County of Santa Cruz

DISTRICT ATTORNEY'S OFFICE

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(831) 454-2400   FAX: **(831)** 454-2227

KATHRYN CANLIS
DISTRICT ATTORNEY

Michael S. McFarland
Chief Deputy-Administration

July 26, 2001   **AGENDA: August 7, 2001**

Members of the Board of Supervisors
Government Center
701 Ocean Street, Room 500
Santa Cruz, California 95060

RE: Procurement of a Forensic Recovery of Evidence Device

Dear Members of the Board:

The District Attorney is requesting your Board's approval in accepting unanticipated revenue in the amount of $8,500 from the Supplemental Law Enforcement Grant Fund to acquire a Forensic Recovery of Evidence Device (F.R.E.D.) for the investigation of crime involving the use of computer equipment.

BACKGROUND

As part of the FY2000-2001 final District Attorney budget, your Board approved in the fixed asset category the purchase of a F.R.E.D.. Though the purchase of this equipment was authorized, the District Attorney decided not to proceed with the purchase until unresolved issues related to the utilization of this equipment were addressed. These issues continued during the FY2001-2002 budget process and the equipment was not requested in the current budget.

There have been ongoing discussions with local law enforcement and businesses affected by high tech crimes about how to use available resources to address the challenges presented by these crimes. This F.R.E.D. is an integral component of high tech crime investigation, but is of value only if used in conjunction with proper investigative support.

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P.O. BOX **228**
FREEDOM, CA **95019**

430 FREEDOM BLVD.
WATSONVILLE, CA **95076**
(831) 763-8120

☐   PUBLIC ADMINISTRATOR
P.O. **BOX 1159**
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Just recently we have reached resolution on these issues. Discussions have been taking place over the last year between the District Attorney, law enforcement, and local businesses interested in developing a team response to the investigation and prosecution of high tech crimes in Santa Cruz County. During these discussions, we learned that Seagate Technology in Scotts Valley is committed to assisting law enforcement in responding to high tech crimes. Seagate has donated expertise and equipment to law enforcement agencies in other areas of California and the nation.

Locally, Seagate has committed office space, computer access, and dedicated telephone lines for local law enforcement agencies to use in high tech crime investigation. The secured office space will be available to all local investigators involved in the ad hoc high tech crimes task force and will be reserved exclusively for their use. The District Attorney believes it is appropriate for the F.R.E.D. to be located at the Seagate facility where it will be accessible to the task force.

Included in the Board's agenda package is specific information detailing the equipment being requested.
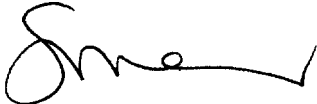
THEREFORE, IT IS RECOMMENDED THAT YOUR BOARD approve the attached AUD60 authorizing the purchase of the Forensic Recovery Evidence Device from unanticipated revenue available from the Supplemental Law Enforcement Trust Fund, as requested by the District Attorney.

RESPECTFULLY,

KATHRYN CANLIS
DISTRICT ATTORNEY

APPROVED:

SUSAN A. MAURIELLO
COUNTY ADMINISTRATOR

FREDpurchase.bos

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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 ACCEPTING UNANTICIPATED REVENUE

Whereas, the County of Santa Cruz is a recipient of funds from **Supplemental Law Enforcement Fund** for **High Tech** Crime **Investigation** program; and

WHEREAS, the County is recipient of funds in the amount of $ **8,500 .00** which are either in excess of those anticipated or are not specifically set forth in the current fiscal **year** budget of the County; and

WHEREAS, pursuant to Government Code Section 29130(c) / 29064(b), such funds may be made available for specific appropriation by four-fifths vote of the Board of Supervisors;

NOW, THEREFORE, BE IT RESOLVED AND ORDERED that the Santa Cruz County Auditor-Controller accept funds in the amount of $**8,500.00** into Department **District Attorney**

T/C	Index Number	Revenue Subobject Number	Account Name	Amount
001	272300	0883	Supplemental Law Enforcement	$8,500.00

and that such funds be and are hereby appropriated as follows:

TIC	Index Number	Expenditure Subobject Number	PRJ/UCD	Account Name	Amount
021	272300	8404		Equipment	$8,500.00

DEPARTMENT HEAD   I hereby certify that the fiscal provisions have been researched and **that the Rev**enue(s) (has been) (will be) recieved within the current fiscal year.

By _Kathryn Canlis_
        Department Head

Date _7/23/01_

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COUNTY ADMINISTRATIVE OFFICER   / ~~~ 7/24/01 **Recommended** to Board

                                 /_____/   Not recommended to Board

_____

PASSED AND ADOPTED **by** the Board of Supervisors **of** the County **of** Santa Cruz, State **of** California, this _____ day **of** _____ , 19_____ **by** the following vote   (requires four-fifths vote for approval **)**:

AYES: SUPERVISORS

NOES: SUPERVISORS

ABSENT: SUPERVISORS

                              _____
                               Chairperson of the Board

ATTEST:

_____
Clerk of the Board

APPROVED AS TO FORM: #272300_0883/8404
                                      APPROVED AS **TO** ACCOUNTING DETAIL:
Henry A. Oberhelman III   *P-Dillaugh 7-23-01*
County Counsel *12/16/97*   Auditor-Controller

Distribution:
        Auditor-Controller
        County Counsel
        County Administrative Officer
        Originating Department

AUD60 (REV 12/97)

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F.R.E.D. Sr

What F.R.E.D. Sr is:

FRED Sr is our top of the line (F)orensic (R)ecovery of (E)vidence (D)evice. FRED Sr is simply the most powerful and flexible Computer Forensic platform ever designed. It is a highly integrated platform which may be used both for the acquisition and analysis of computer based evidence. In fact, given the modularity of the unit, FRED Sr can even operate as a standard PC Platform when not in use for forensic acquisition or processing.

F.R.E.D. Sr Photos:

What F.R.E.D. Sr does:

When using FRED Sr in the lab to acquire data from seized equipment, all you have to do is remove the hard drive(s) from the suspect equipment and plug them into FRED Sr to acquire data. FRED Sr will acquire data directly from IDE/EIDE/ATA/ATAPI/SCSI I/SCSI II/SCSI III hard drives and devices. FRED Sr will also acquire data from 3-1/2 and 5-1/4 inch floppies, 1 Gb or 2 Gb JAZ Cartridges, 100 Mb or 250 Mb ZIP cartridges, 120 Mb LS-120 SuperDisk Cartridges, CD-ROM, DVD-ROM, and 4mm tape cartridges. This unit also has the added capability of being able to process information on PC Cards, Compact Flash Media, and Smart Media found in many of today's digital imaging devices. Furthermore, the PC Card, Compact Flash, and SmartMedia capabilities are available directly from the standalone DOS prompt if desired (no need to load the GUI!). FRED Sr has custom front panel connections and removable trays to acquire data from all these devices. You won't have to open up your processing platform to install drives or crawl around the back of your unit to attach devices. No more worrying about the functionality, capability, or configuration of parallel devices on suspect equipment to hook up external tape drives. No worries about installing a SCSI adapter in a suspect computer to acquire data at speeds faster than parallel ports allow.

FRED Sr comes with two high capacity hard drives. One of these drives can be used as your forensic acquisition and processing system. One boot menu option on your primary drive might be configured to boot FRED Sr into data acquisition mode with full SCSI support and a hard drive write blocker automatically loaded. Another boot option could be configured to place FRED Sr in data analysis mode with fill access to your online tools. The second hard drive can be used as work space for restoring suspect information. Both hard drives are supplied in removable trays with front panel switches for master/slave configuration.

FRED Sr has one of the fastest video processors available today (Nvidia GeForce GTS 2 with 32 Mb of RAM). FRED Sr also has built in Video Capture capability to acquire video or still image documentation of the crime scene (suspect equipment, cabling, and workspace placement and organization). FRED Sr can be used to generate video output of

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evidentiary information such as images and/or documents directly to VCR tape for   0106
simplified presentation.

FRED Sr can connect directly to a 10Mb or 100Mb ethernet network for use as a standard
workstation when not processing or acquiring data. With the addition of Network Analysis
software (Packet Analyzer), FRED can even be used to monitor network traffic and
communications at the crime scene.

FRED Sr also includes the new Asus iPanel information and control center. This device
constantly monitors the status of the system including digital display of System Clock
Speed, System Bus Speed, System Memory Speed, CPU Fan Speed, Case Fan Speeds,
CPU Temperature, Motherboard Temperature, as well as system POST codes at boot
time. This unit also includes two front mounted USB ports

Baseline F.R.E.D. Specifications:

- **ATX Double Wide Server Case (11 ext 5-1/4, 1 ext 3-1/2):** All steel
  construction. Two redundant 300W power supplies dedicated to the
  drive array and a single 250W power supply just for the motherboard!
  Seven large cooling fans to maximize airflow and an integrated air
  filtration cover for the ventilated drive array!
- **ASUS Pentium III Motherboard:** Intel 815e chipset. Full DMA
  33/66/100 support for the fastest of IDE hard drives. Integrated 10/100
  Mbs LAN adapter for connection to a forensic or Local Area Network.
  Integrated audio controller for listening to WAV files and other audio
  services..
- **Intel Pentium III, 1 GHz:** Fastest of all Pentium III Processors!
- **512 Mb SDRAM Memory:** Plenty of memory for even the hungriest
  application
- **SCSI Controller:** Adaptec SCSI controller provides SCSI 1/2/3
  (narrow, wide, ultra, and ultra 160) support.
- **Two 80 Gb Ultra DMA/100 IDE Hard Drives:** Lots of disk space!
  Use one for your forensic tools and operating system(s), use the other
  for work space to analyze and process restored forensic images. Both
  drives are in removable trays! Each drive has an external master/slave
  switch to maximize flexibility.
- **Combination CD-RW/DVD Drive With Software MPEG Decoder:** .
  Read/Process/Image CD-ROM and DVD media. Complete with
  software MPEG decoder. Record critical evidentiary materials and
  summary case information to CD-ROM for simplified dissemination and
  long-term storage. All DVD and CD-RW capabilities with a single
  drive!
- **Six Removable Hard Drive Racks:** One for each hard drive (2), one
  for the LS-120 drive, one for the 250Mb Zip drive, one empty rack for
  imaging 3-1/2 and 2-1/2 inch IDE Drives, and one rack with external
  work surface for imaging 5-1/4 inch IDE or internal SCSI 1/2/3 drives.
- **Lightning Fast Nvidia GeForce GTS 2 AGP Video Card w/Video
  Capture and Video Out:** Use with the still video camera (included
  below) to capture digital still or full motion images to document the

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suspect workspace in the field. Record images of workstation, `0107 documentation, and/or cable management on suspect equipment at the scene. Use the video out capability to record evidentiary materials (images, documents, spreadsheets) directly to VCR tape for simplified presentation.

- **Video/Still Capture Camera:** Record visual details of the suspect environment.
- **56K Modem:** Use the internal modem to assist in Internet investigations or simply to connect for research and communication.
- **3-1/2 & 5-1/4 Dual Media Diskette Drive:** Read/Write all 3-1/2 and 5-1/4 inch floppy disk formats. This consolidated drive occupies only a single device bay.
- **PC Card, SmartMedia, and Compact Flash Media Combo Reader:** Use this single, integrated device to read PC Cards, SmartMedia, and Compact Flash Media found in many of todays digital imaging devices and cameras. Note that the services of this device are even available when booted to the Standalone DOS prompt and do not require the services of a Windows GUI!
- **2Gb Iomega JAZ Drive:** Read/Write 1Gb and 2Gb JAZ cartridges. (Not included in "FRED Jr." configuration)
- **250 Mb Iomega Zip Drive (In Removeable Tray):** Read/Write 100Mb and 200Mb ZIP Disks. (Not included in "FRED Jr." configuration)
- **LS-120 SuperDisk Drive (In Removeable Tray):** Read/Write 120Mb LS-120 cartridges and 3-1/2 inch 1.44Mb Diskettes. (Not included in "FRED Jr." configuration)
- **12/24Gb 4mm DDS-3 DAT Tape Drive:** Use this 24 Gb (compressed) tape drive to record images of suspect hard drives and other media. This drive will use 2/4 Gb Media (90m), 4/8 Gb Media (120m), or 12/24 Gb Media (125m). (Not included in "FRED Jr." configuration)
- **Yrrrow SCSI 1/2 Removable Drive Tray:** Use this empty tray to easily image narrow SCSI hard drives. . . . . ¨ ... ¨ . .
- **Wide SCSI 3 Removable Drive Tray:** Use this empty tray to easily image wide SCSI 3 hard drives.
- **Custom Floppy Write Protect Switch and Indicator Lamp:** Write protect both floppy drives with a single switch. No need to toggle the write protect tabs on individual floppies during imaging or analysis.
- **Custom SCSI Connector Plate on Front of Unit (SCSI 1/2/3):** These connectors, conveniently located on the front of the unit, provides easy access to SCSI 1, 2 and 3 connectors. Install the removable work shelf and these connectors can be used to image internal SCSI 1/2/3 drives which have been removed from the suspect system. These connectors may also be used with/without the shelf to image SCSI 1/2/3 external devices as well.
- **Custom Removable Workshelf :** This workshelf, integrated with a removable IDE rack, is easily installed or removed from the unit. **An** IDE data cable and two power connectors (5-1/4 and 3-1/2) is integrated with the shelf for use in imaging IDE drives. The power

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connector(s) on the shelf may also be used in combination with the   01 08
external SCSI 1/2/3 connectors to image internal SCSI devices as well.

- *o* **Toolbox containing**
    - *o* **Adapters, Terminators, and Cables:** All the necessary cables, adapters, and terminators to provide the ability to image and process internal/external SCSI 1/2/3 and SCA drives, 2-1/2 inch IDE (laptop) drives, 3-1/2 inch IDE drives, and 5-1/4 inch IDE drives.
    - *o* **Security Screwdriver Set: A** varied assortment of popular security bits for opening computer enclosures which may have been locked down in a corporate environment.
    - *o* **Plenty of room** for transporting keyboard, mouse, tapes, disks, and other accessories into the field.
- *o* **104 key PS/2 Keyboard**
- **PS/2 Wheel Mouse**
- **MS-DOS 6.22**
- *o* **Microsoft Windows ME**
- *o* **RedHat Linux 7.0**
- *o* **Symantec GHOST Personal Edition**
- *o* **Veritas Backup Exec**
- *o* **CD (CDR/CDRW) Authoring Software**
- *o* DriveSpy
- *o* Image
- PDWipe
- *o* PDBlock
- PART

Price:

Standard Configuration	$7999.00

Please consult our Sales Page for information on ordering these products!

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