	Monetary Authorities-Central Bank								1		1
522110	Commercial Banking	1						8	1		10
522120	Savings Institutions							1			1
522130	Credit Unions	1	4					4	1	1	11
522292	Real Estate Credit							1			1

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
522298	All Other Non-depository Credit Intermediation							1			1
522310	Mortgage and Nonmortgage Loan Brokers		2					4			6
522320	Financial Transactions Processing, Reserve, and Clearinghouse Activities		1								1
522390	Other Activities Related to Credit Intermediation							1			1
523120	Securities Brokerage		4					5			9
523130	Commodity Contracts Dealing	1									1
523910	Miscellaneous Intermediation	2	4						1		7
523920	Portfolio Management							3			3
523930	Investment Advice	3						1	2		6
523999	Miscellaneous Financial Investment Activities		1					1			2
524113	Direct Life Insurance Carriers							1			1
524114	Direct Health and Medical Insurance Carriers							3			3
524126	Direct Property and Casualty Insurance Carriers		1								1
524128	Other Direct Insurance (except Life, Health, and Medical) Carriers								1		1
524210	Insurance Agencies and Brokerages		2					5			7
525920	Trusts, Estates, and Agency Accounts	1		3							4
525990	Other Financial Vehicles	1									1
531110	Lessors of Residential Buildings and Dwellings	1	8	1				17	10		37

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
531120	Lessors of Nonresidential Buildings (except Miniwarehouses)	2	1					11	6		20
531130	Lessors of Miniwarehouses and Self-Storage Units	5									5
531190	Lessors of Other Real Estate Property		1	5				3	3		12
531210	Offices of Real Estate Agents and Brokers	5	4	1			1	30	11		52
531311	Residential Property Managers							1			1
531312	Nonresidential Property Managers	1	5				2	5	13		26
532111	Passenger Car Rental								1		1
532120	Truck, Utility Trailer, and RV (Recreational Vehicle) Rental and Leasing								2		2
532289	All Other Consumer Goods Rental								1		1
532299	All Other Consumer Goods Rental							2			2
532411	Commercial Air, Rail, and Water Transportation Equipment Rental and Leasing							1	1		2
532412	Construction, Mining, and Forestry Machinery and Equipment Rental and Leasing	2	1						1		4
532490	Other Commercial and Industrial Machinery and Equipment Rental and Leasing		3					1	8		12
541110	Offices of Lawyers	4						6	2		12
541211	Offices of Certified Public Accountants		2						1		3

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
541213	Tax Preparation Services					1			2		3
541219	Other Accounting Services							1	1		2
541310	Architectural Services							5			5
541330	Engineering Services			1			2	8	2		13
541380	Testing Laboratories							2	2		4
541410	Interior Design Services	1							2		3
541490	Other Specialized Design Services								6		6
541511	Custom Computer Programming Services							3			3
541512	Computer Systems Design Services	1						2			3
541513	Computer Facilities Management Services	4	3								7
541611	Administrative Management and General Management Consulting Services	13		1				1	25		40
541612	Human Resources Consulting Services							1			1
541613	Marketing Consulting Services		1	4		42			2		49
541618	Other Management Consulting Services		2	1				2	5		10
541620	Environmental Consulting Services	62	1	1				6	27		97
541690	Other Scientific and Technical Consulting Services	4						2	3		9
541712	Research and Development in the Physical, Engineering, and Life Sciences (except Biotechnology) – nanotechnology research and experimental development laboratories	2						1	6		9

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
541714	Research and Development in Biotechnology (except Nanobiotechnology)	1									1
541715	Research and Development in the Physical, Engineering, and Life Sciences (except Nanotechnology and Biotechnology)	1	1								2
541810	Advertising Agencies							1			1
541860	Direct Mail Advertising							1	4		5
541910	Marketing Research and Public Opinion Polling							1	1		2
541921	Photography Studios, Portrait							1			1
541940	Veterinary Services		3						2		5
541990	All Other Professional, Scientific, and Technical Services		2					8	8		18
551111	Offices of Bank Holding Companies							2			2
551112	Offices of Other Holding Companies		1					1	2		4
561110	Office Administrative Services		4					11	13	1	29
561210	Facilities Support Services	17							2		19
561311	Employment Placement Agencies		5					4	4		13
561320	Temporary Help Services								1		1
561421	Telephone Answering Services							2			2
561440	Collection Agencies	1						1			2
561499	All Other Business Support Services	2	6	1	1			7	18		35
561520	Tour Operators								1		1

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
561612	Security Guards and Patrol Services							1			1
561622	Locksmiths							1	1		2
561710	Exterminating and Pest Control Services							1	1	3	5
561720	Janitorial Services	4	3					11	3		21
561730	Landscaping Services								2		2
561740	Carpet and Upholstery Cleaning Services		1								1
561790	Other Services to Buildings and Dwellings	2	1					1	4		8
561910	Packaging and Labeling Services								3		3
561920	Convention and Trade Show Organizers								1		1
561990	All Other Support Services	6	2					7	6	1	22
562211	Hazardous Waste Treatment and Disposal	2						4	5		11
562212	Solid Waste Landfill	1	9	1				6	12		29
562219	Other Nonhazardous Waste Treatment and Disposal								4		4
562910	Remediation Services	45							1		46
562920	Materials Recovery Facilities	12							10		22
611110	Elementary and Secondary Schools	1		3				46	7		57
611210	Junior Colleges	5						7	4		16
611310	Colleges, Universities, and Professional Schools	7	2					25	14	1	49
611519	Other Technical and Trade Schools								11		11
611620	Sports and Recreation Instruction								1		1
611699	All Other Miscellaneous Schools and Instruction							1			1

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
621111	Offices of Physicians (except Mental Health Specialists)	2	1					9	3		15
621210	Offices of Dentists						1	6	1		8
621310	Offices of Chiropractors							1			1
621330	Offices of Mental Health Practitioners (except Physicians)							1	1		2
621340	Offices of Physical, Occupational and Speech Therapists, and Audiologists							1			1
621410	Family Planning Centers							2			2
621491	HMO Medical Centers		1					3	5		9
621492	Kidney Dialysis Centers								1		1
621498	All Other Outpatient Care Centers								1		1
621511	Medical Laboratories									1	1
621512	Diagnostic Imaging Centers		1								1
621610	Home Health Care Services							1			1
621910	Ambulance Services	1									1
621999	All Other Miscellaneous Ambulatory Health Care Services		1					2	5		8
622110	General Medical and Surgical Hospitals	5						36	27	1	69
622210	Psychiatric and Substance Abuse Hospitals			1			1	1		1	4
622310	Specialty (except Psychiatric and Substance Abuse) Hospitals							3		1	4
623110	Nursing Care Facilities (Skilled Nursing Facilities)		1					2	5		8
623311	Continuing Care Retirement Communities								1		1

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
623990	Other Residential Care Facilities	1									1
624110	Child and Youth Services							1	2		3
624120	Services for the Elderly and Persons with Disabilities								1		1
624190	Other Individual and Family Services							3			3
624310	Vocational Rehabilitation Services		2								2
624410	Child Day Care Services							4			4
711190	Other Performing Arts Companies								1		1
711211	Sports Teams and Clubs							2	2		4
711212	Racetracks		1								1
711310	Promoters of Performing Arts, Sports, and Similar Events with Facilities							1	1		2
711510	Independent Artists, Writers, and Performers		1						1		2
712110	Museums							5			5
713110	Amusement and Theme Parks	9						1	22	1	33
713910	Golf Courses and Country Clubs	3	4					1	2		10
713920	Skiing Facilities								1	1	2
713940	Fitness and Recreational Sports Centers							3			3
713990	All Other Amusement and Recreation Industries								1		1
721110	Hotels (except Casino Hotels) and Motels	7	6					23	3		39
721191	Bed-and-Breakfast Inns								5	1	6
721211	RV (Recreational Vehicle) Parks and Campgrounds	1						2	1		4

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
722410	Drinking Places (Alcoholic Beverages)	1						2			3
722511	Full-Service Restaurants	29	2	1				3	6		41
722513	Limited-Service Restaurants	24						3	12		39
722514	Cafeterias, Grill Buffets, and Buffets							1			1
811111	General Automotive Repair	15	9	3	1		1	3	25		57
811112	Automotive Exhaust System Repair								1		1
811118	Other Automotive Mechanical and Electrical Repair and Maintenance		2						4		6
811121	Automotive Body, Paint, and Interior Repair and Maintenance		146	5				5	91		247
811192	Car Washes		2					2	10		14
811198	All Other Automotive Repair and Maintenance		2					1	1		4
811219	Other Electronic and Precision Equipment Repair and Maintenance			1					20		21
811310	Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance			1					7		8
811412	Appliance Repair and Maintenance	9	4	11				2	6		32
811420	Reupholstery and Furniture Repair		1					1	5		7
812199	Other Personal Care Services							1			1
812210	Funeral Homes and Funeral Services		3						6		9
812220	Cemeteries and Crematories		17	1				3	2		23

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
812310	Coin-Operated Laundries and Drycleaners	1		1					5		7
812320	Dry Cleaning and Laundry Services (except Coin-Operated)	1	16	1				1	104		123
812331	Linen Supply								1		1
812332	Industrial Launderers								4		4
812910	Pet Care (except Veterinary) Services							1	1		2
812921	Photofinishing Laboratories (except One-Hour)							1			1
812930	Parking Lots and Garages							3			3
813110	Religious Organizations	1						12	1		14
813312	Environment, Conservation and Wildlife Organizations							1			1
813410	Civic and Social Organizations							4	5		9
813910	Business Associations		1					3			4
813920	Professional Organizations							2			2
813930	Labor Unions and Similar Labor Organizations		1								1
813990	Other Similar Organizations (except Business, Professional, Labor, and Political Organizations)	1	1	1				7	3		13
921110	Executive Offices	21		1				17	17		56
921120	Legislative Bodies							1			1
921140	Executive and Legislative Offices, Combined							1			1
921190	Other General Government Support	5						15	11		31
922110	Courts	1						16			17
922120	Police Protection	1						7	1	2	11
922130	Legal Counsel and Prosecution							1			1

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
922140	Correctional Institutions	1						2	1		4
922150	Parole Offices and Probation Offices							2			2
922160	Fire Protection	1	6						4		11
922190	Other Justice, Public Order, and Safety Activities	1						1			2
923110	Administration of Education Programs							2			2
923120	Administration of Public Health Programs							1			1
923130	Administration of Human Resource Programs (except Education, Public Health, and Veterans' Affairs Programs)							2	1		3
924110	Administration of Air and Water Resource and Solid Waste Management Programs	2						7	2	1	12
924120	Administration of Conservation Programs	1									1
925120	Administration of Urban Planning and Community and Rural Development								1		1
926120	Regulation and Administration of Transportation Programs	1		1				3	5		10
926130	Regulation and Administration of Communications, Electric, Gas, and Other Utilities	13					2	4	2	5	26
927110	Space Research and Technology							2			2
928110	National Security	2	3					7	11	2	25

Table 2- Calendar Year 2020-Disposition Type by NAICS Code

NAICS Code	NAICS Code Description	Area Source/ Registration	C/O	Cancelled	Denial	ERC	Permit to Construct	Plans	PO	RECLAIM/TV	Grand Total
424130	Industrial and Personal Service Paper Merchant Wholesalers							1			1
424310	Piece Goods, Notions, and Other Dry Goods Merchant Wholesalers							1			1
523991	Trust, Fiduciary, and Custody Activities							1			1
541320	Landscape Architectural Services							1			1
562112	Hazardous Waste Collection							1			1
#N/A	#N/A	5	19	2		1		56	61		144
Grand Total		795	1,164	398	7	64	280	1,602	2,920	222	7,452

**Annualized Publication of Emission Reduction Credit (ERC)
And Short-Term Emission Reduction Credit (STERC)
Transactions for Fiscal Year 2019-20¹
(California Health and Safety Code Section 40452)**

Pursuant to paragraph (c) of section 40452 of the California Health and Safety Code, this report summarizes data on emission offset transactions and applications, by pollutant, during the previous fiscal year. Note that during Fiscal Year 2019-20, no applications were denied for a permit for a new source because of the unavailability of emission offsets.

Table 3 summarizes privately held Emission Reduction Credit (ERC) and Short-Term Emission Reduction Credit (STERC) transactions for Fiscal Year 2019-20, including totals, by pollutant, of the number of emission offset transactions and the quantity of emission offsets transferred in units of pounds per day and tons per year. Table 4 summarizes ERC banking applications processed during Fiscal Year 2019-20, including the number of newly generated STERCs by pollutant in units of pounds per day and tons per year.

Tables 5 and 6 provide details on the amount of each emission offset transaction and processed ERC banking application, respectively.

Table 3: Emission Offset Transactions – Fiscal Year 2019-20

Criteria Pollutant	Number of Emission Offset Transfer Transactions ²				Quantity of Emission Offsets Transferred ³ (lb/day)				Annualized Quantity of Emission Offsets Transferred ³ (ton/year ⁴)			
	ERC	STERC ⁵	STERC ⁶	TOTAL	ERC	STERC ⁵	STERC ⁶	TOTAL	ERC	STERC ⁵	STERC ⁶	TOTAL
ROG	19	2	0	21	704	32	0	736	128.5	5.8	0	134.3
NOX	19	0	0	19	461	0	0	461	84.1	0	0	84.1
SOX	11	0	0	11	181	0	0	181	33	0	0	33
CO	0	0	0	0	0	0	0	0	0	0	0	0
PM10	7	2	0	9	15	8	0	23	2.7	1.5	0	4.2

Table 4: Emission Offset Applications – Fiscal Year 2019-20

Criteria Pollutant	Number of Banking Applications Resulting in the Issuance of New STERCs ⁷	Quantity of Emission Reductions Achieved (STERCs) ⁸ (lb/day)	Annualized Quantity of Emission Reductions Achieved ⁸ (ton/year ⁹)
ROG	0	0	0
NOX	0	0	0
SOX	0	0	0
CO	0	0	0
PM10	0	0	0

¹ This report does not include RECLAIM Trading Credit (RTC) transactions.

² Includes all emission offset certificates that transferred ownership.

³ Includes the total amount of emission offsets transferred.

⁴ Sum of individual transactions in Table 5.

⁵ STERC transfer transactions including the long-term emission offset, those that have an ending year of 9999.

⁶ STERC transfer transactions not including the long-term emission offset in which the emission offset with the greatest year is treated like a long term emission offset.

⁷ Includes all emission offset applications resulting in the generation of new certificates.

⁸ Includes the total amount of emission offsets generated.

⁹ Sum of individual transactions in Table 6.

Annual Publication of Emission Reduction Credit (ERC) and Short-Term Emission Reduction Credit (STERC) Transactions and Applications for Fiscal Year 2019-20

**Table 5: Emission Offset Transaction Summary – Fiscal Year 2019-20
Sorted by Pollutant and Amount**

South Coast AQMD NO.	POLLUTANT	AMOUNT (LB/DAY)	AMOUNT (TON/YR)	TYPE	START YEAR	END YEAR
SC1920-001	ROG	69	12.6	ERC	N/A	N/A
SC1920-002	ROG	1	0.2	ERC	N/A	N/A
SC1920-003	ROG	10	1.8	ERC	N/A	N/A
SC1920-004	ROG	37	6.8	ERC	N/A	N/A
SC1920-005	ROG	1	0.2	ERC	N/A	N/A
SC1920-006	ROG	12	2.2	ERC	N/A	N/A
SC1920-007	ROG	0	0	STERC	2019	2019
SC1920-008	ROG	0	0	STERC	2020	2020
SC1920-009	ROG	25	4.6	STERC	2021	9999
SC1920-010	ROG	12	2.2	ERC	N/A	N/A
SC1920-011	ROG	3	0.5	ERC	N/A	N/A
SC1920-012	ROG	3	0.5	ERC	N/A	N/A
SC1920-013	ROG	3	0.5	ERC	N/A	N/A
SC1920-014	ROG	3	0.5	ERC	N/A	N/A
SC1920-015	ROG	3	0.5	ERC	N/A	N/A
SC1920-016	ROG	3	0.5	ERC	N/A	N/A
SC1920-017	ROG	0	0	STERC	2020	2020
SC1920-018	ROG	7	1.3	STERC	2021	9999
SC1920-019	ROG	3	0.5	ERC	N/A	N/A
SC1920-020	ROG	5	0.9	ERC	N/A	N/A
SC1920-021	ROG	11	2	ERC	N/A	N/A
SC1920-022	ROG	412	75.2	ERC	N/A	N/A
SC1920-023	ROG	100	18.3	ERC	N/A	N/A
SC1920-024	ROG	13	2.4	ERC	N/A	N/A
Total		736	134.2		N/A	

Table 5, Continued

South Coast AQMD NO.	POLLUTANT	AMOUNT (LB/DAY)	AMOUNT (TON/YR)	TYPE	START YEAR	END YEAR
SC1920-025	NOX	53	9.7	ERC	N/A	N/A
SC1920-026	NOX	1	0.2	ERC	N/A	N/A
SC1920-027	NOX	1	0.2	ERC	N/A	N/A
SC1920-028	NOX	3	0.5	ERC	N/A	N/A
SC1920-029	NOX	3	0.5	ERC	N/A	N/A
SC1920-030	NOX	5	0.9	ERC	N/A	N/A
SC1920-031	NOX	13	2.4	ERC	N/A	N/A
SC1920-032	NOX	40	7.3	ERC	N/A	N/A
SC1920-033	NOX	77	14.1	ERC	N/A	N/A

Annual Publication of Emission Reduction Credit (ERC) and Short-Term Emission Reduction Credit (STERC) Transactions and Applications for Fiscal Year 2019-20

South Coast AQMD NO.	POLLUTANT	AMOUNT (LB/DAY)	AMOUNT (TON/YR)	TYPE	START YEAR	END YEAR
SC1920-034	NOX	1	0.2	ERC	N/A	N/A
SC1920-035	NOX	5	0.9	ERC	N/A	N/A
SC1920-036	NOX	6	1.1	ERC	N/A	N/A
SC1920-037	NOX	14	2.6	ERC	N/A	N/A
SC1920-038	NOX	17	3.1	ERC	N/A	N/A
SC1920-039	NOX	21	3.8	ERC	N/A	N/A
SC1920-040	NOX	44	8	ERC	N/A	N/A
SC1920-041	NOX	3	0.5	ERC	N/A	N/A
SC1920-042	NOX	137	25	ERC	N/A	N/A
SC1920-043	NOX	17	3.1	ERC	N/A	N/A
Total		461	84.1	N/A		

Table 5, Continued

South Coast AQMD NO.	POLLUTANT	AMOUNT (LB/DAY)	AMOUNT (TON/YR)	TYPE	START YEAR	END YEAR
SC1920-044	SOX	75	13.7	ERC	N/A	N/A
SC1920-045	SOX	47	8.6	ERC	N/A	N/A
SC1920-046	SOX	10	1.8	ERC	N/A	N/A
SC1920-047	SOX	10	1.8	ERC	N/A	N/A
SC1920-048	SOX	5	0.9	ERC	N/A	N/A
SC1920-049	SOX	1	0.2	ERC	N/A	N/A
SC1920-050	SOX	1	0.2	ERC	N/A	N/A
SC1920-051	SOX	1	0.2	ERC	N/A	N/A
SC1920-052	SOX	3	0.5	ERC	N/A	N/A
SC1920-053	SOX	22	4	ERC	N/A	N/A
SC1920-054	SOX	6	1.1	ERC	N/A	N/A
Total		181	33	N/A		

Table 5, Continued

South Coast AQMD NO.	POLLUTANT	AMOUNT (LB/DAY)	AMOUNT (TON/YR)	TYPE	START YEAR	END YEAR
N/A	CO	No Applications				
Total		0	0	N/A		

Annual Publication of Emission Reduction Credit (ERC) and Short-Term Emission Reduction Credit (STERC) Transactions and Applications for Fiscal Year 2019-20

Table 5, Continued

South Coast AQMD NO.	POLLUTANT	AMOUNT (LB/DAY)	AMOUNT (TON/YR)	TYPE	START YEAR	END YEAR
SC1920-055	PM10	7	1.3	STERC	2014	9999
SC1920-056	PM10	1	0.2	ERC	N/A	N/A
SC1920-057	PM10	2	0.4	ERC	N/A	N/A
SC1920-058	PM10	2	0.4	ERC	N/A	N/A
SC1920-059	PM10	1	0.2	STERC	2015	9999
SC1920-060	PM10	1	0.2	ERC	N/A	N/A
SC1920-061	PM10	4	0.7	ERC	N/A	N/A
SC1920-062	PM10	4	0.7	ERC	N/A	N/A
SC1920-063	PM10	1	0.2	ERC	N/A	N/A
Total		23	4.3		N/A	

**Table 6: Emission Offset Application Summary – Fiscal Year 2019-20
Sorted by Pollutant and Amount**

South Coast AQMD NO.	POLLUTANT	AMOUNT¹⁰ (LB/DAY)	AMOUNT¹⁰ (TON/YR)	TYPE	START YEAR	END YEAR
N/A	No Applications					
Total		N/A	N/A		N/A	

¹⁰ To avoid over counting, only long-term emission offsets, those that have an ending year of 9999, are quantified.

CHAPTER III
FISCAL YEAR 2021-2022 BUDGET

Due to the bulk of these material, Chapter III is available online at www.aqmd.gov/docs/default-source/finance-budgets/fy-2021-22/adopted-fy-2021-22-budget.pdf. Anyone who would like to obtain a hard copy may do so by contacting South Coast AQMD's Public Information Center at (909)396-2001.

CHAPTER IV
CLEAN FUELS PROGRAM 2020 ANNUAL REPORT AND 2021 PLAN UPDATE

Due to the bulk of these material, Chapter IV is available online at www.aqmd.gov/docs/default-source/technology-research/annual-reports-and-plan-updates/2020-annual-report-2021-plan-update.pdf. Anyone who would like to obtain a hard copy may do so by contacting South Coast AQMD's Public Information Center at (909)396-2001.

**CHAPTER V
ANNUAL RECLAIM AUDIT REPORT
FOR 2019 COMPLIANCE YEAR**

Due to the bulk of these material, Chapter V is available online at [2019-reclaim-report.pdf](https://www.aqmd.gov/2019-reclaim-report.pdf) ([aqmd.gov](https://www.aqmd.gov)). Anyone who would like to obtain a hard copy may do so by contacting South Coast AQMD's Public Information Center at (909)396-2001.