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County and Stanford to Collaborate on Energy Conservation

Stanford will contribute up to \$1 Million; Research will benefit Jail and Environment

SAN JOSE, CALIF.— The County of Santa Clara Board of Supervisors approved an agreement today to collaborate with Stanford University to retrofit County's Main Jail North to improve energy efficiency. Stanford will fund up to one million dollars toward the project.

The collaborative project will encompass two phases, a preliminary research, monitoring and modeling phase, and a retrofit phase. The research phase will require County General Funds approximately \$15,000 for project management. The retrofitting phase will require County General Funds approximately \$85,000 for retrofitting the Main Jail server and control software and for installing additional utility sensors. Stanford will provide expertise and advice on retrofit measures, and fund up to one million dollars for the project. The County will permit Stanford researchers reasonable access to Main Jail North and provide data about energy efficiency both prior to and after the retrofit.

The research is expected to save approximately \$175,878, about 10-15% of the Main Jail's current annual electrical cost. The annual green house gas emitted will be reduced by 784,791 pounds.

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County and Stanford to Collaborate on Energy Conservation, Page 2 of 2

"This collaboration between Stanford University and the County comes at a critical time. Both Stanford and Santa Clara County have been leaders in energy conservation. We applaud Stanford for its innovative approach and look forward to working with them and their expertise to create a more energy-efficient jail," said County of Santa Clara Supervisor Liz Kniss.

The County and Stanford University representatives have been working collaboratively for a year to find an appropriate energy conservation retrofit project for a research program to be conducted by the Precourt Institute for Energy Efficiency. The team, including staff from the County Facilities and Fleet Department and Stanford, reviewed twelve possible projects to find a facility that met Stanford's research requirements and the County's objectives. The Main Jail was selected for several reasons. It has relatively stable electricity and gas loads, the structure is relatively simple, the occupancy is stable, and temperature measurement equipment is already in place.

"We are pleased that both of our organizations will be able to benefit from this cooperative effort," said Larry Jinkins, the County's Director of Facilities and Fleet. "Making all of our facilities more energy-efficient is one of our key priorities. The Stanford research project will be one of several 'green' initiatives the county has underway. "

The Stanford research team will build an energy consumption model for the facility and then evaluate possible retrofit projects to see which contributes most significantly to reduced consumption. The model will illustrate heating, cooling, lighting, ventilating and other energy flows within the building. Various recommendations will be made by the Stanford team to optimize the energy efficiency of the facility. The resulting retrofit projects will be recommended to the County. The County is under no obligation to undertake the recommendations, but if these are chosen the Stanford will contribute up to one million dollars towards the costs of these retrofits. The results of the study will assist the County in evaluating the merits of various types of energy conservation measures that could be applied to other facilities.

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