

County of Santa Cruz

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OFFICE OF THE AGRICULTURAL, COMMISSIONER

DAVID W. MOELLER
AGRICULTURAL COMMISSIONER
SEALER OF WEIGHTS AND MEASURES
DIRECTOR, MOSQUITO AND VECTOR CONTROL

July 21, 1999

Agenda: August 3, 1999

BOARD OF SUPERVISORS

County of Santa Cruz
701 Ocean Street
Santa Cruz, CA 95060

Resolution Supporting Sponsorship of the Application for Funds from the AB2766 Motor Vehicle Emission Reduction Grant Program for Low Pollution Agricultural Engines

Dear Members of the Board:

On June 23, 1998, your Board approved the Agricultural Commissioner's participation as sponsor of a grant application for funds appropriated by AB 2766 (California Motor Vehicle Emission Reduction Program) which are distributed annually through the Monterey Bay Unified Air Pollution Control District (APCD) for local projects that will contribute towards the reduction of air pollutants. As you will recall, the grant proposal we sponsored – a project developed by Ryerson, Master and Associates (RMA) of Santa Barbara to implement a 2-year program to reduce emissions from agricultural engines – was approved by the APCD Board last year, a grant award of \$83,000 was received, and the necessary operational agreements and contract have recently been signed and the project is about to be launched.

This year RMA submitted another grant application proposal to the APCD for \$75,438 of FY 1999-2000 AB 2766 funds to supplement and extend until February 2002 our current low pollution agricultural engine project so that additional engines can be converted to low pollution technology. This proposal is virtually identical to the one your Board supported and approved our participation in last year, only the dollar amount has changed.

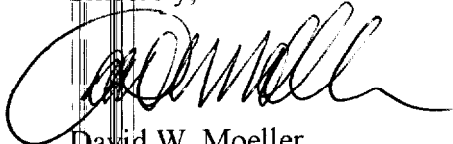
The APCD has just released their summary and draft evaluations of FY 1999-2000 AB 2766 grant applications which they received for this year's grant program. Of the forty-two applications submitted, ours has the best cost effectiveness rating (expressed in dollars per ton of emissions reduced)

The APCD Board of Directors is currently scheduled to meet on August 18, 1999 to review all applications for AB 2766 funds and make final decisions on funding allocations. We believe your Board again expressing its support of our project by adopting a resolution to that effect will significantly improve our chances of success to receive additional funding for our engine modification demonstration project.

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It is therefore RECOMMENDED that your Board adopt a resolution supporting the Agricultural Commissioner's sponsorship of a grant application for additional funds from the FY 1999-2000 AB 2766 Motor Vehicle Emission Reduction Grant Program for Low Pollution Agricultural Engines and upon an award of such grant authorizing the Santa Cruz County Agricultural Commissioner to commence negotiations with the Monterey Bay Air Pollution Control District for a grant agreement and for operational agreements and contract to carry out the Demonstration Project.

Sincerely,



David W. Moeller
Agricultural Commissioner

Approved:


SUSANA MACCHELLO
COUNTY ADMINISTRATIVE OFFICER

Attachments:

Grant Application
Resolution

cc: Ryerson, Master and Associates, Inc.
Santa Cruz County Farm Bureau

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BEFORE THE BOARD OF SUPERVISORS
OF THE COUNTY OF SANTA CRUZ, STATE OF CALIFORNIA

RESOLUTION NO.

On the motion of Supervisor
duly seconded by Supervisor
the following resolution is adopted

RESOLUTION SUPPORTING SPONSORSHIP OF THE APPLICATION FOR FUNDS
FROM THE AB 2766 MOTOR VEHICLE EMISSION REDUCTION GRANT
PROGRAM FOR LOW POLLUTION AGRICULTURAL ENGINES

WHEREAS, Assembly Bill 2766 was passed by the California State Legislature and signed into law by the Governor in 1990 and is now part of the California Health and Safety Code, Sections 44220-44247; and

WHEREAS, AB 2766 authorizes air pollution control districts to use these registration surcharge fees to fund projects which reduce air pollution from motor vehicles and for related planning, monitoring, enforcement and technical studies that implement the California Clean Air Act of 1988, and

WHEREAS, the Monterey Bay Unified Air Pollution Control District will consider grant applications for such projects and Ryerson, Master and Associates; Inc. has applied for additional funds totaling \$75,438.00 to supplement an existing Santa Cruz County Demonstration Project (Low Pollution Agricultural Engines) in which Demonstration Project the Santa Cruz County Agricultural Commissioner will continue as grant recipient and Ryerson, Master and Associates as grant manager; and

WHEREAS, the Santa Cruz County Agricultural Commissioner advises that the Ryerson, Master and Associates, Inc. proposal to expand the Demonstration Project would increase the benefits to the local agricultural community;

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF SUPERVISORS of the COUNTY OF SANTA CRUZ:

1. The Agricultural Commissioner is authorized on behalf of the County of Santa Cruz to sponsor the Ryerson, Master and Associates, Inc. grant application for additional funds as described above by informing the Monterey Bay United Air Pollution Control District Board of its endorsement thereof,

2. Upon an award of such grant the Santa Cruz County Agricultural Commissioner is authorized to commence negotiations with the Monterey Bay Unified Air Pollution Control District and the firm of Ryerson, Master and Associates, Inc. for a grant agreement and for operational agreements and contract to carry out the Demonstration Project.

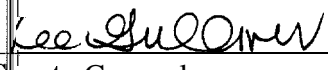
PASSED AND ADOPTED by the Board of Supervisors of the County of Santa Cruz, State of California, this o day f _____, 1999 by the following vote:

AYES::	SUPERVISORS
NOES:	SUPERVISORS
ABSENT:	SUPERVISORS
ABSTAIN:	SUPERVISORS

Chairman of the Board of Supervisors

ATTEST: _____
Clerk of the Board

Approved as to form:



County Counsel

DISTRIBUTION: County Counsel

**MONTEREY BAY UNIFIED AIR POLLUTION CONTROL DISTRICT
MOTOR VEHICLE EMISSIONS REDUCTION GRANT PROGRAM**

**SANTA CRUZ COUNTY
LOW POLLUTION AGRICULTURAL ENGINES**

Grant Application Submitted By

**OFFICE OF THE AGRICULTURAL COMMISSIONER
SANTA CRUZ COUNTY
and
RYERSON, MASTER AND ASSOCIATES, INC.**

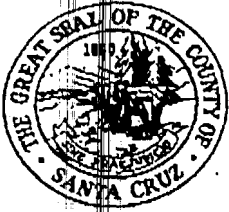
May 29, 1999

Submitted To: Mr. Doug Quetin
Air Pollution Control Officer
Monterey Bay Unified APCD

Contacts:

Mr. William Master
Ryerson, Master and Assoc.
735 State Street, #209
Santa Barbara, CA 93101
Ph. (805) 730-1338
Fax (805) 730-1341

Mr. David Moeller
Agricultural Commissioner
Santa Cruz County
175 Westridge Drive
Watsonville, CA 95076
(831) 763-8080



County of Santa Cruz

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OFFICE OF THE AGRICULTURAL COMMISSIONER

DAVID W. MOELLER
 AGRICULTURAL COMMISSIONER
 SEALER OF WEIGHTS AND MEASURES
 DIRECTOR, MOSQUITO AND VECTOR CONTROL

May 12, 1999

Mr. Douglas Quetin
 Air Pollution Control Officer
 Monterey Bay Unified APCD
 24580 Silver Cloud Court
 Monterey, CA 93940

Low Pollution Agricultural Engines Motor Vehicle Emissions Reduction Grant Program Application

Dear Doug:

The Santa Cruz County Agricultural Commissioner's Office is pleased to submit this grant request to reduce pollution from diesel engines used in agriculture and earth moving equipment. We are very excited about our ongoing project to reduce air pollution from these engines. We are requesting grant funds to expand the program to include additional engines.

This project will achieve real, quantifiable emission reductions. Older diesel engines will be converted using modern engine technology, which is less polluting and more energy efficient.

This demonstration project has the following advantages:

- Substantial pollution reduction will be achieved at low cost to the Motor Vehicle Emissions Reduction Grant Program
- Advanced technology will be demonstrated which can be used to reduce pollution from hundreds of other agricultural and earth moving vehicles operating in the air basin
- Agricultural industry costs will be reduced for the operation and maintenance of vehicles
- Private industry development of low pollution technology will be stimulated

Thank you for your consideration of this application. Please contact me at 831-763-8080 or Bill Master at 805-730-1338 if you have any questions about this application.

Sincerely,

David W. Moeller
 Agricultural Commissioner

cc: Bill Master • Ryerson, Master & Associates

175 WESTRIDGE DRIVE, WATSONVILLE, CALIFORNIA 95076 TELEPHONE (831) 763-8080 FAX (831) 763-8234

PROJECT TIMING The approximate schedule for the project is as follows:

August 1999	District Board approval of Grant
September 1999	Grant Agreement executed
February 2000	Start of project
March 2000	First group of engines selected for conversion
July 2000	<u>Emission reductions begin</u>
February 2001	Second group of engines selected for conversion
August 2001	All engines conversions complete
February 2002	All grant funds expended

PROJECT COSTS

The project costs are described on the attached forms. Grant funds in the amount of \$75,438 will be used to accomplish these emission reductions. The overall cost effectiveness of the project is estimated at \$1980 per ton. The grant funds will be supplemented by substantial contributions from the equipment owners toward the purchase, installation and operation of the low pollution equipment.

Ryerson, Master and Associates, Inc. (RMA) will manage the project for the Agricultural Commissioner's Office, and will be responsible for identifying the engines for inclusion in the program, providing information to the engine owners on the range of qualifying technology and potential vendors, collecting the required engine data, and preparing the reports for the Air District. The Office of the Agricultural Commissioner will approve all engine conversions included in the project.

Quarterly invoices will be submitted to the Air District. The invoices will cover the costs specified in purchase orders executed during the quarter and RMA costs incurred during the quarter. To ensure the project proceeds smoothly, payment by the Air District within 30 days of receipt of the invoice is needed. This process will ensure that the required funds are available to pay for the engine conversions upon delivery. The applicants assume that the funding provisions contained in Attachment 2 of the prior Grant Acceptance Agreement (#99-42) will also apply to this project.

MONITORING PROGRAM

Monitoring data will be collected during the program, including approximate fuel use and maintenance data. A report describing the success of the project will be provided to the Air District at the end of the project.

EMISSION CALCULATIONS

Total emission reductions of 38.1 tons of pollution are anticipated from this project. This value represents the difference between the emissions from the existing diesel engines and the installation of low-pollution engines. The actual emission reductions could be substantially higher, depending on the total number of engines converted and the effectiveness of each engine conversion.

These emission reductions are based on calculations performed by Air District personnel which were the basis of the prior grant. In addition to the NOx reductions shown below, additional reductions in ROC and PM are anticipated. A greater level of NOx reductions may also be achieved as the baseline engine NOx values may be considerably higher based on Air District supplied default emission values.

Conversion of tractor and dozer engines:

Original Engine	12.0 g/bhp-hr NOx
Converted Engine	6.5 g/bhp-hr NOx
Emissions Savings	5.5 g/bhp-hr NOx

Tons of Pollution Eliminated

$5.5 \text{ g/bhp-hr NOx} \times 140 \text{ Ave. hp} \times 15,000 \text{ hrs.} / 908,000 = 12.7 \text{ tons}$

$12.7 \text{ tons} \times 3 \text{ engines} = 38.1 \text{ tons}$

Total Cost Effectiveness:

$\$75,438 / 38.1 \text{ tons} = \1980 per ton

A number of factors will affect the estimated amount of emission reductions achieved. These factors include the optimal engine technology, the size and number of engines converted, the average engine loads experienced, and the overall life of the engines.

ATTACHMENT 1 - PROJECT DESCRIPTION
FY 1999-2000 AB 2766 Motor Vehicle Emissions Reduction Grant Program

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- A. **Public Agency Grant Applicant:** Office of the Agricultural Commissioner, County of Santa Cruz
 B. **Grant Acceptance Agreement Date:** Not applicable until grant is awarded

C. **Budget:** Total Project Amount: \$ 75,438
 Current AB 2766 Grant Request \$ 75,438

D. **Project Title:** Santa Cruz County Agricultural Engine Conversions,

E. **Project Schedule:** Start Date: Feb 28, 2000 End Date: Feb 28, 2002

F. **Activities:** *Describe AB2766 Grant funded project activities:*

Activity 1: Purchase and install low pollution engines (purchase order costs)

Activity 2: Engine selection, technology configuration, location of participants, location of suitable vendors, collection of required data and other engineering and management activities (td be performed by Ryerson, Master and Associates, Inc.)

Table F. Grant Activity by Period

Type of Period: Quarter: ___ Semester: ___ Year: X
Show only A32766 grant funds in the following table:

	<u>1st Period</u>	<u>2nd Period</u>	<u>3rd Period</u>	<u>4th Period</u>
<u>Activity #</u>	<u>Ends 2/01</u>	<u>Ends 2/02</u>	<u>Ends ____</u>	<u>Ends 6/30/____</u>
1.	<u>\$28,290</u>	<u>\$28,290</u>	<u>\$</u>	<u>_____</u>
2.	<u>\$ 9,429</u>	<u>\$9,429</u>	<u>\$</u>	<u>_____</u>
3.	<u>\$</u>	<u>\$</u>	<u>\$</u>	<u>\$</u>
4.	<u>\$</u>	<u>\$</u>	<u>\$</u>	<u>\$</u>
Total	<u>\$37,719</u>	<u>\$37,719</u>	<u>\$</u>	<u>\$</u>

Grantee may shift funding between periods as needed to meet project objectives.

G. Total Project Budget:

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Table G.	AB2766 Grant Request	Other Secured Funds	Other Unsecured	Project Total
Equipment	\$56,580	\$ See note	\$56,580	
Other capital	\$	\$ See note	\$	
Personnel	\$18,858	\$ 1	\$, 8	5 8
Other operating	\$	\$	\$	\$
Grant Administration	\$ XXXXX	\$	\$	\$
Total	\$75,438	\$ See note	\$	\$75,438

Status Notes: Equipment includes all costs covered in equipment vendor purchase orders. Personnel includes all costs to be incurred by Ryerson, Master and Associates, Inc. Other secured funds: contributions are anticipated by engine operators to support the purchase, installation or operation of the low pollution engines.

H. Status of Other Funding Sources:

	Funding Source	Amount	S	U	P
1.	Engine Owners / Operators	\$ Various			
2.		\$			
3.		\$			
4.		\$			
5.		\$			
	Total	\$			

S = Secured funds: Available by September 1, 1999 or guaranteed within FY 1999-2000.

U = Unsecured funds: To be applied for and availability unsure.

P = Previously awarded AB 2766 funding available for this project.

I. Monitoring Program:

12. Travel or other activity measurements to be collected:
 - Measure 1 Engine hours operated (or fuel type and approximate amount consumed)
 - Measure 2 Rated engine Bhp (SAE); make, model, year and serial number
 - Measure 3 Engine maintenance and repair records
 - Measure 4
13. Type of Data Collection (Counts, surveys, logs, etc.): Inspection, approximated fuel consumption, engine repair records.
14. Frequency and source of collection for each measure: All data will be collected and reported for the "before" or baseline condition and after one year of operation. All data after one year of operation will be collected and stored until project completion. All data will be made available for inspection by District staff on request.

J. Grantee Contacts:

Program or Project Manager

Requests for Reimbursement

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Name: David Moeller

Name: Same

Telephone: (831) 763-8080

Telephone: _____

Fax: (831) 763-8234

Fax: _____

E-Mail: _____

E-Mail: _____

K. Emissions and Cost Effectiveness Calculations:

Leave blank. Entries will be separately calculated by District staff:

- | | | | |
|----|------------------------------|------------------|--|
| 1. | Useful Life of Project : | <u>15,000</u> | Engine hours on each converted engine |
| 2. | AB2766 Grant Request: | <u>\$ 75,438</u> | |
| 3. | Total Tons over Useful Life: | <u>38.1</u> | Tons, Sum of NOx, ROG and PM,,, |
| 4. | Cost Effectiveness | <u>\$ 1,980</u> | Request \$ / Total Tons average, all conversions |

ATTACHMENT 1A - PROJECT NARRATIVE
FY 1999-2000 AB 2766 Motor Vehicle Emissions Reduction Grant Program

Project Title Santa Cruz County Agricultural Engine Conversions

Grantee Agency Office of the Agricultural Commissioner, County of Santa Cruz

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Recent advances in technology provide the opportunity to substantially reduce air pollution from diesel engines. This project will demonstrate the application of advanced, low-pollution technology in diesel engines used in agricultural and earth moving equipment. Pollution reductions will be achieved through the use of the most cost effective combination of turbocharging, aftercooling, electronic controls, timing optimization, electrification, and alternative fuels. Installation of this technology will be achieved through engine retrofits, engine reppwers or replacement of old equipment with new equipment. The program may include a variety of agricultural and earth moving equipment, including tractors, harvesters and dozers.

Ryerson, Mater and Associates, Inc. (RMA) will manage the project for the Grantee, and will be responsible for identifying the engines for inclusion in the program, providing information to the engine owners on the range of qualifying technology and potential vendors, assembling the required engine data, and preparing the reports for the Air District. The Agricultural Commissioner's Office will approve all engine conversions included in the project. Invoices will be submitted to the Air District. The invoices will cover the costs specified in purchase orders and RMA costs incurred during the prior quarter.

ATTACHMENT 1B -PROGRAM CRITERIA CHECKLIST
FY 1999-2000 AB 2766 Motor Vehicle Emissions Reduction Grant Program

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Project Title Santa Cruz County Agricultural Engine Conversions

Grantee Agency Office of the Agricultural Commissioner, County of Santa Cruz

PROJECT TYPE: *Instructions: One or more of the following project types must be checked.*

☐ **DEMONSTRATION PROJECT** - Testing or demonstration of facilities, equipment, methods and/or procedures that could lead to motor vehicle emissions reduction.

☐ **EDUCATION PROJECT** - Education, public information and policy or regulatory projects.

☐ **INFRASTRUCTURE PROJECT** - Infrastructure facilities, equipment and/ or services which will enable emission reductions.

☒ **EMISSIONS REDUCING PROJECT** - Quantifiable mobile source emissions will occur within five years as a result of this project.

TIER I CRITERIA: *Instructions: Check ALL the following criteria that apply. Criteria 1-10 must be met by all projects, and Criterion 11 must be met by "cleaner engine" projects.*

1. ☒ Project will result in actions needed to implement the California Clean Air Act (as amended in 1992) and/or achieve emission reductions to meet requirements of Health & Safety Code §44220 to 44247.
2. ☒ Projects will be implemented within the North Central Coast Air Basin.
3. ☒ Application is complete, in a format acceptable to the District and has been submitted during the application period.
4. ☒ This application requests no more than \$200,000 in AB2766 funds in this grant year, or if a bicycle path project -- not more than \$100,000 in this grant year.
5. ☒ Applicant is a public agency who will sign a Grant Acceptance Agreement to implement and maintain the proposed project for its useful life. (Project may be implemented by private individual, corporation, or entity under contractual agreement with applicant, with that public agency's formal resolution of support).
6. ☒ The project proposal indicates that the project will be operational and/or providing emissions reductions within five years of the grant award date.

7. ☒ This project is consistent with a comprehensive, targeted program to either reduce overall mobile source emissions or reduce the use of the single occupant vehicle as included in, or consistent **with** adopted state, regional or local plans. The project proposed must be consistent with **the policy** direction of the relevant plan, listed below, even if that plan does not specifically list the proposed project:
-
-
-
8. ☒ Applicant has provided information and assumptions **sufficient** for District staff to assess project mobile source emission reductions for ROG, NO_x, and PM₁₀, (including entrained dust), as well as VMT reductions over the useful life of the project
9. ☒ Project proposal does not include any funds for preparation of application, preliminary work related to obtaining a grant, or for project administration if awarded a grant.
10. ☒ Project proposal **clearly** indicates all contributors to the project, and identifies secure funds as those affirmed by a formal action of a policy board with the authority to commit those funds to the project.
11. ☒ If proposal includes retrofit, engine repower or purchase of new vehicle , project engine will meet or exceed approved California Air Resource Board standards for engines and vehicle classes applicable to the midpoint year of the project's useful life.

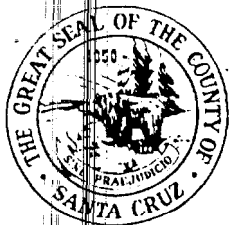
TIER II CRITERIA: *Instructions: ONLY for projects previously awarded AB2766 grant funds. Check all that apply. All criteria must be met for such projects.*

1. ☒ The proposed new grant funded activity is consistent with the prior Grant Acceptance Agreement(s).
2. ☒ This grant would fund an activity or phase **that** is separate and distinct from all work previously funded with **AB2766 grant funds**.
3. ☒ Any emissions reductions claimed for prior grant awards for this project **will** occur within five years of the date of **first** grant award for this project.
4. ☒ Any emissions or VMT reductions claimed for prior grant awards for this project are not also claimed in this request.

5.

Prior AI32766 grant awards are not included in the amount of other secured funds leveraged in project scoring.

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County of Santa Cruz

OFFICE OF THE AGRICULTURAL COMMISSIONER

DAVID W. MOELLER
AGRICULTURAL COMMISSIONER
SEALER OF WEIGHTS AND MEASURES
DIRECTOR, MOSQUITO AND VECTOR CONTROL

July 21, 1999

Agenda: August 3, 1999

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County of Santa Cruz
701 Ocean Street
Santa Cruz, CA 95060

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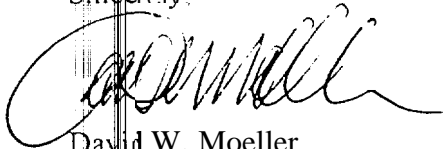
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Sincerely,



David W. Moeller
Agricultural Commissioner

Approved: _____

SUSAN A. MAURIELLO
COUNTY ADMINISTRATIVE OFFICER

Attachments:

Grant Application
Resolution

cc: Ryerson, Master and Associates, Inc
Santa Cruz County Farm Bureau

BEFORE THE BOARD OF SUPERVISORS
OF THE COUNTY OF SANTA CRUZ, STATE OF CALIFORNIA

RESOLUTION NO.

On the motion of Supervisor
duly seconded by Supervisor
the following resolution is adopted

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FROM THE AB 2766 MOTOR VEHICLE EMISSION REDUCTION GRANT
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WHEREAS, the Santa Cruz County Agricultural Commissioner advises that the Ryerson, Master and Associates, Inc. proposal to expand the Demonstration Project would increase the benefits to the local agricultural community;

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF SUPERVISORS of the COUNTY OF SANTA CRUZ:

1. The Agricultural Commissioner is authorized on behalf of the County of Santa Cruz to sponsor the Ryerson, Master and Associates, Inc. grant application for additional funds as described above by informing the Monterey Bay Unified Air Pollution Control District Board of its endorsement thereof,

2. Upon an award of such grant the Santa Cruz County Agricultural Commissioner is authorized to commence negotiations with the Monterey Bay Unified Air Pollution Control District and the firm of Ryerson, Master and Associates, Inc. for a grant agreement and for operational agreements **and** contract to carry out the Demonstration Project.

PASSED AND ADOPTED by the Board of Supervisors of the County of Santa Cruz, State of California, this ____ day of _____, 1999 by the following vote:

AYES::	SUPERVISORS
NOES:	SUPERVISORS
ABSENT:	SUPERVISORS
ABSTAIN:	SUPERVISORS

Chairman of the Board of Supervisors

ATTEST: _____
Clerk of the Board

Approved as to form:

JANE M. SCOTT
Assistant County Counsel

DISTRIBUTION: County Counsel