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BOARD MEETING DATE: January 12, 1996

AGENDA NO. 24

PROPOSAL:

Public Hearing on the First Annual RECLAIM Program Audit

Report

SYNOPSIS:

In accordance with Rule 2015 - Backstop Provisions, the first annual report on the NOx and SOx RECLAIM program has been prepared and is presented for a public hearing. The report assesses emission reductions, average annual price and availability of RTCs, job impacts, compliance issues and other measures of performance.

COMMITTEE:

Stationary Source Committee, November 16, 1995, Approved.

Executive Officer

RECOMMENDED ACTION:

Approve the attached report.

PL:CC:CM:EMM:KCC:scs

Attachment

First Annual RECLAIM Program Audit Report

Background

On October 15, 1993, AQMD Governing Board adopted the RECLAIM program. The goal of the RECLAIM program is to provide facilities with added flexibility in meeting emission reduction requirements and lower the cost of compliance. The RECLAIM program was designed to meet all state and federal requirements for clean air programs as well as other performance criteria for air quality improvement, enforcement, implementation cost, job impacts and public health impacts.

Since RECLAIM is a significant departure from traditional command-and-control regulations, the RECLAIM rules provide for periodic program audits in order to verify that the

RECLAIM objectives are being met. Rule 2015 requires both annual audits focusing on specific issues, and more comprehensive three-year audits. The results of the audits will be used to determine whether any program modifications are appropriate.

The first annual RECLAIM program audit report has been prepared by AQMD staff. The period covered by the audit includes the first full year of implementation of the program for all RECLAIM facilities. Pursuant to Rule 2015, the audit report is presented for a public hearing, and will be included in the AQMD annual performance report to the California legislature.

Audit Findings

The audit findings indicate that the implementation of RECLAIM during the first compliance year was highly successful. The analysis indicates that:

- RECLAIM is meeting its emission reduction goals. Aggregate actual emissions from RECLAIM facilities were below allocations for the first compliance year. If emissions and available credits remain constant at current levels, a "crossover" point where the supply of RECLAIM Trading Credits (RTCs) equals emission levels will be reached in the 1997-98 time frame for NOx and the 1998-99 time frame for SOx. This excess of credits in the early years of the program is consistent with the program design.
- An active trading market for RTCs has developed. More than \$10 million of trades have been registered in the NOx and SOx markets combined, and sufficient RTCs are available to meet the demand of RECLAIM facilities. Average NOx RTC prices range from \$26/ton for 1994 to about \$1,500/ton for 2010. Average SOx RTC prices range from \$13/ton for 1994 to about \$960/ton for 1996 through 1998. Average prices exclude RTCs which were transferred with a price of \$0, such as transfers between facilities of common ownership. These prices are well below the backstop price of \$15,000/ton established in Rule 2015.
- RECLAIM has not accelerated business closures. Eleven RECLAIM facilities, equal to three percent of the RECLAIM universe of 353 facilities, have gone out of business since the program began, but RECLAIM was cited as a contributing factor by only one of the eleven shutdown facilities. Two new facilities started operations under RECLAIM, and three existing facilities voluntarily joined the program.
- RECLAIM has had a minimal impact on employment. Total employment at RECLAIM facilities fell 7.2 percent from 165,713 jobs to 153,769 jobs during the first compliance year, for a total of 11,944 jobs lost. RECLAIM was cited

by facility operators as the cause of 70 jobs lost, corresponding to a job loss of four-hundredths of one percent due to RECLAIM. Two facilities attributed two jobs gained to RECLAIM.

- AQMD staff conducted a comprehensive compliance program which included at least three visits to each facility to assist with questions and confirm compliance. Eighty-six percent of facilities complied with their allocations for the first compliance year. Most instances of non-compliance with allocations were due to a lack of familiarity with program requirements. Staff will perform additional outreach efforts to ensure a better understanding of rule requirements, and also take enforcement actions as appropriate. Some facilities encountered delays in meeting compliance deadlines for installing monitoring and reporting devices such as Continuous Emissions Monitoring Systems (CEMS) and Remote Terminal Units (RTUs). However, AQMD staff has worked with RECLAIM participants to resolve specific concerns through rule amendments and implementation guidance documents.
- Staff has conducted an extensive public outreach effort for RECLAIM participants which included workshops, training seminars, open forums and other meetings, as well as written guidance documents and informational mailings. This effort has been effective in explaining and clarifying rule requirements and resolving facility concerns in a timely manner.
- RECLAIM continues to meet the requirement for equivalency with the Air
 Quality Management Plan (AQMP). Allocation levels have changed slightly
 since program adoption based on control technology reviews and other new information. However, these changes would also have occurred under commandand-control rules and therefore do not affect the ability of RECLAIM to
 achieve reductions equivalent to the AQMP as required by Health and Safety
 Code Section 39616.

AQMD staff will continue to monitor and assess the performance of the RECLAIM program and work closely with RECLAIM participants to ensure continuing program success.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

First Annual RECLAIM Program Audit Report

Jariuary 12, 1998

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Acknowledgments

The following staff assisted with the preparation of this report and their assistance is greatly appreciated:

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EXECUTIVE SUMMARY

Introduction

On October 15, 1993, the Governing Board of the South Coast Air Quality Management District (AQMD) adopted the Regional Clean Air Incentives Market (RECLAIM) program. The RECLAIM program represents a significant departure from traditional command-and-control regulations. The goal of RECLAIM is to provide facilities with added flexibility in meeting emission reduction requirements and lower the cost of compliance.

In order to ensure that RECLAIM is meeting all state and federal requirements as well as other performance criteria, Rule 2015 - Backstop Provisions, includes provisions for annual program audits focusing on specific topics, as well as more comprehensive three-year audits. This report presents the first RECLAIM annual program audit. The audit findings are discussed below.

Chapter 1: Universe of Sources

The total oxides of nitrogen (NOx) and oxides of sulfur (SOx) RECLAIM universe of facilities decreased slightly from 391 to 353 facilities since program adoption in October 1993. The decrease was due principally to further evaluation by AQMD staff showing that certain facilities initially identified as subject to RECLAIM actually had emissions under four tons per year or belonged to an exempt category. These adjustments have been resolved and no significant changes are expected in the future on this basis.

Eleven facilities permanently ceased operations since program adoption. The reasons for closure cannot be ascertained in one case. However, for the ten facilities where reasons are known, RECLAIM was cited as a contributing factor in only one case. Two newly opened facilities joined RECLAIM, and three existing facilities voluntarily joined the program.

Chapter 2: Allocations and RTC Supply

The methodology for determining allocations was designed so that RECLAIM allocations would match the AQMP emission projections for 2000 and 2003 and therefore achieve emission reductions equivalent to the rules and control measures that RECLAIM subsumes. Allocation levels for certain years have changed slightly since program adoption due to corrections to initial facility allocations based on new information and technology reviews conducted pursuant to Rule 2015. These changes largely reflect adjustments to projected emissions which would also have occurred under command-and-control rules and do not adversely impact the ability of RECLAIM to achieve emission

reductions equivalent to the subsumed rules and control measures. The AQMD will continue to monitor and assess the cumulative increases and decreases in allocations and incorporate these changes as appropriate into the 1997 AQMP revision.

The supply of RTCs has increased since program adoption due to the conversion of ERCs from non-RECLAIM facilities and mobile source credits to RTCs pursuant to Rule 2008 - Mobile Source Credits. This transfer of credits into the program will assist RECLAIM facilities in finding cost-effective strategies to meet their allocations in future years.

Chapter 3: Emission Reductions

Aggregate actual emissions from RECLAIM facilities were below allocations for the first compliance year, indicating that RECLAIM achieved the emission reduction goals for this year. Furthermore, RECLAIM facilities did not experience greater emission control requirement impacts compared to non-RECLAIM sources. If emissions and available credits remain constant at current levels, a "cross-over" point where the supply of RTCs equals emission levels will be reached in the 1997-98 time frame for NOx and the 1998-99 time frame for SOx. This is consistent with the program design.

Chapter 4: Trading

An assessment of RTC trading activity shows that an active RTC market has developed. More than \$10 million in trades have been registered for the NOx and SOx markets combined. Average NOx RTC prices range from \$26/ton for 1994 RTCs to about \$1,500/ton for 2010 RTCs. SOx RTC prices range from \$13/ton for 1994 RTCs to about \$9500/ton for 1996 through 1998. These prices are well below the backstop price of \$15,000 per ton. The prices generally exhibit the expected pattern of increasing price in anticipation of declining supply for future years. The supply of RTCs offered for sale on the market has been adequate to meet the demand of RECLAIM facilities.

Chapter 5: Compliance

During the first compliance year, AQMD staff conducted an extensive compliance program which included at least three visits to each RECLAIM facility to answer questions and confirm compliance. On an aggregate basis, RECLAIM facility emissions were well below total allocations for the year. Individually, eighty-six percent of facilities complied with their allocations for the first compliance year. Most instances of non-compliance with allocations were due to a lack of familiarity with program requirements. Therefore staff will perform additional outreach and education efforts to ensure a better understanding of rule requirements. Staff will also take enforcement actions as appropriate.

Some facilities encountered delays in meeting compliance deadlines for installing monitoring and reporting devices such as Continuous Emissions Monitoring Systems (CEMS) and Remote Terminal Units (RTUs). However, AQMD staff worked with RECLAIM participants to resolve specific concerns through rule amendments and implementation guidance documents.

Chapter 6: New Source Review Activity

The annual program audit assesses New Source Review (NSR) activity in order to ensure that RECLAIM is allowing new sources into the program and existing facilities to expand their operations while still meeting the applicable best available control technology (BACT) and offset requirements. Review of NSR activity shows that two new facilities began operations, three existing facilities joined the program, and 41 facilities expanded or modified their operations during the first compliance year. Sufficient RTCs were available to meet the demand for offsets by new and expanded facilities.

Chapter 7: Job Impacts

Nine of the 353 RECLAIM facilities attribute the RECLAIM program with causing a total of 70 jobs lost. This amounts to approximately four-hundredths of a percent (0.04 percent) of the jobs at RECLAIM facilities. Two Cycle 2 facilities also attribute RECLAIM with causing an increase of one job each. Data pertaining to job increases due to RECLAIM at Cycle 1 facilities is not available. This assessment does not take into account RECLAIM's benefits to the facilities, as compared to command-and-control regulations.

Chapter 8: Air Quality and Public Health Impacts

At this early stage of implementation, only limited data is available to assess the performance of RECLAIM with regard to the air quality and public health concerns identified in Rule 2015: emission trends, seasonal fluctuations, per capita exposure to air pollution, and toxic risk reduction. However, the currently available data does not suggest significant adverse impacts. RECLAIM facility emissions in 1994 were comparable to 1993 emissions, verifying that the program did not result in an emission increase during the first compliance year. No seasonal fluctuations in emissions are discernible at this time. Per capita exposure to ozone was lower in 1994 than projected during program development Basin-wide and for all counties except San Bernardino. The AQMD continues to monitor the geographic pattern of emissions from RECLAIM facilities. RECLAIM sources continue to be subject to the same air toxic regulations as other Basin sources, including newly adopted Rule 1402 - Control of Toxic Air Contaminants from Existing Sources, which requires facilities with significant health risks to implement risk reduction plans.

Chapter 9: Other Program Activities

In order to further improve the effectiveness of RECLAIM, AQMD staff has conducted a variety of other activities. These activities include: an extensive public outreach effort involving workshops, seminars, open forums and written guidance materials for RECLAIM participants; amendments to Rules 2011 - Requirements for Monitoring, Reporting and Recordkeeping for Oxides of Sulfur (SOx), and 2012 - Requirements for Monitoring, Reporting and Recordkeeping for Oxides of Nitrogen (NOx), to ease the burden of monitoring and reporting requirements on major sources; other Regulation XX amendments to address specific concerns identified by RECLAIM participants and U.S.

Environmental Protection Agency (EPA); rule development activities to expand the RECLAIM trading market into mobile and area sources, and to develop the concept of a universal trading credit; the development of a volatile organic compound (VOC) RECLAIM program; NOx emission factor reviews; a SO₂/SO₂ monitoring feasibility evaluation; and a control technology assessment for specific source categories of concern.

Chapter 10: Recommendations

The audit results indicate that the implementation of RECLAIM during the first compliance year was highly successful. It is recommended that AQMD staff:

- Continue to develop area and mobile source credits programs to ensure an adequate future supply of cost-effective emission reductions credits;
- Continue to investigate the feasibility of linking AQMD's mobile and stationary source credits in order to provide additional compliance flexibility;
- Conduct a study to determine the feasibility of extending the market incentive concept to other criteria pollutants such as carbon monoxide (CO) and particulate matter (PM10); and
- Continue to monitor and assess the seasonal and geographic patterns of emissions
 from RECLAIM facilities as additional data becomes available in the future and
 make any necessary adjustments if information indicates that RECLAIM has
 created adverse air quality or public health impacts.

INTRODUCTION

The RECLAIM program, adopted in October 1993, replaced certain command-and-control regulations with a new market incentives program. The goal of RECLAIM is to provide facilities with added flexibility in meeting emission reduction requirements and lower the cost of compliance. The RECLAIM program was designed to meet all state and federal requirements for clean air programs, as well as other performance criteria such as equivalent air quality improvement, equivalent enforcement, lower implementation costs, tower job impacts, and no adverse public health impacts.

Since RECLAIM represents a significant change from traditional command-and-control regulations, the RECLAIM rules include provisions for program audits in order to verify that the RECLAIM objectives are being met. The rules provide for both annual audits and more comprehensive three-year audits. The results of the audits will be used to determine whether any program modifications are appropriate.

This report presents the first annual RECLAIM program audit. As required by Rule 2015 - Backstop Provisions, at paragraph (b)(1), this annual audit assesses:

- Emission reductions:
- Per capità exposure to air pollution;
- Facilities permanently ceasing operations of all sources:
- Job impacts;
- Average annual price of each type of RTC;
- Availability of RTCs:
- Toxic risk reductions;
- NSR permitting activity;
- Compliance issues;
- · Emission trends and seasonal fluctuations; and
- Emission control requirement impacts on stationary sources in the program compared to other stationary sources identified in the AQMP.

In addition, as required for the first three annual program audits and pursuant to Rule 2015(b)(1), this audit reviews the effectiveness of enforcement and protocols for the purpose of recommending any appropriate revisions to the protocols to achieve improved

January 1996

measurement and enforcement of RECLAIM emission reductions while minimizing administrative cost to the AQMD and RECLAIM participants.

To facilitate the presentation, the report is organized into the following chapters:

- Universe of Sources: This chapter discusses changes in the universe of RECLAIM sources, including facilities permanently ceasing operations since RECLAIM was adopted.
- Allocations and RTC Supply: This chapter summarizes changes in emissions allocations in the RECLAIM universe and the supply of RTCs.
- Emission Reductions: This chapter assesses emission trends and reductions for RECLAIM sources and emission control requirement impacts on these sources.
- Trading: This chapter discusses RTC trading activity and the price and availability of RTCs.
- Compliance: This chapter discusses compliance activities and the compliance status of RECLAIM facilities, and evaluates the effectiveness of compliance and the NOx and SOx monitoring, reporting and recordkeeping protocols.
- New Source Review Activity: This chapter summarizes NSR activity at RECLAIM facilities.
- 7. Job Impacts: This chapter discusses employment changes reported by facilities.
- 8. Air Quality and Public Health Impacts: This chapter discusses air quality trends in the South Coast Air Basin, seasonal and geographic emission trends for RECLAIM sources, per capita exposure to air pollution, and toxics impacts for RECLAIM sources.
- Other Program Activities: This chapter discusses other areas of interest, such as the universal trading credit concept and the area source credits program.
- Recommendations: This chapter presents the recommendations based on the audit results.

In accordance with Rule 2015, this audit report will be presented to the AQMD Governing Board in a public hearing on January 12, 1996, and will be included in the AQMD annual performance report to the California legislature.

This first annual audit report will be followed by additional annual and three-year audits. The first three-year audit report will be conducted in 1997 and presented to the Board in 1998. This audit will include a comprehensive evaluation of the performance of the program against specific criteria.

CHAPTER 1

UNIVERSE OF SOURCES

Summary

The total NOx and SOx RECLAIM universe of facilities decreased slightly from 391 to 353 facilities since program adoption in October 1993. The decrease was due principally to further evaluation by AQMD staff showing that certain facilities initially identified as subject to RECLAIM actually had emissions under four tons per year or belonged to an exempt category. These adjustments have been resolved and no significant changes are expected in the future on this basis.

Eleven facilities permanently ceased operations since program adoption. The reasons for closure cannot be ascertained in one case. However, for the ten facilities where reasons are known, RECLAIM was cited as a contributing factor in only one case. Two newly opened facilities joined RECLAIM, and three existing facilities voluntarily joined the program.

Background

Rule 2001 - Applicability, specifies the criteria for inclusion in RECLAIM. Facilities are subject to RECLAIM if they have NOx or SOx emissions greater than four tons for 1990 or any subsequent year. Certain facilities such as restaurants, schools, hospitals, prisons, public transit, equipment rental facilities, and facilities possessing solely "various locations" permits are exempt. An initial universe of 391 RECLAIM facilities was developed based on 1990, 1991 and 1992 facility emissions data.

A facility may be removed from the RECLAIM universe pursuant to Rule 2001 if:

- The facility demonstrates that due to the installation of control equipment prior to RECLAIM rule adoption, future emissions will be below four tons per year; or
- The facility is discovered by AQMD staff to have been misclassified as a RECLAIM facility. Reasons for misclassification include corrected emissions data indicating emissions below four tons per year, new information that the facility belongs to an exempt category, or going out of business before the start of the program; or
- The facility ceases operations and permanently retires its RTCs.

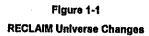
Facilities which permanently cease operations which emit RECLAIM pollutants and go out of business are removed from the active, emitting RECLAIM universe, but may retain their RTCs and participate in trading.

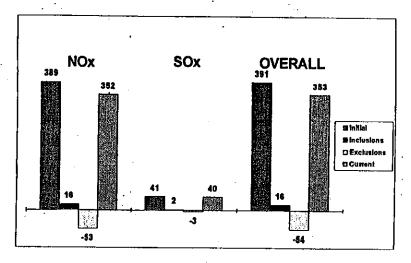
A facility may voluntarily choose to enter the RECLAIM universe, regardless of its emission level. Additionally, a facility must enter the RECLAIM universe if:

- It is a new facility which expects to emit over four tons per year;
- It is an existing facility which increases its emissions above the four-ton threshold or ceases to belong to an exempt category; or
- The facility is discovered by AQMD staff to meet the applicability requirements of RECLAIM, but was initially misclassified as a non-RECLAIM facility.

Universe Changes

Figure 1-1 summarizes the changes in the RECLAIM universe since program adoption in October 1993. The figure shows that the NOx universe has experienced a net decrease of 37 facilities, while the SOx universe has experienced net decrease of one facility. A list of facilities in the RECLAIM universe as of November 1995 is provided in Appendix A.





Facility Exclusions

Table 1-1 lists the reasons for the exclusions of facilities from the RECLAIM universe. Appendix B provides the list of excluded facilities as of November 1995.

Table 1-1
Reasons for RECLAIM Universe Exclusions

Reason for Exclusion	NOx	SOx	Total
Reclassification Based on Corrected Information:		1	<u>.l.,</u> .
Corrected Emissions Data	13	0	13
Met Exemption Criteria	15	0	15
Out of Business Before Program Adoption	6	I	6
Consolidated With Adjacent Facility Under Common Ownership	2	. 1	2
Installed Controls Before Program Adoption (Rule 2001(b) Requests)	17	1	18
TOTALS	53	3	54

Note: Two excluded facilities belonged to both the NOx and SOx universes.

Exclusions of facilities from RECLAIM were due largely to reclassifications, that is, further evaluations by AQMD staff showing that certain facilities that had been initially identified as subject to RECLAIM did not meet the applicability criteria. Most of these evaluations were performed pursuant to new or corrected information submitted by facilities. In particular, these evaluations showed that:

- Thirteen facilities were found to have emissions below four tons per year in 1990 and subsequent years. These facilities therefore did not meet the applicability criteria and were removed.
- Fifteen facilities were found to belong to exempt categories and were therefore removed from the RECLAIM universe.
- Six facilities initially included in the universe due to their emissions in 1990-1992 were discovered to have gone out of business prior to program adoption.

Two facilities initially considered to be separate entities were consolidated when it
was learned that adjacent facilities were under common ownership.

Eighteen facilities (17 NOx facilities and one SOx facility) requested and were granted exclusion from RECLAIM due to the installation of control equipment prior to October 15, 1993 which lowered their previous and expected future emissions below the four-ton threshold. Such requests are allowed pursuant to Rule 2001(b).

All exclusions to date have been based on concerns that have been largely resolved. No significant changes to the universe are expected in the future based on reclassification or requests for exclusion pursuant to Rule 2001(b).

Facility Inclusions

Table 1-2 provides the reasons for inclusions of facilities into the RECLAIM universe. Appendix B provides the list of included facilities as of November 1995.

Table 1-2
Reasons for RECLAIM Universe inclusions

Reason for Inclusion	NOx	SOx	Total	
Reclassification Based on Corrected Emissions Information	9	2	9	
New Facilities	2	0	2	
Opt-Ins by Existing Facilities	3	0	3	
Outer Continental Shelf Facilities	2 .	ō	2	
TOTALS	16	2	16	

Note: Two included facilities joined both the NOx and SOx universes.

Most additions of facilities to RECLAIM were based on new emissions information discovered by AQMD staff indicating that certain facilities should have been included in the initial RECLAIM universe. Nine facilities were added to the NOx universe on this basis. Two of these facilities were also added to the SOx universe based on emissions.

Two new facilities which began operations after the start of the program and that expect to emit over four tons per year of NOx in the future were added to the RECLAIM universe.

Three existing facilities voluntarily joined RECLAIM. The reasons cited by existing facilities joining the program include gains in administrative efficiency by consolidating

local operations under RECLAIM, and the opportunity to acquire RTCs based on past emissions.

Two NOx facilities located on the outer continental shelf (OCS) were added to RECLAIM in 1994 following EPA's delegation of authority to the AQMD to regulate certain OCS facilities. The inclusion of these facilities is provided for in Rule 2001(c)(1)(F).

Facilities Permanently Ceasing Operations

The AQMD is aware of eleven RECLAIM facilities which have permanently ceased operations and gone out of business since RECLAIM was adopted on October 15, 1993. These facilities are identified in Appendix C. AQMD staff attempted to ascertain the reasons for the closures, but was not able to contact the facility operator in one case. However, for the ten facilities where reasons were ascertained, RECLAIM was cited as a contributing factor in only one case. This facility operator claimed that the closure of his business was due partially to economic reasons and partially to the cost of RECLAIM compliance.

CHAPTER 2

ALLOCATIONS AND RTC SUPPLY

Summary

The methodology for determining allocations was designed so that RECLAIM allocations would match the AQMP emission projections for 2000 and 2003 and therefore achieve emission reductions equivalent to the rules and control measures that RECLAIM subsumes. Allocation levels for certain years have changed slightly since program adoption due to corrections to initial facility allocations based on new information and technology reviews conducted pursuant to Rule 2015. These changes largely reflect adjustments to projected emissions which would also have occurred under command-and-control rules and do not adversely impact the ability of RECLAIM to achieve emission reductions equivalent to the subsumed rules and control measures. The AQMD will continue to monitor and assess the cumulative increases and decreases in allocations and incorporate these changes as appropriate into the 1997 AQMP revision.

The supply of RTCs has increased since program adoption due to the conversion of ERCs from non-RECLAIM facilities and mobile source credits to RTCs pursuant to Rule 2008 - Mobile Source Credits. This transfer of credits into the program will assist RECLAIM facilities in finding cost-effective strategies to meet their allocations in future years.

Background

One of the most important components of RECLAIM is the annual allocations for the facilities in the program. Pursuant to Health and Safety Code Section 39616, RECLAIM is intended to achieve emission reductions equivalent to the rules and control measures that would have been required by the AQMP for the universe of sources. To ensure equivalent emission reductions, the methodology for determining allocations was designed to that RECLAIM would match the AQMP emission projections for 2000 and 2003. The allocation methodology was also designed to ensure equity and fairness for RECLAIM participants.

Rule 2002 - Allocations for Oxides of Nitrogen (NOx) and Oxides of Sulfur (SOx), establishes the methodology for calculating allocations. The method for determining each facility's starting, intermediate and ending year allocation is based primarily on historical activity levels during "peak" activity years and the relative control that would be required by the AQMP in the years 1994, 2000 and 2003, respectively. In addition, after program adoption, all NOx and SOx ERCs held by RECLAIM facilities were converted to RTCs

and added to the facility starting allocations. Non-RECLAIM participants were also allowed to convert ERCs to RTCs and participate in the RECLAIM market as well.

At the time of adoption, some industries had concerns about the amount of reductions proposed in the AQMP. Therefore Rule 2015 required an evaluation of the ending emission factors for six source categories: glass melting furnaces; gray cement kilns; steel slab reheating, flat rolled product annealing and flat rolled product galvanizing furnaces; metal melting furnaces; hot mix asphalt operations; and petroleum coke calcining. The technology review for petroleum coke calcining was completed and approved in March 1995. This industry received an earlier evaluation because there is only one facility with a coke calcining operation and it was scheduled for a mjaor "turn-around" in 1995.

The technology reviews for the remaining five source categories were presented to the Board on December 7, 1995. On this date, the Board adopted revised starting and ending emission factors for glass furnaces. Consideration of revised emission factors for gray cement kilns was continued to the March 1996 Board meeting in order to address CEQA issues. No changes were made based on the remaining three technology reviews.

During preparation of the 1994 AQMP, preliminary recommendations from the technology reviews were available. The 1994 AQMP included an increase in NOx allocations for RECLAIM facilities the years 2000 and 2003 based on these recommendations.

Allocation Changes

The aggregate amount of allocations has changed since program adoption due to corrections to individual facility allocations based on new information, the technology reviews conducted pursuant to Rule 2015, and facility inclusions and exclusions from the RECLAIM universe.

As of December 1995, the allocations of 145 facilities have been revised based on new information. These revisions were made both pursuant to facility requests and at the initiative of staff. Staff performed a thorough review of all proposed revisions and approved revisions consistent with the methodology in Rule 2002. The primary reasons for adjusting a facility's allocation include emission factor corrections, responsionment of fitel usage, changing the peak activity year, and amendment of previously submitted emissions data by facilities. Revisions to initial facility allocations have been largely resolved and AQMD staff does not foresee any future changes on this basis that would significantly affect total allocations.

The technology review for petroleum coke calcining resulted in NOx allocation adjustments for one facility. Pursuant to the recently adopted technology review for glass furnaces, the allocations of three facilities will be revised. These adjustments have been included in this report. The outcome of the Board's consideration of the technology review for gray cement kilns may affect the allocations of one facility.

Changes in the universe of RECLAIM sources resulted in a small net change in total allocations.

In order to evaluate whether these adjustments will affect the achievement of AQMP emission reduction targets, Figures 2-1 and 2-2 compare the original allocations, adjusted allocations, and the 1991 and 1994 AQMP emission targets for the benchmark years 1994, 2000 and 2003. Tables 2-1 and 2-2 provide the numerical values. The 1994 AQMP targets and the adjusted allocations are shown both with and without ERC conversions at RECLAIM facilities. ERC conversions are discussed in the next section of this chapter.

As the figures show, certain allocations have changed since program adoption. NOx allocations show small increases as a result of individual facility allocation adjustments, universe changes and the technology reviews. Conversion of NOx ERCs to RTCs by RECLAIM facilities resulted in 3.6 tons/day of new RTCs for 1994 and 2000, and 2.6 tons/day for 2003.

SOx allocations show a small increase in 1994, no change in 2000, and a small decrease in 2003 as a result of individual facility allocation adjustments and universe changes. Conversion of SOx ERCs to RTCs by RECLAIM facilities resulted in 2.5 tons/day of new RTCs for 1994 and 2000, and 1.6 tons/day for 2003.

Current adjusted allocations are slightly higher than 1994 AQMP emission targets.

Current adjusted NOx allocations exceed the 1994 AQMP targets by about three tons/day for 2000 and 2003. Current adjusted SOx allocations exceed 1994 AQMP targets by about two tons/day for 2000 and are approximately equal for 2003.

One technology review, the review for gray cement kilns, is pending. The outcome of this review could affect the NOx allocations for one facility.

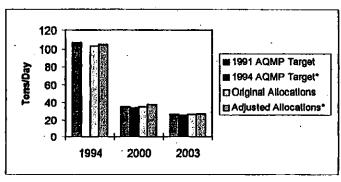
In general, the allocation changes for future years largely reflect changes in projected emissions which would have occurred regardless of RECLAIM. The adjustment of compliance limits based on technology reviews and the revision of emission estimates based on new information are activities which also occur under command-and-control rules.

Since similar changes would have occurred under the command-and-control rules and control measures subsumed by RECLAIM, the allocation changes are consistent with the program design principle that RECLAIM sources be required to reduce their emissions to a level equivalent to the reductions that would have occurred under the subsumed rules and control measures. Therefore RECLAIM continues to conform with the requirement for emission reductions equivalent to the subsumed rules and control measures as required by Health and Safety Code Section 39616.

Regardless of RECLAIM, such changes would be incorporated into future AQMP revisions. The RECLAIM rules anticipated the potential for allocation adjustments. Rule 2015 at paragraph (c)(1) provides that the AQMD will propose AQMP revisions which ensure that any increases in allocations which occur based on any adjustments made pursuant to Rule 2002 (c)(12), Rule 2015 (c)(2), and Rule 2015 (e) shall be offset in the AQMP.

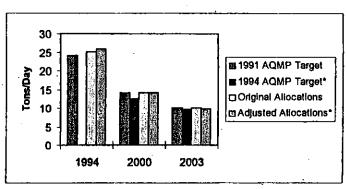
The AQMD will continue to monitor and assess all increases and decreases in allocations and incorporate these changes as appropriate into future AQMP revisions.

Figure 2-1 NOx Allocation Adjustments



 Values for 1994 AQMP Targets and Adjusted Allocations as presented in this figure do not include ERC conversions to RTCs. See Table 2-1 for ERC conversions values. 1994 AQMP does not include emission reduction targets for 1994.

Figure 2-2
SOx Allocation Adjustments



 Values for 1994 AQMP Targets and Adjusted Allocations as presented in this figure do not include ERC conversions to RTCs. See Table 2-2 for ERC conversions values. 1994 AQMP does not include emission reduction targets for 1994.

Table 2-1 NOx Allocation Adjustments (Tons/Day) (Numerical Values)

Year	1991 AQMP Target	1994 AQI	1994 AQMP Target		Adjusted A	llocations**
		Without ERC Conversions	With ERC Conversions		Without ERC Conversions	With ERC Conversions
1994	106	N/A	N/A	103	104.8	108.4
2000	35	34.3	37.5	35	37.2	40.8
2003	26	25.1 .	28.2	26	26.6	29.2

* The original allocations did not include ERC conversions to RTCs at RECLAIM facilities.

Table 2-2
SOx Allocation Adjustments (Tons/Day)
(Numerical Values)

Year	1991 AQMP Target	1994 AQI	1994 AQMP Target		Adjusted A	ilocations**
	Without With ERC ERC Conversions Conversions		Without BRC Conversions	With ERC Conversions		
1994	24	N/A	N/A	25	25.9	28.4
2000	14	12.4	14.5	. 14	14.0	16.5
2003	10	9.5	11.5	10	9.8	11.4

* The original allocations did not include ERC conversions to RTCs at RECLAIM facilities.

RTC Supply

RECLAIM was designed with the intention that ERCs from outside the program could be transferred into the RECLAIM market in order to assist RECLAIM facilities in meeting their emission reduction goals without compromising progress towards attainment of clean air goals.

The RECLAIM rules include two mechanisms for bringing non-RECLAIM source emission reductions into the program:

- Conversion of ERCs to RTCs. After rule adoption, ERCs held by RECLAIM
 facilities were automatically converted to RTCs and added to the respective facility
 allocation accounts. Additionally, non-RECLAIM participants had the option to
 voluntarily convert ERCs to RTCs provided requests for conversions were
 received prior to July 1, 1994.
- Conversion of Mobile Source ERCs to RTCs. Mobile source credits generated under Regulation XVI rules may be converted to RTCs pursuant to Rule 2008 -Mobile Source Credits. Thus far, five applications for mobile source credit conversions have been approved.

Figures 2-3 and 2-4 illustrate the increase in the total supply of RTCs due to the transfer of credits into the RECLAIM program. These figures show that the total available RTCs has increased since program adoption for all compliance years. This increase in RTC supply will assist RECLAIM facilities in finding cost-effective strategies for meeting their emission reduction requirements.

Efforts to further expand the trading market and the available supply of credits are discussed in Chapter 9, Other Program Activities.

Allocations and the supply of RTCs will continue to be monitored throughout program implementation and evaluated as part of future annual and three-year audits.

^{**} Includes adjustments to individual facility allocations, universe inclusions and exclusions, and results of Rulo 2015 technology reviews (except gray cement kilns, which was pending resolution at the time of this report).

^{**} Includes adjustments to individual facility aflocations and universe inclusions and exclusions. SOx allocations were not affected by Rule 2015 technology reviews.

Figure 2-3
NOx: Allocations and RTC Supply

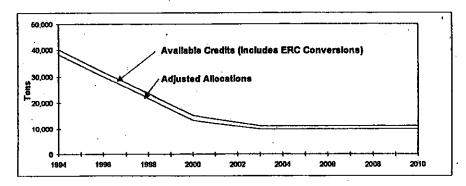
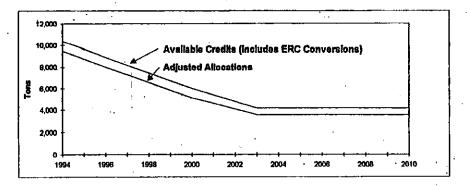


Figure 2-4
SOx: Allocations and RTC Supply



CHAPTER 3

EMISSION REDUCTIONS

Summary

Aggregate actual emissions from RECLAIM facilities were below allocations for the first compliance year, indicating that RECLAIM achieved the emission reduction goals for this year. Furthermore, RECLAIM facilities did not experience greater emission control requirement impacts compared to non-RECLAIM sources. If emission and available credits remain constant at current levels, a "cross-over" point where the supply of RTCs equals emission levels will be reached in the 1997-98 time frame for NOx and the 1998-99 time frame for SOx. This is consistent with the design of the program.

Background

One purpose of the RECLAIM program audits is to assess whether RECLAIM is achieving the required emission reductions. The emission reduction requirements for RECLAIM facilities are reflected in the declining annual allocations. Annual aggregate emission levels which do not exceed allocations indicates success in achieving the emission reduction goals.

The annual program audit is also required to assess emission control requirement impacts on RECLAIM sources as compared to other stationary sources identified in the AQMP. This provision reflects the requirements of Health and Safety Code Section 39616(c)(6), which stipulates that RECLAIM "will not result in disproportionate impacts, measured in terms of required emission reductions, and measured on an aggregate basis, on those stationary sources included in the program compared to other permitted stationary sources in the [AQMD]'s attainment plan."

Emission Reduction Trends

Figures 3-1 and 3-2 show the trend in emissions for RECLAIM facilities for the years 1989 through 1994, the adjusted allocations for the years 1994 through 2010, and the total credits currently available for these years.

The adjusted allocations reflect corrections to individual facility allocations based on new information and the small change due to facility inclusions and exclusions, as discussed in Chapter 2, Allocations and RTC Supply.

Figure 3-1
NOx Emissions and Allocations

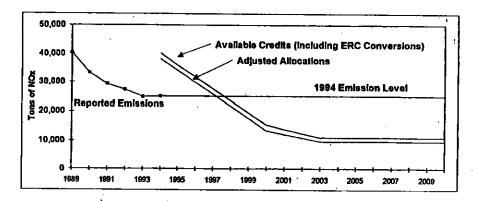
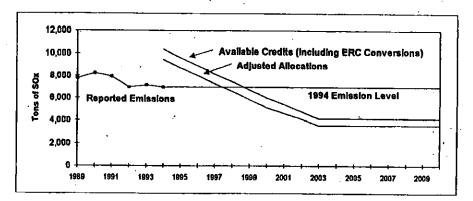


Figure 3-2
SOx Emissions and Allocations



The available credits reflects all RTCs held by both RECLAIM and non-RECLAIM participants, including allocations, RTCs from ERC conversions, and RTCs from mobile source credit conversions.

It should be noted that the RECLAIM universe is divided into two cycles with compliance schedules staggered by six months. For Cycle 1 facilities, the first compliance year ran from January 1, 1994 to December 31, 1994. For Cycle 2 facilities, the first compliance year was July 1, 1994 through June 30, 1995. Placement in either cycle was determined by a computer-generated random assignment shortly after the RECLAIM rules were adopted. To facilitate the analysis, Cycle 1 and Cycle 2 data were combined as if Cycle 2 coincided with Cycle 1.

Figures 3-1 and 3-2 illustrate several points:

- RECLAIM facilities did not exceed their allocations on an aggregate basis in the
 first compliance year, indicating that RECLAIM met its emission goals for that
 year.
- 1994 emission levels for RECLAIM facilities were comparable to 1993 emission levels, indicating that facilities have not increased emissions due to RECLAIM.
 Furthermore, the trend shows a decrease in annual emissions since 1989.
- If reported emissions and available credits remain constant at current levels, a
 "cross-over" point where the supply of RTCs equals emission levels will be
 reached in the 1997-98 time frame for NOx and the 1998-99 time frame for SOx.
 This is consistent with the program design.

It is anticipated that reported emissions in the second compliance year will be lower than previously reported emissions due to the completion of CEMS installation for most major sources. The emissions reported by CEMS will be more accurate than emission reported based upon emission factors used by facilities during the first compliance year. These emission factors tend to be conservative and estimate emissions based on the high end of the test data range.

Emission Control Requirement Impacts

Many facilities had sufficient allocations for the first compliance year. Furthermore, aggregate actual emissions from RECLAIM facilities were below aggregate allocations for the first compliance year. Therefore the RECLAIM universe did not experience greater emission reduction requirements compared to non-RECLAIM stationary sources identified in the AQMP.

The program is designed to achieve an equitable distribution of emission reductions from RECLAIM and non-RECLAIM sources. For example, during the first compliance year, non-RECLAIM stationary sources were required to meet specific compliance deadlines in such rules as Rule 1110.2 - Emissions From Gaseous- and Liquid-Fueled Internal Combustion Engines, and Rule 1134 - Emissions of Oxides of Nitrogen from Stationary Gas Turbines. RECLAIM facilities were also required to achieve comparable emission reductions, but the emission control requirements were reflected in their allocations.

The AQMD will continue to monitor and assess emission trends and control requirement impacts for RECLAIM facilities to ensure continued success and equity in achieving the emission reduction goals.

CHAPTER 4

TRADING

Summary

An assessment of RTC trading activity shows that an active RTC market has developed. More than \$10 million in trades have been registered. NOx RTC prices range from \$26/ton for 1994 RTCs to about \$1,500/ton for 2010 RTCs. SOx RTC prices range from \$13/ton for 1994 RTCs to about \$960/ton for 1996 through 1998. Average prices exclude RTCs which were transferred with a price of \$0, such as transfers between facilities of common ownership. These prices are well below the backstop price of \$15,000 per ton. The prices generally exhibit the expected pattern of increasing price in anticipation of declining supply for future years. The supply of RTCs offered for sale on the market has been adequate to meet the demand of RECLAIM facilities.

Background

The RECLAIM trading market is a core element of the program, for it allows facilities to seek and secure reductions in a way that minimizes compliance costs. RTCs are the instrument of the market. A RTC is a unit of NOx or SOx emissions. Each RTC has a term of one year and may only be used for emissions that occurred during the instrument term.

RTCs may be bought, sold or otherwise traded or transferred between RECLAIM facilities or other persons who choose to participate in the market. RTC trades may be completed at any time prior to the instrument expiration date. RECLAIM facilities must hold sufficient RTCs to cover their emissions at the end of each compliance year.

Rule 2015 requires the annual program audit to assess the annual average price of each type of RTC and the availability of RTCs in order to determine whether RTCs are available to RECLAIM facilities at a reasonable cost. The rule designates a backstop price of \$15,000 per ton which, if exceeded, will trigger a program evaluation and review.

RTC Trading Activity

An assessment of RTC trading activity shows that an active RTC market has developed. Figures 4-1 and 4-2 show that since the beginning of the program, over 400 RTC trades have occurred, involving over 100,000 tons of pollutants.

Figure 4-f
Number of RTC Trades
As of November 3, 1995

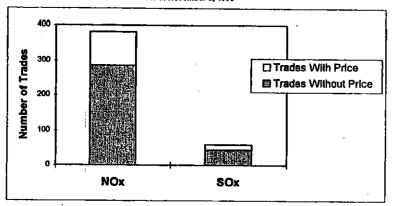
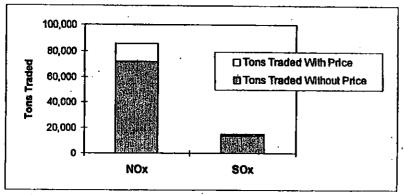


Figure 4-2
Tons of RTC Traded
As of November 3, 1995

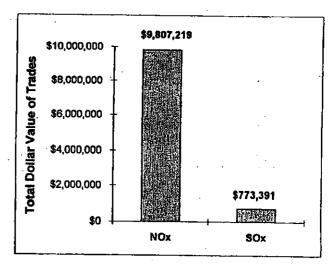


These figures show both trades with prices and transactions which did not involve a RTC price. Trades with prices reflect sales of RTCs between two parties. Trades without

prices include transfers due to change of ownership, transfers between facilities within the same company, transfers to and from brokers associated with auctions, and "dumping," i.e., transfers of RTCs which are surplus or will soon expire to non-RECLAIM participants in order to avoid payment of fees associated with holding these RTCs.

Figure 4-3 provides the total dollar value of these trades to date. As of November 3, 1995, the total dollar value of NOx trades was almost \$10 million, while the total value of SOx trades was over \$700,000.

Figure 4-3
Total Dollar Value of RTC Trades
As of November 3, 1995



Market participants are using a variety of different trading mechanisms, including auctions, brokers and direct exchanges.

Auctions include the Clean Air Auction sponsored by the New York-based brokerage firm Cantor Fitzgerald with Dames and Moore, and the Automated Environmental Credit Exchange (ACE) developed by a group of entrepreneurs in partnership with the Pacific Stock Exchange. The Clean Air Auction is an order-driven market in which participants place buy or sell orders which are matched by the sponsors. The Clean Air Auction is held every six months or more frequently as determined by market demand. Three Clean Air Auctions have been held to date. ACE is an electronic trading market accessed via the Internet, fax, or other computerized link. Trading is conducted through several rounds of

bidding, with ACE attempting to match bids during each round. This market operates quarterly prior to the end of each reconciliation period. Three ACE auctions have occurred to date.

Other broker and market facilitator services are also being offered. For example, RTCEX, operated by Justice & Associates, is a trading service which accepts listings of orders from buyers and sellers and broadcasts the orders by fax to interested parties. RTCEX trades can take place daily.

Figures 4-4 and 4-5 take a closer look at the trades associated with price. These figures show the tonnage of pollutants traded and the total value of trades for NOx and SOx RTCs for each year through 2010. RTC trades for Cycle 2 have been combined with Cycle 1 to facilitate the analysis. The figures show a high level of trading activity for the first compliance year due to facilities adjusting their allocations to meet their emission levels. Facilities also traded RTCs for future years in anticipation of future emission levels.

Figure 4-4
NOx Trading Volumes and Total Trade Values
As of November 2, 1985

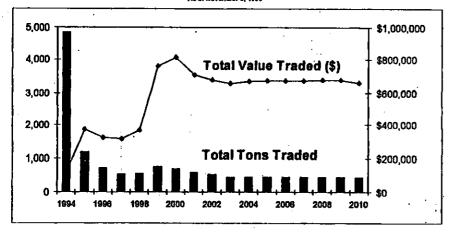
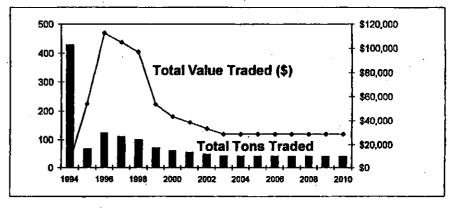


Figure 4-5
SOx Trading Volumes and Total Trade Values
As of November 3, 1995



RTC Prices

Table 4-1 provides the annual average prices of NOx RTCs for each year from 1994 through 2010 as of November 3, 1995. Figure 4-6 presents the annual average prices and the range of prices observed on the market. As of November 3, 1995, the average prices of NOx RTCs ranged from \$26/ton for the first compliance year to \$1,529/ton for year 2009.

Figure 4-7 compares average NOx RTC prices to the total available supply of RTCs for each compliance year. NOx RTC prices show an increase in later years in anticipation of the decrease in supply. However, prices for all years are well below the program backstop price of \$15,000 per ton.

Table 4-1
Annual Average NOx RTC Prices
As of November 3, 1995

January 1996

RTC Year	Annual Average Price per Ton
1994	\$26
1995	\$315
1996	\$450
1997	\$599
1998	\$671
1999	\$1,008
2000	\$1,161
2001	. \$1,175
2002	\$1,293
2003	\$1,457
2004	\$1,509
2005	\$1,520
2006	\$1,520
2007	\$1,525
2008	\$1,529
2009	\$1,529
2010	\$1,526

Table 4-2 provides the annual average prices of SOx RTCs for each year from 1994 through 2010 as of November 3, 1995. Figure 4-8 presents the annual average prices and the range of prices observed on the market. As of November 3, 1995, annual average SOx RTC prices ranged from about \$13/ton in the first compliance year to \$964/ton for 1998.

Figure 4-9 compares average SOx RTC prices to the total available supply of RTCs for each compliance year. Unlike NOx, SOx RTC prices do not show a continuous rise in later compliance years in response to the anticipated decrease in supply. Rather, the price drops in 1998 and remains about constant thereafter. This pattern is attributable to a few large multi-year trades at relatively low prices for the later compliance years.

SOx RTC prices are also well below the backstop price of \$15,000 per ton.

Figure 4-6
NOx RTC Prices
As of November 3, 1995

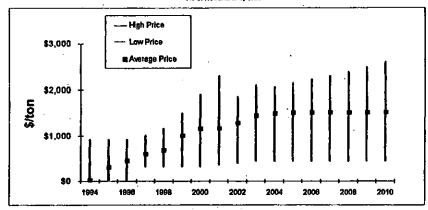


Figure 4-7
NOx RTC Price vs. Supply

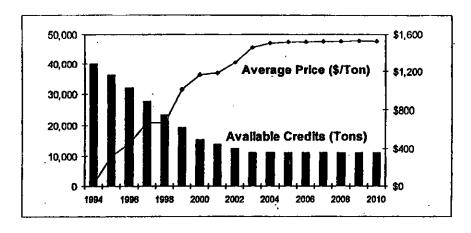


Table 4-2 Annual Average SOx RTC Prices As of November 3, 1995

RTC Year	Annual Average Price
1994	\$13
1995	\$800
1996	\$900
1997	\$940
1998	\$960
1999	\$740
2000	\$720
2001	\$720
2002	\$700
2003	\$700
2004	\$700
2005	\$700
2006	\$700
2007	\$700`
2008	\$700
2009	\$700
2010	\$790

Figure 4-B SOx RTC Prices As of November 3, 1895

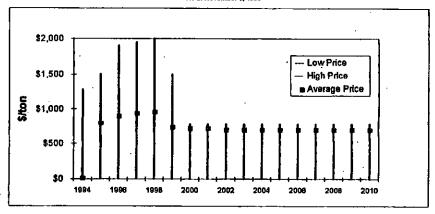
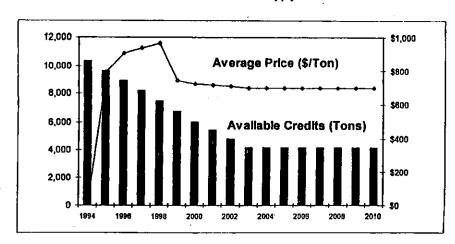


Figure 4-9 SOx RTC Price vs. Supply



RTC Availability

The annual program audit is required to assess RTC availability in order to determine whether the supply of RTCs is adequate to meet the demand of RECLAIM facilities.

Figures 4-10 and 4-11 show the availability of RTCs by comparing the supply of RTCs offered for sale to the demand for RTCs by RECLAIM facilities. For both NOx and SOx, the quantity of RTCs offered for sale exceeded the quantity purchased by RECLAIM facilities. This indicates that sufficient RTCs were available on the market for those RECLAIM facilities who wished to purchase them.

Figure 4-10
NOx RTC Availability

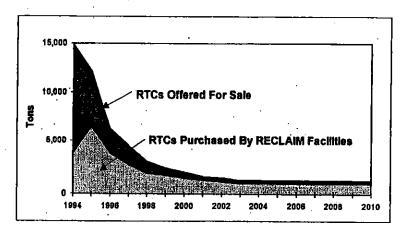
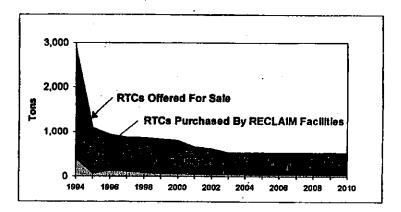


Figure 4-11
SOx RTC Availability



CHAPTER 5

COMPLIANCE

Summary

During the first compliance year, AQMD staff conducted an extensive compliance program which included at least three visits to each RECLAIM facility to answer questions and confirm compliance. On an aggregate basis, RECLAIM facility emissions were well below total allocations for the year. Individually, eighty-six percent of facilities complied with their allocations for the first compliance year. Most instances of non-compliance with allocations were due to a lack of familiarity with program requirements. Therefore staff will perform additional outreach and education efforts to ensure a better understanding of rule requirements. Staff will also take enforcement actions as appropriate.

Some facilities encountered delays in meeting compliance deadlines for installing monitoring and reporting devices such as Continuous Emissions Monitoring Systems (CEMS) and Remote Terminal Units (RTUs). However, AQMD staff worked with RECLAIM participants to resolve specific concerns through rule amendments and implementation guidance documents.

Background

Compliance is a critical element of the RECLAIM program. In order to meet clean air goals, the AQMD must ensure that the annual emission targets for the RECLAIM universe are being met.

RECLAIM replaced the concentration-based emission limits on individual pieces of equipment specified in command-and-control regulations with an annual allocation of emissions for the facility as a whole. With the exception of meeting Best Available Control Technology (BACT) requirements, a RECLAIM facility has the flexibility to decide how emissions are distributed among its equipment in order to meet its annual allocation, and may also choose to purchase RTCs to increase its allocation. This flexibility is supported by standardized emission monitoring, reporting and recordkeeping (MRR) requirements to ensure the accuracy of reported emissions.

The first compliance year was an interim period during which the RECLAIM rules provided time for facilities to install and certify certain required monitoring and reporting devices. Important compliance milestones for the first compliance year were:

- · Compliance with the annual allocation for the first year;
- Installation and/or certification of monitoring devices, i.e., fuel meters and CEMS;
 and
- · Electronic reporting by RTU or modem.

When facilities achieve these milestones for all RECLAIM devices, they move into the next phase: the removal of command and control limits from their permits. Each of these topics is discussed in detail below.

As required for the first annual program audit in Rule 2015(b)(t), this chapter also includes a review of "the effectiveness of enforcement and protocols [for the purpose of recommending any appropriate] revisions to the protocols to achieve improved measurement and enforcement of RECLAIM emission reductions while minimizing administrative cost to the District and RECLAIM participants."

Compliance Activities

AQMD staff conducted an extensive outreach and compliance program for RECLAIM facilities to inform these facilities of the program requirements and to ensure compliance. Outreach and compliance activities have included over 20 informational mailings to each RECLAIM facility and numerous seminars, workshops and open forums as discussed in Chapter 9, "Other Program Activities." The many workshops and other meetings during rule development also served to inform facilities of the requirements.

AQMD staff has made a concerted effort during the first compliance year to work closely with individual facilities to ensure that they understand and comply with the rule requirements. Every RECLAIM facility has been visited by AQMD staff at least three times, for a total of over 1,000 site visits. These visits included:

- An initial general visit to each facility to ensure that they were informed about the program, answer any questions, and check for compliance with the fuel meter requirements:
- A follow-up visit to each facility to provide further assistance and ensure that fuel meters were installed and operating properly;
- A formal RECLAIM compliance audit.

In addition, some facilities were visited additional times to address specific issues such as breakdowns or complaints, or provide further assistance.

The RECLAIM compliance audit is a carefully planned yearly enforcement activity. AQMD staff conducts these audits to meet four objectives:

- To verify that each facility's annual NOx and/or SOx emissions do not exceed the facility's allocation;
- To verify the operational integrity of monitoring, measuring and reporting devices;

- To verify the compliance status of RECLAIM and non-RECLAIM equipment; and
- To assess the effectiveness of the RECLAIM program.

RECLAIM compliance audits are conducted by a team of two or more AQMD staff. Each audit involves an extensive records review and physical inspection of CEMS, fuel meters, RTUs, and RECLAIM and non-RECLAIM equipment. The records review concentrates on the accuracy of emission calculations and reports, recordkeeping practices, and compliance with the facility permit. The audit also includes an investigation of non-RECLAIM rule compliance.

Allocation Compliance

Requirements

At the beginning of the program, each RECLAIM facility received an annual allocation for each year from 1994 through 2010. Each facility has the flexibility to decide how to manage its emissions in order to meet its allocation in the most cost-effective manner. Facilities may also buy RTCs to increase their allocation, or sell unneeded RTCs.

A fundamental requirement of RECLAIM is that at the end of each compliance year, each facility must hold sufficient RTCs in its allocation account to cover its emissions for the year. Pacilities may buy or sell RTCs at any time of year in order to ensure that their emissions are covered. In addition, after the end of each compliance year, there is a 60-day reconciliation period during which facilities have a final opportunity to buy or sell RTCs for that year.

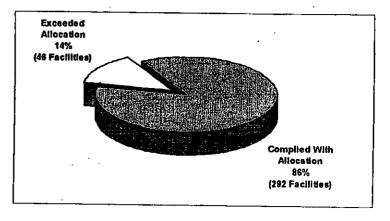
Compliance Status

Analysis of the trading data shows that many RECLAIM facilities took advantage of the opportunity to purchase RTCs for the first compliance year. Of the 40 facilities in the SOx market, five facilities purchased RTCs for the first compliance year. Of the 352 facilities in the NOx market, 70 facilities purchased RTCs for the first compliance year.

Overall, 86 percent of facilities complied with their allocation for the first compliance year, i.e., their final allocation balance after trading was sufficient to cover their final audited emission level. This is illustrated by Figure 5-1.

At the time of this report, the determination of allocation compliance status is pending for 20 facilities due to failure of the facility operators to submit complete APEP reports and records. Appropriate enforcement actions have been taken in these cases. The following compliance statistics were calculated exclusive of these facilities.

Figure 5-1
Compliance With Allocations for First Year



Does not include 20 facilities for which the determination of allocation compilance is pending due to
failure to submit complete APEP reports and records. The total number of facilities which must comply
with an allocation exceeds the current universe of 353 facilities due to changes of ownership.

Forty-six facilities exceeded their allocations for the first year. Forty facilities exceeded their NOx allocation, two facilities exceeded their SOx allocation, and four facilities exceeded both their NOx and SOx allocations, for a total of 50 allocation exceedances.

Preliminary evaluations by AQMD staff indicate that the exceedances were largely due to miscalculations by the facility operators and/or a lack of familiarity with certain program requirements. Reasons for exceedances include:

- Emission Calculation Errors: Emission calculation errors by the facility operators were a factor in about 70 percent of the exceedances. Typical errors included using the wrong emission factor or making arithmetic errors in the calculations.
- Omission of Equipment from Emission Calculations: In about 15 percent of the exceedances, facilities failed to report emissions from process units and/or Rule 219 equipment at the facility, and therefore failed to retain or buy sufficient RTCs.

- Failure to Convert NTCs or Certificates: In about 10 percent of the exceedances, facilities had Non-Tradable Credits (NTCs) or RTC Certificates which, if converted into RTCs and added to their allocations, would have been sufficient to cover their emissions, but failed to convert these NTCs or Certificates.
- Failure to Trade: In about 30 percent of the exceedances, the facility lacked sufficient RTCs to cover its reported emissions, yet did not buy RTCs.

For some facilities, two or more of these factors contributed to the exceedances.

None of the exceedances were due to lack of availability of RTCs on the market. As discussed in Chapter 4, Trading, the amount of NOx and SOx RTCs offered for sale for the first compliance year was more than adequate to cover the demand by RECLAIM facilities.

The exceedances did not affect achievement of the overall emission reduction goals of the program. Despite these exceedances at individual facilities, the total emissions from RECLAIM facilities were well below the total allocations for the year. The total amount of the exceedances was 1.4 tons/day of NOx and 0.1 tons/day of SOx. This represents about 1.3 percent of the total NOx allocation and about 0.39 percent of the total SOx allocation for the first compliance year. Figures 5-2 and 5-3 compare reported emissions and exceedances to the aggregate allocations for NOx and SOx, respectively.

Figure 5-2 NOx Allocations, Emissions and Exceedances For First Compliance Year

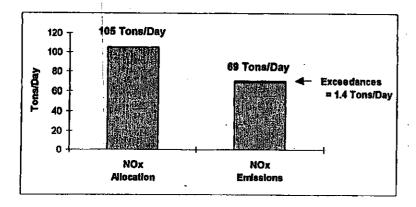
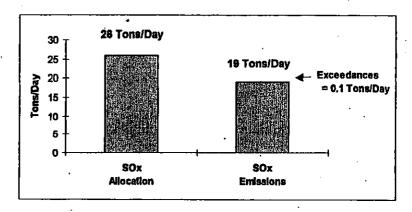


Figure 5-3 SOx Allocations, Emissions and Exceedances For First Compliance Year



The AQMD is currently evaluating the circumstances of the exceedances in order to determine the best enforcement actions to take to ensure improved compliance with allocations in the future. Preliminary review suggests that many exceedances were due to a lack of familiarity with program requirements. This lack of familiarity is not unusual for a new program. Therefore the AQMD's compliance response will include outreach and source education efforts to ensure a better understanding of the rule requirements for emission calculations and allocation compliance.

Monitoring Devices: Continuous Emissions Monitoring Systems (CEMS)

Requirements

In order to ensure the accuracy of reported emissions while minimizing compliance costs, RECLAIM sources are divided into different categories, each with specific MRR requirements appropriate to that category. The categories are based on equipment type and emissions level. NOx sources are divided into major sources, large sources, process units and equipment subject to Rule 219 - Equipment Not Requiring a Written Permit Pursuant to Regulation II. SOx sources are divided into major sources, process units and Rule 219 equipment. Table 5-1 provides the monitoring requirements for these categories.

Table 5-1 Monitoring Requirements for RECLAIM Sources

	Major Sources (NOz and SOz)	Large Sources (NO2)	Process Units (NOx and SOx)	Rule 219 Equipment (NOx and SOx)
Monitoring Method	Continuous Emissions Monitoring System (CEMS)	Fuel Meter or Continuous Process Monitoring System (CPMS)	Fuel Meter or Timer	Fuel Meter or Timer

Major sources require a CEMS. A CEMS is a highly accurate system of equipment that continuously measures all parameters necessary to directly determine mass emissions of a pollutant. The RECLAIM rules require major sources to measure emissions of NOx and SOx through the use of CEMS or an alternative monitoring device which has been determined by the AQMD to be equivalent to CEMS in relative accuracy, reliability, reproducibility and timeliness.

The first compliance year was an interim period during which facilities were allowed to use interim reporting procedures for major sources while CEMS approved by the RECLAIM protocols were installed and certified. The deadlines for installing and certifying CEMS were the end of the first compliance year, i.e., December 31, 1994 for Cycle 1 facilities and June 30, 1995 for Cycle 2 facilities. If CEMS were not installed and certified by these deadlines, the RECLAIM rules as adopted required major sources to use missing data procedures to estimate emissions.

As of November 1995, there were 90 facilities in the RECLAIM universe requiring a total of 399 CEMS.

Compilance Status

A CEMS is a highly complex and customized piece of equipment. Many facilities encountered delays in installing their CEMS. The reasons for delays reported by facilities included:

- · Delays by contractors in the delivery and installation of equipment;
- Problems with the software required to operate the CEMS;
- Unique operations requiring further customization of the system;
- Equipment debugging; and

 Decisions by facilities to pursue derating from a major source to a large source rather than install CEMS.

Of the 90 facilities that required one or more CEMS, 70 facilities petitioned for a variance to obtain additional time for installation and certification. Sixty-five of these variance petitions were granted.

AQMD staff worked with individual facilities to assist them in installing and obtaining certification for CEMS. In addition, AQMD staff responded to the difficulties experienced by facilities by easing certain CEMS-related requirements:

- Emission Calculation Procedure Amendment: The emission calculation
 procedures for major sources without CEMS approval were amended. The
 protocols as originally adopted required the use of a stringent missing data
 procedures when the CEMS deadline is missed. Amendments were adopted on
 March 10, 1995 to allow Cycle 1 facilities to continue using the interim period
 methodology to calculate emissions during the period January 1 through June 30,
 1995.
- Unique Operations and Inordinate Cost Burden Amendments: Rule amendments on September 8, 1995 further extended the period during which facilities with major sources that cannot certify their CEMS due to specific reasons could continue to use the interim period methodology in lieu of the missing data procedures. The amendments extended the period to December 31, 1995 or when the CEMS is certified, whichever is earlier. This provision was retroactive to July 1, 1995. Additionally, the amendments allowed facilities that cannot certify CEMS due to inordinate cost burden associated with flow monitoring or the need for certain special equipment, to continue using the interim procedures to June 30, 1996, or when the CEMS is certified, whichever is earlier, in lieu of the missing data procedures.
- Super Compliance: A new designation of "Super Compliant" was adopted which allowed qualifying facilities to "derate" major sources to a lower category and therefore avoid the CEMS requirement. The Super Compliant amendments to Rules 2011 and 2012, adopted on September 8, 1995, provide for the reclassification of a major NOx source to a large NOx source or a major SOx source to a SOx process unit if the facility can be deemed Super Compliant. The term Super Compliance denotes a facility with current emissions below their adjusted allocation for compliance year 2003, or a facility which can reduce their current emissions by the installation of controls to below their adjusted allocation for compliance year 2003. In order to achieve Super Compliance status, a facility must also retire any RTCs in excess of their year 2003 allocation. This RTC retirement results in an air quality benefit.
- Low Concentration CEMS: Procedures were adjusted to accommodate "low concentration" CEMS. Rule amendments on September 8, 1995 expanded the acceptable valid data range of a CEMS from 20 to 95 percent of the full scan span (FSS) range to 10 to 95 percent. This amendment reduced the applicability of

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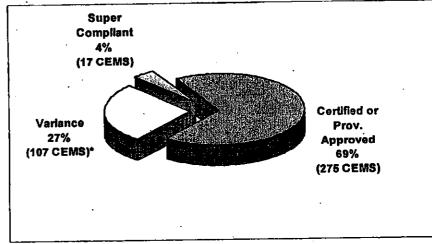
missing data procedures, which are required when the concentration falls outside the acceptable valid data range. Additionally, the amendment allowed data falling below ten percent to be reported at the ten percent value. Furthermore, the amendments allow CEMS that have a "lowest vendor guaranteed" FSS range below ten percent to report actual measured values, rather than using the missing data procedures.

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- Early Use of CEMS: AQMD issued an Implementation Guidance Document on the Early Use of CEMS clarifying that facilities could use existing AQMD-certified CEMS for data reporting during the interim period, rather than missing data procedures.
- Equipment Reconfiguration: AQMD issued an Implementation Guidance
 Document on Equipment Reconfiguration which clarified the conditions under
 which the reconfigured equipment would be deemed to have been recategorized
 into a lower monitoring category (for example, changing a major source to a large
 source), with an accompanying reduction in monitoring requirements and cost.
- Provisional CEMS Approval: AQMD issued an Implementation Guidance
 Document on Provisional CEMS Approval clarifying and easing the reporting
 requirements for sources with late submitted of certification test results. The
 guidance allows for the use of certified CEMS data retroactively to the date of
 submittel, if provisional approval is granted based on the test results.
- Alternative Monitoring and Reporting Systems: AQMD issued an
 Implementation Guidance Document on Alternative Monitoring and Reporting
 Systems clarifying that the AQMD can approve the use of alternate monitoring and
 reporting systems where it is not technologically feasible for a CEMS or other
 monitoring and reporting system to meet all of the performance specifications of
 the RECLAIM protocols. This guidance addressed the technical issue experienced
 by some sources regarding the lack of available CEMS technology to monitor
 extremely low concentrations of SOx.
- ACEMS: The RECLAIM rules as adopted allowed facilities the flexibility to propose the use of alternative continuous emission monitoring systems equivalent to CEMS, referred to as ACEMS.

Figure 5-4 shows the current status of the 399 required CEMS as of December 4, 1995. As of this date, 69 percent of CEMS are either certified or provisionally approved. About 27 percent of CEMS are under variance. About 4 percent of currently required CEMS are at facilities which have applied or plan or plan to apply for Super Compliance status. If Super Compliance status is approved, sources are derated and CEMS is not required Many of the CEMS under variance are close to provisional approval or certification AQMD staff expects progress on CEMS certification to continue at a quick pace.

Figure 5-4 Status of CEMS



 Note: The total number of CEMS under variance exceeds 27 percent because some provisionally approved and certified CEMS are currently under variance.

Monitoring Devices: Fuel Meters and Timers

Requirements

The RECLAIM rules require large sources and process units to install and use certain monitoring devices in order to accurately quantify emissions:

- Large sources must install totalizing fuel meters. The fuel meters measure fuel usage, which is combined with emission factors to determine mass emissions.
- Process units must install totalizing fuel meters and/or timers or equivalent devices.
 Mass emissions are determined by combining fuel usage with emission factors, or combining operating time with production, processing or feed rate.

Major sources are also required to install totalizing fuel meters, which are used in conjunction with CEMS.

All RECLAIM sources were required to have fuel meters and timers installed and operating by the start of the first compliance year, i.e., January 1, 1994 for Cycle I facilities and July 1, 1994 for Cycle 2 facilities.

As of November 1995, the RECLAIM universe includes over 3,500 large sources and process units requiring fuel meters, timers or equivalent devices. An additional 881 major sources require fuel meters in conjunction with CEMS. Essentially all RECLAIM facilities have one or more sources requiring a fuel meter or timer.

Compliance Status

Compliance with the fuel meter and timer requirements was assessed by AQMD staff during site visits to RECLAIM facilities. Most facilities were found to be in compliance with the requirements. Some difficulties were encountered due to issues such as:

- Alternative fuel sources: The RECLAIM rules require a fuel meter or timer on all fuel sources connected to a large source or process unit. Some RECLAIM facilities had equipment connected to alternative fuel sources which were unmetered.
- Sharing of fuel meters: Some facilities had several sources with different classifications and/or emission factors sharing a fuel meter. The RECLAIM protocols require separate fuel meters for such sources in order to quantify emissions accurately.
- Non-operating equipment: Some facilities had not installed fivel meters on certain
 equipment which was not currently operating, but which could operate in the
 fiture.
- By-passes: Some facilities had equipment with unmetered by-passes around their fuel meters.

A minority of facilities (46 facilities, or about 13 percent) were issued Notices to Comply due to missing fuel meters during the first compliance year. Three facilities petitioned for and were granted variances for fuel meter requirements. AQMD staff worked with facilities to resolve concerns regarding fuel meters and timers. Additionally, AQMD took several specific steps to facilitate compliance with these requirements:

- Rule 301 Fees, was amended to reduce fees applicable to certain permit
 modifications. Facilities with equipment having alternative fuel sources had the
 option to either remove the alternate fuel source or install a fuel meter. Removal
 of the alternate fuel source requires an application for a permit amendment for an
 equipment modification. In response to facility concerns about the application fees
 associated with these modifications, Rule 301 was amended to provide for reduced
 fees for such applications.
- AQMD issued a Rule Interpretation on Non-Operating Equipment clarifying acceptable approaches for ensuring the non-operational status of this equipment

and an Implementation Guidance Document on Non-Operating Equipment clarifying procedures for reporting zero emissions from this equipment.

AQMD issued a Rule Interpretation on the Exclusive Use of Timers which clarifies
the circumstances under which facilities can use timers rather than fuel meters to
estimate emissions, thereby reducing costs for facilities.

Due to these efforts and the cooperation of RECLAIM facilities, fuel meter compliance issues have been largely resolved.

Electronic Reporting

Requirements

RECLAIM is designed to take advantage of electronic reporting technology in order to streamline reporting requirements for both the facilities and the AQMD and track compliance. Under RECLAIM, facilities report their emissions electronically on a per device basis to the AQMD's Central Station computer as follows:

- Major sources must use a RTU to telecommunicate rule compliance data to the AQMD Central Station. The RTU collects data, performs calculations, generates the appropriate data files, and transmits the data to the Central Station.
- Rule compliance data for large sources and process units may be transmitted via RTU. Alternatively, RECLAIM facilities may compile the data manually for large sources and process units and transmit it to the Central Station via modem. The data may be transmitted directly from the facility or through a third party.

The first compliance year was a transition period during which facilities were provided time to install and certify the required reporting devices. All reporting devices were required to be installed and transmitting correct data by the end of the first compliance year, i.e., December 31, 1994 for Cycle 1 facilities and June 30, 1995 for Cycle 2 facilities.

All facilities were required to report electronically beginning in the second compliance year. As of November 1995, the total number of major sources, large sources and process units at RECLAIM facilities that are required to report electronically is approximately 5,000.

Compliance Status

Electronic reporting is a new approach for most facilities. Some facilities encountered delays in electronic reporting for several reasons:

- Some facilities encountered delays in obtaining, installing and configuring the software and equipment required for electronic reporting.
- Variances obtained for CEMS installation also provided relief from RTU
 requirements, resulting in delays in electronic reporting from the affected major
 sources.

Despite these delays, electronic reporting devices have been installed and are transmitting data for the majority of sources at RECLAIM facilities. Figures 5-5 and 5-6 show that in Cycle 1, reporting devices for 74 percent of sources are reporting, while in Cycle 2, devices for 60 percent of sources are reporting.

Given the novelty of the electronic reporting requirements for most facilities, some delays are to be expected. AQMD staff will continue to assist facilities in meeting the electronic reporting requirements.

Figure 5-5
Status of Electronic Reporting Devices: Cycle 1

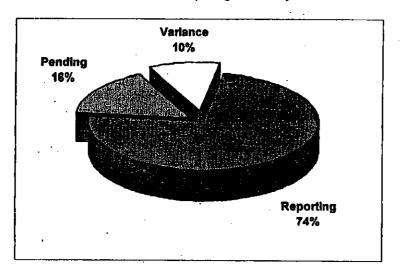
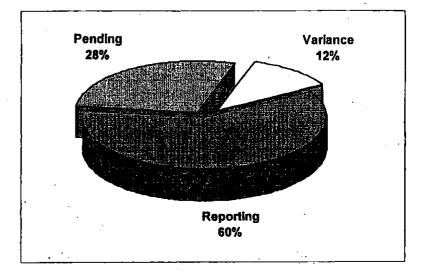


Figure 5-6
Status of Electronic Reporting Devices: Cycle 2



Status of Transition From Command and Control Limits

RECLAIM facilities have made considerable progress during the first compliance year in meeting the important milestones of CEMS certification, fuel meter and timer installation, and electronic reporting despite the unforeseen difficulties and issues that inevitably arise with the implementation of a new program.

Facilities that achieve compliance with all monitoring and reporting requirements for all RECLAIM devices at their facility move into the next phase: the removal of the command-and-control limits from their permits. As of November 30, 1995, staff has determined that 67 RECLAIM facilities have met this challenge.

AQMD staff will continue to work with RECLAIM participants to ensure compliance and respond to facility concerns.

Protocol Review

As required in Rule 2015(b)(1), staff has reviewed "the effectiveness of enforcement and protocols [for the purpose of recommending any appropriate] revisions to the protocols to achieve improved measurement and enforcement of RECLAIM emission reductions while minimizing administrative cost to the District and RECLAIM participants," and has the following recommendations:

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- Staff believes that its compliance program has been comprehensive and highly
 effective. Each RECLAIM facility was visited at least three times during the first
 compliance year, including a visit for the comprehensive annual RECLAIM
 compliance audit. Staff also conducted numerous workshops, training classes, and
 open forums for RECLAIM participants. Staff recommends that the AQMD
 continue to conduct an all RECLAIM compliance audits for each facility and
 conduct other inspections and site visits as appropriate, and continue to offer
 additional source education classes as needed.
- Staff has worked closely with RECLAIM participants to resolve issues and concerns regarding the NOx and SOx MRR protocols in a timely manner. Since the program was adopted, staff has produced several rule interpretation and implementation guidance documents to clarify and resolve specific concerns about the protocols raised by RECLAIM participants. In situations where staff could not make interpretations to existing rule requirements to adequately address the issues at hand, the protocols or rules have been amended. The protocols have been amended three times since program adoption. The most recent amendment to the protocols was on September 8, 1995. Staff also works with RECLAIM participants through the CEMS Working Group to resolve CBMS-related issues. Staff will continue to work closely with RECLAIM participants to continue to resolve concerns in the most timely and appropriate manner.

CHAPTER 6

NEW SOURCE REVIEW ACTIVITY

Summary

The annual program audit assesses NSR activity in order to ensure that RECLAIM is allowing new sources into the program and existing facilities to expand their operations while still meeting the applicable BACT and offset requirements. Review of NSR activity shows that two new facilities began operations, three existing facilities joined the program, and 41 facilities expanded or modified their operations during the first compliance year. Sufficient RTCs were available on the market to meet the demand for offsets by new and expanded facilities.

Background

Generally, state and federal laws require NSR programs to ensure that emission increases from the construction of new or modified stationary sources in nonattainment areas does not interfere with progress towards attainment of ambient air quality standards.

The annual program audit is required to assess NSR permitting activity in order to ensure that RECLAIM has not been a barrier to the entry of new facilities or inhibited the construction and operation of new and modified equipment at existing facilities.

Rule 2005 - New Source Review for RECLAIM, is designed to allow new sources into the program and allow existing facilities to expand while complying with the NSR requirements of state and federal law.

Like Regulation XIII, which specifies the NSR requirements for non-RECLAIM sources, Rule 2005 requires new, relocated and modified sources at RECLAIM facilities with emission increases to meet BACT, modeling and offset requirements.

Rule 2005 requires all RECLAIM facilities to offset their emission increases by providing RTCs at a one-to-one ratio. New or relocated facilities must hold sufficient RTCs to cover annual emissions at the beginning of each compliance year. Existing facilities which install new, modified or relocated equipment are prohibited from operating the equipment unless the facility holds sufficient RTCs to offset the first year of operation.

The AQMD tracks the NSR activity of RECLAIM facilities in order to demonstrate equivalency with federal NSR requirements. Rule 2005(j) requires the AQMD to annually report to the Governing Board on the effectiveness of RECLAIM NSR in meeting federal

requirements for the preceding year. The first report, submitted in May 1995, is attached in Appendix B. The next annual NSR report will be presented to the Board by May 1996.

NSR Activity

Evaluation of NSR data indicates that many facilities successfully opened or expanded their operations under RECLAIM. Table 6-1 summarizes new and expanded operations under the program. Two new facilities began operations and joined RECLAIM. Three existing facilities voluntarily joined the program. Forty-one facilities reported that they started operation of new or modified NOx or SOx equipment during the first compliance year.

Table 6-1

RECLAIM Sources Starting Operation

During the First Compliance Year

New Facilities	2
Existing Facilities Joining RECLAIM	3
Expansions and Modifications at Existing Facilities (New or Modified NOx or SOx Equipment)	41

As described in the Trading chapter of the report, sufficient RTCs were available on the market to meet the total demand for RTCs, including the demand for offsets by new and expanding RECLAIM facilities.

The AQMD will continue to monitor NSR activity under RECLAIM to ensure that progress towards attainment continues without restricting economic growth.

CHAPTER 7

JOB IMPACTS

Summary

Nine of the 353 RECLAIM facilities attribute the RECLAIM program with causing a total of 70 jobs lost. This amounts to approximately four-hundredths of a percent (0.04 percent) of the jobs at RECLAIM facilities. Two Cycle 2 facilities also attribute RECLAIM with causing an increase of one job each. Data pertaining to job increases due to RECLAIM at Cycle 1 facilities is not available. This assessment does not take into account RECLAIM's benefits to the facilities, as compared to command-and-control regulations.

Background

AQMD staff assessed RECLAIM's impact on jobs in the regional economy by examining data submitted by RECLAIM facilities in their compliance year 1994 Annual Permit Emissions Program (APEP) reports.

The Cycle 1 APEP reports include the number of manufacturing and non-manufacturing jobs at each facility at both the beginning and the end of the compliance year. Each facility which reported a decrease in the number of jobs was contacted by AQMD staff in order to determine if the decrease was attributable to the RECLAIM program.

In addition to the numbers of jobs at the beginning and end of the compliance year, the Cycle 2 APEP reports also include assessments of the number of job increases and decreases (as opposed to the net change) which occurred during the compliance year and the extent to which any increase or decrease in the number of jobs is attributable to the RECLAIM program. Each of the four Cycle 2 facilities which indicated job loss due to RECLAIM were contacted in order to obtain more detailed information regarding the facilities' particular circumstances.

AQMD engineers and inspectors familiar with the facilities reporting RECLAIM-related job loss also contributed their experience and expertise to the assessment of RECLAIM's impact on the job market.

Job Impacts at RECLAIM Facilities

Data reported in the compliance year 1994 APEP reports for both Cycle 1 and Cycle 2 facilities, as well as information collected in follow-up conversations between AQMD staff

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and facility representatives, indicates that facility operators attribute the RECLAIM program with a slight reduction in the number of jobs at their facilities. Specifically, RECLAIM is attributed with job loss at nine of the 353 facilities subject to the program. An additional 139 facilities reported job loss which they did not attribute to RECLAIM.

This data is tabulated in greater detail in Table 7-1. Additionally, Figure 7-1 and Figure 7-2 illustrate the net changes in jobs at RECLAIM facilities by cycle.

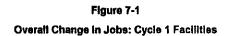
Table 7-1

Job Impacts at RECLAIM Facilities

	Cycle 1	18			
Activity	Manufacturing	Non-Manufact	Mamifacturing	Non-Manufact	Total
Initial Jobs	34,229	29,871	61,182	40,431	165,713
Overall Job Gain	1,341	939	1,539	. 441	4,260
Job Gain Attributed to RECLAIM	N/A	NA.	2.	,0	2 (Cycle 2) N/A (Cycle 1)
Overall Job Loss	4,125	1,419	6,457	4,203	16,204
Job Loss Attributed to RECLAIM	38	9	20	3	
Final Jobs	31,445	29,391	56,264	36,669	153,769
Net Job Change	-2,784	-480	-4,918	-3,762	-11,944
Percent Job Change	-8.1%	-1.6%	-8.0%	-9.3%	-7.2%
Number of Facilities With Job Loss Attributed to RECLAIM*	5	, 3 l	3	2	9

Values do not sum to 9 because some facilities attributed losses in both monufacturing and non-manufacturing jobs to RECLAIM.

N/A = not available



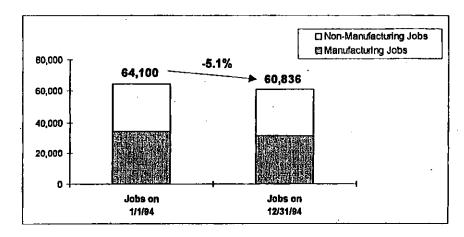
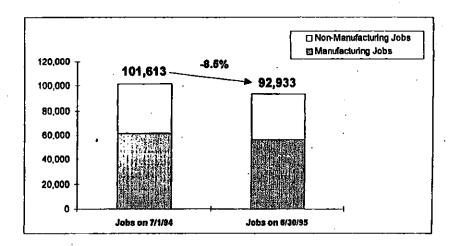


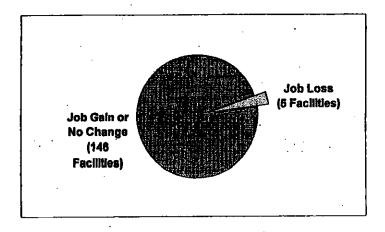
Figure 7-2
Overall Change in Jobs: Cycle 2 Facilities



As identified in Table 7-1, nine RECLAIM facilities attributed job losses due to the RECLAIM program, while two facilities attributed job gains to RECLAIM. Figure 7-3 illustrates the fraction of Cycle 1 facilities which reported job loss due to RECLAIM versus the combined fraction of facilities which reported either no change or a job gain due to RECLAIM while Figure 7-4 presents the fractions of Cycle 2 facilities reporting lob losses, job gains and no job changes due to RECLAIM.

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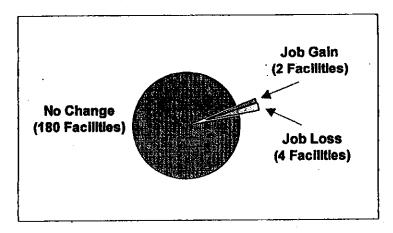
Figure 7-3 Job Impacts Due to RECLAIM: Cycle 1 Facilities



The specific facilities which attribute job loss or gain to the RECLAIM program are identified in Appendix B. This appendix also includes more detailed information about the numbers of jobs lost and gained at each facility, the portion of the losses and gains attributed to RECLAIM, and a summary of the comments provided by the facility representatives.

Appendix E illustrates some interesting aspects of the job losses attributed to RECLAIM. The comments indicate that it might be more accurate to attribute such job loss to air quality regulation in general rather than to RECLAIM in particular, or, in some cases, to the overall regulatory structure of which air quality regulations are only one component.

Figure 7-4 Job impacts Due to RECLAIM: Cycle 2 Facilities



In general, the job impacts reported by facilities tend to consider the costs associated with RECLAIM without accounting for the program's benefits compared to command-andcontrol regulations. RECLAIM facilities do incur certain costs, but they are also able to avoid many costs associated with the regulatory programs with which they would have to comply if they were not in RECLAIM.

This is illustrated by the glass plant which attributes all seven of its lost jobs to RECLAIM as a result of the installation of an oxygenated fuel-fired glass melting furnace. It is very likely that the facility would have installed the new furnace if RECLAIM had not been adopted because RECLAIM subsumed a control measure (#90P-C-7) from the 1991 AOMP which would have required the facility to reduce emissions by approximately 95

Additionally, it should be noted that the analysis of job impacts is confined to job losses and gains occurring at RECLAIM facilities; it does not address jobs created in the economy outside of RECLAIM facilities as a result of the RECLAIM program.

CHAPTER 8

AIR QUALITY AND PUBLIC HEALTH IMPACTS

Summary

At this early stage of implementation, only limited data is available to assess the performance of RECLAIM with regard to the air quality and public health concerns identified in Rule 2015: emission trends, seasonal fluctuations, per capita exposure to air pollution, and toxic risk reduction. However, the currently available data does not suggest significant adverse impacts. RECLAIM facility emissions in 1994 were comparable to 1993 emissions, indicating that the program did not cause an emission increase. No seasonal fluctuations in emissions are discernible at this time. Per capita exposure to ozone was lower in 1994 than projected during program development Basinwide and for all counties except San Bernardino. The AQMD continues to monitor the geographic pattern of emissions from RECLAIM facilities. RECLAIM sources continue to be subject to the same air toxic regulations as other Basin sources, including newly adopted Rule 1402, which requires facilities with significant health risks to implement risk reduction plans.

Background

The RECLAIM program was designed to comply with all applicable requirements of state and federal law, including specific requirements pertaining to air quality and public health. As part of program development, the AQMD conducted extensive analysis of RECLAIM's impacts on air quality and public health, and concluded that RECLAIM would achieve nearly identical benefits compared to the regulatory programs it replaces.

To ensure that RECLAIM achieves the expected air quality and public health benefits during implementation, Rule 2015 provides for annual and three-year assessments. In particular, the annual program audit is specifically required to assess emission trends, seasonal fluctuations in emissions, per capita exposure to air pollution and toxic risk reductions. Based on these requirements and other concerns expressed during program development, this chapter of the report addresses:

- Emission trends for RECLAIM facilities:
- Seasonal fluctuations in emissions:
- · Geographic patterns of emissions;

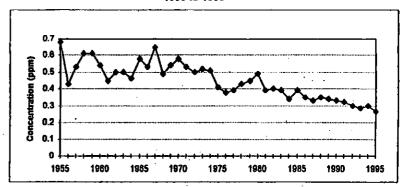
- · Per capita exposure to air pollution; and
- Toxics impacts.

The data available for this first annual program audit report is limited to one full compliance year and part of the second compliance year. This data is not adequate to fully evaluate potential trends in air quality or public health impacts. Additional data will be available for future annual and three-year audits and for the five-year reassessment and associated public hearings. The reassessment and the three-year audits in particular will include an evaluation of whether public health exposure to criteria pollution has been significantly reduced, and whether public health exposure to toxics has not been significantly increased as a result of RECLAIM.

It should be noted that air quality in the Basin is a complex function of meteorological conditions and an array of different emission sources, including mobile, area, RECLAIM stationary sources and non-RECLAIM stationary sources. RECLAIM applies to only a portion of emissions in the Basin. Therefore observed trends in air quality are not necessarily attributable to the implementation of RECLAIM.

Overall, air quality has improved dramatically in the Basin in recent years. Figure 8-1 presents the trend in maximum ozone concentration in the Basin for the past four decades. The figure shows that 1995 was the cleanest year on record.

Figure 8-1
Annual Basin Maximum Ozone
1955 to 1995

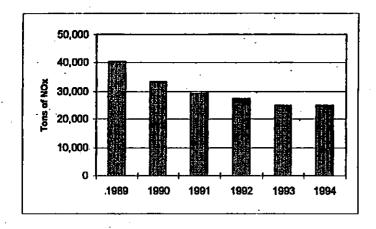


Emission Trends for RECLAIM Sources

During program development, concerns were expressed that RECLAIM might cause sources to increase their emissions during the early years of the program due to a perceived over-allocation of emissions.

Figures 8-2 and 8-3 show the trend in emissions for RECLAIM sources for the years 1989 through 1994. The 1994 emission values combine the first RECLAIM compliance years of both Cycle 1 and Cycle 2 facilities. These charts show an overall downward trend in emissions from RECLAIM facilities over this time period. Emissions in 1994 were not significantly higher than emissions in previous years.

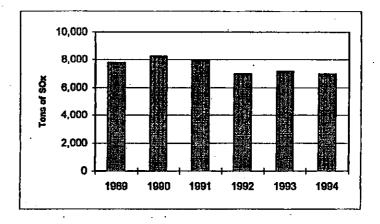
Figure 8-2
NOx Emission Trend for RECLAIM Sources



Seasonal Fluctuation in Emissions for RECLAIM Sources

During program development, concerns were expressed that the RECLAIM program, and particularly the removal of concentration-based emission limits on equipment, might cause facilities to shift emissions from the winter season into the summer ozone season, and therefore exacerbate air quality.

Figure 8-3 SOx Emission Trend for RECLAIM Sources



RECLAIM facilities report their total facility NOx and SOx emissions on a quarterly and annual basis. In order to evaluate seasonal fluctuations in emissions, Figures 8-4 through 8-5 show the quarterly NOx and SOx emission levels of RECLAIM facilities.

At the time of this report, quarterly emissions data is available for the first full compliance year for both Cycle 1 facilities (January through December 1994) and Cycle 2 facilities (July 1994 through June 1995). Subsequent quarterly emission reports have been received by AQMD, but this data is undergoing quality assurance review.

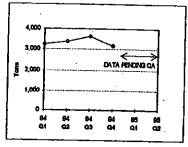
Figures 8-4 and 8-5 present the available quarterly emissions data. Cycle 1 shows little variation in NOx or SOx emissions on a quarterly basis. Quarterly emissions are within ±10 percent of the average quarterly emission level for these facilities. Cycle 2 shows more quarterly variation. In particular, SOx emissions dropped in the first quarter of 1995, then rose again in the next quarter. This pattern is largely attributable to operations at the UNOCAL refinery, which closed certain SOx-emitting operations for retooling in the first quarter of 1995, then began producing reformulated gasoline, with an accompanying SOx emission increase, in the second quarter.

At this early stage of the program, the available data does not clearly indicate any seasonal patterns in emissions which might be expected to persist. The AQMD will continue to monitor and assess seasonal emission patterns for RECLAIM sources as additional data is collected.

Figure 8-4 NOx Quarterly Emissions By Cycle

Cycle 1

Cycle 2



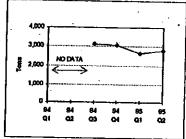
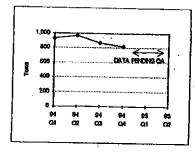
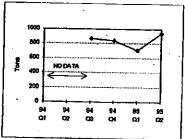


Figure 8-5
SOx Quarterly Emissions By Cycle

Cycle 1

Cycle 2





Geographic Distribution of Emissions

Concerns were raised during program development that RECLAIM could alter the geographic distribution of emission reductions in the Basin and potentially affect air quality in certain areas. To address this concern, the audit report examines quarterly patterns of emissions, and the distribution of reported emissions compared to projected emissions as reflected in the allocations.

Quarterly Emissions Maps

The AQMD maps RECLAIM emissions on a quarterly basis pursuant to Rule 2015(b)(2). Quarterly NOx and SOx emission maps for the first six quarters of the RECLAIM program are included in Appendix G.

In accordance with the RECLAIM compliance schedule, the first two quarters of 1994 include Cycle 1 facility emissions only. The following quarters include both Cycles 1 and 2. These maps are preliminary and subject to revision pending quality assurance review.

The quarterly maps available to date do not appear to show any distinct shift in the geographic pattern of emissions. The AQMD will continue to produce quarterly maps and assess the geographic pattern of emissions as additional quarterly emissions data becomes available.

Annual Emissions Maps

To further evaluate whether RECLAIM has caused a geographic shift in emissions, the reported annual emissions from RECLAIM facilities for the first compliance year were mapped and compared to the expected emissions as reflected in the distribution of RTCs for 1994. These maps are provided in Appendix H.

The certified emissions maps combine emissions data for the first compliance years for both Cycles 1 and 2.

These maps show that in each geographic sector, reported emissions from RECLAIM facilities were in the same or lower range than the allocated emissions for the first compliance year. The maps do not appear to show any distinct geographic shift in emissions. The AQMD will continue to assess the geographic pattern of emissions as additional data becomes available.

Per Capita Exposure to Air Pollution

Per capita population exposure reflects the length of time the Basin population is exposed to unhealthful air quality. The California Clean Air Act establishes specific milestones for achieving reductions in overall population exposure to severe nonattainment pollutants in the Basin. These milestones are 25 percent reduction by December 31, 1994, 40 percent by December 31, 1997, and 50 percent by December 31, 2000, compared to a 1986-88 baseline.

Modeling performed during program development projected that the Basin would comply with these milestones, with a margin of safety, under NOx and SOx RECLAIM. The

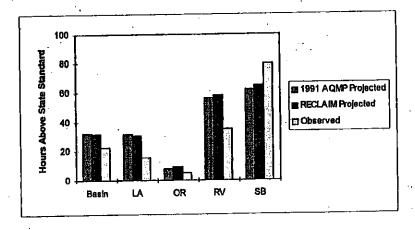
modeling showed that compared to the 1991 AQMP, per capita exposure reductions under RECLAIM would be nearly identical for 1994, and greater in 1997 and 2000.

However, the modeling also projected that while RECLAIM would decrease overall Basin-wide ozone exposure, RECLAIM might increase per capita ozone exposure in all counties except Los Angeles county in 1994.

Figure 8-6 compares the average per capita ozone exposure observed in 1994 to the exposure levels projected for the 1991 AQMP and RECLAIM during program development. The figure shows that exposures for the Basin as a whole were substantially lower than projected. Exposures were also lower than projected for all counties except San Bernardino.

The effect, if any, of RECLAIM on exposure patterns is difficult to assess due to fluctuations in annual meteorology. The AQMD will continue to monitor and assess exposure patterns as additional data becomes available in future years.

Figure 8-6
1994 Per Capita Ozone Exposure:
Projected vs. Observed



Toxics Impacts

During program development, a comprehensive evaluation of the potential impacts of RECLAIM on air toxic emissions was performed. This analysis concluded that RECLAIM would not result in any significant impacts on air toxic emissions.

Nevertheless, in order to ensure that the implementation of RECLAIM does not result in adverse toxics impacts, the annual program audit is required to assess toxic risk reductions.

RECLAIM sources are subject to the same air toxic regulations as other sources in the Basin. Air toxics programs applicable to sources in the AQMD include:

- The federal National Emission Standards for Hazardous Air Pollutants (NESHAP) program, under which the EPA promulgates standards for specific source categories of air toxics;
- The state AB 2588 Air Toxics "Hot Spots" Program, which requires certain facilities to report their toxic emissions, notify exposed persons about significant health risks, and implement risk reduction plans;
- The state AB 1807 Toxic Air Contaminant Identification and Control Program, under which the state identifies toxic air contaminants and promulgates air toxic control measures for specific source categories; and
- Rule 1401 New Source Review of Carcinogenic Air Contaminants, which limits increases in carcinogenic air contaminants from new, modified and relocated sources.

Since RECLAIM was adopted in October 1993, the AQMD has continued to implement these programs as well as adopt and implement new air toxic control measures pursuant to state and federal requirements. Toxic regulations promulgated since October 1993 include:

- Rule 1402 Control of Toxic Air Contaminants from Existing Sources, which
 requires certain facilities with significant health risks to implement risk reduction
 plans, adopted pursuant to AB 2588 as amended by SB 1731;
- Rule 1407 Control of Emissions of Arsenic, Cadmium and Nickel from Non-Ferrous Metal Melting Operations, adopted pursuant to the AB 1807 program; and
- Twelve new federal NESHAPs.

These regulations will further ensure that RECLAIM does not result in adverse air toxic health impacts. Rule 1402 in particular will ensure that any RECLAIM facilities which are found to pose a significant health risk will be required to reduce the risk.

The AQMD will continue to monitor and assess toxic risk reduction as part of future annual and three-year audits.

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CHAPTER 9

OTHER PROGRAM ACTIVITIES

Summary

In order to further improve the effectiveness of RECLAIM, AOMD staff has conducted a variety of other activities. These activities include: an extensive public outreach effort involving workshops, seminars, open forums and written guidance materials for RECLAIM participants; amendments to Rules 2011 and 2012 to ease the burden of monitoring and reporting requirements on major sources; other Regulation XX amendments to address specific concerns identified by RECLAIM participants and EPA; rule development activities to expand the RECLAIM trading market into mobile and area sources, and to develop the concept of a universal trading credit; the development of a VOC RECLAIM program; NOx emission factor reviews; a SOJSO, monitoring feasibility evaluation: and a control technology assessment for specific source categories of

Other Program Activities

In addition to the tasks directly associated with implementation and enforcement of the program, staff has conducted a variety of other activities to support RECLAIM and improve its effectiveness. These activities include:

- An extensive public outreach effort;
- Expansion of the credit trading market;
- The development of a RECLAIM program for VOCs;
- · Evaluation of NOx emission factors for process units and SO, monitoring feasibility, in response to Board direction;
- · Control technology reviews for specific source categories; and
- Other RECLAIM rule amendments.

Each of these activities is discussed below.

Public Outreach

Since the adoption of RECLAIM, AQMD staff has held numerous public workshops, training seminars, open forums and other meetings with RECLAIM facilities to facilitate the implementation of the program. This public outreach program has been effective in explaining and clarifying rule requirements for facilities, and providing feedback to AOMD staff on facility concerns. Table 9-1 lists public outreach events conducted by AQMD staff. AQMD staff has also made a concerted effort to meet with individual facilities when the representatives have been unable to attend public meetings and seminars, and to address their specific concerns.

Staff has also produced 12 Rule Interpretations and Implementation Guidance documents to increase flexibility and clarify program requirements in response to specific concerns. Appendix D provides a list of these documents. Issues addressed by these documents include early use of CEMS, provisional CEMS approval, missing data procedures for large sources, and conversion of ERCs to RTCs. These documents have been distributed to RECLAIM participants.

AQMD staff will continue to hold seminars, forums and other outreach events and address implementation issues on an ongoing basis as the RECLAIM program progresses.

Table 9-1 **RECLAIM Public Outreach Events**

Date	Event	Number of Attendees
December 15, 1993	General Rule & MRR Requirements Seminar, Cycle I	75
December 21, 1993	RTC Seminar	75
January 25, 1994	CEMS Seminar for Cycle 1 Facilities	75
March 10, 1994	RECLAIM Implementation Consultation Meeting with Refineries	30
June 3, 1994	Rules 2011 and 2012 Amendment Workshop	60
June 27, 1994	General Rule & MRR Requirements Seminar, Cycle 1 & 2	100+
July 28, 1994	ACEMS Pilot Program Workshop	40
November 10, 1994	Rule 2002 Amendment Workshop	10
May 18, 1995	1st Implementation Forum	100+
June 7, 1995	Rules 2011 and 2012 Amendment Workshop	100+
June 15, 1995	RTC Forum	70
July 11, 1995	Rule 2002 Amendment Workshop	20
July 18, 1995	Rules 2011 and 2012 Amendment Workshop	100+
July 27, 1995	2nd Implementation Forum	100+
September 5, 1995	Regulation XX Amendment Workshop	35
October 18, 1995	ACEMS Status Meeting	30
December 13, 1995	3rd Implementation Forum	50
Ongoing	Over 1,000 individual facility meetings	

Other Rule Amendments

As in any newly adopted program, unforeseen or unique operations not addressed in the RECLAIM rules have been brought to staff's attention. Staff has worked with RECLAIM facilities to provide rule interpretations or implementation guidance which allow RECLAIM sources to meet program requirements in the most practical manner. In some situations, however, staff cannot make interpretations from the existing rule language which adequately address the situation at hand. Amendments to the RECLAIM rules were proposed, and subsequently approved by the Governing Board, which address the situations or concerns raised by industry in such cases.

January 1996

Regulation XX has been amended by the Governing Board four times since RECLAIM's adoption on October 15, 1993. The amendments which pertain to the NOx and SOx monitoring, reporting and recordkeeping protocols are also discussed in the Compliance chapter of the report. The amendments pertaining to the Control Technology Assessments are discussed in a later section of this chapter. The amendments are:

- . September 1994 Amendments: The NOx and SOx Protocols (Appendix A to Rule 2011 and Appendix A to Rule 2012) were amended on September 9, 1994. These amendments allow RECLAIM facilities to calculate major source missing data from historical data based upon EPA-promulgated procedures. This enables facilities subject to both RECLAIM and EPA's Title IV (Acid Rain) program to use a common missing data procedure under both programs if certain CEMS testing requirements are met. Additionally, the amendments incorporate an option for facilities to use a bias adjustment factor if the CEMS does not pass the Bias Test. This will allow facilities to reduce the number of tests conducted.
- March 1995 Amendments: The protocols for Rules 2011 and 2012 were amended on March 10, 1995 to ease the reporting requirements for major sources which were unable to meet the certification deadline for CEMS. This amendment allowed Cycle 1 major sources which did not have approved CEMS to continue using the interim period methodology to calculate mass emissions during the period January 1, 1995 to June 30, 1995. This amendment also corrected an inadvertent omission of the missing data procedures for major SOx sources and made the procedures for major SOx sources and major NOx sources consistent.
- September 1995 Amendments: On September 8, 1995, the Governing Board amended Rules 2011 and 2012. These amendments helped to ease the burden of RECLAIM's monitoring and reporting requirements as they pertain to major sources. Specifically, the amendments:
 - Provide for the reclassification of a major NOx source to a large NOx source or a major SOx source to a SOx process unit, if a facility can be deemed "Super Compliant." The term Super Compliant denotes a facility with current emissions that are below their adjusted allocation for compliance year 2003 or a facility which can reduce their current emissions by the installation of air pollution control equipment to below their adjusted allocation for compliance year 2003. Three facilities -- two asphalt batch plants and a manufacturer of

roofing granules -- have received provisional approval as Super Compliant facilities.

- ♦ Expand the acceptable valid data range of a CEMS from 20 to 95 percent of the FSS range to 10 to 95 percent of the FSS range. This will also apply to O2 analyzers. The NOx and SOx Protocols as initially adopted required the use of Missing Data Procedures anytime a CEMS is reading concentrations below 20 percent of FSS range. Since the RECLAIM program focuses on the measurement and reporting of actual emissions and the use of Missing Data Procedures does not necessarily yield the measurement or reporting of actual emissions, it is imperative that a RECLAIM CEMS can accurately measure emissions at both low and high concentrations. To accommodate the capturing of low emissions, the protocols were amended to increase the valid range of acceptable CEMS data to 10 to 95 percent of FSS range.
- Include procedures under which a CEMS has the "lowest vendor guaranteed" FSS range below ten percent can report actual measure values, rather than resorting to Missing Data Procedures. The amended procedures address the fact that some CEMS technology has advanced to the point that it can accurately read low concentrations below ten percent of lowest vendor guaranteed FSS range. The procedures also provide a technological incentive to other CEMS manufacturers to improve their instruments' accuracy at low concentrations.
- Amend the Missing Data Procedures to allow facilities with major sources that cannot certify CEMS using standard equipment to continue using, under specified conditions, the interim period emissions calculation methodology until December 31, 1995 or when the CEMS is finally certified, whichever is earlier, in lieu of using the Missing Data Procedures. This calculation procedure is retroactive to July 1, 1995. Also, amend the Missing Data Procedures to allow facilities with major sources that cannot certify CEMS because: there is an inordinate cost burden associated with flow monitoring as specified under (B)(11); and they cannot apply the Reference Methods as specified in Rules 2011(h)(1) and 2012 (j)(1) and Appendix A, to continue using the interim period emissions calculation methodology up until June 30, 1996 or when the CEMS is finally certified, whichever is earlier, in lieu of using the Missing Data Procedures. This calculation procedure is retroactive to July 1, 1995.
- Change the relative accuracy requirements for stack gas volumetric flow measurement systems from ten percent to 15 percent. This change is consistent with the EPA's Acid Rain Program relative accuracy requirements.
- December 1995 Amendments: Further amendments to Regulation XX were adopted on December 7, 1995. In addition to the amendments adopted pursuant to the control technology review discussed below, these amendments addressed concerns identified by EPA as issues for the program to receive SIP approval. The

air pollutant program. The program is scheduled for public hearing and adoption in April reduction, monitoring requirements, and coordination with the federal Title III hazardous

NOx Emission Factors for Process Units

Rule 2002 emission factors are appropriate. AQMD. Staff is currently analyzing the test data to determine whether any changes to the completed testing and analysis in January 1995 and has presented its final report to the including boilets, internal combustion engines, furnaces, ovens and heaters. CERA measuring NOx emissions and perform source tests on a wide variety of equipment with the Center for Emissions Research and Analysis (CERA) to develop a protocol for or rates for process units. To accomplish this Board direction, AQMD staff contracted In October 1993, the Board directed staff to update the Rule 2002 MOx emission factors

SO,/SO, Feasibility Study

utilizing 50, as a suffogate for measuring 50, for PCCUs. the feasibility of measuring SO2 on a continuous basis or determine the applicability of (FCCUs). When the RECLAIM rules were adopted, the Board directed staff to ascertain sulfur dioxide (5O₂) and sulfur trioxide (5O₃) at refinery fluid catalytic cracking units Rule 2011 requires the AQMD to develop unit specific protocols for the determination of

testing was proposed to WSPA to demonstrate that SO, could be quantified and validate the proposed method. These tests demonstrated the feasibility of the method, and further limited field source testing at two refineries were conducted to evaluate the feasibility of FCCU stack emissions in the presence of ammonia. Preliminary laboratory studies and a modification to the manual method for determining SOx to distinguish SO, from SO, in and SO₂. Under contract to WSPA, an independent testing firm, Almega Corp., proposed collaborative effort to develop and validate test methodology to discriminate between SO, The AQMD and the Western States Petroleum Association (WSPA) entered into a

Emission Sampling) to measure SOx during the certification of SOx CEMS. AQMD Method 100.1 (Instrumental Analyzer Procedures for Continuous Gaseous (Determination of Sulfuric Acid and Sulfur Oxides from Stationary Sources) in lieu of protocols. Staff agreed to the use of the lesser modification to AQMD Method 6.1 to the total SOx is relatively small, and within the +/- 20% tolerance of the monitoring factor. The feasibility testing and the two refineries indicated that the contribution of SO. the RECLAIM monitoring protocols, would then be accounted for by the use of a bias FCCU CEMS. The contribution of the SO, if statistically significant from the bias test in sulfates be reported as the total of SO, and SO, and used as a certification procedure for (Fig. 180 - 180 method be modified to quantify all gascous (between 180 - 210 degrees Fig. the use of a bias adjustment factor whereas before none could be used. They proposed bewed as the revision to the RECLAIM monitoring protocols that allowed lesser (non-significant) modification of the manual method for determining SOx. This In lieu of conducting these further tests and incurring added costs, WSPA proposed a

> adding exemptions for ski resorts and San Clemente Island were adopted. was continued until the March 1996 Board meeting. In addition, rule amendments federal land manager notice for major modifications at major stationary sources, Program showings. One SIP issue involving visibility protection analysis and Executive Officer discretion, test methods, and EPA's Economic Incentive amendments adopted to address SIP issues included: definitions, variances, NSR,

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further refinements as appropriate on an ongoing basis. AQMOA staff will continue to assess the effectiveness of the RECLAIM rules and propose

Trading Market Expansion

Significant progress has been made in achieving this market expansion: quantifiable reductions from mobile, area and other stationary sources within the Basin. enission reductions across a spectrum of sources by allowing trading of emission units for The RECLAIM program was adopted with the vision that it would expand to achieve

- amendments and other actions necessary to implement this concept. Board with formal recommendations and an action plan identifying rule credit market. Staff is seeking public input on the paper and will return to the AQAD staff has prepared a discussion paper on the concept of a universal trading Universal Trading Credits: In response to a request from the Governing Board,
- scheduled for adoption in April 1996. for Lawn, Garden and Utility Equipment, is in development and tentatively compliance with certain other AQMD programs. Proposed Rule 1623 - Credits credits which can be converted to RTCs or used as an alternative means of Mobile Equipment. These rules establish voluntary programs for generating Credits for Clean On-Road Vehicles, and Rule 1620 - Credits for Clean Off-Road • Mobile Source Credits: In September 1995, the Board adopted Rule 1612 -
- .3001 etal ni noitqoba committee will be workshopped and a proposed rule is tentatively scheduled for source credits program. The proposal developed with the assistance of this Steering Committee has been formed to assist in the development of the area credits which could be converted to RTCs or used in other AQMD programs. A emission reductions from small, "area-wide" sources could be used to generate . Area Source Credits: Under the proposed area source credits program, voluntary

VOC RECLAIM

structure of the VOC RECLAIM program will be similar to the NOx and SOx RECLAIM RECLAIM program as currently envisioned would apply to about 1,200 facilities. The VOC emissions with the same flexibility as NOx and SOx RECLAIM facilities. The VOC The AQMD is developing a VOC RECLAIM program which will provide facilities with

working with interested parties to resolve remaining issues concerning allocations, rate of The VOC RECLAIM program is in the final stages of development. Staff is currently

Control Technology Assessment

RECLAIM requires participating facilities to reduce emissions from current levels to levels equivalent to those specified in the 1991 AQMP for the years 2000 and 2003. At the time of adoption, some industries had concerns about the amount of reductions proposed in the AQMP. Therefore Rule 2015 required an evaluation of the ending emission factors for six source categories: glass melting furnaces; gray cement kilns; steel slab reheating, flat rolled product annealing and flat rolled product galvanizing furnaces; metal melting furnaces; hot mix asphalt operations; and petroleum coke calcining.

The technology review for petroleum coke calcining was completed and approved in March 1995. The technology reviews for the remaining five source categories were subsequently completed and staff proposed two revisions to Rule 2002 emission factors based on the results. These revisions were included in proposed rule amendments presented to the Board on December 7, 1995. Staff proposed that the ending emission factor for gray cement kilns be amended from 0.98 to 2.73 pounds of NOx per ton of clinker, and the ending emission factor for container glass furnaces be amended from 0.24 to 1.2 pounds of NOx per ton of glass pulled. The glass furnace emission factor revisions to 1.2 pounds of NOx per ton of glass pulled. The glass furnace emission factor revisions factors was continued to the March 1996 Board meeting in order to address CEOA issues.

CHAPTER 10

RECOMMENDATIONS

The audit results indicate that the implementation of RECLAIM during the first compliance year was highly successful. It is recommended that AQMD staff:

- Continue to develop area and mobile source credits programs to ensure an adequate future supply of cost-effective emission reductions credits;
- Continue to investigate the feasibility of linking AQMD's mobile and stationary source credits in order to provide additional compliance flexibility;
- Conduct a study to determine the feasibility of extending the market incentive concept to other criteria pollutants such as carbon monoxide (CO) and particulate matter (PM10); and
- Continue to monitor and assess the seasonal and geographic patterns of emissions from RECLAIM facilities as additional data becomes available in the future and make any necessary adjustments if information indicates that RECLAIM has created adverse air quality or public health impacts.

APPENDIX A

RECLAIM UNIVERSE OF SOURCES

The RECLAIM universe of sources as of November 1995 is provided below.

		·	88
		Facility Name	Markét
16395	_	AAA GLASS CORP	NOx NOx
73635	-	ABLESTIK LABORATORIES	NOX NOx
23752	_	AEROCRAFT HEAT TREATING CO INC	NOX
42676	_	AES PLAÇERITA INC ALL AMERICAN ASPHALT	NOx
5998 3704		ALL AMERICAN ASPHALT, UNIT NO.01	NOx
800003	-	ALLIED SIGNAL INC	NOx
21290		ALPHA BETA COMPANY, FOOD 4 LESS	NOx
21837		ALPHA RESINS CORP	NOx
17840		ALPHA THERAPEUTIC CORP	NOx
800339		ALTA DENA CERTIFIED DIARY INC.	NOx
12247			NOx
17418		ALUMAX MILL PRODUCTS INC. ALUMINUM COMPANY OF AMERICA	NOx
42333	-	AMERICAN NATIONAL CAN COMPANY	NOx/80x
52517		AMERICAN NATIONAL CAN COMPANY	NOx
45527	-	AMERICAN RACING EQUIPMENT INC	NOx
6394	_	ANAHEIM FOUNDRY INC.	SO _X
61970	-	ANAHEIM MILLS CORP	NOx
18984		ANCHOR GLASS CONTAINER CORP	NOx/80x
21598	_	ANGELICA HEALTHCARE SERVICES GROUP INC	NOx
10141		ANGELICA HEALTHCARE SERVICES GROUP INC	NOx
74424		ANGELICA HEALTHCARE SERVICES GROUP INC	NOx
18642	ī	ANHEUSER-BUSCH INC.(LA BREWERY)	NOx/80x
800012	2	ARCO	NOx/SOx
47232	1	ARCO CQC KILN	NOx/SOx
65974	1	ARCO OIL & GAS COMPANY	NOx
12155	t	ARMSTRONG WORLD INDUSTRIES, INC.	NOx
800342	2	ARTESIA DYEING, FINISHING & PRINTING INC	NOx
16737	2	ATKINSON BRICK CO	NOx
10094	2	ATLAS CARPET MILLS INC	NOx
800328	1	AVERY DENNISON, FASSON BASE MATERIALS	NOx
17400	1	AVERY FASSON-MPD	NOx
800016	2	BAKER COMMODITIES INC	NOx
57722	1	BALL-INCON GLASS PACKAGING CORP.	NOx
800205	2	BANK OF AMERICA	NOx

Facility ID	Cvcia	Facility Name	Market
59968	1	BARMET ALUMINUM CORP.	NOx
800232	2	BEATRICE/HUNT-WESSON FOODS	NOx/SOx
40034	1	BENTLEY MILLS INC.	NOx
5181	2	BLUE DIAMOND MATERIALS, DIV SULLY-MILLER	NOx
14445	2	BORAL RESOURCES INC. FONTANA PLANT	NOx
602	1	BORAL RESOURCES INC., CORONA PLANT	NOx
19390	1	BORAL RESOURCES, INCSUN VALLEY PLANT	NOx
19563	2	BP CHEMICALS (HITCO) INC, FIBERS & MATERIALS	NOx
19212	2	BP CHEMICALS (HITCO) INC, FIBERS & MATERIALS	NOx
800329	1	BREA CANON OIL COMPANY	NOx
10340	1	BREA CANON OIL COMPANY, INC.	NOx
92019	2	BREA CANON OIL COMPANY-ALBERT LEVINSON	NOx
6714	2	BREA CITY	NOx
98159	2	BREITBURN ENERGY CORPORATION	NOx
2443	2	CAL INDUSTRIAL PROCESSING CO	NOx
8791	2	CAL-PACIFIC DYEING & FINISHING CORP	NOx
22807	2	CALIFORNIA MILK PRODUCERS	NOx
800181	2	CALIFORNIA PORTLAND CEMENT CO	NOx/SOx
800344	1	CALIFORNIA STATE, AIR NATL.GUARD	NOx
46268	1	CALIFORNIA STEEL INDUSTRIES, INC.	NOx
104013	2	CALRESOURCES LLC	NOx
104015	2	CALRESOURCES LLC	NOx
104017		CALRESOURCES LLC	NOx
67945		CANADA MALTING CO LTD, GREAT WESTERN MALT	NOx/SOx NOx/SOx
9141	1 2 .	CANNERS STEAM COMPANY, INC. CARLTON FORGE WORKS	NOx
22911 84079	_	CARSON COGENERATION CO., CALIF LMTD PARTN	NOx NOx
25016	2	CASTAIC CLAY MFG CO., INC	NOx
104018	2	CBPO OF AMERICA, INC	NOx
11034	2	CENTRAL PLANTS INC	NOx
11197	2	CENTRAL PLANTS INC	NOx
9053	1	CENTRAL PLANTS INC.	NOx
16575	i	CENTRAL PLANTS INC.	NOx
9217	i	CENTRAL PLANTS, INC.	NOx
40784	- 1	CENTURY LAMINATORS, INC.	NOx
75479	1	CES ENERGY ALBERHILL LTD	NOx
57818	i	CES ENERGY CORÓNA, LTD.	NOx
800273	2	CHEMOIL REF CORP	NOx
4451	ĩ	CHERRY TEXTRON	NOx
800030	ż	CHEVRON U.S.A. INC	NOx/SOx
800337	2	CHEVRON U.S.A.,INC.	NOx
15381	2	CHEVRON USA INC	NOx
95212	1	CHROMA SYSTEMS PARTNERS	NOx
51935	• •	CIBA-GEIGY, COMPOSITE MATERIAL	NOx
24199	2	CLEAN STEEL INC	NOx
16978	2	CLOUGHERTY PACKING CO, FARMER JOHN MEATS	NOx
55349	2	COLOR AMERICA TEXTILE PROCESSING INC	NOx
53080	ĩ.	COLORTEX DYEING & FINISHING, INC.	NOx
69677	2	COLUMBIA PACIFIC ALUMINUM CORPORATION	NOx '
11790	2	CONSOLIDATED FILM INDUSTRIES	NOx
	_		

Facility (f)	Cvel	e Facility Name	Market
22373	1	CONTAINER CORPORATION OF AMERICA	NOx
37385	2	CONTINENTAL BAKING COMPANY INC	NOx
68042	2		NOx NOx
14092		CPC INTERNATIONAL INC. BEST FOODS DIV	NOx NOx
13179	1	CRESCENT GRANES INC.	NOx NOx
65384	i	CRITERION CATALYST COMPANY L.P.	NOx NOx
83278	1	CROWN BEVERAGE PACKAGING INC.	*
18848	1	CROWN CITY PLATING COMPANY	NOx NOx
3950	1	CROWN CORK & SEAL COMPANY, INC.	NOx
15982	2	CUSTOM ALLOY SALES INC	NOx NOx
63180	1	DARLING-DELAWARE COMPANY, INC.	NOx NOx
3721	2	DART CONTAINER CORP OF CALIFORNIA	NOx
7411	2	DAVIS WIRE CORP	NOx NOx
47771	1	DELEO CLAY TILE COMPANY	NOx NOx
800037	2	DEMENNO/KERDOON	NOx NOx
5288	2	DIESEL RECON CO	NOx NOx
800189	1	DISNEYLAND RESORT	NOx
98588	2	DOMTAR GYPBUM	NOx/SOx
10055	2	DOMTAR GYPSUM INC	NOX
103618	ī	DOSKOCIL SPECIALTY BRANDS FOOD	NOx
800038	ż	DOUGLAS AIRCRAFT CO	NOx
800039	2	DOUGLAS AIRCRAFT CO. TORR FAC	NOx
800264	2	EDGINGTON OIL COMPANY	NOx/SOx
10873	1	ELSINORE READY-MIX COMPANY, INC.	NOXISOX
11103	1	ENTENMANN'S INC./OROWEAT FOODS	
17763	2	EPE TECHNOLOGIES, INC	NOx
. 8439	2	EXXON CO. USA	NOx NOx
22803	1	EXXON COMPANY USA: CASTAIC JUNCTION	NOx
22047	i	FANSTEEL/CALIFORNIA DROP FORGE	NOX NOX
61209	1	FILTROL CORPORATION	NOx NOx
61210	1	FILTROL CORPORATION	NOx
800047	2	FLETCHER OIL & REF CO	NOx/SOx
11718	1	FONTANA PAPER MILLS INC.	NOx
75373	2	FPB COGEN INC	. NOx
348	1	FRITO-LAY INC.	NOx
2418	2	FRUIT GROWERS SUPPLY CO	NOx
60942	2	GAF BUILDING MATERIALS CORPORATION	NOx/SOx
5814	1	GAINEY CERAMICS INC.	NOx
79015	2	GEO PETROLEUM INC 1	NOx
11018		GEORGIA-PACIFIC CORP	NOx
44551	1	GNB INCORPORATED	NOx
800184	2	GOLDEN WEST REFINING CO	NOx/80x
101039	2	GRANITE CONSTRUCTION	NOx
8694	1	GRANNY GOOSE FOODS INC, BELL BRAND FI DIV	NOx
40198	2	GUARDIAN INDUSTRIES INC	NOWSOX
57304	2	HARBOR COGENERATION CO	NOx
600295	1	HENKEL CORP., EMERY GROUP	NOx

^{1.} This facility is a member of the RECLAIM universe but did not participate in RECLAIM during the first compliance year due to pending legal action involving the lack of valid permits.

	•		
acility ID		Facility Name	Market
15164	1	HIGGINS BRICK COMPANY	NOx
800066	1	HITCO	NOx
2812	2	HOLLIDAY ROCK CO INC	NOx
80008	2	HUGHES AIRCRAFT CO	NOx
B0D343	2	HUGHES AIRCRAFT CO, EDSG	NOx
800067	1	HUGHES SPACE & COMM.COHUGHES AIRCRAFT	NOx
890070	1	HUNTWAY REFINING COMPANY	NOx
12224	2	ideal dyeing & finishing co., inc	NOx
100291	2	IMCO RECYCLING OF CALIFORNIA	NOx
7179	2	INDUSTRIAL ASPHALT	NOx
20797	2	INDUSTRIAL ASPHALT	NOx
21395	2	INDUSTRIAL ASPHALT	NOx
22164	2	INDUSTRIAL ASPHALT	NOx
10915	2	INDUSTRIAL ASPHALT/HUNTMIX INC GEN PRTNR	NOx
800240	2	INLAND CONTAINER CORP	NOx
5830	1	INTERMETRO INDUSTRIES CORP.	NOx
23589	2	INTL EXTRUSION CORP	NOx
54183	2	INTL PERMALITE INC	NOx
42577	2	IPT ENERGY MANAGEMENT CORP	NOx
18885	2	KAL KAN FOODS INC	NOx
11981	1	KETEMA INC., ALUMINUM EXTRN DIV.	NOx
11142	2	KEYSOR-CENTURY CORP	NOx
21887		KIMBERLY-CLARK CORP	NOx/80x
1744	2	KIRKHILL RUBBER CO	NOx
57329	2	KWIKSET CORP	NOx
600335	2	LA CITY, DEPT OF AIRPORTS	NOx
800170	1	LA CITY, DWP HARBOR GENERATING STATION	NOx
800074	1	LA CITY, DWP HAYNES GENERATING STATION	NOx
800075	1	LA CITY, DWP SCATTERGOOD GENERATING STN.	NOx
800193	2	LA CITY, DWP; VALLEY STM PLANT	NOx
81882	1	LA CITY, HARBOR DEPT.	NOx
40030	1	LA DYE & PRINT WORKS INC.	NOx
51949	1	LA DYE & PRINT WORKS INC.	NOx
41582	1	LA DYE & PRINT WORKS, INC.	NOx
800078	2	LEVER BROS CO	NOx
12912	2	LIBBEY GLASS, INC	NOx
83102	2	LIGHT METALS INC	NOx
31048	2	LISTON BRICK COMPANY OF CORONA	NOx
101578	2	LOMITA GAS CO	NOx
95524	2	LOMITA GASOLINE COMPANY INC	NOx
14229	2	LORBER INDUSTRIES OF CALIFORNIA	NOx
58822	2	LOS ANGELES COLD STORAGE CO	NOx
7931	1	LOS ANGELES PAPER BOX & BOARD MILLS	NOx
73790	2	LUCKY CONTAINER INC	NOx
13978	1	LUCKY STORES INC.	NOx
800080	2	LUNDAY-THAGARD OIL CO	NOx
103672	1	MACQUIRE THOMAS PARTNERS	NOx
14049	2	MARUCHAN INC	NOx
3029	2	MATCHMASTER DYEING & FINISHING INC	NOx
83444	2	MCGAW INC	NOx

Facility ID Cycle Facility Name Meritang Merita										
2022 1 MCP PODOS INC. NOX 2004 2 R.P. DÓNRELEY & SONS CO, LA MFO DIV NOX 100144 2 MECHALION CALIF PROPERTIES NOX 2004 R.P. PROPERTIES NOX 100144 2 MECHALION CALIF PROPERTIES NOX 100144 2 MECHALION CALIFORNIA NOX 100144 1 MECHALION CALIFOR	Facility ID	Cycle	Facility Name	Market			Facility ID	Cycle	Fácility Nama	Market
191943 1 MCWIGNTER TECHNICLOGIES INC, NO. 28994 2 RRIJ-HIG GROCERY CD NO. 19044 2		•		NOx				•		************
100844 2 MEDILLION CALIF, PROPERTIES NOX 92328 2 RED LIGH HOTEL, ORANGE COLUTY AIRPORT NOX 1685 1 MILES RECWING COMPANY NOX 800100 REYNOLIDS METALS GOMEPANY NOX 800100 REYNOLIDS METALS GOMEPANY NOX 800110 REYNOLIDS METALS GOMEPANY NOX 800110 REYNOLIDS METALS GOMEPANY NOX 800110 REYNOLIDS METALS GOMEPANY NOX 800111 REYNOLIDS METALS GOMEPANY			***************************************							
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17344 MOBIL OIL CORP_MEST COAST PIPELINES DIV NOX 800150 2 ROCKWELL INTERNATIONAL MOX 14738 2 ROCKWELL INTERNATIONAL SO DIV NOX 14738 2 ROCKWELL INTERNATIONAL ROCKETDYNE DIV. NOX 14738 2 ROCKWELL INTERNATIONAL, ROCKETDYNE DIV. NOX 14738 2 ROCKWELL INT. CORP NOX 14738 2 ROCKWELL INT. COR		_		*		•		-		
MODBIL OIL CORPORATION		- 1		*						*
18274 2 MARIBOO BRANDB INC		1								
12428 2		-								
40483 2 MELCO PROD. INC			•							
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S9113 2 O'BRIEN CALIF COGEN LTD		_								
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73899 2 OREGON STEEL MILLS-FONTANA DIV., INC. NOx 99057 2 SHELL WESTERN EAP, INC NOX		-		*****		•	59547			
1	63626	1					800115	2	SHELL CHEM CORP (EIS USE)	
1		2					99057	2	SHELL WESTERN E&P, INC	NOx
35302 2 OWENS-CORNING FIBERGLAS CORP NOx 85943 2 SIERRA ALUMINUM COMPANY NOx 57035 1 OWL ROCK PRODUCTS NOx 101977 1 SIGNAL HILL PETROLEUM NOx 23542 1 P. W. GILLIBRAND COMPANY, P.W.GILLIBRAND NOwSOX 800204 2 SIMPSON PAPER CO NOX 20584 2 PACIFIC CLAY PRODUCTS NOX 82727 2 SMURFIT NEWSPRINT CORPORATION NOX NOX 43201 1 SNOW SUMMIT SKI CORP. NOX NOX 43201 1 SNOW SUMMIT SKI CORP. NOX	. 7427	1	OWENS-BROCKWAY GLASS CONTAINER				.16639	1	SHULTZ STEEL COMPANY, GORDON W.SHULTZ DBA	NOx
1	79397	1	OWENS-BROCKWAY GLASS CONTAINER INC.				54402	2	SIERRA ALUMINUM COMPANY	NOx
23542 1 P. W. GILLIBRAND COMPANY, P.W.GILLIBRAND NowSox 800244 2 SIMPSON PAPER CO Nox 20584 2 PACIFIC CLAY PRODUCTS NOx	35302	2	OWENS-CORNING FIBERGLAS CORP	NOx			85943	2	SIERRA ALUMINUM COMPANY	NOx
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Facility ID	Cycle	Facility Name	Market
800128	1	SOUTHERN CALIFORNIA GAS COMPANY	NOx
800338	2	SPECIALTY PAPER MILLS INC.	NOx
23449	_	STANDARD CONCRETE PROD.INC. MOBILE SAND	NOx
881	ī	STAR-KIST FOODS INC.(CAN MAKING PLANT)	NOx
1834	-	STEELCASE INC. WESTERN DIV	NOx
83753		STOCKER RESOURCES INC.	NOx
105318	2	SULLY-MILLER	NOx
34055		SULLY-MILLER CONTRACTING CO, BLUE DIAMOND	NOx
56711	1	SUNLAW COGENERATION PARTNERS I	NOx
55714	1	SUNLAW COGENERATION PARTNERS I	NOx
2083	1	SUPERIOR INDUSTRIES INTERNATIONAL	NOx
14472	2	SUPRACOTE INC	NOx
7940	2	SWEETHEART CUP CO INC	NOx
3968	1	TABC INC.	NOx
18931	_	TAMCO	NOx
58427		TANDEM INDUSTRIES	NOx
14944		TECHALLOY COMPANY, INC.	NOx/SOx
800222		TEXACO REFINING & MARKETING INC.	NOx/SOx
800223		TEXACO REFINING & MARKETING INC.	NOWSOX
11435		THE PQ CORP	NOx/SOx
97081	-	THE TERMO COMPANY	NOx
7053	1	THERMO ELECTRON CORP., CAL-DORAN	NOx NOx
800330		THUMS LONG BEACH COMPANY	NOx
800325		TIDELANDS OIL PRODUCTION CO TIDELANDS OIL PRODUCTION COMPANY ETAL	NOX
66117 68118	_	TIDELANDS OIL PRODUCTION COMPANY ETAL	NOx .
68122		TIDELANDS OIL PRODUCTION COMPANY ETAL.	NOx
43436		TIMCO	NOx
B00213	-	TIMES MIRROR CO	NOx
55758	_	TISSURAMA INDUSTRIES INC.	NOx
800192	2	TRANS WORLD AIRLINES INC	NOx
65865		TRANSAMERICAN PLASTICS CORP	NOx
10057	_	TREASURE CRAFT	NOx
11674	_	TRI-ALLOY INC.	NOx
800218	i	TRW INC.	NOx
800210	-	TRW INC.	NOx
800263	_	U.S. GOVT, DEPT OF NAVY	NOx/SOx
800028	_	ULTRAMAR INC.	NOx/SOx
7418		UNION CARBIDE CORP., LINDE DIVISION	NOx
42630	-	UNION CARBIDE INDUSTRIAL GASES	NOx
800144	-	UNION OIL CO OF CAL	NOx/SOx
1838	2	UNION OIL CO OF CALIFORNIA	NOx
98949		UNION OIL CO OF CALIFORNIA	NOx
87571	1	UNION OIL CO.OF CALIFORNIA, UNOCAL DBA	NOK
800319	1	UNION OIL COMPANY	NOWSOR
12395	2	UNION OIL OF CAL, OIL & GAS DIV; LINCOLN	NOk
60342		UNITED STATES CAN CO	NOx
1073	_	UNITED STATES TILE COMPANY	NOx
46500	ż	UNOCAL OIL CO OF CAL, OIL & GAS DIV	NOx
800149	2	US BORAX & CHEM CORP	NOx

Facility ID	Cycle	Facility Name	Market
800153		US GOVT, NAVY DEPT LE SHIPYARD	NOx
6281	2	US GOVT, MARINE CORPS AIR STATION, EL TORO	NOx/SOx
800150	1	US GOVT., AF DEPT, MARCH AFB	NOx
800154		US GOVT., MARINE CORPS AIR STATION	NOx
12189		US GYPSUM CO	NOx/SOx
18695	1	US GYPSUM COMPANY	NOx
73022	2	USAIR INC	NOx
61588		VANGUARD ENERGY SYS	NOx
54723	-	VANGUARD ENERGY SYSTEMS	NOx
14502	_	VERNON CITY, LIGHT & POWER DEPT	NOx
14495	2	VISTA METALS CORPORATION	NOx
93346	1	WAYMIRE DRUM CO.,INC.	NOx
50096	1	WEST COAST RENDERING COMPANY	NOx
42775	1	WEST NEWPORT OIL COMPANY	NOx/SQx
40102	2	WESTERN DYE HOUSE INC	NOx
15173	1	WESTERN DYEING & FINISHING CORP.	NOx
17956	1	WESTERN METAL DECORATING COMPANY	NOx
45953	1 -	WESTERN WHEELS CORPORATION	NOx
1882	2	WEYERHAEUSER PAPER CO	NOx
51620) 1	WHEELABRATOR NORWALK ENERGY COMPANY	NOx

APPENDIX B

FACILITY INCLUSIONS AND EXCLUSIONS

As discussed in Chapter 1, certain facilities have been included or excluded from the RECLAIM universe since the program was adopted on October 15, 1993. The facility inclusions and exclusions are listed below.

Facility Inclusions:

ID	Cycle	Name	Market	Reston
19583	2	B.P. Chemicals	NOx	Opt-in at facility request
104018	2	CBPO of America	NOx	New facility over 4 ton included at facility request
600184	2	Golden West	NOx/SOx	
101039	2	Granite Construction	NOx	New Facility over 4 ten included at facility reques
50813	2	O'Brien Cogen	NOx	Inspector/Engineer determined to be over 4 ton
89249	2	Old Country Millwork	NOx	Inspector/Engineer determined to be over 4 ton
93073	1.	Saba Petroleum Inc.	NOx	Inspector/Engineer determined to be over 4 ton
55239	2	Santa Monica Bay Hotel	NOx	Inspector/Engineer determined to be over 4 ton
15872	. 2	SCE	NOx	Opt-In at facility request
58547	2	Sharyn Steam	NOx	Inspector/Engineer determined to be over 4 ton
800114	2	Shell Oil Co.	NOx/80x	
18235	2	Shell Western E&P	NOx	Opt-in at facility request
99057		Shell Western E&P	NOx	OCS - authority granted to AQMD
97081	1	The Terma Co.	NOx	inspector/Engineer determined to be over 4 ton
98949	ż	UNOCAL	NOx	OCS - authority granted to AQMD
93346	_	Waymire Drum Co.,inc.	NOx	inspector/Engineer determined to be over 4 ton

Facility Exclusions:

1D	Cycle	Name	Market	Reason
6603	1	Alpase Inc	NOx	out of business before RECLAIM
35102	2	American Golf Corp.	NOx	landfill gas control-exempt municipality
15506	2	Ameron Concrete Pipe Group	NOx	Installation of APC equipment before RECLAIM
63903	2	Anahelm Hillon & Towers	NOx	Installation of APC equipment before RECLAIM
59765	2	ARATEX Services Inc.	NOx	EFB data error less than 4 ton/yr
11998	. 2	B.F. Goodrich	NOx	EFB data error less than 4 ton/yr
79844	2	Breilburn Energy Corp.	NOx	electrification
24323	2	Burbank City	NOx	exempt municipality
49594	2	C.L. Pharris Sand & Gravel	NOx	exclusively various location equipment

ID	_	e Name Inc	Market	Reason
12577	2	Central Plants	NOx	out of business before RECLAIM
22271	2	Chevron USA	NOx	out of business before RECLAIM
67677	1	Community Linen Rental Services	NOx	out of business before RECLAIM
34149	1	Crosby & Overton Inc	NOx	exclusively various location equipment
57790	2	Cyclean Inc.	SOx	installation of APC equipment before RECLAIM
7612	2	Dan Copp Crushing Corp.	NOx	exclusively various location equipment
800041	1	Dow Chemical	NOx	Installation of APC equipment before RECLAIM
41794	2	First Interstate Bank	NOx	EFB date error less than 4 ton/yr
70957	2	Foundation Pile Inc	NOx	exclusively various location equipment
5766	2	GAF Building Materials Corp.	NOx	EFB data error less than 4 ton/yr
24957	1	Glandale City	NOx	exempt municipality
1615	1	Great Western Foam	NOx	EFB data error tess than 4 ton/yr
		Products Co		
75893	2	Hanjin Inti Corp	NOx	EFB data error less than 4 ton/yr
800174	2	Herley-Kelly Co	NOx	EFB date error less than 4 ton/yr
12183	2	Hill's Pet Nutrition, Inc.	NOx	EFB data error less than 4 ton/yr
17018	2	Hughes Missile Systems Co	NOx	installation of APC equipment before RECLAIM
25882	2	Irish Construction	NOx	exclusively various location equipment
47116	1	Koch Carbon Inc	NOx	exclusively various location equipment
49916	2	Lockheed Corporation, Inc.	NOx	EFB data error less than 4 ton/vr
15794	2 .	Nissin Foods (USA.) Inc.	NOx	installation of APC equipment before RECLAIM
800151	2	Norion AFB	NOwsox	out of business before RECLAIM
23382 862	2	O.H. Kruse Grain & Milling	NOx	installation of APC equipment before RECLAIM
_	. 2	Owens Coming Fibergless Corp.	NOx	consulidation of facility ID with 35302
71725	2	Owl Crane and Rigging Co	NOx	exclusively various location equipment
50300	2	Parallel Products	NOx	installation of APC equipment before RECLAIM
55371	2	Parsons Main Inc.	NOx	operated by LA county prisons-exempt municipality
800166	2	Pasadena Cily	NOx	exempt municipality
24242	1	Plikington Aerospace	NOx	EFB data error less than 4 ton/yr
3724	1	Polyclad Laminates	NOx	Installation of APC equipment before RECLAIM
3824	2	Ralphs Grocery Company	NOx	installation of APC equipment before RECLAIM
9441	2	Rezex Corp, Geltmen Ind DBA	NOx	EFB data error less than 4 lon/yr
22318	2	RHS Carpet Mill Inc	NOx	out of business before RECLAIM
55380	2	Santee Dairles Inc.	NOx	Installation of APC equipment before RECLAIM
59147	1	SLS & N Inc, DBA Peck Rd Grav	NOx	exclusively various location equipment
68161	1	So Cal Pump and Well Service Inc	NOx	exclusively various location equipment
80325	2	Solid Treatment Systems, Inc.	NOx	equipment permanently removed
7814	1	Star Milling Co	NOx	EFB data error less than 4 ton/yr
51827	2	Stone Container Corp.	NOx	Installation of APC equipment before RECLAIM
58841	2	Stone Container Corp.	NOx	Installation of APC equipment before RECLAIM
4786	1	Texaco Exploration and Production	NOx	equipment permanently removed
9410		Texaco Exploration and Production	NOx	equipment permanently removed

Annual RECLA	AIM Program	Audit Report
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January 1996

Annual RECLAIM Program Audit Report

January 1996

Cycle Name Market Reason 63249 The Vons Company NOx Installation of APC equipment before RECLAIM 800143 Union Chemical Co NOx/SOx consolidation of facility ID with 800144 28381 Upland City NOx exclusively various location equipment 12082 2 W.L. Chapman Co NOx EFB data error less than 4 ton/yr

APPENDIX C

RECLAIM FACILITIES CEASING OPERATION

AQMD staff is aware of eleven RECLAIM facilities that have permanently ceased all operations and gone out of business since the RECLAIM program was adopted on October 15, 1993. These facilities are listed below. AQMD staff attempted to obtain the reason for each closure, but was not able to contact the facility operators in one case. The reasons for shutdown cited below are based on AQMD staff's best available information.

Facility ID

18984

Facility Name

Anchor Glass Container Corp.

City and County

Huntington Park, Los Angeles County

SIC

3221

Pollutant(s)

NOx and SOx

NOX and SC

1994 Allocation

NOx: 595,268 lb., plus 35,880 lb. from ERC conversions

SOx: 195,092 lb., plus 56,420 lb. from ERC conversions

Reason for Shutdown: The facility shut down for economic reasons. Operation of the plant was no longer profitable due to declining demand for glass containers and competition.

Facility ID

5181

Facility Name

Blue Diamond Materials

City and County

Orange, Orange County

SIC Pollutant(s) 2951 NOx

1994 Allocation

11,626 lb.

Reason for Shutdown: This plant was shut down for economic reasons. This plant was less efficient than another nearby plant operated by the same company, and the quarry supplying this plant was almost mined out. Additionally, there was an opportunity to develop the land for another use.

Facility ID

8439

Facility Name

Exxon Co., USA

City and County

Long Beach, Los Angeles County

SIC

1389 NOx

Pollutant(s) 1994 Allocation

42,398 lb.

Reason for Shutdown: The facility closed for economic reasons. This facility is an oil production facility. The oil reserve at this location was depleted beyond an economical level to continue production.

Facility ID

22603

Facility Name

Exxon, Castaic Junction Oil Field

City and County

Saugus, Los Angeles County

SIC Pollutant(s)

1389 NOx

1994 Allocation

55.358 lb.

Reason for Shutdown: : The facility closed for economic reasons. This facility is an oil production facility. The oil reserve at this location was depleted beyond an economical level to continue production.

Facility ID

11961

Facility Name

Ketema Inc., Aluminum Extraction Division

City and County

Los Angeles, Los Angeles County

SIC Pollutant(s) 3341 NOx

1994 Allocation

15.036 lb.

Reason for Shutdown: Staff was unable to contact company representatives. Reason for shutdown is unknown,

Facility ID

800078

Facility Name

Lever Bros.

City and County

Los Angeles, Los Angeles County

SIC Pollutant(s) 284 i NOx

1994 Allocation

123,244 lb.

Reason for Shutdown: The facility closed for economic reasons. This plant produced soap. Operation costs and outside competition made it not profitable to operate the plant. Facility ID

6012

Facility Name

McDonnell Douglas Helicopter Co.

City and County

Culver City, Los Angeles County

SIC Pollutant(s) 1994 Allocation 3721 NOx

26,070 lb.

Reason for Shutdown: The company consolidated operations with a plant in Arizona.

Facility ID

73899

Facility Name

Oregon Steel Mills

City and County

Fontana, Riverside County

SIC Pollutant(s) 3312 NOx

449,758 lb. 1994 Allocation

Reason for Shutdown: The facility closed for economic reasons. According to a company press release, the high operating costs of the plant combined with depressed pricing in the international large diamter pipe market and the lack of domestic pipeline activity led to the closure decision. The production will be taken over by a newly built plant in Oregon.

Facility ID

79397

Facility Name

Owens-Brockway

City and County

Pomons, Los Angeles County

SIC

Pollutant(s)

NOx/SOx

1994 Allocation

NOx: 394,836 lb.

SOx: 116,560 lb.

Reason for Shutdown: According to a facility press-release, tha plant was closed because it was no longer profitable to operate the plant due to declining business and high state processing fees for recycled beverage containers.

Facility ID

101578

Facility Name

Signal Hill Petroleum

City and County

Signal Hill, Los Angeles County

SIC Pollutant(s)

9999 NOx

1994 Allocation

421,738 lb.

Reason for Shutdown: The facility is an oil field which closed due to economic reasons.

089

Facility ID

15173

Facility Name

Western Dyeing & Finishing

City and County

Rancho Dominguez, Los Angeles County

January 1996

SIC

2260

Pollutant(s)
1994 Allocation

NOx 22,617 lb.

Reason for Shutdown: The facility operator attributed the plant closure to economic reasons (50%) and the cost of complying with RECLAIM (50%).

APPENDIX D

RULE INTERPRETATION AND IMPLEMENTATION GUIDANCE DOCUMENTS

AQMD staff has produced certain Rule Interpretation and Implementation Guidance
Documents to clarify program requirements in response to specific concerns expressed by
RECLAIM participants. These documents are available from the AQMD RECLAIM
Administration Team and include:

Rule Interpretations:

Exclusive Use of Timers	October 27, 1994
Missing Data - Large Sources	October 27, 1994
Non-Operated Equipment	January 5, 1995
Conversion of ERCs to RTCs	March 30, 1995
Alternative Monitoring and Reporting Systems	May 9, 1995
Reformulated Gasoline (RFG) Projects and RECLAIM Allocations	September 12, 1995

Implementation Guidance Documents:

Equipment Reconfiguration	October 3, 1995
Natural Gas Flow Correction to Standard Conditions	October 3, 1995
Physical Identification of Monitoring and Reporting Equipment	October 3, 1995
Early Use of CEMS	October 10, 1995
Elapse Time Meters and Internal Combustion Engines	October 10, 1995
Provisional CEMS Approval	January 3, 1995

APPENDIX E

REPORT TO THE GOVERNING BOARD ON COMPLIANCE OF RECLAIM WITH FEDERAL NSR REQUIREMENTS



South Coast AIR QUALITY MANAGEMENT DISTRICT

21865 E. Copley Drive, Diamond Bar, CA 91765-4182 (909):396-2000

May 12, 1995

South Coast Air Quality Management District Board

Report to the Governing Board on Compliance of RECLAIM with Federal New Source Review Requirements

The federal New Source Review (NSR) program, Title 42 U.S.C. Section 7511a(e), requires major stationary sources in extreme nonattainment areas to mitigate their emissions increases by providing emissions offsets at a 1.5 to 1 ratio when the offsets are obtained from external sources, or a 1.3 to 1 ratio when the offsets are generated internally at the facility. South Coast Air Quality Management District (AQMD) Rule 2005 - New Source Review for RECLAIM establishes pre-construction review requirements for construction of new RECLAIM facilities and for modifications to existing RECLAIM facilities in order to ensure continued progress towards attainment of National Ambient Air Quality Standards without restricting economic growth. Subdivision (j) of Rule 2005 requires the Executive Officer to annually report to the Governing Board on the effectiveness of RECLAIM NSR in meeting federal NSR requirements for the preceding year.

This report summarizes AQMD's success in meeting the federal NSR requirements for 1994. In order to provide RECLAIM facilities with maximum flexibility, as well as to simplify the RECLAIM Trading Credit (RTC) transaction system, Rule 2005 establishes an NSR offset ratio of 1 to 1 for RECLAIM pollutants. AQMD intends to comply with federal NSR offset requirements by demonstrating programmatic equivalency in that the total year end reported mass emissions from RECLAIM facilities are well below the facilities' combined emissions allocations at the start of the compliance year. All RECLAIM facilities are subject to a mass cap based on actual mass emissions and all facility emission reductions are calculated from that actual mass emissions baseline. Therefore, all reductions in the RECLAIM mass cap

Rule 2005(j) currently specifies that the Executive Officer provide this report to the Governing Board in May of each year. However, staff intends to propose an amendment which will reschedule it as part of RECLAIM's annual audit as required by Rule 2015(b)(1). The first annual audit will be presented to the Governing Board January 1996.

May 12, 1995

qualify as real, enforceable and quantifiable offsets under traditional federal NSR. Moreover, RECLAIM is a closed system in which total mass emissions are limited in order to be consistent with the reasonable further progress requirements in Section 182(b)(1) and (c)(2) of the federal Clean Air Act (42 U.S.C. Section 7511a(b)(1) and (c)(2)]. This approach is consistent with an EPA statement on RECLAIM that "it can approve a program that does not require individual sources to secure offsets in the ratios mandated by Sec. 182(e) of the federal Clean Air Act [42 U.S.C. Section 7511a(e)] so long as the South Coast [AQMD] ensures that an equivalent total of creditable emission reductions are secured from other reduction strategies." (Letter from William G. Rosenberg, Ass't. Administrator for Air and Radiation, Feb. 28,

Staff has determined that, in 1994, the unemitted, expired, and retired RTCs exceeded the increases in Oxides of Nitrogen (NOx) and Oxides of Sulfur (SOx) emissions from new or modified sources by the ratios of 155 to 1 and 56 to 1, respectively. Tables I and II show permitting and NSR activity related to RECLAIM NOx and SOx sources in 1994.

During 1994, four tons of NOx RTCs from external sources were provided to offset emissions increases due to operation of a new RECLAIM facility. In addition, 62 tons of NOx RTCs and 37 tons of SOx RTCs from RECLAIM facilities' Allocations were held to offset internal increases in emissions due to modifications at 60 existing **RECLAIM** facilities.

Table I: RECLAIM Permitting Activity Summary

Total Applications Approved for RECLAIM Equipment	116	30
Emissions Increases from New Facilities (tons/year)	4	Ö
Cycle 1 (tons/year)	0	0
Cycle 2 (tons/year)	4	Ö
Emissions Increases from Modification to Existing RECLAIM Facilities (tons/year)	62	37
Cycle 1 (tons/year)	36	37
Cycle 2 (tons/year)	26	0
	CONTRACTOR OF CO	AT THE RESERVE OF THE PARTY OF

Total reported NOx and SOx emissions for 1994 included emissions increases from the operation of new and modified facilities, which represented 66 percent and 73 percent of total 1994 NOx and SOx Allocations, respectively. A total of 10,183 tons of unemitted, expired, and retired NOx RTCs was 155 times greater than the corresponding NOx emissions increases in 1994. Similarly, the total 2,047 tons of unused SOx RTCs was 56 times greater than the emissions increases. In other words, total creditable emissions decreases were much greater than total NSR emissions increases in 1994. Therefore, the offset ratios of 155 to 1 (NOx) and 56 to 1 (SOx)

demonstrate that the RECLAIM program exceeds the offset ratio requirements of federal NSR.

Table II: RECLAIM NSR Equivalence Analysis (in tons per year)

Table II. RECLAIM NOR Equivalence Analysis (in tons	s ber Acur)	
CONTRACTOR OF A	NON	- \$0 ₇ , 1
1994 Cycle 1 Allocations	20,757	4,983
1994 Cycle 2 Allocations (prorated for two quarters)	9,066	2,560
Total 1994 Allocations	29,825	71543
1994 Cycle 1 Reported Emissions	13,398	3,589
1994 Cycle 2 Reported Emissions (two quarters)	6,242	1,907
Total 1994 Reported Emissions	List by	7,0%
1994 DHUSELRIGEAU	100000	2017
Emissions Increases from New Facilities	4	0
Emissions Increases from Existing Facilities	62	37
(Foldsamissions increase)		
Decreases due to Modifications	211	2
Riogrammatic Omicialism	1.65(6)1) (6) (1) (6)

Cycle 2 reported emissions are subject to revision.

This analysis indicates that an adequate supply of RTCs was available to offset NOx and SOx emissions increases at RECLAIM facilities during 1994. Further, RECLAIM programmatically provided offsets for all NOx and SOx emissions increases at offset ratios of 155 to 1 and 56 to 1, respectively. Therefore, RECLAIM successfully complied with federal NSR requirements in 1994.

THEREFORE. IT IS RECOMMENDED THAT YOUR BOARD

-- Receive and file this report.

Respectfully

James M. Lents, Ph.D. Executive Officer

PL:CM:ME

^{2 1994} Unused RTCs = Total 1994 Allocation - Total 1994 Reported Emissions

³ Programmatic Offset Ratio = 1 + (1994 Unused RTCs/Total Increase) to 1

APPENDIX F

JOB IMPACTS ATTRIBUTED TO RECLAIM

Job impacts, including both job gains and job losses, attributed by RECLAIM facilities to the RECLAIM program are summarized below. Data is not available pertaining to job gains attributed to RECLAIM by Cycle 1 facilities.

This information was compiled from APEP reports and contacts with facility operators. The APEP reports for Cycle 2 facilities requested the facility operators to include assessments of job increases and decreases which occurred during the compliance year and of the extent to which any increase or decrease in the number of jobs is attributable to the RECLAIM program. Each of the four Cycle 2 facilities which indicated job loss due to RECLAIM were contacted by AQMD staff in order to obtain more detailed information regarding the facilities' particular circumstances.

The Cycle 1 APEP reports included overall job loss and gain information, but did not request facilities to assess RECLAIM's impact on job changes. Therefore AQMD staff contacted each facility which reported a decrease in the number of jobs in order to determine if the decrease was attributable to the RECLAIM program.

In addition, in some cases AQMD engineers and inspectors familiar with the facilities reporting RECLAIM-related job loss also contributed their experience and expertise to the assessment of RECLAIM's impact on the job market, as summarized for each facility below.

Facility ID

013179

Facility Name

Crescent Cranes Inc

City and County

Torrance, Los Angeles County

SIC

5084

Pollutant(s) Cycle

NOx

Job Gain

Job Loss

4 (4 attributed to RECLAIM)

The facility operator indicated that the job loss resulted from a

Comments:

combination of automation and reduced production in order to comply with the facility's allocation, yet attributed all four lost

iobs to RECLAIM.

Facility ID

016639

Facility Name

Shultz Steel Co

City and County SIC

South Gate, Los Angeles County

Pollutant(s)

3462 NOx

Cycle

Job Gain

19 (4 attributed to RECLAIM)

Job Loss Comments:

Job loss is due to the movement of aerospace industry out of

California. Facility operator believes that the departure of aerospace industry is partially due to environmental regulation, of

which RECLAIM is a part.

Facility ID

057722

Facility Name City and County

Ball Glass Container Corporation El Monte, Los Angeles County

SIC Pollutant(s) 3221 NOx

Cycle Job Gala

Job Loss

7 (7 attributed to RECLAIM)

Comments:

Facility attributes all seven employees lost to RECLAIM, specifically due to the cost of installing an oxygenated fuel-fired furnace. However, it is highly likely that the facility also would have installed such a furnace under command and control

regulations--Control Measure #90P-C-7 from the 1991 Air Quality Management Plan targeted this equipment category for NOx

reductions of approximately 95%.

City and County Gardena, Los Angeles County

SIC 3479
Pollutant(s) NOx
Cycle 1
Job Gain 0

Job Loss 55 (22 attributed to RECLAIM)

Comments: According to the operator, the facility shut down a process line

which was not bringing any growth to the company. The shutdown helps to keep the facility's emissions below their allocation. Additional job loss was attributed to the economy.

January 1996

Facility ID 800099

Facility Name Norris Industries

City and County Vernon, Los Angeles County

SIC 35
Pollutant(s) NOx
Cycle 1

Job Gain 3
Job Loss 52 (10 attributed to RECLAIM)

Comments: The facility attributes the job losses to a combination of the

economy, loss of contracts, and stringent air, water, and hazardous

waste regulations

Facility ID 007411

Facility Name Davis Wire Corp

City and County Irwindale, Los Angeles County

SIC 3315 Pollutant(s) NOx

Cycle 2

Job Gain 1 attributed to RECLAIM

Job Loss

Comments: One job gained due to RECLAIM. No additional details available.

Facility ID 015504

Facility Name Schlosser Forge Co

City and County Rancho Cucamonga, San Bernardino County

SIC 3462
Pollutant(s) NOx
Cycle 2
Job Gain 0

Job Loss 1 (1 attributed to RECLAIM)

Comments: One non-manufacturing job lost. No additional details available.

Facility ID 023589

Facility Name International Extrusion Corp
City and County Alhambra, Los Angeles California

SIC 3354
Pollutant(s) NOx
Cycle 2
Job Galn 0

Jeb Loss 8 (8 attributed to RECLAIM)

Comments: The facility operator assumed that the cost of RTCs would be

prohibitively high, and therefore in January 1994, the facility elected to reduce natural gas consumption by reducing production. This resulted in the layoff of 8 employees. Also, the layoffs

reduced operating costs, which helped the facility's

competitiveness.

Facility ID 102969

Facility Name Queen Carpet Corp

City and County Santa Fe Springs, Los Angeles County

SIC 2272 Pollutant(s) NOx

Cycle 2

Job Gain113 (1 attributed to RECLAIM)Job Loss20 (0 attributed to RECLAIM)

Comments: The facility experienced a net gain of niney-three jobs, of which

one is attributed to RECLAIM. No additional details available.

Pacility ID

Facility Name

800047 Fletcher Oil & Refining Co Carson, Los Angeles County

City and County SIC

2911 SOx, NOx

Pollutant(s) Cycle

Job Gain Job Loss Comments:

8 (8 attributed to RECLAIM)

This facility closed before RECLAIM was adopted. The facility attributed the job losses to a shutdown intended to avoid the cost

of CEMS installation of the facility's single major source.

However, an AQMD engineer familiar with the facility observed that the major source is already equipped with a CEMS which could be brought into compliance with RECLAIM requirements without being too costly. Additionally, the economy has adversely

impacted the facility.

Facility ID **Facility Name**

800208 Paper Pak Products

City and County

La Verne, Los Angeles County

SIC

2823 NOx Poliutant(s) 2 Cycle O

Job Gain Job Loss

25 (6 attributed to RECLAIM)

Comments:

The facility attributes six lost jobs to the approximately \$250,000 spent on CEMS. However, the facility representative pointed out that they did not factor in the "gains" associated with RECLAIM, as compared with the requirements to which the facility would be subject in the absence of RECLAIM.

APPENDIX G

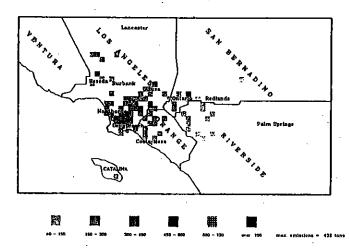
QUARTERLY EMISSION MAPS

As discussed in Chapter 8, this appendix provides the quarterly maps of NOx and SOx emissions from RECLAIM facilities for each quarter from January 1994 through June

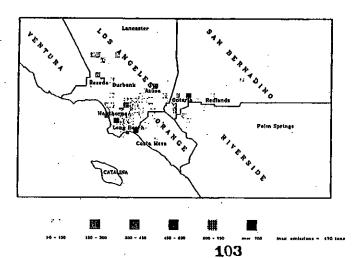
It should be noted that, in accordance with the compliance schedule of RECLAIM, the first two quarters of 1994 include Cycle I facility emissions only. The subsequent maps include both Cycle 1 and Cycle 2 facilities.

These maps are preliminary and subject to revision pending additional quality assurance review.

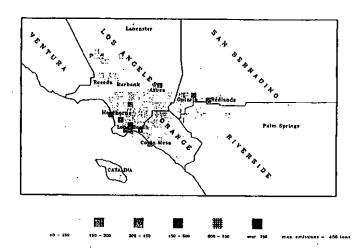
RECLAIM Facilities
Certified NOx Emissions (Tons) From 1/94 To 3/94



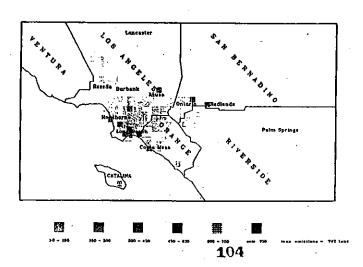
RECLAIM Facilities
Certified NOx Emissions (Tons) From 4/94 To 6/94



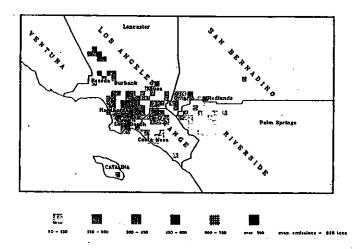
RECLAIM Facilities
Certified NOx Emissions (Tons) From 7/94 To 9/94



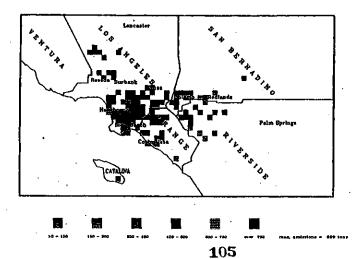
RECLAIM Facilities
Certified NOx Emissions (Tons) From 10/94 To 12/94



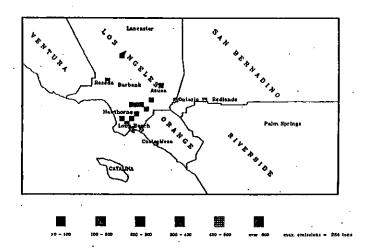
RECLAIM Facilities
Certified NOx Emissions (Tons) From 1/95 To 3/95



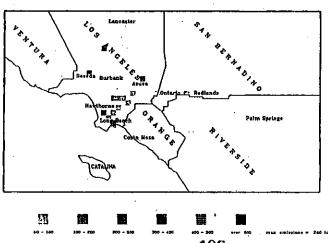
RECLAIM Facilities
Certified NOx Emissions (Tons) From 4/95 To 6/95



RECLAIM Facilities
Certified SOx Emissions (Tons) From 1/94 To 3/94

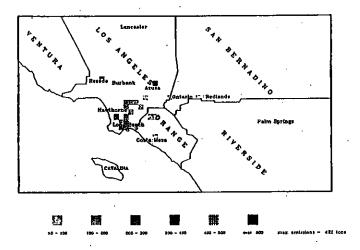


RECLAIM Facilities
Certified SOx Emissions (Tons) From 4/94 To 6/94

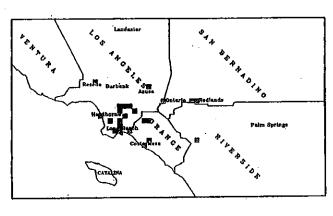


106

RECLAIM Facilities Certified SOx Emissions (Tons) From 7/94 To 9/94



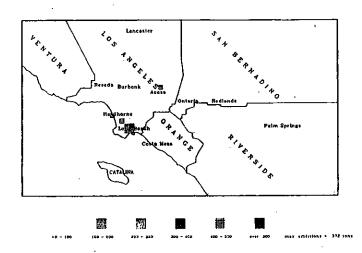
RECLAIM Facilities Certified SOx Emissions (Tons) From 10/94 To 12/94



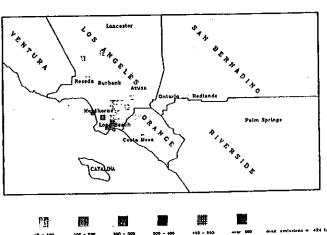
107

RECLAIM Facilities

Certified SOx Emissions (Tons) From 1/95 To 3/95



RECLAIM Facilities Certified SOx Emissions (Tons) From 4/95 To 6/95



108

INITIAL ALLOCATIONS

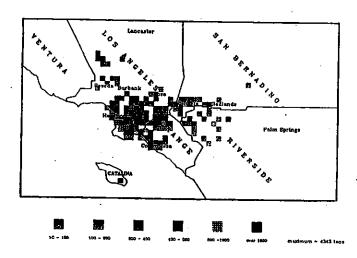
1994 NOx RTC

APPENDIX H

ANNUAL EMISSION AND ALLOCATION MAPS

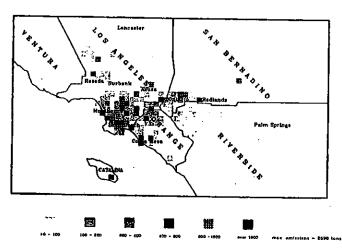
As discussed in Chapter 8, this appendix contains maps of the geographic distributions of initial allocations and certified emissions from RECLAIM facilities for the first compliance year for both NOx and SOx. The certified emissions maps combine emissions data for both Cycles 1 and 2.

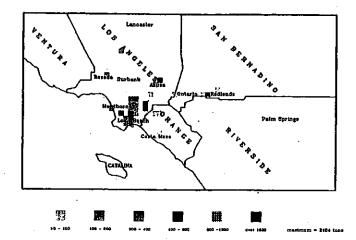
These maps show that in each geographic sector, reported emissions from RECLAIM facilities were in the same or a lower range than the allocated emissions for the first compliance year. The maps do not appear to show any distinct geographic shift in emissions. The AQMD will continue to assess the geographic pattern of emissions as additional data becomes available.



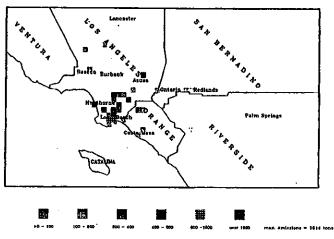
RECLAIM Facilities

Certified NOx Emissions -- First Compliance Year





RECLAIM Facilities
Certified SOx Emissions -- First Compliance Year



APPENDIX I

RECLAIM RTC TRADING SUMMARY REPORT



REPORTING PERIOD: From:

January 1, 1994 To: November 3, 1995

439 RTC Trading Transactions Recorded

381 NOx Transactions

58 SOx Transactions

CONTENTS:

☑ Summary of Trading Volumes

☑ RTC Trading Activities

Average Daily NOx RTC Trading Prices (Cycle 1 & Cycle 2)

☑ NOx RTC Unit Prices (Cycle 1 & Cycle 2)

Marian Average Daily SOx RTC Trading Prices (Cycle 1 & Cycle 2)

☑ SOx RTC Unit Prices (Cycle 1 & Cycle 2)

If you have any questions, please call Pang Mueller at x2433.

SOMMARY OF TRADING VOLUME

SOX(LB):	\$1\$'\$\$0'LZ	ET4,274,82	146'145
AOX(TB):	126,321,545	P87,E87,P11	194'455'11
OUANTITY OF RTCS TRADED WITH VALUE = \$0.00			
SOX(LB):	002,E97,2	004,587,2	008,6
NOX(LB):	678,60E,24	990'068'01	618,614,4
OUANTITY OF RTCS TRADED WITH VALUE > \$0.00			
SOX(LB):	Þ19'LE8'6Z	£78,285,6 <u>2</u>	144,182
NOX(FB):	424,1E3,171	028,679,221	PLS'LS6'SI
OUANTITY OF RTCS TRADED			
:xos	85	75	9
::XON	186	988	42
NUMBER OF TRADING REGISTRATIONS:	664	886	21
	\$6/£/11 OT \$6/1/1	26/E/11 OT 26/1/1	1/1/94 TO 12/31/94
LEVDE LEESIOD	JATOT	\$66I	PRIOR YEAR (S)

RTC TR	ADING A	CTIVITIES FOR	RECLAIM
	лишча		

RTC TRADING ACTIVITIES FOR F	RECLAIM	From	ı: 1/1/94		Fo: 11/3/9:	5			<u>November</u>	30, 199
										\$588,81033
DATE BUYER STREET	SELLER				SEAS	000011001100 20010				i in the second
11-02-95 SO CAL EDISON CO	SO CAL EDISON CO (EIS USE)	NOx	494,137		2 1996		0.00	837205753		100 100 100 100 100 100 100 100 100 100
11-02-95 SO CAL EDISON CO	SO CAL EDISON CO (EIS USE)	NOx	4,094		2 1996		****	3	1	
11-02-95 SO CAL EDISON CO (EIS USE)	SO CAL EDISON CO (EIS USE)	NOx	300		1 1995		-		1 0	
11-02-95 SO CAL EDISON CO	SO CAL EDISON CO (EIS USE)	NOx	42,683		1 1995				 	
11-02-95 SO CAL EDISON CO	SO CAL EDISON CO (EIS & NSR USE ONLY		907,261		2 1996			 	- 1	
11-02-95 SO CAL EDISON CO (EIS USE)	SO CAL EDISON CO (EIS USE)	NOx	67,142		1 1995			-	1	<u>A</u>
11-02-95 SO CAL EDISON CO	SO CAL EDISON CO (EIS USE)	NOx	407,501		1 1995				1 2	<u>B</u>
11-02-95 SO CAL EDISON; ALAMITOS GEN STA(EIS US		NOx	166,723	 	1 1995				}	В
11-02-95 SO CAL EDISON CO	SO CAL EDISON CO (EIS USE)	NOx	282,389		1 1995	Coasta	1			
11-02-95 SO CAL EDISON CO.	SO CAL EDISON CO (EIS USE)	NOx	235,842		1 1995				4	В
11-02-95 SO CAL EDISON CO (EIS USE)	PACIFIC STOCK EXCHANGE	NOx	6,197,615		1995-1998			- 1	. 4	B
11-02-95 SO CAL EDISON CO (EIS & NSR USE ONLY)	SO CAL EDISON CO (EIS USE)	NOx	332,029	_		Coasts		3		В
11-01-95 SWEETHEART CUP CO INC	PACIFIC STOCK EXCHANGE	NOX	18,480		1995	Coasta			<u> </u>	В
11-01-95 THE SERVICE SOURCE	PACIFIC STOCK EXCHANGE	NOX	142,500						<u> </u>	
11-01-95 PRAXAIR INC	PACIFIC STOCK EXCHANGE	NOX			•	Coasta		3	0	<u>B</u>
10-31-95 SOUTH COAST SPECIAL FACILITY ID	MINNESOTA MINING & MFG CO (EIS USE)	NOX	243,625		1995	Coasta		1	9	B
10-23-95 PACIFIC STOCK EXCHANGE	POWERINE OIL CO (EIS USE)	NOX	117,824		1996-2003					A
10-23-95 SULLY-MILLER CONTRACTING CO	BORAL RESOURCES INC, IRVINE PLANT	_	663,830		1998-1999	Coasta		3	4	A
10-20-95 SO CAL GAS CO	SO CAL GAS CO	NOx NOx	109,683		1996-2011	Coasta		7	6	A
10-20-95 GARY BIRD	SUNLAW COGENERATION PARTNERS I	_	50,000		1995	Coasta		3	3	A
10-13-95 PACIFIC STOCK EXCHANGE		NOx	22		1995	Coasta	1	. 6	2	A
10-12-95 PACIFIC STOCK EXCHANGE	POWERINE OIL CO (EIS USE) POWERINE OIL CO (EIS USE)	SOx	3,344,450		1995-2010	Goasta	0.00	3	4	A
10-12-95 PACIFIC STOCK EXCHANGE	CALRESOURCES LLC	NOx	2,129,500		1995-1998	Coasta		. 3	4	A
10-10-95 PACIFIC STOCK EXCHANGE	TABC INC	NOx	6,700,000		1996-2010	Coasta		3	3	A
10-10-95 PACIFIC STOCK EXCHANGE		NOx	15,000]	1995	Coasta	0.00	3	3	A
	SO CAL GAS CO (EIS USE)	NOx	300,000	1	1995-2000	Coasta	0.00	3	3	A
10-10-95 PACIFIC STOCK EXCHANGE 10-10-95 PACIFIC STOCK EXCHANGE	SO CAL GAS CO UNION OIL CO OF CAL (NSR USE ONLY)	NOx	300,000	1	1995-2000	Coasta	0.00	3	3	A
10-10-95 PACIFIC STOCK EXCHANGE	CANTOR FITZGERALD BROKERAGE, L.P.	NOx	700,000		1997-1998	Coasta	0.00	3	1	A
10-10-95 PACIFIC STOCK EXCHANGE	SO CAL EDISON CO (EIS USE)	SOx	139,297		1997-2011	Coasta		3	0	В
10-09-95 PACIFIC STOCK EXCHANGE	SO CAL EDISON; ALAMITOS GEN STA(EIS	NOX	3,000,000	<u></u>	1995	Coasta	0.00	3	9	B
10-09-95 PACIFIC STOCK EXCHANGE	WEST NEWPORT OIL CO		3,200,000	 !	1996-1998	Coasta	0.00	3	. 1	A
10-09-95 PACIFIC STOCK EXCHANGE	WEST NEWPORT OIL CO	SOX	11,751,876	!	1995-2010	Coastal	0.00	3	3	A
10-09-95 PACIFIC STOCK EXCHANGE	UNION OIL CO OF CAL (NSR USE ONLY)	NOX	1,552,030		1995-2010	Coasta	0.00	3	3_	A
10-09-95 PACIFIC STOCK EXCHANGE	FLETCHER OIL & REF CO (EIS USE)	NOX	600,000	2	1996-1998	Coasta	0.00	3	1	A
10-09-95 PACIFIC STOCK EXCHANGE	CHERRY TEXTRON	NOX	285,000	2	1996-1997	Coasta	0.00	3	4	A
09-28-95 SO CAL EDISON CO	SO CAL EDISON CO	NOX	4,200	—¦	1995	Coastal	0.00	3		A
09-22-95 HITCO, (EIS USE)	HITCO, (EIS USE)	NOX	840		1995	Inland	0.00	!		A
09-15-95 OMNIBUS ENVIRONMENTAL SERVICES, INC.	MEDALLION CALLEGENIA PROPERTIES C	NOX	7,976		2000-2004	Constal	0.00	!		В
09-15-95 SOUTH COAST SPECIAL FACILITY ID	CHEMOIL REF CORP (NSR USE ONLY)	NOx	10,138		1999	Coastal		51	3	A
09-08-95 AVERY DENNISON	CANTOR FITZGERALD BROKERAGE, L.P.	NOX	10,000		1995-1996	Coastal	0.00	5	3	A
09-08-95 BOB HILOVSKY & ASSOCIATES	BORAL RESOURCES INC, FONTANA PLAN		18,415		1995	Coastal	1,638.94			В
09-07-95 LA CITY, DWP SCATTERGOOD GENERATING		NOx NOx	6,000		1995	Inland	0.00	5	3	A
09-07-95 CANTOR FITZGERALD BROKERAGE, L.P.	GMAD	NOX	5,393,317	1/2	1999-2011	Coastal	3,878,370.82	1	<u>o</u>	В
09-07-95 SO CAL EDISON CO (EIS USE)	CANTOR FITZGERALD BROKERAGE, L.P.	NOx	19,339		2001-2003	Coastal	0.00	3	o <u>i</u>	· C
09-07-95 SHOLTZ & ASSOCIATES, LLC	MINNESOTA MINING & MFG CO (EIS USE)	NOx	2,400,477		1995-1997	Coastal	0.00	3	0	В
09-07-95 SULLY-MILLER CONTRACTING CO	CHRISTINE GRANDSTAFF		28,000	- 2	1995	Coastal/Inland	0.00	6	3	A
4. 20 DODGE PRODUCTION CONTINUOUS	Annual Harring Carlo Charles	· NOx	1,500		1995	Coastal	1.50	1		C

١v	17	19	00.0	Coastal	S66I	7	アイぐ クァイ・ソ	KON	(man are) as men	
v	*	9	00.0	Coastal	\$661	- [-	1,265,829	KOS	RHELL OIL CO (EIS USE)	
V		-	00.0 1	Sparte Constant	\$661		31,16	KON		
V		- [:	00.0	Constal	\$661		000'9		тив РО СОКР	
V	ε .	╬	₽0.I	Coasta	\$661	-		KON	HUGHES AEROSPACE & ELECTRONICS C	
·	- 	<u> </u>	00.0	Alego D	866I		846	KOS	DOMTAR GYPSUM INC	
æ	- <u> -</u>	- 	12.24	ansao3	666I	<u> </u>	1,224	ХОИ	KAL KAN FOODS INC	
Œ	ō	- 	₽6,8₽E	Constal	5661		000,874	KON	THE SEKAICE SOURCE	
A	Þ	*	00.0	Coasta	\$661	-	718,212	KOS	THE SERVICE SOURCE	
8	0	1	00.0	Elaso O	5661	- [000'0€	KON .	ETELCHER OIL & REP CO (EIS USE)	
Ø	Ó	9	00.0	Coasta	\$661	- [000,000,1	KON	PACIFIC STOCK EXCHANGE	
V	E	ε	00.0	basini	\$661	-	000'sT	KON	THE SEKAICE SOURCE	30-95 SHOLTZ & ASSOCIATES, LLC
V	Þ	1	00.0	Coasta	\$661	7	000'11	KON	VISTA METALS CORPORATION	
٧	ε	-	00.0	CoastaViniand	6661	 	12,400	MON	SIGNAL HILL PETROLEUM INC	
Y	ε	*	00.0	brisini	\$661	-	32,000	KON	HOLLIDAY ROCK CO INC PAPER PAK PROD. INC (EIS USE)	
٧	ε	ε	00.0	Alasso O	\$661		696'18	KON	PAPER PAK PROD TAG (LIE)	30-95 CHRISTINE GRANDSTAFF
A	ε	E	00.0	Coasta	\$661		22,000	KON	EDB COORN BY THE PROPERTY OF T	30-93 CVALOK ELIZGERATD BROKERAGE, L.P.
<u>5 </u>	o -	ī	09.0	brisini	\$661	[000 00	XON	CHRISTINE ORANDSTAFF	-30-32 ENERGY SERVICES CO
<u> </u>	þ	t	00.0	Coasta	\$661	-	III, EOE	YON	FLETCHER OIL & REF CO (EIS USE)	-30-92 FIGHT METALS INC
8	0		02,501	Coastal	\$66I	₩	041,4	KON	ELECHER OIL & BER CO (ELE LIGE) ENERGY SERVICES CO	31-92 CHRISTINE ORANDSTAFF
8	0	1	275.00	Consta	\$66I	[000,11	KON	EMBEGA SEBAICES CO	-31-32 LBEESS LOKGE CO
7	E	ε	00.001	Совян	\$66I	€—	20,000	KON	CALRESOURCES LIC 104014	-31-32 CVKTLON LOKGE MOKKZ
A .	0	ī	00'0	puejul	S66I	7.	8,300	YON	EVALUATION TO THE STATE OF THE	-31-32 ENERGY SERVICES CO
4	0	I	60.0	Coasta	C661	F -	799	*ON		-31-95 CANADA MALTING CO LTD, GREAT WESTER -31-95 PROGRESSIVE CUSTOM WHEELS
, .	ε		00.0	Coasta	5661		44,124	YON	TRANS WORLD AIRLINES INC	
7	E	Þ	00.0	bnsini	\$661	F	236,289		CALIFORNIA PORTLAND CEMENT CO (NS	-31-95 CHRISTINE GRANDSTAFF
<i>;</i>	ε		00.0	Consta	661	7	10,800		SULLY-MILLER CONTRACTING CO,BLUE	-31-95 CHRISTINE ORANDSTAFF
7	9		00.0	Coasta	\$66I	7.	008'01	YON	BORAL RESOURCES INC. IRVINE PLANT	-31-95 CHERLINE ORYNDRIVE
7	ε	b	00.0		S661		SES,STE,1		CALIFORNIA PORTLAND CEMENT CO (NS	-31-92 CHIRIZINE GRANDSLAFF
1	ε		00.0		\$661	-	002'9	XON	BLUE DIAMOND MATERIALS, DIV SULLY	-31-92 CHRISLINE GRANDSTAFF
)	0		00.01		661		000'01	XOX	CHRISTINE GRANDSTAFF	1-31-95 CHRISTINE ORANDSTAFF
,	ε		00.0		\$661		6,520	KON	LUNDAY-THAGARD OIL CO (EIS USE)	19195 US GYPSUM CO
1	0	+			661		31,520	YON		31-95 ENERGY SERVICES CO
)	0				\$661			KON	ENERGY SERVICES CO	1-31-95 SHULTZ STEEL CO
ī	0	-1	0L.1		\$66I		000,71	XON	20 CVT EDIZON CO	1-31-95 CANTOR FITZGERALD BROKERAGE, L.P.
[0		00.0		7661-3661				LYCILIC SLOCK EXCHYNGE	9-31-95 ARTESIA KNITS INC
,	ε				266I		000'009	NO	CANTOR FITZGERALD BROKERAGE, L.P.	31-95 ARCO PRODUCTS CO
, -	ε		00.0		5661 5661		000'01	NON	LA CITY, DEPT OF AIRPORT (RIS USE ONI	8-31-92 OMNIBUS ENVIRONMENTAL SERVICES, INC.
,	<u>ε</u>	·	00.0		5661 5661		50£,61 20,302	YON	UNION OIL CO OF CALIFORNIA, UNOCAL	8-31-95 SIERRA-PACIFIC ENVIRONMENTAL, INC.
	ξ				\$66I		619'69	XON XON	DNION OIF CO OF CALIFORNIA	8-31-92 SIERRA-PACIFIC ENVIRONMENTAL, INC.
SE(0.22)	33(0) 183(13/15/10)	100 ST	111111	43.67	1001	5315X5	(33)	MON .	DNOCAL OIL CO OF CAL, OIL & GAS DIV	8-31-93 SIEKKA-PACIFIC ENVIRONMENTAL, INC.
a an oa			377.038	DELIVATIONS.			400.000		2110	HBAOR LLV
Name of Association	Committee Committee Committee									
30, 199	По четьет				\$6/8/11 :0	L	+6/I/I :	From	MIALUA	IC LEVDING VCLINILIES ROB B
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PACIFIC STOCK EXCHANGE

FOWERINE OIL CO (EIS USE)

CHRISTINE ORANDSTAFF

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CHRISTINE GRANDSTAFF

08-39-95 INVLIONAL HEALTHY AIR LICEUSE EXCHAN CANTOR FITZOERALD BROKERAGE, L.P.

08-39-95 ONOCAL REFINERY & MARKETING CORP

08-29-95 ARCO PRODUCTS CO

08-39-95 COSTOM ALLOY SALES INC

08-39-95 GUARDIAN INDUSTRIES CORP.

08-29-95 LIGHT METALS INC

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1995-2010

RECURSION ACTIVITIES PRESENT ALMESTRO CORP. INTERPRESENT ALM	ع ه	1	6.00				1			
TRAIDING ACTIVITIES FOR RECLAIM Prof. 1794 Prof. 1794 Prof. 1795	. A	-	00.00	Inland	1995		10,000	Š	PACIFIC CLAY PRODUCTS	08-18-95 PACIFIC CLAY PRODUCTS INC
TRAIDING ACTIVITIES FOR RECLAIM Traiding Traiding	 	<u>. -</u>	100	Condo	1000	3	47 00	Ş	US GYPSUM CO	
TRADING ACTIVITIES FOR RECLAIM Prof. 1/194 Tro. 1/195 Tro. 1/194 Tradition of the control of th		<u>- .</u>	40 00	Coasta	1995	2	4,000	XOX	THE SERVICE SOURCE	
TRADING ACTIVITIES FOR RECLAIM Special 1/194 Tex 1/195 Tex	<u>.</u>	_	0.00	Inland	1995	2	5,300	NOX	GAF BUILDING MATERIALS CORPORATI	
TRADING ACTIVITIES FOR RECLAIN Property 1/194 Tex 10/195 Tex 1	<u>د</u>	8	0.00	hiend	1995	2	93,14	SO _X	GAF BUILDING MATERIAL'S CORPORATI	
TRADING ACTIVITIES FOR RECLAIN Profit 1/194 Tev 1/195 PROPORTIC CONFERENCE DELA 1950	23 A	8	0.00	Inland	1995	2	147,30	NO	GAY BUILDING MATERIALS CORPORATI	
TRADING ACTIVITIES FOR RECLAIM Press 1994 1995 1	В	-	0.18	Coasta	1995	22	3,62	Š	CAN I UK FII ZUEKALU BRUKEKAGE, L.P.	-
TRADITING ACTITYTIES FOR RECLAIMS SPORT 1/194 Tel 1/195	7		70,000.00	Coasta	1997-2003		140,00	XOX	POWERINE OIL CO (BIS USE)	_
TRADING ACTIVITES FOR RECLAIM 1994 1995 1995 1995 1996 199	0 B	1	1.00	Coasta	1995	2	10	Ņ	THE SERVICE SOURCE	_
TRADING ACTIVITIES FOR RECILAIM Pront 1/1/94 To: 1/1/95	3 A	-	0.00	Coasta	1995	, c	3,10	N C	THE SEBVICE SOUTHOR	
TRADITING ACTIVITIES FOR RECTAIN Pront 11/94 To: 11/395 UANNETIE VALUE VALUE	0 B	_	100.00	Coasta	1993		4,00		NOTHER DECEMBER AND COMPANY OF THE C	
LANNE TLY OBEL	В	u	0.00	Coasta	1,661-0661		004,77		SO CAL EDISON CO (FIG 1988)	
TRADDING ACTIVITIES FOR RECLAIM Profit 1/194 Te: 1/195	ω Α	-	80.00	DUMILL	2004		694 90	Ş	PACIFIC STOCK EXCHANGE	_
ILLANNET TE V ONAL 11/19/95	A		0.00	Talanto	1006	3	800	Ž	PACIFIC CLAY PRODUCTS	
TRADING ACTIVITIES FOR RECLAIM			000	Inland	1995		22.00	Š	BHP COATED STEEL CORP	
From: 17/94 Text 17/95 Total Text Text 17/95 Total Text Text 17/95 Total Text Text	2 2		0.00	Inland	1995	_	4,83	KON	INDUSTRIAL ASPHALT	
IMANGAL REPINERY & MARKETING CORE SOLCAL EDISON CO (28 USE) MOX 11,524 1993 Contail 10,000 1	<u> </u>		0.00	Consta	1995	6	2,29	NOX	INDUSTRIAL ASPHALT	
TRADING ACTIVITIES FOR RECLAIM		1	0.00	Coasta	2 1995	3	22,16	KON	INDUSTRIAL ASPHALT	
From: 17194 To: 11795 To	3) A	~_	0.00	Inland	2 1995	0	3,00	χοχ	SIERRA ALUMINUM COMPANY	
TRADDING ACTIVITIES FOR RECLAIM SOCIAL DISCONTINUE 11/95	2	_	4,804.99	Coasta	1995-1996	0	34,99	Š	LACITY, DWP VALLEY GENERATING ST	_
TRADING ACTIVITIES FOR RECLAIM Front 1/1/95 To: 11/2/95	3)		0.00	Coasta	2 1995	2	2,87	Ī	INDUSTRIAL ASPHALT, J/V/P, HUNTMIX II	-
TRADING ACTIVITIES FOR RECLAIM From: 1/1/94 To: 1/3/95 To: 1/	9		9.00	Coasta	2 1995	0	90	Г	THE SERVICE SOURCE	
PRADNING ACTIVITIES FOR RECLAIM Prom: 1/1/94 To: 11/2/95	_	<u>ω</u>	0.00	Coasta	2 1995	7	64,58	χοχ	HARBOR COGENERATION CO	
IRADING ACTIVITIES FOR RECLAIM From: 1/1/94 To: 1/1/95	3	٠	0.00	Inland	2 1995	2	9,16	XO.	INTL EXTRUSION CORP	
ITAADING ACTIVITIES FOR RECLAIM Common Composition	9	s	1.08	Coasta	2 1995	š	179,95	Ş		
CALININETIE VOREL SOLCAL EDISON US (EIS USE) NO. 11/3/95 Coath 1/1/94 Coath 1	3		0.00	Coastal	2 1995	4	2,17	Γ	+-	
TRADING ACTIVITIES FOR RECLAIM Prom: 1/1/94 To: 11/3/95	٥	-	31.70	Coasta	2 1995	5	3,17	T	+	_
From: 1/194 To: 11/3/95	3	_	0.00	Inland	2 1995	ŏ	2,00	NOX	4-	_
TRADING ACTIVITIES FOR RECLAIM Statistics 1/1/94 To: 1/1/95 1/1/9	33	4	0.00	Coastal	2 1995	14	68,04	İ	BANK OF AMER/CORPORATE REAL EST/	-
TRADING ACTIVITIES FOR RECLAIM From: 1/1/94 To: 11/3/95 To: 11/3	<u>u</u>	4	0.00	Coasta	2 1995	52	15,6	┪	DOMTAR GYPSUM INC	_
TRADING ACTIVITIES FOR RECLAIM 1/94 10: 11/3/95 11/3/95	<u></u>	-	0.00	Coasta	2 1995)()	7,10	Ş	R J NOBLE COMPANY	_
Franding ACTIVITIES FOR RECLAIM	٩	46	94.60	CoastaVinland	1995-		44,71	NO.	PACIFIC STOCK EXCHANGE	_
PANISTINE GRANDSTAFF PACIFIC STOCK EXCHANGE PACIFIC STOCK EXCHANG	e .	اء	6.60	Consta			22,00	xO _x	PACIFIC STOCK EXCHANGE	_
PRADING ACTIVITIES FOR RECLAIM From: 1/1/94 To: 11/3/95	2		0.00	Coastal	2 1995	ĕ	24,7	NOX	DOMTAR GYPSUM INC	_
PRADING ACTIVITIES FOR RECLAIM Prom: 1/1/94 To: 11/3/95 To: 11/3			000	Inland	1995	ğ	یږ	-	SIERRA ALUMINUM COMPANY	
TRADING ACTIVITIES FOR RECLAIM		<u>121</u>	0.00	Coasta	2 1995	79	499,3		LA CITY, DWP VALLEY GENERATING ST	CANTOR FITZGERALD BROKERAGE,
IRADING ACTIVITIES FOR RECLAIM From: 1/1/94 To: 11/3/95 To: 11/3	2 .		0.00	Coasta	2 1995	36	131,8	s0x	PACIFIC STOCK EXCHANGE	
PRANISTINE GRANDSTAFF BREACAMON OIL COMPANY-ALBERT LE NON 10,400 10,950	0		0.00	Coasta	2 1995	88	6,6	NOX	PACIFIC STOCK EXCHANGE	
PRANDING ACTIVITIES FOR RECLAIM	اس	•	0.00	Coastal	2 1995	64	22,0	П	BREA CANON OIL COMPANY-ALBERT L	
From: 1/1/94 To: 11/3/95	<u></u>	•	0.00	Coasta	2 1995	90	. 10,4		EDGINGTON OIL COMPANY	
TRADING ACTIVITIES FOR RECLAIM	ب ا	4	0,00	Coasta	2 1995	90	10,9	KON	EDGINGTON OIL COMPANY	-
RADING ACTIVITIES FOR RECLAIM	0	-	81.0	Coastal	2 1995	00	3,5	Н	CANTOR FITZGERALD BROKERAGE, L.F.	08-28-95 GEORGIA-PACIFIC CORP
PRADING ACTIVITIES FOR RECLAIM From: 1/1/94 To: 11/3/95 BUNGACTIVITIES FOR RECLAIM 9/4 04/4 11/3/95 <td< td=""><td>ادر</td><td>_</td><td>0.00</td><td>Coasta</td><td>2 1995</td><td>24</td><td>11,5</td><td>Н</td><td>CENTRAL PLANTS INC</td><td>08-28-95 SO CAL GAS CO (EIS USE)</td></td<>	ادر	_	0.00	Coasta	2 1995	24	11,5	Н	CENTRAL PLANTS INC	08-28-95 SO CAL GAS CO (EIS USE)
PRADING ACTIVITIES FOR RECLAIM From: 1/1/94 To: 11/3/95 BUNGACTIVITIES FOR RECLAIM 1/1/94 To: 11/3/95 BUNGAL REFINERY & MARKETING CORF SO CALEDISON CO (EIS USE) NOx 2,000 1 1995 Coasta 30.00 6 UNION OIL CO OF CAL (NSR USE ONLY) UNION OIL CO OF CAL (NSR USE ONLY) NOx 453,375 2 1995 Coasta 0.00 1 UNION OIL CO OF CAL (NSR USE ONLY) COASTAL DBROKERAGE, L.P. NOX 3,200,000 2 1996-1999 Coastal 0.00 1	-	-	0.00	Coasta	2 1995	30	4,8	NO	CENTRAL PLANTS INC	
From: 1/1/94 To: 11/3/95 100 100 100 100 100 100 100 1	0		0.00	Consta	2 1996-1999	00			BROKERAGE,	
From: 1/1/94 To: 11/3/95 100	مر	-	0.00	Coastal	2 1995	75	455,3	NO.	UNION OIL CO OF CAL (NSR USE ONLY)	
From: 1/1/94 To: 11/3/95	0	6	30.00	Coasta	1 1993	00	2,0	Š	SO CAL EDISON CO (EIS USE)	
From: 1/1/94 To: 11/3/95									3,511,38	
Engage 1/1/04 The 11/2/08	ember 30, 199	NOW.			162 P			W THE	NECTORINA NAMED IN CONTRACTOR OF THE PROPERTY	ANA O AMBRANG INCIDENTIAL STATES FOR I
	1	:						1	DECT. A IM	RTC TRADING ACTIVITIES FOR F

To: 11/3/95 1 1993-1998 Coasta	33 A	<u></u>	0.00	Iniand	1990-1990		2000			
TRANDING ACTIVITIES FOR RECLAIM Transition Transiti	0 39	w	62.70	Coasta	1992		100 UE		OLS ENERGY-CHINO C/O ENERGY INITIA	CANTOR FITZGERALD BROKERAGE, L.P.
TRADUNG ACTIVITIES FOR RECLAM	В 0	3	150.00	Coasta	2993		200,000	3 3	PACIFIC STOCK EXCHANGE	THE SERVICE SOURCE
TRADIUG ACTIVITIES FOR RECLAIM	Q B	<u> </u>	60.00	Coasta	2553		1 400,000	2	PACIFIC STOCK EXCHANGE	THE SERVICE SOURCE
TRADUNG ACTIVITIES FOR RECLAIM Promitified by Total 11/3/95 Promities and the committee of the commi	0	-	88.50	Coasta	1004	T.	200 000	SOS	PACIFIC STOCK EXCHANGE	UNOCAL REFINERY & MARKETING CORP
TOTALINE COUNTY TOTALIS 0	us.	16,778.40	Coasta	1002-0002	Τ	10,00		PACIFIC STOCK EXCHANGE	WESTERN WHEEL CORP	
TRADING ACTIVITIES FOR RECIAIN	c	w	0.00	Coasta	1996-2011		283,78		PACIFIC STOCK EXCHANGE	PACIFIC ECONOMIC RESEARCH CO.
TRADING ACTIVITIES FOR RECIAIN	C	ພ	0.00	Coasta	1996-2011		207.007	3	GMAD	CANTOR FITZGERALD BROKERAGE L.P.
TRANDING ACTIVITIES FOR RECLAIM Pront	0	_	ľ	Consta	1999-2000	\ \ -	777 100		GWAD	CANTOR FITZGERALD BROKERAGE L.P.
TRADING ACTIVITIES FOR RECIAIN PROME	A	_	l	Coasta	CKAT		11 000	3	PACIFIC STOCK EXCHANGE	SO CAL GAS CO (EIS USE)
TRADING ACTIVITIES FOR RECIAIM Pront	I A	_		Coasta	1777		16 000	Š	SO CAL EDISON CO (EIS USE)	SO CAL EDISON; ALAMITOS GEN STA(EIS US
TRADING ACTIVITIES FOR RECLAIM Front 1/1/94 Te 1/1/95	l A	-		Coasta	CKKI	3 P	43 87	S S	SO CAL EDISON CO (EIS & NSR USE ONLY	SO CAL EDISON CO
TRADING ACTIVITIES FOR RECLAIM Pront 11/393 Transport Tran	- -	-		Coasta	Cool		15.7 E.1	Т	SO CAL EDISON CO (EIS & NSR USE ONLY	SO CAL EDISON CO
TRADING ACTIVITIES FOR RECLAIM Front 1/1/94 Te 1/1/195 Te 1/195 Te		-	0.00	Coasta	1007	1	48 40	Ī	SO CAL EDISON CO (EIS & NSR USE ONLY	SO CAL EDISON; ALAMITOS GEN STA(EIS US
TRADING ACTIVITIES FOR RECLAIM	0 8	Lie Lie	0.00	Cousta	1000	1	108 E	7	SO CAL EDISON CO	SO CAL EDISON; ALAMITOS GEN STA(EIS US
TRADING ACTIVITIES FOR RECLAIM Front 1/194 To: 11/3/95	A	-		intend	1000		3.570.59	7	SO CAL EDISON; ALAMITOS GEN STAIEIS	
From: 1/1/94 To: 11/395 Townshift Col. (20 (183 US) CANTOR FITZOERALD BROKERAGE, L.P. NO. 13/148 1995-1997 Counts Col. (20 (183 US) Counts Co	0	_	3,650	Consta	1107-5671	١	5 00	ž	SIMPSON PAPER CO (EIS ONLY)	
TRADING ACTIVITIES FOR RECILAIM Front 1/1/94 To: 11/3/95	3	<u></u>		Constan	1100,3001		6 820 70	Ž.	CANTOR FITZGERALD BROKERAGE, L.P.	
SPONERINE OIL CO (281 USE)				Condi	1000	<u> </u>	869.00	Ž Q	UNION OIL CO OF CAL (NSR USE ONLY)	
FROWERING OLL COLES USE)	0			Coasta	Т.		3.20	Ž Ž	PACIFIC STOCK EXCHANGE	
FRADING ACTIVITIES FOR RECLAIM	0	-		Consta	95	Ţ	14.80	ğ	PACIFIC STOCK EXCHANGE	08-02-95 LORBER INDUSTRIES OF CALIFORNIA
FRADING ACTIVITIES FOR RECLAIN	0 B	-		Coasta	1005	<u></u>	4.50	y Ş	PACIFIC STOCK EXCHANGE	08-02-95 KAL KAN FOODS INC
FRADING ACTIVITIES FOR RECLAIM From: 1/1/94 To: 11/2/95 To: 11/2	0			Canada	1001	ē J		NO	PACIFIC STOCK EXCHANGE	
From: 1/1/94 To: 1/1/95	\ \ \ \ \ \ \ \			Inland	1995	70		ğ	PACIFIC STOCK EXCHANGE	
FRADING ACTIVITIES FOR RECLAIM From:	<u> </u>			Consta	1996-1999	ă S		ğ	UNION OIL CO OF CAL (NSR USE ONLY)	_
TRADING ACTIVITIES FOR RECLAIM From: 1/1/94 To: 11/3/95	e	-		Coasta	0105.3001	313	٦	ğ	POWERINE OIL CO (EIS USE)	_
TRADING ACTIVITIES FOR RECIAIM From: 1/194 To: 11/3/95	3 A	L S		Consta	100	313		ğ	INDUSTRIAL ASPHALT	
PROPERTY 9			Tunant	1004	8	33	┪	NATIONAL GYPSUM CO		
From: 1/1/94 To: 11/3/95	3			To long	1005	8		4	CANTOR FITZGERALD BROKERAGE, L.P.	
TRADING ACTIVITIES FOR RECLAIM	A	T		Charles	1995	<u>2</u>	7	┪	DOUGLAS AIRCRAFT CO (EIS USE)	
From: 1/1/94 To: 11/3/95	<u></u>	, ,		Coards	1 1993-2010	3		ğ	_	
From: 1/194 Te: 1/1/95 Te	3 A				1999	8		ğ	-	
PROVERING OIL CO (EIS USE)	2 A				1994	8		┪	QUEEN CARPET CORP, TUFTEX CARPET	_
TRADING ACTIVITIES FOR RECLAIM	A	a		\prod	1004	3 3		1	LA CITY, DWP HAYNES GENERATING ST	
TRADING ACTIVITIES FOR RECLAIM From: 1/1/94 To: 11/3/95	3 A	-			CKKI	3 8		5 5	SIMPSON PAPER CO (EIS ONLY)	
POWERINE OIL CO (EIS USE)	3 A	8			1000	3 8	Ī	3 3	ROHRING	
TRADING ACTIVITIES FOR RECLAIM	0			T	1000	3 5		十	FRUIT GROWERS SUPPLY CO	
To: 11/3/95	0				2		T	Ť	CANTOR FITZGERALD BROKERAGE I.P.	
Transitive Grandstaff Powerine oil Coley Products Pacific Clay Products No.	A	u u		T	0107.5551		١	╅	CANTOR FITZGERALD BROKERAGE L.P	
CANTOR FITZGERALD BROKERAGE, L.P. NO. 1,371,1880 1,995-1998	3 A			T	1900.2010			ğ	POWERINE OIL CO (EIS USE)	CANTOR FITZGERALD BROKERAGE,
CANTOR FITZGERALD BROKERAGE, L.P. NO. 1,371,186 1,995	3 A				1004	3 3		ğ	ATKINSON BRICK CO	
To: 11/3/95	32 A			T	1004	š		3	PACIFIC CLAY PRODUCTS	
To: 11/3/95	33 A				1000	₹		 	PACIFIC CLAY PRODUCTS	08-16-95 CES ENERGY ALBERHILL LTD
To: 11/3/95	3 A		Ţ		1000	S		┪	PACIFIC CLAY PRODUCTS	08-16-95 CES ENERGY CORONA, LTD.
POWERINE OIL CO (EIS USE) BP CHEMICALS (HITCO) INC. FIBERS & M. NO. 17 077 7 1007 7011 Coasta 6.00 1	<u></u>				2 1997 2011			Ť	BP CHEMICALS (HITCO) INC. FIBERS & N	08-16-95 HITCO, (EIS USE)
From: 1/1/94 To: 11/3/95 NOV OIL TITLE SEALER SALER SALE SALER SALE SALE SALE SALE SALE SALE SALE SALE	0				7 1907-2011	3 8		7	BP CHEMICALS (HITCO) INC. FIBERS & N	
From: 1/1/94 To: 11/3/95			11.1	(0)	1004 1000		300	***	CANTOR FITZGERALD BROKERAGE, L.	
From: 1/1/94 To: 11/3/95				200						DATE
From: 1/1/04 To: 11/2/05	November 30, 199		mannan mannan mada sa							
								5	RECLAIM	KIC TRADING ACTIVITIES FOR I

_										
.		0.00	Coasta	1995-2011	2	263,161	KON.	DOUGLAS AIRCRAFT CO, TORR FAC (EIS	95 DOUGLAS AIRCRAFT CO (EIS USE)	06-01-95
<u> </u>		0.00	Inland	1995-2011	2	3,772,584	KON	OREGON STEEL MILLS-FONTANA DIV., I	06-06-95 CALIFORNIA STEEL INDUSTRIES INC	Š
3 A	4	0.00	Coasta	1994	. 1	21,963	KON	NORRIS IND (BIS USB)	95 ENERGY SERVICES CO	06-06-93
	2	7,376.40	Coasta	1995-1997	2	18,441	NO.	ANCHOR GLASS CONTAINER CORP		06-08-95
<u> </u>	-	61,047.00	Coasta	1996-2011	2	57,200	XOX ON	THE PQ CORP	06-09-95 US GYPSUM CO	ģ
A	_	0.00	Coasta	1996-2011	2	347,707	XON	DOMTAR GYPSUM INC	-95 DOMTAR GYPSUM INC	06-28-95
5	7	0.00	Inland	1995-2011	2	516,657	Ņ Ņ	INTL PERMALITE INC		06-29-95
7	-	0.00	Coasta	1995	<u></u>	20,000	NO.	NORTHRUP GRUMMAN CORP (EIS USE)		15 V
3		0.00	Coasta	1995		38,000	Z	CENTRAL FLANISING		\$ 22-93 22-93
3		0.00	Coasta	1993	2	22,000	Š	CENTRAL FLANTS INC		Š
A	3	0.00	Coasta	1107-0667		22,224		CENTRAL DI ANTO INC		06-20-05
A	3 (4	0.00	Consum	1106-3001	3 ,	171 054		DOMTAR GYPSUM INC		06-29-95
† 	3 0	200	Canada	1004	٠,	11 000	ĝ	PACIFIC COAST HI DO PRODS INC PARCO		37-07-93
	<u> 1</u>	0.00	Coasta	1995-1997		765,000	ğ	SO CAL EDISON: ALAMITOS GEN STA(EIS		07-07-95
	2 5	0.00	Consta	1995	22	400,000	XOX	UNION OIL CO OF CAL (NSR USE ONLY)	-95 PACIFIC STOCK EXCHANGE	07-07-95
	ا در	0.00	Coasta	1995	_	300,000	KOS.	MOBIL OIL CORP (EIS USE)		07-07-95
) A	3	0.00	Inland	1995	2	50,000	KON	LIBBEY GLASS, INC	-95 PACIFIC STOCK EXCHANGE	07-07-95
3	نن	0.00	Coasta	1995	2	54,000	KON	RED LION HOTEL /ORANGE COUNTY AIR	-95 PACIFIC STOCK EXCHANGE	07-07-95
3 	<u></u>	0.00	Coasta	1995-2011	1/2	1,981,341	NOX	CALRESOURCES LLC 104014	-95 PACIFIC STOCK EXCHANGE	07-07-95
3	3	0.00	Coástal	1995-2010	O 	2,000,000	NOX	CALRESOURCES LLC		07-07-95
2 A	ω.	0.00	Coastal	1995	0 2	2,142,000	KON	CHEVRON U.S.A. INC (EIS USE)	_	07-07-95
4	ω.	0.00	Coastal	1995	0 2	578,000	sO ₂	CHEVRON U.S.A. INC (EIS USE)		07-07-95
3	43	0.00	Inland	1995-1996	o I	200,000	NO,	SO CAL GAS CO (EIS USE)		07-07-95
12		3.72	Inland	1995	2	7,447	NO.	INLAND CONTAINER CORP		07-11-95
-	دي	0.00	Coasta	2005-2011	2	280,000	Š	THE PQ CORP		07-12-95
A A	<u></u>	0.00	Coasta	1995	2	70,500	NOX	LOMITA GASOLINB CO INC		07-12-95
<u>ω</u>	LJ)	0.00	Inland	1995	6 2	359,406	NOX	SAN DIEGO GAS & ELECTRIC		07-12-95
Ω Α	<u>u</u>	0.00	Coasta	1995	2	53,500	NO.	TIDELANDS OIL PRODUCTION COMPANY		07-12-95
<u> </u>	<u>(1)</u>	0.00	Coastal	1995	2	192,883	NOX	TIDELANDS OIL PRODUCTION COMPANY		07-12-95
<u>ω</u>	<u>us</u>	0.00	Coasta	1995	22	59,471	NOX	TIDELANDS OIL PRODUCTION COMPANY		07-12-95
(L)		840.00	Coasta	1995	ō ≖	120,000	Ņ	BREA CANYON OIL CO INC		07-12-95
Ψ	w	0.00	Coasta .	1995	2	194,754	ŇÔ	TIDELANDS OIL PRODUCTION CO		07-12-95
4	(L)	0.00	Consta	1995-2010	3 1	133,653	XON	WESTERN DYEING & FINISHING CORP		07-12-95
*	IJ.	0.00	Coasta	1995-1996	7 2	32,207	NOX	CHEMOIL REF CORP (NSR USE ONLY)		07-12-95
12	ų.	0.00	Inland	1995	0 2	281,750	NO.	INLAND CONTAINER CORP		07-18-95
-	3	0.00	Coasta	1995	2	50,000	NOX	UNION OIL CO OF CAL (NSR USE ONLY)		07-18-95
w	3	0.00	Coasta	1995	ō 2	4,000	NOX	ROCKWELL INTERNATIONAL, ISC DIV		07-18-95
2	3	0.00	Coasta	1995-1997	ă	1,118,000	Š	SO CAL EDISON; ALAMITOS GEN STA(EIS		07-18-95
	w	0.00	Coasta	1997-2011	2	124,297	XOS	ANAHEIM FOUNDRY INC		07-18-95
w	ų.	0.00	Coasta	1995	2	36,000	NOX	BREITBURN ENERGY CORP		07-20-95
4	33	0.00	Coasta	1995-2011	2	3,566,29	Ş	ANCHUR GLASS CONTAINER CORP		0/-20-93
A	133	0.00	Coasta	1995-2011	2	6,582,702	NÇ	ANCHOR GLASS CONTAINER CORP		0/-21-93
<u>"</u>	-	0.00	Coasta	1995		123	T	-	25 CANTON EFFECEDAL DISCREDAGE I D	07.01.08
<u>u</u>	•	0.00	Coasta	1993	2	23,015	T	IABCINC		0/-2/-
tus	w	0.00	Coasta	1995	_	300,000	SO _X	WORL OIL COKE (BIS OSE)		0/-23-93
ų.	<u></u>	0,00	Coasia	1995		10,01		moon and an area and and area		
		200		1004		13.05		ROCKWELL INTL CORPIES (188)	RESIDENTIAL PROPERTY OF THE PR	3
		The same of the sa	A STATE OF THE STA							

<u>r</u>		v	9	00.0	Coastal	r661	ı	≯19'6 \$	KON	TOMINOM CO OF AMERICA	No. to talk glasses a con-	
V.		1	9	00.0	Coastal/Inland	₹66I		74,822	KON		05-92 FERTIE & T.KON 05-92 VDA ENA CHIEF CONSULTING & ENGE 2E	.50
V		l ·	b	365.39	Coasta	≯66I	li .	56,539	KON	WHEEL PHRATOR NORWALK ENERGY C	03-95 SIERRA RESEARCH, INC.	
V.	· · · · · ·	€ .	Þ	0.00	braini.	766 I	ī	21,000	YON	IJWCO IAC		_
N A		£	Þ	00.0	Coastal	Þ661	ī	000'06	YON	CALRESOURCES LLC		
[¥		ε	Þ	00.0	brakil	v661	ī	2,901	KON	TRI-ALLOY INC		
V.		E	Þ	54.22	Coasta	⊅66 I	ī	27455	KON	CANNERS STEAM CO INC		
Į.		€	b	00.0	basini	₹66I	1	978'5	KON	PACIFIC FORGE INC		
[=		0	ī	1 2.00	Intrao D	7661	ī	000'Z	KON	ENERGY SERVICES CO		
<u> </u>		0	I	82.2	Intrao.	Þ661	ı	872,2	KON	ENERGY SERVICES CO		_
<u> </u>		0	<u> </u>	1.34	Lateraco	†661	ī	1,340	KON		-02-95 SUPERIOR INDUSTRIES INTERNATIONAL IN	띘
<u> </u>		<u> </u>	I	100.00	[aleacO	Þ66 I	ī	100,000	KON	CHRISTINE GRANDSTAFF	-02-95 SIGNAL HILL PETROLEUM INC	
V		·	*	00.0	InteroD	Þ661 -	ı	20,380	KON	TABCING	-02-95 DANIEL E. MONETTE	
<u>v</u>		<u> </u>	·I	00.741,197.00	Coastal	1994-2010	1	19,148,238	KON	SHELL WESTERN E&P INC	-03-93 CALRESOURCES LLC	_
V)		00.028,8 <i>ET</i> ,E	Intero D	1995-2011	7/1	2,384,370	YON	SHEIT MESLEKN E&P, INC		
A		<u> </u>		00.106,49	Lataco	1995-2011	Z	155,95	KON	SHELL WESTERN EAP INC, (BREAFIELD)		
Į <u>v</u>			-	142.88	Coantal	1994-2010	ī	142,894	*OS	CANNERS STEAM CO INC	-05-92 CVI KERONKCER I TC -05-92 WOBIT OIL COKE (EIR NRE)	
V.			_	00.0	Labsec Coastal	Þ661	ī	320,000	YON	AMERIGAS PROPAUE I.P.	1-02-95 CHRISTINE GRANDSTAFF	
V.			9	0.00	alteco	Þ661		330,000	YON	SONLAW COGENERATION PARTNERS I		
<u> </u>	0	<u> </u>		123,482.56	Coasta	1107-5661		342,395	KON	INTL LIGHT METALS CORP (EIS USE)	9-05-95 COVILLION FOR CLEAN AIR	
<u> </u>		<u> </u>			Riego	4661-8661	-	12,675	KON	DLTRAMAR INC (NAR USE ONLY)	9-10-95 MARKET-BASED SOLUTIONS, INC.	의
A.	<u> </u>				Coastal	Þ661		000'081	KO8	MEST NEWPORT OIL CO	3-21-95 MOBIL OIL CORP (EIS USE)	
8	<u> </u>			00.0	atago O	Þ66I	_	876,23E	NON		3-21-95 MOCLINTOCK, WESTON, BENSHOOF, ROCHE	의
<u>u</u>	<u>p</u>			00.0		766I		06 £'89 L	×OS	MEST MEMPORY OF CO	3-21-32 MCCI'INLOCK MEZLON BENZHOOE BOCHE	9
Ā					Coasta	L661-\$661	i	240'000	YON	SO CAL EDISON; ALAMITOS GEN STA(EIS	3-21-95 MCCI INTOCK WESTON BENSEROOF BOCKER 4-12-95 SHOLTZ & ASSOCIATES, LLC	
<u> </u>					AttaoO	5661	ī	05	XON	MOBIL OIL CORP (EIS USE)	4-12-95 SHOLTZ & ASSOCIATES, LLC	- 1
<u> </u>	<u>z</u>					S66T	i	0\$	×os	MOBIL OIL CORP (EIS USE)	4-12-95 SHOLTZ & ASSOCIATES, LLC	
<u> </u>		<u> </u>			Coastal	L661-5661	Z ,	000'SÞ	KON	TABCING	4-12-95 SHOLTZ & ASSOCIATES, LLC	
A.	<u>z</u>					6661			XON	DAION OIL CO OF CAL (NSR USE ONLY)		
V.	<u>r</u>		9 (0.11	Consta	661				SO CAL EDISON, ALAMITOS GEN STA(EIS	4-12-95 SHOLTZ & ASSOCIATES, LLC	
<u>v</u>	!		ı k			661			XON	дне ресократительного при денественный	4-18-93 DELEK AENLINKINI	
<u>v</u>	€		_		Coasta	661		4,000	KON	R 1 NOBLE COMPANY	4-25-95 US GYPSUM CO	
V V	P				Coasta	661		000'8			15-02-95 MAGUIRE THOMAS PARTNERS, PLAYA VIST 14-25-95 KEYSOR-CENTURY CORP	믜
A			E 0	0.0	Coasta	661	i i	78,E18	YON	NODOWNELL DOUGH CO	15-02-95 SO CAL EDISON; ALAMITOS GEN STA(EIS US	4
<u>v</u> _	[€ 0	0.0	erteso Coasta	661			KON	OO NORTEDIRON CO	15-02-95 SO CAL EDISON: AL AMITOS GEN STACES LIS	4
A	<u> </u>		3	0.0	Coasta	661			KON	OO NOSIGE TVO OS	15-02-95 SO CAL EDISON; ALAMITOS GEN STA(EIS US	2
8	0		T O	0.0		661			KON	SO CAL EDISON CO (EIS USE)	93-03-93 80 CAL EDISON; ALAMITOS GEN STA(EIS US	-
<u>a</u>	0		ī 0	0.0		661			ON	SO CAL EDISON CO (EIS USE)	02-09-92 RO CVT EDIRON CO	_
<u>v</u>	€		1 0	0.0		661			KON	20 CVF EDISON CO (EIS 178E)	02-08-82 BO GVF EDIZON CO	_
E	0		1 0	0.0		661			KON	20 CVT EDIZON CO (EIZ 13E)	02-08-82 80 CVT EDISON CO	
<u>a</u>	0	<u> </u>				661			KON		02-09-95 SO CAL EDISON CO (EIS USE)	겝
E E	0		9 0	8,404		661-8661			ON	SO CALEDISON CO (FIGURE)	02-09-95 20 CYT EDISON CO (EIS & NSE NSE ONLY)	
घ	0		I 0			661-9661			ON	SHOLTZ & ASSOCIATES, LLC	03-16-95 CHRISTOPHER ASSAD	_
<u>v</u>	9]				1995-201				SHOLTZ & ASSOCIATES, LLC	02-16-95 TABC INC	
٧	9	1				100-201			ON	YMEKIGYS ŁKOŁYME I'.L'	02-16-95 SIGNAL HILL PETROLEUM INC	
V	€.		<u> </u>	0.000,8		661 k			ON I	DOSKOCIL SPECIALTY BRANDS COMPAN	02-33-95 DOSKOCII SPECIALTY BRANDS CO	
		(F) 1 (F)			1000		00.00		UN I	US GOVT, NAVY DEPT LB SHIPYARD (EIS	03-55-95 U.S. GOAT, DEPT OF UAVY	1
				13.44	Mark Health			MAINS NO.			THE HAVE	
-		Movemb	is assumed						8(Q) III 8			
3401	UE31	I-morro M			S	[o: 11/3/8		∳6/I/I :u	Froi	MINTO	RTC TRADING ACTIVITIES FOR R	ľ
5											National American American	L

RTC TRADING ACTIVITIES FOR RECLAIM

RTC TRADING ACTIVITIES FOR R	ECLAIM	From	: 1/1/94	To: 11/3/95	,			November 30, 1995
## 15 Page 19		100			erio nervisio			100000000000000000000000000000000000000
DATE	SELLER			irin Medit	(2)			GENERALISM CONE
03-02-95 COALITION FOR CLEAN AIR	SUNLAW COGENERATION PARTNERS I	NOx	160,000	l 1994	Coasta	0.00		2 A
03-02-95 SO CAL EDISON CO	SO CAL EDISON CO	NOx	10,642	1 1994	Coasta	0.00	1	1 A
03-02-95 EXXON CO, USA	EXXON CO USA, CASTAIC JUNCTION OIL	NOx	54,181	1 1994	Coasta	0.00	3	3 A
03-02-95 ARCO CQC KILN	ARCO PRODUCTS CO	NOx	200,000	2 1995	Coasta	200.00	1	2 A
03-02-95 HUGHES AEROSPACE & ELECTRONICS CO	HUGHES AIRCRAFT CO (EIS USE)	NOx	6,235	1 1994	Coasta	0,00	1	4 A
03-02-95 HUGHES AIRCRAFT, EOS	HUGHES AIRCRAFT CO (EIS USE)	NOx	3,424	1 1994	Coasta	0.00	1	4 A
03-02-95 SO CAL EDISON CO (EIS USE)	SO CAL EDISON CO	NOx	2,589	1 1994	Coasta	0.00	1	1 A
03-02-95 SO CAL EDISON CO (EIS USE)	SO CAL EDISON CO	NOx	2,898	1 1994	Inland	0.00	1	1 A
03-02-95 SO CAL EDISON CO (EIS USE)	SO CAL EDISON CO (EIS USE)	NOx	15,872	2 1995	Coasta	0.00		0 B
03-02-95 SO CAL EDISON CO (EIS USE)	SO CAL EDISON CO	NOx	13,588	1 1994	Coasta	0.00		1 A
03-02-95 SO CAL EDISON CO (EIS USE)	SO CAL EDISON CO	NOx	6,447	1 1994	Coasta	0.00	1	1 A
03-01-95 NATIONAL OFFSETS	ULTRAMAR INC (NSR USE ONLY)	SOx	240,000	1 1994	Coasta	0.00	3	3 A
03-01-95 NATIONAL OFFSETS	ULTRAMAR INC (NSR USE ONLY)	NOx	170,000	1 1994	Coasta	0.00	3	3 A
03-01-95 CRESCENT CRANES INC	CHRISTINE GRANDSTAFF	NOx	4,000	1 1994	Coasta	4.00	1	0 C
03-01-95 CHRISTINE GRANDSTAFF	POWERINE OIL CO (EIS USE)	KOS	174,000	1 1994	Coasta	0.00	4	2 A
03-01-95 CHRISTINE GRANDSTAFF	POWERINE OIL CO (EIS USE)	NOx	313,000	1 1994	Coastal	0.00	4	2 A
03-01-95 R. ALLEN URBAN	P. W. GILLIBRAND CO	NOx	33,000	1 1994	Coasta	0.00		3 A
03-01-95 AMERICAN LUNG ASSOCIATION	OWENS-BROCKWAY GLASS CONTAINER	NOx	36,903	1 1994	Inland	0.00		1 A
03-01-95 AMERICAN LUNG ASSOCIATION	OWENS-BROCKWAY OLASS CONTAINER	SOx	14,681	1 1994	Inland	0.00		1 _A
03-01-95 AMERICAN LUNG ASSOCIATION	OWENS-BROCKWAY GLASS CONTAINER	8Ox	70,362	1 1994	Coastal	0.00		
03-01-95 AMERICAN LUNG ASSOCIATION	OWENS-BROCKWAY GLASS CONTAINER	NOx	162,505	1 1994	Coastal	0.00		2 A
03-01-95 JORGENSEN ENVIRONMENTAL, INC.	SNOW SUMMIT INC	NOx	42,000	1 1994	Inland	. 0.00		3 A
02-28-95 FONTANA PAPER MILLS INC	CANTOR FITZGERALD BROKERAGE, L.P.	NOx	6,804	1 1994-1996		1,289.18	_	0 B
02-28-95 SUNLAW COGENERATION PARTNERS I	CANTOR FITZGERALD BROKERAGE, L.P.	NOx	100,000	1 1994	Coastal	0.00		0 B
02-28-95 NATIONAL HEALTHY AIR LICENSE EXCHAN	 	SOx	150,000	1 1994	Coastal	0.00		0 B
02-28-95 ENTRIX, INC.	CANTOR FITZGERALD BROKERAGE, L.P.	NOx	150,383	1 1994	Coasta	0.00		1A
02-28-95 NATIONAL HEALTHY AIR LICENSE EXCHAN	 	NOx	2,670,900	1 1994	Coastai/Inland	0.00		OB
02-28-95 CANTOR FITZGERALD BROKERAGE, L.P.	LA CITY, DWP SCATTERGOOD GENERATI	NOx	239,694	1 1994	Coasta	0.00	3	A
02-28-95 UNION OIL CO OF CAL (NSR USE ONLY) 02-28-95 UNION OIL CO OF CAL (NSR USE ONLY)	CANTOR FITZGERALD BROKERAGE, L.P. CANTOR FITZGERALD BROKERAGE, L.P.	NOx	100,000 60,000	1 1994 1 1994	Coastal	0.00		- <u>0</u> <u>B</u>
02-28-95 THE TIDES FOUNDATION	CANTOR FITZGERALD BROKERAGE, L.F.	XOX XON	2,934,000	1 1994	Coasta	0.00		B
02-28-95 PARAMOUNT PETR CORP (EIS USE)	CANTOR FITZGERALD BROKERAGE, L.P.	NOX	350,000	1 1994	Coastal	14.67		B
02-28-95 PARAMOUNT PETR CORP (EIS USE)	CANTOR FITZGERALD BROKERAGE, L.F.	SOx	18,000	2 1995-1996	Coasta	52,500.00		B
02-28-95 CANTOR FITZGERALD BROKERAGE, L.P.	UNION OIL CO OF CALIFORNIA (SITE #3)	NOx	41,321	1 1993-1996	Coasta Coasta	11,466,00 0.00	_	- B
02-28-95 NATIONAL HEALTHY AIR LICENSE EXCHAN		NOx	1,041,321	1 1994	Coastal/Inland	0.00	- 3	- 3 A
02-28-95 CANTOR FITZGERALD BROKERAGE, L.P.	MOBIL OIL CORP (EIS USE)	NOx	179,066	1 1994	Coastal	0.00	- 4	В
02-28-95 CANTOR FITZGERALD BROKERAGE, L.P.	HIGGINS BRICK CO	NOx	48,947	1 1994	Inland	0.00	3	
	LA CITY, DWP HARBOR GENEATING STA	NOx	64,598	1 1994	Coasta	0.00		- 1 A
	CANTOR FITZGERALD BROKERAGE, L.P.	SOx	40,000	1 1994	Coasta	0.00	3	- 4 4
	CENTRAL PLANTS INC	NOX	60,040	1 1994	Coastal	0.00		0 B
02-28-95 CANTOR FITZGERALD BROKERAGE, L.P.	CENTRAL PLANTS INC	NOx	12,476	1 1994	Coasta	0.00	3	- 3 A
	LA CITY, DWP HAYNES GENERATING ST	NOx	605,386	1 1994	Coasta	0.00	3	7
	UNOCAL REFINERY & MARKETING CORP	NOx	55,000	1 1994	Coastal	0.00	- 1	
	CANTOR FITZGERALD BROKERAGE, L.P.	NOx	6,000	2 1995	Coasta	6.00		0 B
02-28-95 WAYMIRE DRUM CO,INC.,8 EL MONTE FACI		NOx	686	1 1994	Coastal	0.69		0 B
	CANTOR FITZGERALD BROKERAGE, L.P.	SOx	108,660	2 1997-2000	Coastal	103,332.70	- il	0 B

KTC'	<u>FRADING ACTIVITIES FOR R</u>	ECLAIM .	From	: 1/1/94	T	o: 11/3/95				November	30, 199
							ore ke kalen				0/2012/0
DATE	BUYER	SELLER					(6)			21/3×1/31/3×1/4/6	1817
	DEMENNO/KERDOON	CANTOR FITZGERALD BROKERAGE, L.P.	Nox	32,000	2	1995-1997	Coasta	3,216.00	2000000000	0	
	LA CITY, DWP SCATTERGOOD GENERATING		NOx	274,000	2	2000-2003	Coastal	195,066.00		o	Ē
	OWENS-CORNING FIBERGLAS CORP	CANTOR FITZGERALD BROKERAGE, L.P.	NOx	12,721	2	1995	Coastal	12.72	1	0	F
2-28-95	BENTLEY MILLS INC	CANTOR FITZGERALD BROKERAGE, L.P.	NOx	175,000	2	1996-1999	Coastal	49,575.00	1	0	ř
2-27-9:	QUEEN CARPET CORP, TUFTEX CARPET DIV	TUFTEX CARPET MILLS INC, LA MIRADA	NOx	308,788	7	1995-2011	Coastal	0.00		6	
2-27-95	AEROVIRONMENT INC.	LA CITY, HARBOR DEPT	NOx	34,510	11	1994	Coastal	0.00		3	
2-27-95	CHRISTINE GRANDSTAFF	ELSINORE READY-MIX CO INC	NOx	74,070	- I	1994	Inland	0.00		3	
2-27-95	CHRISTINE GRANDSTAFF	US TILE CO	NOx	81,775	1	1994	Injand	0.00		3	
2-27-95	CHRISTINE GRANDSTAFF	PACIFIC CLAY PRODUCTS INC	NOx	9,140	1	1994	Inland	0.00			
2-27-95	CHRISTINE GRANDSTAFF	MILLER BREWING CO	NOx	50,000	1	1994	Inland	0.00		3	
2-27-95	CHRISTINE GRANDSTAFF	PARAMOUNT PETR CORP (EIS USE)	SOx	21,647	1	1994	Coasta	0.00		3	· /
2-27-95	CHRISTINE GRANDSTAFF	PARAMOUNT PETR CORP (EIS USE)	NOx	109,640		1994	Coastal	0.00		3	
2-27-95	CHRISTINE GRANDSTAFF	PGP INDUSTRIES INC	NOx	72,000	1	1994	Coastal	0.00			
2-27-95	CHRISTINE GRANDSTAFF	CROWN CORK & SEAL, CROWN BEVERA	NOx	22,105	1	1994	Coasta	0.00			
2-27-95	CHRISTINE GRANDSTAFF	CROWN CORK & SEAL CO INC	NOx	6,791	i	1994	Coasta	0.00		3	
2-27-95	CHRISTINE GRANDSTAFF	JEFFERSON SMURFIT CORPORATION (U.S	NOx	62,780	1	1994	Coasta	0.00		3	
2-27-95	CHRISTINE GRANDSTAFF	AMERICAN NATIONAL CAN CO	SOx	132,000	1	1994	Coasta	0.00	-		
	CHRISTINE GRANDSTAFF	AMERICAN NATIONAL CAN CO	NOx	200,000		1994	Coastal	0.00	- 7		A
2-27-95	RODNEY P. STAVERS	WESTERN DYEING & FINISHING CORP	NOx	15,000	- 1	1994	Coasta	0.00		- 1	A
2-27-95	US GYPSUM CO	CROWN CORK & SEAL CO INC	NOx	1,852		1994	Coasta	1.85			A
	CES ENERGY CORONA, LTD.	PACIFIC CLAY PRODUCTS INC	NOx	190		1994	Inland	0.19	_		A
	CES ENERGY ALBERHILL LTD	PACIFIC CLAY PRODUCTS INC	NOx	1,670	- 1	1994	Inland	1.67	- 1	3	A
	SO CAL GAS CO	SO CAL GAS CO (EIS USE)	NOx	6,583		1994	Inland	0.00	1	- 3	A
	TEAM ENVIRONMENTAL SERVICES, INC.	SO CAL GAS CO	NOx	23,603	1	1994	Coasta	0.00		4	A
	TEAM ENVIRONMENTAL SERVICES, INC.	SO CAL GAS CO (EIS USE)	NOx	326,057	- i l	1994	Inland	0.00	4	4	A
	TEAM ENVIRONMENTAL SERVICES, INC.	SO CAL GAS CO (EIS USE)	NOx	45,645	1	1994	Coasta	0.00	7	3	A
	TEAM ENVIRONMENTAL SERVICES, INC.	SO CAL GAS CO	NOx	285,243	i	1994	Coastal	0.00	7	3	A
2-27-95	TEAM ENVIRONMENTAL SERVICES, INC.	SO CAL GAS CO	NOx	86,200	1	1994	Inland	0.00		- 3	
2-24-95	BREA CANYON OIL CO INC	BREA CANYON OIL CO, ALBERT LEVINS	NOx	3,480	- il	1994	Coastal	3.48		3	
2-24-95	BREA CANYON OIL CO INC	JEFFERSON SMURFIT CORPORATION (U.S.	NOx	42,780	- 1	1994	Coasta	42.78	1		
	WEST NEWPORT OIL CO	CANTOR FITZGERALD BROKERAGE, L.P.	SOx	768,390	- i	1994	Coasta	0.00		- 4	A
2-21-95	WEST NEWPORT OIL CO	CANTOR FITZGERALD BROKERAGE, L.P.	NOx	365,978	1	1994	Coasta	0.00		- 9	<u></u>
2-21-95	SO CAL EDISON CO (EIS USE)	CANTOR FITZGERALD BROKERAGE, L.P.	NOx	9,170		1994	Coasta	0.00			
2-21-95	SO CAL EDISON; ALAMITOS GEN STA(EIS US		NOx	284,620	1	1994	Coastal	0.00		<u> </u>	
		CANTOR FITZGERALD BROKERAGE, L.P.	NOx	320,710	i	1994	Coaste	0.00			. B
-17-95	CHROMA SYSTEMS PARTNERS	SO CAL EDISON; ALAMITOS GEN STA(EIS	NOx	6,000	` 1	1994	Coasta	78.00		2	<u>B</u>
		SIMPSON PAPER CO (EIS ONLY)	NOx	310,000	2	1995	Inland	0.00			^
		SHELL WESTERN E&P INC	NOx	28,000	- 7	1995-1996	Coastal	2,177.00			A
		SHELL WESTERN E&P INC	NOx	1,480,000	 il -	1994	Coastal	0.00			A
		SHELL WESTERN E&P INC	NOx	1,471,341		1995	Coasta	1,471,341.00			<u></u>
		SO CAL EDISON; ALAMITOS GEN STA(EIS	NOx	350,000	- 	1995	Coasta	52,500.00	3	3	— <u> </u>
		SO CAL EDISON; ALAMITOS GEN STACEIS	NOx	200,000		1994	Coasta	0.00		. 4	^
		ANAHEIM FOUNDRY INC	SOx	20,838	- 2	1996-1999	Coasta	0.00	2		^ <u>A</u>
		WEST NEWPORT OIL CO	NOx	365,978	1 -	1994	Coasta	0.00			<u></u> -≙
		WEST NEWPORT OIL CO	807	769 200		1004	Coasta	0.00	3	1	В

SOx

NOx

768,390

133,642

1994

1995-2010

Coastal

Coasta

0.00

02-03-95 CANTOR FITZGERALD BROKERAGE, L.P.

01-27-95 CANTOR FITZGERALD BROKERAGE, L.P.

WEST NEWPORT OIL CO

WESTERN DYEING & FINISHING CORP

RTC TRADING ACTIVITIES FOR I	RECLAIM	From	ı: 1/1/94	To	: 11/3/95	5			Novembe	er 30, 199
DATE SUVERY	SECTION SECTION		OLANTITY THE			ORGUST THE	1,010,00			1. (6.6(8) 11.3)
07-29-94 CANTOR FITZGERALD BROKERAGE, L.P.	SAN DIEGO GAS & ELECTRIC	Nox	114,000	2	1995	Inlan	0.0	SUN W	DENIERA 1008	((0))
07-29-94 CANTOR FITZGERALD BROKERAGE, L.P. 07-29-94 CANTOR FITZGERALD BROKERAGE, L.P.	MOBIL OIL CORP (EIS USE)	NOx	400,000	1	1994				 	A
07-29-94 CANTOR FITZGERALD BROKERAGE, L.P.	LEVER BROS CO (EIS USE)	NOx	739,379	2	1995-2011		0.00		<u> </u>	4 A
07-29-94 CANTOR FITZGERALD BROKERAGE, L.P.	LA CITY, DWP SCATTERGOOD GENERAT	NOx	700,000	- 1	1994-1996		0.00		<u> </u>	A
07-29-94 CANTOR FITZGERALD BROKERAGE, L.P.	LA CITY, DWP HAYNES GENERATING ST	NOx	1,200,000	1	1994-1996		0.00		 	<u>^</u>
07-29-94 CANTOR FITZGERALD BROKERAGE, L.P.	FILTROL CORP	NOx	32,000]	1994				ļ ————————————————————————————————————	^
07-29-94 CANTOR FITZGERALD BROKERAGE, L.P.	ECO PETR INC (EIS USE ONLY)	NOx	30,122	2	1995-2011		0.00		 ;	
07-29-94 CANTOR FITZGERALD BROKERAGE, LP.	ECO PETR INC (EIS USE ONLY)	8Ox	54,015	2	1995-2011	Coastal	0.00			<u> </u>
07-29-94 CANTOR FITZGERALD BROKERAGE, L.P.	HITCO, (EIS USE)	NOx	2,000		1994	Coastal	0.00			B
07-29-94 CANTOR FITZGERALD BROKERAGE, L.P.	ARCO PRODUCTS CO	NOx	600,000	2	1996-1997	Coastal	0.00	3	2	^
07-29-94 CANTOR FITZGERALD BROKERAGE, L.P.	ANCHOR GLASS CONTAINER CORP	NOx	238,000	2	1995	Coasta	0,00	3		—— A
07-28-94 BENTLEY MILLS INC	ANAHEIM FOUNDRY INC	SOx	17,926	2	1995-1996	Coasta	0.00	3		
07-13-94 ALL AMERICAN ASPHALT	ORYX ENERGY CO ORYX ENERGY CO	NOx	5,143	1	1994-2010	Coastal	1,264,15	1		- A
07-13-94 HOLLIDAY ROCK CO INC	ORYX ENERGY CO	NOx	124,646	2	1995-2011	Coasta	23,850.38			<u>D</u>
05.00.04	ORYX ENERGY CO	_NOx	115,958	2 1	1995-2011	Coasta	21,726,70	2		
07-13-94 R J NOBLE COMPANY	ORYX ENERGY CO	NOx	123,198	2	1995-2011	Coastal	23,083.24	2		
07-06-94 BLUE DIAMOND MATERIALS	ORYX ENERGY CO	NOx	115,958	2 1	1995-2011	Coastal	21,726.70	2		
06-30-94 GRANITE CONSTRUCTION COMPANY	NEWHALL REF CO INC (EIS USE)	NOx	131,768	2 1	1995-2011	Coasta	32,399.63	3		
06-28-94 ANCHOR GLASS CONTAINER CORP	UNION CARBIDE CORP	NOx	225,888		1995-2011	Coastal	75,045.36	2	- 0	
06-03-94 HENRY W. WEDAA	SO CAL EDISON; ALAMITOS GEN STA(EIS	NOx	3,446,478	2_1	1995-2011	Coastal	1,275,196.86	4	- v	
03-22-94 AIRECON	CHELL MEGTERN EAR DIG	NOx	500	· 1	1994	Coastal	250.00	6		

NOx

500

SHELL WESTERN E&P INC

SO CAL EDISON; ALAMITOS GEN STA(EIS

Use Code Description:

03-22-94 JAMES M. LENTS, PH.D.

- I increase Allocation to satisfy annual compliance
- 2 Use under Rule 2005 New Source Review for RECLAIM
- 3 Increase RTC certificate balance. Don't issue a physical cert.
- 4 Issue a certificate.
- 5 Retire RTCs from market w/o issuance of certificate
- 6 Retire RTCs from market w/issuance of physical certificate
- 7 Facility Acquisition (Change of Ownership)

Generation Code Description:

- 0 Not Applicable
- 1 Process Change
- 2 Addition of Control Equipment
- 3 Production Decrease
- 4 Equipment or Facility Shutdown
- 5 MSERC
- 6 Facility Acquisition (Change of Ownership)
- 7 RTCs for Future Compliance Year

Acct. Source Code Description:

- A Allocation Account
- B Certificate Account
- C Printed Certificate

Coasta

1994

1994

500.00

50,00

Ox. 11/3/95 Ox. 11/3/95 Ox. 11/3/95 Ox. 11/3/95 Ox. 11/3/95 Ox. 11/3/95 Ox. 11/3/96 Ox. 11/3/96 Ox. 11/3/96 Ox. 11/3/97 Ox. 11/3/9	3 A	<u>u</u>	0.00	Consta	1 1994-1996	170,000	1		
TRADDING ACTIVITIES FOR RECLAIM	22	L	0.00	Coasta	1	170,000		SO CAL GAS CO	
CANTOR ITZZERAJA DRIOZRAMAR, L.P. INTRACOMENTATION CORP. NO. 1,250.00 1,994.00	2		0.00	Consist	1004	700,000	Ş	SO CAL EDISON CO	
TRADING ACTIVITIES FOR RECLAIM Prome 1/1/54 P	A	ع د	0.00	Cossis	1 1994-1995	1,920,000	Ş	SO CAL EDISON; ALAMITOS GEN STA(EIS	
TRADING ACTIVITIES FOR RECLAIM Part 1/194 Text 1/195		,	0.00	Coasta	1994	100,000	ğ	SUNLAW COGENERATION PARTNERS I	
TRADING ACTIVITIES FOR RECLAIM Paum: 1/154 Ter 1/15/95 Territorian Territori	<u> </u>	-	0.00	Coasta	1994	100,000	ş	UNUCAL REFINERY & MARKETING CORP	
TRADING ACTIVITIES FOR RECLAIM BINGRADARIA Pro 117/95		٤	0.00	Coasta	1994	100,000	Š	UNOCAL REFINERY & MARKETING CORP	
TRADING ACTIVITIES FOR RECLAM, LE INTOCADIDIS CORP NO. 1055.524 199.201 19	3	ω	0.00	Coasta	1994	150,000	Ş	WEST NEWFORL OIL CO	
TRADING ACTIVITIES FOR RECLAMA. L.P. INVOICAMENTS COMP. NO. 12,325 1995-2011 Comm. 10,00 3 1995-2011 Comm. 10,00 1995-2011 Comm. 10,00 3 1995-2011 Comm. 10,00 3 1995-2011 Comm. 10,00 3 1995-2011 Comm. 10,00 1995-2011	2	u	0.00	Coasta	1994	200,000	Š	HEST NEWFORT OF CO	CANTOR FITYGER AT IN BROVER AGE
TRADING ACTIVITIES FOR RECILAIM EVALUATION FILEDRAL DISCUELAGE LP INVINCEMBRE CORP. 11/94	0	Ļ	1 0.00	Coasta	2 1996-1997	600,000	3 3	NONENHOE,	CANTOR FITZGERALD BROKERAGE
TRADING ACTIVITIES FOR RECILAIN:	0 B	<u>u</u>	8,400.00	Coasta	1 1994-1995	200,000			
TRADING ACTIVITIES FOR RECILATM	0	u	0.00	Coasta	1 1994	2,000		CANTOR RITZGERAI D BROKERAGE I B	
TRADING ACTIVITIES FOR RECLAIM Prom: 1/194 Te: 11/3/95 Texture Tex	0 B	u	6,966.69	Coasta	4002-0004	2000		CANTOR FITZGERALD HROKER AGE 1 D	08-15-94 HITCO, (EIS USE)
TRADING ACTIVITIES FOR RECLAIM Prom: 1/1/94 To: 11/3/95 To: 11/3	0	و	0.00	Coasta	2000-2000	7076	Ş	CANTOR FITZGERALD BROKERAGE, L.P.	
TRADDING ACTIVITIES FOR RECLAIM	С	، اد	1,102.30	Consta	1904	150,000	z Ç	CANTOR FITZGERALD BROKERAGE, L.P.	
TRADING ACTIVITIES FOR RECLAIM Prom: 11/94 To: 11/95	, c	<u>, </u>	1 120 00		1004-1006	6.700	ğ	CANTOR FITZGERALD BROKERAGE, L.P.	
TRADING ACTIVITIES FOR RECLAIM STATE	2 5	ا.	0.00	Const	1994	200.000	ŠÕŠ	CANTOR FITZGERALD BROKERAGE, L.P.	
TRADING ACTIVITIES FOR RECLAIM Prom: 11/94 To: 11/95		310	8 130 00	Coasta	2 1996-1997	9,800	xO _x	CANTOR FITZGERALD BROKERAGE, L.P.	
TRADING ACTIVITIES FOR RECLAIM Prom: 11/94 To: 11/3/95				Coasta	1 1994-1996	170,000	KON	CANTOR FITZGERALD BROKERAGE, L.P.	
TRADING ACTIVITIES FOR RECLAIM	3 1	_		Coasta	1 1994	500,000	NO.		
TRADING ACTIVITIES FOR RECLAIM	3			Coasta	1 1994	100,000	KON		
IESS FOR RECLAIM		Ī		Coasta	2 1995-1996	10,000	KON	CANTOR FITZGERALD BROKERAGE, L.P.	
IES FOR RECLAIM		Ţ	Ţ	Consta	2 1995-1996	10,000	NOX	LEVER BROS CO (EIS USE)	
IES FOR RECLAIM		1	0.00	Coasta	2 1995	1,020,122	NOX	SO CAL EDISON CO (EIS & NSR USE ONLY)	
IES FOR RECLAIM		<u> </u>		Coasta	2 1995	494,138	Ñ	SO CAL EDISON CO (EIS USE)	10-31-94 BO CAL EDISON CO (EIS USE)
IES FOR RECLAIM				Consta	1 1994	92,000	Š	SO CAL EDISON CO	10-31-94 SO CAL EDISON CO (BIS OSE)
TRADING ACTIVITIES FOR RECLAIM Prom: 1/1/94 To: 11/3/95 To: 11/3	30	_		Coasta	1 1994	4,000		SO CAL EDISON; ALAMITOS GEN STA(EIS	10-31-94 SO CAL EDISON CO
CANTOR FITZGERALD BROKERAGE, L.P. UNION CARBIDE CORP NO. 1,55,594 2 1993-2011 Constal ROCE PROCESS NO. 1112/202 1994 Constal ROCE PROCESS NO. 12700 1 1994 Constal ROCE PROCESS NO. 12700 1 1994 Constal ROCE PROCESS NO. 12700 1 1994 Constal ROCE PROCESS NO. 1112/202 1 1994 Constal ROCE RATIOR FITZGERALD BROKERAGE, L.P. TEXACO REF & MARKETING INC ROCE ROCE RESOURCESS NO. 1270,000 1 1994 Constal ROCE RATIOR FITZGERALD BROKERAGE, L.P. REYNOLDS METALS CO (EIS USE) NO. 1270,000 1 1994 Constal ROCE RATIOR FITZGERALD BROKERAGE, L.P. REYNOLDS METALS CO (EIS USE) NO. 1270,000 1 1994 Constal ROCE RATIOR FITZGERALD BROKERAGE, L.P. REYNOLDS METALS CO (EIS USE) NO. 1270,000 1 1994 Constal ROCE RATIOR FITZGERALD BROKERAGE, L.P. REYNOLDS METALS CO (EIS USE) NO. 1,438,000 1 1994-1995 Constal ROCE RATIOR FITZGERALD BROKERAGE, L.P. REYNOLDS METALS CO (EIS USE) NO. 1,438,000 2 1995-2004 Constal ROCE RATIOR FITZGERALD BROKERAGE, L.P. REYNOLDS METALS CO (EIS USE) NO. 1,438,000 2 1995-2004 Constal ROCE RATIOR FITZGERALD BROKERAGE, L.P. LACITY, DWF SCATTEROCOD GENERATI NO. 100,000 1 1995-2004 Constal ROCE RATIOR FITZGERALD BROKERAGE, L.P. LACITY, DWF HAYNES GENERATING ST NO. 100,000 1 1995-2004 Constal ROCE RATIOR FITZGERALD BROKERAGE, L.P. LACITY, DWF HAYNES GENERATING ST NO. 100,000 1 1995-1997 Constal ROCE RATIOR FITZGERALD BROKERAGE, L.P. LACITY, DWF HAYNES GENERATING ST NO. 100,000 2 1995-1997 Constal ROCE RATIOR FITZGERALD BROKERAGE, L.P. LACITY, DWF HAYNES GENERATING ST NO. 100,000 2 1995-1997 Constal ROCE RATIOR ST NO. 100,000 2 1995-1997 Constal ROCE RATIOR ST NO. 100,000 2 1995-1997 Constal ROCE RATIOR ST NO. 100,000 1 1994-1995 Labord ROCE RATIOR ST NO. 100,000 1 1994-1995 Constal ROCE RATIOR ST NO. 100,000 1 1994-1995 Labord ROCE RATIOR ST NO. 100,000 1 1994-1995 Labord ROCE RATIOR ST NO. 10				Coastal	1 1994	200,000		SO CAL EDISON; ALAMITOS GEN STA(EIS	
TRADING ACTIVITIES FOR RECLAIM Prom: 1/1/94 To: 11/3/95				Coastal	1 1994	4,000		SO CAL EDISON; ALAMITOS GEN STA(EIS	
TRADING ACTIVITIES FOR RECLAIM From: 1/1/94 To: 11/3/95				Injand	1 1994	1,000	XOX	TIMCO INC	12-13-94 LANDEM INDUSTRIES
CANTOR FITZGERALD BROKERAGE, L.P. UNION CARBIDE CORP & MARKETING INC NON 1,239.5 1,200.000 1 1994. 1994 Coastal 0.00 3 1,200.000 1 1994. 1,200.000 1 1994. 1,200.000 1 1994. 1,200.000 1 1994. 1,200.000 1 1994. 1,200.000 1 1994. 1,200.000 1 1994. 1,200.000 1 1994. 1,200.000 1 1994. 1,200.000 1 1994. 1,200.000 1 1994. 1,200.000 1 1994. 1,200.000 1	4		29.	Coasta	2 1995-2011	105,418	KON	TEXACO EXPLORATION & PRODUCTION	
TRADING ACTIVITIES FOR RECLAIM				Coasta	1 1994	6,000	NOX	ALL AMERICAN ASPHALT	
TRADING ACTIVITIES FOR RECLAIM				Inland	1 1994-1996	152,000	KON	ALUMAX MILL PRODUCTS INC	_
TRADING ACTIVITIES FOR RECLAIM	3.	3		Coasta	2 1996-1997	600,000	NON	ARCO PRODUCTS CO	
TRADING ACTIVITIES FOR RECLAIM	- 4			Coasta	1994	10,901	NO,	FILTROL CORP	
TRADING ACTIVITIES FOR RECLAIM	2 3			Inland	2 1995	50,000	NOX	LIBBEY GLASS, INC	
TRADING ACTIVITIES FOR RECLAIM	3			Coasta	1 1995-1997	151,200		LA CITY, DWP HAYNES GENERATING ST	
TRADING ACTIVITIES FOR RECLAIM	3 4	2	·	Coasta	1 1997	100,000		LA CITY, DWP SCATTERGOOD GENERAT	
TRADING ACTIVITIES FOR RECLAIM		2 5		Coasta	2 1995-2011	475,332		NEWHALL REF CO INC (EIS USE)	
TRADING ACTIVITIES FOR RECLAIM				Coasta	2 1995-2004	1,438,000	NO.	THE PQ CORP	
TRADING ACTIVITIES FOR RECLAIM From: 1/1/94 To: 11/3/95 IVANIOR FITZGERALD BROKERAGE, L.P. UNION CARBIDE CORP NON 1,636,964 2 1993-2011 Coasta 0.00 3 ICANTOR FITZGERALD BROKERAGE, L.P. THE TERMO COMPANY NON 1,2329 1 1994 Coasta 0.00 3 ICANTOR FITZGERALD BROKERAGE, L.P. TEXACO REFINING & MARKETING INC SON 20,000 1 1994 Coasta 0.00 3 ICANTOR FITZGERALD BROKERAGE, L.P. TEXACO REF & MARKETING INC NON 1,000,000 1 1994 Coasta 0.00 3 ICANTOR FITZGERALD BROKERAGE, L.P. TEXACO REF & MARKETING INC NON 130,000 1 1994 Coasta 0.00 3 ICANTOR FITZGERALD BROKERAGE, L.P. STOCKER RESOURCES INC NON 130,000 1 1994 Coasta 0.00 3 ICANTOR FITZGERALD BROKERAGE, L.P. STOCKER RESOURCES INC NON 350,383 1 1994-1995 Coasta 0.00 3 ICANTOR FITZGERALD BROKERAGE, L.P. STOCKER RESOURCES INC NON 350,383 1 1994-1995 Coasta 0.00 3 ICANTOR FITZGERALD BROKERAGE, L.P.				Coasta	1 1994	4,500	_	REYNOLDS METALS CO (EIS USE)	_
TRADING ACTIVITIES FOR RECLAIM	3	4		Coasta	1 1995-1997	1,270,000		SO CAL EDISON; ALAMITOS GEN STA(EIS	
TRADING ACTIVITIES FOR RECLAIM From: 1/1/94 To: 11/3/95 VOX. VOX.<		2		Consta	1 1994-1995	350,383		STOCKER RESOURCES INC	CANTOR FITZGERALD BROKERAGE
TRADING ACTIVITIES FOR RECLAIM	2			Coasta	1 1994	130,000	kos	TEXACO REF & MARKETING INC	CANTOR FITZGERALD BROKERAGE,
TRADING ACTIVITIES FOR RECLAIM From: 1/1/94 To: 11/3/95 PROMINE BITUITIES FOR RECLAIM 1/1/2/2 1/1/2/2 To: 11/3/95 PROMINE BITUITIES FOR RECLAIM 1/1/2/2 1/1/2/2 1/1/2/2 1/1/2/2 PROMINE BITUITIES FOR RECLAIM 1/1/2/2 1/1/2/2 1/1/2/2 1/1/2/2 PROMITIES FOR RECLAIM 1/1/2/2 1/1/2/2 1/1/2/2 1/1/2/2 <t< td=""><td>2</td><td><u>و</u></td><td></td><td>Coasta</td><td>1 1994</td><td>1,000,000</td><td>NOX</td><td>TEXACO REF & MARKETING INC</td><td>CANTUR FITZUERALD BROKERAGE</td></t<>	2	<u>و</u>		Coasta	1 1994	1,000,000	NOX	TEXACO REF & MARKETING INC	CANTUR FITZUERALD BROKERAGE
TRADING ACTIVITIES FOR RECLAIM From: 1/1/94 To: 11/3/95 BUNER BUNER SIGNATURY	3	<u>و</u>		Coasta	1 1994	20,000	KOS.	Q	CANTUR HIZGERALD BROKERAGE
TRADING ACTIVITIES FOR RECLAIM From: 1/1/94 To: 11/3/95 ORGINATING CHARGE CORP NOW 1,636,964 1993-2011 Control C		<u>ق</u> س		Coasta	1 1994	12,329	NO.	THE TERMO COMPANY	CANTOR FITZGERALD BROKERAGE
TRADING ACTIVITIES FOR RECLAIM From: 1/1/94	0	á	The second second	Coasta		Î	NO.	UNION CARBIDE CORP	CAN LOR FILL GERALD BROKERAGE,
TRADING ACTIVITIES FOR RECLAIM From: 1/1/94 To: 11/3/95								TRAILES.	7777777
TRADING ACTIVITIES FOR RECLAIM	November 30, 199	A Manual Control of the Control of t			93	23	MOI'S	A NEW COLUMN TO A SECOND TO A	
								DECT.ATM	TRADING

SOX RTC UNIT PRICE FROM RTC TRADING	ROM RTC TRADING			Cycle:	2			From: 1/1/94	=	1 20		To: 11/3/95	15	/95				2	ove	mbe	November 30, 1995	, 19	35
											*												
HE COLUMN TO COLUMN THE COLUMN TH	897.198	2005	31	Z. 33	41 Kedis Kedis E. 2013 W.	Ä	Š	744 (1944 1946 1966 1966 1967 1667 1866 1966 1966 1966 1966 1966 1966 1966 1966		2	2			× (
08-29-1995 THE PQ CORP	DOMTAR GYPSUM INC	F	2		0.003						(E)	- 80		, W.				£.0.3	200	0.02	3000	02/0	-41
08-29-1995 GUARDIAN INDUSTRIES CORP	CHRISTINE OF ANDSTAFF	200	,	T		T	†	†.	†.	t.	+	╀	┼.	ļ.	Ŀ	Ŀ	ŀ			-	-	•	
08-28-1995 CHRISTOPHED ASSAM	BACIFIC CONTROL TO THE	COMMIAL	1	Ţ.	9.003	1.	╽.	╁.	 	╁.	-	H	ŀ	Ŀ	Ŀ	Ŀ		,	,		. ,		
The state of the s	TACIFIC STOCK EXCHANGE	COASTAL	2		0.000			,	•			_	<u>.</u>	<u> </u>	<u>.</u>	•			-		7	1	
08-24-1995 INATIONAL HEALTHY AIR LICENSE CANTOR FITZGERALD BROKERA	E CANTOR FITZGERALD BROKERA	COASTAL	2		0.000						7	+		4	4	\perp			1	†	†	†.	L
08-18-1995 GUARDIAN INDUSTRIES CORP.	US GYPSUM CO	COASTAL	2	.	0 003		_	1	7	7	+	+	+	+	1	1	ŀ	Ţ.	1.	1.	1.	 	<u></u>
07-27-1995 UNOCAL REFINERY & MARKETTN PACIFIC STOCK ENGLISHED	PACIEIC STOCK EVOUANCE	20.000	•		0.000	Ţ	1.	╽.	╽.	Τ.	╁.	†	+	ļ.	ŀ	Ŀ	ŀ	,	•	-			
	TOTAL COLOCK PROTECTION	TVIEWON	_	ŀ	0.000	ŀ	•	-				_	_	_	_	<u>.</u>	•			-			لـ
07-27-1995 THE SERVICE SOURCE	PACIFIC STOCK EXCHANGE	COASTAL	N .	,	0.000	•		•			.	.	-	-	<u>'</u>	4			T	1	1.	†.	
02-28-1995 ARCO PRODUCTS CO	CANTOR FITZGERALD BROKERA	COASTAL	2	<u>.</u>			0 % %	0 885 0 975 1 000 0 750	3	3	1	\dagger	+	╬	╬	Ļ	ŀ	.	Ţ.	Ţ.	1.	Ţ.	Ц.
02-28-1995 PARAMOUNT PETR CORP (EIS USE) CANTOR FITZGERALD BROKERA COASTAL 2	CANTOR FITZGERALD BROKERA	COASTAL	<u>.</u>		27						+	1.	╁	╀	╀.	Ŀ	Ŀ	.	1.				
				•															_			•	

08-15-1994 ARCO PRODUCTS CO

CANTOR FITZGERALD BROKERA

SOX RTC UNIT PRICE FR	OM RTC TRADING		C	ycle:	1		Fr	om:	1/1/9)4	To	: 11	/3/95	i .			N	oven	nber	30,	1995
Name SUNTER	4414.98	ZONE		1004		100%	100	1998	1000	~~~~~				AGENINISH		200 20 20 20	107	5777	i sarane		
08-29-1995 ARCO PRODUCTS CO	POWERINE OIL CO (EIS USE)	COASTAL	*****	•	*****	*******	ATTACK TO SERVICE			0.389	***********	-	********	**********	***	A THE REAL PROPERTY.		****			
03-21-1995 MOBIL OIL CORP (EIS USE)	WEST NEWPORT OIL CO	COASTAL	i	0.000	·	<u> </u>		•			-	•	-	-			_	•	<u> </u>	-	>
03-02-1995 MOBIL OIL CORP (EIS USE)	CANNERS STEAM CO INC	COASTAL	1	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	

AVERAG	E DAI	LY S	OX RI	C TR	ADIN	G PR	ICE -		Cycle:	2	From:	1/1/94	To:	11/3/95).		Nove	mber 3	0, 1995
neconomo pere	DLSC*	1994	1 1995	1996	1997	1998	1999	2000			9(0); N	3 13	TUES	8.00	2007	2008	70972	2010	30.0
08-29-1995	Q	-	651	-	-	-	•	-		-			•	<u> </u>	<u> </u>	<u> </u>	<u> </u>	· -	
	P	-	0.0030	-	-	<u>.</u> '			;		<u> </u>	<u> </u>		-		ļ :	•	<u> </u>	1 - 1
08-28-1995	Q	-	22,000		-	•	•			-	-	<u> </u>					<u> </u>	-	
	P	-	0.0003	-	-	-		,			<u> </u>	-	<u>.</u>	<u> </u>	<u> </u>	<u> </u>	•	-	
08-24-1995	Q		179,958	•		-	-		· ·	-	-	<u> </u>	•		<u> </u>	<u> </u>	<u> </u>	<u> </u>	-
	P	-	0.0000	-	•	•		-	<u> </u>	<u> </u>	-	<u> </u>	-	<u> </u>	<u> </u>	-		<u> </u>	
08-18-1995	Q	-	47,000	•		•	-		<u> </u>	<u> </u>	<u> </u>	-		-	<u> </u>	<u> </u>	 -	<u> </u>	
	P	-	0.0030			•	<u> </u>		<u> </u>		<u> - </u>	<u> </u>	-	<u> </u>	-		ļ <u>.</u>	<u> </u>	<u> </u>
07-27-1995	Q		409,000	-		•				-	<u> </u>		•	-	•	<u> </u>	<u> </u>	<u> </u>	•
	P	-	0.0003	-	•	•	•		· <u>-</u>	<u> </u>	<u> </u>	<u> </u>	-	<u> </u>		<u> </u>	<u> </u>	<u> </u>	-
02-28-1995	Q	-	8,162	9,838	34,320	36,220	36,220	1,900		<u> - </u>	_	-	-	-	<u> </u>		• 1		• .
	P		0.6370	0.6370	0.8850	0.9750	1.0000	0.7500			 -		<u> </u>	· .	<u> </u>		<u> </u>		<u> </u>
08-15-1994	Q	-	•	5,900	3,900	•			-	<u> </u>		<u> </u>	-	-		-	<u> </u>	<u> </u>	
	P			0.7500	0.9500	-	 	<u> </u>		<u> </u>		-		<u> </u>	<u></u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

NOTE:

. *DESCRIPTION OF SUBJECT ITEM

Q: QUANTITY (LB)

AVERAGE DAILY SOX RTC TRADING PRICE	Cycle: 1	From: 1/1/94	To: 11/3/95	Novembe	r 30, 1995
	300000000000000000000000000000000000000	**************************************	*************************************	***************************************	

******				************	*****	***************************************				_		_, _,,		22,0,74			_ X10,7 C	WINDLY A	ひり ムンフィ
инсонціла									D47 E	OFFICA	mas vi								
DATE	DESC	1094	1000		Eart III	1998	10.55	2000	2001	2002	2002	2004	0000	2006	2007	2008	100	es in	long.
08-29-1995	Q	·	111,992	201,538	179,090	156,643	134,196	111,749	99,139	86,530	73,920	73,920	73,920	73,920	73,920	73,920	73,920	73,920	-
	P		0.3887	0.3887	0.3887	0.3887	0.3887	0.3887	0.3887	0.3887	0.3887	0.3887	0.3887	0.3887	0.3887	0.3887	0.3887	0.3887	
03-21-1995	Q	180,000	-	•	•		•	•	-	-	-		-	-		-			
	P	0.0001		•	•	•	-	-	-	-	-	-	-	-	-	-	_		<u> </u>
03-02-1995	Q	8,358	8,596	8,596	8,596	8,596	8,596	8,596	8,596	8,596	8,596	8,596	8,596	8,596	8,596	8,596	8,596	8,596	
	P	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	

Q: QUANTITY (LB)
P: AVERAGE PRICE (\$/LB)

NOX RTC UNIT PRICE FROM RTC TRADING

Cycle: 2

From: 1/1/94

To: 11/3/95

November 30, 1995

27-11-1995 SHARYN STEAM INC INLAND CONTAINER CORP INLAND 2 0.00	*****************			. eccococcionos es	40000000			****************			~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	/)		V. 1	1/3/7.					OACI	IINCI	`JU,	エススコ
50-01-995 GRAND CONTAINER CORP INLAND 2 0.001	DATE	BUVER	eKY, s.t.r.	ZONE	4	1274	11995	11996	TGO	I I GOTA	11999	2 12000	C E	VPII	LATI 286	ONN	(EA)	k 12.00	lanes.				
200 200	07-11-1995	SHARYN STEAM INC	INLAND CONTAINER CORP	INLAND	2	-	0.001	-	-		-	•	-	-	-	-		-	-	-	**************************************	\$60\03.	*****
December 3 CERESTOR ANCHOR GLASS CONTAINER COR COASTAL 2 0.0400 0.	06-09-1995	US GYPSUM CO	THE PQ CORP	COASTAL	2	-		0.160	0.280	0.290	0.350	0.700	0.730	0.760	0.920	1.000	1.030	1.070	1.110	1 150	1 100	1 240	1 300
22-16-1995 CHRISTOPHER ASSAD SHOLTZ & ASSOCIATES, LLC COASTAL 2 0.002 0.080	06-08-1995	CBPO OF AMERICA, INC	ANCHOR GLASS CONTAINER COR	COASTAL	2	-	0.400				•	-	·		-	-				-	1,,,,,	1.270	1.300
14-25-1995 KEYSOR-CENTURY CORP R JNOBLE COMPANY COASTAL 2 0.010 0.00 0.000 0	05-22-1995	U.S. GOVT, DEPT OF NAVY	US GOVT, NAVY DEPT LB SHIPYA	COASTAL	2	-	1.000	-	١.				-		-		 			 	 	 	 -
14-25-1995 15-25	05-16-1995	CHRISTOPHER ASSAD	SHOLTZ & ASSOCIATES, LLC	COASTAL	2	•	0.002	0.080	ļ -	T -	1	1	-	-	-		一	-	 	-	H	⊢	
3-06-1995 INDUSTRIAL ASPHALT INTILIGHT METALS CORP (EIS U COASTAL 2 - 0.48 0.48 0.44	04-25-1995	KEYSOR-CENTURY CORP	R J NOBLE COMPANY	COASTAL	2		0.010	-	-	-	-	-	-			-	 .	-	-	 	-	- -	
3-02-1995 ARCO CQC KILN ARCO PRODUCTS CO COASTAL 2 . 0.001	04-25-1995	US GYPSUM CO	THE PQ CORP	COASTAL	2	-	0.010	•	-	·	-	-	-	-	_	-	 	 		<u> </u>	 		
3-02-1995 ARCO CQC KILN ARCO PRODUCTS CO COASTAL 2 0.001 - 0	03-06-1995	INDUSTRIAL ASPHALT	INTL LIGHT METALS CORP (EIS U	COASTAL	2	-	0.448	0.448	0.448	0.448	0.448	0.448	0.448	0.448	0.448	0.448	0.448	0.448	0.449	0.448	0.449	0.449	0.449
3-02-1995 CALRESOURCES LLC SHELL WESTERN E&F INC; (BREA COASTAL 2 - 1.000 1.000 1.000 2.000 2.000 2.000 3.00	03-02-1995	ARCO CQC KILN	ARCO PRODUCTS CO	COASTAL	2						T -	-			-	-		0.178	0.110		0.448	0.440	0.448
SHELL WESTERN E&F INC; (BREA COASTAL 2 - 1.000 1.000 1.000 2.000 2.000 3.0	03-02-1995	CALRESOURCES LLC 1040	SHELL WESTERN E&P, INC	COASTAL	2		1.000	1.000	1.000	2.000	2.000	2.000	3.000	3.000	3.000	3 000	3 000	3 000	3 000	2 000	3 000	2 000	2000
228-1995 BENTLEY MILLS INC CANTOR FITZGERALD BROKERA COASTAL 2 - 0.159 0.275 0.287 0.350 - 0.15 0.287 0.350 - 0.15 0.287 0.288 0.280	03-02-1995	CALRESOURCES LLC	SHELL WESTERN E&P INC; (BREA	COASTAL	2	-	1.000	1.000	1.000	2.000	2.000	2.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	2.000	3.000
22-28-1995 LA CITY, DWP SCATTERGOOD GE CANTOR FITZGERALD BROKERA COASTAL 2 - 0.001 0.695 0.726 0.706 0.923	02-28-1995	BENTLEY MILLS INC	CANTOR FITZGERALD BROKERA	COASTAL	2	-	•	0.159	0.275	0.287	0.350	_		_	•	2.000	3.000	3,000	3.000	3.000	3.000	3.000	3.000
2-28-1995 DEMENNO/KERDOON CANTOR FITZGERALD BROKERA COASTAL 2 - 0.001 0.159 0.275	02-28-1995	OWENS-CORNING FIBERGLAS COR	CANTOR FITZGERALD BROKERA	COASTAL	2	•							_		-				_				<u>-</u>
2-28-1995 DEMENNO/KERDOON CANTOR FITZGERALD BROKERA COASTAL 2 - 0.001 0.159 0.275	02-28-1995	LA CITY, DWP SCATTERGOOD GE	CANTOR FITZGERALD BROKERA	COASTAL	2	-				-	-	0.695	0.726	0.776	0 923	_				 -	<u> </u>	-	-
228-1995 DIESEL RECON CO CANTOR FITZGERALD BROKERA COASTAL 2 - 0.001	02-28-1995	DEMENNO/KERDOON	CANTOR FITZGERALD BROKERA	COASTAL	2	•	0.001	0.159	0.275	-	-	-			-					-	-	-	-
0-12-1994 R. R. DONNELLEY & SONS CO, LA LEVER BROS CO (EIS USE) COASTAL 2 - 0.200 0.200 0.740 0.790 0.850 0.280 0.	02-28-1995	DIESEL RECON CO	CANTOR FITZGERALD BROKERA	COASTAL	2	_	=	_		-	-		_		_	-	<u> </u>				-	-	
0-12-1994 R. R. DONNELLEY & SONS CO, LA LEVER BROS CO (EIS USE) COASTAL 2 - 0.200 0.200 0.740 0.790 0.850 0.915 1.045 0.740 0.790 0.850 0.915 1.045 0.740 0.790 0.850 0.915 1.045	01-17-1995	NABISCO BRANDS INC	TEXACO EXPLORATION & PRODU	COASTAL	2	$\overline{}$	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0 280	0.280	0.280	0.290	0.200	0.280	- 0.000	0.000	-
8-15-1994 HITCO, (EIS USE) CANTOR FITZGERALD BROKERA COASTAL 2 - 0.160 0.160 0.160 0.160 0.160 0.160 0.160 0.160 0.160 0.180 0.200 0.220 0	10-12-1994	R. R. DONNELLEY & SONS CO, LA	LEVER BROS CO (EIS USE)	COASTAL	2									•	0.200		0.280	0.260	0.280	0.280	0.200	0.280	0.280
7-13-1994 R J NOBLE COMPANY ORYX ENERGY CO COASTAL 2 - 0.160 0.160 0.160 0.160 0.160 0.160 0.160 0.160 0.180 0.200 0.220	08-15-1994	HITCO, (EIS USE)	CANTOR FITZGERALD BROKERA	COASTAL	2		-		-	-		0.740	0.790	0.850	0.915	1.045	<u> </u>				<u> </u>		
7-13-1994 SULLY-MILLER CONTRACTING CO ORYX ENERGY CO COASTAL 2 - 0.160 0.160 0.160 0.160 0.160 0.160 0.160 0.180 0.200 0.220 0	07-13-1994	R J NOBLE COMPANY	ORYX ENERGY CO	COASTAL	2		0.160	0.160	0.160	0.160								0.220	0.220	0.220	0.220		-
7-13-1994 HOLLIDAY ROCK CO INC ORYX ENERGY CO COASTAL 2 - 0.160 0.160 0.160 0.160 0.160 0.160 0.160 0.160 0.160 0.180 0.200 0.220 0.	07-13-1994	SULLY-MILLER CONTRACTING CO	ORYX ENERGY CO	COASTAL	2	-	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.180	0.200	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220
7-13-1994 ALL AMERICAN ASPHALT ORYX ENERGY CO COASTAL 2 - 0.160 0.160 0.160 0.160 0.160 0.160 0.160 0.160 0.160 0.180 0.200 0.230 0.	07-13-1994	HOLLIDAY ROCK CO INC	ORYX ENERGY CO	COASTAL	2	-	0.160	0.160	0.160	0,160	0.160	0,160	0.160	0.180	0.200	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220
7-06-1994 BLUE DIAMOND MATERIALS ORYX ENERGY CO COASTAL 2 - 0.210 0.210 0.210 0.210 0.210 0.210 0.210 0.230 0.260 0.290	07-13-1994	ALL AMERICAN ASPHALT	ORYX ENERGY CO	COASTAL	2		0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.180	0.200	0.230	0.230	0.230	0.230	0.230	0.230	0.220	0.220
6-30-1994 GRANITE CONSTRUCTION COMPA NEWHALL REF CO INC (EIS USE) COASTAL 2 - 0.283 0.283 0.283 0.283 0.283 0.283 0.283 0.283 0.283 0.312 0.348 0.393 0.393 0.393 0.393 0.393 0.393 0.393 0.393 0.393 0.393	07-06-1994	BLUE DIAMOND MATERIALS	ORYX ENERGY CO	COASTAL	2		0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.230	0.260	0.290	0.290	0.290	0.290	0.290	0.230	0.230	0.230
	06-30-1994	GRANITE CONSTRUCTION COMPA	NEWHALL REF CO INC (EIS USE)	COASTAL	2	-	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.312	0.348	0.393	0.393	0.393	0.393	0 393	0 393	n 303	0.202
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	06-28-1994	ANCHOR GLASS CONTAINER COR	UNION CARBIDE CORP	COASTAL	2																		

NOX I	RTC UNIT PRICE FR	ROM RTC TRADING		(Cycle	: 2		F	rom:	1/1/	94	1	io: 1	1/3/9	5			N	ovei	mbei	r 30,	199
			la de la constante de la const																			
DATE	BLYER	SFILER	ZONE										7.51									
	SWEETHEART CUP CO INC	PACIFIC STOCK EXCHANGE	COASTAL	2	-	2 (3.23)		0.18		3 33366				36.00.0	****			XXX	3244	322.12.		
11-01-1995	THE SERVICE SOURCE	PACIFIC STOCK EXCHANGE	COASTAL	2	1:	1 -	1	+-	0.16	8 -		 	1.	 	1	+-	 	 	 	╁╌	╁╌	┼
09-07-1995	LA CITY, DWP SCATTERGOOD GE	CANTOR FITZGERALD BROKERA	COASTAL	2	1 -	١.	١.	1.	-	1	0.68	8 0.61	5 0 61	5 0 74	0 82	0 84	0.84	n 94	10.85	0 9 9 2	1 -	0.853
09-07-1995	SULLY-MILLER CONTRACTING CO	CHRISTINE GRANDSTAFF	COASTAL	2		0.00	1 -	 -	1	1 -			1 .	1 .	1	0.54.	70.07.	70.07.	70.65.	, 0.823	0.833	10.623
08-31-1995				2	١.	0.00	+	1.	-	 	 	١.	1	 	+-	+	+ -	╁	1	 	一	╁┷
08-31-1995		PACIFIC STOCK EXCHANGE	COASTAL	2	١.	0.00	d -	1	 	† <u>.</u>	 	Ι.	1 .	١.	╁╌			┢┋	 	1	├	╁╌
-	US GYPSUM CO	CHRISTINE GRANDSTAFF	COASTAL	2	1 -	0.00	+	1	1 -	1 -	 		1	 	╅	 	┢		╅╧	 	一	 -
08-31-1995		CANTOR FITZGERALD BROKERA	COASTAL	2	1	0.00	0 -	 		1 -	 .	1 -	١.	١.	١.	 		 	 	H	╁	
08-31-1995	ENERGY SERVICES CO	CALRESOURCES LLC 104	COASTAL	2	-	0.02	0 -	1.		-	 - ,	١.	1 -	Ι-	 -	 .	٠.	-	 			Ħ
08-31-1995	CARLTON FORGE WORKS	ENERGY SERVICES CO	COASTAL	2		0.02	5 -	T -		-	 	1 -	1.	1 -	<u> </u>	-	1		 _		 	
08-31-1995	PRESS FORGE CO	ENERGY SERVICES CO	COASTAL	2	-	0.02	5 -	-	-	-	-	1 -	<u> </u>	1	 	 -	1.	<u>├</u>	-	<u> </u>		
08-30-1995	LIGHT METALS INC	CHRISTINE GRANDSTAFF	INLAND	2	-	0.00	1 -	١.	-	1	-	-	-	,	-	<u> </u>	-	·	 .	 		
08-29-1995	MOBIL OIL CORP (EIS USE)	THE SERVICE SOURCE	COASTAL	2	-	0.00	1 -	1 -	-	-		-	-	-	-	1	<u> </u>		 .	<u> </u>		
08-29-1995	SCHLOSSER FORGE CO	THE SERVICE SOURCE	COASTAL	2	T -	0.01	0 -	1 -	-	-	一	-	-	-	<u> </u>	T -		<u> </u>	 -	<u> </u>	<u> </u>	
08-29-1995	NATIONAL HEALTHY AIR LICENSE	CANTOR FITZGERALD BROKERA	COASTAL	2	-	0.00) -	1.	-	-		-		·	一 .	 		-	 -	 		H
	NATIONAL HEALTHY AIR LICENSE	CANTOR FITZGERALD BROKERA	INLAND	2	•	0.00	-	-	-	-		-	-	-	·	<u> </u>		•	-	-		
08-29-1995	CUSTOM ALLOY SALES INC	CHRISTINE GRANDSTAFF	COASTAL	2	-	0.00	-	-	-		-	1	T -	-	-	-	-		_		-	<u> </u>
08-29-1995	LIGHT METALS INC	CHRISTINE GRANDSTAFF	INLAND	2		0.00	1 -		-	-	-	-	-	-	•	-		•	<u> </u>		-	_
08-28-1995	GEORGIA-PACIFIC CORP	CANTOR FITZGERALD BROKERA	COASTAL	2	Ŀ	0.000		Ŀ	-	-	•	-				-		-	-	-	-	
08-28-1995	CHRISTOPHER ASSAD	PACIFIC STOCK EXCHANGE	INLAND	2	Ŀ	0.000		·	_	-	-	-	-	-	-	-	•	-		-	-	-
08-25-1995	CLOUGHERTY PACKING CO, FARM	THE SERVICE SOURCE	COASTAL	2		0.010		·	1	-	•	-	-	•		-	-	_	-		-	-
08-24-1995	DAVIS WIRE CORP	THE SERVICE SOURCE	COASTAL	2		0.010			•	-			_			-	-		-	-	-	
08-23-1995	TRANSAMERICAN PLASTICS CORP	LA CITY, DWP VALLEY GENERATI	COASTAL	2	•	0.001	0.160	-		•	•	•	-		•		-	-	•	-	·	
08-23-1995	ONTARIO COGENERATION INC	PACIFIC CLAY PRODUCTS	INLAND	2	Ŀ	0.010	<u> </u> :	<u> </u> -	•	Ŀ	-			-	•	<u> </u>	•	•	•	-	-	-
08-22-1995	MARUCHAN INC	THE SERVICE SOURCE	COASTAL	2	<u> </u>	0.010	-	<u> </u>	•	-	•	<u> </u>	•		-	-		-	•		•	•
08-21-1995	R. R. DONNELLEY & SONS CO, LA	CANTOR FITZGERALD BROKERA	COASTAL	2		0.000	-	<u> </u>	-		. •	-	•	-	-	-		•	•		-	-
	US BORAX INC (EIS USE)	THE SERVICE SOURCE	COASTAL	. 2		0.010		-		-	-	•	1	•	•	-	-	•	-		-	-
08-09-1995	ALPHA/OWENS-CORNING, L.L.C.	CANTOR FITZGERALD BROKERA	INLAND	2	•	0.000	-	Ŀ	-	Ŀ		+	•	•		•		•	-	· -		
08-08-1995	LIBBEY GLASS, INC	PACIFIC STOCK EXCHANGE	INLAND	2	-	0.000		Ŀ		-	-		•	-	-	-	•	-	•	-		
08-02-1995	SPECIALTY PAPER MILLS INC	PACIFIC STOCK EXCHANGE	COASTAL	2		0.000	Ŀ	-	٠	-	<u>:</u>	-		-	-	-		-		•]	-]	-
08-02-1995	KAL KAN FOODS INC	PACIFIC STOCK EXCHANGE	COASTAL	2	-	0.000	-	-		·	•	•	-	. •		•		-	-	- 1	$\overline{\cdot}$	$\overline{\cdot}$
08-02-1995	LORBER INDUSTRIES OF CALIFOR	PACIFIC STOCK EXCHANGE	COASTAL	2		0.000	0.172		-	-		-	•	-]	-		-	-	-	一	\Box
08-02-1995	MATCHMASTER DYEING & FINISH	PACIFIC STOCK EXCHANGE	COASTAL	2		0.000	<u>-</u> :]					- 1		<u>.</u>	- 1	-	-	-1
08-02-1995	UNION OIL CO OF CAL (NSR USE O	CANTOR FITZGERALD BROKERA	COASTAL	2	•	0.001	0.157	0.270	0.280	0.350	0.650	0.700	0.750	0.850	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
08-02-1995	CALIFORNIA MILK PRODUCERS	SIMPSON PAPER CO (EIS ONLY)	INLAND	2	-	0.050	1	.	-	- 1	- 1		-	- 1	-	- 1	-		- 1	.	$\overline{}$	\neg

Dana 1

COASTAL 2

COASTAL

PACIFIC STOCK EXCHANGE

PACIFIC STOCK EXCHANGE

07-27-1995 WESTERN WHEEL CORP 07-27-1995 THE SERVICE SOURCE

NOX R	NOX RTC UNIT PRICE FROM RTC TRADING	OM RTC TRADING		·	Cycle:	_		뉽	From: 1/1/94	1/1	4	H.	.	To: 11/3/95	•			Z)Ven	ber	November 30, 1995
															•						
	BENILD	35 T 1 25			961 966 S 2665 P06			a , , y.,											1 2 2 3 1 2 3 1 2 3 1 3 1 3 1 3 1 3 1 3		
02-17-1995	02-17-1995 CHROMA SYSTEMS PARTNERS	SO CAL EDISON; ALAMITOS GEN	COASTAL	_	0.013	•		- 2	-	,					-			\$20,928		200	800000000000000000000000000000000000000
02-07-1995	02-07-1995 SHELL WESTERN E&P, INC	SHELL WESTERN E&P INC	COASTAL	-	•	1.000	•	$\overline{\cdot}$					•			.			· [·	<u> </u>	1
02-07-1995	02-07-1995 BARMET ALUMINUM CORP	SHELL WESTERN E&P INC	COASTAL	-		0.020	0.020 0.125	•		$\overline{\cdot}$		•			$\cdot \mid$	$\cdot \mid$.]	• [.	1	<u> </u>
02-06-1995	02-06-1995 CANTOR FITZGERALD BROKERAG SO CAL EDISON; ALAMITOS GEN	SO CAL EDISON; ALAMITOS GEN	COASTAL	-		0.150											•	•]		1	1
01-19-1995	01-19-1995 ALL AMERICAN ASPHALT, UNIT N	ALL AMBRICAN ASPHALT	COASTAL	-	0.010				\cdot		٠	.				$\cdot \mid$		$\cdot $		<u>· </u>	<u> </u>
12-15-1994	12-15-1994 TANDEM INDUSTRIES	TIMCO INC	INLAND		0.320	,	-		·		\cdot									-	•
12-09-1994	12-09-1994 HENKEL CORP, EMERY GROUP	SO CAL EDISON; ALAMITOS GEN	COASTAL	1	0.013	·		٠			•		$\overline{\cdot}$					<u>. </u>	<u>· </u>	<u>· </u>	1
08-15-1994	08-15-1994 BENTLEY MILLS INC	CANTOR FITZGERALD BROKERA	COASTAL	1	0.001	0.001 0.167	,		•		-	• •	$\overline{\cdot}$	•	•	.			•	•	<u>.</u>
08-15-1994	08-15-1994 WESTERN METAL DECORATING C CANTOR FITZGERALD BROKERA	CANTOR FITZGERALD BROKERA	COASTAL	1	0.001	0.001 0.167 0.287	0.287	٠		•		$\overline{\cdot}$	$\overline{\cdot}$	•	$\cdot \mid$	٠	•		·	<u>· </u>	•
07-28-1994	07-28-1994 BENTLEY MILLS INC	ORYX ENERGY CO	COASTAL	1	0.210	0.210	0.210 0.210 0.21		0.210	0.210	0.210	0.230	0.260	0.290	0.290	0.290	0.290	0.290	0.290	0.210 0.210 0.210 0.230 0.260 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290	290
06-03-1994	06-03-1994 HENRY W. WEDAA	SO CAL EDISON; ALAMITOS GEN	COASTAL	-	0.500	,	ļ.	·	·		•	٠		•	-	٠	·	<u>· </u>	<u>. </u>	<u>. </u>	•
03-22-1994	03-22-1994 JAMES M. LENTS, PH.D.	SO CAL EDISON; ALAMITOS GEN	COASTAL	-	0.500	·			ŀ		•	•	•	•		•	•	•		•	<u>· </u>
03-22-1994 AIRECON		SHELL WESTERN E&P INC	COASTAL	-	1.000		•			•	•			•		•		<u>.</u>			1

.NOX	RTC UNIT PRICE FI	ROM RTC TRADING	1 r		Cycl	e: 1		F	rom:	1/1/	/94	·T	'o: 1	1/3/9	5			N	ove	mbe	r 30.	199
DATE	DITTER	4011400									2	K I					R					
	SWEETHEART CUP CO INC	PACIFIC STOCK EXCHANGE	COASTAL	1		0.02	2016	1 0.22		11.22	3 2800	200	200			1200				EU.	2.03.1	2201
11-01-199	THE SERVICE SOURCE	PACIFIC STOCK EXCHANGE	COASTAL	ì	 .	0.02	┪━┈	0.22	1	╁╌	+:	╁∸	╁∸	╁╌	╁	╁╌	╁	+-	┾	 -	 •	╀┷
11-01-199	PRAXAIR INC	PACIFIC STOCK EXCHANGE	COASTAL	 	 	0.02		1-	 	1	 	+-	-	╁╌	╁╌	 →	╀∸	+-	[∸	-	├	
10-20-199:	GARY BIRD	SUNLAW COGENERATION PARTN	+	ī	1.	0.16	1	1		 	1	1	 	╁╌	╁	╁╌	┼╌	 ∸	 -	╀∸	 	╁∸
09-08-1995	AVERY DENNISON	CANTOR FITZGERALD BROKERA	COASTAL	1	 	0.08	+		 	 	+ -	 -	 	+-	 ∸	1	╂	┝	 ∸	-	ᆣ	├
09-07-1995	LA CITY, DWP SCATTERGOOD GE	<u> </u>	COASTAL	1	+-	1	1.	1.	╅	0.410	0.505	0.619	0.691	0.701	0.02	2004	-	 		-	<u> </u>	├
08-28-1995	JEANNETTE V. OREL	SO CAL EDISON CO (EIS USE)	COASTAL	1	١.	0.01	, -	1		10.410	, 0.35.	0.615	0.081	10.783	0.832	270.84	0.84	0.849	0.853	0.853	0.853	
08-28-1995	CHRISTOPHER ASSAD	PACIFIC STOCK EXCHANGE	COASTAL	1	 .	1 -	+-	0.398	0 577	0 747	0.949	 	<u> </u>	╁	1 -	╁╌	 -	 -	 	ŀ	<u> </u>	<u> </u>
	CHRISTOPHER ASSAD	PACIFIC STOCK EXCHANGE	INLAND	1	1.	0.010	T	10.00	-		-		H	 	H	╁╌	 	 -	┝┷	-	i	<u> </u>
08-22-1995	UNITED STATES CAN CO	SO CAL EDISON CO (EIS USE)	COASTAL	Ħ	1.	0.02	 	Η.	1		 	 		 -	⊢∸	╌	 -	 ∸	ļ. <u> </u>	<u> </u>	-	
08-21-1995	FILTROL CORP	POWERINE OIL CO (EIS USE)	COASTAL	Î	╁╌	1	1	0.500	0.500	0.500	0.500	0.500	0.500	0 500	┝╌	╀╌	├╌	┝∸	 -		\vdash	
08-02-1995	LORBER INDUSTRIES OF CALIFOR		COASTAL	Ħ	1	0.017	 	0.500	0.500	0.500	0.500	0.500	0.500	0.500	 -	⊢	<u> </u>	<u> </u> -	<u> </u>	<u> </u>	-	-
	SO CAL GAS CO (EIS USE)	PACIFIC STOCK EXCHANGE	COASTAL	1	+	0.017	 	H	-	0.747	0.949	-	<u> </u>	- -	┝∸	┝	 -	 -	-	-		
	PACIFIC ECONOMIC RESEARCH CO		COASTAL	1	† <u> </u>	+-	 	\vdash	 		_	1.148	<u> </u>		<u> </u>	⊢∸	-		-	·	•	-
	WESTERN WHEEL CORP	PACIFIC STOCK EXCHANGE	COASTAL	H		0.017	 	┝╌	i -	Ė	0.949	1.148	-	<u> </u>	┝┷		<u> -</u>	<u> </u>			-	-
07-12-1995	GUARDIAN INDUSTRIES CORP.	BREA CANYON OIL CO INC	COASTAL	H	+-	0.007	┼──	┝∸	<u> </u>	Ŀ	┝∸	<u> </u>		Ŀ	-	<u> </u>	<u> -</u>	٠	·	*	•	-
05-25-1995	BARMET ALUMINUM CORP	CALRESOURCES LLC	COASTAL	Ť		0.007		0.250	0.375	0.625	0.075		-		<u> </u>	-	<u> </u>	-	•		-	
04-18-1995	PETER VENTURINI	SO CAL EDISON; ALAMITOS GEN	COASTAL	H	† –	0.110		0.250	0.575	0.623	0.673		-	-	<u>-</u>	 -	\vdash		:	-		
03-02-1995	SIERRA RESEARCH, INC.	WHEELABRATOR NORWALK ENE	COASTAL	1	0.010	╁─					-				-	-	<u> </u>		•	-		<u></u>
	ENERGY SERVICES CO	CANNERS STEAM CO INC	COASTAL	_	0.010	+					-				-		•	-	•	-	_=	
03-02-1995	WESTERN WHEEL CORP	ENERGY SERVICES CO	COASTAL		0.001	-	<u> </u>		-	$\dot{-}$	-		-		-	-						<u></u> -
03-02-1995	SHULTZ STEEL CO .	ENERGY SERVICES CO	COASTAL		0.001			_	\dashv	-	\dashv		<u> </u>		-	-	-					<u></u>
03-02-1995	SUPERIOR INDUSTRIES INTERNAT		COASTAL		0.001		_			- 	╌┤		╧┪	∸┤		-		-				ᆜ
	SIGNAL HILL PETROLEUM INC	CHRISTINE GRANDSTAFF	COASTAL	1	0.001					-	_					-		╌┨				ᆜ
03-02-1995	CALRESOURCES LLC	SHELL WESTERN E&P INC	COASTAL	1		1.000	1.000	1.000	2.000	2.000	2.000	3 000	3 000	3 000	3 000	3 000	2 000	2 000				<u> </u>
03-02-1995	CALRESOURCES LLC 1040	SHELL WESTERN E&P, INC	COASTAL	71	-	1.000				-		5,000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	∸┤
03-01-1995	CRESCENT CRANES ING	CHRISTINE GRANDSTAFF	COASTAL	1	0.001						$\overline{}$	-	- -	-		-		╌┤			∸∔	∸┤
02-28-1995	FONTANA PAPER MILLS INC	CANTOR FITZGERALD BROKERA	COASTAL	1	0.001		0.275					-	-		\dashv			-	┵╂	∸∔	\dashv	ᆜ
	FONTANA PAPER MILLS INC	CANTOR FITZGERALD BROKERA	INLAND	1		0.113	- 1	-1		- 1					- 	-		÷		-+	- 	∸╢
02-28-1995	WAYMIRE DRUM CO,INC.,S EL MO	CANTOR FITZGERALD BROKERA	COASTAL	1	0.001	-	- 1	- 1	-	- 1		- †		<u> </u>	-			-	∸╁		┵	∸ [
02-28-1995	PARAMOUNT PETR CORP (EIS USE)	CANTOR FITZGERALD BROKERA	COASTAL	1		0.150	$\overline{\cdot}$		-1	-1		-	- 1		-				\dashv	-	-+	∸┤
02-28-1995	THE TIDES FOUNDATION	CANTOR FITZGERALD BROKERA	COASTAL	1	0.000	_		- 1	-1	- †		-+		-		- 	- 		 +	╌┼	-+	\dashv
02-27-1995	CES ENERGY ALBERHILL LTD	PACIFIC CLAY PRODUCTS INC	INLAND		0.001	_		- 1	- †	-			寸					-	-	-+	╧┼	∸
02-27-1995	CES ENERGY CORONA, LTD.	PACIFIC CLAY PRODUCTS INC	INLAND		0.001	_	- 1	-1	-	寸	-	-	-+	-1	寸	\dashv	\dashv	+	+	: 	+	\dashv
02-27-1995	US GYPSUM CO	CROWN CORK & SEAL CO INC	COASTAL		0.001				- 1	_†	寸	_		-			-	<u>-</u> -	\dashv	-+	-	- -
02-24-1995	BREA CANYON OIL CO INC	JEFFERSON SMURFIT CORPORATI	COASTAL		0.001		- 1	- 1	-1	-	-	-	.	-	_+	-+	- +		-	-	- +	\dashv
02-24-1995	BREA CANYON OIL CO INC	BREA CANYON OIL CO, ALBERT L	COASTAL	$\overline{}$	0.001			- 1	.	- †		\exists		-					- +	╌┼	┿	

AVERA									Cycle		From:	1/1//4	10	: 11/3/9			NOV	ember .	30, 199
វេរស្សភូព 🖂			of tensuences	1 r 43404			i	11.5		6.91116.6	ii (6):5;							v	
06-09-1995	O		235	450	475	500	525				100		_	-	(Yiji k	111.17	in fint	1146	
00-03-1373	P	 	 	0.1600	0.2800			550	575	2,375	4,150	5,950	5,950	5,950	5,950	5,950	5,950	5,950	5,950
06-08-1995	0	1	141	10,360	7,940	0.2900	.0.3500	· 0.7 000	0.7300	0.7600	0.9200	1.0000	1.0300	1.0700	1.1100	1.1500	1.1900	1.2400	1.3000
00-00-1777	P	 	0,4000	0.4000	0.4000	 	-	 	<u> </u>	 	 -	<u> </u>	 	 -	 		 -	<u> </u>	 -
05-22-1995	0	 	8,000	0.4000	0.4000	 	 			 	 	 	-	-	 	-	<u> </u>	 - : -	<u> </u>
	P	† -	1.0000		 		 		 	 	 	 -	 -			 	 	<u> </u>	
05-16-1995	0	 	2,400	5,000	 	 		-	<u> </u>	 	 			-		 		 -	<u> </u>
	P	1 .	0.0020	0.0800	 		-		 	H÷	 - -	 				 -	 	-	<u> </u>
04-25-1995	0	 	7,500			 	-	 	-	- : -	 			 	 	-	 	 	-
	P	 .	0.0100								 	 			 	<u> </u>	<u> </u>	 - : -	<u> </u>
03-05-1995	0	 	23,660	23,660	23,660	23,660	23,660	23,660	23,660	21,452	19,243	17.025	1000	47.00			 		-
	P	 .	0.4480	0.4480	0.4480	0.4480	0.4480	0.4480	0.4480	0.4480	0,4480	17,035 0.4480	17,035	17,035	17,035	17,035	17,035	17,035	17,035
03-01-1995	Q		250,011	56,837	56,836	56,835	56,834	56,833	56,831	56,580	56,329	56,078	0.4480	0.4480	0.4480	0.4480	0.4480	0.4480	0.4480
	P		0.2008	1.0000	1.0000	2.0000	2.0000	2.0000	3.0000	3.0000	3,0000	3.0000	56,078 3.0000	56,078 3.0000	56,078	56,078	56,078	56,078	56,078
02-27-1995	Q	.	26,721	37,000	62,000	50,000	50,000	166,000	94,000	10,000	4,000	3.0000	3.0000		3.0000	3.0000	3.0000	3.0000	3.0000
•	P		0.0010	0.1590	0.2750	0.2870	0.3500	0.6950	0.7260	0.7760	0.9230						<u> </u>	-	
01-17-1995	Q	-	7,280	7,280	7,280	7.280	7,280	7,280	7,280	6,601	5,921	5,242	5,242	5,242	5,242		*	*	
	P		0.2800	0.2800	0.2800	0.2800	0.2800	0.2800	0.2800	0.2800	0.2800	0.2800	0.2800	0.2800	0.2800	5,242	5,242	5,242	5,242
10-12-1994	Q		5,000	5,000	•	-	•	•	•	•	0.200	0.2500	0.2800	0.2000	0.2800	0.2800	0.2800	0.2800	0.2800
· · · · · · · · · · · · · · · · · · ·	P		0.2000	0.2000	-	-	•			-	-					-			
08-15-1994	Q		•	-	-	•	-	820	2,080	1,886	1,692	1,498	•		-		-	-	
	P	٠ -	•	•	•	-	-	0.7400	0.7900	0.8500	0.9150	1.0450		-				•	
07-13-1994	Q		33,132	33,132	33,132	33,132	33,132	33,132	33,132	30,041	26,947	23,856	23,856	23,856	23,856	23,856	23,856	23,856	23,856
	P		0.1600	0.1600	0.1600	0.1600	0.1600	0.1600	0.1600	0.1800	0.2000	0.2226	0.2226	0.2226	0.2226	0.2226	0.2226	0.2226	0.2226
07-06-1994	Q		9,100	9,100	9,100	9,100	9,100	9,100	9,100	8,251	7,401	6,552	6,552	6,552	6,552	6,552	6,552	6,552	6,552
	P	_	0.2100	0.2100	0.2100	0.2100	0.2100	0.2100	0.2100	0.2300	0.2600	0.2900	0.2900	0.2900	0.2900	0.2900	0.2900	0.2900	0.2900
06-30-1994	Q	<u>.</u>	15,600	15,600	15,600	15,600	15,600	15,600	15,600	14,144	12,688	11,232	11,232	11,232	11,232	11,232	11,232	11.232	11.232

NOTE:

06-28-1994

*DESCRIPTION OF SUBJECT ITEM

P

Q

0.2830

238,000

0.2830

238,000

0,3700

0,2830

238,000

0.3700

0.2830

238,000

0.3700

0.2830

238,000

0.3700

0.2830

238,000

0.3700

0.2830

238,000

0.3700

0.3120

215,866

0.3700

0.3480

193,732

0.3700

0.3930

171,360

0.3700

0.3930

171,360

0,3700

0.3930

0.3700

171,360 171,360

0.3930

0.3700

0.3930

171,360

0.3700

0.3930

171,360

0.3700

0.3930

171,360 171,360

0.3930

Q: QUANTITY (LB)

P: AVERAGE PRICE (\$/LB)

AVERAGE DAILY NOX RTC TRADING PRI

Cycle: 2

From: 1/1/94

To: ,11/3/95

November 30, 1995

							,										Ţ.		
8368 O(9)1.1			the contract of	1	1.09,900	*	rang.	ragge.	## (## (## G	A HINE	(0)ti 'at	1011	genner	······································		'i-0;';	`	::- 43 f (:::::::	f:: \\ /: : :::::
DAY 25	Q		11.52		8,710	37,500				-		HIRAMERICA	-	-	-	-	-	•	•
11-01-1995	P	- 			0.1856	0.1676	•					-	-	-			•		-
09-07-1995	Q	- -	1,500		•	•	164,680	29,860	84,600	111,931	79,261	41,592	28,090	28,090	28,090	28,090	28,090	28,090	8,090
09-07-1393	P		0.0010	_	•	-	0,2460	0.5788	0.6150	0.6150	0.7460	0.8200	0.8450	0.8450	0.8450	0.8530	0.8530	0.8530	0.8530
08-31-1995	Q	-	102,802				•	• 1		-	-			• •		-	.	•	
08-31-1393	P		0.0091			<u>:</u>	-	-	•			•		•		•	-	•	
08-30-1995	Q		600		_		-		•	•	-	-	-	•	-	•	•	-	
08-30-1373	P		0.0010		-	-	•		•	-	-	-	•	-	•	•	•	-	•
08-29-1995	Q	•	3,355,118		•	-	•	•	•		•	•	•	•	•	-	÷		
00 27-1770	P	-	0.0002	-	-	-	ę	•	•	-	•	•	-	-			•	•	•
08-28-1995	Q	-	44,130	-	-		-	-	_	•	-		•	•	-	-			•
	P		0.0000	-	-	•		•	•	•		· .	•	-	. •	•			
08-25-1995	Q		3,170	•	-	•	-	-	•		-	-		-	•	•	<u> </u>	-	<u>.</u>
	P	•	0.0100		-		•	-	•	•	-	-	-	•	-		•	•	÷
08-24-1995	0	•	900	•	•	•		_	-		<u></u>	-	•	<u> </u>	•	·	<u> </u>		<u> </u>
·	P	•	0.0100	•	•	-	-	• .	-			-		-	•	<u> </u>		•	<u> </u>
08-23-1995	Q	•	12,990	30,000	-	•	_ •		-		<u> </u>	-	•	•	•	<u> </u>			
	P	•	0.0065	0.1600	-		-	•	<u>:</u>		<u>. </u>	· -		•	-			<u> </u>	<u> </u>
08-22-1995	Q	•	100	•	-		-	-			· ·	•	•	• •	-	<u> </u>			
	P	•	0.0100	•	-					<u> </u>	<u> </u>		•	•	•	<u> </u>			
08-21-1995	Q	-	3,628	•	•		_ •	-	-	<u> </u>	<u> </u>	•	•	•	•	-	• •		•
	P	٠.	0.0001	<u> </u>	<u></u>				-		<u> </u>	-		•			-	<u> </u>	-
08-18-1995	Q		4,000	-	-	-		-								<u> </u>	- -		
	P		0.0100		-			-			-	<u> </u>	<u> </u>		-		-	-	
08-09-1995	Q	-	800		-			•		· •	<u> </u>	<u> </u>				- -	<u> </u>	-	
	P .	•	0.0001	<u>•</u>	-	<u> </u>			<u> </u>	<u> </u>	<u> </u>			-	-	-		•	
08-08-1995	Q	-	9,370	<u> </u>	-		-	•	•	<u> </u>	<u> </u>		-		-	<u> </u>		 -	<u> </u>
	P	•	0.0000		-	-	*	-		010 405	-		040.000	240.086	240.000	240.006	249,086	249,086	249,086
08-02-1995	Q	-	883,957	775,527	686,686	607,365	520,104	432,843	345,582	313,496	281,410	249,086	249,086	249,086	249,086	249,086			1.0000
	P		0.0015	0.1571	0.2700	0.2800	0.3500	0.6500	0.7000	0.7500	0.8500	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
07-27-1995	Q	<u> </u>	1,520,000		-	<u> </u>		•				-	 -				-		
	P		0.0001		-		<u>-</u>			 	┝┷	-		•		- : -			
07-11-1995	Q	-	7,447		-	-	. •	•		 -	 				-	 	 -		
	P	• .	0.0005		<u> </u>		-	<u> </u>	L	<u> </u>	<u> </u>	<u> </u>			<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

NOTE:

*DESCRIPTION OF SUBJECT ITEM

Q: QUANTITY (LB)
P: AVERAGE PRICE (\$4.B)

AVERA(GE DA	ILY N	OX R'	TC TI	RADII	NG PR	RICE		Cycle	: 1	From;	1/1/94	To	: 11/3/9	5		Nov	ember	30, 199
igas ojanists.	dice		1773	(1 (Peys)	1555	(G)	1935	i din	: {\c} (c) = 10)1	skunge. Fære	11 (3) 1 - 7/15	14:15 11001	* 1/5;	i tili	¥1,57): 1) }:	1.5	y.	
02-23-1995	. Q	46,260	 	 	-	-	•	·	·	-			-		-	-		-	-
	P	0.0010	 		<u> </u>	 	<u> </u>	<u> </u>	<u> </u>	<u> </u>			•		٠.	1	-		
02-16-1995	Q	6,000	<u> </u>	<u> </u>	<u> </u>		 	<u> </u>	<u> </u>	<u> </u>	_				T :	1	T .	 	
	P	0.0130	<u> </u>		<u> </u>	-	<u> </u>	<u> </u>	1 .	<u> </u>	-				1 .	1 -	1.	1	
02-06-1995	Q	<u> </u>	1,483,941	15,400	<u> </u>	-	-	_						1.		†	1 :	 	
	P	 -	0.9917	0.1250				<u> </u>			-	-	T .	 	<u> </u>	 	 	 	
02-05-1995	Q	-	350,000	•		•					-			 . 	 	 	 	 	
	P		0.1500	-						-	T .		<u> </u>	 	 	 	 	 	
01-19-1995	Q	6,000	•					<u> </u>				<u> </u>		 	 	 	 	 -	
	P [']	0.0100	-	-			-	·		·	 	 	 	 	 	 		-	
12-15-1994	Q	1,000	-	-							 -			 	 	├	 		
	P	0.3200	•	•		-	-			<u> </u>			 	 	 				
12-09-1994	Q	4,000		•	-			-					 	 		 	<u> </u>	 -	 -
	P	0.0130	•	•	•				<u> </u>	<u> </u>	<u> </u>	 	- -	 	 	 		┝╌	 -
08-15-1994	Q	51,500	52,700	2,500	•								 	 		 - -		 	ļ <u> </u>
	P	0.0010	0.1670	0.2870	. •	-				-		 					 -	 	 -:
07-28-1994	Q	356	356	356	356	356	356	356	321	. 290	255	255	255	255	255	255			
	P	0.2100	0.2100	0.2100	0.2100	0.2100	0.2100	0.2100	0.2300	0.2600	0.2900	0.2900	0.2900	0.2900	0.2900		255	255	<u> </u>
06-03-1994	Q	500		-	•		-	•	•	-		3.200	0.2500	0.2500		0.2900	0.2900	0.2900	<u> </u>
	P	0.5000	-	•	-	-	-		-	•	-	-			-			 	
03-22-1994	Q	600		-	•	•				-					-		<u> </u>	 -	
	P	0.9167	-	•	-	•			_										

NOTE: *DESCRIPTION OF SUBJECT ITEM Q: QUANTITY (LB) P: AVERAGE PRICE (\$/LB)

AVERA	GE DA	ILY N	IOX R	TC TI	RADII	VG PR	RICE		Cycle	: 1	From:	1/1/94	To	: 11/3/9	5 		Nov	ember :	30, 199
(8.7. a) (8.7. t) (1 7.3)	21850	[[[[]]	(1 <u>2</u> 37):	1 1520	11027	(635)	1 ES 1	e ክኒጥ።	* (2) (5 (7) (7)	:400 :4114		!v. i? <u>}</u>	***161E	Y	900	0(17,025)(of trace	2727	
11-01-1995	Q	•	349,285	6,110	3,000	-	-			-	-		-		-				
	P		0.0218	0.1610	0.2245] .			-				T .	 	1 .	 	+	
10-20-1995	Q	_	22	-					-	1	-	-		1 .	1 .	 	 	 	
	P		0.1600				_		-		-	-	 	-	 	 	 	 	
09-08-1995	Q	-	18,415	•		-	-	- 1		-	1 -			<u> </u>	 	1	 	 	
	. P	•	0.0890	•			-				1		· .		 	 		 	
09-07-1995	Q	•		•	•		501,029	482,958	436,700	390,452	344,203	364,203	364,203	364,203	364,203	364,203	364,203	364,203	 ` -
	P	<u> </u>	<u> </u>	<u> </u>	-		0.4100	0.5950	0.6150	0.6810	0.7830	0.8320	0.8450	0.8450	0.8490	0.8530	0.8530	0.8530	
08-28-1995	Q	-	6,000	10	10	10	30	20	-		_ · _	-	-] _	-		1.	
	P	<u> </u>	0.0116	0.3456	0.3980	0.5773	. 0.7467	0.9493	-	-					-		 	 	
08-22-1995	Q	<u> </u>	4,000				-	-						-	-	-	<u> </u>	 	
	P	<u> </u>	0.0250	<u> </u>		<u> </u>		-	-				-			 .		 	
08-21-1995	Q	<u> </u>	-	•	20,000	20,000	20,000	20,000	20,000	20,000	20,000			-	-		-	-	
	P	-	<u> </u>	<u> </u>	0.5000	0.5000	0.5000	0.5000	0.5000	0.5000	0.5000		-					<u> </u>	
08-02-1995	Q	<u> </u>	10,000	<u> </u>	-	-	-					-			•	-		<u> </u>	
	P	<u> </u>	0.0173		-	<u> </u>	-	-		-	-		-	-	-		·	-	
08-01-1995	Q		<u> </u>	<u> </u>	•	-	1,000	10,000	-	<u> </u>			•	•	-			-	
	P	· -	<u> </u>		<u></u>	<u> </u>	0.7467	0.9493		-	<u> </u>	-		-					
07-27-1995	Q	-	5,000		•	<u> </u>	•	8,000	8,000		<u> </u>	<u> </u>		-			•		
	P	<u> </u>	0.0173		-		<u> </u>	0.9493	1.1480	-		-		<u>.</u> .			•	-	
07-12-1995	<u> </u>	<u>:</u>	120,000	-	•		-	-	•	-	•	· <u> </u>	•		-	-		_	-
07.07.1007	P	<u> </u>	0.0070	-		*			-	-	-	•			-			-	•
05-25-1995	<u> </u>	 •	-	. •	13,200	16,800	20,400	24,000	-	•	•	•	•	-	• .	•			•
04-17-1995	P Q	 -	100		0.2500	0.3750	0.6250	0.8750			-	-	:		_ · ·	-			-
V7-1 /-1773	P P		0.1100	-		-			-	-	-			<u> </u>	•			•	•
03-01-1995	Q	269,857	1,908,741	1,803,084	1,715,627	1 610 770	1 100 010	1 401 046	1 075 020		-	-			-				
03-01-1773	P	0.4806	1.0006	1,803,084	1,713,627	2.0000	1,509,913 2,0000	1,407,056 2.0000		1,145,023 3.0000		1,014,006 3.0000						1,014,006	
	K.	U.70VU	I JUUUU I	1.0000	1.0000	4.0000	2.0000	2.0HXXI 1	3.0000	a nanna l	3.0000	3 // በበበር የ	3.0000	3.0000	3.0000	3.0000	3.0000	3.0000	

NOTE:

02-27-1995

02-26-1995

*DESCRIPTION OF SUBJECT ITEM

P

Q

Q

0.0010

3,712 0.0010

2,934,686 350,000 0.0000

0.1130

0.1500

0.2750

Q: QUANTITY (LB)

P: AVERAGE PRICE (\$/LB)

Facility ID
Facility Name
City and County

SIC Pollutant(s) Cycle Job Gain

Fletcher Oil & Refining Co Carson, Los Angeles County 2911 SOx, NOx

Job Gain 0
Job Loss 8 (8 a

8 (8 attributed to RECLAIM)
This facility closed before RECLAIM was adopted. The facility attributed the job losses to a shutdown intended to avoid the cost of CEMS installation of the facility's single major source.
However, an AQMD engineer familiar with the facility observed that the major source is already equipped with a CEMS which could be brought into compliance with RECLAIM requirements without being too costly. Additionally, the economy has adversely impacted the facility.

Facility ID 800208
Facility Name Paper Pak Products
City and County La Verne, Los Angeles County
SIC 2823
Pollutant(s) NOx
Cycle 2
Job Gain 0
Job Loss 25 (6 attributed to RECLAIM)

Job Loss

25 (6 attributed to RECLAIM)

Comments: The facility attributes six lost jobs to the approximately \$250,000

spent on CEMS. However, the facility representative pointed out that they did not factor in the "gains" associated with RECLAIM, as compared with the requirements to which the facility would be

subject in the absence of RECLAIM.

APPENDIX G

QUARTERLY EMISSION MAPS

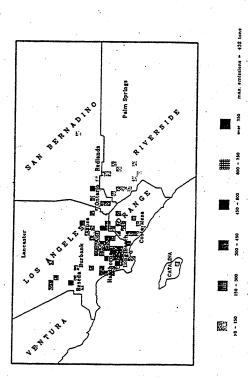
As discussed in Chapter 8, this appendix provides the quarterly maps of NOx and SOx emissions from RECLAIM facilities for each quarter from January 1994 through June 1995.

It should be noted that, in accordance with the compliance schedule of RECLAIM, the first two quarters of 1994 include Cycle 1 facility emissions only. The subsequent maps include both Cycle 1 and Cycle 2 facilities.

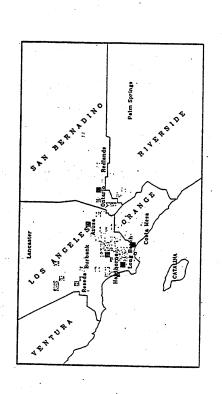
These maps are preliminary and subject to revision pending additional quality assurance review.

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RECLAIM Facilities Certified NOx Emissions (Tons) From 1/94 To 3/94

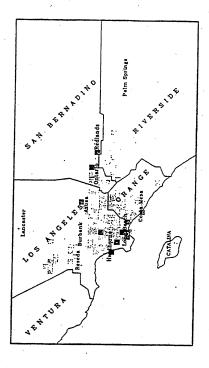


RECLAIM Facilities Certified NOx Emissions (Tons) From 4/94 To 6/94



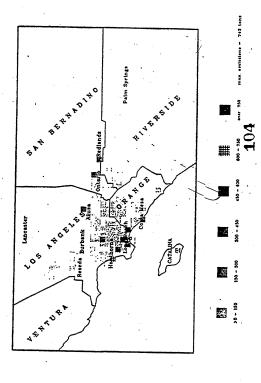
RECLAIM Facilities

Certified NOx Emissions (Tons) From 7/94 To 9/94

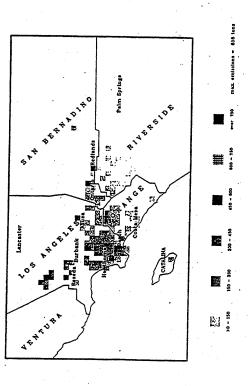


RECLAIM Facilities

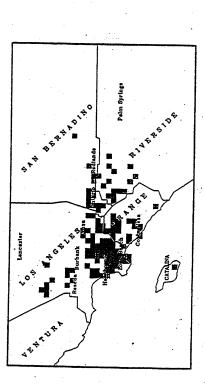
Certified NOx Emissions (Tons) From 10/94 To 12/94



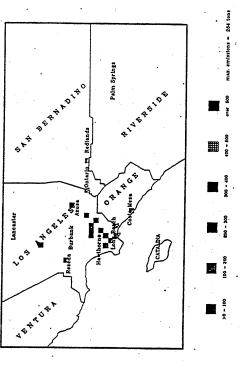
RECLAIM Facilities Certified NOx Emissions (Tons) From 1/95 To 3/95



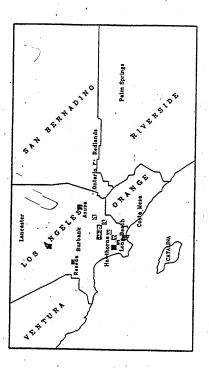
RECLAIM Facilities Certified NOx Emissions (Tons) From 4/95 To 6/95



RECLAIM Facilities Certified SOx Emissions (Tons) From 1/94 To 3/94



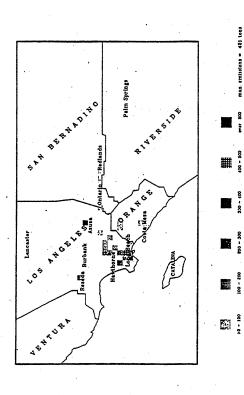
RECLAIM Facilities Certified SOx Emissions (Tons) From 4/94 To 6/94



105

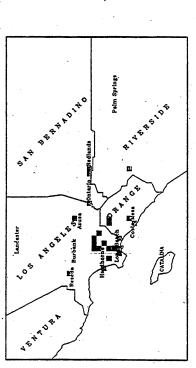
RECLAIM Facilities

Certified SOx Emissions (Tons) From 7/94 To 9/94



RECLAIM Facilities

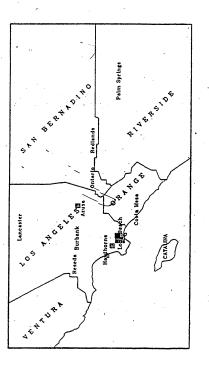
Certified SOx Emissions (Tons) From 10/94 To 12/94



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RECLAIM Facilities

Certified SOx Emissions (Tons) From 1/95 To 3/95

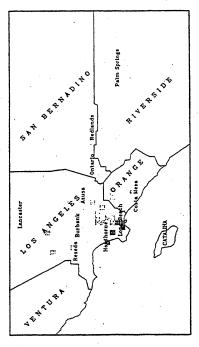


RECLAIM Facilities

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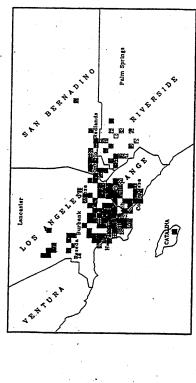
Certified SOx Emissions (Tons) From 4/95 To 8/95





INITIAL ALLOCATIONS

1994 NOx RTC



As discussed in Chapter 8, this appendix contains maps of the geographic distributions of initial allocations and certified emissions from RECLAIM facilities for the first compliance year for both NOx and SOx. The certified emissions maps combine emissions data for

These maps show that in each geographic sector, reported emissions from RECLAIM

both Cycles 1 and 2.

facilities were in the same or a lower range than the allocated emissions for the first compliance year. The maps do not appear to show any distinct geographic shift in emissions. The AQMD will continue to assess the geographic pattern of emissions as

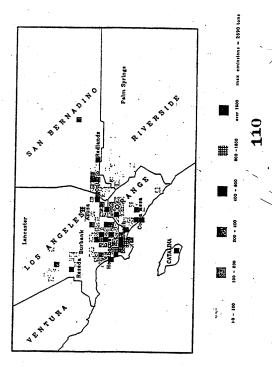
additional data becomes available.

ANNUAL EMISSION AND ALLOCATION MAPS

APPENDIX H

RECLAIM Facilities

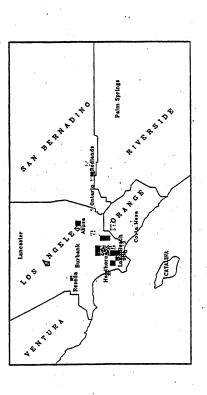
Certified Nox Emissions -- First Compliance Year



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INITIAL ALLOCATIONS

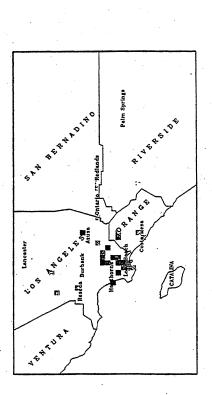
1994 SOx RTC



RECLAIM Facilities

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Certified SOx Emissions -- First Compliance Year



APPENDIX I

RECLAIM RTC TRADING SUMMARY REPORT

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82 - 88

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