machine communications technologies designed to tighten the control loop and force feedback interface within immersive sensory environments. Emphasis of this work is on bioelectric control in virtual worlds using electromyographic neural network pattern recognition that will ultimately enhance a variety of human-machine interactions. Additional work is carried out in evolutionary cell computing, a new technique that promises to develop into self-organizing code generation. It complements and merges the properties of both neural nets and genetic algorithms, and is based on self-organization in biological systems as a model for emergence of robust computational solutions to adaptive search and learning.

Technology Area 7: Intelligent Collaboration and Assistant Systems

The Contractor shall support the missions of the Intelligent Collaboration and Assistant Systems Group. The Contractor shall research, develop, and apply methods that provide computer-based support for daily work activities of scientists, engineers, managers, and operational support personnel contributing to major NASA Aeronautics and Space Programs. The team must analyze work environments, technology needs, and communication patterns. They shall design and develop advanced collaboration, communication, and performance support systems, and deliver these on conventional and mobile computing platforms. They shall employ and integrate a broad range of technologies including collaborative systems design, groupware, work systems simulation, information indexing and retrieval, intelligent interfaces, adaptive systems, wireless technologies, information visualization, intelligent agents, data/information analysis techniques, knowledge-based systems, and other innovative or traditional approaches. They shall focus application efforts so as to satisfy mission requirements in such major NASA Programs as Earth Sciences, Space Sciences, Human Exploration and Development of Space, and Aviation Safety. An example of such an application effort is the development of the ScienceDesk distributed science support environment, a computer-supported cooperative work environment. This work involves both science code development and the specification, design, development, and integration of codes for use by a science user community. The task thus includes substantial communication and interfacing with the science users in order to understand the needs that drive development requirements.

Technology Area 8: Intelligent Mechanisms

The Contractor shall support the missions of the Intelligent Mechanisms Group (IMG). The Contractor shall perform the following functions:

(1) Perform engineering analyses of robotic, tele-robotic, semi-autonomous, and autonomous robotic systems and control concepts for NASA missions.
(2) Determine areas where these systems can be employed to provide high leverage returns to NASA missions.

(3) Perform field experiments in the application of these systems to science exploration tasks in unstructured environments.
(4) Support the integration of automated systems, machine vision and perception technologies, and tele-operations, including virtual reality and data visualization graphical computer interfaces.
(5) Conduct applied research with responsibility for technical contribution and leadership, and results or progress demonstration.

Technology Area 9: Optical Processing

The Contractor shall support the missions of the Optical Processing Group. Contractor shall conduct applied research projects in the areas of optical data storage, optical information processing, optical sensors, and signal processing. The primary project currently under investigation is the research and development of high density, rapid access, holographic data storage systems based on the novel organic optical material bacteriorhodopsin. This material also has many other potential applications that may be pursued in information processing, computing systems, and metrology. Other future research may be directed toward very long term technology areas such as quantum computing, smart instrumentation and advanced Information Technology for measuring systems. These projects required optical laboratory experimentation, electronics design, computer controlled experiment interfaces, system-level analysis, electromagnetic wave theory, and general computer skills including system simulation and modeling.

Technology Area 10: Systems Health and Safety

The Contractor shall support the objectives of the Systems Health and Safety Group. The Contractor shall develop and apply software tools and algorithms in an effort to reduce the lifecycle costs of component faults and partial systems failures in aeronautical and space systems. These efforts include fundamental research involving advanced multivariate signal analysis, as well as focussed project elements to address major NASA Programs. Current activities include:

Automated Reasoning for Condition-Based Maintenance (CBM): Research to develop and apply a broad range of methods to the problem of establishing system maintenance based on state of health rather than a fixed schedule. The methods used include systems' analysis, graphical modeling, model-based reasoning, and advanced data analysis.

Signal Analysis for Health and Usage Monitoring Systems (HUMS): Research and engineering activities to develop in-flight, prognostic HUMS, with initial applications to helicopter rotor power trains and transport aircraft engines. The contractor will be involved with flight research activities at ARC as well as collaborative transmission and engine research at Glenn Research Center at Lewis Field (GRC).

Automated Monitoring and Diagnosis: Development of monitoring and diagnosis algorithms using available commercial and experimental software that is coded by the project staff. Resulting software capabilities will be integrated with data acquisition and computing facilities of target systems. These monitoring and diagnostic capabilities will be applied to software or integrate hardware/software systems. An ongoing focus is the development of a monitoring and diagnosis capability for the SOFIA project.

Technology Area 11: Variational Design

The Contractor shall provide technical support and domain expertise in several areas related to merging information sciences technologies to support aerospace design activities through variational calculus and constrained optimization. These areas currently include:

(1) Develop and implement software for navigation through the aerospace data information infrastructure in support of industry customers;
(2) Support user interface requirements for launching various versions/scripts of NASA or Industry analyses codes over a distributed information system;
(3) Develop and provide generic versions of distributed interface and database tools as required in support of CFD and wind tunnel tests;
(4) Develop and provide analytical systems for use by aircraft designers to evaluate operational impacts of wing and airframe design alternatives.

Technology Area 12: Airport Surface Movement Technologies

The Contractor shall support the Surface Movement Advisor (SMA) Project and the operations of the Future Flight Central (FFC), formerly known as Surface Development and Test Facility (SDTF).

The SMA project develops and implements a series of prototype aircraft ground movement advisory systems for increasing airport capability and throughput. The prototypes are being field tested at Atlanta Hartsfield Airport. The key modules of the SMA Prototypes requiring support are: (1) Information System, (2) Input Management System, (3) Verification and Validation, Integration and Test, and (4) Documentation. The tasks will be based on Unix hosts, using Ethernet and TCP/IP protocols. In addition to Unix hosts the clients may be running on a variety of platforms (*DOS, Windows, Mac, Unix*). The system relies on C and Oracle tools and may eventually evolve to C++ or Ada. Displays for the system will be developed on Motif/X Windows, Visual C++/Basic, and Oracle CDE.

The FFC is a high fidelity air traffic control tower simulator used to support training of air traffic controllers and testing of human interface technologies with various visualization and simulation capabilities. The contractor shall support the effort to achieve operational readiness in five dedicated areas: simulation engineering, human-factors analysis, simulation software development, Unix/PC administration

with AV/Comm capabilities, and network administration. The Contractor shall possess the following technical capabilities: task management, scenario development, experimental design and human-factors consulting, testing and testing development, data management, AV GUI control, projector calibration and maintenance, and network security management.

Technology Area 13: Aviation Safety

The Contractor shall support the NASA Aviation Safety Program (AvSP). The AvSP goal is to develop and demonstrate software and operations technologies that help industry achieve aviation safety improvements. The task includes research and development of middleware technologies and rapid prototype development of data sharing services. Technologies developed and applied in these programs include: aircraft hardware and software safety components, advanced information sharing technologies, improved procedures, training, and tracking and integrated safety models and simulations to better baseline, track and predict aviation safety performance. The deliverables in this task include R&D reports and impact assessments, operations implementation handbooks, and training and test manuals. Documentation includes concept documents, requirements analysis, detailed specifications, on-line code, bug reports and change requests, lessons learned, and test results.

Technology Area 14: Human Centered Computing

The Contractor shall support the objectives of the Human-Centered Computing Group. The Contractor shall develop and apply software tools for modeling work practices in aerospace domains such as mission control, ground-based vehicle processing, launch control, and air traffic management. These efforts include fundamental innovations and advanced applications of modeling technology, such as the use of work-process models to develop control architectures for human-robot collaboration in planetary exploration.

The Contractor shall support research required to prototype and evaluate a broad range of innovative concepts to meet the requirements for "just-in-time" and remote training systems. The methods used include requirements engineering, graphical interface development, model-based individual and team instruction, and data analysis to track progress and to tailor instructional content. ITS automated development tools and embedded training/aiding systems are also included in this effort.

The Contractor shall support research and development of advanced scientific, engineering, and operations Knowledge Management Systems, with initial applications to vehicle design and vehicle processing, for example, the development of model-based design methods for life-cycle processing of mixed fleets. The contractor will be involved with innovative modeling activities at ARC as well as collaborative applications and evaluations at KSC and other NASA Centers.

2.4 Additional Task Areas

During the span of this contract, task orders may be written to support similar work within the Information Sciences and Technology Directorate. Currently, the Division anticipates supporting a new center-wide program scheduled to begin October 1999, the Intelligent Systems Program (ISP). Should this be realized, the technologies listed herein would still be applicable, but the scale of effort within the Division would possibly double.

3.0 CONTRACT TASK ORDERS

The task order process follows the steps outlined below:

(1) Civil Servant researcher (task requester) has a requirement and sufficient funding for work to be performed and fills out the "Contract Task Order Request" form.

(2) Request is submitted to the COTR for logging and processing.

(3) COTR submits the request to the contracting officer for review.

(4) Once returned by the contracting officer, the COTR works with the contractor management to review and understand the requirements of the request.

(5) Contractor management responds with task plan to the COTR and task requester for approval. There may be rounds of negotiation at this point. Once agreement is made, task order is filled in.

(6) Task order is submitted to the contracting officer for final approval and the contract task order is issued for work to begin.

If any of the requirements (scope, schedule, resources, funding) should change, a CTO revision must be submitted to inform all parties involved (COTR, contractor management, task requester, contracting officer). Changes cannot proceed until final approval from the contracting officer.

For more detailed instructions, please refer to Section H.4, Task Ordering Procedures.

4.0 QUALITY ASSURANCE

In support of CTOs issued, the Contractor shall comply with, and be an integral part of, the Ames ISO 9001 Quality System. This includes following applicable Ames' procedures which are subject to audit. The Contractor shall attend ISO 9001 training, provided by the Government, as required for all on-site employees.

Specific procedures will be indicated on each task order response. These procedures include, but are not limited to, the following ISO documents:

AHB 5300.1	System Safety, Reliability and Quality Assurance Manual
SLP 53.ARC.0000	Quality Manual
SLP 53.ARC.0004.1	Project Management for the Design and Development of Software
SLP 53.ARC.0004.2	Project Management for the Design and Development of Hardware and Systems
SLP 53.ARC.0009.2	Project Management for research
SLP 53.ARC.0009.2.1	Publication of Research results
SLP 53.IC.0009.1	Data Analysis
SLP 53.IC.0011	Calibration of electrical and electronic equipment
SLP 53.IC.0015	Data, Storage and Distribution

The Ames' Quality System documents can be found at:
http://dqa.arc.nasa.gov/iso9000/

5.0 HEALTH AND SAFETY

The Contractor shall maintain familiarity with the Ames' Health and Safety Manual AHB 1700-1 and the System Safety, Reliability and Quality Assurance Manual AHB 5300.1. They shall conduct work in accordance with established regulations and with respect for their own and their coworkers' safety. They shall adhere to property safety practices at all times, with particular attention to the procedures for working in and around laboratory equipment. Each contractor employee shall encourage proper safety practices among fellow employees and report any unsafe practices and/or conditions that may exist in employees' work sites to the Contractor Resident Manager or Facility Safety Representative (FSR), who shall report to the COTR.

6.0 DELIVERABLES

Products and services requirements shall be defined in each task order.

7.0 STANDARDS

The Contractor's policies and plans for management and performance of this contract must be tailored to the NASA Environment. The contractor's standards, policies, and plans must provide flexibility to react to changing policies, standards, technology and methodology and must conform to NASA Standards and Guidelines.

Appendix A Acronyms

AI	Artificial Intelligence
ARC	Ames Research Center
AvSP	Aviation Safety Program
CFD	Computational Fluid Dynamics
CO	Contracting Officer
COTR	Contracting Officer's Technical Representative
CTO	Contract Task Orders
DARWIN	Development Aeronautics Revolutionizing Wind-tunnels with Intelligent Systems for NASA
FLITE	Flying Laboratory for Integrated Test and Evaluation (Cobra Helicopter)
FSR	Facility Safety Representative
GRC	Glenn Research Center at Lewis Field
HUMS	Health and Usage Monitoring System
ICS	Intelligent Computational Systems
ISO	International Standards Organization [fr. F. Organisation Internationale de Standards]
ISP	Intelligent Systems Program
MTPE	Mission to Planet Earth
ODC	Other Direct Cost
QA	Quality Assurance
RLV	Re-usable Launch Vehicle
SMA	Surface Movement Advisor
SOFIA	Stratospheric Observatory For Infrared Astronomy

Appendix B Contract Task Order Forms

Form 1	**Contract Task Order**
	To be filled out by the COTR based upon a "Contract Task Order Request". Provides requirements to Contract Program Manager to fulfill.
Form 2	**Contractor Property "Employee Loan Agreement" Form**
	To be filled out by the contractor with requirement to take Government equipment off-site.

ROUTINE TASK ❑

COMPUTATIONAL SCIENCES R&D TASK ORDER
Contract Number NAS2-XXXXX
PART I – TASK ORDER INITIATION

❑ URGENT TASK
_ _ *CO Concurrence*

Task Title:_____
NASA Resp. Eng.:_____ Org Code:_____ Extension:_____

Date Initiated	SOW Reference	IC Task Number			Task Mod Number
		Project Log Number	YR	Suffix	
			--		

Background:

Task Objectives:

Requirements:

		Additional Performance Standards and Metrics
Technical Performance (10-65%)	_____ %	
Cost Performance (25-80%)	_____ %	
Schedule Performance (10-65%)	_____ %	
	100%	

NASA Task Requester _____ Date _____ Technical Area Lead _____ Date _____

COTR _____ Date _____ Contracting Officer _____ Date _____

PART II – TASK ORDER PLAN PROPOSAL SUMMARY
(To Be Completed by Contractor)

	Task Order Estimate	Plan Summary, Key Deliverable and Schedule Milestones
Labor Hours		
Labor (Burdened)		
ODC's (Burdened)		
Subcontracting		
Fee		
TOTAL		

Planned Task Completion Date:_____ Assigned Task Leader: _____

Program Manager _____ Date _____ COTR _____ Date _____

PART III – APPROVED TASK ORDER PLAN SUMMARY

	Task Order Estimate	Plan Summary, Key Deliverable and Schedule Milestones
Labor Hours		
Labor (Burdened)		
ODC's (Burdened)		
Subcontracting		
Fee		
TOTAL		

Task Requester	Date	Tech Area Lead	Date	Program Manager	Date
Contracting Officer		Date	COTR		Date

PART IV– TASK CLOSEOUT

Task Requester	Date	Tech Area Lead	Date	COTR	Date

Total Costs: _____(FINAL)

EMPLOYEE LOAN AGREEMENT

NASA equipment in the custodian of NASA or on-site contractor employees performing official duties off site. This NASA Equipment Loan Agreement is entered into by the employee identified below pursuant to NHB 4200.1, NASA Equipment Management Manual. This agreement, consistent with the conditions set forth herein authorizes the employee to remove the equipment described below to the location cited for the official purpose or project stated and for a temporary period not to exceed 180 days. Equipment will be returned at the conclusion of subject loan period or project and immediately at the discretion of NASA upon notice to the employee.

Employee Name (Last, First, M.I.)	Organization	Customer Acct No.	Extension	Mail Stop

Length of Time for Loan	Removal Date	Return Date

Location: Where Equipment will be used (including zip code)

Official purpose (include reason why official use cannot be accomplished on-site normal or extended hours) and Project name.

Equipment Control Number and Description	Equipment Control Number and Description

CONDITIONS

- The employee shall assume full responsibility for the care, protection, and use of the NASA equipment and shall not permit use for other than the purpose of this loan.
- The employee may be subject to disciplinary action and/or pecuniary liability for any loss, damage, or destruction of the NASA equipment resulting from the employee's negligence, misuse, dishonesty, or wanton and willful misconduct.
- The employee shall promptly report any property loss, damage, or destruction to the appropriate Property Custodian, but in no case later than 10 working days from the employee's discovery thereof.

EMPLOYEE ACCEPTANCE

"I assume complete responsibility for the equipment listed above and certify that it shall be used only in the conduct of official NASA business. I also certify that this loan is requested for the minimum time required to complete the specified purpose or project. The use and return of this equipment will comply with all stipulations contained in this agreement."

Employee (Signature)	Date:

MANAGEMENT CERTIFICATION

Removal and use of the equipment provided herein is necessary or beneficial to the conduct of NASA's missions or other official Government purposes. Removal of this property will not adversely affect the performance of official duties by the requesting employee or any other employee of the borrowing employee's work unit.

APPROVAL FOR NASA EMPLOYEES (Signature)		APPROVAL FOR ON-SITE CONTRACTOR EMPLOYEE (Signature)	
Property Custodian	Date:	Property Custodian	Date:
Division Chief	Date:	COTR	Date:
SUPPLY AND EQUIPMENT MANAGEMENT OFFICER CONCURRENCE (For all loans over 30 days) Signature and Date		Contracting Officer	Date:

ARC 289A Loan Agreement

A-2 Government Furnished Equipment

Item Name	Manufacturer	Cost	NASA Acq
MESSAGE PAD, COMMUNICAT	3COM CORP	279	1998/04/07
DISK DRIVE UNIT	ACROPOLIS	1850	1991/02/15
DISK DRIVE UNIT	ACROPOLIS	795	1998/01/22
LASER, ARGON ION	AMERICAN LASER	13000	1990/05/08
CONTROL MAINFRAME	AMX CORP	1139	1999/03/29
DISK DRIVE UNIT	ANDATACO	1930	1992/04/14
DISK DRIVE UNIT	ANDATACO	1930	1992/04/14
DISK DRIVE UNIT	ANDATACO	1930	1992/04/14
DISK DRIVE UNIT	ANDATACO	1560	1994/03/30
TRANSPORT, MAGNETIC TAP	ANDATACO	2350	1990/10/09
TRANSPORT, MAGNETIC TAP	ANDATACO	1995	1991/04/18
TRANSPORT, MAGNETIC TAP	ANDATACO	4500	1992/02/26
TRANSPORT, MAGNETIC TAP	ANDATACO	2350	1990/10/09
COMPUTER, MICRO	APPLE	3255	1994/08/16
COMPUTER, MICRO	APPLE	1922	1998/09/14
COMPUTER, MICRO	APPLE	2558	1999/03/24
COMPUTER, MICRO	APPLE	4710	1990/12/06
COMPUTER, MICRO	APPLE	2230	1995/02/13
COMPUTER, MICRO	APPLE	3122	1996/07/08
COMPUTER, MICRO	APPLE	3630	1994/06/15
COMPUTER, MICRO	APPLE	2498	1997/06/09
COMPUTER, MICRO	APPLE	2580	1997/11/20
COMPUTER, MICRO	APPLE	6711	1994/08/01
COMPUTER, MICRO	APPLE	2650	1994/03/02
COMPUTER, MICRO	APPLE	2790	1998/09/16
COMPUTER, MICRO	APPLE	4110	1995/03/03
COMPUTER, MICRO	APPLE	3122	1996/07/08
COMPUTER, MICRO	APPLE	1188	1999/03/01
COMPUTER, MICRO	APPLE	1727	1988/02/22
COMPUTER, MICRO	APPLE	3700	1997/02/12
COMPUTER, MICRO	APPLE	2230	1995/02/13
COMPUTER, MICRO	APPLE	3634	1997/05/23
COMPUTER, MICRO	APPLE	4470	1992/10/19
COMPUTER, MICRO	APPLE	6388	1994/06/20
COMPUTER, MICRO	APPLE	4656	1995/03/29
COMPUTER, MICRO	APPLE	2498	1997/06/09
COMPUTER, MICRO	APPLE	2873	1994/12/06
COMPUTER, MICRO	APPLE	2358	1997/07/15
COMPUTER, MICRO	APPLE	2580	1997/11/20
COMPUTER, MICRO	APPLE	3122	1996/07/26
COMPUTER, MICRO	APPLE	1899	1998/09/01
COMPUTER, MICRO	APPLE	2917	1990/08/06
COMPUTER, MICRO	APPLE	2790	1998/09/16
COMPUTER, MICRO	APPLE	2580	1997/11/20
COMPUTER, MICRO	APPLE	3308	1994/09/08
COMPUTER, MICRO	APPLE	3016	1998/08/21
COMPUTER, MICRO	APPLE	2498	1997/06/09
COMPUTER, MICRO	APPLE	1199	1999/01/28
COMPUTER, MICRO	APPLE	539	1994/06/15
COMPUTER, MICRO	APPLE	3636	1997/02/03
COMPUTER, MICRO	APPLE	3563	1997/11/20
COMPUTER, MICRO	APPLE	5382	1996/09/24
COMPUTER, MICRO	APPLE	2362	1998/07/08
COMPUTER, MICRO	APPLE	2362	1998/07/08
COMPUTER, MICRO	APPLE	2362	1998/07/08
COMPUTER, MICRO	APPLE	2362	1998/07/08
COMPUTER, MICRO	APPLE	3406	1993/06/25
COMPUTER, MICRO	APPLE	3493	1993/05/05

COMPUTER, MICRO	APPLE	3885	1995/02/28
COMPUTER, MICRO	APPLE	4785	1996/09/16
COMPUTER, MICRO	APPLE	3634	1997/05/23
COMPUTER, MICRO	APPLE	2580	1997/11/20
COMPUTER, MICRO	APPLE	2580	1997/11/20
COMPUTER, MICRO	APPLE	2495	1998/03/20
COMPUTER, MICRO	APPLE	2495	1998/03/20
COMPUTER, MICRO	APPLE	3307	1995/02/16
COMPUTER, MICRO	APPLE	2917	1996/11/12
COMPUTER, MICRO	APPLE	2313	1999/03/16
COMPUTER, MICRO	APPLE	2230	1995/02/13
COMPUTER, MICRO	APPLE	2328	1998/12/08
COMPUTER, MICRO	APPLE	1428	1994/01/07
COMPUTER, MICRO	APPLE	1751	1997/02/12
COMPUTER, MICRO	APPLE	1199	1999/01/28
COMPUTER, MICRO	APPLE	3563	1997/11/20
COMPUTER, MICRO	APPLE	5736	1995/07/24
COMPUTER, MICRO	APPLE	3089	1994/05/16
COMPUTER, MICRO	APPLE	2580	1997/11/20
COMPUTER, MICRO	APPLE	2498	1997/06/09
COMPUTER, MICRO	APPLE	3869	1995/03/10
COMPUTER, MICRO	APPLE	5182	1997/11/20
COMPUTER, MICRO	APPLE	1751	1997/02/12
COMPUTER, MICRO	APPLE	3885	1995/02/28
COMPUTER, MICRO	APPLE	3547	1995/02/28
COMPUTER, MICRO	APPLE	2029	1998/07/16
COMPUTER, MICRO	APPLE	2776	1999/03/16
COMPUTER, MICRO	APPLE	4367	1998/02/17
COMPUTER, MICRO	APPLE	2839	1994/06/20
COMPUTER, MICRO	APPLE	6581	1991/07/19
COMPUTER, MICRO	APPLE	4128	1993/09/15
COMPUTER, MICRO	APPLE	2580	1997/11/20
COMPUTER, MICRO	APPLE	2849	1994/05/16
COMPUTER, MICRO	APPLE	4294	1995/09/08
COMPUTER, PORTABLE	APPLE	3630	1992/02/14
COMPUTER, PORTABLE	APPLE	4452	1998/02/05
COMPUTER, PORTABLE	APPLE	4824	1997/11/20
COMPUTER, PORTABLE	APPLE	3124	1996/10/03
COMPUTER, PORTABLE	APPLE	3250	1992/01/08
COMPUTER, PORTABLE	APPLE	6321	1997/09/17
COMPUTER, PORTABLE	APPLE	3202	1996/07/08
COMPUTER, PORTABLE	APPLE	4824	1997/11/20
COMPUTER, PORTABLE	APPLE	3880	1999/03/17
COMPUTER, PORTABLE	APPLE	3880	1999/03/17
COMPUTER, PORTABLE	APPLE	6321	1997/09/17
COMPUTER, PORTABLE	APPLE	6321	1997/09/17
COMPUTER, PORTABLE	APPLE	6199	1997/04/24
COMPUTER, PORTABLE	APPLE	3793	1998/07/08
COMPUTER, PORTABLE	APPLE	3339	1996/09/16
COMPUTER, PORTABLE	APPLE	3407	1997/02/12
COMPUTER, PORTABLE	APPLE	2495	1996/12/06
COMPUTER, PORTABLE	APPLE	4824	1997/11/20
COMPUTER, PORTABLE	APPLE	4153	1995/11/13
COMPUTER, SERVER	APPLE	5266	1999/03/19
COMPUTER, SERVER	APPLE	5266	1999/03/19
COMPUTER, SERVER	APPLE	5266	1999/03/19
COMPUTER, SERVER	APPLE	5266	1999/03/19
COMPUTER, SERVER	APPLE	5266	1999/03/19
DISK DRIVE UNIT	APPLE	598	1991/01/15
DISK DRIVE UNIT	APPLE	1098	1987/05/28
DISK DRIVE UNIT	APPLE	3500	1990/03/08
DISPLAY UNIT	APPLE	1549	1998/09/14
DISPLAY UNIT	APPLE	955	1995/02/13

DISPLAY UNIT	APPLE	1793	1997/02/03
DISPLAY UNIT	APPLE	1395	1998/09/16
DISPLAY UNIT	APPLE	579	1996/09/13
DISPLAY UNIT	APPLE	1751	1997/02/12
DISPLAY UNIT	APPLE	674	1997/10/30
DISPLAY UNIT	APPLE	1099	1992/10/19
DISPLAY UNIT	APPLE	960	1997/07/15
DISPLAY UNIT	APPLE	916	1994/12/06
DISPLAY UNIT	APPLE	960	1997/07/15
DISPLAY UNIT	APPLE	2795	1993/11/05
DISPLAY UNIT	APPLE	890	1994/04/26
DISPLAY UNIT	APPLE	1800	1996/09/24
DISPLAY UNIT	APPLE	706	1991/07/15
DISPLAY UNIT	APPLE	702	1991/08/30
DISPLAY UNIT	APPLE	686	1991/10/02
DISPLAY UNIT	APPLE	959	1996/05/21
DISPLAY UNIT	APPLE	615	1992/01/17
DISPLAY UNIT	APPLE	778	1988/05/25
DISPLAY UNIT	APPLE	700	1989/02/22
DISPLAY UNIT	APPLE	674	1991/08/16
DISPLAY UNIT	APPLE	1945	1995/02/16
DISPLAY UNIT	APPLE	955	1995/02/13
DISPLAY UNIT	APPLE	1859	1994/07/25
DISPLAY UNIT	APPLE	1793	1997/02/03
DISPLAY UNIT	APPLE	1751	1997/02/12
DISPLAY UNIT	APPLE	2584	1994/04/07
DISPLAY UNIT	APPLE	890	1994/04/26
DISPLAY UNIT	APPLE	1959	1995/07/24
DISPLAY UNIT	APPLE	1129	1993/07/06
DISPLAY UNIT	APPLE	1839	1995/09/07
DISPLAY UNIT	APPLE	1751	1997/02/12
DISPLAY UNIT	APPLE	912	1994/02/07
DISPLAY UNIT	APPLE	949	1995/02/28
DISPLAY UNIT	APPLE	949	1995/02/28
DISPLAY UNIT	APPLE	1395	1998/09/16
DISPLAY UNIT	APPLE	2039	1994/06/20
DISPLAY UNIT	APPLE	674	1997/10/30
DISPLAY UNIT	APPLE	1104	1992/07/28
INTERFACE UNIT, ADP	APPLE	412	1994/01/07
INTERFACE UNIT, ADP	APPLE	475	1994/01/24
PRINTER, ADP	APPLE	1458	1994/06/10
PRINTER, ADP	APPLE	3990	1991/02/21
PRINTER, ADP	APPLE	4619	1989/05/04
PRINTER, COLOR	APPLE	4199	1998/04/06
PRINTER, LASERWRITER	APPLE	6025	1997/06/08
PRINTER, LASERWRITER	APPLE	2000	1998/03/20
PRINTER, LASERWRITER	APPLE	1599	1997/04/16
PRINTER, LASERWRITER	APPLE	2075	1997/05/09
PRINTER, LASERWRITER	APPLE	1656	1997/06/02
PRINTER, LASERWRITER	APPLE	1999	1998/04/22
DISK DRIVE UNIT	APS TECH	1178	1995/04/07
DISK DRIVE UNIT	APS TECH	489	1996/01/19
DISK DRIVE UNIT	APS TECH	1880	1997/01/29
ROUTER, COMMUNICATIONS	APT COMM	9900	1992/05/19
ROUTER, COMMUNICATIONS	APT COMM	1500	1992/05/12
DISK DRIVE UNIT	ARTECON INC	2728	1993/02/15
TRANSPORT, MAGNETIC TAP	ARTECON INC	10064	1993/09/09
LENS, TV CAMERA	ASAHI OPTICAL	1459	1977/05/18
COMPUTER, MICRO	AST RESEARCH	1200	1998/01/02
DISPLAY UNIT	AST RESEARCH	600	1998/01/02
DISK DRIVE UNIT	AUTO DATA INC	2395	1995/06/21
DISK DRIVE UNIT	AUTO DATA INC	989	1995/05/23
DISK DRIVE UNIT	AUTO DATA INC	989	1995/05/23

DISK DRIVE UNIT	AUTO DATA INC	2395	1995/06/21
DISK DRIVE UNIT	BERING	2436	1993/02/23
DATA ACQUISITION SYSTEM	BORTEC ELEC	7290	1998/10/15
POWER SUPPLY	BURLEIGH	1225	1984/09/26
CAMERA, DIGITAL	CANON CAMERA	650	1998/08/18
CAMERA, VIDEO	CANON CAMERA	1259	1999/03/29
CAMERA, VIDEO	CANON INC	2164	1996/03/04
INTERFACE UNIT	CISCO SYSTEMS	22707	1995/06/08
ROUTER, COMMUNICATIONS	CISCO SYSTEMS	2319	1996/10/31
ROUTER, COMMUNICATIONS	CISCO SYSTEMS	2319	1996/10/31
ROUTER, COMMUNICATIONS	CISCO SYSTEMS	6240	1998/08/18
COMPUTER, MICRO	CLARIION	1115	1998/09/01
COMPUTER, PORTABLE	CLARIION	4356	1997/12/10
DRIVE, DAT	CLARIION	765	1997/11/05
DRIVE, HARD	CLARIION	1484	1998/09/01
DRIVE, HARD	CLARIION	1480	1998/09/01
WRITER, COMPACT DISK	CLARIION	1610	1998/05/31
INTERCOM STATION	CLEAR-COM INTERCOM	1200	1993/03/22
CAMERA, TELEVISION	COHU INC	2450	1991/02/19
CAMERA, TELEVISION	COHU INC	2460	1992/01/30
CONTROLLER, CAMERA	COHU INC	2580	1992/05/12
COMPUTER, MICRO	COMPAQ	3604	1997/03/28
COMPUTER, MICRO	COMPAQ	9411	1997/03/28
COMPUTER, MICRO	COMPAQ	9411	1997/03/28
COMPUTER, MICRO	COMPAQ	9411	1997/03/28
COMPUTER, MICRO	COMPAQ	1500	1997/04/16
COMPUTER, MICRO	COMPAQ	2579	1995/09/26
COMPUTER, MICRO	COMPAQ	3604	1997/03/28
COMPUTER, PORTABLE	COMPAQ	6846	1997/09/17
DISPLAY UNIT	COMPAQ	720	1997/04/16
INTERFACE UNIT	COMPAQ	809	1997/09/17
DISK DRIVE UNIT	CST	2250	1992/02/02
DISK DRIVE UNIT	CST	1750	1991/10/10
HARD DRIVE UNIT	CTI CO	2000	1998/09/16
CAMERA, DIGITAL	DALSA INC	9750	1998/03/09
MIRROR, OPTICAL	DAVIDSON OPTRONICS	1355	1966/08/23
COMPUTER, MICRO	DELL	8281	1999/02/15
COMPUTER, MICRO	DELL	2129	1999/03/16
COMPUTER, MICRO	DELL	7808	1999/01/11
COMPUTER, MICRO	DELL	3900	1999/01/11
COMPUTER, MICRO	DELL	3085	1998/09/14
COMPUTER, MICRO	DELL	7554	1999/02/16
COMPUTER, MICRO	DELL	2403	1999/04/21
COMPUTER, PORTABLE	DELL	4394	1999/01/28
COMPUTER, PORTABLE	DELL	2500	1998/03/17
DISPLAY UNIT	DELL	700	1999/02/15
DISPLAY UNIT	DELL	500	1999/03/16
DISPLAY UNIT	DELL	650	1999/01/11
DISPLAY UNIT	DELL	650	1999/01/11
DISPLAY UNIT	DELL	500	1998/09/14
DISPLAY UNIT	DELL	732	1999/02/16
DISPLAY UNIT	DELL	500	1999/04/21
COMPUTER, PORTABLE	DEC	5113	1998/07/10
TERMINAL, DATA PROCESSI	DEC	1660	1987/05/12
TRANSPORT, MAGNETIC TAP	DEC	6752	1994/09/27
COMPUTER, MICRO	ECLIPSE INC	5635	1998/02/04
COMPUTER, MICRO	ECLIPSE INC	5635	1998/02/04
MONITOR, TELEVISION	ELECTROHOME	2000	1983/10/21
CAMERA, DOCUMENT	ELMO CO LTD	3652	1999/03/29
LASER SYSTEM	ENVIRONMENTAL	14950	1998/09/23
PRINTER, ADP	EPSON AMERICA	599	1997/12/19
SWITCHER, MATRIX	EXTRON CO	5690	1999/03/29
STACKER, TAPE	FALCON SYSTEMS INC	14183	1997/10/14

MULTIMETER, DIGITAL	FLUKE JOHN	2595	1994/09/20
COMPUTER, PORTABLE	FUJITSU	1499	1999/02/12
COMPUTER, MICRO	GATEWAY 2000	2400	1994/06/30
COMPUTER, MICRO	GATEWAY 2000	5703	1996/10/18
COMPUTER, MICRO	GATEWAY 2000	1764	1998/08/28
COMPUTER, MICRO	GATEWAY 2000	3342	1998/09/16
DISPLAY UNIT	GATEWAY 2000	500	1996/10/18
DISPLAY UNIT	GATEWAY 2000	700	1998/08/28
DISPLAY UNIT	GATEWAY 2000	1000	1998/09/16
DRIVE, DAT	GLYPH TECH	1330	1998/09/01
MODULATOR,	HAMAMATSU	30000	1990/03/08
MODULATOR, SPATIAL LIGH	HAMAMATSU	41000	1993/03/03
ANALYZER, LOGIC	HP	10028	1994/07/18
ANALYZER, SIGNAL	HP	20412	1993/01/20
ANALYZER, SPECTRUM	HP	34498	1994/07/20
DISPLAY UNIT	HP	1885	1997/01/30
DISPLAY UNIT	HP	1885	1997/01/30
GENERATOR, FUNCTION	HP	1800	1991/11/07
GENERATOR, FUNCTION	HP	5131	1990/05/01
GENERATOR, FUNCTION	HP	4677	1994/03/10
OSCILLOSCOPE	HP	2395	1991/10/31
POWER SUPPLY	HP	1125	1993/07/29
PRINTER, ADP	HP	1873	1995/04/21
PRINTER, ADP	HP	1091	1996/09/24
DISK DRIVE UNIT	HIGHLAND	13545	1992/09/18
COMPUTER, MICRO	HITACHI AMERICA	2199	1998/04/10
COMPUTER, PORTABLE	HITACHI AMERICA	2277	1998/06/19
COMPUTER, MICRO	IBM	4299	1996/10/21
COMPUTER, MICRO	IBM	4299	1996/10/21
COMPUTER, PORTABLE	IBM	7291	1998/01/31
COMPUTER, PORTABLE	IBM	6702	1998/05/14
COMPUTER, PORTABLE	IBM	4299	1996/10/21
COMPUTER, PORTABLE	IBM	5495	1998/09/17
COMPUTER, PORTABLE	IBM	6082	1998/08/25
COMPUTER, PORTABLE	IBM	6222	1998/08/07
COMPUTER, PORTABLE	IBM	5933	1998/09/18
COMPUTER, PORTABLE	IBM	7148	1998/12/21
PROJECTOR, DATA GRAPHIC	INFOCUS SYSTEM	5703	1998/03/02
PROJECTOR, DATA GRAPHIC	INFOCUS SYSTEM	10652	1998/03/20
COMPUTER, MICRO	IBM	3155	1997/08/13
COMPUTER, PORTABLE	IBM	3670	1997/11/03
COMPUTER, PORTABLE	IBM	1099	1997/06/25
DISK DRIVE UNIT	IOMEGA	527	1996/09/16
DRIVE, JAZ	IOMEGA	527	1996/10/21
DRIVE, JAZ	IOMEGA	545	1996/09/24
DRIVE, JAZ	IOMEGA	599	1999/01/12
DRIVE, ZIP	IOMEGA	199	1997/01/24
CONVERTER, ANALOG/DIGIT	IOTECH	1795	1991/07/03
TERMINAL, DATA PROCESSI	ITOH	585	1987/08/24
TERMINAL, DATA PROCESSI	ITOH	585	1987/03/03
TERMINAL, DATA PROCESSI	ITOH	585	1987/03/03
TERMINAL, DATA PROCESSI	ITOH	585	1987/08/24
TERMINAL, DATA PROCESSI	ITOH	585	1987/12/03
TERMINAL, DATA PROCESSI	ITOH	585	1988/01/06
TERMINAL, DATA PROCESSI	ITOH	585	1988/01/08
MONITOR, TELEVISION	J V C NIVICO	1040	1991/10/15
DISK DRIVE UNIT	JMR ELECTRONICS	1695	1991/06/21
CAMERA, TELEVISION/RECO	JVC CO	11025	1998/06/15
RECORDER, VIDEO CASSETT	JVC CO	2880	1998/09/16
RECORDER, VIDEO CASSETT	JVC CO	1350	1998/09/16
RECORDER, VIDEO CASSETT	JVC INDUSTRIES	1037	1994/09/21
DISK DRIVE UNIT	KINGSTON TECH	1645	1997/12/02
WRITER, COMPACT DISK	KINGSTON TECH	1652	1998/06/24

PROJECTOR, SLIDE	KODAK CANADA	1000	1999/03/29
DISK DRIVE UNIT	LACIE LTD	568	1994/06/20
DISK DRIVE UNIT	LACIE LTD	1540	1997/12/02
DRIVE, HARD	LACIE LTD	650	1999/02/25
DRIVE, HARD	LACIE LTD	650	1999/02/25
DRIVE, HARD	LACIE LTD	650	1999/02/25
HARD DRIVE UNIT	LACIE LTD	983	1996/05/31
LASER, HELIUM-CADMIUM	LICONIX	12700	1993/01/25
POWER SUPPLY	LICONIX	3000	1993/01/25
LASER SYSTEM	LIGHTWAVE	21000	1996/09/25
LASER, RING	LIGHTWAVE	10250	1993/04/20
POWER SUPPLY, LASER	LIGHTWAVE	3000	1993/04/20
DISK DRIVE UNIT	MASS MICRO	1379	1991/10/10
DISK DRIVE UNIT	MASS MICRO	1022	1994/09/19
LASER, HELIUM-NEON	MELLES GRIOT	1300	1989/04/28
HARD DRIVE UNIT	MICROBOARDS	670	1998/01/19
ROBOT, TEACHMOVER	MICROBOT INC	3098	1990/10/09
ROBOT, TEACHMOVER	MICROBOT INC	2996	1992/03/16
COMPUTER, PORTABLE	MICRON	2395	1999/03/24
COMPUTER, PORTABLE	MICRON	2493	1998/09/28
COMPUTER, MICRO	MICRON	3552	1997/05/01
COMPUTER, MICRO	MICRON	4376	1996/03/05
COMPUTER, PORTABLE	MICRON	4028	1997/04/08
DISK DRIVE UNIT	MICRONET	1249	1995/02/27
HARD DRIVE UNIT	MICRONET	581	1996/09/16
MONITOR, TELEVISION	MITSUBISHI	4299	1997/11/25
MONITOR, TELEVISION	MITSUBISHI	4299	1997/11/25
MONITOR, TELEVISION	MITSUBISHI	4299	1997/11/25
GAGE, PRESSURE	MKS INSTRUMENTS INC	1270	1991/05/28
COMPUTER, MICRO	MOTOROLA CHAMPION	2249	1997/08/22
DISPLAY UNIT	NANAO-USA	1667	1994/01/24
HARD DRIVE UNIT	NCA COMPUTER	607	1997/07/07
COMPUTER, PORTABLE	NEC AMERICA INC	5854	1998/09/22
DISPLAY UNIT	NEC ELECTRONICS USA	1993	1997/01/24
DISPLAY UNIT	NEC ELECTRONICS USA	1993	1997/01/24
DISPLAY UNIT	NEC ELECTRONICS USA	1993	1997/01/24
DISPLAY UNIT	NEC ELECTRONICS USA	670	1997/05/16
DISPLAY UNIT	NEC ELECTRONICS USA	2104	1995/09/26
TERMINAL, DATA PROCESSI	NETWORK COMPUTING	1969	1994/09/13
TERMINAL, DATA PROCESSI	NETWORK COMPUTING	2144	1994/02/18
TERMINAL, DATA PROCESSI	NETWORK COMPUTING	2144	1994/02/18
TERMINAL, DATA PROCESSI	NETWORK COMPUTING	1969	1994/09/13
STAGE, ROTATION	NEW FOCUS INC	1000	1996/09/13
ACTUATOR	NEWPORT	1066	1998/09/25
CONTROLLER, MOTION	NEWPORT CORP	8062	1996/10/30
METER, POWER/ENERGY	NEWPORT ELEC	3034	1994/07/28
ACTUATOR	NEWPORT/KLINGER	1641	1989/11/28
ACTUATOR	NEWPORT/KLINGER	1641	1989/11/28
CONTROLLER,PROGRAMMABLE	NEWPORT/KLINGER	3860	1990/03/19
RECORDER, THERMOPLASTIC	NEWPORT/KLINGER	18043	1989/05/03
TABLE, OPTICAL	NEWPORT/KLINGER	8995	1989/04/28
TABLE, OPTICAL	NEWPORT/KLINGER	8995	1989/04/28
COMPUTER, MICRO	NOW ELECTRONICS	2716	1997/01/27
CAMERA, TELEVISION	PANASONIC	1528	1990/07/10
CAMERA, TELEVISION	PANASONIC	1340	1992/06/18
CAMERA, TELEVISION	PANASONIC	1340	1992/06/15
DISPLAY UNIT	PANASONIC	1200	1998/09/17
DISPLAY UNIT	PANASONIC	1200	1998/09/17
DISPLAY UNIT	PANASONIC	1200	1998/09/17
DISPLAY UNIT	PANASONIC	1000	1998/09/17
DISPLAY UNIT	PANASONIC	1200	1998/09/17
RECORDER, VIDEO CASSETT	PANASONIC	1545	1991/12/20
DISK DRIVE UNIT	PARITY SYSTEMS	1660	1995/01/26

DISK DRIVE UNIT	PERIPHERAL LAND INC	1228	1996/03/07
GENERATOR, FUNCTION	PHILIPS ELECTRONIC I	1050	1990/08/24
OSCILLOSCOPE	PHILIPS TEST AND MEA	1763	1980/01/30
RECORDER, COMPACT DISK	PHILLIPS	699	1998/04/14
CONTROL UNIT, DATA ACQ.	PHOTONETICS INC	16010	1997/01/10
VIDEO TELECONFERENCING	PICTURETEL	4083	1997/04/16
COMPUTER, MICRO	POWER COMPUTING	2435	1996/12/16
COMPUTER, MICRO	POWER COMPUTING	2495	1996/12/31
COMPUTER, MICRO	POWER COMPUTING	6506	1996/03/26
COMPUTER, MICRO	POWER COMPUTING	4186	1996/06/28
PANEL, PROJECTION	PROXIMA CORP	8000	1992/05/11
DISPLAY UNIT	RADIUS INC	1790	1995/03/29
DISPLAY UNIT	RADIUS INC	2245	1993/09/21
DISPLAY UNIT	RADIUS INC	2584	1994/04/07
COMPUTER, MICRO	REMBRANDT INC	1762	1997/05/16
MODEM, COMMUNICATIONS	ROBOTICS INC	379	1993/09/30
MODEM, COMMUNICATIONS	ROBOTICS INC	379	1993/09/30
MODEM, COMMUNICATIONS	ROBOTICS INC	379	1993/09/30
MODEM, COMMUNICATIONS	ROBOTICS INC	379	1993/09/30
MODEM, COMMUNICATIONS	ROBOTICS INC	379	1993/09/30
DRIVER, LASER DIODES	SDL INC	4250	1997/12/05
LASER, DIODE	SDL INC	18000	1998/04/07
DRIVE, HARD	SEAGATE	4619	1999/03/19
TAPE DRIVE UNIT	SEAGATE	800	1998/09/16
SPECTROPHOTOMETER	SHIMADZU SCIENTIFIC	18506	1998/01/02
CAMERA, COMPUTER VIDEO	SILICON GRAPHICS INC	1000	1995/08/22
CAMERA, COMPUTER VIDEO	SILICON GRAPHICS INC	2500	1996/04/29
CAMERA, COMPUTER VIDEO	SILICON GRAPHICS INC	900	1995/05/31
CAMERA, COMPUTER VIDEO	SILICON GRAPHICS INC	1322	1995/09/07
CAMERA, COMPUTER VIDEO	SILICON GRAPHICS INC	900	1996/09/24
CAMERA, COMPUTER VIDEO	SILICON GRAPHICS INC	900	1996/09/24
CAMERA, COMPUTER VIDEO	SILICON GRAPHICS INC	1000	1995/01/13
CAMERA, COMPUTER VIDEO	SILICON GRAPHICS INC	1322	1995/09/07
CAMERA, TELEVISION	SILICON GRAPHICS INC	945	1994/01/21
COMPUTER, MICRO	SILICON GRAPHICS INC	20824	1994/09/19
COMPUTER, MINI	SILICON GRAPHICS INC	17704	1995/08/22
COMPUTER, MINI	SILICON GRAPHICS INC	10703	1997/08/11
COMPUTER, MINI	SILICON GRAPHICS INC	17962	1996/04/29
COMPUTER, MINI	SILICON GRAPHICS INC	19825	1993/01/26
COMPUTER, MINI	SILICON GRAPHICS INC	20158	1998/01/23
COMPUTER, MINI	SILICON GRAPHICS INC	43510	1995/10/10
COMPUTER, MINI	SILICON GRAPHICS INC	11369	1995/05/31
COMPUTER, MINI	SILICON GRAPHICS INC	7113	1992/08/14
COMPUTER, MINI	SILICON GRAPHICS INC	41495	1996/08/09
COMPUTER, MINI	SILICON GRAPHICS INC	10035	1997/07/10
COMPUTER, MINI	SILICON GRAPHICS INC	10035	1997/07/10
COMPUTER, MINI	SILICON GRAPHICS INC	10035	1997/07/10
COMPUTER, MINI	SILICON GRAPHICS INC	11446	1995/01/10
COMPUTER, MINI	SILICON GRAPHICS INC	8072	1999/03/22
COMPUTER, MINI	SILICON GRAPHICS INC	21769	1999/03/22
COMPUTER, MINI	SILICON GRAPHICS INC	27389	1997/09/17
COMPUTER, MINI	SILICON GRAPHICS INC	6758	1994/01/21
COMPUTER, MINI	SILICON GRAPHICS INC	42299	1997/05/21
COMPUTER, MINI	SILICON GRAPHICS INC	25874	1997/09/17
COMPUTER, MINI	SILICON GRAPHICS INC	12493	1996/09/24
COMPUTER, MINI	SILICON GRAPHICS INC	12493	1996/09/24
COMPUTER, MINI	SILICON GRAPHICS INC	16188	1997/08/11
COMPUTER, MINI	SILICON GRAPHICS INC	22862	1998/06/28
COMPUTER, MINI	SILICON GRAPHICS INC	8072	1999/03/22
COMPUTER, MINI	SILICON GRAPHICS INC	11446	1995/01/13
COMPUTER, MINI	SILICON GRAPHICS INC	42316	1995/10/13
COMPUTER, MINI	SILICON GRAPHICS INC	14909	1995/09/07
COMPUTER, MINI	SILICON GRAPHICS INC	113221	1993/03/23

COMPUTER, MINI	SILICON GRAPHICS INC	19604	1999/03/19
COMPUTER, MINI	SILICON GRAPHICS INC	8072	1999/03/22
DISK DRIVE UNIT	SILICON GRAPHICS INC	840	1993/01/26
DISPLAY UNIT	SILICON GRAPHICS INC	2000	1995/08/22
DISPLAY UNIT	SILICON GRAPHICS INC	862	1997/08/11
DISPLAY UNIT	SILICON GRAPHICS INC	1440	1996/04/29
DISPLAY UNIT	SILICON GRAPHICS INC	4000	1994/09/19
DISPLAY UNIT	SILICON GRAPHICS INC	1280	1993/01/26
DISPLAY UNIT	SILICON GRAPHICS INC	2500	1998/01/23
DISPLAY UNIT	SILICON GRAPHICS INC	2000	1995/10/10
DISPLAY UNIT	SILICON GRAPHICS INC	1440	1995/05/31
DISPLAY UNIT	SILICON GRAPHICS INC	4000	1992/08/14
DISPLAY UNIT	SILICON GRAPHICS INC	2000	1997/07/10
DISPLAY UNIT	SILICON GRAPHICS INC	2000	1997/07/10
DISPLAY UNIT	SILICON GRAPHICS INC	2862	1997/10/03
DISPLAY UNIT	SILICON GRAPHICS INC	2000	1995/01/13
DISPLAY UNIT	SILICON GRAPHICS INC	2000	1997/06/12
DISPLAY UNIT	SILICON GRAPHICS INC	2000	1999/03/22
DISPLAY UNIT	SILICON GRAPHICS INC	2000	1993/08/10
DISPLAY UNIT	SILICON GRAPHICS INC	2000	1997/09/17
DISPLAY UNIT	SILICON GRAPHICS INC	2000	1994/01/21
DISPLAY UNIT	SILICON GRAPHICS INC	6260	1997/05/21
DISPLAY UNIT	SILICON GRAPHICS INC	2000	1997/09/17
DISPLAY UNIT	SILICON GRAPHICS INC	1440	1996/09/24
DISPLAY UNIT	SILICON GRAPHICS INC	1440	1996/09/24
DISPLAY UNIT	SILICON GRAPHICS INC	862	1997/08/11
DISPLAY UNIT	SILICON GRAPHICS INC	2500	1998/06/28
DISPLAY UNIT	SILICON GRAPHICS INC	2000	1999/03/22
DISPLAY UNIT	SILICON GRAPHICS INC	2000	1995/10/13
DISPLAY UNIT	SILICON GRAPHICS INC	2000	1995/09/07
DISPLAY UNIT	SILICON GRAPHICS INC	2000	1999/03/22
PLAYER, COMPACT DISK	SILICON GRAPHICS INC	768	1995/05/31
TAPE DRIVE UNIT	SILICON GRAPHICS INC	1800	1995/10/10
TAPE DRIVE UNIT	SILICON GRAPHICS INC	1800	1995/10/10
TAPE DRIVE UNIT	SILICON GRAPHICS INC	1800	1995/10/13
CAMERA, DIGITAL	SONY CORP	1500	1998/11/20
DISPLAY UNIT	SONY CORPORATION	1408	1998/08/07
DISPLAY UNIT	SONY CORPORATION	1906	1997/11/20
DISPLAY UNIT	SONY CORPORATION	1695	1997/05/09
DISPLAY UNIT	SONY CORPORATION	1408	1998/08/07
DISPLAY UNIT	SONY CORPORATION	1600	1997/01/27
DISPLAY UNIT	SONY CORPORATION	3997	1991/03/15
DISPLAY UNIT	SONY CORPORATION	1906	1997/11/20
DISPLAY UNIT	SONY CORPORATION	1889	1996/09/16
DISPLAY UNIT	SONY CORPORATION	1227	1998/02/17
DISPLAY UNIT	SONY CORPORATION	1906	1997/11/20
DISPLAY UNIT	SONY CORPORATION	1408	1998/08/07
DISPLAY UNIT	SONY CORPORATION	1695	1997/05/09
DISPLAY UNIT	SONY CORPORATION	1230	1999/01/28
DISPLAY UNIT	SONY CORPORATION	1571	1996/07/08
DISPLAY UNIT	SONY CORPORATION	1486	1998/07/20
DISPLAY UNIT	SONY CORPORATION	1486	1998/07/20
DISPLAY UNIT	SONY CORPORATION	1227	1998/03/20
DISPLAY UNIT	SONY CORPORATION	1408	1998/08/07
DISPLAY UNIT	SONY CORPORATION	1290	1999/03/16
DISPLAY UNIT	SONY CORPORATION	1290	1999/03/16
DISPLAY UNIT	SONY CORPORATION	1290	1999/03/16
DISPLAY UNIT	SONY CORPORATION	1046	1999/03/19
DISPLAY UNIT	SONY CORPORATION	1046	1999/03/19
DISPLAY UNIT	SONY CORPORATION	1046	1999/03/19
DISPLAY UNIT	SONY CORPORATION	1046	1999/03/19
DISPLAY UNIT	SONY CORPORATION	1046	1999/03/19
DISPLAY UNIT	SONY CORPORATION	1290	1999/03/16

DISPLAY UNIT	SONY CORPORATION	1571	1996/07/08
DISPLAY UNIT	SONY CORPORATION	1227	1998/03/20
DISPLAY UNIT	SONY CORPORATION	2889	1991/03/01
DISPLAY UNIT	SONY CORPORATION	1695	1997/05/09
DISPLAY UNIT	SONY CORPORATION	1906	1997/11/20
DISPLAY UNIT	SONY CORPORATION	1290	1999/03/16
DISPLAY UNIT	SONY CORPORATION	3500	1990/06/21
DISPLAY UNIT	SONY CORPORATION	1906	1997/11/20
DISPLAY UNIT	SONY CORPORATION	1227	1998/03/20
MONITOR, TELEVISION	SONY CORPORATION	630	1998/01/08
MONITOR, TELEVISION	SONY CORPORATION	1523	1985/11/21
MONITOR, TELEVISION	SONY CORPORATION	1485	1998/09/17
RECORDER, VIDEO CASSETT	SONY CORPORATION	1948	1999/03/29
RECORDER, VIDEO CASSETT	SONY CORPORATION	7272	1999/03/29
LASER, HELIUM-NEON	SPECTRA-PHYSICS	6312	1988/07/27
DETECTOR, ARRAY	SPEX INDUSTRIES INC	12000	1991/09/13
SPECTROMETER	SPEX INDUSTRIES INC	15951	1991/08/23
ANALYZER, NETWORK	STANFORD RESEARCH	6500	1994/05/02
DISK DRIVE UNIT	STORAGE DIMENSIONS	1025	1992/08/24
DISK DRIVE UNIT	STORAGE DIMENSIONS	1270	1991/04/10
DISK DRIVE UNIT	STORAGE DIMENSIONS	1270	1991/03/29
DISK DRIVE UNIT	STORAGE DIMENSIONS	765	1993/03/22
COMPUTER, MICRO	SUN	11357	1998/07/08
COMPUTER, MICRO	SUN	11357	1998/07/08
COMPUTER, MICRO	SUN	11357	1998/07/08
COMPUTER, MICRO	SUN	11357	1998/07/08
COMPUTER, MICRO	SUN	11357	1998/07/08
COMPUTER, MINI	SUN	5032	1996/04/02
COMPUTER, MINI	SUN	8497	1991/03/06
COMPUTER, MINI	SUN	22763	1997/12/16
COMPUTER, MINI	SUN	15628	1998/03/27
COMPUTER, MINI	SUN	5032	1996/04/02
COMPUTER, MINI	SUN	5032	1996/10/22
COMPUTER, MINI	SUN	15752	1998/01/28
COMPUTER, MINI	SUN	11732	1997/08/18
COMPUTER, MINI	SUN	15752	1998/01/28
COMPUTER, MINI	SUN	9602	1989/04/25
COMPUTER, MINI	SUN	12510	1991/07/26
COMPUTER, MINI	SUN	15628	1998/03/27
COMPUTER, MINI	SUN	15752	1998/01/28
COMPUTER, MINI	SUN	5697	1994/08/03
COMPUTER, MINI	SUN	16445	1997/05/08
COMPUTER, MINI	SUN	11732	1997/08/18
COMPUTER, MINI	SUN	11732	1997/10/16
COMPUTER, MINI	SUN	4000	1994/07/11
COMPUTER, MINI	SUN	42545	1990/03/26
COMPUTER, MINI	SUN	10000	1992/03/25
COMPUTER, MINI	SUN	4093	1995/05/22
COMPUTER, MINI	SUN	5032	1996/10/22
COMPUTER, MINI	SUN	14391	1996/07/03
COMPUTER, MINI	SUN	12101	1996/07/26
COMPUTER, MINI	SUN	15628	1998/03/27
COMPUTER, MINI	SUN	11732	1997/10/16
COMPUTER, MINI	SUN	20025	1998/07/08
COMPUTER, MINI	SUN	5032	1996/04/02
COMPUTER, MINI	SUN	3109	1994/07/06
COMPUTER, MINI	SUN	4362	1996/01/10
COMPUTER, MINI	SUN	19662	1996/01/10
COMPUTER, MINI	SUN	4093	1995/05/17
COMPUTER, MINI	SUN	15752	1998/01/28
COMPUTER, MINI	SUN	5032	1996/10/22
COMPUTER, MINI	SUN	12329	1997/07/01
COMPUTER, MINI	SUN	11732	1996/04/02

COMPUTER, MINI	SUN	16445	1997/05/08
COMPUTER, MINI	SUN	12329	1997/07/01
COMPUTER, MINI	SUN	15752	1998/01/28
COMPUTER, MINI	SUN	10000	1992/09/29
COMPUTER, MINI	SUN	11732	1996/04/02
COMPUTER, MINI	SUN	11732	1997/10/16
COMPUTER, MINI	SUN	4093	1995/05/17
COMPUTER, MINI	SUN	16445	1997/05/08
COMPUTER, MINI	SUN	10000	1992/03/25
COMPUTER, MINI	SUN	10000	1991/09/27
COMPUTER, MINI	SUN	8000	1992/03/26
COMPUTER, MINI	SUN	16510	1991/02/25
COMPUTER, MINI	SUN	14391	1996/07/03
COMPUTER, MINI	SUN	15628	1998/03/27
COMPUTER, MINI	SUN	11357	1998/07/08
COMPUTER, MINI	SUN	12329	1997/07/01
COMPUTER, MINI	SUN	7145	1996/07/03
COMPUTER, MINI	SUN	15752	1997/06/12
COMPUTER, MINI	SUN	12329	1997/07/01
COMPUTER, MINI	SUN	12329	1997/07/01
COMPUTER, MINI	SUN	12329	1997/07/01
COMPUTER, MINI	SUN	7407	1992/08/11
COMPUTER, MINI	SUN	7916	1996/01/10
COMPUTER, MINI	SUN	11732	1997/08/18
COMPUTER, MINI	SUN	6500	1991/03/11
COMPUTER, MINI	SUN	10427	1994/01/18
COMPUTER, MINI	SUN	4093	1995/05/17
COMPUTER, MINI	SUN	4093	1995/05/22
COMPUTER, MINI	SUN	5032	1996/04/02
COMPUTER, MINI	SUN	14391	1996/07/03
COMPUTER, MINI	SUN	5032	1996/10/22
COMPUTER, MINI	SUN	5032	1996/10/22
COMPUTER, MINI	SUN	5032	1996/10/22
COMPUTER, MINI	SUN	16445	1997/05/08
COMPUTER, MINI	SUN	56430	1991/07/19
COMPUTER, MINI	SUN	6500	1991/03/12
COMPUTER, MINI	SUN	8000	1992/03/25
COMPUTER, MINI	SUN	110270	1988/08/25
COMPUTER, MINI	SUN	10000	1992/05/18
COMPUTER, MINI	SUN	82719	1994/01/14
COMPUTER, MINI	SUN	3109	1994/07/06
COMPUTER, MINI	SUN	2812	1994/07/06
COMPUTER, MINI	SUN	7145	1996/07/03
COMPUTER, MINI	SUN	11397	1996/08/03
COMPUTER, MINI	SUN	19638	1996/08/03
COMPUTER, MINI	SUN	137667	1990/03/07
COMPUTER, MINI	SUN	16309	1997/09/17
COMPUTER, MINI	SUN	15752	1998/01/28
COMPUTER, MINI	SUN	17945	1996/07/03
COMPUTER, MINI	SUN	11732	1997/08/18
COMPUTER, MINI	SUN	8834	1991/09/30
COMPUTER, MINI	SUN	17991	1998/03/27
COMPUTER, MINI	SUN	22736	1998/07/08
COMPUTER, MINI	SUN	15752	1997/06/12
COMPUTER, MINI	SUN	15752	1997/06/12
COMPUTER, MINI	SUN	15628	1998/03/27
COMPUTER, MINI	SUN	11357	1998/07/08
COMPUTER, MINI	SUN	14391	1996/07/03
DISK DRIVE UNIT	SUN	1292	1991/05/29
DISK DRIVE UNIT	SUN	3551	1996/01/10
DISK DRIVE UNIT	SUN	804	1995/04/05
DISK DRIVE UNIT	SUN	1292	1990/09/06
DISK DRIVE UNIT	SUN	8436	1991/06/14

DISK DRIVE UNIT	SUN	637	1995/03/21
DISK DRIVE UNIT	SUN	1292	1991/05/29
DISK DRIVE UNIT	SUN	4256	1990/06/21
DISK DRIVE UNIT	SUN	871	1995/03/21
DISPLAY UNIT	SUN	2000	1996/10/22
DISPLAY UNIT	SUN	2000	1996/04/02
DISPLAY UNIT	SUN	3850	1994/04/06
DISPLAY UNIT	SUN	3317	1997/12/16
DISPLAY UNIT	SUN	1407	1998/03/27
DISPLAY UNIT	SUN	2100	1988/08/25
DISPLAY UNIT	SUN	2000	1996/04/02
DISPLAY UNIT	SUN	2000	1996/10/22
DISPLAY UNIT	SUN	2000	1998/01/28
DISPLAY UNIT	SUN	2347	1994/07/22
DISPLAY UNIT	SUN	2000	1997/09/17
DISPLAY UNIT	SUN	2000	1998/01/28
DISPLAY UNIT	SUN	3847	1992/02/03
DISPLAY UNIT	SUN	1407	1998/03/27
DISPLAY UNIT	SUN	2407	1992/06/18
DISPLAY UNIT	SUN	2000	1998/01/28
DISPLAY UNIT	SUN	2000	1994/08/03
DISPLAY UNIT	SUN	2000	1997/05/08
DISPLAY UNIT	SUN	2000	1995/05/22
DISPLAY UNIT	SUN	2000	1997/08/18
DISPLAY UNIT	SUN	2000	1997/10/16
DISPLAY UNIT	SUN	1759	1994/07/11
DISPLAY UNIT	SUN	1700	1990/03/26
DISPLAY UNIT	SUN	4347	1992/03/25
DISPLAY UNIT	SUN	2000	1995/05/22
DISPLAY UNIT	SUN	1407	1998/07/08
DISPLAY UNIT	SUN	2000	1996/10/22
DISPLAY UNIT	SUN	2000	1996/07/03
DISPLAY UNIT	SUN	2000	1996/04/02
DISPLAY UNIT	SUN	1407	1998/03/27
DISPLAY UNIT	SUN	2000	1997/10/16
DISPLAY UNIT	SUN	1407	1998/07/08
DISPLAY UNIT	SUN	2000	1996/04/02
DISPLAY UNIT	SUN	3850	1994/03/01
DISPLAY UNIT	SUN	2000	1996/01/10
DISPLAY UNIT	SUN	2000	1995/05/17
DISPLAY UNIT	SUN	2000	1998/01/28
DISPLAY UNIT	SUN	2000	1996/10/22
DISPLAY UNIT	SUN	1407	1998/07/08
DISPLAY UNIT	SUN	2000	1997/07/01
DISPLAY UNIT	SUN	2000	1997/05/08
DISPLAY UNIT	SUN	3100	1988/08/25
DISPLAY UNIT	SUN	2000	1997/07/01
DISPLAY UNIT	SUN	2000	1998/01/28
DISPLAY UNIT	SUN	2000	1996/04/02
DISPLAY UNIT	SUN	2000	1997/10/16
DISPLAY UNIT	SUN	2000	1995/05/17
DISPLAY UNIT	SUN	2000	1997/05/08
DISPLAY UNIT	SUN	4347	1992/03/25
DISPLAY UNIT	SUN	3990	1993/06/18
DISPLAY UNIT	SUN	2400	1994/07/06
DISPLAY UNIT	SUN	4347	1992/09/29
DISPLAY UNIT	SUN	2000	1996/07/03
DISPLAY UNIT	SUN	2000	1996/07/03
DISPLAY UNIT	SUN	3850	1994/02/16
DISPLAY UNIT	SUN	1407	1998/07/08
DISPLAY UNIT	SUN	1407	1998/07/08
DISPLAY UNIT	SUN	2000	1997/07/01
DISPLAY UNIT	SUN	2000	1996/07/03

DISPLAY UNIT	SUN	2000	1997/06/12
DISPLAY UNIT	SUN	2000	1997/07/01
DISPLAY UNIT	SUN	2000	1997/07/01
DISPLAY UNIT	SUN	2000	1997/07/01
DISPLAY UNIT	SUN	4347	1992/03/26
DISPLAY UNIT	SUN	2000	1996/01/10
DISPLAY UNIT	SUN	3990	1993/09/09
DISPLAY UNIT	SUN	2000	1997/08/18
DISPLAY UNIT	SUN	3497	1991/03/06
DISPLAY UNIT	SUN	2497	1991/08/08
DISPLAY UNIT	SUN	2000	1993/07/12
DISPLAY UNIT	SUN	3997	1991/04/01
DISPLAY UNIT	SUN	2400	1994/07/06
DISPLAY UNIT	SUN	2000	1995/05/22
DISPLAY UNIT	SUN	2000	1996/07/03
DISPLAY UNIT	SUN	2000	1996/10/22
DISPLAY UNIT	SUN	2000	1996/10/22
DISPLAY UNIT	SUN	2000	1996/07/26
DISPLAY UNIT	SUN	2000	1996/10/22
DISPLAY UNIT	SUN	2000	1997/05/08
DISPLAY UNIT	SUN	3850	1994/04/11
DISPLAY UNIT	SUN	1407	1998/07/08
DISPLAY UNIT	SUN	1407	1998/08/11
DISPLAY UNIT	SUN	2100	1988/08/25
DISPLAY UNIT	SUN	10000	1991/07/19
DISPLAY UNIT	SUN	3847	1992/03/25
DISPLAY UNIT	SUN	4347	1991/11/15
DISPLAY UNIT	SUN	2400	1994/07/06
DISPLAY UNIT	SUN	2400	1994/07/06
DISPLAY UNIT	SUN	4347	1991/09/27
DISPLAY UNIT	SUN	3850	1994/02/16
DISPLAY UNIT	SUN	2000	1996/08/03
DISPLAY UNIT	SUN	3819	1994/01/14
DISPLAY UNIT	SUN	2647	1997/08/07
DISPLAY UNIT	SUN	2000	1997/09/17
DISPLAY UNIT	SUN	1340	1989/04/27
DISPLAY UNIT	SUN	2000	1996/08/03
DISPLAY UNIT	SUN	2000	1998/01/28
DISPLAY UNIT	SUN	1407	1998/07/08
DISPLAY UNIT	SUN	1407	1998/08/11
DISPLAY UNIT	SUN	2000	1996/07/03
DISPLAY UNIT	SUN	2000	1996/04/02
DISPLAY UNIT	SUN	2000	1997/08/18
DISPLAY UNIT	SUN	1407	1998/03/27
DISPLAY UNIT	SUN	1407	1998/08/11
DISPLAY UNIT	SUN	1407	1998/03/27
DISPLAY UNIT	SUN	1407	1998/07/08
DISPLAY UNIT	SUN	2000	1996/07/03
DRIVE, HARD	SUN	1095	1998/07/22
DRIVE, HARD	SUN	1095	1998/07/22
DRIVE, HARD	SUN	1095	1998/07/22
DRIVE, HARD	SUN	1095	1998/07/22
DRIVE, HARD	SUN	1080	1999/03/31
DRIVE, HARD	SUN	1080	1999/03/31
DRIVE, HARD	SUN	1080	1999/03/31
DRIVE, HARD	SUN	1080	1999/03/31
DRIVE, HARD	SUN	1838	1999/03/31
DRIVE, HARD	SUN	1838	1999/03/31
DRIVE, HARD	SUN	1838	1999/03/31
DRIVE, HARD	SUN	1838	1999/03/31
HARD DRIVE UNIT	SUN	2409	1998/09/22
HARD DRIVE UNIT	SUN	2409	1998/09/22
HARD DRIVE UNIT	SUN	1290	1998/03/27

HARD DRIVE UNIT	SUN	1290	1998/03/27
HARD DRIVE UNIT	SUN	1290	1998/03/27
HARD DRIVE UNIT	SUN	1290	1998/03/27
HARD DRIVE UNIT	SUN	1290	1998/03/27
PLAYER, COMPACT DISK	SUN	756	1992/02/12
PLAYER, COMPACT DISK	SUN	756	1992/06/23
PLAYER, COMPACT DISK	SUN	756	1992/06/17
PLAYER, COMPACT DISK	SUN	756	1992/06/18
PLAYER, COMPACT DISK	SUN	756	1992/06/23
PLAYER, COMPACT DISK	SUN	756	1992/06/22
STORAGE MODULE, LIBRARY	SUN	17820	1997/08/07
STORAGE SYSTEM, DISK	SUN	16104	1997/08/07
TAPE DRIVE UNIT	SUN	2161	1996/03/26
TAPE DRIVE UNIT	SUN	2161	1996/03/26
TAPE DRIVE UNIT	SUN	5025	1996/10/22
TAPE DRIVE UNIT	SUN	8540	1996/08/03
COMPUTER, MICRO	SYMBOLICS INC	500	1997/08/20
COMPUTER, MICRO	SYMBOLICS INC	500	1997/08/20
COMPUTER, MINI	SYMBOLICS INC	69000	1989/07/03
COMPUTER, MINI	SYMBOLICS INC	66250	1989/08/17
DISPLAY UNIT	SYMBOLICS INC	8000	1989/02/02
DISPLAY UNIT	SYMBOLICS INC	8000	1989/08/17
PROCESSOR	SYMBOLICS INC	20010	1986/12/12
SWITCH, ETHERNET	SYNOPTICS	13200	1995/11/09
SWITCH, ETHERNET	SYNOPTICS	30004	1995/07/05
SWITCH, ETHERNET	SYNOPTICS	8000	1995/07/05
SWITCH, ETHERNET	SYNOPTICS	8000	1995/07/05
SWITCH, ETHERNET	SYNOPTICS	13200	1995/11/09
SWITCH, ETHERNET	SYNOPTICS	13200	1995/11/09
SWITCH, ETHERNET	SYNOPTICS	13200	1995/11/09
SWITCH, ETHERNET	SYNOPTICS	13678	1995/11/21
SWITCH, ETHERNET	SYNOPTICS	13678	1995/11/21
SWITCH, ETHERNET	SYNOPTICS	13678	1995/11/21
SWITCH, ETHERNET	SYNOPTICS	12779	1996/08/09
SWITCH, ETHERNET	SYNOPTICS	12779	1996/08/09
SWITCH, ETHERNET	SYNOPTICS	12779	1996/08/09
CONTROLLER, MODULATOR	TECHNOLOGY	5500	1990/02/14
OSCILLOSCOPE	TEKTRONIX INC	7045	1993/01/15
OSCILLOSCOPE	TEKTRONIX INC	1100	1983/03/10
OSCILLOSCOPE	TEKTRONIX INC	2050	1982/06/09
OSCILLOSCOPE	TEKTRONIX INC	1450	1984/08/07
OSCILLOSCOPE	TEKTRONIX INC	15014	1995/04/25
PRINTER, ADP	TEKTRONIX INC	14125	1995/03/30
SCANNER, COLOR	TEKTRONIX INC	1450	1995/03/30
COMPUTER, MICRO	TOSHIBA AMERICA INC	4266	1995/10/25
COMPUTER, PORTABLE	TOSHIBA AMERICA INC	3425	1997/09/09
COMPUTER, PORTABLE	TOSHIBA AMERICA INC	3425	1997/09/09
COMPUTER, PORTABLE	TOSHIBA AMERICA INC	2300	1997/06/06
PLAYER, COMPACT DISK	TOSHIBA AMERICA INC	768	1995/02/03
DISK DRIVE UNIT	TOSHIBA HOSHASEN	840	1993/08/10
PLAYER, COMPACT DISK	TOSHIBA HOSHASEN	840	1992/01/30
AMPLIFIER	TREK INC	1995	1993/01/05
MESSAGE PAD,,COMMUNICAT	U S ROBOTICS	358	1997/11/18
MODEM, COMMUNICATIONS	U S ROBOTICS	289	1998/02/11
MODEM, COMMUNICATIONS	U S ROBOTICS	424	1995/08/08
MODEM, COMMUNICATIONS	U S ROBOTICS INC	414	1994/01/04
MODEM, COMMUNICATIONS	U S ROBOTICS INC	414	1994/01/04
MODEM, COMMUNICATIONS	U S ROBOTICS INC	377	1994/01/14
MODEM, COMMUNICATIONS	U S ROBOTICS INC	414	1994/01/04
MODEM, COMMUNICATIONS	U S ROBOTICS INC	377	1994/01/14
LASER, HELIUM-NEON	UNIPHASE CORP	1552	1992/05/01
LASER, HELIUM-NEON	UNIPHASE CORP	1552	1992/05/01
COMPUTER, MICRO	VA RESEARCH	4832	1998/09/17

COMPUTER, MICRO	VA RESEARCH	4832	1998/09/17
COMPUTER, MICRO	VA RESEARCH	4832	1998/09/17
DISPLAY UNIT	VIEWSONIC	1000	1998/06/03
DISPLAY UNIT	VIEWSONIC	649	1998/09/25
DISPLAY UNIT	VIEWSONIC	1083	1998/02/04
TERMINAL, SERVER	XYNETICS INC OF ELEC	5627	1992/01/15
TERMINAL, SERVER	XYNETICS INC OF ELEC	4594	1991/08/14
TERMINAL, SERVER	XYNETICS INC OF ELEC	4594	1991/08/14
TERMINAL, SERVER	XYNETICS INC OF ELEC	4594	1991/08/14
MICROSCOPE, STEREO	ZEISS CARL INC	2907	1963/07/09
MONITOR, TELEVISION	ZYGO CORP	700	1986/04/21

A-3 Contract Data Requirements List

CONTRACT DATA REQUIREMENTS LIST (CDRL)
COMPUTATIONAL SCIENCES RESEARCH AND DEVELOPMENT SERVICES
RFP2-37050 (CDT) **MARCH 1, 2000**

Line	DRD Title	Frequency	Submission Date	Data Type	Distribution
1	Monthly Progress Report	Monthly	10 Working days after the end of the month	Mandatory Submittal	• Contracting Officer's Tech Rep (COTR) Code IC, M/S 269-1, • Contracting Officer (CO) Code JA, M/S 241-1
Remarks: The Contractor shall provide the Government with a monthly technical management, business management, and technical performance summary. The report shall contain at least: Accomplishments in that month per CTO, Work to be performed next month, Problems encountered pertaining to performing the work with recommended actions, Training received. The report shall also include itemized monthly labor hours consistent with the NF 533 reports, and a Employee Roster with schedule of hours.					
2	Contract Task Order Completion Report	As Needed	15 calendar days after completion of a CTO	Mandatory Submittal	• COTR, Code IC, M/S 269-1 • CO, Code JA, M/S 241-1
Remarks: The report shall document and summarize the result of all work performed under the CTO, and conclusions based on the experience and results. This report shall also include an itemized record of expenditures.					
3	Financial Manageme nt Reports (Initial, Monthly, Quarterly)	Once, Monthly, Quarterly	see remarks	Mandatory Submittal	• COTR, Code IC, M/S 269-1 • CO, Code JA, M/S 241-1 • Resources Management Office, Code CR M/S 201-2 • Financial Management Division, Code CF M/S 203-18
Remarks: Initial Report Due 10 days after contract award. Monthly Reports due 10 days after the end of the month being reported. Quarterly Report is due on the 15th of the month preceding the quarter being reported.					
4	Monthly Accident Report (ARC Form 15)	Monthly	10 working days after the end of the month	Mandatory Submittal	• COTR, Code IC, M/S 269-1 • CO, Code JA, M/S 241-1 • Resources Management Office, Code CR M/S 201-2 • Safety Office, Code QH M/S 218-1
Remarks: If no accidents occur in a month, a negative report is still required					
5	NASA Mishap Report (NASA Form 1627)	As Needed	Within 1 working day of a mishap occurrence	Mandatory Submittal	• COTR, Code IC, M/S 269-1 • CO, Code JA, M/S 241-1
Remarks: NONE					
6	Phase-In Plan	Once	10 working days after contract award	Mandatory Submittal	• COTR, Code IC, M/S 269-1 • CO, Code JA, M/S 241-1
Remarks: NONE					
7	Phase-Out Plan	Once	90 calendar days prior to contract completion	Mandatory Submittal	• COTR, Code IC, M/S 269-1 • CO, Code JA, M/S 241-1
Remarks: NONE					
8	New Technology Report	Annual	By the end of the month following the close of the reporting period	Mandatory Submittal	• COTR, Code IC, M/S 269-1 • CO, Code JA, M/S 241-1 • Technology Utilization Office, Code DK, M/S 202A-3

Remarks: In accordance with NASA FAR Supplement 1852.227-70					
9	Centrally Reportable Equipment (DD 1419)	As Needed	30 calendar days prior to acquisition of property	Mandatory Submittal	• CO, Code JA, M/S 241-1 • Equipment Mgmt Specialist, Code JES, MS 255-2
Remarks: In accordance with NASA FAR Supplement 1852.245-70					
10	Safety and Health Plan	Once	30 calendar days after contract award	Mandatory Submittal	• COTR, Code IC, M/S 269-1 • CO, Code JA, M/S 241-1 • Safety Office, Code QH M/S 218-1
Remarks: NONE					
11	Mgmt Plan	Once	30 calendar days after contract award	Mandatory Submittal	• COTR, Code IC, M/S 269-1 • CO, Code JA, M/S 241-1
Remarks: NONE					