



# County of Santa Cruz

## GENERAL SERVICES DEPARTMENT

701 OCEAN STREET, SUITE 330, SANTA CRUZ, CA 95060-4073

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BOB WATSON, DIRECTOR

October 15, 2001

Agenda: November 6, 2001

Board of Supervisors  
County of Santa Cruz  
701 Ocean Street  
Santa Cruz, California

### Emergency Repair - Cogeneration System At The Main Jail

Dear Members of the Board:

On August 1, 2001 the Department of General Services authorized an emergency repair of the cogeneration power system located at the County Main Jail facility in Santa Cruz. This power system is composed of three Chevrolet **V-8** engines which operate on natural gas (rather than gasoline) to turn electric generators which provide up to 60 kilowatts each. One of the three engines failed and needed to be replaced in order to prevent any further damage and to restore the system to normal operating capacity. In addition to producing electricity for the Jail, the cogeneration system produces hot water as a byproduct of the cogeneration process. With the requirement to provide hot water for cooking, laundry and showers, detention facilities are an excellent application for cogeneration technology. It is estimated that the normal operation of this system provides a net utility cost savings of \$3,000 per month at this facility.

Financing for this emergency repair was provided through the General Services Department Budget, Building Maintenance Index 333300, Subobject 3665.

It is, therefore, RECOMMENDED that your Board:

1. Approve and ratify the emergency repair of the cogeneration system at the County Main Jail facility located at 259 Water Street, Santa Cruz at a cost of \$11,297.66; and
2. Authorize the Auditor Controller to process payment in the amount of \$11,297.66 to Tecogen Inc. for this repair.

Sincerely,

Bob Watson  
General Services Director

RECOMMENDED:

Susan A. Mauriello  
County Administrative Officer

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