

SOLICITATION, OFFER AND AWARD

1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 7900) RATING N/A PAGE 1 OF 83 PAGES

2. CONTRACT NUMBER: NNG12PL17C

3. SOLICITATION NUMBER: NNG11341433R

4. TYPE OF SOLICITATION: SEALED BID (IFB) NEGOTIATED (RFP)

5. DATE ISSUED: [Blank]

6. REQUISITION/PURCHASE NUMBER: 4200341433

7. ISSUED BY: NASA/Goddard Space Flight Center (GSFC), Greenbelt, MD 20771
Attn: Michele R. Connerton Mail Code 210.S

8. ADDRESS OFFER TO (If other than item 7): See solicitation provision entitled, "Proposal Marking and Delivery"

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder".

SOLICITATION

9. Sealed offers in original and See L.10 copies for furnishings the supplies or services in the Schedule will be received at the place specified in item 8, or if hand carried, in the depository located in See RFP Provision L.15 until 2:00 local time May 31, 2011 (Hour) (Date)

CAUTION - LATE Submissions, Modifications, and Withdrawals: See Section L, Provision No. 52.214-7 or 52.215-1. All offers are subject to all terms and conditions contained in this solicitation.

10. FOR INFORMATION CALL: Michele R. Connerton

A. NAME: Michele R. Connerton

B. TELEPHONE (NO COLLECT CALLS): AREA CODE 301, NUMBER 2866640, EXT. [Blank]

C. E-MAIL ADDRESS: Michele.R.Connerton@nasa.gov

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OFFER (Must be fully completed by offeror)

NOTE: Item 12 does not apply if the solicitation includes the provisions at 52.214-16, Minimum Bid Acceptance Period.

12. In compliance with the above, the undersigned agrees, if this offer is accepted within 180 calendar days (60 calendar days unless a different period is inserted by the offeror) from the date for receipt of offers specified above, to furnish any or all items upon which prices are offered at the set opposite each item, delivered at the designated point(s), within the time specified in the schedule.

13. DISCOUNT FOR PROMPT PAYMENT (See Section I, Clause No. 52.232-8)

10 CALENDAR DAYS (%)	20 CALENDAR DAYS (%)	30 CALENDAR DAYS (%)	CALENDAR DAYS(%)
0	0	0	0

14. ACKNOWLEDGMENT OF AMENDMENTS (The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated):

AMENDMENT NO.	DATE	AMENDMENT NO.	DATE
01	05/09/2011	03	05/09/2012
02	05/24/2011		

15A. NAME AND ADDRESS OF OFFEROR: ADNET Systems, Inc., 164 Rollins Avenue, Suite 303, Rockville, MD 20852

CODE: 1HAJ8

FACILITY: [Blank]

16. NAME AND THE TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print): Ashok Jha, President & CEO

15B. TELEPHONE NUMBER: AREA CODE 301, NUMBER 2218214, EXT. [Blank]

15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER SUCH ADDRESS IN SCHEDULE.

17. SIGNATURE: [Signature]

18. OFFER DATE: 8/27/2012

AWARD (To be completed by Government)

19. ACCEPTED AS TO ITEMS: [Blank]

20. AMOUNT: [Blank]

21. ACCOUNTING AND APPROPRIATION: [Blank]

22. AUTHORITY FOR USING OTHER THAN FULL OPEN COMPETITION: 10 U.S.C. 2304 (c) 41 U.S.C. 253 (c)

23. SUBMIT INVOICES TO ADDRESS SHOWN IN (4 copies unless otherwise specified): ITEM Clause G.2

24. ADMINISTERED BY (If other than item 7): [Blank]

25. PAYMENT WILL BE MADE BY: NASA Shared Service Center (NSSC), Financial Management Division (FMD) - Accounts Payable, Building 1111, C Road, Stennis Space Center, MS 39529

26. NAME OF CONTRACTING OFFICER (Type or print): Michele R. Connerton

27. UNITED STATES OF AMERICA: [Signature]

28. AWARD DATE: 8/27/12

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**SECTION B OF NNG11341433R
SUPPLIES OR SERVICES AND PRICES/COSTS**

SECTION B - SUPPLIES OR SERVICES AND PRICE/COST

B.1 SUPPLIES AND OR SERVICES TO BE PROVIDED

The Contractor shall provide all resources (except as may be expressly stated in the contract as furnished by the Government) necessary to deliver and/or perform the items below in accordance with the Description/Specifications/Statement of Work (SOW) incorporated as Attachments A and B.

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>REFERENCE</u>	<u>DUE DATE</u>
1.	Services in accordance with the SOW	J.1, Attachment A and Attachment B	Attachments A & B
2.	Notice of Estimated Cost Increases	B.3	As required
3.	NASA Financial Management Reports	G.1 and G.4	Monthly and Quarterly
4.	Financial Reporting of NASA Property in the Custody of Contractor's	G.7	Annually (10/15) and Final Report as specified
5.	Requests for Government Property	G.5	As required
6.	New Technology/Patent Reportable Items	G.3	As required
7.	Monthly Contract Progress Reports	C.2	Monthly
8.	Foreign Travel Requests and Reports	G.10	30 days prior to and after completion of travel
9.	Personnel Identity Verification Documentation and Reporting	H.4, Attachment K	As required
10.	Request to Publish or Present Technical Papers	H.9	As required

**SECTION B OF NNG11341433R
SUPPLIES OR SERVICES AND PRICES/COSTS**

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>REFERENCE</u>	<u>DUE DATE</u>
11.	IT Security Management Plan	H.11	Due 30 days after contract effective date
12.	Safety and Health Reporting	H.7	Monthly and as required
13.	Reserved.		
14.	Equal Opportunity Reports	I.36	As required

(End of Text)

B. 2 NONPROPOSED COSTS (GSFC 52.216-94) (FEB 1991)

(a) The total estimated cost of this contract includes the following estimated costs:

Other Direct Costs	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Travel	(b) (4)					
Equipment/ Materials						
Other ODC's*						
TOTAL ODC's						

*Other ODC's are defined as conference and workshop expenses, outreach materials and other miscellaneous direct items necessary to support the SOW requirements.

(b) These costs are the Government's best estimate of what the actuals will be. There will be no adjustment in the fee(s) of the contract should the actuals be different than these estimates, unless additional effort is added to the contract or there is a change to the contract under the Changes clause of this contract which impacts these estimates.

(End of clause)

B.3 ESTIMATED COST INCREASES (GSFC 52.232-94) (DEC 2005)

(a) The Contractor shall notify the Contracting Officer in writing when the Contractor has reason to believe that the total cost for performance of this contract, or any individual task order,

**SECTION B OF NNG11341433R
SUPPLIES OR SERVICES AND PRICES/COSTS**

exclusive of any fee, will be either greater or substantially less than the total estimated cost stated in this contract or in the task order. Notification shall not be delayed pending preparation of a proposal.

(b) A proposal is required to support a request for an increase in the estimated cost of the contract or the task order. The proposal should be submitted as soon as possible after the above notification but no later than 115 days before the incurred costs are expected to exceed the estimated cost. This will allow adequate time for the Government to evaluate the proposal and to mutually establish any increase in estimated cost with the Contractor.

(c)(1) The proposal shall be submitted in the following format unless some other format is directed or approved by the Contracting Officer:

Incurred costs to date
Projected cost to completion
Total cost at completion
Current negotiated estimated cost
Requested increase in estimated cost

(2) The “projected cost to completion” shall consist of the following “other than cost or pricing data” unless the Contracting Officer requests or approves the submittal of a greater or lesser amount of information:

(i) Elements of cost with supporting detail for estimated direct labor hours, direct and indirect rates, materials and subcontracts, and other elements.

(ii) Supporting explanation for the increases and projections, sufficient for the Government to understand the reasons for the increased estimated cost.

(End of clause)

B.4 ESTIMATED COST AND FIXED FEE (1852.216-74) (DEC 1991)

The estimated cost of this contract is \$TBP exclusive of the fixed fee of \$TBP. The total estimated cost and fixed fee is \$TBP.

TBP = To Be Proposed

(End of clause)

B.5 PAYMENT OF FIXED FEE (1852.216-75) (DEC 1988)

The fixed fee shall be paid in monthly installments based upon the percentage of completion of work as determined by the Contracting Officer.

(End of clause)

**SECTION B OF NNG11341433R
SUPPLIES OR SERVICES AND PRICES/COSTS**

B. 6 CONTRACT FUNDING (1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitation of Funds clause, the total amount allotted by the Government to this contract is **\$TBD**. This allotment is for all services performed and covers the following estimated period of performance: **(TBD)**

(b) An additional amount of **\$TBD** is obligated under this contract for payment of fee.

TBD = To Be Determined

(End of clause)

B. 7 OPTION TO EXTEND—SERVICE CONTRACT (52.217-93) (DEC 1992)

This contract may be extended at the option of the Government in accordance with FAR clause 52.217-9, “Option to Extend the Term of the Contract” in Section I. The option periods and prices or costs and any fees are as follows:

Option	Period of Performance	Amount	
1	Three years after the effective date of the contract through 24 months thereafter	Estimated Cost	\$TBP
		Fixed Fee	\$TBP
		Total CPFF	\$TBP

(End of clause)

**SECTION C OF NNG11341433R
DESCRIPTION/SPECIFICATIONS/WORK STATEMENT**

SECTION C – DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C.1 SCOPE OF WORK (GSFC 52.211-91) (FEB 1991)

The Contractor shall provide the personnel, materials, and facilities, except as otherwise provided in the contract, necessary to perform the specialized support services as described in Section J, Attachment A, entitled, “Statement of Work” and Attachment B, entitled “SOW Addendum” and to furnish the items specified in Section B of this contract.

(End of clause)

C.2 REPORTS OF WORK

(a) Monthly progress reports. The Contractor shall submit monthly progress reports of all work accomplished during each month of contract performance. Reports shall be in narrative form and brief and informal in content. They shall include a quantitative description of overall progress, an indication of any current problems which may impede performance and proposed corrective action, and a discussion of the work to be performed during the next monthly reporting period.

(b) Report Documentation Page. The copies provided to the Center for Aerospace Information shall have a completed Standard Form 298, Report Documentation Page, as the last page. Refer to NASA FAR Supplement clause 1852.235-73, “FINAL SCIENTIFIC AND TECHNICAL REPORTS” of this contract.

(c) Submission. The Contractor shall submit the report required by this clause as follows:

[M=Monthly, F=Final]

Copies	Report Type	Addressee	Mail Code
1	M,F	Contracting Officer	210.8
1	M,F	Contracting Officer’s Technical Representative (COTR)	606.1
1	F	Center for AeroSpace Information (CASI) Attn: Acquisitions Collections Development Specialist 7115 Standard Drive, Hanover, Maryland 21076-1320	

SECTION C OF NNG11341433R
DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

(d) Submission dates. Monthly reports shall be submitted by the 15th day of the month following the month being reported. The final report shall be submitted within 30 days after completion of the contract.

(End of Text)

C.3 NEW AND MODIFIED FUNDING PROCEDURES

As described in C.1, Scope of Work, the Contractor shall perform, from the effective date of the contract, the services described in Attachment B, SOW Addendum. Variations to the range of services shall be handled as follows:

(a) New Work Activity Plan (WAP) Funding Identification Procedures:

1. When the Contractor is requested to perform a new activity(is) within the scope of the contract, the Contractor shall generate a new 7-digit identification using the following parameters:
 - The first 5 alpha numeric characters represent the organization’s Code requiring support; e.g., Code 600 would be for 600.0; Code 610.3 would be 610.3; and Code 690 would be 690.0.
 - The next 3 digits are a sequential numbering system, 001-999, assigned by the Contractor to the particular organization’s work to date (e.g., if this is the 21st separate WAP for Code 610.3, the funding identification number is extended to be “610.3-021”). Once a number has been used once, it will never be used again. If 610.3-021 is used and then the WAP gets terminated, the Contractor will not re-use 610.3-021. Instead, the next WAP for Code 610.3 will be 610.3-022.
2. The Contractor shall then prepare a general description of how it intends to support the work, generate a unique staffing plan for that work, along with the total estimated cost—from the planned start date through the remaining contract year and provide that documentation to the appropriate Resource Analyst (RA) for the funding organization. The Government will, in turn, use its own internal process to ensure that funds are available to support that work. The Government process includes concurrence of the associated cost to ensure that sufficient funds are available to support the activity, from:
 - The Work Monitor (WM), who is the funding organization’s technical representative;
 - The Organization’s Resource Analyst
 - The Organization's Line Management
 - Contract Resource Analyst (RA) to verify that adequate funds are available for the work;
 - The Contracting Officer’s Technical Representative (COTR)

SECTION C OF NNG11341433R
DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

- The Contracting Officer shall notify the Contractor, either verbally or in writing, that work may proceed.

(b) Modified Identification Numbers:

1. Occasionally, an established WAP will need adjustment. Should this occur, the process is the same as described in paragraph (a) above. The Contractor shall modify Section 1: General Information, of the WAP, to add a line entitled, “Revision Number”. The “Revision Number” line shall designate how many revisions have been made to the original WAP. The Contractor shall keep a record of the original WAP and will be able to track the changes that have made per each revision.
2. The Contractor shall prepare a general description of how it intends to support the modified work and the effect to the original workload, if any, along with the modified staffing plan(s) and revised estimated cost(s). This documentation should follow the approval process as outlined in step 2 under part (a) above.

(End of text)

C.4 VARIATIONS IN SERVICE LEVELS

1. The total estimated cost and fee of this contract are based upon the Contractor’s estimate of the magnitude of effort required to provide the services described in Section J, Attachment A and addenda thereto (Attachment B, entitled “SOW Addendum”), for the term of the contract.
2. The Contractor will perform its duties in a dynamic environment in which the range of effort required to support GSFC’s Space and Earth science activities will vary. Range of effort is comprised of all activities to be supported and resources to be used in the delivery of support.
 - (a) “Activities” include any organizations, laboratories, programs, projects, systems, and tasks funded during the course of the contract.
 - (b) “Resources” include all labor, skills, professions, facilities (except as otherwise provided in the contract), supplies and materials required to deliver high quality and timely support.
3. During the term of the contract, the Contractor shall deliver support in all functional areas identified in Attachment A, Statement of Work, across the full range of effort identified by the Contracting Officer or his/her technical representative, regardless of the magnitude of effort actually required. The Contractor understands and agrees to the following:

SECTION C OF NNG11341433R
DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

(a) Variation in the number or type of specific activities to be supported shall not constitute a change to the contract, and shall not entitle the Contractor to an equitable adjustment.

(b) Variation in the magnitude or mix of resources needed by the Contractor to deliver support shall not constitute a change to the contract, and shall not entitle the Contractor to an equitable adjustment.

4. Substantial expansion of the functional areas of responsibility, as established in Attachment A, Statement of Work, may constitute a change to the scope of the contract; however, the Contractor understands that the Attachment A, Statement of Work, is intended to be construed broadly to achieve objectives in the Sciences and Exploration Directorate.

(End of text)

**C.5 LIMITED RIGHTS DATA OR RESTRICTED COMPUTER SOFTWARE
(GSFC 52.227-90) (MAR 2008)**

In accordance with the delivery requirements of this contract, all software data rights shall be delivered in accordance with the Rights in Data – General clause, specified elsewhere in this contract, except for the following:

NONE

(End of clause)

**SECTION D OF NNG11341433R
PACKAGING AND MARKING**

SECTION D – PACKAGING AND MARKING

[THERE ARE NO CLAUSES IN THIS SECTION.]

**SECTION E OF NNG11341433R
INSPECTION AND ACCEPTANCE**

SECTION E – INSPECTION AND ACCEPTANCE

E.1 ACCEPTANCE--SINGLE LOCATION (GSFC 52.246-92) (APR 2008)

The Contracting Officer or authorized representative will accomplish acceptance at the NASA/Goddard Space Flight Center (GSFC) unless specified elsewhere in the Attachment B, SOW Addendum. For the purpose of this clause, the Contracting Officer's Technical Representative named in this contract is the authorized representative. The Contracting Officer reserves the right to designate a different Government agent as the authorized representative. The Contractor will be notified by a written notice or by a copy of the delegation of authority if different representative is designated.

(End of clause)

E.2 INSPECTION SYSTEM RECORDS (GSFC 52.246-102) (OCT 1988)

The Contractor shall maintain records evidencing inspections in accordance with the Inspection clause of this contract for 3 years after delivery of all items and/or completion of all services called for by the contract.

(End of clause)

**E.3 INSPECTION OF SERVICES – COST REIMBURSEMENT (FAR 52.246-5)
(APR 1984)**

- (a) Definition. "Services," as used in this clause, includes services performed, workmanship, and material furnished or used in performing services.
- (b) The Contractor shall provide and maintain an inspection system acceptable to the Government covering the services under this contract. Complete records of all inspection work performed by the Contractor shall be maintained and made available to the Government during contract performance and for as long afterwards as the contract requires.
- (c) The Government has the right to inspect and test all services called for by the contract, to the extent practicable at all places and times during the term of the contract. The Government shall perform inspections and tests in a manner that will not unduly delay the work.
- (d) If any of the services performed do not conform with contract requirements, the Government may require the Contractor to perform the services again in conformity with contract requirements, for no additional fee. When the defects in services cannot be corrected by reperformance, the Government may—

**SECTION E OF NNG11341433R
INSPECTION AND ACCEPTANCE**

(1) Require the Contractor to take necessary action to ensure that future performance conforms to contract requirements; and

(2) Reduce any fee payable under the contract to reflect the reduced value of the services performed.

(e) If the Contractor fails to promptly perform the services again or take the action necessary to ensure future performance in conformity with contract requirements, the Government may—

(1) By contract or otherwise, perform the services and reduce any fee payable by an amount that is equitable under the circumstances; or

(2) Terminate the contract for default.

(End of clause)

**SECTION F OF NNG11341433R
DELIVERIES OR PERFORMANCE**

SECTION F – DELIVERIES OR PERFORMANCE

F. 1 PLACE OF PERFORMANCE--SERVICES (GSFC 52.237-92) (OCT 1988)

The services specified by this contract shall be performed at the following location(s): Goddard Space Flight Center, Greenbelt, MD 20771 and Contractor's facility. Space will be made available for approximately 300 Contractor provided personnel at the GSFC facility.

(End of clause)

F. 2 STOP-WORK ORDER (52.242-15) (AUG 1989)--ALTERNATE I (APR 1984)

(a) The Contracting Officer may, at any time, by written order to the Contractor, require the Contractor to stop all, or any part, of the work called for by this contract for a period of 90 days after the order is delivered to the Contractor, and for any further period to which the parties may agree. The order shall be specifically identified as a stop-work order issued under this clause. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order during the period of work stoppage. Within a period of 90 days after a stop-work order is delivered to the Contractor, or within any extension of that period to which the parties shall have agreed, the Contracting Officer shall either--

(1) Cancel the stop-work order; or

(2) Terminate the work covered by the order as provided in the Termination clause of this contract.

(b) If a stop-work order issued under this clause is canceled or the period of the order or any extension thereof expires, the Contractor shall resume work. The Contracting Officer shall make an equitable adjustment in the delivery schedule, the estimated cost, the fee, or a combination thereof, and in any other terms of the contract that may be affected.

(1) The stop-work order results in an increase in the time required for, or in the Contractor's cost properly allocable to, the performance of any part of this contract; and

(2) The Contractor asserts its right to the adjustment within 30 days after the end of the period of work stoppage; provided, that, if the Contracting Officer decides the facts justify the action, the Contracting Officer may receive and act upon the claim submitted at any time before final payment under this contract.

**SECTION F OF NNG11341433R
DELIVERIES OR PERFORMANCE**

(c) If a stop-work order is not canceled and the work covered by the order is terminated for the convenience of the Government, the Contracting Officer shall allow reasonable costs resulting from the stop-work order in arriving at the termination settlement.

(d) If a stop-work order is not canceled and the work covered by the order is terminated for default, the Contracting Officer shall allow, by equitable adjustment or otherwise, reasonable costs resulting from the stop-work order.

(End of clause)

F.3 PERIOD OF PERFORMANCE

The basic period of performance of this contract shall be for a period of three (3) years from the contract effective date of **TBD**. In accordance with clause B.7 Option to Extend—Service Contract" and FAR clause 52.217-9, this contract may be extended for two additional years through the exercise of Option 1.

The total period of performance, including option exercise, shall not exceed 5 years.

(End of Text)

**F.4 SHIPPING INSTRUCTIONS--CENTRAL RECEIVING (GSFC 52.247-94)
(JUN 2006)**

Shipments of the items required under this contract shall be to:

Receiving Officer
Building 16W
Code 279
Goddard Space Flight Center
Greenbelt, Maryland 20771

Marked for:

Technical Officer: Jeffrey Simpson, Code 606
Building: 28/Room W239
Contract No. TBD
Item(s) No. TBD

Compliance with this clause is necessary to assure verification of delivery and acceptance and prompt payment.

(End of clause)

**SECTION F OF NNG11341433R
DELIVERIES OR PERFORMANCE**

F.5 F.O.B. DESTINATION (52.247-34) (NOV 1991)

(a) The term “f.o.b. destination,” as used in this clause, means—

(1) Free of expense to the Government, on board the carrier’s conveyance, at a specified delivery point where the consignee’s facility (plant, warehouse, store, lot, or other location to which shipment can be made) is located; and

(2) Supplies shall be delivered to the destination consignee’s wharf (if destination is a port city and supplies are for export), warehouse unloading platform, or receiving dock, at the expense of the Contractor. The Government shall not be liable for any delivery, storage, demurrage, accessorial, or other charges involved before the actual delivery (or “constructive placement” as defined in carrier tariffs) of the supplies to the destination, unless such charges are caused by an act or order of the Government acting in its contractual capacity. If rail carrier is used, supplies shall be delivered to the specified unloading platform of the consignee. If motor carrier (including “piggyback”) is used, supplies shall be delivered to truck tailgate at the unloading platform of the consignee, except when the supplies delivered meet the requirements of Item 568 of the National Motor Freight Classification for “heavy or bulky freight.” When supplies meeting the requirements of the referenced Item 568 are delivered, unloading (including movement to the tailgate) shall be performed by the consignee, with assistance from the truck driver, if requested. If the contractor uses rail carrier or freight forwarded for less than carload shipments, the contractor shall ensure that the carrier will furnish tailgate delivery, when required, if transfer to truck is required to complete delivery to consignee.

(b) The Contractor shall—

(1)(i) Pack and mark the shipment to comply with contract specifications; or

(ii) In the absence of specifications, prepare the shipment in conformance with carrier requirements;

(2) Prepare and distribute commercial bills of lading;

(3) Deliver the shipment in good order and condition to the point of delivery specified in the contract;

(4) Be responsible for any loss of and/or damage to the goods occurring before receipt of the shipment by the consignee at the delivery point specified in the contract;

(5) Furnish a delivery schedule and designate the mode of delivering carrier; and

(6) Pay and bear all charges to the specified point of delivery.

(End of clause)

**SECTION G OF NNG11341433R
CONTRACT ADMINISTRATION DATA**

SECTION G– CONTRACT ADMINISTRATION DATA

G. 1 FINANCIAL MANAGEMENT REPORTING (GSFC 52.242-90) (MAR 2011)

(a) Requirements. This clause provides the supplemental instructions referred to in NASA FAR Supplement (NFS) clause 1852.242-73. The NFS clause and NASA Procedural Requirements (NPR) 9501.2D, “NASA Contractor Financial Management Reporting”, establish report due dates and other financial management reporting requirements. NPR 9501.2D permits withholding of payment for noncompliance.

(b) Supplemental instructions. (1) Monthly (NF 533M) reports are required. Quarterly (NF 533Q) reports are also required. The reporting structure shall be in accordance with Attachment H of Section J of this contract.

(2) As stated in NPR 9501.2D, NASA strongly encourages electronic contractor cost reporting. The preferred formats are Excel and Adobe. Contact the Contracting Officer for any E-Mail addresses that are not provided or which become noncurrent.

Distribution shall be as follows:

*Contracting Officer, Michele Connerton, Code 210.8
E-Mail: Michele.R.Connerton@nasa.gov

*Contracting Officer’s Technical Representative, Jeffrey Simpson, Code 606
E-Mail: Jeffrey.M.Simpson@nasa.gov

*Resources Analyst, Debbie Williams, Code 603
E-Mail: Debbie.J.Williams@nasa.gov

Regional Finance Office Cost Team, Code 155
E-Mail: rfocateam@listserv.gsfc.nasa.gov

Administrative Contracting Officer (if delegated)

(c) Web site. NPR 9501.2D, “NASA Contractor Financial Management Reporting”:

<http://nodis3.gsfc.nasa.gov/displayDir.cfm?t=NPR&c=9501&s=2D>

(End of clause)

**SECTION G OF NNG11341433R
CONTRACT ADMINISTRATION DATA**

G.2 SUBMISSION OF VOUCHERS FOR PAYMENT (18-52.216-87)(MAR 1998)

(a) The designated billing office for cost vouchers for purposes of the Prompt Payment clause of this contract is indicated below. Public vouchers for payment of costs shall include a reference to the number of this contract.

(b)(1) If the contractor is authorized to submit interim cost vouchers directly to the NASA paying office, the original voucher and one copy should be submitted to:

NASA Shared Services Center (NSSC)
Financial Management Division (FMD) – Accounts Payable
Bldg. 1111, C. Road
Stennis Space Center, MS 39529
Phone#: 1-877-677-2123
Fax: 1-866-209-5415
Email: NSSC-AccountsPayable@nasa.gov

(2) For any period that the Defense Contract Audit Agency has authorized the Contractor to submit interim cost vouchers directly to the Government paying office, interim vouchers are not required to be sent to the Auditor, and are considered to be provisionally approved for payment subject to final audit.

(3) Copies of vouchers should be submitted as may be directed by the Contracting Officer.

(c) If the contractor is not authorized to submit interim cost vouchers directly to the paying office as described in paragraph (b), the contractor shall prepare and submit vouchers as follows:

(1) One original and one copy Standard Form (SF)1034, SF 1035, or equivalent Contractor's attachment to the Auditor.

(NASA or DCAA auditor address to be provided at time of award)

(2) (Reserved)

(3) The Contracting Officer may designate other recipients as required.

(d) Public vouchers for payment of fee shall be prepared similarly to the procedures in paragraphs (b) or (c) of this clause, whichever is applicable, and be forwarded to the Contracting Officer and NSSC:

NASA Shared Services Center (NSSC)
Financial Management Division (FMD) – Accounts Payable
Bldg. 1111, C. Road

**SECTION G OF NNG11341433R
CONTRACT ADMINISTRATION DATA**

Stennis Space Center, MS 39529

The NSSC is the designated billing office for fee vouchers for purposes of the Prompt Payment clause of this contract.

(e) In the event that amounts are withheld from payment in accordance with provisions of this contract, a separate voucher for the amount withheld will be required before payment for that amount may be made.

(End of clause)

**G.3 DESIGNATION OF NEW TECHNOLOGY REPRESENTATIVE AND
PATENT REPRESENTATIVE (1852.227-72) (JULY 1997)**

(a) For purposes of administration of the clause of this contract entitled "New Technology" or "Patent Rights – Ownership by the Contractor", whichever is included, the following named representatives are hereby designated by the Contracting Officer to administer such clause:

Title	Office Code	Address (including zip code)
New Technology	504	Goddard Space Flight Center Representative Greenbelt, MD 20771
Patent	140.1	Goddard Space Flight Center Representative Greenbelt, MD 20771

(b) Reports of reportable items, and disclosure of subject inventions, interim reports, final reports, utilization reports, and other reports required by the clause, as well as any correspondence with respect to such matters, should be directed to the New Technology Representative unless transmitted in response to correspondence or request from the Patent Representative. Inquiries or requests regarding disposition of rights, election of rights, or related matters should be directed to the Patent Representative. This clause shall be included in any subcontract hereunder requiring a "New Technology" clause or "Patent Rights—Ownership by the Contractor" clause, unless otherwise authorized or directed by the Contracting Officer. The respective responsibilities and authorities of the above-named representatives are set forth in 1827.305-370 of the NASA FAR Supplement.

(End of clause)

**SECTION G OF NNG11341433R
CONTRACT ADMINISTRATION DATA**

**G.4 NASA CONTRACTOR FINANCIAL MANAGEMENT REPORTING
(1852.242-73) (NOV 2004)**

(a) The Contractor shall submit NASA Contractor Financial Management Reports on NASA Forms 533 in accordance with the instructions in NASA Procedural Requirements (NPR) 9501.2, NASA Contractor Financial Management Reporting, and on the reverse side of the forms, as supplemented in the Schedule of this contract. The detailed reporting categories to be used, which shall correlate with technical and schedule reporting, shall be set forth in the Schedule. Contractor implementation of reporting requirements under this clause shall include NASA approval of the definitions of the content of each reporting category and give due regard to the Contractor's established financial management information system.

(b) Lower level detail used by the Contractor for its own management purposes to validate information provided to NASA shall be compatible with NASA requirements.

(c) Reports shall be submitted in the number of copies, at the time, and in the manner set forth in the Schedule or as designated in writing by the Contractor Officer. Upon completion and acceptance by NASA of all contract line items, the Contracting Officer may direct the Contractor to submit Form 533 reports on a quarterly basis only, report only when changes in actual cost incur, or suspend reporting altogether.

(d) The Contractor shall ensure that its Form 533 reports include accurate subcontractor cost data, in the proper reporting categories, for the reporting period.

(e) If during the performance of this contract NASA requires a change in the information or reporting requirements specified in the Schedule, or as provided for in paragraph (a) or (c) of this clause, the Contracting Officer shall effect that change in accordance with the Changes clause of this contract.

(End of clause)

**G.5 CONTRACTOR REQUESTS FOR GOVERNMENT-PROVIDED
EQUIPMENT (1852.245-70) (JAN 2011)**

(a) The Contractor shall provide all property required for the performance of this contract. The Contractor shall not acquire or construct items of property to which the Government will have title under the provisions of this contract without the Contracting Officer's written authorization. Property which will be acquired as a deliverable end item as material or as a component for incorporation into a deliverable end item is exempt from this requirement. Property approved as part of the contract award or specifically required within the statement of work is exempt from this requirement.

**SECTION G OF NNG11341433R
CONTRACT ADMINISTRATION DATA**

(b)(1) In the event the Contractor is unable to provide the property necessary for performance, and the Contractor requests provision of property by the Government, the Contractor's request shall--

- (i) Justify the need for the property;
- (ii) Provide the reasons why contractor-owned property cannot be used;
- (iii) Describe the property in sufficient detail to enable the Government to screen its inventories for available property or to otherwise acquire property, including applicable manufacturer, model, part, catalog, National Stock Number or other pertinent identifiers;
- (iv) Combine requests for quantities of items with identical descriptions and estimated values when the estimated values do not exceed \$100,000 per unit; and
- (v) Include only a single unit when the acquisition or construction value equals or exceeds \$100,000.

(2) Contracting Officer authorization is required for items the Contractor intends to manufacture as well as those it intends to purchase.

(3) The Contractor shall submit requests to the Contracting Officer no less than 30 days in advance of the date the Contractor would, should it receive authorization, acquire or begin fabrication of the item.

(c) The Contractor shall maintain copies of Contracting Officer authorizations, appropriately cross-referenced to the individual property record, within its property management system.

(d) Property furnished from Government excess sources is provided as-is, where-is. The Government makes no warranty regarding its applicability for performance of the contract or its ability to operate. Failure of property obtained from Government excess sources under this clause is insufficient reason for submission of requests for equitable adjustments discussed in the clause at FAR 52.245-1, Government Property, as incorporated in this contract.

(End of Clause)

**G.6 INSTALLATION-ACCOUNTABLE GOVERNMENT PROPERTY
(1852.245-71) (JAN 2011)**

(a) The Government property described in paragraph (c) of this clause may be made available to the Contractor on a no-charge basis for use in performance of this contract. This property shall be utilized only within the physical confines of the NASA installation that provided the property unless authorized by the Contracting Officer under (b)(1)(iv). Under this clause, the Government retains accountability for, and title to, the property, and the Contractor shall comply with the following:

- (1) NASA Procedural Requirements (NPR) 4100.1, NASA Materials Inventory Management Manual;

**SECTION G OF NNG11341433R
CONTRACT ADMINISTRATION DATA**

- (2) NASA Procedural Requirements (NPR) 4200.1, NASA Equipment Management Procedural Requirements;
- (3) NASA Procedural Requirement (NPR) 4300.1, NASA Personal Property Disposal Procedural Requirements;
- (4) Notify the cognizant property custodian, COTR, and the Installation Security Officer immediately if theft of Government property is suspected or property cannot be located
- (5) Identify Government property equipment that is no longer considered necessary for performance of the contract.
- (6) Ensure that equipment is turned in to the Property Disposal Officer through the cognizant property custodian when no longer needed. This is the only acceptable procedure for disposal of Government property.
- (7) Do not relocate Government property within Government premises or remove Government property from Government premises without written approval.
- (8) Ensure that Government property, including property leased to the Government, is used only for the purposes of performing the contract.
- (9) Ensure that Government property is protected and conserved.

Property not recorded in NASA property systems must be managed in accordance with the requirements of the clause at FAR 52.245-1, as incorporated in this contract.

The Contractor shall establish and adhere to a system of written procedures to assure continued, effective management control and compliance with these user responsibilities. In accordance with FAR 52.245-1(h)(1) the contractor shall be liable for property lost, damaged, destroyed or stolen by the contractor or their employees when determined responsible by a NASA Property Survey Board, in accordance with the NASA guidance in this clause.

(b)(1) The official accountable recordkeeping, financial control, and reporting of the property subject to this clause shall be retained by the Government and accomplished within NASA management information systems prescribed by the installation Supply and Equipment Management Officer (SEMO) and Financial Management Officer. If this contract provides for the Contractor to acquire property, title to which will vest in the Government, the following additional procedures apply:

(i) The Contractor's purchase order shall require the vendor to deliver the property to the installation central receiving area.

(ii) The Contractor shall furnish a copy of each purchase order, prior to delivery by the vendor, to the installation central receiving area.

(iii) The Contractor shall establish a record for Government titled property as required by FAR 52.245-1, as incorporated in this contract, and shall maintain that record until accountability is accepted by the Government.

(iv) Contractor use of Government property at an off-site location and off-site subcontractor use requires advance approval of the Contracting Officer and notification of the Industrial Property Officer. The property shall be considered Government furnished and the Contractor shall assume accountability and financial reporting

**SECTION G OF NNG11341433R
CONTRACT ADMINISTRATION DATA**

responsibility. The Contractor shall establish records and property control procedures and maintain the property in accordance with the requirements of FAR 52.245-1, Government Property (as incorporated in this contract), until its return to the installation. NASA Procedural Requirements related to property loans shall not apply to offsite use of property by contractors.

(2) After transfer of accountability to the Government, the Contractor shall continue to maintain such internal records as are necessary to execute the user responsibilities identified in paragraph (a) of this clause and document the acquisition, billing, and disposition of the property. These records and supporting documentation shall be made available, upon request, to the SEMO and any other authorized representatives of the Contracting Officer.

(c) The following property and services are provided if checked:

(1) Office space, work area space, and utilities. Government telephones are available for official purposes only.

(2) Office furniture.

(3) Property listed in Attachment D.

(i) If the Contractor acquires property, title to which vests in the Government pursuant to other provisions of this contract, this property also shall become accountable to the Government upon its entry into Government records.

(ii) The Contractor shall not bring to the installation for use under this contract any property owned or leased by the Contractor, or other property that the Contractor is accountable for under any other Government contract, without the Contracting Officer's prior written approval.

(4) Supplies from stores stock.

(5) Publications and blank forms stocked by the installation.

(6) Safety and fire protection for Contractor personnel and facilities.

(7) Installation service facilities: Outsourcing Desk Top Initiative for NASA (ODIN) Services.

(8) Medical treatment of a first-aid nature for Contractor personnel injuries or illnesses sustained during on-site duty.

(9) Cafeteria privileges for Contractor employees during normal operating hours.

(10) Building maintenance for facilities occupied by Contractor personnel.

(11) Moving and hauling for office moves, movement of large equipment, and delivery of supplies. Moving services may be provided on-site, as approved by the Contracting Officer.

(End of clause)

G.7 FINANCIAL REPORTING OF NASA PROPERTY IN THE CUSTODY OF CONTRACTORS (1852.245-73) (JAN 2011)

(a) The Contractor shall submit annually a NASA Form (NF) 1018, NASA Property in the Custody of Contractors, in accordance with this clause, the instructions on the form

**SECTION G OF NNG11341433R
CONTRACT ADMINISTRATION DATA**

and NFS subpart 1845.71, and any supplemental instructions for the current reporting period issued by NASA.

(b)(1) Subcontractor use of NF 1018 is not required by this clause; however, the Contractor shall include data on property in the possession of subcontractors in the annual NF 1018.

(2) The Contractor shall mail the original signed NF 1018 directly to the Goddard Space Flight Center (GSFC), General Accounting Department, General Ledger Section, Code 157, Greenbelt, MD 20771, unless the Contractor uses the NF 1018 Electronic Submission System (NESS) for report preparation and submission.

(3) One copy shall be submitted (through the Department of Defense (DOD) Property Administrator if contract administration has been delegated to DOD) to the following address: Goddard Space Flight Center, Supply and Equipment Management Branch, Code 273, Greenbelt, MD 20771, unless the Contractor uses the NF 1018 Electronic Submission System (NESS) for report preparation and submission.

(c)(1) The annual reporting period shall be from October 1 of each year through September 30 of the following year. The report shall be submitted in time to be received by October 15. The information contained in these reports is entered into the NASA accounting system to reflect current asset values for agency financial statement purposes. Therefore, it is essential that required reports be received no later than October 15. Some activity may be estimated for the month of September, if necessary, to ensure the NF 1018 is received when due. However, contractors' procedures must document the process for developing these estimates based on planned activity such as planned purchases or NASA Form 533 (NF 533 Contractor Financial Management Report) cost estimates. It should be supported and documented by historical experience or other corroborating evidence, and be retained in accordance with FAR Subpart 4.7, Contractor Records Retention. Contractors shall validate the reasonableness of the estimates and associated methodology by comparing them to the actual activity once that data is available, and adjust them accordingly. In addition, differences between the estimated cost and actual cost must be adjusted during the next reporting period. Contractors shall have formal policies and procedures, which address the validation of NF 1018 data, including data from subcontractors, and the identification and timely reporting of errors. The objective of this validation is to ensure that information reported is accurate and in compliance with the NASA FAR Supplement. If errors are discovered on NF 1018 after submission, the contractor shall contact the cognizant NASA Center Industrial Property Officer (IPO) within 30 days after discovery of the error to discuss corrective action.

(2) The Contracting Officer may, in NASA's interest, withhold payment until a reserve not exceeding \$25,000 or 5 percent of the amount of the contract, whichever is less, has been set aside, if the Contractor fails to submit annual NF 1018 reports in accordance with NFS subpart 1845.71 and any supplemental instructions for the current reporting period issued by NASA. Such reserve shall be withheld until the Contracting Officer has determined that NASA has received the required reports. The withholding of any amount or the subsequent payment thereof shall not be construed as a waiver of any

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Government right.

(d) A final report shall be submitted within 30 days after disposition of all property subject to reporting when the contract performance period is complete in accordance with paragraph (b)(1) through (3) of this clause.

(End of clause)

**G.8 LIST OF GOVERNMENT PROPERTY FURNISHED PURSUANT TO
FAR 52.245-1 (1852.245-76) (JAN 2011)**

For performance of work under this contract, the Government will make available Government property identified in Clause J.1, Attachment C, List of Government-Furnished Property (GFP) of this contract on a no charge-for-use basis pursuant to the clause at FAR 52.245-1, Government Property, as incorporated in this contract. The Contractor shall use this property in the performance of this contract at the Contractor's facility and at other location(s) as may be approved by the Contracting Officer. Under FAR 52.245-1, the Contractor is accountable for the identified property.

(End of clause)

**G.9 PROPERTY CLAUSE APPLICABILITY--ON-SITE AND OFF-SITE
(GSFC 52.245-96)(MAR 2011)**

(a) Performance of this contract requires that Contractor personnel and any furnished and/or acquired Government property be located at both Government controlled and managed premises (on-site) and at Contractor controlled and managed premises (off-site). The requirements for control and accountability of Government property differ depending upon the location of the property. The applicability of the clauses in this contract to on-site and to off-site locations is indicated below.

(b) Clauses applicable to both on-site and off-site locations.

FAR clause 52.245-1, "Government Equipment"

FAR clause 52.245-9, "Use and Charges"

NASA FAR Supplement clause 1852.245-70, "Contractor Requests for Government-Provided Equipment"

NASA FAR Supplement clause 1852.245-72, "Liability for Government Property Furnished for Repair or Other Services"

NASA FAR Supplement clause 1852.245-74, "Identification and Marking of

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Government Equipment”

NASA FAR Supplement clause 1852.245-75, “Property Management Changes”

NASA FAR Supplement clause 1852.245-78, “Physical Inventory of Capital Personal Property”

NASA FAR Supplement clause 1852.245-79, “Records and Disposition Reports for Government Property with Potential Historic or Significant Real Value”

NASA FAR Supplement clause 1852.245-83, “Real Property Management Requirements”

(c) Clauses applicable only to off-site locations.

NASA FAR Supplement clause 1852.245-73, “Financial Reporting of NASA Property in the Custody of Contractors”

NASA FAR Supplement clause 1852.245-76, “List of Government Property Furnished Pursuant to FAR 52.245-1”

(d) Clauses applicable only to on-site locations.

FAR clause 52.245-2, “Government Property Installation Operation Services”

NASA FAR Supplement clause 1852.245-71, “Installation-Accountable Government Property”

NASA FAR Supplement clause 1852.245-77, “List of Government Property Furnished Pursuant to FAR 52.245-2”

NASA FAR Supplement clause 1852.245-82, “Occupancy Management Requirements”

GSFC clause 52.245-93, “Reports of Contractor Acquired Government Property”

(End of clause)

G.10 TRAVEL OUTSIDE OF THE UNITED STATES (1852.242-71) (DEC 1988)

(a) The Contracting Officer must authorize in advance and in writing travel to locations outside of the United States by Contractor employees that is to be charged as a cost to this contract. This approval may be granted when the travel is necessary to the efforts required under the contract and it is otherwise in the best interest of NASA.

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(b) The Contractor shall submit requests to the Contracting Officer at least 30 days in advance of the start of the travel.

(c) The Contractor shall submit a travel report at the conclusion of the travel. The Contracting Officer's approval of the travel will specify the required contents and distribution of the travel report.

(End of clause)

G. 11 OCCUPANCY MANAGEMENT REQUIREMENTS (1852.245-82) (JAN 2011)

(a) In addition to the requirements of the clause at FAR 52.245-1, Government Property, as included in this contract, the Contractor shall comply with the following in performance of work in and around Government real property:

- (1) NPD 8800.14, Policy for Real Property Management.
- (2) NPR 8831.2, Facility Maintenance Management.

(b) The Contractor shall obtain the written approval of the Contracting Officer before installing or removing Contractor-owned property onto or into any Government real property or when movement of Contractor-owned property may damage or destroy Government-owned property. The Contractor shall restore damaged property to its original condition at the Contractor's expense.

(c) The Contractor shall not acquire, construct or install any fixed improvement or structural alterations in Government buildings or other real property without the advance, written approval of the Contracting Officer. Fixed improvement or structural alterations, as used herein, means any alteration or improvement in the nature of the building or other real property that, after completion, cannot be removed without substantial loss of value or damage to the premises. Title to such property shall vest in the Government.

(d) The Contractor shall report any real property or any portion thereof when it is no longer required for performance under the contract, as directed by the Contracting Officer.

(End of clause)

**G.12 PHYSICAL INVENTORY OF CAPITAL PERSONAL PROPERTY
(1852.245-78) (JAN 2011)**

(a) In addition to physical inventory requirements under the clause at FAR 52.245-1, Government Property, as incorporated in this contract, the Contractor shall conduct annual physical inventories for individual property items with an acquisition cost exceeding \$100,000.

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- (1) The Contractor shall inventory--
 - (i) Items of property furnished by the Government;
 - (ii) Items acquired by the Contractor and titled to the Government under the clause at FAR 52.245-1;
 - (iii) Items constructed by the Contractor and not included in the deliverable, but titled to the Government under the clause at FAR 52.245-1; and
 - (iv) Complete but undelivered deliverables.
- (2) The Contractor shall use the physical inventory results to validate the property record data, specifically location and use status, and to prepare summary reports of inventory as described in paragraph (c) of this clause.

(b) Unless specifically authorized in writing by the Property Administrator, the inventory shall be performed and posted by individuals other than those assigned custody of the items, responsibility for maintenance, or responsibility for posting to the property record. The Contractor may request a waiver from this separation of duties requirement from the Property Administrator, when all of the conditions in either (1) or (2) of this paragraph are met.

(1) The Contractor utilizes an electronic system for property identification, such as a laser bar-code reader or radio frequency identification reader, and

(i) The programs or software preclude manual data entry of inventory identification data by the individual performing the inventory; and

(ii) The inventory and property management systems contain sufficient management controls to prevent tampering and assure proper posting of collected inventory data.

(2) The Contractor has limited quantities of property, limited personnel, or limited property systems; and the Contractor provides written confirmation that the Government property exists in the recorded condition and location;

(3) The Contractor shall submit the request to the cognizant property administrator and obtain approval from the property administrator prior to implementation of the practice.

(c) The Contractor shall report the results of the physical inventory to the property administrator within 10 calendar days of completion of the physical inventory. The report shall--

(1) Provide a summary showing number and value of items inventoried; and

(2) Include additional supporting reports of--

(i) Loss in accordance with the clause at 52.245-1, Government Property;

(ii) Idle property available for reuse or disposition; and

(iii) A summary of adjustments made to location, condition, status, or user as a result of the physical inventory reconciliation.

(d) The Contractor shall retain auditable physical inventory records, including records supporting transactions associated with inventory reconciliation. All records shall be subject to Government review and/or audit.

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(End of clause)

G.13 PROPERTY MANAGEMENT CHANGES (1852.245-75) (JAN 2011)

(a) The Contractor shall submit any changes to standards and practices used for management and control of Government property under this contract to the assigned property administrator prior to making the change whenever the change--

- (1) Employs a standard that allows increase in thresholds or changes the timing for reporting loss, damage, or destruction of property;
- (2) Alters physical inventory timing or procedures;
- (3) Alters recordkeeping practices;
- (4) Alters practices for recording the transport or delivery of Government property; or
- (5) Alters practices for disposition of Government property.

(End of clause)

**G. 14 IDENTIFICATION AND MARKING OF GOVERNMENT EQUIPMENT
(1852.245-74) (JAN 2011)**

(a) The Contractor shall identify all equipment to be delivered to the Government using NASA Technical Handbook (NASA-HDBK) 6003, Application of Data Matrix Identification Symbols to Aerospace Parts Using Direct Part Marking Methods/Techniques, and NASA Standard (NASA-STD) 6002, Applying Data Matrix Identification Symbols on Aerospace Parts or through the use of commercial marking techniques that: (1) are sufficiently durable to remain intact through the typical lifespan of the property: and, (2) contain the data and data format required by the standards. This requirement includes deliverable equipment listed in the schedule and other equipment when no longer required for contract performance and NASA directs physical transfer to NASA or a third party. The Contractor shall identify property in both machine and human readable form unless the use of a machine readable-only format is approved by the NASA Industrial Property Officer.

(b) Equipment shall be marked in a location that will be human readable, without disassembly or movement of the equipment, when the items are placed in service unless such placement would have a deleterious effect on safety or on the item's operation.

(c) Concurrent with equipment delivery or transfer, the Contractor shall provide the following data in an electronic spreadsheet format:

- (1) Item Description.

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(2) Unique Identification Number (License Tag).

(3) Unit Price.

(4) An explanation of the data used to make the unique identification number.

(d) For equipment no longer needed for contract performance and physically transferred under paragraph (a) of this clause, the following additional data is required:

(1) Date originally placed in service.

(2) Item condition.

(e) The data required in paragraphs (c) and (d) of this clause shall be delivered to the NASA center receiving activity listed below:

Goddard Space Flight Center
Building 16W, Code 279
Greenbelt, MD 20771

(f) The contractor shall include the substance of this clause, including this paragraph (f), in all subcontracts that require delivery of equipment.

(End of clause)

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SECTION H – SPECIAL CONTRACT REQUIREMENTS

H. 1 SECTION H CLAUSES INCORPORATED BY REFERENCE

(1852.208-81)	RESTRICTIONS ON PRINTING AND DUPLICATING (NOV 2004)
(1852.223-70)	SAFETY AND HEALTH (APR 2002)
(1852.223-75)	MAJOR BREACH OF SAFETY OR SECURITY (FEB 2002)\
(1852.235-73)	FINAL SCIENTIFIC AND TECHNICAL REPORTS (DEC 2006)
(1852.242-72)	OBSERVANCE OF LEGAL HOLIDAYS (AUG 1992)-- ALTERNATE II (OCT 2000)

(End of By Reference Section)

H. 2 ACCESS TO SENSITIVE INFORMATION (1852.237-72) (JUNE 2005)

(a) As used in this clause, “sensitive information” refers to information that a contractor has developed at private expense, or that the Government has generated that qualifies for an exception to the Freedom of Information Act, which is not currently in the public domain, and which may embody trade secrets or commercial or financial information, and which may be sensitive or privileged.

(b) To assist NASA in accomplishing management activities and administrative functions, the Contractor shall provide the services specified elsewhere in this contract.

(c) If performing this contract entails access to sensitive information, as defined above, the Contractor agrees to--

(1) Utilize any sensitive information coming into its possession only for the purposes of performing the services specified in this contract, and not to improve its own competitive position in another procurement.

(2) Safeguard sensitive information coming into its possession from unauthorized use and disclosure.

(3) Allow access to sensitive information only to those employees that need it to perform services under this contract.

(4) Preclude access and disclosure of sensitive information to persons and entities outside of the Contractor's organization.

(5) Train employees who may require access to sensitive information about their obligations to utilize it only to perform the services specified in this contract and to safeguard it from unauthorized use and disclosure.

(6) Obtain a written affirmation from each employee that he/she has received and will comply with training on the authorized uses and mandatory protections of sensitive information needed in performing this contract.

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(7) Administer a monitoring process to ensure that employees comply with all reasonable security procedures, report any breaches to the Contracting Officer, and implement any necessary corrective actions.

(d) The Contractor will comply with all procedures and obligations specified in its Organizational Conflicts of Interest Avoidance Plan, which this contract incorporates as a compliance document.

(e) The nature of the work on this contract may subject the Contractor and its employees to a variety of laws and regulations relating to ethics, conflicts of interest, corruption, and other criminal or civil matters relating to the award and administration of government contracts. Recognizing that this contract establishes a high standard of accountability and trust, the Government will carefully review the Contractor's performance in relation to the mandates and restrictions found in these laws and regulations. Unauthorized uses or disclosures of sensitive information may result in termination of this contract for default, or in debarment of the Contractor for serious misconduct affecting present responsibility as a government contractor.

(f) The Contractor shall include the substance of this clause, including this paragraph (f), suitably modified to reflect the relationship of the parties, in all subcontracts that may involve access to sensitive information.

(End of clause)

H. 3 RELEASE OF SENSITIVE INFORMATION (1852.237-73) (JUNE 2005)

(a) As used in this clause, "sensitive information" refers to information, not currently in the public domain, that the Contractor has developed at private expense, that may embody trade secrets or commercial or financial information, and that may be sensitive or privileged.

(b) In accomplishing management activities and administrative functions, NASA relies heavily on the support of various service providers. To support NASA activities and functions, these service providers, as well as their subcontractors and their individual employees, may need access to sensitive information submitted by the Contractor under this contract. By submitting this proposal or performing this contract, the Contractor agrees that NASA may release to its service providers, their subcontractors, and their individual employees, sensitive information submitted during the course of this procurement, subject to the enumerated protections mandated by the clause at 1852.237-72, Access to Sensitive Information.

(c)(1) The Contractor shall identify any sensitive information submitted in support of this proposal or in performing this contract. For purposes of identifying sensitive information, the Contractor may, in addition to any other notice or legend otherwise required, use a notice similar to the following:

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Mark the title page with the following legend:

This proposal or document includes sensitive information that NASA shall not disclose outside the Agency and its service providers that support management activities and administrative functions. To gain access to this sensitive information, a service provider's contract must contain the clause at NFS 1852.237-72, Access to Sensitive Information. Consistent with this clause, the service provider shall not duplicate, use, or disclose the information in whole or in part for any purpose other than to perform the services specified in its contract. This restriction does not limit the Government's right to use this information if it is obtained from another source without restriction. The information subject to this restriction is contained in pages [insert page numbers or other identification of pages].

Mark each page of sensitive information the Contractor wishes to restrict with the following legend:

Use or disclosure of sensitive information contained on this page is subject to the restriction on the title page of this proposal or document.

(2) The Contracting Officer shall evaluate the facts supporting any claim that particular information is "sensitive." This evaluation shall consider the time and resources necessary to protect the information in accordance with the detailed safeguards mandated by the clause at 1852.237-72, Access to Sensitive Information. However, unless the Contracting Officer decides, with the advice of Center counsel, that reasonable grounds exist to challenge the Contractor's claim that particular information is sensitive, NASA and its service providers and their employees shall comply with all of the safeguards contained in paragraph (d) of this clause.

(d) To receive access to sensitive information needed to assist NASA in accomplishing management activities and administrative functions, the service provider must be operating under a contract that contains the clause at 1852.237-72, Access to Sensitive Information. This clause obligates the service provider to do the following:

(1) Comply with all specified procedures and obligations, including the Organizational Conflicts of Interest Avoidance Plan, which the contract has incorporated as a compliance document.

(2) Utilize any sensitive information coming into its possession only for the purpose of performing the services specified in its contract.

(3) Safeguard sensitive information coming into its possession from unauthorized use and disclosure.

(4) Allow access to sensitive information only to those employees that need it to perform services under its contract.

(5) Preclude access and disclosure of sensitive information to persons and entities outside of the service provider's organization.

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(6) Train employees who may require access to sensitive information about their obligations to utilize it only to perform the services specified in its contract and to safeguard it from unauthorized use and disclosure.

(7) Obtain a written affirmation from each employee that he/she has received and will comply with training on the authorized uses and mandatory protections of sensitive information needed in performing this contract.

(8) Administer a monitoring process to ensure that employees comply with all reasonable security procedures, report any breaches to the Contracting Officer, and implement any necessary corrective actions.

(e) When the service provider will have primary responsibility for operating an information technology system for NASA that contains sensitive information, the service provider's contract shall include the clause at 1852.204-76, Security Requirements for Unclassified Information Technology Resources. The Security Requirements clause requires the service provider to implement an Information Technology Security Plan to protect information processed, stored, or transmitted from unauthorized access, alteration, disclosure, or use. Service provider personnel requiring privileged access or limited privileged access to these information technology systems are subject to screening using the standard National Agency Check (NAC) forms appropriate to the level of risk for adverse impact to NASA missions. The Contracting Officer may allow the service provider to conduct its own screening, provided the service provider employs substantially equivalent screening procedures.

(f) This clause does not affect NASA's responsibilities under the Freedom of Information Act.

(g) The Contractor shall insert this clause, including this paragraph (g), suitably modified to reflect the relationship of the parties, in all subcontracts that may require the furnishing of sensitive information.

(End of clause)

H. 4 CONTRACTOR PERSONNEL—IDENTIFICATION, ONSITE REPORTING, AND CHECKOUT PROCEDURES (GSFC 52.204-99) (SEPT 2008)

(a) In accordance with FAR 52.204-9, Personal Identity Verification of Contractor Personnel, the Contractor shall follow Steps 1 through 7 described in Attachment K, Personal Identity Verification (PIV) Card Issuance Procedures, for each contract employee (prime and subcontractor) who will have physical access to a NASA-controlled facility (also referred to as “onsite”). The Contractor must apply for permanent NASA/GSFC PIV cards for those contract employees who will be employed by the Contractor onsite for at least six months. The GSFC Security Division will consider permanent PIV cards for other employees of the Contractor on a case-by-case basis, such as employees that are not resident onsite, but must frequently visit. In the future, upon

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written notice from the Contracting Officer, the Contractor shall follow Steps 1 through 7 in Attachment K for each offsite contract employee (prime and subcontractor) who require remote access to a NASA information system for contract performance.

(b) The Contractor shall notify the GSFC Security Division, Code 240, Attention: PIV Manager, and the Contracting Officer's Technical Representative (COTR) of the contractor's designated PIV Requester within 15 calendar days after award of this contract. The NASA maintained PIV system contains work and home location and contact information for personnel that have permanent NASA PIV cards. The Contractor may contact the PIV Manager, Tel 301-286-2306 for assistance regarding the PIV system.

(c) Each contract employee shall provide to the Contractor's designated PIV Requester the basic identifying information required for a PIV Request to be initiated in the PIV System. The PIV Request must be approved by the PIV Sponsor (COTR or the Contracting Officer). The COTR will resolve any housing or access issues, and review the request for accuracy and completeness. Requests that are approved by the PIV Sponsor will be

forwarded to the GSFC Security Division, Code 240, PIV Authorization, Badge enrollment, and Badge issuance.

(d) The Contractor shall submit an annotated PIV Report each month. The GSFC PIV Manager will furnish a PIV print-out to the Contractor no later than the end of each month. The Contractor shall annotate this provided report monthly to correct and update the information as follows:

- (1) Draw a line through the names of employees who are no longer employed by the contractor or that no longer work onsite under the contract, and;
- (2) Make handwritten changes to any other incorrect data.

The annotated PIV Report shall be separately submitted to the GSFC Security Division, Code 240, Attention: PIV Manager, and to the COTR by the 10th calendar day of the month.

For the final PIV Report under the contract, the GSFC PIV Manager will furnish a PIV print-out to the Contractor no later than two weeks prior to the end of the contract. The Contractor shall submit its annotated final PIV Report no later than 3 days prior to the end of the contract.

If this is a follow-on contract, at the end of the phase-in period (if any)/start of the basic contract period, the GSFC Security Division will provide the Contractor a copy of the final PIV Report from the previous contract. The Contractor shall review the list and redline it as necessary to reflect its employees requiring PIV cards. The redlined list shall be provided the GSFC Security Division within 30 days after the start of the contract.

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(e) The Contractor shall ensure that all personnel who have NASA/GSFC issued PIV cards, keys or other property who leave its employment or that no longer work onsite, process out through the GSFC Security Division, Code 240. Employees must return all GSFC issued identification and any Government property no later than the last day of their employment or the last day they work onsite under this contract. The Contractor shall establish appropriate procedures and controls to ensure this is accomplished. Failure to comply may result in the exercise of Government rights to limit and control access to Government premises, including denial of access and invalidation of NASA issued PIV cards and identification.

(End of clause)

**H.5 GOVERNMENT PREMISES—PHYSICAL ACCESS AND COMPLIANCE
WITH PROCEDURES (GSFC 52.211-95) (FEB 2011)**

(a)(1) The Contractor must apply for permanent NASA/GSFC Personal Identity Verification (PIV) cards (badges) for those employees that will be employed by the Contractor and subcontractors and that will be resident for at least six months at GSFC or at locations controlled by GSFC, such as GSFC leased space. Other personnel may be issued a temporary badge. All personnel must conspicuously display the GSFC PIV card at, or above, the waistline. Refer to GSFC clause 52.204-99, “Contractor Personnel—Identification, Onsite Reporting, and Checkout Procedures” for permanent PIV card issuance procedures.

(2) Visits by foreign nationals are restricted and must be necessary for the performance of the contract and concurred with by the Contracting Officer or by the Contracting Officer’s Technical Representative. Approval of such visits must be approved in advance in accordance with GPR 1600.1.

(3) Access to the GSFC may be changed or adjusted in response to threat conditions or special situations.

(b) While on Government premises, the Contractor shall comply with requirements governing the conduct of personnel and the operation of the facility. These requirements are set forth in NASA-wide or installation directives, procedures, handbooks and announcements. The following cover many of the requirements:

- (1) Harassment and Discrimination Announcements
<http://eeo.gsfc.nasa.gov/policy.html>
- (2) GSFC Workplace Violence Announcement
http://gs279gdmsias.gsfc.nasa.gov/srv/GDMSNEWDatabaseObject?document_id=7727
- (3) GMI 1152.9, Facilities Coordination Committee
- (4) GPR 1600.1, GSFC Security Requirements
- (5) GPR 1700.1, Occupational Safety Program
- (6) GPR 1700.2, Chemical Hygiene Plan
- (7) GPR 1700.8 GSFC Hazard Communication Program

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- (8) GPR 1800.1, GSFC Smoking and Other Tobacco Use Requirements
- (9) GPR 1800.6, Occupational Health, Medicine and Employee Assistance Programs
- (10) GPR 1860.1, Ionizing Radiation Protection
- (11) GPR 1860.2, Laser Radiation Protection
- (12) GPR 1860.3, Radio Frequency Radiation Safety
- (13) GPR 1860.4, Ultraviolet and High Intensity Light Radiation Protection
- (14) GPR 2570.1, Spectrum Management and Radio Frequency (RF) Equipment Licensing
- (15) GPD 8500.1, Environmental Policy and Program Management
- (16) GPR 8710.2, Emergency Preparedness Program for Greenbelt
- (17) GPR 8710.7, Cryogenic Safety
- (18) GPR 8710.8, GSFC Safety Program Management
- (19) GPD 8715.1, GSFC Safety Policy
- (20) GPR 8715.1, Processing of NASA Safety Reporting System (NSRS) Incident Reports

Copies of the current issuances may be obtained at <<http://gdms.gsfc.nasa.gov>> or from the Contracting Officer. The above list may be modified by the Contracting Officer to include additional issuances pertaining to the conduct of personnel and the operation of the facility.

(c) The Contractor may not use official Government mail (indicia or "eagle" mail). Contractors found in violation could be liable for a fine of \$300 per piece of indicia mail used. However, the Contractor is allowed to use internal GSFC mail to the extent necessary for purposes of the contract.

(End of clause)

H. 6 REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFEROR

The completed provision 52.204-8, Annual Representations and Certifications, including any amended representation(s) made at paragraph (b) of the provision; and other representations, certifications and other statements contained in Section K completed and submitted as part of this offer dated TBD are hereby incorporated by reference in this resulting contract.

(End of clause)

H.7 SAFETY AND HEALTH--ADDITIONAL REQUIREMENTS (GSFC 52.223-91) (MAR 2011)

(a) Other safety and health requirements. In addition to compliance with all Federal,

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state, and local laws as required by paragraph (d) of NFS clause 1852.223-70, the Contractor shall comply with the following:

Monthly health and safety report using NASA Incident Reporting Information Systems (IRIS). Specify incidents, disabling injuries, lost work days incident rate, days lost, property damage cost, manhours worked/month, and total employees. Access form is available at <ftp://ftp.hq.nasa.gov/forms/pdf/nhq224.pdf>. Until access is approved use template available at <http://safety1st.gsfc.nasa.gov> under Contractor Safety and e-mail to Lisa.L.Cutler@nasa.gov.

(b) Reporting. The immediate notification and prompt reporting required by paragraph (d) of NFS clause 1852.223-70 shall be to the Goddard Space Flight Center Occupational Safety and Health Division, Code 350, Tel 301-286-7409 and to the Contracting Officer. This should be a verbal notification and confirmed by FAX or E-Mail. This notification is also required for any unsafe or environmentally hazardous condition associated with Government-owned property that is provided or made available for the performance of the contract.

(End of clause)

H.8 EXPORT LICENSES (1852.225-70) (FEB 2000)

(a) The Contractor shall comply with all U.S. export control laws and regulations, including the International Traffic in Arms Regulations (ITAR), 22 CFR Parts 120 through 130, and the Export Administration Regulations (EAR), 15 CFR Parts 730 through 799, in the performance of this contract. In the absence of available license exemptions/exceptions, the Contractor shall be responsible for obtaining the appropriate licenses or other approvals, if required, for exports of hardware, technical data, and software, or for the provision of technical assistance.

(b) The Contractor shall be responsible for obtaining export licenses, if required, before utilizing foreign persons in the performance of this contract, including instances where the work is to be performed on-site at any Government installation, where the foreign person will have access to export-controlled technical data or software.

(c) The Contractor shall be responsible for all regulatory record keeping requirements associated with the use of licenses and license exemptions/exceptions.

(d) The Contractor shall be responsible for ensuring that the provisions of this clause apply to its subcontractors.

(End of clause)

H.9 ADDITIONAL CONTRACTOR RESPONSIBILITY

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A. Contractor's Point of Contact:

The Contractor shall identify at least one person who will be the Contractor's authorized focal point of contact: **TBP** for technical and administrative performance of all work hereunder. The employee shall, as a minimum, provide the single point of contact between the Contractor and the Contracting Officer's Technical Representative (COTR) designated under the contract.

B. Publication of Technical Papers:

The publication or presentation of technical papers by Contractor personnel, which are based upon work under this Contract may be permitted subject to prior consultation with the Work Monitor (WM). Consultation is typically limited to a review of authorship and to ensure that the Contractor has complied with H.8, Export Licenses. If a question or concern arises between the WM and the Contractor that cannot be resolved, the Contractor shall provide to the COTR the basis of the question or concern and if required, the Contracting Officer shall make the final determination as to whether all compliance requirements have been met. At anytime the contractor's request to publish or present technical papers is granted, the Contractor agrees that in no way do the contents reflect an official GSFC position.

(End of Text)

H.10 CONTRACTOR'S QUALITY ASSURANCE PLAN

The Contractor shall comply with the requirements established and set forth in Section J, Attachment F, entitled, "Contractor's Quality Assurance Plan."

H.11 SECURITY REQUIREMENTS FOR UNCLASSIFIED INFORMATION TECHNOLOGY RESOURCES (1852.204-76)(JAN 2011)

(a) The contractor shall protect the confidentiality, integrity, and availability of NASA Electronic Information and IT resources and protect NASA Electronic Information from unauthorized disclosure.

(b) This clause is applicable to all NASA contractors and sub-contractors that process, manage, access, or store unclassified electronic information, to include Sensitive But Unclassified (SBU) information, for NASA in support of NASA's missions, programs, projects and/or institutional requirements. Applicable requirements, regulations, policies, and guidelines are identified in the Applicable Documents List (ADL) provided as Attachment L to the contract. The documents listed in the ADL can be found at: <http://www.nasa.gov/offices/ocio/itsecurity/index.html>. For policy information considered

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sensitive, the documents will be identified as such in the ADL and made available through the Contracting Officer.

(c) Definitions.

(1) IT resources means any hardware or software or interconnected system or subsystem of equipment, that is used to process, manage, access, or store electronic information.

(2) NASA Electronic Information is any data (as defined in the Rights in Data clause of this contract) or information (including information incidental to contract administration, such as financial, administrative, cost or pricing, or management information) that is processed, managed, accessed or stored on an IT system(s) in the performance of a NASA contract.

(3) IT Security Management Plan—This plan shall describe the processes and procedures that will be followed to ensure appropriate security of IT resources that are developed, processed, or used under this contract. Unlike the IT security plan, which addresses the IT system, the IT Security Management Plan addresses how the contractor will manage personnel and processes associated with IT Security on the instant contract.

(4) IT Security Plan—this is a FISMA requirement; see the ADL for applicable requirements. The IT Security Plan is specific to the IT System and not the contract. Within 30 days after award, the contractor shall develop and deliver an IT Security Management Plan to the Contracting Officer; the approval authority will be included in the ADL. All contractor personnel requiring physical or logical access to NASA IT resources must complete NASA's annual IT Security Awareness training. Refer to the IT Training policy located in the IT Security Web site at <https://itsecurity.nasa.gov/policies/index.html>.

(d) The contractor shall afford Government access to the Contractor's and subcontractors' facilities, installations, operations, documentation, databases, and personnel used in performance of the contract. Access shall be provided to the extent required to carry out a program of IT inspection (to include vulnerability testing), investigation and audit to safeguard against threats and hazards to the integrity, availability, and confidentiality of NASA Electronic Information or to the function of IT systems operated on behalf of NASA, and to preserve evidence of computer crime.

(e) At the completion of the contract, the contractor shall return all NASA information and IT resources provided to the contractor during the performance of the contract in accordance with retention documentation available in the ADL. The contractor shall provide a listing of all NASA Electronic information and IT resources generated in performance of the contract. At that time, the contractor shall request disposition instructions from the Contracting Officer. The Contracting Officer will provide disposition instructions within 30 calendar days of the contractor's request. Parts of the clause and referenced ADL may be waived by the contracting officer, if the contractor's ongoing IT security program meets or exceeds the requirements of NASA Procedural Requirements (NPR) 2810.1 in effect at time of award. The current version of NPR 2810.1 is referenced in the ADL. The contractor shall submit a written waiver request to the Contracting Officer within 30 days of award. The waiver request will be

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reviewed by the Center IT Security Manager. If approved, the Contractor Officer will notify the contractor, by contract modification, which parts of the clause or provisions of the ADL are waived.

(f) The contractor shall insert this clause, including this paragraph in all subcontracts that process, manage, access or store NASA Electronic Information in support of the mission of the Agency.

(End of clause)

H.12 GOVERNMENT PROPERTY—COMPLIANCE WITH SAFETY STANDARDS (GSFC 52.223-92) (NOV 2009)

This contract involves the use of Government-furnished property or installation provided property. If any of the property does not conform to applicable Federal, state, or local safety standards, the Contractor shall promptly notify the Contracting Officer in writing (with a copy to the GSFC Safety Officer, Code 350).

(End of clause)

H.13 RIGHTS IN DATA (GSFC 52.227-99) (MAR 2008)

The default Data Rights clause under this contract is FAR 52.227-14 RIGHTS IN DATA GENERAL as modified by NASA FAR Supplement 1852.227-14—Alternate II and Alternate III and GSFC 52.227-90. Any exceptions to this clause will be covered by FAR 52.227-17 RIGHTS IN DATA—SPECIAL WORKS as modified by NASA Supplement 1852.227-17, and, if applicable, GSFC 52.227-93.

(End of clause)

H.14 CLAUSES INCORPORATED BY REFERENCE –SECTION H

Article H.1 contain clause(s) at the beginning of this Section that are incorporated by reference, with the same force and effect as if they were given full text. Clauses incorporated by reference which require a fill-in by the Government include the text of the affected paragraph(s) only. This does not limit the clause to the affected paragraph(s). The Contractor is responsible for understanding and complying with the entire clause. The full text of the clause is available at the addresses contained in clause 52.252-2, Clauses Incorporated by Reference, of this contract.

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- I.1 (52.202-1) DEFINITIONS (JULY 2004)**
- I.2 (52.203-3) GRATUITIES (APR 1984)**
- I.3 (52.203-5) COVENANT AGAINST CONTINGENT FEES (APR 1984)**
- I.4 (52.203-6) RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT (SEPT 2006)**
- I.5 (52.203-7) ANTI-KICKBACK PROCEDURES (OCT 2010)**
- I.6 (52.203-8) CANCELLATION, RESCISSION, AND RECOVERY OF FUNDS FOR ILLEGAL OR IMPROPER ACTIVITY (JAN 1997)**
- I.7 (52.203-10) PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR IMPROPER ACTIVITY (JAN 1997)**
- I.8 (52.203-12) LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS (OCT 2010)**
- I.9 (52.203-13) CONTRACTOR CODE OF BUSINESS ETHICS AND CONDUCT (APR 2010)**
- I.10 (52.203-14) DISPLAY OF HOTLINE POSTER(S) (DEC 2007) (b)(3) – Inspector General Hotline Posters may be obtained from NASA Office of Inspector General, Code W, Washington, D.C. 20546-0001.**
- I.11 (52.204-4) PRINTED OR COPIED DOUBLE-SIDED ON RECYCLED PAPER (AUG 2000)**
- I.12 (52.204-7) CENTRAL CONTRACTOR REGISTRATION (APR 2008)**
- I.13 (52.204-10) REPORTING EXECUTIVE COMPENSATION AND FIRST-TIER SUBCONTRACT AWARDS (JUL 2010)**
- I.14 (52.209-6) PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT (DEC 2010)**
- I.15 (52.215-2) AUDIT AND RECORDS--NEGOTIATION (OCT 2010)**
- I.16 (52.215-8) ORDER OF PRECEDENCE--UNIFORM CONTRACT FORMAT (OCT 1997)**
- I.17 (52.215-11) PRICE REDUCTION FOR DEFECTIVE CERTIFIED COST OR PRICING DATA –MODIFICATIONS (OCT 2010)**
- I.18 (52.215-13) SUBCONTRACTOR CERTIFIED COST OR PRICING DATA—MODIFICATIONS (OCT 2010)**
- I.19 (52.215-14) INTEGRITY OF UNIT PRICES (OCT 2010)**
- I.20 (52.215-15) PENSION ADJUSTMENTS AND ASSET REVERSIONS (OCT 2010)**
- I.21 (52.215-18) REVERSION OR ADJUSTMENT OF PLANS FOR POSTRETIREMENT BENEFITS (PRB) OTHER THAN PENSIONS (JUL 2005)**
- I.22 (52.215-19) NOTIFICATION OF OWNERSHIP OF CHANGES (OCT 1997)**

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- I.23 (52.215-21) REQUIREMENTS FOR CERTIFIED COST OR PRICING DATA AND DATA OTHER THAN CERTIFIED COST OR PRICING DATA--MODIFICATIONS (OCT 2010)**
- I.24 (52.215-23) LIMITATIONS ON PASS-THROUGH CHARGES (OCT 2009)**
- I.25 (52.216-7) ALLOWABLE COST AND PAYMENT (DEC 2002) (3) The designated payment office will make interim payments for contract financing on the 30th day after the designated billing office receives a proper payment request.**
- I.26 (52.219-6) NOTICE OF TOTAL SMALL BUSINESS SET-ASIDE (JUNE 2003)**
- I.27 (52.219-8) UTILIZATION OF SMALL BUSINESS CONCERNS (JAN 2011)**
- I.28 (52.219-28) POST-AWARD SMALL BUSINESS PROGRAM REPRESENTATION (APR 2009)**
- I.29 (52.222-1) NOTICE TO THE GOVERNMENT OF LABOR DISPUTES (FEB 1997)**
- I.30 (52.222-3) CONVICT LABOR (JUNE 2003)**
- I.31 (52.222-19) CHILD LABOR--COOPERATION WITH AUTHORITIES AND REMEDIES (JUL 2010)**
- I.32 (52.222-21) PROHIBITION OF SEGREGATED FACILITIES (FEB 1999)**
- I.33 (52.222-26) EQUAL OPPORTUNITY (MAR 2007)**
- I.34 (52.222-35) EQUAL OPPORTUNITY FOR VETERANS (SEPT 2010)**
- I.35 (52.222-36) AFFIRMATIVE ACTION FOR WORKERS WITH DISABILITIES (OCT 2010)**
- I.36 (52.222-37) EMPLOYMENT REPORTS VETERANS (SEPT 2010)**
- I.37 (52.222-41) SERVICE CONTRACT ACT OF 1965, AS AMENDED (NOV 2007)**
- I.38 (52.222-50) COMBATING TRAFFICKING IN PERSONS (FEB 2009)**
- I.39 (52.222-54) EMPLOYMENT ELIGIBILITY VERIFICATION (JAN 2009)**
- I.40 (52.223-5) POLLUTION PREVENTION AND RIGHT-TO-KNOW INFORMATION (AUG 2003) ALTERNATE I (AUG 2003) and ALTERNATE II (AUG 2003)**
- I.41 (52.223-6) DRUG FREE WORK PLACE (MAY 2001)**
- I.42 (52.223-10) WASTE REDUCTION PROGRAM (AUG 2000)**
- I.43 (52.223-14) TOXIC CHEMICAL RELEASE REPORTING (AUG 2003)**
- I.44 (52.223-18) CONTRACTOR POLICY ON BAN TEXT MESSAGING WHILE DRIVING (SEPT 2010)**
- I.45 (52.225-13) RESTRICTIONS ON CERTAIN FOREIGN PURCHASES (JUN 2008)**
- I.46 (Reserved)**
- I.47 (52.227-1) AUTHORIZATION AND CONSENT (DEC 2007)**
- I.48 (52.227-2) NOTICE AND ASSISTANCE REGARDING PATENT AND COPY-RIGHT INFRINGEMENT (DEC 2007)**

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- I.49 (52.227-11) PATENT RIGHTS--OWNERSHIP BY THE CONTRACTOR (DEC 2007) as modified by NASA FAR Supplement 1852.227-11**
- I.50 (52.227-19) COMMERCIAL COMPUTER SOFTWARE LICENSE (DEC 2007)**
- I.51 (52.228-7) INSURANCE--LIABILITY TO THIRD PERSONS (MAR 1996)**
- I.52 (52.232-17) INTEREST (OCT 2010)**
- I.53 (52.232-19) AVAILABILITY OF FUNDS FOR THE NEXT FISCAL YEAR (APR 1984)**
- I.54 (52.232-22) LIMITATION OF FUNDS (APR 1984)**
- I.55 (52.232-23) ASSIGNMENT OF CLAIMS (JAN 1986)**
- I.56 (52.232-25) PROMPT PAYMENT (OCT 2008) ALTERNATE I (FEB 2002)**
- I.57 (52.232-33) PAYMENT BY ELECTRONIC FUNDS TRANSFER—
CENTRAL CONTRACTOR REGISTRATION (OCT 2003)**
- I.58 (52.233-1) DISPUTES (JULY 2002)**
- I.59 (52.233-3) PROTEST AFTER AWARD (AUG 1996)--ALTERNATE I (JUN 1985)**
- I.60 (52.233-4) APPLICABLE LAW FOR BREACH OF CONTRACT CLAIM (OCT 2004)**
- I.61 (52.237-2) PROTECTION OF GOVERNMENT BUILDINGS, EQUIPMENT, AND VEGETATION (APR 1984)**
- I.62 (52.237-3) CONTINUITY OF SERVICES (JAN 1991)**
- I.63 (52.239-1) PRIVACY OR SECURITY SAFEGUARDS (AUG 1996)**
- I.64 (52.242-1) NOTICE OF INTENT TO DISALLOW COSTS (APR 1984)**
- I.65 (52.242-3) PENALTIES FOR UNALLOWABLE COSTS (MAY 2001)**
- I.66 (52.242-4) CERTIFICATION OF FINAL INDIRECT COSTS (JAN 1997)**
- I.67 (52.242-13) BANKRUPTCY (JUL 1995)**
- I.68 (52.243-2) CHANGES--COST-REIMBURSEMENT (AUG 1987)--
ALTERNATE II (APR 1984)**
- I.69 (52.244-2) SUBCONTRACTS (OCT 2010) Paragraph (d) If the Contractor has an approved purchasing system, the Contractor nevertheless shall obtain the Contracting Officer's written consent before placing the following subcontracts: Professional and Consultant costs as defined by FAR 31.205-33. Paragraph (j) Paragraphs (c) and (e) of this clause do not apply to the following subcontracts, which were evaluated during negotiations: [none]**
- I.70 (52.244-5) COMPETITION IN SUBCONTRACTING (DEC 1996)**
- I.71 (52.245-1) GOVERNMENT PROPERTY (AUG 2010)**
- I.72 (52.245-9) USE AND CHARGES (AUG 2010)**
- I.73 (52.246-25) LIMITATION OF LIABILITY--SERVICES (FEB 1997)**
- I.74 (52.247-1) COMMERCIAL BILL OF LADING NOTATIONS (FEB 2006)**

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- I.75 (52.247-63) PREFERENCE FOR U.S.-FLAG AIR CARRIERS (JUNE 2003)**
- I.76 (52.247-67) SUBMISSION OF TRANSPORTATION DOCUMENTS FOR AUDIT (FEB 2006), Paragraph (c)** Contractors shall submit the above referenced transportation documents to the Contracting Officer Michele Connerton, Goddard Space Flight Center, Code 210.8, Greenbelt, MD, 20771, Business Phone: 301-286-6640, Fax 301-286-1773, E-mail address: Michele.R.Connerton@nasa.gov
- I.77 (52.248-1) VALUE ENGINEERING (OCT 2010)**
- I.78 (52.249-6) TERMINATION (COST-REIMBURSEMENT) (MAY 2004)**
- I.79 (52.249-14) EXCUSABLE DELAYS (APR 1984)**
- I.80 (52.251-1) GOVERNMENT SUPPLY SOURCES (AUG 2010)**
- I.81 (1852.203-70) DISPLAY OF INSPECTOR GENERAL HOTLINE POSTERS (JUNE 2001)**
- I.82 (1852.215-84) OMBUDSMAN (OCT 2003) (JUNE 2000)**
(b) If resolution cannot be made by the contracting officer, interested parties may contact the installation ombudsman. The current list of Center Ombudsman is available at http://prod.nais.nasa.gov/pub/pub_library/Omb.html. Concerns, issues, disagreements, and recommendations which cannot be resolved at the installation may be referred to the NASA ombudsman, the Director of the Contract Management Division, at 202-358-0445, facsimile 202-358-3083. Please do not contact the ombudsman to request copies of the solicitation, verify offer due date, or clarify technical requirements. Such inquiries shall be directed to the Contracting Officer or as specified in this document.
- I.83 (1852.216-82) ASSIGNMENT AND RELEASE FORMS (JUL 1997)**
- I.84 (1852.223-74) DRUG-AND ALCOHOL-FREE WORKPLACE (MAR 1996)**
- I.85 (1852.242-78) EMERGENCY MEDICAL SERVICES AND EVACUATION (APR 2001)**
- I.86 (1852.243-71) SHARED SAVINGS (MAR 1997)**
- I. 87 LIMITATIONS ON SUBCONTRACTING (52.219-14) (DEC 1996)**

(a) This clause does not apply to the unrestricted portion of a partial set-aside.

(b) By submission of an offer and execution of a contract, the Offeror/Contractor agrees that in performance of the contract in the case of a contract for--

(1) Services (except construction). At least 50 percent of the cost of contract performance incurred for personnel shall be expended for employees for the concern.

(2) Supplies (other than procurement from a nonmanufacturer of such supplies). The concern shall perform work for at least 50 percent of the cost of manufacturing the supplies, not including the cost of materials.

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(3) General construction. The concern will perform at least 15 percent of the cost of the contract, not including the cost of materials, with its own employees.

(4) Construction by special trade contractors. The concern will perform at least 25 percent of the cost of the contract, not including the cost of materials, with its own employees.

(End of clause)

**I.88 STATEMENT OF EQUIVALENT RATES FOR FEDERAL HIRES
(52.222-42) (MAY 1989)**

In compliance with the Service Contract Act of 1965, as amended, and the regulations of the Secretary of Labor (29 CFR part 4), this clause identifies the classes of service employees expected to be employed under the contract and states the wages and fringe benefits payable to each if they were employed by the contracting agency subject to the provisions of 5 U.S.C. 5341 or 5332.

The following categories are the non-exempt employees listed in the Governments Position Descriptions.

The Salary Tables, located in the Office of Personnel Management website, list the hourly rates by Grade and Step. These grades are representative of the equivalent Government salary. The exact rate for each Employee Class listed below were calculated using the Step 5/6 rate for the applicable grade at the applicable geographic location (Locality Pay Table for 2011).

The Salary Tables with the hourly rates can be located at the following website:

<http://www.opm.gov/oca/10tables/index.asp>

This Statement is for Information Only:
It is not a Wage Determination

Employee Class	Grade Level	Hourly Rate*
Computer Operator	GS-6	\$20.63

The monetary wages (hourly rates) are computed in accordance with FAR 22.1016(b).

* Fringes are as follows:

1. Holidays: New Year's Day, Martin Luther King's Birthday, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veteran's Day, Thanksgiving Day, Christmas Day, and Inauguration Day (when applicable).

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2. Annual Leave: Two hours of annual leave each week for an employee with less than three years service; three hours of annual leave each week for an employee with three but less than fifteen years of service; and four hours of annual leave each week for an employee with fifteen or more years of service.
3. Sick Leave: Two hours of sick leave each week for all employees.
4. Life insurance, health insurance, workers' compensation, and Federal Insurance Compensation Act (for temporary employees) at 7 percent of basic hourly rate.
5. Retirement: 7.0 percent of basic hourly rates for employees hired through December 31, 1985. Retirement at 0.8 percent for employees hired on January 1, 1986, or after.
6. Medicare: 1.45 percent of basic hourly rates for all employees.
7. Social Security: 6.2 percent of basic hourly rates for employees hired on or after January 1, 1986, up to a maximum gross annual salary of \$97,500.

(End of clause)

1.89 NONDISPLACEMENT OF QUALIFIED WORKERS UNDER SERVICE CONTRACTS (EXECUTIVE ORDER) (JAN 2009)

When a service contract expires, and a follow-on contract is awarded for the same service, at the same location, the successor contractor or its subcontractors often hires the majority of the predecessor's employees. On some occasions, however, a successor contractor or its subcontractors hires a new work force, thus displacing the predecessor's employees.

The Federal Government's procurement interests in economy and efficiency are served when the successor contractor hires the predecessor's employees. A carryover work force reduces disruption to the delivery of services during the period of transition between contractors and provides the Federal Government the benefits of an experienced and trained work force that is familiar with the Federal Government's personnel, facilities, and requirements.

Therefore, by the authority vested in me as President by the Constitution and the laws of the United States of America, including the Federal Property and Administrative Services Act, 40 U.S.C. 101 et seq., and in order to promote economy and efficiency in Federal Government procurement, it is hereby ordered as follows:

Section 1. Policy. It is the policy of the Federal Government that service contracts and solicitations for such contracts shall include a clause that requires the contractor, and its subcontractors, under a contract that succeeds a contract for performance of the same or similar services at the same location, to offer those employees (other than managerial

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and supervisory employees) employed under the predecessor contract whose employment will be terminated as a result of the award of the successor contract, a right of first refusal of employment under the contract in positions for which they are qualified. There shall be no employment openings under the contract until such right of first refusal has been provided. Nothing in this order shall be construed to permit a contractor or subcontractor to fail to comply with any provision of any other Executive Order or law of the United States.

Sec. 2. Definitions.

(a) "Service contract" or "contract" means any contract or subcontract for services entered into by the Federal Government or its contractors that is covered by the Service Contract Act of 1965, as amended, 41 U.S.C. 351 et seq., and its implementing regulations.

(b) "Employee" means a service employee as defined in the Service Contract Act of 1965, 41 U.S.C. 357(b).

Sec. 3. Exclusions. This order shall not apply to:

(a) contracts or subcontracts under the simplified acquisition threshold as defined in 41 U.S.C. 403;

(b) contracts or subcontracts awarded pursuant to the Javits-Wagner-O'Day Act, 41 U.S.C. 46-48c;

(c) guard, elevator operator, messenger, or custodial services provided to the Federal Government under contracts or subcontracts with sheltered workshops employing the severely handicapped as described in section 505 of the Treasury, Postal Services and General Government Appropriations Act, 1995, Public Law 103-329;

(d) agreements for vending facilities entered into pursuant to the preference regulations issued under the Randolph-Sheppard Act, 20 U.S.C. 107; or

(e) employees who were hired to work under a Federal service contract and one or more nonfederal service contracts as part of a single job, provided that the employees were not deployed in a manner that was designed to avoid the purposes of this order.

Sec. 4. Authority to Exempt Contracts. If the head of a contracting department or agency finds that the application of any of the requirements of this order would not serve the purposes of this order or would impair the ability of the Federal Government to procure services on an economical and efficient basis, the head of such department or agency may exempt its department or agency from the requirements of any or all of the provisions of this order with respect to a particular contract, subcontract, or purchase order or any class of contracts, subcontracts, or purchase orders.

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Sec. 5. Contract Clause. The following contract clause shall be included in solicitations for and service contracts that succeed contracts for performance of the same or similar work at the same location:

"NONDISPLACEMENT OF QUALIFIED WORKERS

"(a) Consistent with the efficient performance of this contract, the contractor and its subcontractors shall, except as otherwise provided herein, in good faith offer those employees (other than managerial and supervisory employees) employed under the predecessor contract whose employment will be terminated as a result of award of this contract or the expiration of the contract under which the employees were hired, a right of first refusal of employment under this contract in positions for which employees are qualified. The contractor and its subcontractors shall determine the number of employees necessary for efficient performance of this contract and may elect to employ fewer employees than the predecessor contractor employed in connection with performance of the work. Except as provided in paragraph (b) there shall be no employment opening under this contract, and the contractor and any subcontractors shall not offer employment under this contract, to any person prior to having complied fully with this obligation. The contractor and its subcontractors shall make an express offer of employment to each employee as provided herein and shall state the time within which the employee must accept such offer, but in no case shall the period within which the employee must accept the offer of employment be less than 10 days.

"(b) Notwithstanding the obligation under paragraph (a) above, the contractor and any subcontractors (1) may employ under this contract any employee who has worked for the contractor or subcontractor for at least 3 months immediately preceding the commencement of this contract and who would otherwise face lay-off or discharge, (2) are not required to offer a right of first refusal to any employee(s) of the predecessor contractor who are not service employees within the meaning of the Service Contract Act of 1965, as amended, 41 U.S.C. 357(b), and (3) are not required to offer a right of first refusal to any employee(s) of the predecessor contractor whom the contractor or any of its subcontractors reasonably believes, based on the particular employee's past performance, has failed to perform suitably on the job.

"(c) In accordance with Federal Acquisition Regulation 52.222-41(n), the contractor shall, not less than 10 days before completion of this contract, furnish the Contracting Officer **a certified list of the names of all service employees working under this contract and its subcontracts during the last month of contract performance.** The list shall also contain anniversary dates of employment of each service employee under this contract and its predecessor contracts either with the current or predecessor contractors or their subcontractors. The Contracting Officer will provide the list to the successor contractor, and the list shall be provided on request to employees or their representatives.

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"(d) If it is determined, pursuant to regulations issued by the Secretary of Labor (Secretary), that the contractor or its subcontractors are not in compliance with the requirements of this clause or any regulation or order of the Secretary, appropriate sanctions may be imposed and remedies invoked against the contractor or its subcontractors, as provided in Executive Order (No.) 13495, the regulations, and relevant orders of the Secretary, or as otherwise provided by law.

"(e) In every subcontract entered into in order to perform services under this contract, the contractor will include provisions that ensure that each subcontractor will honor the requirements of paragraphs (a) through (b) with respect to the employees of a predecessor subcontractor or subcontractors working under this contract, as well as of a predecessor contractor and its subcontractors. The subcontract shall also include provisions to ensure that the subcontractor will provide the contractor with the information about the employees of the subcontractor needed by the contractor to comply with paragraph 5(c), above. The contractor will take such action with respect to any such subcontract as may be directed by the Secretary as a means of enforcing such provisions, including the imposition of sanctions for non-compliance: provided, however, that if the contractor, as a result of such direction, becomes involved in litigation with a subcontractor, or is threatened with such involvement, the contractor may request that the United States enter into such litigation to protect the interests of the United States."

Sec. 6. Enforcement. (a) The Secretary of Labor (Secretary) is responsible for investigating and obtaining compliance with this order. In such proceedings, the Secretary shall have the authority to issue final orders prescribing appropriate sanctions and remedies, including, but not limited to, orders requiring employment and payment of wages lost. The Secretary also may provide that where a contractor or subcontractor has failed to comply with any order of the Secretary or has committed willful violations of this order or the regulations issued pursuant thereto, the contractor or subcontractor, and its responsible officers, and any firm in which the contractor or subcontractor has a substantial interest, shall be ineligible to be awarded any contract of the United States for a period of up to 3 years. Neither an order for debarment of any contractor or subcontractor from further Government contracts under this section nor the inclusion of a contractor or subcontractor on a published list of noncomplying contractors shall be carried out without affording the contractor or subcontractor an opportunity for a hearing.

(b) This order creates no rights under the Contract Disputes Act, and disputes regarding the requirement of the contract clause prescribed by section 5 of this order, to the extent permitted by law, shall be disposed of only as provided by the Secretary in regulations issued under this order. To the extent practicable, such regulations shall favor the resolution of disputes by efficient and informal alternative dispute resolution methods. The Secretary shall, in consultation with the Federal Acquisition Regulatory Council, issue regulations, within 180 days of the date of this order, to the extent permitted by law, to implement the requirements of this order. The Federal Acquisition Regulatory Council shall issue, within 180 days of the date of this order, to the extent

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permitted by law, regulations in the Federal Acquisition Regulation to provide for inclusion of the contract clause in Federal solicitations and contracts subject to this order.

Sec. 7. Revocation. Executive Order 13204 of February 17, 2001, is revoked.

Sec. 8. Severability. If any provision of this order, or the application of such provision or amendment to any person or

circumstance, is held to be invalid, the remainder of this order and the application of the provisions of such to any person or circumstances shall not be affected thereby.

Sec. 9. General Provisions. (a) Nothing in this order shall be construed to impair or otherwise affect:

(i) authority granted by law to an executive department, agency, or the head thereof; or

(ii) functions of the Director of the Office of Management and Budget relating to budgetary, administrative, or legislative proposals.

(b) This order shall be implemented consistent with applicable law and subject to the availability of appropriations.

(c) This order is not intended to, and does not, create any right or benefit, substantive or procedural, enforceable at law or in equity by any party against the United States, its departments, agencies, or entities, its officers, employees, or agents, or any other person. This order is not intended, however, to preclude judicial review of final decisions by the Secretary in accordance with the Administrative Procedure Act, 5 U.S.C. 701 et seq.

Sec. 10. Effective Date. This order shall become effective immediately and shall apply to solicitations issued on or after the effective date for the action taken by the Federal Acquisition Regulatory Council under section 6(b) of this order.

BARACK OBAMA

**L90 NOTIFICATION OF EMPLOYEE RIGHTS UNDER THE NATIONAL
LABOR RELATIONS ACT (52.222-40) (DEC 2010)**

(a) During the term of this contract, the Contractor shall post an employee notice, of such size and in such form, and containing such content as prescribed by the Secretary of Labor, in conspicuous places in and about its plants and offices where employees covered by the National Labor Relations Act engage in activities relating to the performance of the contract, including all places where notices to employees are customarily posted both

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physically and electronically, in the languages employees speak, in accordance with 29 CFR 471.2 (d) and (f).

(1) Physical posting of the employee notice shall be in conspicuous places in and about the Contractor's plants and offices so that the notice is prominent and readily seen by employees who are covered by the National Labor Relations Act and engage in activities related to the performance of the contract.

(2) If the Contractor customarily posts notices to employees electronically, then the Contractor shall also post the required notice electronically by displaying prominently, on any website that is maintained by the Contractor and is customarily used for notices to employees about terms and conditions of employment, a link to the Department of Labor's website that contains the full text of the poster. The link to the Department's website, as referenced in (b)(3) of this section, must read, "Important Notice about Employee Rights to Organize and Bargain Collectively with Their Employers."

(b) This required employee notice, printed by the Department of Labor, may be—

(1) Obtained from the Division of Interpretations and Standards, Office of Labor-Management Standards, U.S. Department of Labor, 200 Constitution Avenue, NW., Room N-5609, Washington, DC 20210, (202) 693-0123, or from any field office of the Office of Labor-Management Standards or Office of Federal Contract Compliance Programs;

(2) Provided by the Federal contracting agency if requested;

(3) Downloaded from the Office of Labor-Management Standards website at www.dol.gov/olms/regs/compliance/EO13496.htm; or

(4) Reproduced and used as exact duplicate copies of the Department of Labor's official poster.

(c) The required text of the employee notice referred to in this clause is located at Appendix A, Subpart A, 29 CFR Part 471.

(d) The Contractor shall comply with all provisions of the employee notice and related rules, regulations, and orders of the Secretary of Labor.

(e) In the event that the Contractor does not comply with the requirements set forth in paragraphs (a) through (d) of this clause, this contract may be terminated or suspended in whole or in part, and the Contractor may be suspended or debarred in accordance with 29 CFR 471.14 and subpart 9.4. Such other sanctions or remedies may be imposed as are provided by 29 CFR part 471, which implements Executive Order 13496 or as otherwise provided by law.

(f) *Subcontracts.* (1) The Contractor shall include the substance of this clause, including this paragraph (f), in every subcontract that exceeds \$10,000 and will be performed wholly or partially in the United States, unless exempted by the rules, regulations, or orders of the Secretary of Labor issued pursuant to section 3 of Executive Order 13496 of January 30, 2009, so that such provisions will be binding upon each subcontractor.

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(2) The Contractor shall not procure supplies or services in a way designed to avoid the applicability of Executive Order 13496 or this clause.

(3) The Contractor shall take such action with respect to any such subcontract as may be directed by the Secretary of Labor as a means of enforcing such provisions, including the imposition of sanctions for noncompliance.

(4) However, if the Contractor becomes involved in litigation with a subcontractor, or is threatened with such involvement, as a result of such direction, the Contractor may request the United States, through the Secretary of Labor, to enter into such litigation to protect the interests of the United States.

(End of clause)

I.91 HAZARDOUS MATERIAL IDENTIFICATION AND MATERIAL SAFETY DATA (52.223-3) (JAN 1997)--ALTERNATE I (JUL 1995)

(a) "Hazardous material," as used in this clause, includes any material defined as hazardous under the latest version of Federal Standard No. 313 (including revisions adopted during the term of the contract).

(b) The offeror must list any hazardous material, as defined by paragraph (a) of this clause, to be delivered under this contract. The hazardous material shall be properly identified and include any applicable identification number, such as National Stock Number or Special Item Number. This information shall also be included on the Material Safety Data Sheet submitted under this contract.

Material (If none, insert "None")	Identification No.
_____	_____
_____	_____
_____	_____

(c) This list must be updated during performance of the contract whenever the Contractor determines that any other material to be delivered under this contract is hazardous.

(d) The apparently successful offeror agrees to submit, for each item as required prior to award, a Material Safety Data Sheet, meeting the requirements of 29 CFR 1910.1200(g) and the latest version of Federal Standard No. 313, for all hazardous material identified in paragraph (b) of this clause. Data shall be submitted in accordance with Federal Standard No. 313, whether or not the apparently successful offeror is the actual manufacturer of these items. Failure to submit the Material Safety Data Sheet prior to award may result in the apparently successful offeror being considered nonresponsible and ineligible for award.

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(e) If, after award, there is a change in the composition of the item(s) or a revision to Federal Standard No. 313, which renders incomplete or inaccurate the data submitted under paragraph (d) of this clause, the Contractor shall promptly notify the Contracting Officer and resubmit the data.

(f) Neither the requirements of this clause nor any act or failure to act by the Government shall relieve the Contractor of any responsibility or liability for the safety of Government, Contractor, or subcontractor personnel or property.

(g) Nothing contained in this clause shall relieve the Contractor from complying with applicable Federal, State, and local laws, codes, ordinances, and regulations (including the obtaining of licenses and permits) in connection with hazardous material.

(h) The Government's rights in data furnished under this contract with respect to hazardous material are as follows:

(1) To use, duplicate, and disclose any data to which this clause is applicable. The purposes of this right are to--

(i) Apprise personnel of the hazards to which they may be exposed in using, handling, packaging, transporting, or disposing of hazardous materials;
(ii) Obtain medical treatment for those affected by the material; and
(iii) Have others use, duplicate, and disclose the data for the Government for these purposes.

(2) To use, duplicate, and disclose data furnished under this clause, in accordance with subparagraph (h)(1) of this clause, in precedence over any other clause of this contract providing for rights in data.

(3) The Government is not precluded from using similar or identical data acquired from other sources.

(i) Except as provided in paragraph (i)(2), the Contractor shall prepare and submit a sufficient number of Material Safety Data Sheets (MSDS's), meeting the requirements of 29 CFR 1910.1200(g) and the latest version of Federal Standard No. 313, for all hazardous material identified in paragraph (b) of this clause.

(1) For items shipped to consignees, the Contractor shall include a copy of the MSDS's with the packing list or other suitable shipping document which accompanies each shipment. Alternatively, the Contractor is permitted to transmit MSDS's to consignees in advance of receipt of shipments by consignees, if authorized by the Contracting Officer.

(2) For items shipped to consignees identified by mailing address as agency depots, distribution centers or customer supply centers, the Contractor shall provide one

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copy of the MSDS's in or on each shipping container. If affixed to the outside of each container, the MSDS must be placed in a weather resistant envelope.

(End of clause)

I.92 LIMITATION ON WITHHOLDING OF PAYMENTS (52.232-9) (APR 1984)

If more than one clause or Schedule term of this contract authorizes the temporary withholding of amounts otherwise payable to the Contractor for supplies delivered or services performed, the total of the amounts withheld at any one time shall not exceed the greatest amount that may be withheld under any one clause or Schedule term at that time; provided that this limitation shall not apply to—

- (a) Withholdings pursuant to any clause relating to wages or hours of employees;
- (b) Withholdings not specifically provided for by this contract;
- (c) The recovery of overpayments; and
- (d) Any other withholding for which the Contracting Officer determines that this limitation is inappropriate.

(End of Clause)

I.93 CLAUSES INCORPORATED BY REFERENCE (52.252-2) (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

Federal Acquisition Regulation (FAR) clauses:

<http://www.acquisition.gov/far/>

NASA FAR Supplement (NFS) clauses:

<http://www.hq.nasa.gov/office/procurement/regs/nfstoc.htm>

(End of clause)

I.94 COMPUTER GENERATED FORMS (52.253-1) (JAN 1991)

(a) Any data required to be submitted on a Standard or Optional Form prescribed by the Federal Acquisition Regulation (FAR) may be submitted on a computer generated version of the form, provided there is no change to the name, content, or sequence of the data elements on the form, and provided the form carries the Standard or Optional Form number and edition date.

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(b) Unless prohibited by agency regulations, any data required to be submitted on an agency unique form prescribed by an agency supplement to the FAR may be submitted on a computer generated version of the form provided there is no change to the name, content, or sequence of the data elements on the form and provided the form carries the agency form number and edition date.

(c) If the Contractor submits a computer generated version of a form that is different than the required form, then the rights and obligations of the parties will be determined based on the content of the required form.

(End of clause)

I.95 USE OF RURAL AREA SMALL BUSINESSES (1852.219-74) (SEPT 1990)

(a) **Definitions.**

"**Rural area**" means any county with a population of fewer than twenty thousand individuals.

"**Small business concern**," as used in this clause, means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding under this contract, and qualified as a small business under the criteria and size standards in 13 CFR 121.

(b) NASA prime and subcontractors are encouraged to use their best efforts to award subcontracts to small business concerns located in rural areas.

(c) Contractors acting in good faith may rely on written representations by their subcontractors regarding their status as small business concerns located in rural areas.

(d) The Contractor agrees to insert the provisions of this clause, including this paragraph (d), in all subcontracts hereunder that offer subcontracting possibilities.

(End of clause)

I.96 NASA 8 PERCENT GOAL (1852.219-76) (JUL 1997)

(a) Definitions.

"Historically Black Colleges or University", as used in this clause means an institution determined by the Secretary of Education to meet the requirements of 34 CFR Section 608.2. The term also includes any nonprofit research institution that was an integral part of such a college or university before November 14, 1986.

"Minority institutions", as used in this clause, means an institution of higher education meeting the requirements of section 1046(3) of the Higher Education Act of 1965 (20 U.S.C. 1135d-5(3)) which for the purposes of this clause includes a Hispanic-serving institution of higher education as defined in section 316(b)(1) of the Act (20 U.S.C. 1059c(b)(1)).

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“Small disadvantaged business concern”, as used in this clause, means a small business concern that (1) is at least 51 percent unconditionally owned by one or more individuals who are both socially and economically disadvantaged, or a publicly owned business having at least 51 percent of its stock unconditionally owned by one or more socially and economically disadvantaged individuals, and (2) has its management and daily business controlled by one or more such individuals. This term also means a small business concern that is at least 51 percent unconditionally owned by an economically disadvantaged Indian tribe or Native Hawaiian Organization, or a publicly owned business having at least 51 percent of its stock unconditionally owned by one or more of these entities, which has its management and daily business controlled by members of an economically disadvantaged Indian tribe or Native Hawaiian Organization, and which meets the requirements of 13 CFR 124.

“Women-owned small business concern”, as used in this clause, means a small business concern (1) which is at least 51 percent owned by one or more women or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women, and (2) whose management and daily business operations are controlled by one or more women.

(b) The NASA Administrator is required by statute to establish annually a goal to make available to small disadvantaged business concerns, Historically Black Colleges and Universities, minority institutions, and women-owned small business concerns, at least 8 percent of NASA's procurement dollars under prime contracts or subcontracts awarded in support of authorized programs, including the space station by the time operational status is obtained.

(c) The contractor hereby agrees to assist NASA in achieving this goal by using its best efforts to award subcontracts to such entities to the fullest extent consistent with efficient contract performance.

(d) Contractors acting in good faith may rely on written representations by their subcontractors regarding their status as small disadvantaged business concerns, Historically Black Colleges and Universities, minority institutions, and women-owned small business concerns.

(End of clause)

I.97 MINIMUM INSURANCE COVERAGE (1852.228-75) (OCT 1988)

The Contractor shall obtain and maintain insurance coverage as follows for the performance of this contract:

(a) Worker's compensation and employer's liability insurance as required by applicable Federal and state workers' compensation and occupational disease statutes. If occupational diseases are not compensable under those statutes, they shall be covered under the employer's liability section of the insurance policy, except when contract

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operations are so commingled with the Contractor's commercial operations that it would not be practical. The employer's liability coverage shall be at least \$100,000, except in States with exclusive or monopolistic funds that do not permit workers' compensation to be written by private carriers.

(b) Comprehensive general (bodily injury) liability insurance of at least \$500,000 per occurrence.

(c) Motor vehicle liability insurance written on the comprehensive form of policy which provides for bodily injury and property damage liability covering the operation of all motor vehicles used in connection with performing the contract. Policies covering motor vehicles operated in the United States shall provide coverage of at least \$200,000 per person and \$500,000 per occurrence for bodily injury liability and \$20,000 per occurrence for property damage. The amount of liability coverage on other policies shall be commensurate with any legal requirements of the locality and sufficient to meet normal and customary claims.

(d) Comprehensive general and motor vehicle liability policies shall contain a provision worded as follows:

"The insurance company waives any right of subrogation against the United States of America which may arise by reason of any payment under the policy."

(e) When aircraft are used in connection with performing the contract, aircraft public and passenger liability insurance of at least \$200,000 per person and \$500,000 per occurrence for bodily injury, other than passenger liability, and \$200,000 per occurrence for property damage. Coverage for passenger liability bodily injury shall be at least \$200,000 multiplied by the number of seats or passengers, whichever is greater.

(End of clause)

I.98 CENTER FOR AEROSPACE INFORMATION (1852.235-70) (DEC 2006)

(a) The Contractor should register with and avail itself of the services provided by the NASA Center for AeroSpace Information (CASI) (<http://www.sti.nasa.gov>) for the conduct of research or research and development required under this contract. CASI provides a variety of services and products as a NASA repository and database of research information, which may enhance contract performance.

(b) Should the CASI information or service requested by the Contractor be unavailable or not in the exact form necessary by the Contractor, neither CASI nor NASA is obligated to search for or change the format of the information. A failure to furnish information shall not entitle the Contractor to an equitable adjustment under the terms and conditions of this contract.

(c) Information regarding CASI and the services available can be obtained at the Internet address contained in paragraph (a) of this clause.

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(End of clause)

I.99 EMERGENCY EVACUATION PROCEDURES (1852.237-70) (DEC 1988)

The Contractor shall assure that its personnel at Government facilities are familiar with the functions of the Government's emergency evacuation procedures. If requested by the Contracting Officer, the Contractor shall designate an individual or individuals as contact points to provide for efficient and rapid evacuation of the facility if and when required.

(End of clause)

**I.100 OPTION TO EXTEND THE TERM OF THE CONTRACT (52.217-9)
(MAR 2000)**

- (a) The Government may extend the term of this contract by written notice to the Contractor prior to contract expiration; provided, that the Government gives the Contractor a preliminary written notice of its intent to extend at least 60 days before the contract expires. The preliminary notice does not commit the Government to an extension.
- (b) If the Government exercises this option, the extended contract shall be considered to include this option clause.
- (c) The total duration of this contract, including the exercise of any options under this clause, shall not exceed 5 years.

(End of clause)

**I.101 PERSONAL IDENTITY VERIFICATION OF CONTRACTOR
PERSONNEL (52.204-9) (JAN 2011)**

(a) The Contractor shall comply with agency personal identity verification procedures identified in the contract that implement Homeland Security Presidential Directive-12 (HSPD-12), Office of Management and Budget (OMB) guidance M-05-24 and Federal Information Processing Standards Publication (FIPS PUB) Number 201.

(b) The Contractor shall account for all forms of Government-provided identification issued to the Contractor employees in connection with performance under this contract. The Contractor shall return such identification to the issuing agency at the earliest of any of the following, unless otherwise determined by the Government:

- (1) When no longer needed for contract performance.
- (2) Upon completion of the Contractor employee's employment.

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(3) Upon contract completion or termination.

(c) The Contracting Officer may delay final payment under a contract if the Contractor fails to comply with these requirements.

(d) The Contractor shall insert the substance of this clause, including this paragraph (d), in all subcontracts when the subcontractor's employees are required to have routine physical access to a Federally-controlled facility and/or routine access to a Federally-controlled information system. It shall be the responsibility of the prime Contractor to return such identification to the issuing agency in accordance with the terms set forth in paragraph (b) of this section, unless otherwise approved in writing by the Contracting Officer.

(End of clause)

I.102 SUBCONTRACTS FOR COMMERCIAL ITEMS (52.244-6) (DEC 2010)

(a) *Definitions.* As used in this clause—

“Commercial item” has the meaning contained in Federal Acquisition Regulation [2.101](#), Definitions.

“Subcontract” includes a transfer of commercial items between divisions, subsidiaries, or affiliates of the Contractor or subcontractor at any tier.

(b) To the maximum extent practicable, the Contractor shall incorporate, and require its subcontractors at all tiers to incorporate, commercial items or nondevelopmental items as components of items to be supplied under this contract.

(c)(1) The Contractor shall insert the following clauses in subcontracts for commercial items:

(i) [52.203-13](#), Contractor Code of Business Ethics and Conduct (Apr 2010) (Pub. L. 110-252, Title VI, Chapter 1 ([41 U.S.C. 251 note](#))), if the subcontract exceeds \$5,000,000 and has a performance period of more than 120 days. In altering this clause to identify the appropriate parties, all disclosures of violation of the civil False Claims Act or of Federal criminal law shall be directed to the agency Office of the Inspector General, with a copy to the Contracting Officer.

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(ii) [52.203-15](#), Whistleblower Protections Under the American Recovery and Reinvestment Act of 2009 (Jun 2010) (Section 1553 of Pub. L. 111-5), if the subcontract is funded under the Recovery Act.

(iii) [52.219-8](#), Utilization of Small Business Concerns (Dec 2010) ([15 U.S.C. 637\(d\)\(2\)](#) and (3)), if the subcontract offers further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$650,000 (\$1.5 million for construction of any public facility), the subcontractor must include [52.219-8](#) in lower tier subcontracts that offer subcontracting opportunities.

(iv) [52.222-26](#), Equal Opportunity (Mar 2007) (E.O. 11246).

(v) [52.222-35](#), Equal Opportunity for Veterans (Sep 2010) ([38 U.S.C. 4212\(a\)](#));

(vi) [52.222-36](#), Affirmative Action for Workers with Disabilities (Oct 2010) ([29 U.S.C. 793](#)).

(vii) [52.222-40](#), Notification of Employee Rights Under the National Labor Relations Act (DEC 2010) (E.O. 13496), if flow down is required in accordance with paragraph (f) of FAR clause [52.222-40](#).

(viii) [52.222-50](#), Combating Trafficking in Persons (Feb 2009) ([22 U.S.C. 7104\(g\)](#)).

(ix) [52.247-64](#), Preference for Privately Owned U.S.-Flag Commercial Vessels (Feb 2006) ([46 U.S.C. App. 1241](#) and [10 U.S.C. 2631](#)), if flow down is required in accordance with paragraph (d) of FAR clause [52.247-64](#).

(2) While not required, the Contractor may flow down to subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.

(d) The Contractor shall include the terms of this clause, including this paragraph (d), in subcontracts awarded under this contract.

(End of clause)

I. 103 NOTICE OF RADIOACTIVE MATERIALS (52.223-7) (JAN 1997)

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(a) The Contractor shall notify the Contracting Officer or designee, in writing, 10 days prior to the delivery of, or prior to completion of any servicing required by this contract of, items containing either (1) radioactive material requiring specific licensing under the regulations issued pursuant to the Atomic Energy Act of 1954, as amended, as set forth in Title 10 of the Code of Federal Regulations, in effect on the date of this contract, or (2) other radioactive material not requiring specific licensing in which the specific activity is greater than 0.002 microcuries per gram or the activity per item equals or exceeds 0.01 microcuries. Such notice shall specify the part or parts of the items which contain radioactive materials, a description of the materials, the name and activity of the isotope, the manufacturer of the materials, and any other information known to the Contractor which will put users of the items on notice as to the hazards involved (OMB No. 9000-0107).

(b) If there has been no change affecting the quantity of activity, or the characteristics and composition of the radioactive material from deliveries under this contract or prior contracts, the Contractor may request that the Contracting Officer or designee waive the notice requirement in paragraph (a) of this clause. Any such request shall—

(1) Be submitted in writing;

(2) State that the quantity of activity, characteristics, and composition of the radioactive material have not changed; and

(3) Cite the contract number on which the prior notification was submitted and the contracting office to which it was submitted.

(c) All items, parts, or subassemblies which contain radioactive materials in which the specific activity is greater than 0.002 microcuries per gram or activity per item equals or exceeds 0.01 microcuries, and all containers in which such items, parts or subassemblies are delivered to the Government shall be clearly marked and labeled as required by the latest revision of MIL-STD 129 in effect on the date of the contract.

(d) This clause, including this paragraph (d), shall be inserted in all subcontracts for radioactive materials meeting the criteria in paragraph (a) of this clause.

(End of clause)

I.104 APPROVAL OF CONTRACT (52.204-1) (DEC 1989)

This contract is subject to the written approval of the GSFC Procurement Officer and shall not be binding until so approved.

(End of clause)

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I.105 UPDATES OF PUBLICLY AVAILABLE INFORMATION REGARDING RESPONSIBILITY MATTERS (52.209-9) (JAN 2011)—ALTERNATE I (JAN 2011)

(a) (1) The Contractor shall update the information in the Federal Awardee Performance and Integrity Information System (FAPIS) on a semi-annual basis, throughout the life of the contract, by posting the required information in the Central Contractor Registration database at <http://www.ccr.gov>.

(2) At the first semi-annual update on or after April 15, 2011, the Contractor shall post again any required information that the Contractor posted prior to April 15, 2011.

(b)(1) The Contractor will receive notification when the Government posts new information to the Contractor's record.

(2) The Contractor will have an opportunity to post comments regarding information that has been posted by the Government. The comments will be retained as long as the associated information is retained, *i.e.*, for a total period of 6 years. Contractor comments will remain a part of the record unless the Contractor revises them.

(3)(i) Public requests for system information posted prior to April 15, 2011, will be handled under Freedom of Information Act procedures, including, where appropriate, procedures promulgated under E.O. 12600.

(ii) As required by section 3010 of Public Law 111-212, all information posted in FAPIS on or after April 15, 2011, except past performance reviews, will be publicly available.

(End of clause)

I.106 RIGHTS IN DATA-GENERAL (52.227-14)(DEC 2007) as modified by NASA FAR Supplement 1852.227-14—ALTERNATE II (DEC 2007) AND ALTERNATE III (DEC 2007)

(a) *Definitions.* As used in this clause-

"Computer database" or "database means" a collection of recorded information in a form capable of, and for the purpose of, being stored in, processed, and operated on by a computer. The term does not include computer software.

"Computer software"-

(1) Means

(i) Computer programs that comprise a series of instructions, rules, routines, or statements, regardless of the media in which recorded, that allow or cause a computer to perform a specific operation or series of operations; and

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(ii) Recorded information comprising source code listings, design details, algorithms, processes, flow charts, formulas, and related material that would enable the computer program to be produced, created, or compiled.

(2) Does not include computer databases or computer software documentation.

"Computer software documentation" means owner's manuals, user's manuals, installation instructions, operating instructions, and other similar items, regardless of storage medium, that explain the capabilities of the computer software or provide instructions for using the software.

"Data" means recorded information, regardless of form or the media on which it may be recorded. The term includes technical data and computer software. The term does not include information incidental to contract administration, such as financial, administrative, cost or pricing, or management information.

"Form, fit, and function data" means data relating to items, components, or processes that are sufficient to enable physical and functional interchangeability, and data identifying source, size, configuration, mating and attachment characteristics, functional characteristics, and performance requirements. For computer software it means data identifying source, functional characteristics, and performance requirements but specifically excludes the source code, algorithms, processes, formulas, and flow charts of the software.

"Limited rights" means the rights of the Government in limited rights data as set forth in the Limited Rights Notice of paragraph (g)(3) if included in this clause.

"Limited rights data" means data, other than computer software, that embody trade secrets or are commercial or financial and confidential or privileged, to the extent that such data pertain to items, components, or processes developed at private expense, including minor modifications.

"Restricted computer software" means computer software developed at private expense and that is a trade secret, is commercial or financial and confidential or privileged, or is copyrighted computer software, including minor modifications of the computer software.

"Restricted rights," as used in this clause, means the rights of the Government in restricted computer software, as set forth in a Restricted Rights Notice of paragraph (g) if included in this clause, or as otherwise may be provided in a collateral agreement incorporated in and made part of this contract, including minor modifications of such computer software.

"Technical data" means recorded information (regardless of the form or method of the recording) of a scientific or technical nature (including computer databases and computer software documentation). This term does not include computer software or financial, administrative, cost or pricing, or management data or other information incidental to contract administration. The term includes recorded information of a scientific or technical nature that is included in computer databases (See [41 U.S.C. 403\(8\)](#)).

"Unlimited rights" means the rights of the Government to use, disclose, reproduce, prepare derivative works, distribute copies to the public, and perform publicly and display publicly, in any manner and for any purpose, and to have or permit others to do so.

(b) Allocation of rights.

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(1) Except as provided in paragraph (c) of this clause, the Government shall have unlimited rights in-

(i) Data first produced in the performance of this contract;
(ii) Form, fit, and function data delivered under this contract;
(iii) Data delivered under this contract (except for restricted computer software) that constitute manuals or instructional and training material for installation, operation, or routine maintenance and repair of items, components, or processes delivered or furnished for use under this contract; and

(iv) All other data delivered under this contract unless provided otherwise for limited rights data or restricted computer software in accordance with paragraph (g) of this clause.

(2) The Contractor shall have the right to-

(i) Assert copyright in data first produced in the performance of this contract to the extent provided in paragraph (c)(1) of this clause;

(ii) Use, release to others, reproduce, distribute, or publish any data first produced or specifically used by the Contractor in the performance of this contract, unless provided otherwise in paragraph (d) of this clause;

(iii) Substantiate the use of, add, or correct limited rights, restricted rights, or copyright notices and to take other appropriate action, in accordance with paragraphs (e) and (f) of this clause; and

(iv) Protect from unauthorized disclosure and use those data that are limited rights data or restricted computer software to the extent provided in paragraph (g) of this clause.

(c) Copyright-

(1) Data first produced in the performance of this contract.

(i) Unless provided otherwise in paragraph (d) of this clause, the Contractor may, without prior approval of the Contracting Officer, assert copyright in scientific and technical articles based on or containing data first produced in the performance of this contract and published in academic, technical or professional journals, symposia proceedings, or similar works. The prior, express written permission of the Contracting Officer is required to assert copyright in all other data first produced in the performance of this contract.

(ii) When authorized to assert copyright to the data, the Contractor shall affix the applicable copyright notices of [17 U.S.C. 401 or 402](#), and an acknowledgment of Government sponsorship (including contract number).

(iii) For data other than computer software, the Contractor grants to the Government, and others acting on its behalf, a paid-up, nonexclusive, irrevocable, worldwide license in such copyrighted data to reproduce, prepare derivative works, distribute copies to the public, and perform publicly and display publicly by or on behalf of the Government. For computer software, the Contractor grants to the Government, and others acting on its behalf, a paid-up, nonexclusive, irrevocable, worldwide license in such copyrighted computer software to reproduce, prepare derivative works, and perform publicly and display publicly (but not to distribute copies to the public) by or on behalf of the Government.

(2) *Data not first produced in the performance of this contract.* The Contractor shall not, without the prior written permission of the Contracting Officer, incorporate in data

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delivered under this contract any data not first produced in the performance of this contract unless the Contractor-

(i) Identifies the data; and

(ii) Grants to the Government, or acquires on its behalf, a license of the same scope as set forth in paragraph (c)(1) of this clause or, if such data are restricted computer software, the Government shall acquire a copyright license as set forth in paragraph (g)(4) of this clause (if included in this contract) or as otherwise provided in a collateral agreement incorporated in or made part of this contract.

(3) *Removal of copyright notices.* The Government will not remove any authorized copyright notices placed on data pursuant to this paragraph (c), and will include such notices on all reproductions of the data.

(d) *Release, publication, and use of data.* The Contractor shall have the right to use, release to others, reproduce, distribute, or publish any data first produced or specifically used by the Contractor in the performance of this contract, except-

(1) As prohibited by Federal law or regulation (*e.g.*, export control or national security laws or regulations);

(2) As expressly set forth in this contract; or

(3) If the Contractor receives or is given access to data necessary for the performance of this contract that contain restrictive markings, the Contractor shall treat the data in accordance with such markings unless specifically authorized otherwise in writing by the Contracting Officer.

(i) The Contractor agrees not to establish claim to copyright, publish or release to others any computer software first produced in the performance of this contract without the Contracting Officer's prior written permission.

(ii) If the Government desires to obtain copyright in computer software first produced in the performance of this contract and permission has not been granted as set forth in paragraph (d)(3)(i) of this clause, the Contracting Officer may direct the contractor to assert, or authorize the assertion of, claim to copyright in such data and to assign, or obtain the assignment of, such copyright to the Government or its designated assignee.

(iii) Whenever the word "establish" is used in this clause, with reference to a claim to copyright, it shall be construed to mean "assert".

(e) Unauthorized marking of data.

(1) Notwithstanding any other provisions of this contract concerning inspection or acceptance, if any data delivered under this contract are marked with the notices specified in paragraph (g)(3) or (g) (4) if included in this clause, and use of the notices is not authorized by this clause, or if the data bears any other restrictive or limiting markings not authorized by this contract, the Contracting Officer may at any time either return the data to the Contractor, or cancel or ignore the markings. However, pursuant to [41 U.S.C. 253d](#), the following procedures shall apply prior to canceling or ignoring the markings.

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(i) The Contracting Officer will make written inquiry to the Contractor affording the Contractor 60 days from receipt of the inquiry to provide written justification to substantiate the propriety of the markings;

(ii) If the Contractor fails to respond or fails to provide written justification to substantiate the propriety of the markings within the 60-day period (or a longer time approved in writing by the Contracting Officer for good cause shown), the Government shall have the right to cancel or ignore the markings at any time after said period and the data will no longer be made subject to any disclosure prohibitions.

(iii) If the Contractor provides written justification to substantiate the propriety of the markings within the period set in paragraph (e)(1)(i) of this clause, the Contracting Officer will consider such written justification and determine whether or not the markings are to be cancelled or ignored. If the Contracting Officer determines that the markings are authorized, the Contractor will be so notified in writing. If the Contracting Officer determines, with concurrence of the head of the contracting activity, that the markings are not authorized, the Contracting Officer will furnish the Contractor a written determination, which determination will become the final agency decision regarding the appropriateness of the markings unless the Contractor files suit in a court of competent jurisdiction within 90 days of receipt of the Contracting Officer's decision. The Government will continue to abide by the markings under this paragraph (e)(1)(iii) until final resolution of the matter either by the Contracting Officer's determination becoming final (in which instance the Government will thereafter have the right to cancel or ignore the markings at any time and the data will no longer be made subject to any disclosure prohibitions), or by final disposition of the matter by court decision if suit is filed.

(2) The time limits in the procedures set forth in paragraph (e)(1) of this clause may be modified in accordance with agency regulations implementing the Freedom of Information Act ([5 U.S.C. 552](#)) if necessary to respond to a request thereunder.

(3) Except to the extent the Government's action occurs as the result of final disposition of the matter by a court of competent jurisdiction, the Contractor is not precluded by paragraph (e) of the clause from bringing a claim, in accordance with the Disputes clause of this contract, that may arise as the result of the Government removing or ignoring authorized markings on data delivered under this contract.

(f) Omitted or incorrect markings.

(1) Data delivered to the Government without any restrictive markings shall be deemed to have been furnished with unlimited rights. The Government is not liable for the disclosure, use, or reproduction of such data.

(2) If the unmarked data has not been disclosed without restriction outside the Government, the Contractor may request, within 6 months (or a longer time approved by the Contracting Officer in writing for good cause shown) after delivery of the data, permission to have authorized notices placed on the data at the Contractor's expense. The Contracting Officer may agree to do so if the Contractor-

- (i) Identifies the data to which the omitted notice is to be applied;
- (ii) Demonstrates that the omission of the notice was inadvertent;
- (iii) Establishes that the proposed notice is authorized; and

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(iv) Acknowledges that the Government has no liability for the disclosure, use, or reproduction of any data made prior to the addition of the notice or resulting from the omission of the notice.

(3) If data has been marked with an incorrect notice, the Contracting Officer may-

(i) Permit correction of the notice at the Contractor's expense if the Contractor identifies the data and demonstrates that the correct notice is authorized; or

(ii) Correct any incorrect notices.

(g) Protection of limited rights data and restricted computer software.

(1) The Contractor may withhold from delivery qualifying limited rights data or restricted computer software that are not data identified in paragraphs (b)(1)(i), (ii), and (iii) of this clause. As a condition to this withholding, the Contractor shall-

(i) Identify the data being withheld; and

(ii) Furnish form, fit, and function data instead.

(2) Limited rights data that are formatted as a computer database for delivery to the Government shall be treated as limited rights data and not restricted computer software.

(3) Notwithstanding paragraph (g)(1) of this clause, the contract may identify and specify the delivery of limited rights data, or the Contracting Officer may require by written request the delivery of limited rights data that has been withheld or would otherwise be entitled to be withheld. If delivery of that data is required, the Contractor shall affix the following "Limited Rights Notice" to the data and the Government will treat the data, subject to the provisions of paragraphs (e) and (f) of this clause, in accordance with the notice:

Limited Rights Notice (Dec 2007)

(a) These data are submitted with limited rights under Government Contract No. _____ (and subcontract _____, if appropriate). These data may be reproduced and used by the Government with the express limitation that they will not, without written permission of the Contractor, be used for purposes of manufacture nor disclosed outside the Government; except that the Government may disclose these data outside the Government for the following purposes, if any; provided that the Government makes such disclosure subject to prohibition against further use and disclosure:

(i) Use (except for manufacture) by support service contractors.

(ii) Evaluation by nongovernment evaluators.

(iii) Use (except for manufacture) by other contractors participating in the Government's program of which the specific contract is a part.

(iv) Emergency repair or overhaul work.

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(v) Release to a foreign government, or its instrumentalities, if required to serve the interests of the U.S. Government, for information or evaluation, or for emergency repair or overhaul work by the foreign government.

(vi) or any other legitimate government use

(b) This notice shall be marked on any reproduction of these data, in whole or in part.

(End of notice)

(4)(i) Notwithstanding paragraph (g)(1) of this clause, the contract may identify and specify the delivery of restricted computer software, or the Contracting Officer may require by written request the delivery of restricted computer software that has been withheld or would otherwise be entitled to be withheld. If delivery of that computer software is required, the Contractor shall affix the following "Restricted Rights Notice" to the computer software and the Government will treat the computer software, subject to paragraphs (e) and (f) of this clause, in accordance with the notice:

Restricted Rights Notice (Dec 2007)

(a) This computer software is submitted with restricted rights under Government Contract No. _____ (and subcontract _____, if appropriate). It may not be used, reproduced, or disclosed by the Government except as provided in paragraph (b) of this notice or as otherwise expressly stated in the contract.

(b) This computer software may be-

(1) Used or copied for use with the computer(s) for which it was acquired, including use at any Government installation to which the computer(s) may be transferred;

(2) Used or copied for use with a backup computer if any computer for which it was acquired is inoperative;

(3) Reproduced for safekeeping (archives) or backup purposes;

(4) Modified, adapted, or combined with other computer software, *provided* that the modified, adapted, or combined portions of the derivative software incorporating any of the delivered, restricted computer software shall be subject to the same restricted rights;

(5) Disclosed to and reproduced for use by support service Contractors or their subcontractors in accordance with paragraphs (b)(1) through (4) of this notice; and

(6) Used or copied for use with a replacement computer and other legitimate government use.

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(c) Notwithstanding the foregoing, if this computer software is copyrighted computer software, it is licensed to the Government with the minimum rights set forth in paragraph (b) of this notice.

(d) Any other rights or limitations regarding the use, duplication, or disclosure of this computer software are to be expressly stated in, or incorporated in, the contract.

(e) This notice shall be marked on any reproduction of this computer software, in whole or in part.

(End of notice)

(ii) Where it is impractical to include the Restricted Rights Notice on restricted computer software, the following short-form notice may be used instead:

Restricted Rights Notice Short Form (Jun 1987)

Use, reproduction, or disclosure is subject to restrictions set forth in Contract No. _____ (and subcontract, if appropriate) with _____ (name of Contractor and subcontractor).

(End of notice)

(iii) If restricted computer software is delivered with the copyright notice of [17 U.S.C. 401](#), it will be presumed to be licensed to the Government without disclosure prohibitions, with the minimum rights set forth in paragraph (b) of this clause.

(h) *Subcontracting*. The Contractor shall obtain from its subcontractors all data and rights therein necessary to fulfill the Contractor's obligations to the Government under this contract. If a subcontractor refuses to accept terms affording the Government those rights, the Contractor shall promptly notify the Contracting Officer of the refusal and shall not proceed with the subcontract award without authorization in writing from the Contracting Officer.

(i) *Relationship to patents or other rights*. Nothing contained in this clause shall imply a license to the Government under any patent or be construed as affecting the scope of any license or other right otherwise granted to the Government.

(End of clause)

L.107 AUTHORIZED DEVIATIONS IN CLAUSES (52.252-6) (APR 1984)

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(a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.

(b) The use in this solicitation or contract of any NASA FAR Supplement (48 CFR 18) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

(End of clause)

**SECTION J OF NNG11341433R
LIST OF ATTACHMENTS**

SECTION J – LIST OF ATTACHMENTS

J.1 LIST OF ATTACHMENTS (GSFC 52.211-101) (OCT 1988)

The following attachments constitute part of this contract:

ATTACHMENT	DESCRIPTION	DATE	NO. OF PAGES
A	STATEMENT OF WORK	03/2011	11
B	SOW ADDENDUM	03/2011	38
C	LIST OF GOVERNMENT FURNISHED PROPERTY (GFP)	11/2010	4
D	LIST OF INSTALLATION ACCOUNTABLE GOVERNMENT PROPERTY	11/2010	103
E	SAFETY AND HEALTH PLAN	To be submitted with proposal	TBP
F	CONTRACTOR'S QUALITY ASSURANCE PLAN	To be submitted with proposal	TBP
G	INFORMATION TECHNOLOGY (IT) SECURITY MANAGEMENT PLAN	To be submitted 30 days after contract effective date	TBP
H	FINANCIAL MANAGEMENT REPORTING REQUIREMENTS	03/2011	3
I	WAGE DETERMINATION (WD)	11/2010	Wage Determination No. 2005-2103, Revision No. 10
J	ORGANIZATIONAL CONFLICTS OF INTEREST AVOIDANCE PLAN	To be submitted with proposal	TBP

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K	PERSONAL IDENTITY VERIFICATION (PIV) CARD ISSUANCE PROCEDURES	12/2010	4
L	IT SECURITY APPLICABLE DOCUMENT LIST	04/2011	3

*TBP = To Be Proposed

**TBD = To Be Determined

(End of clause)

**SECTION K OF NNG11341433R
REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS**

K. 1 ANNUAL REPRESENTATIONS AND CERTIFICATIONS (52.204-8) (JAN 2011)

(a)(1) The North American Industry Classification System (NAICS) code for this acquisition is 541712.

(2) The small business size standard is 1,000 employees.

(3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

(b)(1) If the clause at [52.204-7](#), Central Contractor Registration, is included in this solicitation, paragraph (d) of this provision applies.

(2) If the clause at [52.204-7](#) is not included in this solicitation, and the offeror is currently registered in CCR, and has completed the ORCA electronically, the offeror may choose to use paragraph (d) of this provision instead of completing the corresponding individual representations and certifications in the solicitation. The offeror shall indicate which option applies by checking one of the following boxes:

(i) Paragraph (d) applies.

(ii) Paragraph (d) does not apply and the offeror has completed the individual representations and certifications in the solicitation.

(c)(1) The following representations or certifications in ORCA are applicable to this solicitation as indicated:

(i) [52.203-2](#), Certificate of Independent Price Determination. This provision applies to solicitations when a firm-fixed-price contract or fixed-price contract with economic price adjustment is contemplated, unless—

(A) The acquisition is to be made under the simplified acquisition procedures in [Part 13](#);

(B) The solicitation is a request for technical proposals under two-step sealed bidding procedures; or

(C) The solicitation is for utility services for which rates are set by law or regulation.

(ii) [52.203-11](#), Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions. This provision applies to solicitations expected to exceed \$150,000.

(iii) [52.204-3](#), Taxpayer Identification. This provision applies to solicitations that do not include the clause at [52.204-7](#), Central Contractor Registration.

(iv) [52.204-5](#), Women-Owned Business (Other Than Small Business). This provision applies to solicitations that—

(A) Are not set aside for small business concerns;

(B) Exceed the simplified acquisition threshold; and

(C) Are for contracts that will be performed in the United States or its outlying areas.

(v) [52.209-5](#), Certification Regarding Responsibility Matters. This provision applies to solicitations where the contract value is expected to exceed the simplified acquisition threshold.

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(vi) [52.214-14](#), Place of Performance—Sealed Bidding. This provision applies to invitations for bids except those in which the place of performance is specified by the Government.

(vii) [52.215-6](#), Place of Performance. This provision applies to solicitations unless the place of performance is specified by the Government.

(viii) [52.219-1](#), Small Business Program Representations (Basic & Alternate I). This provision applies to solicitations when the contract will be performed in the United States or its outlying areas.

(A) The basic provision applies when the solicitations are issued by other than DoD, NASA, and the Coast Guard.

(B) The provision with its Alternate I applies to solicitations issued by DoD, NASA, or the Coast Guard.

(ix) [52.219-2](#), Equal Low Bids. This provision applies to solicitations when contracting by sealed bidding and the contract will be performed in the United States or its outlying areas.

(x) [52.222-22](#), Previous Contracts and Compliance Reports. This provision applies to solicitations that include the clause at [52.222-26](#), Equal Opportunity.

(xi) [52.222-25](#), Affirmative Action Compliance. This provision applies to solicitations, other than those for construction, when the solicitation includes the clause at [52.222-26](#), Equal Opportunity.

(xii) [52.222-38](#), Compliance with Veterans' Employment Reporting Requirements. This provision applies to solicitations when it is anticipated the contract award will exceed the simplified acquisition threshold and the contract is not for acquisition of commercial items.

(xiii) [52.223-1](#), Biobased Product Certification. This provision applies to solicitations that require the delivery or specify the use of USDA–designated items; or include the clause at [52.223-2](#), Affirmative Procurement of Biobased Products Under Service and Construction Contracts.

(xiv) [52.223-4](#), Recovered Material Certification. This provision applies to solicitations that are for, or specify the use of, EPA–designated items.

(xv) [52.225-2](#), Buy American Act Certificate. This provision applies to solicitations containing the clause at [52.225-1](#).

(xvi) [52.225-4](#), Buy American Act—Free Trade Agreements—Israeli Trade Act Certificate. (Basic, Alternate I, and Alternate II) This provision applies to solicitations containing the clause at [52.225-3](#).

(A) If the acquisition value is less than \$25,000, the basic provision applies.

(B) If the acquisition value is \$25,000 or more but is less than \$50,000, the provision with its Alternate I applies.

(C) If the acquisition value is \$50,000 or more but is less than \$67,826, the provision with its Alternate II applies.

(xvii) [52.225-6](#), Trade Agreements Certificate. This provision applies to solicitations containing the clause at [52.225-5](#).

(xviii) [52.225-20](#), Prohibition on Conducting Restricted Business Operations in Sudan—Certification. This provision applies to all solicitations.

(xix) [52.225-25](#), Prohibition on Engaging in Sanctioned Activities Relating to Iran-Certification. This provision applies to all solicitations.

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REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS**

(xx) [52.226-2](#), Historically Black College or University and Minority Institution Representation. This provision applies to—

(A) Solicitations for research, studies, supplies, or services of the type normally acquired from higher educational institutions; and

(B) For DoD, NASA, and Coast Guard acquisitions, solicitations that contain the clause at [52.219-23](#), Notice of Price Evaluation Adjustment for Small Disadvantaged Business Concerns.

(2) The following certifications are applicable as indicated by the Contracting Officer:

[Contracting Officer check as appropriate.]

(i) [52.219-22](#), Small Disadvantaged Business Status.

(A) Basic.

(B) Alternate I.

(ii) [52.222-18](#), Certification Regarding Knowledge of Child Labor for Listed End Products.

(iii) [52.222-48](#), Exemption from Application of the Service Contract Act to Contracts for Maintenance, Calibration, or Repair of Certain Equipment Certification.

(iv) [52.222-52](#), Exemption from Application of the Service Contract Act to Contracts for Certain Services—Certification.

(v) [52.223-9](#), with its Alternate I, Estimate of Percentage of Recovered Material Content for EPA—Designated Products (Alternate I only).

(vi) [52.223-13](#), Certification of Toxic Chemical Release Reporting.

(vii) [52.227-6](#), Royalty Information.

(A) Basic.

(B) Alternate I.

(viii) [52.227-15](#), Representation of Limited Rights Data and Restricted Computer Software.

(d) The offeror has completed the annual representations and certifications electronically via the Online Representations and Certifications Application (ORCA) website at <http://orca.bpn.gov>. After reviewing the ORCA database information, the offeror verifies by submission of the offer that the representations and certifications currently posted electronically that apply to this solicitation as indicated in paragraph (c) of this provision have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer and are incorporated in this offer by reference (see FAR [4.1201](#)); except for the changes identified below [*offeror to insert changes, identifying change by clause number, title, date*]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

FAR Clause #	Title	Date	Change

Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted on ORCA.

**SECTION K OF NNG11341433R
REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS**

(End of provision)

K.2 INFORMATION REGARDING RESPONSIBILITY MATTERS (52.209-7) (JAN 2011)

(a) *Definitions.* As used in this provision—

“Administrative proceeding” means a non-judicial process that is adjudicatory in nature in order to make a determination of fault or liability (*e.g.*, Securities and Exchange Commission Administrative Proceedings, Civilian Board of Contract Appeals Proceedings, and Armed Services Board of Contract Appeals Proceedings). This includes administrative proceedings at the Federal and State level but only in connection with performance of a Federal contract or grant. It does not include agency actions such as contract audits, site visits, corrective plans, or inspection of deliverables.

“Federal contracts and grants with total value greater than \$10,000,000” means—

- (1) The total value of all current, active contracts and grants, including all priced options; and
- (2) The total value of all current, active orders including all priced options under indefinite-delivery, indefinite-quantity, 8(a), or requirements contracts (including task and delivery and multiple-award Schedules).

“Principal” means an officer, director, owner, partner, or a person having primary management or supervisory responsibilities within a business entity (*e.g.*, general manager; plant manager; head of a division or business segment; and similar positions).

(b) The offeror [] has [] does not have current active Federal contracts and grants with total value greater than \$10,000,000.

(c) If the offeror checked “has” in paragraph (b) of this provision, the offeror represents, by submission of this offer, that the information it has entered in the Federal Awardee Performance and Integrity Information System (FAPIIS) is current, accurate, and complete as of the date of submission of this offer with regard to the following information:

(1) Whether the offeror, and/or any of its principals, has or has not, within the last five years, in connection with the award to or performance by the offeror of a Federal contract or grant, been the subject of a proceeding, at the Federal or State level that resulted in any of the following dispositions:

(i) In a criminal proceeding, a conviction.

(ii) In a civil proceeding, a finding of fault and liability that results in the payment of a monetary fine, penalty, reimbursement, restitution, or damages of \$5,000 or more.

(iii) In an administrative proceeding, a finding of fault and liability that results in—

(A) The payment of a monetary fine or penalty of \$5,000 or more; or

(B) The payment of a reimbursement, restitution, or damages in excess of \$100,000.

(iv) In a criminal, civil, or administrative proceeding, a disposition of the matter by consent or compromise with an acknowledgment of fault by the Contractor if the proceeding could have led to any of the outcomes specified in paragraphs (c)(1)(i), (c)(1)(ii), or (c)(1)(iii) of this provision.

(2) If the offeror has been involved in the last five years in any of the occurrences listed in (c)(1) of this provision, whether the offeror has provided the requested information with regard to each occurrence.

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REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS

(d) The offeror shall post the information in paragraphs (c)(1)(i) through (c)(1)(iv) of this provision in FAPIIS as required through maintaining an active registration in the Central Contractor Registration database at <http://www.ccr.gov> (see 52.204-7).

(End of provision)

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Attachment A
Space and Earth Science Data Analysis
(SESDA-III)
Statement of Work
NNG11341433R

1. PURPOSE

The purpose of this contract is to provide a broad range of services to support primarily Sciences and Exploration Directorate (SED, Code 600) Earth and Space science research and development, data operations, as well as activities in information system technologies, engineering, and education and public outreach, that enable Code 600 to successfully carry out its science missions at the Goddard Space Flight Center (GSFC).

SED science research and development activities and funding are closely aligned to NASA's science projects and programs. Science data systems in the SED exist to enable the production of science results. SED science data operations are driven primarily by science discipline-specific needs and discipline-specific approaches to how data are most effectively and efficiently made available and useful to discipline research communities.

2. SCOPE

The services required under this contract support all the science disciplines within Code 600, including, but not limited to, solar and space plasma physics, astrophysics and astronomy, planetary systems studies, astrobiology, atmospheric science and climatology, oceanography, land processes, geodynamics, and solid earth geophysics. Research and information technology support services includes scientific data analysis and visualization, modeling and simulation of physical processes, development and testing of flight project instrument and data systems, field experiments, development and operations of large-scale data management, archival and delivery systems, systems analysis, and programming; and includes engineering, technology, research and development, network engineering, and education and outreach. The contractor shall support both ongoing and new projects as required in all these areas.

Work defined under this contract is primarily funded by the SED (Code 600) although other Directorates such as the Flight Projects Directorate (Code 400), the Applied Engineering and Technology Directorate (Code 500), and the Information Technology and Communications Directorate (code 700) can utilize this contract when appropriate. These Directorates have pivotal roles in NASA's mission to pioneer the future in space exploration, scientific discovery, and aeronautics research. GSFC also has other areas of strategic responsibility that support NASA's programs and new focus areas are occasionally defined by NASA Headquarters. Most of the services provided will be in direct support to the Science, Flight Programs, Information Technology and Engineering

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organizational entities at GSFC. The technical performance requirements for this contract are defined below by category with expanded definitions.

3. TECHNICAL PERFORMANCE REQUIREMENTS

The Contractor shall provide support in the functional areas listed below. In so doing, the contractor shall coordinate activities across work elements to the extent possible in order to achieve consistent and best practices, reuse where possible, so as to maximize efficiency and benefits to the Government.

3.1 Science Support

Code 600 science research and development activities cover broadly four main areas: Astrophysics, Heliophysics, Planetary and Earth sciences. Technical support requirements in each science area, and in support of cross-disciplinary exploration missions, can vary due to differences in research methodologies and tools, instrumentation, discipline community culture and resource priorities. For *each of the science focus areas*, the following science support efforts are generally anticipated:

3.1.1 Analysis and modeling

Support is required to perform multi-mission science and instrument data analysis using theoretical, statistical and empirical techniques.

The modeling and data analysis function requires the Contractor to provide computational physics support encompassing such areas as mathematical modeling or simulation of physical theories and associated numerical and scientific analyses, pattern recognition, simulation of physical systems, image data analysis, dynamic interaction with graphical displays, and data correlation and error studies using statistical techniques. This requires problem analysis, algorithm restructuring and documentation as well as program implementation for integration both on high-end computer technology and advanced workstations via high-speed networks.

The information extraction function requires the Contractor to provide mathematical analysis and computer implementation of techniques to perform such functions as data reduction and processing, data product generation and documentation. Discipline science support may require the performance of a variety of theoretical and empirical analyses in space plasma physics, heliophysics, astrophysics, planetary and Earth sciences. Studies may include, but are not limited to, radiative transfer and microwave scattering analysis, image enhancement, noise removal, radiometric corrections, geometric correction, registration, filtering and other transformations, pattern recognition, multivariate classification, and change detection of Earth resources and meteorological image data. Included will be conducting surveys or literature searches, gathering or generating related data, setting up and conducting tests, analysis of test

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results, producing reports of the investigation, recommending solutions and development, and implementing techniques to solve particular information extraction problems.

3.1.2 Tools development

Support is required to develop tools for scientific research, mission science planning and operations, as well as instrument data analysis and processing, and to support data systems development and operations.

The Contractor shall provide research, design, integration and enhancement of technical systems consisting of hardware and/or software tools, as well as the integration of the same in support of various scientific research and operations efforts.

The scientific data processing function requires the Contractor to support the design of efficient input/output and data packing/unpacking techniques; the application of total instrument calibration results to experiment data; the development and maintenance of standard data formats (e.g., FITS, CDF, SPASE); data reformatting, conversion, and validation operations; handling and correlating satellite and detector housekeeping information required for data analysis; elimination of data overlap and merging of orbit and attitude data with experiment data where necessary; applying the appropriate data reduction algorithms to process the raw initial data into final physical units; and implementing numerical algorithms.

3.1.3 Instrument development and engineering support

Support is required to design, develop and test instruments to be flown on balloon, rocket, aircraft, and satellite missions for science investigations, as well as in ground-based field campaigns.

The engineering support function requires the Contractor to support the Government in all facets of science instrument development, including design, development, fabrication and verification of space instrumentation and ground support equipment. The Contractor shall provide engineering designs and analyses of an instrument, drafting component sections, development of electronic components and interfaces, field-testing, and verification of operations and acceptable performance of systems, subsystems, and/or instrumentation in science measurement, telemetry and data acquisition.

3.1.4 Mission Ground System and Engineering Support

The mission ground support function requires the Contractor to support ground systems development and operations, and shall require support for telemetry acquisition, storage, processing and distribution, various data displays, experiment monitoring, and science instrument operations. In

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addition, the Contractor shall be required to provide systems support such as systems configuration and local modification to the operational system. This function includes collaborating and providing support in worldwide scientific field campaigns.

3.1.5 Science data acquisition, archiving and distribution

Support is required to acquire, maintain, disseminate, and document science data archived and distributed by various science data centers within Code 600.

The multi-mission data archiving and distribution function requires the Contractor to provide Earth science and space science communities as well as general data users with access to archival data from Earth science, Astrophysics, Heliophysics and planetary missions (past, present and future). This will include acquiring, maintaining and disseminating data from previous and current missions as well as missions in multiple disciplines; providing software and data analysis support for these data sets; developing and maintaining tools for combining, displaying and visualizing the data from various missions and for multi-data set analysis; providing a uniform environment, such as interoperable virtual observatories, active and permanent archives, for searching and accessing data from centralized or distributed archives, and for analyzing and combining the data from various missions; developing and maintaining catalogs of observations and ancillary and archival information and documentations for data holdings; providing online access to catalogs of results from each mission; deriving data products from each mission; coordinating data, software, data format and media standards with external archives, including other multi-mission centers; writing and distributing a regular newsletter; distributing the Level 1 raw data, the derived Level 2 data products, catalogs of results, calibrations, analysis software, and documentation; and application of data center reference models (e.g. ISO Open Archival Information System (OAIS)) and collaborative models (e.g. virtual observatories, active and permanent archives).

The production data processing function requires the Contractor to provide support with the preparation of computer scripts for submitting and executing computer programs for the reduction, calibration, and validation of data and associated computational results. The Contractor shall maintain files and records of all data received and/or processed, checking and maintaining data inventory, integrity and gaps, set up and maintain science information libraries across a range of technologies, and online work files and production logs. The Contractor shall establish, execute and document data reprocessing and schedule. The Contractor shall provide for the creation and operation of visual displays for interactive processing of data on modern visualization equipment and hard copy devices, and for the operation of other computer-driven equipment

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used to analyze or reduce data. Display of other scientific and engineering data, data entry, and other operations analysis work shall be required.

3.1.6 Science data users and utilization support

Support is required to provide science data user and utilization support for a wide range of systems for data acquisition, archiving, access, delivery, and distribution.

The Contractor shall provide training to science data users to use applications software packages for searching, accessing, retrieving, processing and analyzing science mission data. The science data user support function requires the Contractor to conduct meetings, classes, seminars and give presentations in order to provide user support. Also included is working with and setting up visiting scientist programs, field campaigns and mission support, outreach activities, science education support and technical support for science conferences.

The science utilization support function requires the Contractor to identify and implement specific technologies for tracking the utilization of science data and products that are important to the science discipline communities and will have a benefit for the society. The latter could include multiple areas such as national and international space weather services, homeland security, air and water quality, disasters, agriculture, energy, coastal zone management, public health, aviation, ecological forecasting, and education. The Contractor shall work with the Goddard science community in identifying, proposing, and developing specific products that will be valuable to user communities or governmental agencies at the local, regional, and/or national level in making critical decisions impacting our society. This will also include international entities when applicable.

3.1.7 Mission planning, operations and systems development

Support is required to design, plan and operate space missions for science investigations. Activities requiring support include planning of mission science operations, data acquisition and distribution, data processing and development of mission data systems, data format standards, products, tools and documentation.

The mission planning function requires the Contractor to provide technical inputs to support and develop mission planning activity, schedules, resource estimates, and management documentation such as mission plans. The Contractor shall also provide supporting technical analysis for GSFC mission integration with other organizations including other NASA field centers, science working groups, advisory groups,

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investigators, and other entities. The Contractor shall identify conflicting needs and propose solutions.

The Contractor shall establish and maintain the design, development, and maintenance of mission databases including payload, hardware, experiments, requirements traceability, and operational and documentation databases. The Contractor shall organize and coordinate mission meetings and conferences as well as develop materials such as brochures, videotapes, web sites, displays, coordinate, and participate in events.

3.2 Information systems and technology support

3.2.1 Data systems development and maintenance

Support is required to develop, operate and maintain a wide range of databases, software and hardware systems for data acquisition, archiving, search, access, delivery, and distribution.

The systems development, maintenance and software systems engineering function requires the Contractor to provide support in all phases of systems development/software systems engineering and maintenance. This includes such areas as requirements definition and analysis; conceptual and detail design; configuration and integration; hardware sizing and validation; development of technical documents including information technology documents for targeted systems; software configuration and security control; and the development and control of external interfaces including digital communication networks. The Contractor must maintain all relevant systems to ensure maximum continuity of service. Such support may include aspects of mechanical, electrical, and digital engineering along with aspects of the information and computer sciences.

The database creation and data archiving function requires the Contractor to support data and metadata ingestion and archiving, database creation and management, data warehousing, data mining, retrieval and distribution, as well as data display functions, while operating effectively with the rapidly evolving data management technologies; and requires the Contractor to provide for computing systems to automatically generate data catalogs, file statistics, data quality summaries, and retrieval of data and extraction of information and knowledge from the science archives and databases created.

The application software development and use function requires the Contractor, in coordination with users community, to define specific design standards and requirements; identify and understand applicable hardware and system software capabilities and constraints; document the proposed design, develop code, test, document, and maintaining software

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packages; implementing software configuration control; and demonstrate and/or train users in program or system functionality.

The applications software development will typically be in, but not limited to, the areas of data processing, calibration, de-trending and reduction, data formatting, data search and retrieval, data display and browsing, satellite orbit configuration, image processing, noise removal, CAD/CAM, radiometric correction, geometric correction, registration, filtering and other transformations, change detection, multi-spectral classification, statistical and mathematical analysis and modeling, and related image and non-image data analysis functions. Maintenance and modification to existing operations or application software shall also be required. This function includes the removal of software errors, changing the code for improved operations, and making additions to provide new capabilities. Applications software support includes development and maintenance of web applications, web portals and visualization of science data in multi-media form, which may be suitable for research purposes or the general public. Web developers shall be trained in writing secure web and database access codes, in using code libraries, in configuration management and configuration control, and in using the required web languages such as PHP, Cold Fusion, perl, python, ASP, etc, while maintaining compliance with current NASA IT procedures and regulations.

3.2.2 Telecommunications and network management

The telecommunications function requires the Contractor to plan, develop, implement, and test advanced telecommunications systems supporting all evolving high performance networks and web based science and data systems. The Contractor shall monitor performance, gather statistics, generate reports, evaluate performance, troubleshoot, analyze and resolve problems in the area of network systems.

3.2.3 Computer systems management

Support is required to administer, manage and maintain the software and hardware of designated (e.g., non-administrative) computer systems as well as their network connectivity, accessibility, and security integrity that meet or exceed GSFC IT standards and IT security requirements.

The computer systems management function requires the Contractor to provide system administration and management that includes items such as installing, updating, securing and testing new releases of manufacturer-supplied operating systems, commercial software, and other software necessary for evolving computer systems. The Contractor shall ensure common processes and best practices are applied as broadly and

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consistently as possible towards the management and security of IT, and shall maintain systems in compliance with Agency IT and IT security requirements. The Contractor must maintain all relevant systems to ensure maximum continuity of service. Utilizing or integrating existing data sources where practical, including but not limited to NASA and GSFC IT tools, the Contractor shall provide the capability to track and readily produce inventory reports upon request of all IT systems, installed operating systems and third-party software including release and patch level across all managed computers either individually or collectively. These inventories and reports shall be in sufficient detail to demonstrate compliance with mandated Federal, Agency and Center IT security system configuration requirements.

The Contractor shall develop and maintain as directed FISMA/NIST and NASA compliant IT security plans, contingency plans and risk assessments documenting all managed computers.

The Contractor shall provide systems programming support for all phases of system software development. This includes such items as the installation, development, modification and enhancement of operating systems, systems software, data management systems, web servers, mail servers, image display and control functions, various system support routines, special device handlers, configuration management, and diagnostics for special peripherals.

The contractor areas of responsibility shall include but are not limited to setup of end-user authorization, accounting system, data backups (e.g., incremental and full of all critical system/user files and data for a rebuild to the nominal state at any point within a 6-12 month period, depending on facility requirements), routinely monitor for availability of critical updates and/or patches, maintain current/accurate information of configuration for all hardware/software, researching and specifying new systems to meet a new IT requirements, and computer security monitoring. Provide general maintenance functions required of system management performing error analysis, monitoring/tailoring system performance, monitor log files for unusual or suspicious activities and report to appropriate management, consulting, and other activities that are required of system management. Provide responsive and communicative technical support to the end-user. The contractor shall provide as needed support to NASA and/or GSFC-wide IT and IT security initiatives such as vulnerability scanning and remediation. The contractor shall provide support to the Government with the on-going development of IT systems configuration policies and enforcement. Contractor staff must comply with pertinent Agency and GSFC IT security training requirements.

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The Contractor shall provide the full range of science services required for fully utilizing a spectrum of scientific services on a spectrum of computer systems from small standalone workstations to large-scale high-end computing facilities. This includes documentation, problem tracking and resolution, code optimization or conversion, algorithm restructuring, telephone or online support, software tailoring to meet user requirements, training, performance analysis of application packages, and other activities that are required to support system activities. When appropriate, coordination with NASA's agency-wide desktop IT support contractor or Center network service providers such as the CNE, SEN or IONet is required.

The Contractor shall provide High Performance Computing (HPC) system integration, configuration, performance tuning, system operations and support of computational platforms, data storage and backups, networking and system software. Enhance and implement HPC system architecture and system design, reduce system obsolescence, and increase interoperability, compatibility and reliability for the continued future evolution of high performance computing at GSFC.

3.3 Ancillary support

3.3.1 Proposals and scientific documentation support

Support is required to work with Code 600 scientists through the Science Proposal Support Office in developing science or mission proposals and publications. This support will include development and delivery of graphical illustrations, animations, and/or data visualization materials.

The Contractor shall support the preparation and presentation of technical papers, reports and newsletters. Technical support also includes the editing function for revising and updating documents, coordinating the physical production, and distribution of various technical and mission documents.

3.3.2 Education and Public Outreach (E/PO)

Support is required to work with Code 600 scientists in support of NASA's education and public outreach initiatives. The Contractor shall support local and national science education programs, developing and maintaining E/PO websites that highlight Code 600 sciences, missions and data, developing and conducting science exhibits, supporting educational aspects of science campaigns such as Sun-Earth Day, solar eclipses, etc., mentoring and conducting training workshops for teachers and students, and preparing classroom materials. This support will include development and distribution of educational, public outreach, and curricular materials with graphical and/or digital data illustrations and visualizations.

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The educational outreach function requires the Contractor to prepare press releases of latest GSFC science discoveries, and educational materials via written, electronic, web, and audio-visual vehicles with formats that include publications, posters, instruments, apparatus, videos, software, hardware, CDROM's or DVDs, and other technology based mediums.

The science educational programs at the Center encompass outreach and partnering; development activities with schools, teachers, and students; support of generation of educational technology; sponsorship or creation of materials; and activities to improve Earth and Space science literacy involving the general public and specific audiences.

Examples of the ancillary support activities may also include writing, editing, desktop publishing, design, layout, imagery, animation, communications, publicity, documentation, presentations, visitations, field trips and expeditions, technical or scientific support of meetings and/or conferences, travel as needed, and collaborative projects with a wide range of scientists, educators and interest groups.

3.4 Work activity management

An electronic and online work activity management system is required for use by both the Government and the Contractor for insight into assessing cost and schedule performance and to facilitate and document the management of work activities performed under the contract. The system must comply with the requirements specified in the contract clause C.3 New and Modified Funding Procedures.

Electronic and Information Technology Accessibility Standards

- Section 508 requires that when Federal agencies develop, procure, maintain, or use electronic and information technology, they shall ensure that the electronic and information technology allows Federal employees with disabilities to have access to and use of information and data that is comparable to the access to and use of information and data by Federal employees who are not individuals with disabilities, unless an undue burden would be imposed on the agency. Section 508 also requires that individuals with disabilities, who are members of the public seeking information or services from a Federal agency, have access to and use of information and data that is comparable to that provided to the public who are not individuals with disabilities, unless an undue burden would be imposed on the agency. In order to comply with the Section 508 Electronic and Information Technology Accessibility Standards, the contractor shall perform all work required under this contract in compliance with the following technical standards delineated in Code of Federal Regulations (CFR) Title 36:

Subpart B -- Technical Standards

§1194.21 Software applications and operating systems.

§1194.22 Web-based intranet and internet information and applications.

§1194.23 Telecommunications products.

§1194.24 Video and multimedia products.

§1194.25 Self contained, closed products.

§1194.26 Desktop and portable computers.

Subpart C -- Functional Performance Criteria

§1194.31 Functional performance criteria.

Subpart D -- Information, Documentation, and Support

§1194.41 Information, documentation, and support.

Emergency Preparedness and Response

The Contractor's obligation may include resolution of unusual or emergency situations. The Contractor may be required to support NASA, within the general scope of work, but in currently unidentified ways, in preparation for, or in response to emergencies. Obligations under this requirement shall only arise when one or more of the criteria at FAR 18.001, enabling NASA to utilize "Emergency Acquisition Flexibilities", are met. If the emergency preparedness and response requirements result in changes to the contract, all contract adjustments will be processed in accordance with the Changes clause of this contract.

Attachment B - Statement of Work Addendum

Work Activity Plan (WAP) Descriptions

WAP #	WAP Description	Statement of Work	Mail Code
410.0-001-04	SAM Instrument	Provide on-site instrument development support for the Sample Analysis at Mars (SAM) instrument suite within the Atmospheric Experiments Laboratory (Code 699). This work activity provides the engineering and technician support to design, build and test flight instrumentation and related components and to provide post-launch and mission support for the SAM instrument suite.	699
417.0-001-02	GOES-R Communications Support Services	The National Oceanic and Atmospheric Administration (NOAA) Geostationary Operational Environmental Satellite R-Series (GOES-R) Program provides continuity of operations to meet NOAA's mission. The GOES-R program ensures system users are ready to use the system on day one and NOAA is prepared for the operational changes that will occur with this next generation system. In addition to this internal coordination, the program is responsible for providing audiences beyond NOAA with information and materials related to GOES-R that increase awareness of NOAA's science, products, and services, in order to promote environmental stewardship, personal safety, and an improved economy. The program also educates audiences on the application of geostationary environmental observation data to the world's atmosphere, climate, oceans and coastal ecosystems in order to achieve greater environmental literacy, personal safety, and an improved economy. Audiences may include key stakeholders, the science community, academia, international organizations, the general public, and federal, state, and local agencies. GOES-R coordinates education and outreach activities with NESDIS Headquarters, the NOAA Office of Education, and NOAA Office of Communications. Staff members provide direct support to the GOES-R Program Office in the areas of creating scientific and programmatic materials and providing the coordination and logistics support to accomplish the work activity. Contractor responsibilities include the following: Create an integrated outreach communications strategy for the GOES-R Program to include development of core suite of outreach print products and presentations that can be tailored to a wide variety of target audiences. This strategy would include development of core messages, framework for suite of materials, web site analysis, content development and web traffic plan, and possible multimedia products. Development of both inreach and outreach strategy to increase awareness of Program status. Explore and suggest use of innovative communication techniques such as Twitter, Facebook, web blogging (must benchmark best practices/success stories within other govt entities). Support the GOES-R Outreach Coordinator and serve as a liaison between NESDIS, NOAA, DOC, industry partners, NASA, and other GOES-R team members. Strategically develop and plan the implementation of outreach products within budget and established deadlines. Spearhead development of audience specific and scientifically focused, outreach materials and web content for primary target audiences that showcase value of the Next Generation GOES-R suite of satellites. Lead graphic design, editing and content review of all materials to ensure cohesiveness across materials and across all communication efforts. Develop unified suite of print-ready products for NOAA or NASA Printing Offices in accordance with all Agency print and communications guidelines. Responsible for conducting submission of monthly work activity reports, integrated outreach strategy and performance analysis/metrics. Develop and implement annual outreach strategy in line with GOES-R and related mission statements and NOAA education and public outreach objectives. Establish and provide consistency, congruity, clarity and focus in all integrated outreach	417

423.0-001-00	ESDSWG Website Maintenance	This activity will maintain and enhance the information pages that describe the on-going work in support of overcoming NASA's Earth Science data system challenges. The contractor will provide support for: - the Earth Science Data System Working Groups website (formerly known as the Strategic Evolution of ESE Data Systems, SEEDS), - the Research, Education, and Applications Solutions Network (REASoN) website, the Private REASoN website, the EOSDIS Evolution page, - the REASoN/ACCESS/MEaSURES e-Books software and website, and the Metrics Collection Tool software and website, and the Single Sign-On authentication service for them.	
427.0-002-03	Landsat Data Continuity Mission Support	The LDCM Project requests part time support for a technical writer/presentation support employee to support our upcoming MDR and many other technical reviews. Experience in gathering and researching technical documentation from a variety of staff members is needed. Ability to use power point and other presentation tools is required. Coordination and organization skills are required as many of the documents and presentations will be used repeatedly throughout the next 12 months.	427
442.0-001-01	Human/Robotic Servicing Capabilities	The contractor shall (1) assess and report on applications of human/robotic servicing capabilities and (2) support outreach and communications strategies. The contractor shall provide expertise in astronomical strategic planning for the agency, and will expand on and communicate science goals made possible by the future on-orbit servicing plans being developed by the GSFC Satellite Servicing Capabilities Office (SSCO).	450
443.0-001-04	JWST Information Management	This Work Activity coordinates and supports the use and security of JWST Program IT resources. This Work Activity also coordinates and supports the maintenance and development of the JWST world wide web presence. Functions under this Work Activity include: A. Serve as JWST webmaster, maintain server computer, server software and website layout, format and content. HTML, XML, XSL, CGI, Perl and Java programming as needed to maintain the WWW site and features. B. Serve as application software administrator for JWST project applications, such as Doors (requirement tracking), Citrix (secure remote access), Matlab, Meeting Maker (calendar). Where appropriate, administer server computers, hardware and software. Provide user support. C. Advising Program on program-wide IT system upgrades and improvements. Includes studying and recommending new products, coordinating major IT purchases with Project Office, coordinating testing and reporting of program-wide software (e.g. MeetingMaker). D. Participate in and administer project communications efforts, including support for JWST Videoconferencing and WebEx (virtual meetings). E. Perform as Alternate Computer Security Official(s) for the JWST project and maintain project IT security, including: 1. Coordinating and verifying patch and/or upgrade efforts for program wide servers and in conjunction with the HSTNet group as needed. 2. Interacting with HSTNet, Code 400 and GSFC Center IT security groups as well as those security groups from other entities working with the program (e.g., STScI, Prime contractor, instrument teams). 3. Ensuring JWST program compliance with Agency and Center IT security policies and procedures as well as computer accessibility requirements F. Act as IT technical point-of-contact between JWST program staff and HSTnet, ODIN, Code 400 and GSFC. Coordinate network architecture and network security plan with HST network team, as well as directorate and center organizations. G. Administer Wolfworks Integrated Modeling Facility. Maintain workstations and AV equipment, install and upgrade system engineering software, maintain hardware, software, operating systems, network and IT security. Support the developers of the customized integrated modeling software tools as needed. H. Administer Windows and Macintosh computers located in the JWST Wavefront Control Testbed, responding to security or upgrade issues as they arise. I. Support for JWST Education & Public Outreach functions, including public website content management, production of outreach materials, and participation in ASD outreach efforts (podcasts, etc.) that publicize JWST.	443

448.0-001-00	Survey Strategy Evaluation Support for WFIRST	The contractor shall support the WFIRST Project Office in pre-Phase A concept development for the WFIRST mission. Tasks will include generating survey simulation tools suited to evaluation of candidate WFIRST survey strategies. These tools must be adaptable to different WFIRST instrument field of view layouts as the mission design evolves. Examples of the metrics these tools shall provide for assessment of the candidate survey strategies include: a) number of pointings needed to survey a given region of sky b) uniformity of coverage (distribution of exposure time) c) distribution of sky background intensity Analyses of specific observing scenarios and instrument layouts will be performed with these tools, as directed by the WFIRST Project Office.	665
461.0-001-03	Electrostatic Modeling of MMS	The Magnetospheric MultiScale mission spacecraft will spend a minimum of 2 years in highly eccentric Earth orbits, 1.2 x 12 RE at approximately 28 degrees inclination and 1.2 x 25 RE. During their lifetimes the spacecraft will be subject to geosynchronous substorm surface-charging environments, moderately dense low-energy plasma at perigee, charged particles from the trapped proton and electron belts, the low energy solar wind, and MeV-charged particles from solar flares. The electrostatic charging of both spacecraft surfaces and dielectrics within the spacecraft due to the space environment are of concern for both the health and performance of the spacecraft. SOW consists of the following activities: 1. Spacecraft charging modeled by code calculation. With the appropriate inputs on the various environments and the spacecraft from NASA/GSFC, calculate: a. maximum and typical surface potentials to be seen on the spacecraft chassis, insulated areas, surface conducting areas, individual spacecraft systems, including boom elements, the solar array, and science instruments. Three different methods of solar cell grounding and grouting will be evaluated. This includes computation of differential potentials and implications for leakage current flow. b. resulting potentials in the space surrounding the spacecraft and charged particle trajectories and work with MMS science team to analyze potentials around boom elements and other science instruments. c. deep dielectric charging levels anticipated, particularly in the spacecraft harness and on printed circuit boards; e. probability of arcing activity, including an estimation of the maximum discharge currents to be experienced. 2. Spacecraft charging design guidelines. Apply the principles of NASA and MIL-STD documents as well as the state of the art on spacecraft charging to the MMS mission. Included in this work activity would be recommendations about minimum conducting paths and grounding. 3. Shall support the MMS Electrical Systems Control board and maintain the Nascap-2k MMS model as needed.	461

461.0-002-02	MMS Engineering Support	<p>MMS is a NASA Science Mission Directorate (SMD) Heliophysics Division flight project in the Solar Terrestrial Probes (STP) Program. MMS is a space physics research mission to discover the fundamental plasma physics processes of magnetic reconnection in the Earth's magnetosphere. Magnetic reconnection occurs when the charged particles and wave energy emanating from the sun in the Solar Wind interact with the Earth's magnetic field. Four identically instrumented satellites will measure electric and magnetic fields, fast plasma, energetic particles, and hot plasma composition at time scales of milliseconds to seconds and spatial scales of 10s to 100s of km. The satellites will fly in a tetrahedron formation to explore the day side of the magnetopause and the night side of the magnetotail in three dimensions. The specific MMS science objectives are: - Determine the role played by electron inertial effects and turbulent dissipation in driving magnetic reconnection in the electron diffusion region. - Determine the rate of magnetic reconnection and the parameters that control it. - Determine the role played by ion inertial effects in the physics of magnetic reconnection. The MMS mission has several characteristics in common with the Time History of Events and Macroscale Interactions during Substorms (THEMIS) mission. Both missions are designed to study magnetic events, and thus they have similar magnetic field and particle instruments, and strict controls on the magnetic cleanliness of the host spacecraft. They also both study widely-dispersed magnetic fields, requiring a constellation of spacecraft (5 for THEMIS, 4 for MMS) flying in formation.</p>	461
474.0-001-00	JPSS Ground Segment System Administration	<p>The Contractor shall provide computer systems administration support at the Greentech IV facility to support local IT systems (Linux and Windows workstations on a NASA network) as well Red Hat and AIX servers at the NOAA Suitland facility. In performing the work, the Contractor shall: A. Manage, log, report, diagnose, and correct observed and reported software, hardware, and network problems. B. Implement, manage, and execute backups of supported computer systems. C. Manage and implement a secure computing environment by monitoring and reporting computer security problems, installing new and improved software, and proposing and implementing security practices. D. Perform operating system, compiler, and application software updates to maintain performance and security of the systems. E. Update and maintain information on the configuration of the systems being supported. F. Integrate new computers, peripherals and network switches/routers into the computing facilities listed above. G. Monitor and tune data systems to improve performance and reliability in generating, archiving and distributing global environmental data and science products. H. Develop scripts and web pages as required to support system administration functions or other activities supporting global product generation, distribution or outreach to the community. I. Develop and maintain documentation of systems administration procedures. J. Work with users, developers, and scientists, and support procurement and shipping processes.</p>	586
544.0-002-01	CLARREO Mechanical Design	<p>Provide expert mechanical and opto-mechanical design support for the CLARREO instrument concept in the following areas: (1) Optics Packaging - Iterate the packaging of the various optic elements within a specified volume. Iterate the optic-mechanical mounting concepts considering the optic interface, mount structure and instrument bench design taking into consideration optic sensitivities (stability and temperature delta, etc). (2) Instrument Structure - Iterate the instrument housing/structure such that the need for separate optic mounts is minimal (i.e. the optic would mount directly to the housing via some tailored interface). (3) Filter Wheel - Iterate the current ISAL design to again reduce some risk. Mechanism volume, mechanism for stability over and observation, actuator and bearing selection, etc are candidates for investigation.</p>	544

551.0-002-01	JWST ISIM Optics Test Planning Support	The Integrated Science Instrument Module (ISIM) Optics Team supports the James Webb Space Telescope Project at Goddard Space Flight Center. The Optics Team will provide support for Optical Verification of the ISIM Element (includes metering structure and Science Instruments) in the SES Chamber at Goddard. The contractor shall support the team in developing and documenting the optical test flows, plans, procedures, and data analysis tools required for ISIM Element level verification of optical requirements during ISIM CryoVac 1 and 2 tests. Team members will also be asked to identify key optical and/or data analyses that need to occur to prove feasibility of the recommended test or analysis approach. The optical requirements to be verified during these tests have been parsed to 6 Optical Performance Requirements Groups (OPRGs). Each OPRG contains a set of separate related optical requirements that need to be verified. The categories are: 1. Optical Baseline and Calibration Group (OBCG) 2. ISIM Capabilities (OPRG1) 3. Focus, Plate Scale, Wavefront Error (OPRG2) 4. Pupil alignment, Pupil Shear and Roll (OPRG3) 5. Field of View, Vignetting, Stray Light (OPRG4) 6. Co-Boresight Stability (OPRG5) 7. WFS&C (OPRG6) The test planning team will also define the optical baseline for each SI to serve as an early ISIM element level performance baseline against which relative changes in instrument performance can be tracked during the test campaign.	551
552.0-001-04	Cryogenics Laboratory Support	This activity provides support for research and development in low temperature thermal, physics, and Astrophysics.	552
553.0-001-01	Large Format Array Testing Support	GSFC has a requirement to develop large format bolometer arrays for ground based, airborne, and balloon-borne astronomy. This work involves the testing of microbolometers and related microelectronics devices. The facilities required for this work are located primarily in the GSFC building 11. The contractor shall provide engineering support for the testing of superconducting films and related devices. The in-house contractor shall follow established written procedures and laboratory practices and adhere to all Code 553 Branch Safety Policies. Training will be provided by Code 553 Branch personnel. At no time will the contractor be expected to operate the Kelvinox 25 Dilution Refrigeration system without supervision/assistance by trained personnel.	553
554.0-003-00	Laser Altimeter Instrument Concept Development	This task shall provide instrument concept design and drafting support for a laser altimeter instrument based on previous designs built at GSFC such as the Mercury Laser Altimeter (MLA) and the Lunar Orbiter Laser Altimeter (LOLA). The designer shall meet with the instrument concept team on a bi-weekly basis as necessary to provide design guidance and incorporate concept updates into the CAD model.	694
556.0-002-03	Fast Plasma Investigation (FPI) Mechanical Design	Shall provide mechanical design support for the development of the MMS Fast Plasma Investigation (FPI) Instrument Data Processing Unit (IDPU). Currently, effort is required to finalize IDPU electronics assemblies for flight readiness.	673
556.0-003-00	MOMA Electrical Ground Support Equipment	Contractor shall provide expertise to support development of the electrical ground support equipment (EGSE) for the MOMA mass spectrometer. The contractor shall work with technical specialists agreed upon with the Goddard Space Flight Center (GSFC) MOMA implementing team to aid in the design and development of the EGSE for the MOMA instrument. Existing knowledge of and experience with mass spectrometer instrument operation and EGSE needs is considered critical for the success of this project. As directed by the GSFC team, the contractor shall perform specified requirements.	556
585.0-003-00	GSFC Software Process Improvement Support - Extension 1	The purpose of this work activity is to support the GSFC Software Process Improvement (SPI) Project in advancing GSFC's software engineering practices to effectively meet the scientific and technological objectives of NASA and the GSFC. This work is an extension to work activity 585.0-002.	

586.0-004-07	Science Processing Support Office Task	Work activities are focused on the collection and analyses of the archival, distribution and user metrics related to EOS and non-EOS products that are archived and distributed at NASA-sponsored data centers. The results of the metrics analyses are used to ensure optimal utilization of the resources allocated to such data centers. The objectives of this work activity are to 1) support the operation of the ESDIS Metrics Systems (EMS); 2) collect and analyze the ingest, archive, distribution and user metrics and perform special metrics analyses; 3) develop, maintain and enhance multiple ESDIS-related web sites; 4) provide system and database administration support; and 5) perform as primary ESDIS Interface Coordinator for all instruments whose data are archived and distributed at ASDC (MISR, TES, MOPITT), and perform as backup ESDIS Interface Coordinator for AMSR-E and GLAS, and provide administrative and technical support to the ESDIS Project and Instrument teams.	423
587.0-001-04	ESDIS Outreach Support	General information about the work, high-level overview Earth Science Data and Information System (ESDIS) Science Operations Office (SOO) manages the data centers that process, archive, document, and distribute data from NASAs past and current Earth System Science research satellites and field programs. Staff members provide direct support to SOO in the areas of creating and marketing data and services outreach materials and providing the coordination and logistics support to accomplish the work activity. The purpose of this work activity is to promote the interdisciplinary use of Earth Observing System Data and Information System (EOSDIS) resources including data products, data services, and data handling tools to a broad range of existing and potential user communities.	423
588.0-002-05	Goddard Mission Services Evolution Center (GMSEC) Support	To provide task-level communications, tracking and documentation support for the GMSEC program.	580
588.0-005-08	Goddard Technology Management Office (GTMO) Support	Design, implement, and enhance the workflow of Internet/Intranet applications that automate time- and event-driven management processes.	580
588.0-006-09	Operations Support	To provide maintenance and operations support to the Software Engineering Division (Code 580)	580

588.0-008-11	C3I Exploration Initiatives Support	Web Applications Design, implement, and enhance the work flow of Internet/Intranet applications that automate time- and event-driven management processes. In addition, provide design and development expertise for Internet/Intranet websites for C3I Exploration Initiatives while maintaining current documentation on Groove/SharePoint and Windchill portals. For all new web applications, a prototype system will be designed based on the requirements from the team. The prototype will provide the team with a look and feel for the web pages and with the flow of the information presented. Any new requirements derived from this review process will be incorporated into the system and again presented to the team. This approval process will continue until the team declares the system ready for production. All work will include requirements development, design, implementation, and testing of the delivered applications. Internet/Intranet-based systems will be developed as needed. Web development tools such as ColdFusion Studio, JSP, and Dreamweaver, may be used to create web pages. Graphics will be designed using drawing and illustration applications such as Photoshop and Illustrator. Documentation We will use the existing portal Groove/SharePoint/Windchill and tools, including software and hardware and will follow the process already established and agreed upon by the C3I Exploration Initiative Teams involved, including version control and configuration management. In order to disseminate knowledge and information on C3I Exploration Initiatives to NASA and outside communities, brochures and presentations, documents, and websites will be prepared as needed. The C3I Exploration Initiative Management staff will determine the review process for the electronic and hard copy materials. This review process will be followed for the development and delivery of the products of this activity.	580
601.0-001-04	ASD Technical Support	This activity provides support for the design, construction, analysis, and troubleshooting of electrical/electronic systems in the Astrophysics Science Division.	660.3
601.0-002-05	Time Dependence of Stellar Phenomena Observed in IUE Spectra	The objective of this work is to extend and complete work on the improved, SWP extraction software for extracting echelle spectra from NEWSIPS SIHI images and extend it to operate on long wavelength, LWP and LWR, data.	695
605.0-002-02	SSDOO Mission Planning	The Contractor shall participate in identification, evaluation, and testing of mission planning automated tools and techniques and support the infusion of viable technologies into the GSFC mission planning process.	605
605.0-003-02	Science Proposal Support Office Services	The Science Proposal Support Office (SPSO) support Goddard scientists and technologists in responding in a timely and effective manner to proposal opportunities offered by NASA and other Government agencies. Various SPSO services are available to GSFC civil servants and contractors, including proposal strategic planning, red team support, budget preparation, and NSPIRES data uploading.	665
605.0-004-02	Code 605 Mission Cost Modeling	The contractor shall: (1) Support Code 605 mission planning and formulation activities using NASA cost estimating methods, tools and techniques. (2) Obtain training as necessary to provide support with cost estimates prepared using the NASA Air Force Cost Model (NAFCOM) and the NASA Instrument Cost Model (NICM). (3) Support parametric cost modeling in the Instrument Design Laboratory (IDL). (4) Support parametric cost modeling in the Mission Design Laboratory (MDL).	605

606.0-006-02	SED Data Center Support	The Sciences and Exploration Directorate is establishing a consolidated Data Center to house servers that support Code 600 requirements. The goal of the consolidated Data Center is to better manage the Directorate's IT, to meet Agency mandates and initiatives for consolidation, and to address the need for a Data Center remote from Building 34 to support science users. This Data Center should be efficient and meet end-user needs. The servers should employ virtualization where appropriate. The servers shall also support the Code 600 consolidated web site(s).	660.2
606.0-007-02	Directorate IT Security Support	The contractor shall support the Code 600 DCSE in planning/coordination, security process improvement, policy development, and metric collection.	606
606.0-011-01	SED Web Council Development Support	The GSFC Code 600 Web Council is overseeing the development of the re-design of the SED Line Organizations' web sites. The new design has three major sections: Organizational pages, Science & Engineering Professional Resources pages, and E/PO Resources pages. The work activity has high visibility as the Directorate strives for a uniform look and feel and structure across all projects and labs.	606
606.0-012-01	Extension to 606.0-012 Alternatives and Supporting Studies for NCCS	As part of its ongoing planning efforts for the NCCS, CISTO recently completed an Analysis of Alternatives (AOA) to address broad questions about how best to provide the resources needed for the NCCS to deliver high performance computing and data services to NCCS users. The objective of the AOA was to identify alternative approaches for CISTO implementation of the NCCS, analyze those alternatives in the context of the NCCS environment and constraints, and recommend the alternative that best meets NCCS goals and objectives - goals and objectives that are derived from users' science requirements. As a follow on to the AOA, CISTO desires to prepare presentations for use by CISTO/NCCS management addressing the conduct and results of the AOA. CISTO also wishes to develop an analytic framework for more detailed analysis of near term options. Consultant shall perform the work activities defined below to support CISTO with meeting these needs. Sub-activity 1 provides presentations for use by CISTO/NCCS management. Sub-activity 2 develops an analytic framework by developing both a cost model and a functional model of the operations of the NCCS. Sub-activity 3 maps the functional model developed in Sub-activity 2 onto alternative near-term contractual and architectural structures to support trade studies. Deliverables and schedule for each work activity are listed after the activity.	606.2
606.0-013-00	Support for the HSEG Software Suite	Provide software engineering support for the Hierarchical Segmentation (HSEG) software package. HSEG is a sophisticated pre-processor for image and image-like data that detects patterns in data efficiently by segmenting the data and processing it using conventional serial computer architecture or, optionally, using parallel architecture. HSEG is a mature software package, with a stable, moderate-sized source code base. This work activity is focused on developing rational and well-documented configuration management processes, verification and validation processes, and tools for building and distributing the HSEG software on its supported platforms.	606.3

606.1-002-05	HECN Network Support	<p>The contractor shall provide a range of technical services from strategic network planning to operational network management to meet the HECN requirements of the CISTO. In particular, the contractor shall design and develop high speed network architectures, conduct networking technology assessment and product evaluation, perform network systems hardware and software installations and configurations, perform network system administration, and support network-related user help desk activities for the CISTO. The HECN involves world class network engineering for advanced networking technologies, protocols, and applications, in such areas as optical networking, wave division multiplexing (WDM), fixed and adaptive wavelength transponders, single and link-aggregation of multiple 10-Gigabit Ethernets (soon also 40- & 100-Gigabit Ethernets), storage area networks (SANs), High Definition based video conferencing, wireless networks, multicasting, QOS/COS, dynamic circuit provisioning using MPLS/GMPLS, alternative TCP and UDP transport protocols, and application performance optimization for very high bandwidth*delay networks. This world class expertise is applied across LAN, MAN, and WAN environments, including across high performance international networks.</p> <p>SPECIFIC REQUIREMENTS ==>> New Network Planning and Design</p> <p>a. Requirements definition. Collect and analyze user/project requirements in terms of network capacity, capabilities, adherence to standards, science benefit, budgetary constraints, and timetables. Develop an understanding of network user goals and derived requirements. Define processing and throughput requirements to be satisfied.</p> <p>b. Research Alternatives. Research alternative possible solutions to achieve identified user/project network requirements, through searches and examination of network literature on relevant state of the art network technologies, discussions and meetings with network equipment and service providers on their new capabilities, and collaboration with other partner advanced network engineering staffs. Identify processing and throughput capabilities of vendor products such as handling of Jumbo Frames, round robin packet assignments, port load balancing, or achieving certain throughput.</p> <p>c. Design options. Develop network design alternatives utilizing available leading edge network components, evaluate and select the optimum design solution based upon extensive in-depth knowledge of technology areas, and devise and prepare for appropriate network prototyping activities in support of the selected design.</p> <p>d. Develop conceptual designs for review by users and Center management to assess adequacy in meeting various requirements.</p> <p>e. After successful network prototyping activities, plan and design for the infusion of new advanced network technologies and services into the production high performance SEN.</p> <p>==>> Network Prototyping</p> <p>a. Product Selection. Based on</p>	606.1
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606.1-002-05 (Continued)	HECN Network Support (Continued)	<p>Provide support to acquire the required components for the network prototyping, or subsequently for production deployment, whether via procurement, vendor loaner equipment or beta tests, or equipment provided by collaborating network organizations.</p> <p>c. Product Testing. Develop test scenarios, determine best product configurations, and conduct product testing to determine the accuracy of vendor claims, interoperability and suitability to our environment. Beta test emerging products and perform collaborative testing with other projects internal and external to Goddard. Design configurations to stress test various products and make most effective use of limited resources. Perform objective measurements of product capabilities. Provide feedback to the vendors about problems and desired enhancements/changes.</p> <p>d. Prototype System Test and Evaluation. Initial prototyping focuses on individual component testing, to evaluate and select among competing vendor equipment. The later stages of network prototyping involve combining the selected network components into a network system that is intended to model a future new production network capability, evaluating performance of the system as a whole and the proper interoperability of all its components, identifying any problem areas, and devising and testing solutions for any identified problem areas. System testing may involve network emulation of LAN, MAN, and WAN network environments to speed up network prototyping activities, reduce overall project costs, and provide a baseline for subsequent real world testing. Develop test plans for system verification. Configure equipment to enable tests to be conducted. Run tests which may involve network simulation, configuration of physical and logical (virtual) Local Area Networks (VLANs).</p> <p>e. Based on product and prototype system assessments, provide expert reviews, suggestions, and recommendations for purchases to implement desired new network capabilities. ==>>> Deployment of New Networking Capabilities</p> <p>a. Develop an integration plan for adding new networking capabilities with minimal disruption to existing users and services.</p> <p>b. Specify network cabling/wiring plan.</p> <p>c. Install and configure new network hardware and software and redeploy older equipment where appropriate.</p> <p>d. Test performance and proper functioning of new networking capabilities.</p> <p>e. Work with early adopter pilot users to obtain user feedback, prepare for production support, and evaluate the benefits of the new technology. ==>>> User Support for SEN Internal Network</p> <p>a. Network Setup Support for newly deployed systems</p> <p>b. System Configuration Support of machine interfaces, network access</p> <p>c. Implement configuration changes to the network switches and routers, including any necessary changes to OSPF and BGP routing protocols, and layer 2 VLAN information.</p> <p>d. Troubleshoot and resolve network problems, which may include working with CNE engineers, system administrators, users and vendors where appropriate to solve the problems or at least provide temporary or permanent work-arounds.</p> <p>e. User Host System Performance Monitoring & Tuning. Tune configuration parameters and host system configurations to achieve maximum system performance.</p> <p>f. Troubleshoot and resolve network problems.</p> <p>g. Generate and maintain host databases.</p> <p>h. Monitor MRTG data to identify potential problems or need for additional network capacity.</p> <p>i. Maintain nameservers, registration databases, and monitoring tools. ==>>> User Support for SEN External Networks</p> <p>a. Provide the same type of user support as described above for the SEN Internal users, but for the external users/projects identified in 'b' below.</p> <p>b. Provide technical support and direct interface with</p>
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606.3-003-06	Direct Readout Data Systems Design and Development	Provide software support for the NPP In-Situ Ground System (NISGS). Provide System Administration support for the Direct Readout Laboratory. Work scope includes: Provide support for system administration and IT security as described below for all Direct Readout Lab computer systems on the CNE and SEN networks. Note, the computers identified below have unique requirements and must be administered in close coordination with DRL developers. All computer systems: - are to be configured, maintained and managed in accordance with the NIST 800-53 technical controls as specified in the CD-014-L-GSF-6004 IT security plan where applicable unless specifically identified and documented in the plan as a deviation and approved as an acceptable risk by the plan's system owner. - are/will be configured to be in compliance with all Agency and Center mandated IT security controls within their prescribed deployment schedules including the installation and configuration of Patchlink, CIS, FDCC and Active Directory where applicable unless specifically identified and documented in an approved waiver. - will remain as current as possible with operating system and third party software patches and upgrades with a best effort deployment of within 30 calendar days from vendor release for those with risk ratings of "critical" or "high" unless constrained by mission "freezes" or other critical operational requirements. - will remain as current as possible with anti-virus and anti-spyware software and definition files where applicable with these systems typically configured to automatically download updates and run scans at least weekly. - will be maintained such that vulnerabilities found from Center scans will be corrected, mitigated or documented as a false positive with a best effort deployment of within 30 calendar days for those with risk ratings of critical or high unless constrained by mission freezes or other critical operational requirements. - will be maintained in accordance with NPR 1600.1, section 5.24, for all systems containing data defined as sensitive per NPR 1600.1. The following DRL computers have unique requirements: fedora8, centos, ubuntu7, del.tact32, ic (CNE), ic (SEN)	606.3
610.0-001-04	EOS Project Science Office Support	This Activity provides logistical and scientific support for the Earth Observing System (EOS) Project Science Office.	613.2
610.0-002-05	MODIS Atmospheres Product Support	Provide support for the maintenance of MODIS Joint Atmospheres product (MOD08) software and web sites related to Code 610 activities.	613.2
610.0-003-03	Special NASA HQ Requests Activities	Support activities associated with all aspects of special NASA HQ presentations and other requests.	613.2
610.0-004-03	NASA SMD HQ Outreach Support	General Objectives Provide design, development, and reproduction services for public outreach materials for NASA Headquarters, and conference support for NASA Headquarters Science Mission Directorate.	613.2
610.0-007-10	Earth Science Story Development	The NASA Earth Science News & Information Team has responsibility for promoting newsworthy EOS, Heliospheric and other NASA-funded Earth science research through the news media.	610.3
610.0-011-14	AVDC Support	This Work Activity (WA) supports the development and maintenance of the Aura Validation Data Center (AVDC).	613.3
610.0-013-02	Applied Science Communication and Outreach	Provide support to the NASA HQ Applied Sciences Division. This includes: conference support, graphic design, publication production, multi-media product production, and other outreach services.	613.2
610.0-014-01	Terra Project Science Office Support	Employee will support the Terra Project Science (PSO) office in the area of technical data acquisition, will aid in the preparation of reports, presentations, and published materials both directly related to Terra Project Science and related research efforts. Employee also provides editorial support to the PSO in the preparation of the response to the Senior Review Panel as needed. Currently this consists of (but is not limited to) acquiring UNFAO and other supporting data on human consumption for input to NPP models. Staff will make contact with others as need to accomplish work activities as assigned. Staff will also support the PSO in preparing for Terra's 10 years on-orbit science and public outreach efforts. This will consist of a combination of editorial work and planning with the EOS outreach coordinator(s).	703

610.2-071-75	Global Change Master Directory Task	Provide dataset and related Earth Science services metadata and make available to scientists, students, educators, and policy makers through an online search and retrieval system.	610.2
610.2-072-75	International and Interagency Report Task	Support the Committee on Earth Observation Satellites (CEOS) International Directory Network (IDN) and Federal interagency metadata management and science activities.	610.2
610.2-073-76	Public Health Project Support	The contractor will provide programming and analysis support in using remotely sensed data for public health related research and development. Specifically: #1. Identify suitable remote sensing and disease data for the project. Process the data to the required spatial and temporal resolution. Document developed software and processing procedures. #2. Perform modeling and analysis using mathematically rigorous and scientifically meaningful methods in a timely manner. State-of-the-art methodology should be used whenever possible. Document developed software and analysis procedures. #3. Support presentation, manuscript writing, and proposal preparation.	610.2
610.2-074-77	ESDSWG Website Maintenance	This activity will maintain and enhance the information pages that describe the on-going work in support of overcoming NASA's Earth Science data system challenges. The contractor will provide support for: - the Earth Science Data System Working Groups website (formerly known as the Strategic Evolution of ESE Data Systems, SEEDS), - the Research, Education, and Applications Solutions Network (REASoN) website, the Private REASoN website, the EOSDIS Evolution page, - the REASoN/ACCESS/MEaSURES e-Books software and website, and the Metrics Collection Tool software and website, and the Single Sign-On authentication service for them.	
610.2-076-79	Support for the Precipitation Processing System (PPS)	The contract shall provide support for the Precipitation Processing System (PPS) in code 610.2 in two broad areas: the processing of TRMM data and the development of the Precipitation Processing System to support the GPM and potentially other precipitation missions.	610.2
610.2-082-02	GCMD Support of USGS Biological Resources Division	The Biological Resources Division (BRD) coordinator will make contacts with scientists based on BRD suggestions, In order to develop leads for metadata creation, the BRD coordinator will use the SMMS tool to create National Biological Information Infrastructure (NBII) metadata. The coordinator will use Global Change Master Directory (GCMD) conversion tools where metadata already exist in either DIF or another format. The coordinator will provide user support for users of biological/ecological data set information in the GCMD and NBII. The coordinator will provide a liaison between the GCMD and NBII technical staff on technology development, including distributed indices and searches, metadata crosswalks, etc.	610.2
610.2-085-01	ACP- Atmospheric Composition Portal	Provide a new portal (Atmospheric Composition Portal- ACP) to facilitate transfer and display of Atmospheric Composition NASA-GSFC and Forschungszentrum der Bundesrepublik Deutschland Luft- und Raumfahrt (DLR), Germany's national research center for aeronautics and space. This portal will provide data and web-based service related to atmospheric composition datasets that can be searched and filtered (L3 data sets). A part of the work activity is to develop appropriate community requirements and use cases with the science and user communities and to foster relationships with other organizations; develop a detailed description of the interoperability framework for the datasets and tools and provide description of data, metadata, and interface standards and protocols and guidance for their implementation. Deliver a Beta release of the portal.	610.2

610.2-086-01	Monsoon Asia Integrated Regional Study (MAIRS)	Develop and maintain Monsoon Asia Integrated Regional Study (MAIRS) data and information services center (DISC) focusing on the support of MAIRS data products and services. The GES GSFC MAIRS work activity will highly leverage the already developed components and data from the successful NASA NEESPI Data Center. Support shall include a Web portal, Giovanni visualization services, data access, and outreach activities including supporting Nanjing University of Information Science and Technology (NADSC) staff and MAIRS scientists in use NASA satellite remote sensing data.	610.2
610.2-087-01	MDSA- Multi-sensor Data Synergy Advisor	The Multi-Sensor Data Synergy Advisor (MSDSA) is a framework, including software, ontologies, rulesets and related tools, which aims to support NASA Decadal Survey missions data users in a number of operations involving multiple datasets: data merging, cross-calibration, validation, cross-comparison and fusion. This framework will provide scientists improved access to data and software tools and the ability to discover and consolidate shared services for more effective use of data in the science community. By allowing researchers to combine and compare data from multiple sensors, such that scientifically and statistically valid conclusions can be drawn, the MSDSA will enhance cross-mission synergy and enable the creation of new information products (e.g., merged parameters from separate satellite platforms that increase global spatial and/or temporal coverage). This is a collaborative work activity involving NASA, Univ. of Maryland (Baltimore Campus), Rensselaer Polytechnic Institute (RPI) as man collaborators. SESDA II staff provide supporting data and development services according to the priorities that are identified by the technical monitor.	610.2
610.2-088-01	Web GCDC	Provide Web support for Global Change Data Center management which include but not limited to: web application setup, web design and development, web prototype, user support	610.2
610.2-089-01	H-DISC Maintenance	This WAP support ongoing activities within the Hydrology Data and Information Services Center (HDISC), including data-support for: - Routine ingest and archive of GLDAS, NLDAS and related data sets, including reprocessed data - Data reconciliation with data providers - Data distribution to the science user community	610.2
610.2-090-01	M-DISC Ancillary	Provide GMAO-5 and MERRA ancillary data support, with the minimum interruption to services, ensuring that NCEP, and other ancillary data products, if any, are available to GMAO-5 and MERRA data processing. If interruption to services occurs and ancillary data delayed, personnel will be notified and respond immediately to ensure ancillary data will again be available to GMAO-5 and MERRA processing. Interruption to delivery recovery will be minimized and recovery attempts must commence upon notification.	610.2
610.2-091-01	Giovanni Externally Funded Support	This activity leverages and augments the Giovanni Maintenance (G3M) WAP core work, specifically to address G3 bug fixes and usability enhancements. Coordination between the Government work activity monitor and the task lead will result in a prioritized list of activities to work from. The agreed upon list of activities will be the first delivery. Prioritized items comprise the remaining deliverables. The Government work activity monitor and the task lead will discuss and agree to any reprioritizing that may be needed due to previously unknown significant bug fixes or new important usability enhancements, monthly or on a frequency mutually agreed upon.	610.2
610.2-093-01	Long Term Aerosol Support	This work activity is to provide support for externally funded work on Long Term Aerosol. The work activity consists of research or services provided by the GES-DISC staff in support of Long Term Aerosol related work.	610.2
610.2-094-01	AeroStat	AeroStat will provide a collaborative research environment where aerosol scientist can seamlessly share AeroStat workflow execution, algorithms, best practices, known errors and other pertinent information with the science community so other users of the system can reproduce their results. AeroStat will allow users to share the full details of individual case studies by publishing them on a Wiki.	610.2

610.2-095-01	MEaSURES Data at the GES DISC	Seven MEaSURES Projects will be delivering datasets to the GES DISC for archive and distribution starting in 2011. This WAP constitutes the "MEaSURES Mission at the GES DISC" in support of this activity. These datasets will require joint planning with the dataset providers and DISC staff to ingest, archive and distribute these data to the science user community. GES DISC will provide operational science data support for these datasets. The GES DISC approach is to implement a standalone system that re-uses GES DISC system components (e.g., S4PA) that will house the data archive and distribution of all 7 projects. Thus, theoretically, the MEaSURES data management must not impact the management of other datasets already resident at the GES DISC in a negative manner, and vice versa. Appropriate capabilities for data archive, search, and access afforded existing GES DISC datasets will also be provided to the MEaSURES datasets. Advanced data services (e.g., subsetting, format conversion) will be investigated and implemented where appropriate.	610.2
610.2-098-01	Data Quality Screening Service (DQSS)	Leveraging existing technology, develop and maintain a system that will allow the user to apply quality screening on the fly. The service will be deployable as a simple REST (Representational State Transfer) Web Service at the data provider, taking as input the original data product and producing as output the same product, but with quality screening applied according to the science team's recommendations.	610.2
610.2-100-01	LANCE Near Real Time support	Integrate appropriate products and services into the near real time systems for AIRS and MLS. Troubleshoot NRT science data processing and data distribution services as needed. Provide documentation on NRT products and services and make these available to the NRT web site as appropriate. Provide off hours monitoring and troubleshooting of the NRT systems.	610.2
610.2-101-00	Software Engineering	Provide Software engineering services in support of the GES-DISC particularly as relates to Mirador, Interoperability Standards, Agile Giovanni as well as systems engineering support for GES-DISC activities. Implement Agile Giovanni based on a loosely coupled, workflow-centric architecture. Agile Giovanni is expected to be the next generation data analysis and visualization for science data exploration at the GES DISC. Maintain and enhance data availability through the OpenDAP interface. Enhance and support the HTTP Services framework and netCDF conversion capabilities. Maintain Mirador interface and server services. Maintain S4PA archiving software, including the interface to ECHO. Provide systems engineering support for non-ECS systems. For non-ECS operational systems, Support Agile Giovanni sprints and enhancements as prioritized by Government work activity monitor.	610.2
610.2-102-00	Giovanni (G3M)	The purpose of this work activity is to continue maintaining and enhancing the current Giovanni 3 (G3). G3 enhancements should be based on guidance and requirements as developed by the science team from the various DISC science projects. The new direction for the GES-DISC Giovanni visualization is to switch to Agile Giovanni, so the activities and services in this WAP should be limited to enhancements that are considered as "low hanging fruits" (not require significant efforts and not require infrastructure change).	610.2
610.2-103-00	Multi-sensor Inter-comparison	Identify and merge like data parameters from different datasets. To select appropriate datasets, and develop and maintain scientifically justified data merging software for chosen parameters.	610.2
610.2-104-00	P-DISC	Develop a precipitation data and information services center. Develop a web-based Data and Information Services Center to serve the needs of the precipitation science community.	610.2
610.2-105-00	ACDISC	Support the Atmospheric Composition Data and Information Services Center (AC-DISC). Provide User Support, documentation, public outreach and data services related to Aura OMI, MLS and HIRDLS data. Preserve and support Atmospheric Composition historic data from UARS, TOMS, etc.	610.2

610.2-106-00	Atmospheric Dynamics DISC	Develop a data and information services center (DISC) focusing on the support of Aqua AIRS data products and services. Integrate AIRS algorithm code into the science data production system at GES DISC. Develop test plans and schedules as needed. Provide support to Near Real Time (NRT) data acquisition, product generation and data distribution. Discuss algorithms and science support with AIRS algorithm providers. Engage the AIRS and atmospheric dynamics user community for data access, data usability and information and services relevant to AIRS and related data products. Develop documentation and tools that facilitate data analysis and visualization, data interoperability and usability. Maintain and enhance Giovanni instances for AIRS data products. Support the transition of appropriate work activities to the Operations Group.	610.2
610.2-107-00	Modeling DISC	This work activity will support and be responsive to scientists and users of Modeling DISC data which include GEOS-5, MERRA, GOCART, ancillary data (e.g. WMO, NOAA/NESDIS, and NOAA/NCEP), and other data as deemed appropriate. The work activity also generally supports the MDISC Web portal, online documentation, data access, data services that facilitate maximum usefulness of the data, and outreach activities that promote the Modeling DISC (MDISC) through which feedback from the user community on the MDISC can be collected and applied.	610.2
610.2-108-00	Mission Support	The Mission Support work activity covers the operations of and operations engineering for all GES DISC systems. This work activity covers monitoring and supporting the nominal data flows and resolving and recovery from anomalies and problems. The work activity also includes development of system utilities and automation to enhance the systems beyond their delivered capabilities. Such system utilities and automation will handle new anomalies and problems after they are encountered. This work activity shall also include a consolidation of all metrics reporting across the GES DISC into this single activity with a goal of reducing effort duplication and establishing consistency of report for all GES DISC activity.	610.2
610.2-109-00	Infrastructure	Perform sustaining engineering and system administration tasks for non-ECS systems. For non-ECS operational systems, perform sustaining engineering and system administration, including on-call support within the terms and scope of the GES DISC's contractually approved On-Call Policy. The contractor will provide support for the maintenance, enhancement, and development of the GES DISC Web site. Support shall extend to all public Web servers maintained by the GES DISC. The term "Web site" includes all such Web servers and machines	610.2
610.2-110-00	Security	Provide security support for the development, test and operational systems at the GES DISC. Ensure all GES DISC systems, infrastructure, people and information maintain all required levels of confidentiality, availability and integrity.	610.2
610.2-111-00	Desktop Support	Provide all aspects of personal computer support for the GES DISC including hardware, software and data backup/restores, and logistic support. This work activity requires on-call support as defined within the terms and scope of the GES DISC on-call policy.	610.2
610.2-112-00	Science Support and Help Desk	Provide overall science data support for the use of GES DISC data holdings (i.e., support not already provided through the individual DISCs). Interact with local science laboratories, as appropriate, to ensure their needs/requirements are being fully met by current and/or proposed GES DISC functionality. Ensure proper coordination with elements of other GES DISC groups, including shorter-term, matrixed activity groups, to optimize resource utilization, identify interdependencies, and facilitate task completion. Provide science and help desk support for Giovanni. Support MODIS, MISR, CERES, TES, Ocean Color and other non-GES-DISC data in Giovanni. Promote Giovanni at conferences and meetings. Provide overall monitoring of performance of work activities by the GES DISC Science Group.	610.2

610.2-113-00	Hydrology DISC	Develop and maintain a Hydrology-Data and Information Services Center (HDISC), focusing on the support of hydrology data products and services available from the GSFC Hydrological Sciences Branch. Engage the soil moisture and hydrology user communities for data product identification, data access, data usability, and information and services relevant to HDISC data products. Develop and maintain documentation and tools that facilitate data analysis and visualization, data interoperability and usability. Engage data providers as well as data users to develop collaborations and partnerships. Maintain and update HDISC web portal as necessary. Maintain and enhance association with the NASA GSFC Hydrological Sciences Branch and their affiliates. Support the transition of appropriate activities to the Operations Group.	610.2
610.2-114-00	Earth Science Data Recovery	Archive the recovered NSSDC NIMBUS II HRIR data at the GES DISC. The result of this work activity represents an expectation of what was on the original tapes - based on JBI recovery performance, and to verify the recovery of the original tape contents.	610.2
610.2-115-00	EP-TOMS	EP-TOMS constitutes a heritage dataset that will be archived at the GES DISC. This work activity is set up to interface with the EP-TOMS team and make it possible to transfer and host the data for distribution here at the GES-DISC. As part of this activity, the following is a list of potential activity that will be mutually developed and executed: - Fetch all information objects from EP-TOMS team - Create DIFs for L1b - Review documentation with PI - Learn about metadata and data - Extraction Metadata - Ingest data into S4PA - Export metadata inventory to ECHO - Make L1b data available via Mirador and ECHO/WIST search interfaces - Supporting ESDIS metrics collection - Design and implement changes to atmospheric web portal - Extract information from documentation to provide a nominal level of support - Provide SA/Ops support for sustaining EP/TOMS services	610.2
610.2-116-00	Technology Evolution	The GES DISC will develop the user interface for Simple Subset Wizard (SSW) and subset Agents. The GES DISC will also specify a schema for capturing dataset information (e.g. subsettable variables) from the participating data centers. The GES DISC will deploy the system on a testbed available for joint testing with participating data centers as well as an operational instance. The GES DISC will also provide metrics on use of the SSW to the EMS system excluding metrics of data transferred via subsetting that will come from the data centers. The GES DISC will facilitate discovery and sub-setting of selected GES DISC datasets through JPL's NIAID system.	610.2
610.2-117-00	Atmospheric CO2 data from Space (ACOS) Project	In collaboration with ACOS Project at NASA JPL, GES DISC will archive and distribute science data products from the ACOS Project. Information will be collected on CO2 and related science data to be supported. Appropriate interfaces will be established at GES DISC to retrieve, ingest and archive science data from the ACOS Project to include data/metadata preparation, system testing and transition to operations for routine ingest. Science data support will be provided for ACOS science data available from GES DISC to include recommendations on metadata and data format specifications, data documentation, web presence, and identification of appropriate data services. Metrics will be collected on data ingest, archive and distribution activities.	610.2
610.2-118-00	External DISC System Support	The objectives of this work activity is to provide consulting support for external DISC users identified by Government work activity monitor to support the setup of an external data systems using GES-DISC tools like S4PA, S4PM, and to communicate with them to better understand challenges and mitigate risks by implementing such an external data system environment. This external data system is to simulates the projected DESDynI Data System-lidar (DDS-L) functionality and performance solutions. Actual configuration and operation is to be performed by the external non SESDA 2 collaborators and the SESDA 2 role is to provide consulting services in support of standing up such an S4P system. Some initial System Administration and system configuration and setup services will be performed by SESDA 2 staff.	610.2

612.0-004-07	HSD Computer System Support	The contractor shall provide computer and network system administration support to the Heliophysics Science Division.	670
612.1-002-05	STEREO Science Center and SDAC Support	Support the STEREO mission Science Center, including processing STEREO beacon data, distribution of STEREO science data, mission science coordination, educational and public outreach, and related software and computer hardware support. Support the Solar Data Analysis Center (SDAC) in the archival and distribution of data from past, present, and future space solar physics missions, including support for the development of the Virtual Solar Observatory.	671.1
612.1-003-06	STEREO COR1 Support	Provide engineering and scientific support to STEREO Coronagraph (COR1), including logistical and travel support to non-civil service visitors to GSFC and travelers attending meetings on STEREO- and Space Weather-related topics.	671
612.1-004-07	LWS/SDO Science Support	Develop data analysis techniques and software tools to support scientific interpretation of observations from the Solar Dynamics Observatory (SDO). Develop and maintain SDO Web portal.	671
612.1-005-08	Solar Mission Science Operations Support	Shall support science and operations for the Extreme Ultraviolet Imaging Telescope (EIT) and the Large Angle Spectrometric Coronagraph (LASCO) instruments on the Solar and Heliospheric Observatory (SOHO).	671.1
612.1-009-12	Solar Flare X-Ray Data Support	The purpose of this work activity is to provide support for obtaining, cataloging, analyzing, archiving, and disseminating various data sets of interest to the members of the Solar Physics Laboratory (Code 671). These data sets include but are not limited to the following: X-ray and gamma-ray data from the Ramaty High Energy Solar Spectroscopic Imager (RHESSI). This will include calibration and test data obtained before launch and all subsequent flight data. Observations complementary to the RHESSI data including those obtained from ground-based observatories and from other spacecraft such as Yohkoh, SOHO, TRACE, CGRO/BATSE, STEREO, Hinode, & Fermi/GBM. All data, software, and analysis results arising from this work will reside in the Solar Data Analysis Center and will be made available to all interested scientists at GSFC and throughout the international scientific community on a non-interference basis. This work activity also supports development of tools to extend the data analysis capability of the Virtual Solar Observatory (VSO), and the development of a new instrument for measuring the polarization of solar flare X-rays in the energy range from ~10 keV to 50 keV.	671
612.1-010-13	LWS Program Support	Provide logistical and science support to LWS Program Office. Support Education and Public Outreach (EPO) activities for Solar Dynamics Observatory (SDO) mission. Support organization of NASA supported meetings by developing registration websites, providing support with travel logistics (hotel, airfare reservations).	670
612.2-002-05	Cassini/CAPS Software Engineering Support	Provide software and system management support for the Cassini CAPS investigation. This work activity provides (1) software development and maintenance of the two systems of Cassini CAPS flight software: Spectrum Analyzer Module (SAM) and Central Processing Unit-2 (CPU2). (2) In close interaction with Government work activity monitor, staff will design, develop and implement application programs to analyze CAPS data. (3) Provide administrative functions on all Sun workstations, PCs and MACs for the CAPS group.	673
612.3-001-04	Geotail Data Support	This WAP provides database maintenance and technical support for the GEOTAIL satellite.	674
612.3-002-05	Heliospheric Studies	Data analysis support for studies of heliospheric structures using data primarily from the IMP 8 and WIND spacecraft. Perform data processing, and simple data analysis tasks in support of branch heliospheric research. Provide programming support for the development of the Virtual Heliospheric and Magnetospheric Observatories (VHO/VMO). Perform simulations of solar neutron environment in inner heliosphere for comparisons with Solar Probe spacecraft observations.	672

612.3-004-07	CCMC Systems and Network Support	Provide network administration; provide system administration support for peripheral, desktop, and Beowulf cluster systems; ensure adherence to Agency and Center security standards for the Community Coordinated Modeling Center (CCMC).	674
612.3-005-08	Electric Fields Science Support	Data analysis and data management of rocket and satellite data. Accurate analysis of space data. Advances in our understanding of the ionosphere and magnetosphere.	674
612.3-006-09	Rocket-Flight Data Support	The contractor will provide support for analysis of data from NASA rocket and suborbital investigations.	674
612.4-001-04	Voyager Software and Data Analysis	This work activity provides support for processing and analysis of cosmic ray data from the Voyager Cosmic Ray Subsystem and the IMP-8 Goddard Medium Energy (GME) experiment.	672
613.1-001-04	GOES and other geosynchronous data processing	The contractor shall participate in the collection, analysis, enhancement and visualization of geosynchronous weather satellite data, particularly from the GOES real time ingest and the internet public data server system.	613.1
613.1-002-01	Global Precipitation Mission Outreach Support	1. The contractor will attend Project Science and other mission-related meetings; taking, editing and distributing meeting minutes. These meetings will be several times per month and some will involve national or international travel. The candidate will support the coordination of activities and logistics for the meetings as well as presentation development as required. The contractor will research and write articles related to instruments, science, operations and other aspects of the GPM mission. These articles will be posted on the mission website and on other selected media and publications, such as Goddard 'Tech Trends'. The contractor will develop content for other GPM outreach materials including both printed material, brochures, fact sheets, lithographs, reference documents, conference exhibits, and web-based content. 2. The contractor will populate and maintain a GPM website content management system. The contractor will work with IT staff to implement and maintain required security procedures. Work will include working with mission staff to determine changes and implement necessary to the homepage, site pages, navigation, information architecture and functionality, and creating web implementations of selected graphics. The contractor will maintain documentation related to the site.	422
613.3-008-03	Long Term Multi-Sensor Ozone Data Record	Support the creation, archiving and release of a long term multi-sensor ozone data record including ozone profile information. Additionally fulfill the requirement of the 'Making Earth System Data Records for Use in Research Environments' (MEaSUREs) program by participating in one or more Earth Science Data System Working Groups (DSWGs)	613.3

613.3-009-02	TOMS History Documentation	<p>The Total Ozone Mapping Spectrometer (TOMS) ozone satellites have been in orbit for almost three decades. Over that time, there have been a number of separate TOMS instruments (Nimbus 7, Meteor-3, ADEOS and EarthProbe), a sequence of retrieval algorithms, and a growing number of data products (total column ozone, Lambertian Equivalent Reflectivity (LER), Aerosol Index (AI), surface UV-B, etc.). While details of various aspects of the TOMS program have been individually published and documented in reports over the years, there has never been a single document that record the details of the instrument, its algorithms and data products. Therefore, at the conclusion of the TOMS series of instruments it is appropriate to provide a complete documentation of the entire TOMS program. This documentation will include brief documentation of the precursors of the TOMS instrument (e.g., the Nimbus 4 BUUV instrument) as well as its successor (the Aura OMI instrument) in order to point out the development of instrumental and algorithmic changes. The project will begin by assembling a fairly complete annotated bibliography of sources, both published and unpublished. A timeline of events will be prepared. Interviews with relevant current and retired staff associated with TOMS will be conducted, and recorded in MP3 electronic format. An outline of the contents will be developed in coordination with staff at Goddard Code 613.3. A prospectus of the documentation, at present assumed to be in book format, will be prepared and circulated to various academic publishers in anticipation of commercial publication and distribution. As drafts of chapters become ready, they will be circulated to relevant Code 613.3 staff and outside cognizant scientists for review. The complete text will be submitted to a team of NASA and outside reviews prior to submission to the publisher. Timetables for intermediate and final deliverables will be developed in coordination with Code 613.3 staff. A CD or DVD of the final text, along with copies of publications (those available in electronic format), a complete annotated bibliography and MP3 files of interviews will be prepared and submitted to the NASA History Division for archiving.</p>	613.3
613.3-010-01	MEASURES Lambertian Equivalent Reflectivity (LER) Task	<p>NASA Goddard Code 613.3 has been funded under the MEASURES program to establish a long-term, contiguous dataset of the Earth's Lambertian Equivalent Reflectivity (LER). The primary satellite instruments considered in this merged LER dataset are the NASA Total Ozone Mapping Spectrometer (TOMS) instruments, the NOAA Solar Backscatter UltraViolet (/2) (SBUV/2) instruments, the joint US/Dutch Ozone Monitoring Instrument (OMI) and the OrbView SeaWiFS instrument. The TOMS, SBUV(/2) and OMI datasets have recently been reprocessed with the most current retrieval algorithm (TOMS version 8), providing a continuous dataset starting with the Nimbus 7 satellite in November 1978 and continuing to the present. While any one of these datasets is insufficient to determine long-term (multi-decadal) trends in observed quantities, the MEASURES project attempts to assemble a robust long-term, multi-satellite LER dataset with sufficient overlap, from which reliable long-term trends may be derived. Details of the geophysical variability of LER over the last three decades is needed as a baseline for climate models that calculate the Earth's energy balance and cloud tendencies. Primary work activities will include: 1) Finalize a draft paper to The Journal of Geophysical Research (Atmospheres) of the diurnal variability of LER as a function of latitude; 2) Determine the causes of differences (including hysteresis) between the Nimbus-7 TOMS LER and subsequent datasets; 3) Determine the applicability of Nimbus-7 TOMS and SBUV datasets in the context of the merged LER dataset; 4) Apply an algorithm to correct the SeaWiFS reflectivities measured at $412 \text{ \AA} \pm 10 \text{ nm}$ to an "equivalent SBUV LER" at $340 \text{ \AA} \pm 1.1 \text{ nm}$ as a function of latitude (and perhaps other parameters); 5) Support the writing and preparation of reports and scientific publications; and 6) Attend regular MEASURES Science Team meetings and other related meetings.</p>	613.3

614.0-001-04	GSFC Visitor Center Support	Primary responsibility is to support the installation and operation of the Goddard Science on a Sphere (SOS) located in the Globe Theatre. This includes designing and conducting visitor programs using newly created and existing data sets. The design effort frequently involves working with NASA Goddard's science community to bring new data sets to SOS. All of these data sets and programs are made available to the larger SOS User Community worldwide, to promote NASA's science mission. The data sets are used to enhance the use of SOS within the outreach community, to facilitate the worldwide growth of SOS. The Solar System on a Sphere (SSOS) project will bring the most up to date science on our solar system to SOS in a compelling outreach story to support formal education outreach. Again our responsibility is to introduce the data sets on SOS. Support beta testing of new releases of SOS system software, and generate suggestions for modifications and enhancements. Perform upgrades and ongoing improvement of the Visitor Center auditoriums, conference, and exhibit spaces.	614
614.0-003-02	Hubble Space Telescope Outreach Support	1. Sustaining Engineering on HST Exhibit at GSFC Visitors Center - The contractor shall maintain the Smithsonian Institute Traveling Exhibit (SITES) Hubble Space Telescope: New Views of the Universe exhibit located in the main exhibit space at the Goddard Visitors Center. The contractor shall provide maintenance and repairs to the exhibit. - The contractor shall be responsible for upgrading the SITES HST exhibit kiosks with upgraded content based on new HST discoveries and images. - The contractor shall modify the exhibit as necessary to network the computers provide additional power, convert MPEG digital video to required formats, etc. as directed by the government work activity monitor. 2. Installation, De-installation, Relocation, and Sustaining Engineering on Traveling HST Exhibit - The contractor shall be responsible for the quarterly (approximate) de-installation, relocation, and re-installation of a second, smaller HST traveling exhibit and performing the same sustaining engineering functions described for it as described in Work Order Item #1 including repair, upgrade, and periodic augmentation with new features. 3. General Support for HST Outreach Activities - The contractor shall provide support for other HST outreach activities including but not limited to: a. the development of new HST exhibits b. webpage content to announce such exhibits c. configuration of equipment to support public talks d. internet hookup to HST public exhibits, etc. - The contractor shall be responsible for purchasing the hardware necessary to perform any maintenance or upgrade, as pre-approved by the government work activity monitor.	614
614.1-002-05	AMSR-E Sea Ice Algorithm Validation and Refinement	Support the development and validation of sea ice algorithms for satellite based microwave data. Validate the AMSR-E sea ice products and refine the corresponding algorithms. Convert Windows-based sea-ice algorithm code to run in a Linux environment.	614.1
614.1-003-06	MODIS Snow Project Support	MODIS snow and ice data products are maintained and enhanced through the use of image processing, and other methods (e.g., maintenance of the website); additionally, ice caps and the Greenland ice sheet are studied in terms of changes over time. The objective of the MODIS snow and ice work is to maintain the data products and perform validation studies and outreach. The overall objective of the ice cap study is to measure changes in ice cap albedo and surface temperature, and to monitor change in elevation of the ice caps in the North Atlantic over the time period of the Landsat TM and MODIS data.	614.1
614.1-004-07	Remote Sensing Studies of Sea Ice	Develop and update satellite data sets regarding sea ice and climate; calculate and plot a variety of statistics based on satellite data; map sea ice and climate variables from satellite data.	614.1

614.1-006-01	Cryosphere Branch Outreach Support	This work activity supports education and outreach activities of the Goddard Cryosphere Branch. Staff be the point of contact for GSFC cryosphere-related education and outreach activities, including the design of overview slides, posters and other outreach material for Goddard management and NASA HQ. Staff will also support design and content development for Branch, IceBridge, and for ICESAT-2 websites. Staff will develop cryosphere-related news stories and alerts and act as liaison to the Public Affairs Office and the Earth Sciences NEWS Team.	614.1
614.1-007-01	Operation IceBridge Science Programming Support	This work activity will provide science programming support for the Operation IceBridge team at NASA Goddard. Operation IceBridge will gather large amounts airborne data from numerous instruments over sea ice and ice sheets. Airborne instruments include Lidars, Radars, high resolution cameras and a gravimeter. Support will include: - Co-locating large geographic datasets collected by a variety of instruments in different formats. - Processing radar data to formats compatible with other earth science data. - Development and implementation of algorithms to be used in data production - Development and implementation of algorithms to be used in data analysis.	614.1
614.1-008-00	AMSR-E Sea Ice and Snow on Sea Ice Support	This work activity provides programming support for the analysis, validation, and utilization of satellite passive microwave snow and sea ice retrievals. Specific work includes: development of new snow and sea ice data products as well as improvement of existing products; retrieval and archiving of snow and sea ice data for use in studies; preparation of graphics for presentations and scientific papers; and documentation of algorithms and datasets.	614.1
614.2-001-04	Physical Oceanography Model Support	This activity provides support to run oceanographic models.	614.2
614.3-002-05	Assessment of NASA Derived Products in IMAAC Models	Support the scientific investigation of the Government work activity monitor on development, calculation and modeling of aerodynamic roughness and other land products for use within hydrologic/hydrodynamic and atmospheric transport modeling 2. Provide analyses results, graphics, and written documentation, and other information for journal publications in a timely manner as requested by the Government work activity monitor.	614.3
614.3-003-01	Development and Implementation of Satellite Precipitation Analysis Algorithm CMORPH to AGRMET and AF	In a joint project participation between the NASA GSFC Hydrological Sciences Branch (HSB), NOAA/NCEP/Climate Prediction Center (CPC) and the Air Force Weather Agency (AFWA), the AFWA has made a request to the NCEP/CPC to provide software and support to implement the Climate Prediction Center Morphing (CMORPH) satellite rainfall estimation processing algorithm on their mainframe computers. The GSFC/HSB branch also receives funding from AFWA towards improving their land surface modeling system known as AGRMET. They are in the process of transitioning the GSFC/HSB land surface modeling system, known as the Land Information System (LIS; http://lis.gsfc.nasa.gov), into their operations. AFWA is keen to implement improvements to their precipitation analysis, and one of the ideas of joint project sponsor (John Eylander) is to implement both CMORPH and QMORPH at AFWA. The process involved will require the transfer of software and support to: obtain HDF orbit file (passive microwave) PMW rainfall, decode these files, map the rainfall to high temporal/spatial resolution, and calibrate the rainfall to TRMM TMI create cloud motion vectors from the CPC global 30 minute maps of merged 4 km IR implement processing of forward and backward in time propagation of PMW rainfall, and the final morphing of the propagated rainfall (CMORPH) The final CMORPH/QMORPH products will be benchmarked against equivalent products running operationally at NCEP/CPC.	614.3

614.4-006-00	LDCM Database Support	The contractor will: - Support Oracle database upgrades and operations including database backups and user SQL queries - Support DocMGR operation, upgrades, and posting new content and user account management - Support PostgreSQL database upgrades, operations including database backups for DocMGR application and others as needed. - Support to catalog the Citadel-derived telemetry database.	614.4
614.5-002-05	OMI SIPS Development and Operations	Provide support for the Science Data Processing System currently used for the Ozone Monitoring Instrument (OMI) Science Investigator-led Processing System (SIPS). The system will also used for processing data from other instruments.	614.5
614.5-006-01	Technical Information Services for Codes 614.4 and 614.5	The Contractor shall provide technical support for on-site Government personal computers and peripherals, UNIX and LINUX workstations and peripherals, and manage information about the local-area-network needs of Code 614 as the rib-manager for these networks. The Contractor shall: A. Install software and peripherals in Apple Macintosh and Intel-based personal computers for supported personnel in Code 614 and others. B. Troubleshoot hardware, software and system problems in personal computers and associated peripherals. C. Effect the "backup and restore" of data on personal computers for supported personnel in Code 614. D. Perform systems administration support of Microsoft Windows and handle specialized computer printing requirements and the updating of software licenses. E. Respond to and identify network problems, and forward them to the appropriate support person or group; and provide network connectivity information to support staff or Codes 614 staff. F. Manage and implement a secure computing environment by monitoring and reporting computer-security problems, installing new and improved software (login banner, virus checkers), and proposing and implementing security practices. G. Provide computer systems administration support for the Code 614 Laboratory Computing Facility. H. Send out regular bulletins to supported users to address problems and critical issues. I. Provide computer systems administration support for supported UNIX and LINUX workstations in Codes 614 and others to include: 1) initial installation of the OS, latest patches, and commercial or free software (without known security problems); 2) installation and configuration of approved hardware; 3) troubleshooting of hardware malfunctions; 4) set-up and configuration of a WEB/FTP server, if the site is hosted on a client machine; and 5) backups for clients using the Computing Facility backup server, or installation and configuration of backup hardware and software for clients providing their own backup systems.	614.5

614.5-007-01	System Administration for Code 614.5 Global Processing Systems	The Contractor shall provide computer systems administration support for the following: 1) the MODIS Adaptive Processing System (MODAPS); 2) the MODIS Team Leader Science Computing Facility (TL-SCF); the Science Investigator-led Processing System (SIPS) for the Ozone Monitoring Instrument (OMI); 4) the Land Product Evaluation and Test Element (PEATE) for the Visible/Infrared Imager/Radiometer Suite (VIIRS) on the National Polar-orbiting Operational Environmental Satellite System (NPOESS) Preparatory Project (NPP); and 5) the PEATE for the NPP Ozone Mapping and Profiler Suite (OMPS). In performing the work, the Contractor shall: A. Manage, log, report, diagnose, and correct observed and reported software, hardware, and network problems. B. Implement, manage, and execute backups of supported computer systems C. Manage and implement a secure computing environment by monitoring and reporting computer security problems, installing new and improved software, and proposing and implementing security practices. D. Perform operating system, compiler, and application software updates to maintain performance and security of the systems. E. Update and maintain information on the configuration of the systems being supported. F. Integrate new computers, peripherals and network switches/routers into the computing facilities listed above. G. Monitor and tune data systems to improve performance and reliability in generating, archiving and distributing global remote sensing science products. H. Develop Perl scripts and web pages as required to support system administration functions or other activities supporting global product generation, distribution or outreach to the community. I. Maintain and enhance the SATE web site used for account management on computer systems managed by the Terrestrial Information Systems Branch. J. Develop and maintain on-line documentation of systems administration procedures.	614.5
614.6-003-07	Remote Sensing of Sea Surface Salinity	Support for research on remote sensing of sea surface salinity. Provide modeling, analysis, and algorithm development for research on remote sensing of sea surface salinity being done to support the Aquarius mission.	614.1
614.6-004-08	Radar Design and Data Analysis	The primary objective is to maintain and upgrade the FORTRAN codes for three operational TRMM Precipitation Radar algorithms designated as 2a21, 3a25, and 3a26. The work includes: examining and displaying the output products, modifying the code for improvements and corrections, and testing alternative versions of the algorithms. A secondary objective is to model and simulate the performance of spaceborne and ground-based weather radars. The focus will be on the dual-frequency precipitation radar (DPR) that has been proposed for the Global Precipitation Mission (GPM). The work includes simulation of spaceborne and ground-based radar measurements from cloud-resolving model data and assessment of various retrieval algorithms from the simulated data.	614.6
660.0-001-04	Spitzer Analysis of Swift BAT AGN	Analyze observations of x-ray selected AGN (from the Swift BAT survey) in the Spitzer archive. Identify the most appropriate candidates for follow-up IR and optical photometry to support current proposal efforts to expand the scope of the science. Reduce data with the goal of publishing a series of papers to follow on the original survey paper published in early 2010.	660
660.1-001-04	RXTE Guest Observer Facility Support	The contractor shall support the RXTE Guest Observer Facility in the areas of software maintenance, data ingest, data archive maintenance & oversight, generation of scientific data products and user support.	660.1
660.1-002-05	Suzaku Guest Observer Facility Support	This work activity includes support for the Guest Observer Facility, including support for project-level reviews.	660.1
660.1-003-06	Swift Science Center Support	Support the Swift Science Center (SSC) with data analysis software, s/w integration & testing, on-orbit instrument calibration, the Guest Investigator Program, and preparation of outreach materials as requested by the cognizant scientists.	660.1

660.1-004-07	XTE SOC S/W	This work activity supports operations and planning activities at the SOF level, and also includes coordination of efforts between the other SOC elements.	660.1
660.2-001-04	ASD Computing & IT Support	The Contractor shall be responsible for the systems management of the ASD computing environment including hardware and software for computers and networks. The Contractor shall provide support defining requirements for the acquisition of new hardware equipment including workstations, peripheral devices such as juke boxes, disks, printers, tape drivers, optical disk drivers, and memory. The Contractor shall provide support in defining requirements for the acquisition of new and updated software including science related software such as IRAF/SDAS/PROS, IDL, and Mongo; system software such as Sun Solaris, Digital UNIX, A.M.A.N.D.A., Utilities; word/text processing software such as TeX/LaTeX and Framemaker; and other software such as Mathematica, NAG, and Object Center. The Contractor shall be responsible for installing and configuring new hardware and software acquired. The Contractor shall be responsible for network management including attaching hosts to the network, troubleshooting system and network related problems. Coordination with the ODIN vendor, when appropriate, is also required. The Contractor shall be responsible for planning, monitoring, and implementing system and network security practices and shall be responsible for system management including the maintenance of hardware and software inventory lists. The Contractor shall be responsible for implementing directives from the GSFC Chief Information Officer including mandatory security issues, testing, email and system logging regulations. The Contractor shall be responsible for providing after hours, holiday, and weekend support for mission critical activities within the ASD computing environment. The Contractor shall be responsible for providing optimal and standardized user workstation configurations of files, applications, and file system structures as well as user support. Report detailing activities performed during the previous month.	660.2
661.0-002-05	Fermi LAT Team Support	Perform systems engineering and software configuration management for the Fermi LAT instrument team.	661
661.0-003-06	Fermi Science Support Center	Support the development, validation and testing of operations and analysis software pertinent to the Fermi mission.	661
661.0-005-08	HEASARC E&PO Support	The contractor will lead workshops for middle and high school teachers on topics relevant to the HEASARC and to scientific results from the Suzaku and Astro-H missions, including the origin of the elements, the big bang, and the life cycles of stars. The contractor shall also work with ASD outreach personnel to prepare lesson plans and other E/PO materials as needed.	660.1
662.0-001-04	HEASARC Database and Web Support	This work activity provides support for the HEASARCs database and archive and ensures that they are fully available to the science and public communities. The contractor shall maintain and ensure quality of HEASARC data holdings; develop and maintain software systems for access to HEASARC data; incorporate new missions and datasets into the HEASARC; support collaborations with other NASA and non-NASA archives; support science research with HEASARC resources.	662
662.0-002-05	HEASARC Software Support	Contractor shall support all aspects of general (non mission-specific) HEASARC data analysis software, including development, maintenance, configuration management and public releases.	662
662.0-004-07	HEASARC Mission-specific Software Support	This work activity consists of development, testing, maintenance and support for mission-specific HEASARC data analysis software.	662

662.0-005-08	Instrument Development for X-Ray Polarimetry and Diffractometry	The contractor will supply mechanical and engineering design and fabrication services to several X-ray Astrophysics R&D activities. The Vendor may supply laboratory infrastructure maintenance and upgrades, and may participate in instrument characterization and testing. All work under this contract will support X-ray Astrophysics Laboratory instrument development. The contractor shall provide the facilities, personnel, services, tools, and equipment necessary to support instrument prototyping and development activities. Fabrication will be primarily at the Vendor facility. Acceptance, integration, test, and characterization will be primarily at GSFC facilities. Vendor may participate in integration and test activities using Government Furnished Equipment and Facilities.	662
662.0-006-09	X-Ray Microcalorimeter Development Support	The contractor will provide support for developing advanced high resolution x-ray microcalorimeters (both silicon-based and superconductor-based) and their near-term applications (laboratory astrophysics and sub-orbital observations).	662
662.0-008-01	Astro-H/SXS Detector Assembly Subsystem Support	The contractor shall support the development of the Astro-H/SXS detector assembly, a subsystem that interfaces the cryogenic x-ray calorimeter detectors to the rest of the SXS instrument electrically, mechanically, and thermally. This shall include the production of breadboard components and support for the production and qualification of an engineering model unit, a flight unit and a flight spare unit.	662
665.0-001-04	LAMBDA Data Archive	The contractor shall provide support developing and maintaining the Legacy Archive for Microwave Background Data and Analysis (LAMBDA) data center and its web site. This includes development of web site and archive features and tools, selecting, preparing, ingesting, and processing of WMAP and other CMB data sets, and outreach and logistical support.	665
665.0-002-05	WMAP Science Data Support	The contractor shall provide support in developing, writing, and documenting the WMAP science data processing software. This includes developing algorithms for reading and quality-checking the raw, time-ordered science and ancillary data, and in supporting the development of software to enable map-making, systematic error analysis, and science data analysis, including removal of the Galactic foreground. The contractor shall also support the software activities of the WMAP Mission Operations group as required. Computer systems support for the WMAP project is also included.	665
665.0-003-06	Cosmic Microwave Background (CMB) Observations and Instrumentation	Support development, testing, and deployment of instruments to measure the cosmic microwave background.	665
665.0-005-08	FIR/Submillimeter Interferometer Design Studies	The contractor shall support science requirement specification for the Single Aperture Far-IR (SAFIR) telescope, the Space Infrared Interferometric Telescope (SPIRIT), and the Submillimeter Probe of the Evolution of Cosmic Structure (SPECS). The contractor will collaborate with members of the SAFIR, SPIRIT, and SPECS mission concept study teams to perform these functions. The contractor will also provide support for development of software for the Widefield Imaging Interferometer Testbed (WIIT).	665
665.0-007-10	IR Instrument Development	The purpose of this Work Activity is to support the development of IR, far-IR, and submillimeter instruments, and the technology and infrastructure that are required for those instruments. The effort supplied under this Activity includes technology development, design, fabrication, testing, calibration and characterization, field and flight operations, as well as scientific data analysis and modeling. Administrative/logistical, documentation, and organizational support are also included.	665

665.0-008-11	GALEX Guest Investigator (GI) Support	GALEX is a NASA UV imaging and spectroscopic survey mission that will study star formation and its evolution over the redshift range 0-2.5. GALEX Guest Investigators (GIs) are awarded observing time and/or funding to carry out scientific investigations using GALEX data. This work activity provides logistic and technical support to the GALEX Project Scientist in operating the GI program.	665
665.0-010-13	Multivariate Galaxy Luminosity	The purpose of the activity is to support development and studies of optical-to-infrared luminosity functions of galaxies. Photometry and spectroscopy of galaxies from several on-line databases will be used to perform principal component analysis to determine the most relevant dimensions of the dataset. This will be followed by a determination of the dependence of the optical and IR colors on luminosity.	665
665.0-011-03	Long Wavelength Detector Development	Provide development support for components, instrumentation, and equipment for test, fabrication, and assembly of long wavelength detectors for astrophysical research.	665
665.0-012-02	Low Noise Electronics for LISA Metrology	The Laser Interferometer Space Antenna (LISA) is a NASA/ESA planned gravitational wave sensor. To achieve the required high sensitivity, LISA must employ very low noise infrared photoreceivers to allow the infrared laser metrology system signals to be readout to high precision. For this work activity, the contractor will provide support for the assembly, design, evaluation and electronic testing and analysis of prototype photoreceivers and voltage references and associated circuitry to achieve the LISA requirements. The required photoreceivers will be assembled in both a single channel version and a quadrant sensor configuration and must have a wide bandwidth (greater than 20 MHz), high linearity and very stable phase shift characteristics over the entire useful bandwidth.	663
665.0-016-01	Origins Detector Technology Support	The purpose of this Work Activity is to support the development of detector technologies for far-infrared and millimeter-wavelength instruments such as PIPER and GISMO. The effort supplied under this activity includes technology development, design, programming, testing, calibration and characterization, field and flight operations, as well as scientific data analysis and modeling. In addition, some administrative, logistical, documentation, and organizational support will be provided.	665
665.0-017-01	CLASS Detector Testing Support	GSFC is currently developing detectors for the CLASS (Cosmology Large Angular Scale Surveyor) instrument in collaboration with Johns Hopkins University. The Observational Cosmology Laboratory is working closely with the Detector Development laboratory to build and deliver these detectors. The purpose of this work activity is to support a lab technician to play a major role in testing detector parts. The contractor will be responsible for designing/fabricating laboratory test setups in collaboration with senior personnel and operating cryogenic vacuum systems and reporting the results of the detector tests in a timely manner. General experimental skills are also required. These include, but are not limited to experience with electronics, data acquisition, mechanical design, and cryogenics.	665
665.0-018-00	JWST Science Analysis Support	This work activity covers science analysis support for the James Webb Space Telescope, including analysis of contrast data for the NIRSpec microshutters flight arrays.	665
667.0-003-06	Wide Field Camera 3 (WFC3) Support	The purpose of this activity is to provide support to the Instrument Scientist for the Wide Field Camera 3 Project for the Hubble Space Telescope. The principal concentration of work is in the GSFC Detector Characterization Laboratory (DCL), where tests of candidate detectors are carried out and the resulting data are analyzed. Support is also required for instrument-level testing and calibration support and analysis.	667
667.0-005-08	UV/Visible Photocathodes	Support development of multi-wavelength high Quantum Efficiency (QE) photocathodes.	667

667.0-008-11	STIS Science Support	The contractor shall support analysis of NASA observations, primarily from the Hubble Space Telescope Imaging Spectrograph (STIS) and Cosmic Origins Spectrograph (COS), as well as related ground-based observations. Work activities will include measurements, modeling, and database management.	667
670.0-001-03	Heliospheric Science Story Development	Position Description: Science Writer/Web Editor Specific Job Duties: Research and write for NASA Public Affairs 15-20 media products (Press Releases, Web Features, Media Advisories, fact sheets, podcasts) annually on cutting-edge solar science research, as assigned. Capture, post and format image rich stories for the web. Conduct assessments of the news value of selected journal articles and meeting presentations; recommend appropriate Public Affairs products based on this evaluation. Respond to inquiries from journalists for interviews and images related to media products created by the team.	130
670.0-002-03	SPDF Heliophysics Data Services	The contractor shall support the Space Physics Data Facility (SPDF) project as it provides unique correlative multi-mission and cross-disciplinary value-added heliophysics data services and special products. SPDF is responsible to ensure maximal clarity in the meaning and appropriate use of data; to provide all data services robustly, with high performance, unique functionality and taking maximum advantage of automation and distributed capabilities in the broader community; to engage on a continuing basis with the external science community, to establish science data needs against SPDF's capabilities and set future SPDF priorities; and to manage all aspects of SPDF to satisfy NASA and community requirements for system security, the integrity and preservation of data and continuity of data services.	670
670.0-003-03	VITMO Support	The contractor shall support the Virtual Ionospheric-Mesospheric-Thermospheric Observatory (VITMO). VITMO will provide ITM research scientists with integrated access to distributed and diverse scientific data holdings, models and tools, with the specific objective to allow ITM processes to be studied more completely as systems. VITMO will be a common, extendable portal to ITM data, models, and tools, focusing to data sources including TIMED, AIM, C/NOFS, UARS, SuperDARN, CDAWeb, SSCWeb, and ModelWeb, and coupled with a strong understanding of ITM community needs. Primary VITMO development is a joint effort of JHU APL and NASA Goddard.	670
670.0-004-01	Solar Science Outreach	Develop and maintain 3D Sun iPhone app that pushes STEREO solar images to users. Extend app to include support for iPad and delivery of SDO images. Research, develop, and consult on Solar Physics articles. Develop Heliophysics Augmentation program that subscribes students and teachers to a text messaging system that provides alerts and updates on news and events relating to the Sun and associated Heliophysics activities. Extend program to support SDO and Journey to the Stars outreach activities.	670
670.0-007-00	HSD Laboratory Management Support	Shall support the Heliophysics Science Division as Laboratory as follows: * To be a liaison between government, contractor and project personnel. * To utilize the Laboratory Manager's Handbook, and other resources, to identify GSFC/NASA requirements that relate to a specific laboratory. * To promote compliance by parties that utilize the LM's laboratory space(s). * To maintain specific laboratory records. * To ensure that laboratory personnel obtain the necessary, laboratory specific, training and certifications. * To ensure that equipment and test facilities that are necessary for the operation of the lab are maintained. This includes any calibration and/or certification that may be required. Equipment that is not presently required may be placed in a standby, calibrate before use, status. * To provide support with the performance of laboratory audits.	670
671.0-001-01	Support for Solar Imagers and Spectrograph Systems	The contractor shall support the specification, design, fabrication, integration, and testing of detector systems for space-borne solar imagers and spectrographs, including the SPICE instrument on Solar Orbiter and the EUNIS sounding rocket instrument.	671

671.0-002-01	Support for Solar Orbiter SPICE Instrument	Provide mechanical and opto-mechanical design support for the SPICE (Spectral Imaging of the Coronal Environment) instrument selected to fly aboard the joint ESA/NASA Solar Orbiter mission scheduled for launch in 2017. Support development of SPICE instrument in the following areas: (1) Investigate the current slit mechanism design concept to reduce risk. Investigate mechanism volume, method for moving the slits into the field of view, consideration for thermal demands, actuator and bearing selection, etc. (2) Design concepts/options that will reduce programmatic risks and better define tall poles and any potential slit mechanism issues. (3) support Phase A design and development of SPICE Intensifier by Sensor Sciences, LLC. (4) Design the setup for testing and calibrating the SPICE detector. Identify equipment and facilities available to carry out the test, and what needs to be acquired. (5) Oversee the preparation for performing the test. Carry out the test and calibration of the SPICE detector. Work on the engineering and flight models will be carried out in subsequent years.	671
671.0-003-00	Solar Dynamics Observatory EPO Support	Shall support Education and Public Outreach (EPO) activities for the Living With a Star (LWS) Program and Solar Dynamics Observatory (SDO) mission.	671
672.0-001-02	VEPO IHY-IPY Support Services	The Virtual Energetic Particle Observatory (VEPO) project of Goddard's Heliospheric Physics Laboratory is a continuing NASA-supported initiative to develop automated capabilities for discovery and access of heliospheric energetic particle and supporting ancillary data in the U.S. and international heliophysics data environment. VEPO improves access and usability of selected Heliospheric Network and sub-orbital NASA heliospheric energetic particle data sets as an ongoing development effort within the evolving heliophysics virtual observatory program of NASA. The VEPO team is organized to operate as a focus group within the broader heliospheric science scope of the Virtual Heliospheric Observatory (VHO) and is working to support user queries for VEPO-relevant data products through existing interfaces and evolving middleware of VHO. This approach enables complex queries for distributed data types and key parameters registered with VHO. Priorities in the third and final year of the VEPO project, as originally proposed, are to complete registration of metadata descriptions of selected VEPO-related data products from the Helios 1&2, Voyager 1&2, Ulysses, SOHO, and Wind missions, and to register new solar energetic particle from the two Stereo spacecraft. Registry of ground-based neutron monitor data products will also be extended. These descriptions must conform to evolving standards of the Space Physics Archive Search and Extract (SPASE) standard lexicon in XML format to enable data queries and interoperability with distributed U.S. and international data repositories and other virtual observatories. Standards definition and refinement for the descriptive metadata is undertaken in collaboration with the extended VEPO team at Goddard, Applied Physics Laboratory Johns Hopkins Laboratory, University of New Hampshire, Fundamental Technologies LLC of Lawrence, Kansas, and the Ulysses Data System (ESTEC-ESA, the Netherlands) through interaction with open community forums for SPASE and VxO development. Although this initial phase of the VEPO project does not support development of query capabilities independent of VHO, the project will implement and maintain a separate web interface describing the VEPO data environment and linking to VHO query services. Support of the Government work activity monitor's LunaSOX (Lunar Surface Origins Exploration) Focus Group project to extend the registry of VHO to plasma and related magnetic field data from the Apollo-era constellation of lunar surface, lunar orbital, and geospace solar wind instruments and to support improved modeling of solar wind interactions with the Moon. This project is implementing a hybrid kinetic computational model for the lunar plasma interactions as calibrated to upstream solar wind monitor data and to surface and lunar orbital measurements from the Apollo missions. Available data will be conditioned in ASCII format for	672

672.0-002-01	Heliospheric Education with CUNY	This project involves CUNY working with GSFC Heliophysics Science Division to provide college/university faculty professional development, curriculum enhancement and academic program development, and undergraduate student research on Heliophysics sciences. Goddard colleagues will also provide support to high school teacher professional development so that they can develop Heliophysics enrichment activities and research for their students.	672
672.0-003-01	iPhone Viewer for Space Weather	To create and to publish via on-line stores iPhone and Droid applications, i.e. apps, to meet the following objectives: * To provide a new and compelling method for K-12 students and educators to access information about NASA missions and NASA datasets. * To extend the activities found in the Space Weather Action Center and other classroom based activities.	672
672.0-005-00	Space Weather Living History	This project will explore and share the breakthrough new science and captivating stories of space environments and space weather by interviewing space physics pioneers and leaders active from the International Geophysical Year (IGY) to the present. The multi-mission project will capture, document and preserve the living history of space weather utilizing original historical materials (primary sources). The objectives are to tell the stories of those involved in interactive new media to address important STEM needs, inspire the next generation of explorers, and feature women as role models.	671
673.0-001-02	Lunar Potential Determination Using Apollo-Era Data and Modern Measurements and Models	This work activity is intended to support a detailed analysis of ALSEP/SIDE (Apollo Lunar Surface Experiment Package / Suprathermal Ion Detector Experiment) data using modern measurements and models. The Project Scientist for the Apollo 12, 14 and 15 investigations will lead the effort to identify appropriate ALSEP/SIDE time periods for both TID (Total Ion Detector) and MA (Mass Analyzer) and generate measured surface potentials.	673
673.0-002-02	VWO Science Support Services	The Virtual Wave Observatory (VWO) project is one of the NASA SMD Heliophysics VxOs with the goal to make all Heliophysics plasma wave and radiation data searchable, understandable and usable by the Heliophysics community. To this end, the VWO will provide uniform and robust access to distributed space plasma wave and radiation data, metadata, and services for the wave-oriented Heliophysics research community. VWO will extend Heliophysics Virtual Observatories into wave-specific datasets that span most Heliophysics domains: solar wind, interplanetary space, terrestrial magnetosphere and ionosphere, and planetary magnetospheres.	673
673.0-004-01	TOPIST ISIS Data Processing	To support several of the activities proposed on the ROSES2008 Geospace 4-yr award entitled "Establishing links between solar-wind and topside-ionospheric parameters."	673
674.0-003-01	Electric Field Sounding Rocket Support	Provide support for the development, design, construction, testing, and deployment of sounding rocket instrumentation for measuring characteristics of electromagnetic fields near the Earth.	674
674.0-004-00	MMS EPO Support	Provide Education and Public Outreach (EPO) support for the Magnetospheric Multiscale (MMS) mission. Responsibilities include the planning, coordination, implementation, and management of the MMS mission's outreach activities to meet NASA's EPO goals and guidelines.	674
690.0-001-04	SSED Property Database Support	Will provide tracking of all equipment assigned to personnel in Codes 691 and 693. Will maintain the chemical lab inventories for Code 690 and regularly inspect the eyewash fixtures.	690
690.0-003-06	SSED Systems & Network Support	Solar System Exploration Division (SSED) System and Network Support (Division system administrators). Provide desktop, Division server, and peripheral system administration support and network administration for the Solar System Exploration Division. Ensure adherence to Agency and Center security standards.	699

690.0-004-01	Solar System Exploration Story Development	Develop Goddard Space Flight Center Planetary science stories. Write press releases and web articles based on Goddard Planetary science mission activities, research and development. Prepare content for NASA portal websites and the Planetary Division website. Specifically: -- Research science results and initiatives through journals, abstracts, lectures, and in-person interviews of Planetary Division scientists. -- Review packages submitted to export control for approval to determine "news worthy" items that should be pursued further. These would primarily be related to publications, and presentations by Divisions scientists. -- Write news releases, media tips, media advisories, web features and internal newsletter articles. -- Propose and support press conferences and news campaigns. -- Prepare reports on planetary science news coverage and on publishing of scientific results. -- Inform journalists of NASA news stories -- directly and through distribution outlets (Eurekalert, etc.) -- Gather content for NASA portal pages and Planetary Division website. -- Inform and work with the Goddard Public Affairs Office, specifically PAO Lead for Planetary Division, on all stories being worked. -- Work with PAO Lead and Planetary PAO Liaison to determine prioritization of stories and to solidify accompanying visualizations and animations, when necessary. -- Attend weekly Goddard News Chief Media Tag-up meeting. -- Attend bi-weekly Planetary Public Affairs Team meeting. -- Collaborate with NASA TV producers and Scientific Visualization Studio on imagery and animations. -- Write Code 690 Annual Report with content input from lab chiefs and Solar System Exploration upper	690
690.1-002-02	International Standards Development	Support NSSDC in international standards development and related NASA-NARA research. Specifically, this includes research described in the NASA/NARA Interagency Agreement and recent FY08 proposal to NARA. This involves communications with NASA, national, and international participants in the development of the Producer-Archive Interface Specification standard, tutorial, and related software. The support will be provided from a location remote from both contractor and Federal facilities, except for an occasional meeting when necessary. Provide reviews and responses to issues raised; provide suggested updates to draft standard and tutorial documents; provide updated requirements for supporting software. Provide additional digital preservation research support to NSSDC as requested and funded.	690.1
690.1-003-02	NSSDC Ingest	NSSDC is a multidiscipline archive supporting the permanent archiving of NASA's Space Science data and related metadata. Specifically, this covers astrophysics, solar and space plasma physics, and lunar and planetary science data. NSSDC acquires data and metadata from NASA's active archives, and, when mediated by these active archives, directly from space flight missions and individual principal investigators. The two main customers are the Planetary Data System and the Space Physics Data Facility. The contractor will design specific modes of data ingest applicable to these two cases; namely, data bricks for PDS and electronic for SPDF. NSSDC manages data both in on-line modes and in off-line stores of tapes, film, and other media, and it disseminates data worldwide. As NSSDC acquires scientific data, a major requirement is to acquire sufficient documentation to ensure that the scientific data is independently understandable, preservable, and usable into the indefinite future. The details of how this is accomplished will evolve and typically varies among the disciplines. This work activity focuses on data ingest, specifically the development of software and procedures that support the ingest and archiving of data within the NSSDC. The contractor is expected to manage the NSSDC archives to ensure that data are received with sufficient supporting materials and that data and Preservation Description Information	690.1

690.1-004-02	NSSDC Data Management	<p>NSSDC is a multidiscipline archive supporting the permanent archiving of NASA's Space Science data and related metadata. Specifically, this covers astrophysics, solar and space plasma physics, and lunar and planetary science data. NSSDC acquires data and metadata from NASA's active archives, and, when mediated by these active archives, directly from space flight missions and individual principal investigators. NSSDC manages data both in on-line modes and in off-line stores of tapes, film, and other media, and it disseminates data worldwide. As NSSDC acquires scientific data, a major requirement is to acquire sufficient documentation to ensure that the scientific data is independently understandable, preservable, and usable into the indefinite future. The details of how this is accomplished will evolve and typically varies among the disciplines. This work activity focuses on data management, specifically the development of software and procedures that support the tracking and archiving of metadata within the NSSDC. The contractor is expected to ensure that data are received with sufficient supporting materials and that both data and metadata archived so as to be reliably findable, retrievable, and usable into the indefinite future. The main focus of this work activity is to enable the Space Science Virtual Observatories and Resident Archives through implementation of the SPASE interlingua. Contractor will lead the NSSDC's participation in the Space Physics Archive Search and Extract (SPASE) as follows: a) provide support in the evolution of the SPASE Data Model. b) support the development of SPASE technical software and/or mapping or translating metadata as needed to make NSSDC data holdings available to users of the SPASE system. c) providing support to host the SPASE website</p>	690.1
690.1-005-02	NSSDC Archival Storage	<p>NSSDC is a multidiscipline archive supporting the permanent archiving of NASA's Space Science data and related metadata. Specifically, this covers astrophysics, solar and space plasma physics, and lunar and planetary science data. NSSDC acquires data and metadata from NASA's active archives, and, when mediated by these active archives, directly from space flight missions and individual principal investigators. NSSDC manages data both in on-line modes and in off-line stores of tapes, film, and other media, and it disseminates data worldwide. As NSSDC acquires scientific data, a major requirement is to acquire sufficient documentation to ensure that the scientific data is independently understandable, preservable, and usable into the indefinite future. The details of how this is accomplished will evolve and typically varies among the disciplines. The work activity includes the activities needed to support the normal operations of the NSSDC, i.e. storing and managing the media collections which comprise the archive, both on-site at GSFC and off-site storage facilities, updating the databases with new and updated metadata, managing NSSDC related documentation, and monitoring, doing and reporting data ingest. Data ingest will be packaged as Archival Information Packages (AIPs), the key component for NSSDC ingest and preservation functions. Some data will be packages in AIPs when received, other datasets will be stored on their transfer media for an interim time until they can also be made into AIPs.</p>	690.1

690.1-006-02	NSSDC Interactions	NSSDC is a multidiscipline archive supporting the permanent archiving of NASA's Space Science data and related metadata. Specifically, this covers astrophysics, solar and space plasma physics, and lunar and planetary science data. NSSDC acquires data and metadata from NASA's active archives, and, when mediated by these active archives, directly from space flight missions and individual principal investigators. NSSDC manages data both in on-line modes and in off-line stores of tapes, film, and other media, and it disseminates data worldwide. It is important that the curation staff interact with the mission or data providers; a monthly summary of those interactions will be required. In addition, the curation staff must work with the government lead to negotiate any impending data delivery or distribution. As NSSDC acquires scientific data, a major requirement is to acquire sufficient documentation to ensure that the scientific data is independently understandable, preservable, and usable into the indefinite future. The details of how this is accomplished will evolve and typically vary among the disciplines. In support of the goals above this work activity provides support to NSSDC for areas which reach across the breadth of NSSDC operations, i.e. those affecting the Overview of the project, and which are enumerated in the requirements below.	690.1
690.1-007-02	Planetary Data System Management Support	The Solar System Data Services Office has been assigned the responsibility by Headquarters to supply Program Management services for the Planetary Data System, support staff for the PDS Lunar Data Node, infrastructure for the restoration of Apollo data, and various educational programs such as Solar System on a Sphere and other duties as assigned. Requires occasional travel to appropriate science or project meetings, to present activities, demonstrate capabilities, or to interact with users and potential data providers.	
690.1-008-02	LACE Restoration	The contractor is responsible for supporting the restoration of Apollo 17 Lunar Atmosphere Composition Experiment (LACE) data sets, the conversion of the data to a modern data format, and the packaging of the data for submission to the Planetary Data System (PDS). Occasional travel is required to appropriate science conferences and workshops to present activities, to support data investigators reviewers who attend meetings and lunar data peer review panels, or to interact with users and potential data reviewers	690.1
690.1-009-02	Lunar Data Node	The contractor is responsible for supporting the restoration of Apollo data sets of relevance to the new lunar exploration program. Travel Requirements: Occasional travel to support acquisition of lunar data from other archives and data providers, to support data reviewers who attend lunar data peer review panels, to promote outreach at conferences and workshops, or to interact with users and potential data providers may be required.	690.1

690.1-010-02	Sun Earth Day	<p>The Sun-Earth Connection Education Forum (SECEF) promotes NASA's Heliophysics science results on a national level for the purposes of education in the classroom and for the knowledge and edification of the general public. The SECEF group at NASA/GSFC and a group at the University of California Berkeley work together to seek and utilize high leverage opportunities to benefit NASA's education and public outreach through the work being done by NASA-supported Sun-Earth Connection missions, programs, and scientists. SECEF supports NASA Hq Science Mission Directorate in the area of Heliophysics education and outreach. The main responsibility is coordination and communication with the Heliophysics missions and scientists and the education and outreach efforts that they do. This assures a unified approach to the subject, prevention of redundant efforts, focus on high priority topics, identification of important gaps in the education effort, reporting of results of the education and outreach efforts, coordination with the general NASA Education and Public Affairs Offices, etc. SECEF also organizes and operates education programs such as Sun-Earth Day, the Heliophysics aspect of the International Year of Astronomy, Space Weather Action Centers, and other programs for which funding has been received through NASA competitive grant programs. These are often done in partnership with other organizations.</p>	690.1
690.1-013-01	Challenger Space Weather	<p>The Space Weather Action Center Team will train CLCs in the use of green screen technology, SWAC, and space weather science content. It is anticipated that each participating Challenger Learning Center will agree to the following: * Implement space weather into their Challenger Learning Center Missions * Participate in training to learn the content and the use of SWAC * Become proficient in the SWAC technology: green screen, space weather content, podcasts * Provide Professional Development programs for teachers * Encourage their teachers to complete audio and/or video Space Weather reports on a regular (daily/weekly) basis to http://sunearthday.nasa.gov/swac Once the Challenger Center Space Weather Team (CCSWT) is incorporated into the simulated space flight missions, it will be sustained and upgraded by the CCSSE system just as the existing teams are currently supported. The SWAC Website http://sunearthday.nasa.gov/swac and the Space Weather Media Viewer will be maintained and updated under the auspices of the SWAC Team.</p>	690.1
691.0-001-01	Scientific and Administrative Support for the Messenger Mission	<p>The contractor shall provide both scientific and administrative support for the Astrochemistry Laboratory in the Solar System Exploration Division at NASA/ Goddard Space Flight Center. The statements of work for each of these areas of support are listed separately in this document, with the requirements for the scientific work and for the administrative support as described below. SCIENTIFIC SUPPORT: The contractor shall support the development of theoretical modeling for the x-ray and gamma ray emissions from planetary surfaces, support the calibration of space flight instrument systems, and develop scientific data analysis and interpretation software. In addition, the Contractor shall support incidental activities necessary for maintaining laboratory operations. These activities will include, but are not limited to setting up experiments, analyzing data, recommending new laboratory test equipment, performing unique analysis in support of upcoming proposals, and supporting the laboratories' education and technology development programs. The programs being supported under this effort are the MESSENGER mission to Mercury and neutron-gamma ray planetary science instrumentation development through the NASA/ROSES program. ADMINISTRATIVE SUPPORT: The Contractor shall also provide a variety of support services to NASA/GSFC's Astrochemistry Laboratory which includes both science managers, such as the Lab Chief and other group leaders and other members of the science staff.</p>	691

693.0-001-04	Cassini CIRS	Provide support to the Cassini CIRS Science and Operations Team with IT support, command file generation, uplink sequence verification and analysis, and data (both science and housekeeping) retrieval, validation, and archiving, instrument housekeeping data analysis, and database management. Provide mechanical engineering design support for the CIRS-lite instrument.	693
695.0-001-04	Ulysses URAP Support	Ensure that the computer environments for processing and serving the data from the three missions is routinely operational. Develop and maintain data processing and analysis software for the three missions. Process data for the three missions and ensure that they are routinely available to the user community. Support archiving of data from the three missions. Analyze data and present results as part of the instrument teams for the three missions. Support web sites for the three missions for scientific use and for outreach.	695
695.0-002-05	Planetary Missions Support	Support SSED laboratory magnetic field investigations, research activity in the general area of planetary magnetic fields, magnetic measurements, and document preparation.	695
695.0-003-03	Planetary Missions Mechanical Engineering Support	The work activity will provide Mechanical Engineering support to the JUNO FluxGate Magnetometer (FGM) team. This support will include interacting with the GSFC personnel, the JUNO project at JPL, the spacecraft vendor Lockheed Martin (LM) in Denver, the Advance Stellar Compass (ASC) vendor Technical University of Denmark (DTU) in Denmark, and other commercial companies.	695
699.0-001-04	Mass Spectrometer Instrument Development Support	This work activity provides the engineering and technician support to design, build and test flight mass spectrometers and related components and to provide post-launch and mission support for the mass spectrometer instruments.	699
699.0-003-03	Laser Lab Support	Support for development of miniaturized instrumentation for future NASA astrobiology investigations. This includes, but is not limited to fabrication and assembly of mass spectrometer components and performance testing of mass spectrometer breadboards.	699
699.0-004-01	LADEE	This work activity will provide engineering and technical support to design, build and test of instrumentation to support the Lunar Atmosphere and Dust Environment Explorer (LADEE), and to provide post-launch and mission support for the instruments.	699
699.0-005-01	MAVEN	This work activity provides the engineering and technician support to design, build and test flight instrumentation and related components, and to provide post-launch and mission support for the Mars Atmosphere and Volatile Evolution (MAVEN).	699
699.0-006-01	Volatile Analysis by Pyrolysis of Regolith (VAPoR)	This work activity provides the engineering and technician support to design, build and test flight instrumentation and related components, and to provide post-launch and mission support for the Volatile Analysis by Pyrolysis of Regolith (VAPoR).	699
699.0-007-01	Cassini (INMS & GCMS)	This work activity will provide engineering and technical support to design, build and test of instrumentation to support the Cassini Mission and to provide post-launch and mission support for the instruments.	699

699.0-008-00	Miniature Laser Mass Spectrometer Development	<p>Shall design, oversee fabrication, evaluate, and direct the successful execution of critical scientific objectives for the Miniature Laser Mass Spectrometer with Reversible Ion Polarity prototype development. Work Activity List: T1. Development of Breadboard RP-TOF-MS T1a) SIMION simulations T1b) SolidWorks design and modeling of RP-TOF-MS T1c) Design and Integration with laser subsystem T1d) Design and Integration with vacuum subsystem (Creare, Inc.) T1e) Design and Integration with sample handling subsystem Shall lead the effort in design of hardware for fabrication of prototype RP-TOF-MS, as well as assume responsibility for integration of laser, vacuum, and sample handling subsystems. T2. Functional Testing of Breadboard RP-TOF-MS T2a) Testing of RP-TOF-MS with laser subsystem T2b) Testing of RP-TOF-MS with vacuum subsystem (Creare, Inc.) T2c) Testing of RP-TOF-MS with sample handling subsystem Shall assume responsibility for end-to-end testing of subsystems and fully integrated RP-TOF-MS system. T3. Optimization of RP-TOF Shall assume responsibility for optimization of RP-TOF-MS under Martian conditions including temperature, pressure, and constraints imposed by mission operational concepts. T4. Shall participate in discussions, meetings, documentation, and presentations Schedule: 1. Development of Breadboard RP-TOF-MS 1a) SIMION simulations Q3 Q4 1b) SolidWorks design Q3 Q4 1c) Integration with laser subsystem Q3 Q4 1d) Vacuum subsystem (Creare, Inc.) Q3 Q4 1e) Sample handling subsystem Q3 Q4 2. Functional Testing of Breadboard RP-TOF-MS 2a) Testing with laser subsystem Q1 Q2 Q3 2b) Testing with vacuum subsystem (Creare, Inc.) Q1 Q2 Q3 2c) Testing with sample handling subsystem Q1 Q2 Q3 New Requirements: Shall support PI to design, fabricate, evaluate, and direct the successful execution of critical scientific objectives for Laser Mass Spectrometer for Nuclear Forensics prototype development. * Shall lead effort in design of hardware for fabrication of prototype Nuke-MS as well as assume responsibility for integration of laser, vacuum, electronics, and sample handling subsystems. * Shall assume responsibility for end-to-end testing of subsystems and fully integrated Nuke-MS system. * Shall assume responsibility for optimization of Nuke-MS under field conditions including constraints imposed by mission operational concepts. Work Activity List: N1. Development of Breadboard Nuke-MS N1a) Design and modeling of Nuke-MS N1b) Assembly and Integration with laser, vacuum, electronics, and sample handling subsystems N2. Functional Testing of Breadboard Nuke-MS C&E Research will assume responsibility for end-to-end testing of all subsystems and fully integrated Nuke-MS system. N3. Optimization of Nuke-TOF C&E Research will assume responsibility for optimization of Nuke-MS under constraints imposed by mission operational concepts. N4. Path Forward discussions, meetings, documentation, and presentations Schedule: 1. Development of Breadboard Nuke-MS 2010 2011 1a) Design and modeling Q3 Q4 1b) Component fabrication Q3 Q4 Q1 1c) Integration with laser subsystem Q4 Q1 Q2 1d) Vacuum subsystem (Creare, Inc.) Q4 Q1 Q2 1e) Sample handling subsystem Q4 Q1 Q2 2. Functional Testing of Breadboard Nuke-MS 2011 2a) Testing with laser subsystem Q1 Q2 Q3 2b) Testing with vacuum subsystem (Creare, Inc.) Q1 Q2 Q3 2c) Testing with sample handling subsystem Q1 Q2 Q3</p>	699
699.0-010-00	MOMA Machining Support	<p>Shall support machining, welding, assembly, and travel logistics for the Mars Organic Molecule Analyzer (MOMA) project. Work shall be accomplished in the Code 699 laboratories at GSFC. Procurement services for occasional urgent items shall be provided.</p>	556

100.0-003-03	Strategic Analysis Intern	The Inter/Associate will provide support to the Directorate Integration Office (DIO) of the Exploration Systems Mission Directorate at NASA Headquarters in Washington, DC. The support will focus on ESMD Analog coordination and documentation; coordinating activities with other government agencies and industry in support of technology analysis; and coordination and organization of the Outpost Science Exploration Working Group (OSEWG) - a multi-Directorate team merging science and science requirements with the Exploration Architecture to identify, track and determine science related objectives for the lunar missions.	7W79
100.0-004-00	Communications Policy Support of SIMO at NASA HQ	The Exploration Systems Mission Directorate (ESMD) at NASA HQ has a requirement for a graduate student who is trained in science, engineering and/or space policy to support the Strategic Integration and Management Office (SIMO) to perform its assigned mission. The employee will be assigned to work with the transition, education and public outreach teams as required. Duties will include analysis of NASA education and communications policy for program development, execution and evaluation; and developing applications based on this analysis that are applicable to ESMD's unique mission. Duties will also include integration of program-funded education, communications and transition activities into the overall ESMD program.	7W79

100.0-005-00	Code 100 Editorial and Communications Support	<p>Contractor must have extensive experience in the area of public communications, demonstrating in particular a high level of written and management skills and the ability to work with Goddard engineers and scientists, graphic artists, videographers, and animators to produce communications products that translate highly technical information into language easily understood by lay audiences. The contractor will be required to formulate, research, and write an annual communications plan and manage the development, layout, and distribution of specific communications products to carry out that plan. These products include the office's quarterly newsletter, the external Web site, annual reports, presentations, strategic talking points, and other products. The contractor also must formulate and execute annual surveys to support the Office in its continuous improvement efforts and plan the Office's "Annual Poster Session," technology tours, and other special events. Some technical editing is required. Specific Duties Include:</p> <ul style="list-style-type: none"> o Gathering information, writing general-interest articles, and coordinating the design and lay out of the Office's quarterly newsletter, Goddard Tech Trends. The contractor also coordinates the publication's distribution and maintains subscriber lists. Stories that have broad appeal are "pitched" to NASA's Public Affairs Office for possible inclusion on the Agency's Web portal and Goddard View newsletter. o In collaboration with the Goddard Public Affairs Office, developing news releases, Web features, articles, and other communications products that inform the general public and the internal Goddard employee workforce of technological developments. o Updating content on the Office's Web site, gsfctechnology.gsfc.nasa.gov, and coordinating changes with the Webmaster. This includes updating the site's "featured technologies" and "news and announcements" sections. o Carrying out surveys about the effectiveness of the GSFC's Internal Research and Development (IRAD) program and reporting results to the Chief Technologist. The activity supports the Chief Technologist's continuous improvement efforts. o Providing support with the planning and execution of the Office's Annual "Poster Session." The contractor is responsible for publicizing the event and coordinating with Principal Investigators to determine their exhibition requirements. The contractor also provides support with post-event communications. o Researching and writing the Office's Annual Report, which describes IRAD accomplishments. The contractor also manages and coordinates its design and layout and makes sure that the publication is available for electronic distribution. o Preparing messages and other communications, as needed by the Chief Technologist. This includes, but is not limited to, developing PowerPoint presentations and updating the Office's communications plan. o Developing past performance sheets for the New Opportunities Office and other Code 100 organizations. 	100
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130.0-002-02	K-12 CAN for NASA/GSFC Education Office	<p>The position provides primary support to the project manager for the K-12 CAN grant program. Contractor provides support to the project manager for new and current awardees, including but not limited to, designing the call for proposals, implementing review procedures, and finalizing awards consistent with NASA HQ procedures and guidance. The contractor provides support to the project manager to ensure all conditions of the awards as funded, are met. The contractor must become highly knowledgeable and familiar with implementation and administration of HQ Education requirements for K-12 projects being managed by GSFC on behalf of HQ. The contractor must become familiar and knowledgeable of HQ requirements for grant administration, including but not limited to, grant manuals, NASA Shared Services Center (NSSC), and other guidance as available. Individual must demonstrate consistent, effective and timely communication with project manager, HQ Outcome Managers, personnel and GSFC staff. The contractor provides support to the project manager with administrative tasks such as coordinating calendar of activities, due dates, scheduling regular telecons/meetings/virtual activities, etc. with awardees as necessary. The contractor provides support with maintaining and updating in a timely manner accurate data collections and files for each project. The contractor supports the project manager in a full range of activities necessary to implement awards consistent with established procedures and guidance. The contractor provides support to the project manager with the development and provisions of virtual/electronic opportunities for awardees to network, collaborate and share best practices through collaborative efforts with the distance learning and learning technologies staff. The contractor provides support with all reporting requirements and information requests including HQ Education Weekly summarizing work activity accomplishments in accordance with established timelines. The contractor provides support to collect all data requirements, documentation and coordination development of projects in coordination with the GSFC Education Office data manager. <u>The contractor provides support to the project manager to ensure all awardees meet project office and HO data requirements</u></p>	130.3
130.0-003-00	Earth Sciences Communications Support for the PAO	<p>This position is for a communications specialist at GSFC, supporting activities associated with Earth Science projects managed by Goddard. This person would support putting plans and strategies in place to promote the missions assigned to Goddard from inception, through development and launch, and science operations. * Develops and directs both strategic and tactical communication plans with key stakeholders - HQs, other NASA Centers, GSFC, government agencies, colleges and universities, international partners, news media and the public * Develops and manages communications efforts for flight projects and science results. * Coordinates outreach and inreach programs and serves as the principal liaison for the education community. * Leads efforts to collect, process and distribute time critical highly technical information about spaceflight, science or technology missions. * Supports Program and Project management with requirements for communication programs and makes recommendations for program efforts to achieve NASA's objective of engaging the public in shaping and sharing the experience of exploration and discovery. * Plans, develops and implements communication strategies for highly visible agency programs assigned to the Goddard Space Flight Center. * Reviews and evaluates existing strategies and communications plans for disseminating information and determines the most expeditious and appropriate avenues for disseminating information to the public and arranges for mass dissemination of information materials. * Ensures that information that is disseminated is absolutely accurate, complete, and intellectually honest. * Plans and coordinates briefings and public meetings on normal programmatic matters, determining the appropriate spokesperson or spokespersons, preparing material for use in major press conferences and interviews, and ensuring spokespersons have been adequately trained and prepared to respond to the news media on topics for both crisis and non-crisis news events.</p>	130

	A	B	C	D	H	I
	Item	<u>Contract Receiver</u>	<u>ECN</u>	<u>Equipment Description</u>	<u>Custodian Account</u>	<u>Acquisition Value</u>
1						
2						
3	1	NNG06EB68	1672871	DISK ARRAY	6145	\$ 10,417.00
4	2	NNG06EB68	1672899	DISK ARRAY	6145	\$ 10,417.00
5	3	NNG06EB68	1673814	SERVER	6145	\$ 2,403.00
6	4	NNG06EB68	1673816	SERVER	6145	\$ 2,403.00
7	5	NNG06EB68	2103435	COMPUTER, MICRO	667	\$ 2,499.00
8	6	NNG06EB68	2164597	COMPUTER, LAPTOP	610	\$ 2,249.00
9	7	NNG06EB68	2165510	COMPUTER, MICRO	6102	\$ 643.00
10	8	NNG06EB68	2165512	COMPUTER, MICRO	6102	\$ 643.00
11	9	NNG06EB68	2169282	COMPUTER, LAPTOP	670	\$ 2,101.00
12	10	NNG06EB68	2170549	COMPUTER, LAPTOP	610	\$ 2,103.00
13	11	NNG06EB68	2171143	DISPLAY UNIT	671	\$ 894.00
14	12	NNG06EB68	2171144	DISPLAY UNIT	671	\$ 894.00
15	13	NNG06EB68	2171526	COMPUTER, LAPTOP	670	\$ 2,518.00
16	14	NNG06EB68	2171551	DISPLAY UNIT	6651	\$ 1,000.00
17	15	NNG06EB68	2171552	DISPLAY UNIT	6651	\$ 1,000.00
18	16	NNG06EB68	2171564	COMPUTER, MICRO	603	\$ 2,564.00
19	17	NNG06EB68	2172766	DISPLAY UNIT	610	\$ 791.00
20	18	NNG06EB68	2172781	COMPUTER, LAPTOP	6145	\$ 2,598.00
21	19	NNG06EB68	2172912	COMPUTER, LAPTOP	610	\$ 916.00
22	20	NNG06EB68	2172958	COMPUTER, LAPTOP	671	\$ 1,844.00
23	21	NNG06EB68	2173037	COMPUTER, LAPTOP	6102	\$ 1,664.00
24	22	NNG06EB68	2173038	COMPUTER, LAPTOP	6102	\$ 1,664.00
25	23	NNG06EB68	2173039	COMPUTER, LAPTOP	6102	\$ 1,664.00
26	24	NNG06EB68	2173055	COMPUTER, LAPTOP	671	\$ 2,100.00
27	25	NNG06EB68	2173511	COMPUTER, LAPTOP	6102	\$ 1,082.00
28	26	NNG06EB68	2173512	COMPUTER, LAPTOP	6102	\$ 1,082.00
29	27	NNG06EB68	2173626	COMPUTER, LAPTOP	6145	\$ 1,714.00
30	28	NNG06EB68	2173797	COMPUTER, MICRO	6102	\$ 1,731.00
31	29	NNG06EB68	2174525	COMPUTER, MICRO	6102	\$ 1,570.00

	A	B	C	D	H	I
32	30	NNG06EB68	2175333	COMPUTER, LAPTOP	671	\$ 1,600.00
33	31	NNG06EB68	2176330	COMPUTER, LAPTOP	667	\$ 2,996.00
34	32	NNG06EB68	2176336	COMPUTER, LAPTOP	6102	\$ 1,626.00
35	33	NNG06EB68	2176337	COMPUTER, LAPTOP	6102	\$ 1,088.00
36	34	NNG06EB68	2176338	COMPUTER, LAPTOP	6102	\$ 1,088.00
37	35	NNG06EB68	2501324	DISK ARRAY	6061	\$ 15,403.00
38	36	NNG06EB68	2501325	NOTHERRRAY	6061	\$ 15,403.00
39	37	NNG06EB68	2501326	DISK ARRAY	6061	\$ 15,403.00
40	38	NNG06EB68	2501327	DISK ARRAY	6061	\$ 15,403.00
41	39	NNG06EB68	2519820	COMPUTER, LAPTOP	6133	\$ 2,458.00
42	40	NNG06EB68	2549073	COMPUTER, LAPTOP	671	\$ 2,498.00
43	41	NNG06EB68	2549814	COMPUTER, LAPTOP	610	\$ 2,404.00
44	42	NNG06EB68	2550999	COMPUTER, LAPTOP	610	\$ 2,410.00
45	43	NNG06EB68	2551240	COMPUTER, LAPTOP	6102	\$ 1,439.00
46	44	NNG06EB68	2551487	COMPUTER, LAPTOP	6102	\$ 1,740.00
47	45	NNG06EB68	2551499	COMPUTER, LAPTOP	6102	\$ 1,465.00
48	46	NNG06EB68	2551500	COMPUTER, LAPTOP	6102	\$ 1,465.00
49	47	NNG06EB68	2551503	COMPUTER, LAPTOP	6102	\$ 1,465.00
50	48	NNG06EB68	2551530	COMPUTER, LAPTOP	6901	\$ 2,326.00
51	49	NNG06EB68	2551531	COMPUTER, LAPTOP	6901	\$ 2,326.00
52	50	NNG06EB68	2551532	COMPUTER, LAPTOP	6901	\$ 2,326.00
53	51	NNG06EB68	2551533	COMPUTER, LAPTOP	6602	\$ 2,326.00
54	52	NNG06EB68	2551613	COMPUTER, LAPTOP	6901	\$ 1,231.00
55	53	NNG06EB68	2551614	COMPUTER, LAPTOP	6901	\$ 1,231.00
56	54	NNG06EB68	2551615	COMPUTER, LAPTOP	6901	\$ 1,231.00
57	55	NNG06EB68	2551616	COMPUTER, LAPTOP	6901	\$ 1,231.00
58	56	NNG06EB68	2551618	COMPUTER, LAPTOP	6901	\$ 1,186.00
59	57	NNG06EB68	2551620	COMPUTER, LAPTOP	6901	\$ 1,186.00
60	58	NNG06EB68	2551625	COMPUTER, LAPTOP	6901	\$ 1,186.00
61	59	NNG06EB68	2551626	COMPUTER, LAPTOP	6901	\$ 1,186.00
62	60	NNG06EB68	2551628	COMPUTER, LAPTOP	6901	\$ 1,186.00

	A	B	C	D	H	I
63	61	NNG06EB68	2551629	COMPUTER, LAPTOP	6901	\$ 1,186.00
64	62	NNG06EB68	2551630	COMPUTER, LAPTOP	6901	\$ 1,186.00
65	63	NNG06EB68	2551746	COMPUTER, LAPTOP	672	\$ 2,695.00
66	64	NNG06EB68	2551754	COMPUTER, LAPTOP	6651	\$ 3,000.00
67	65	NNG06EB68	2551803	COMPUTER, LAPTOP	6145	\$ 2,165.00
68	66	NNG06EB68	2551805	COMPUTER, LAPTOP	671	\$ 2,014.00
69	67	NNG06EB68	2551842	COMPUTER, LAPTOP	6145	\$ 673.00
70	68	NNG06EB68	2552218	COMPUTER, LAPTOP	6102	\$ 1,300.00
71	69	NNG06EB68	2552243	COMPUTER, LAPTOP	6102	\$ 1,300.00
72	70	NNG06EB68	2552245	COMPUTER, LAPTOP	6102	\$ 1,300.00
73	71	NNG06EB68	2552247	COMPUTER, LAPTOP	6102	\$ 1,300.00
74	72	NNG06EB68	2552248	COMPUTER, LAPTOP	6102	\$ 616.00
75	73	NNG06EB68	2552250	COMPUTER, LAPTOP	6102	\$ 616.00
76	74	NNG06EB68	2552732	COMPUTER, LAPTOP	670	\$ 2,299.00
77	75	NNG06EB68	2553926	COMPUTER, LAPTOP	665	\$ 3,000.00
78	76	NNG06EB68	3034018	COMPUTER, LAPTOP	6145	\$ 1,403.00
79	77	NNG06EB68	3034050	COMPUTER, LAPTOP	671	\$ 2,229.00
80	78	NNG06EB68	3036285	COMPUTER, LAPTOP	661	\$ 2,200.00
81	79	NNG06EB68	3038572	COMPUTER, LAPTOP	690	\$ 2,249.00
82	80	NNG06EB68	3039411	COMPUTER, LAPTOP	662	\$ 2,339.00
83	81	NNG06EB68	3066469	COMPUTER, MICRO	6102	\$ 643.00
84	82	NNG06EB68	3066987	COMPUTER, LAPTOP	671	\$ 3,136.00
85	83	NNG06EB68	3069121	COMPUTER, LAPTOP	671	\$ 2,875.00
86	84	NNG06EB68	3070281	COMPUTER, LAPTOP	670	\$ 2,322.00
87	85	NNG06EB68	3070711	COMPUTER, LAPTOP	6061	\$ 1,373.00
88	86	NNG06EB68	3071169	COMPUTER, LAPTOP	661	\$ 2,491.00
89	87	NNG06EB68	3071510	COMPUTER, LAPTOP	6145	\$ 2,299.00
90	88	NNG06EB68	3071570	COMPUTER, MICRO	6145	\$ 3,104.00
91	89	NNG06EB68	3071571	COMPUTER, MICRO	6145	\$ 3,104.00
92	90	NNG06EB68	3075273	COMPUTER, MICRO	6145	\$ 3,104.00
93	91	NNG06EB68	3075635	COMPUTER, LAPTOP	610	\$ 2,695.00

	A	B	C	D	H	I
94	92	NNG06EB68	3075648	COMPUTER, LAPTOP	6143	\$ 2,514.00
95	93	NNG06EB68	3075659	COMPUTER, LAPTOP	667	\$ 2,980.00
96	94	NNG06EB68	3075775	COMPUTER, LAPTOP	670	\$ 1,503.00
97	95	NNG06EB68	3075939	COMPUTER, LAPTOP	6102	\$ 1,570.00
98	96	NNG06EB68	3076570	COMPUTER, MICRO	6102	\$ 2,000.00
99	97	NNG06EB68	3078221	COMPUTER / DISPLAY	6102	\$ 1,210.00
100	98	NNG06EB68	3078734	COMPUTER, LAPTOP	6061	\$ 2,552.00
101	99	NNG06EB68	3079015	COMPUTER, LAPTOP	6102	\$ 1,786.00
102	100	NNG06EB68	3079067	COMPUTER, LAPTOP	6102	\$ 1,985.00
103	101	NNG06EB68	3079591	COMPUTER, LAPTOP	674	\$ 2,825.00
104	102	NNG06EB68	3079688	COMPUTER, LAPTOP	671	\$ 1,294.00
105	103	NNG06EB68	3079718	COMPUTER, MICRO	671	\$ 2,714.00
106	104	NNG06EB68	3080300	COMPUTER, LAPTOP	661	\$ 1,745.00
107	105	NNG06EB68	3080307	COMPUTER, LAPTOP	693	\$ 1,917.00
108	106	NNG06EB68	3080385	COMPUTER, LAPTOP	6901	\$ 1,375.00
109	107	NNG06EB68	3080611	COMPUTER, LAPTOP	661	\$ 1,482.00
110	108	NNG06EB68	3080612	COMPUTER, LAPTOP	661	\$ 1,482.00
111	109	NNG06EB68	3080782	DISPLAY UNIT	671	\$ 791.00
112	110	NNG06EB68	2548949	DELL, POWEREDGE	6145	\$ 2,936.00
113	111	NNG06EB68	2548948	DELL, POWEREDGE	6145	\$ 2,936.00
114	112	NNG06EB68	2548946	DELL, POWEREDGE	6145	\$ 2,936.00
115	113	NNG06EB68	2548947	DELL, POWEREDGE	6145	\$ 2,936.00
116	114	NNG06EB68	2548905	HP,SERVER	6145	\$ 4,000.00
117	115	NNG06EB68	2548906	HP,SERVER	6145	\$ 4,000.00
118	116	NNG06EB68	3081965	COMPUTER, LAPTOP	610	\$ 2,896.00

Attachment D										
Installation Accountable Government Property										
November 2010										
ECN	Equipment Description	Acquisition Date	Manufacturer Code	Manufacturer Name	Model Number	Manufacturer Serial No.	Location	Room	FSC Code	Construction Year
43615	RECORDER VIDEO CASSETTE	4/12/1994	56472	SONY CORP OF AMERICA	CCD-TR200	20610	GS-023	N407	5836	1994
98270	DISPLAY UNIT	10/26/1989	S5175	PANASONIC	BTM1310Y	FA9220003	GS-007	49	7025	1989
98271	RECORDER VCR	10/26/1989	S5175	PANASONIC	AG1830	H9HG00680	GS-007	49	6625	1989
181850	RECORDER VIDEO CASSETTE	3/5/1987	S0482	SONY CORP	SLHF1000	13384	GS-007	49	5836	1987
212337	COMPUTER MICRO	10/31/1985	81565	RADIO SHACK F-ALLIED RADIO	200	502005505	GS-033	H108	7021	1985
212600	MACHINE MICRO-DRILLING	11/6/1985	35870	LEVIN LOUIS AND SON INC	2243-02	NONE	GS-033	D111	3413	1985
213663	VECTOR NETWORK ANALYZER	12/20/1985	28480	HEWLETT-PACKARD CO	8510A	2531A01125	GS-034	C234A	6625	1985
213664	VECTOR NETWORK ANALYZER	12/20/1985	28480	HEWLETT-PACKARD CO	8510A	2514A01276	GS-034	C234A	6625	1985
213665	ANALYZER	12/20/1985	28480	HEWLETT-PACKARD CO	8512A	2515A00198	GS-034	C234A	6625	1985
215571	MACHINING WORK CENTER W/LATHE	6/28/1985	S4774	EMCO MAILEI AND CO	V13	NONE	GS-007	59	3410	1985
263305	PUMPING SYSTEM	6/27/1986	25060	LEYBOLD-HERAEUS VACUUM PRODUCT	WAU-200/S630F	1186170006	GS-007	031B	4310	1986
405213	ANALYZER SPECTRUM	11/1/1983	28480	HEWLETT-PACKARD CO	3582A	1809A05041	GS-034	C205A	6625	1983
514321	LATHE	1/10/1984	27239	HARDINGE BROS INC	HLV	NONE	GS-021	81	3416	1965
517554	POWER DISTRIBUTION SYSTEM	2/16/1984	15476	DIGITAL EQUIPMENT CORP	NONE	CP01964	GS-002	W124	6130	1984
581520	POWER DIST UNIT	3/26/1984	55455	LIEBERT CORP	PPC75C	51092C	GS-023	W410	5840	1983
641571	PUMP VACUUM SYSTEM	3/28/1984	19400	EDWARDS HIGH VACUUM INC	EH250	316	GS-007	59	4310	1983
647318	DEWAR	8/23/1984	21017	JANIS RESEARCH CO INC	NONE	NONE	GS-007	59	6640	1982

826811	OSCILLOSCOPE	8/19/1988	80009	TEKTRONIX INC	92465B	B010725	GS-028	N136	6625	1988
830009	CLEANER MAGNETIC TAPE	7/24/1984	63008	GRAHAM MAGNETICS INC	GMI IVMPC2	4613	GS-028	N189	7045	1984
1017900	DISPLAY UNIT	9/11/1990	58839	APPLE COMPUTER INC	M0401	5418027	GS-007	CAGE	7025	1990
1099129	DEWAR	4/11/1991	INFRL	INFRARED LABS	IRS8-03	NONE	GS-034	C205	8120	1990
1100408	VACUUM SYSTEM	7/2/1991	25306	GODDARD SPACE FLIGHT CENTER	NONE	NONE	GS-LRLWHS	L-2	4310	1991
1104020	POWER SUPPLY	9/14/1991	25916	AMETEK/INSTRUMENTS AND CONTROL	M200M	C0866881	GS-033	D111A	6130	1990
1104024	POWER SUPPLY	9/14/1991	25916	AMETEK/INSTRUMENTS AND CONTROL	M200M	C0866882	GS-033	D121A	6130	1990
1180662	BRIDGE DIGITAL	1/22/1992	30506	GENRAD INC	1693	2012050003	GS-007	N100	6625	1992
1180922	CONTROLLER	1/24/1992	4X977	QUANTUM DESIGN INC	5000	DC0020	GS-007	39	6625	1992
1188751	CONTROL CABINET	9/9/1992	COLUT	COLUTRON RESEARCH CORP	E2D	NONE	GS-022	90	6625	1992
1190361	DEWAR ARRAY TEST	11/18/1992	INFRL	INFRARED LABS	HDL10	2333	GS-034	C238A	8120	1992
1190785	COMPUTER MICRO	10/27/1992	1GE11	DELL COMPUTER CORP F-PC'S LTD	450SE2	1W94V	GS-033	D121A	7021	1992
1191309	PUMP	11/15/1992	HOVAC	HOVAC INC	MPU405726	152700	GS-002	349	4310	1992
1193305	DISK DRIVE UNIT	1/13/1993	PINNA	PINNACLE MICRO INC	PM650	5129	GS-002	W124A	7025	1992
1215216	COMPUTER MICRO	10/3/2005	7X430	SUN MICROSYSTEMS INC	DLT7000	803G3664	GS-034	C188	7021	2004
1330794	PRINTER ADP LASER	3/29/1993	28480	HEWLETT-PACKARD CO	C2001A	USBB040678	GS-033	B206	7025	1993
1331633	TRANSPORT MAGNETIC TAPE	4/19/1993	MIDAD	MID-ATLANTIC DATA SYSTEMS	EEPC2BUS	NONE	GS-028	N136	7025	1992
1339014	DISPLAY UNIT	8/17/1993	15476	DIGITAL EQUIPMENT CORP	GDM1661	ISS32207396	GS-026	133	7025	1993
1339762	RACK EQUIPMENT	10/27/1993	1Z004	SILICON GRAPHICS INC	CMNA013	18880049	GS-032	N148D	5975	1993
1411050	DISK DRIVE UNIT	12/7/1993	65867	SEAGATE	43400N	NONE	GS-026	133	7025	1993
1411723	DISPLAY UNIT	4/22/1994	0G3K8	GATEWAY COMPANIES INC	CS1572DG	236A4321956G	GS-LRLWHS	L2	7025	1994
1412811	TRANSPORT MAGNETIC TAPE	11/18/1992	0FG94	TRANSITIONAL TECHNOLOGY INC	CTS8552	574	GS-007	CAGE	7025	1992

1413074	DISK DRIVE UNIT	7/1/1994	15476	DIGITAL EQUIPMENT CORP	RRD43DA	1L41500261	GS-002	W124	7025	1994
1414991	TRANSPORT MAGNETIC TAPE	3/27/1995	7X430	SUN MICROSYSTEMS INC	411	504G0697	GS-034	C188	7025	1994
1416268	PRINTER ADP LASER	8/9/1994	58839	APPLE COMPUTER INC	M2008	BG426060	GS-033	C211	7025	1994
1416278	ANALYZER LOGIC	8/9/1994	28480	HEWLETT-PACKARD CO	166A	3338A00836	GS-033	D221	6625	1994
1416870	POWER SUPPLY	9/1/1994	SPECM	SPECTRUM SOLUTIONS INC	TD9500HV	1026G	GS-022	90	6130	1994
1417577	PRESENTER VISUAL	9/19/1994	60599	ELMO MFG CORP	EV700AF	120434	GS-023	C432B	6730	1994
1481502	COMPUTER MICRO	10/5/1998	0JLP0	DUNN COMPUTER CORP	PII266MT	126882	GS-033	D125	7021	1998
1498106	TRANSPORT MAGNETIC TAPE	11/26/1997	7X430	SUN MICROSYSTEMS INC	611T	739G1119	GS-034	S159	7025	1997
1518382	DRIVE UNIT OPTICAL	1/25/1995	ALPHT	ALPHATRONIX	FF	6010	GS-002	W124	7025	1994
1518594	CAMERA DIGITAL	2/3/1995	56472	SONY CORP OF AMERICA	UVW1800	16447	GS-033	D012	6720	1994
1519490	PRINTER ADP LASER	4/5/1995	28480	HEWLETT-PACKARD CO	C2039A	JPLG016687	GS-032	N148D	7025	1995
1519760	SERVER	4/11/1995	15476	DIGITAL EQUIPMENT CORP	450NPA9	NI51201DIQ	GS-001	12	7035	1995
1520747	LATHE	5/1/1995	60985	JET EQUIPMENT & TOOLS	1440-3PGH	JOW56	GS-021	81	3416	1994
1522760	DISPLAY UNIT	6/7/1995	S4013	HITACHI MFG CO	CM2198	G5C001958	GS-033	D117	7025	1994
1524217	ANALYZER GAS	7/21/1995	AMETE	AMETEK/DYCOR	D200MP	C133513	GS-033	D111A	6630	1995
1529646	RECORDER VIDEO CASSETTE	12/12/1995	56472	SONY CORP OF AMERICA	SV0-2000	801415	GS-023	N407	5836	1995
1600266	DISK DRIVE UNIT	12/18/1996	0GYV9	ARTECON INC	LX2140FN	24504210002	GS-034	E305	7025	1996
1625664	OPTICAL READER DATA ENTRY	10/20/1998	0LBU4	MICROTEST INC	2950-4000-03	50A98100023	GS-021	33	7025	1998
1626200	CAMERA	8/7/1998	62786	HITACHI AMERICA LTD	KPD504	8052329	GS-034	C274	6720	1998
1637519	DISPLAY UNIT	8/20/2002	S7022	SAMSUNG ELECTRONICS	191TS	GH19H4KT603417H	GS-028	N189	7025	2002
1637649	CAMERA DIGITAL	10/11/2002	OJ3K9	IMAGE SYSTEMS INC.	RETIGA EX	32002913244	GS-034	E349	6720	2002
1637696	COMPUTER SERVER	11/27/2002	58839	APPLE COMPUTER INC	A1004	XB24600ALZD	GS-033	HO40A	7021	2002

1643236	CAMERA DIGITAL	5/17/2000	S5329	NIKON CORP	D1	5018922	GS-033	D012	6720	2000
1643512	TRANSPORT MAGNETIC TAPE	6/26/2002	56472	SONY CORP OF AMERICA	SDX-D500C	3892D007	GS-032	S009	7025	2002
1643529	SWITCHING UNIT COMMUNICATION	7/3/2002	1TNP0	BROCADE COMMUNICATIONS SYS INC	3800	BR3802-0010	GS-032	S009	5895	2002
1643538	CAMERA/DIGITAL	7/8/2008	S3667	OLYMPUS OPTICAL CO LTD	E-20N	202010109	GS-021	81	6720	2008
1643551	COMPUTER SERVER	7/23/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1650	4Q3XL11	GS-032	S009	7021	2002
1643552	COMPUTER SERVER	7/23/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1650	GQ3XL11	GS-032	S009	7021	2002
1643553	COMPUTER SERVER	7/23/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1650	5Q3XL11	GS-032	S009	7021	2002
1643554	COMPUTER SERVER	7/23/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1650	7Q3XL11	GS-032	S009	7021	2002
1643555	COMPUTER SERVER	7/23/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1650	4FFYL11	GS-032	S009	7021	2002
1643560	COMPUTER SERVER	7/23/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1650	5FFYL11	GS-032	S009	7021	2002
1643561	COMPUTER SERVER	7/23/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1650	HQ3XL11	GS-032	S009	7021	2002
1643562	COMPUTER SERVER	7/23/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1650	2FFYL11	GS-032	S009	7021	2002
1643563	COMPUTER SERVER	7/23/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1650	DDFYL11	GS-032	S009	7021	2002
1643564	COMPUTER SERVER	7/23/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1650	3FFYL11	GS-032	S009	7021	2002
1643565	COMPUTER SERVER	7/23/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1650	JDFYL11	GS-032	S009	7021	2002
1643566	COMPUTER SERVER	7/23/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1650	BQ3XL11	GS-032	S009	7021	2002
1643567	COMPUTER SERVER	7/23/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1650	3Q3XL11	GS-032	S009	7021	2002
1643568	COMPUTER SERVER	7/23/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1650	6Q3XL11	GS-032	S009	7021	2002
1643569	COMPUTER SERVER	7/23/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1650	JQ3XL11	GS-032	S009	7021	2002

1643570	COMPUTER SERVER	7/23/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1650	DQ3XL11	GS-032	S009	7021	2002
1643571	COMPUTER MICRO	7/23/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1650	FD FYL11	GS-032	S009	7021	2002
1643572	COMPUTER SERVER	7/23/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1650	1FFYL11	GS-032	S009	7021	2002
1643573	COMPUTER SERVER	7/23/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1650	HDFYL11	GS-032	S009	7021	2002
1643574	COMPUTER SERVER	7/23/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1650	GDFYL11	GS-032	S009	7021	2002
1643723	COMPUTER MICRO	8/1/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	ETL	HKN4Q11	GS-032	S009	7021	2002
1643793	COMPUTER MICRO	6/30/2000	07FM0	VA RESEARCH INC	2250	SX0710004938	GS-032	S009	7021	2000
1644001	CAMERA VIDEO	9/12/2000	0AVN0	PICTURETEL CORP	APTZ1N	B0531N070	GS-023	C432	5820	2000
1644491	SERVER	4/20/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	CBHRP41	GS-032	S009	7035	2004
1644493	SERVER	4/26/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	49P9Q41	GS-032	S009	7035	2004
1644494	SERVER	4/26/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	39P9Q41	GS-032	S009	7035	2004
1644506	SERVER	5/17/2004	0G3K8	GATEWAY COMPANIES INC	975	33228478	GS-028	E220C	7035	2004
1644507	SERVER	5/17/2004	0G3K8	GATEWAY COMPANIES INC	975	33228476	GS-028	E220C	7035	2004
1644508	SERVER	5/17/2004	0G3K8	GATEWAY COMPANIES INC	975	33228477	GS-028	E220C	7035	2004
1644512	SERVER	6/17/2004	58839	APPLE COMPUTER INC	A1068	QP4200CAPNK	GS-023	C236A	7035	2004
1644514	SERVER	6/23/2004	58839	APPLE COMPUTER INC	A1068	QP4220JKPNK	GS-033	H111	7035	2004
1644518	DISK ARRAY	6/22/2004	1C1X5	RAID INC	FS4000	12321C	GS-033	H111A	7025	2004
1644519	DISK ARRAY	6/22/2004	1C1X5	RAID INC	FS4000	12321B	GS-032	S009	7025	2004
1644520	DISK ARRAY	6/22/2004	1C1X5	RAID INC	FS4000	12321A	GS-032	S009	7025	2004
1644546	SERVER	8/16/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	1J8JG51	GS-032	S009	7035	2004
1644784	SERVER	8/26/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	50RGK51	GS-034	C184	7035	2004
1645124	SERVER	9/11/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	IMU	6KJ1T11	GS-033	H111A	7035	2002

1645125	SERVER	9/11/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	IMU	87ZYW11	GS-033	H111A	7035	2002
1645126	SERVER	9/11/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	IMU	BKJ1T11	GS-033	H111A	7035	2002
1645127	SERVER	9/11/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	IMU	8KJ1T11	GS-033	H111A	7035	2002
1645128	SERVER	9/11/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	IMU	5KJ1T11	GS-033	H111A	7035	2002
1664249	COMPUTER MICRO	6/15/2001	1Z004	SILICON GRAPHICS INC	SGI 1100	82880112247582	GS-028	E220C	7021	2001
1664281	COMPUTER MICRO	6/20/2001	1Z004	SILICON GRAPHICS INC	SGI 1100	966800112552680	GS-032	S009	7021	2001
1664456	CAMERA RECORDING VIDEO	6/18/2001	60939	CANON USA MICROGRAPHICS DIV	PT-V4NR	2206820117	GS-023	C432	5836	2001
1664508	COMPUTER SERVER	7/18/2001	1GE11	DELL COMPUTER CORP F-PC'S LTD	IMP	9LP6P01	GS-032	S009	7021	2001
1664509	COMPUTER SERVER	7/18/2001	1GE11	DELL COMPUTER CORP F-PC'S LTD	IMP	FLP6P01	GS-032	S009	7021	2001
1664510	COMPUTER SERVER	7/18/2001	1GE11	DELL COMPUTER CORP F-PC'S LTD	IMP	DLP6P01	GS-032	S009	7021	2001
1664511	COMPUTER SERVER	7/18/2001	1GE11	DELL COMPUTER CORP F-PC'S LTD	IMP	CLP6P01	GS-032	S009	7021	2001
1664913	SERVER	12/13/2001	30874	INTERNATIONAL BUSINESS MACHINE	82X	78-W6924	GS-032	S009	7035	2001
1664979	COMPUTER MICRO	9/19/2001	1GE11	DELL COMPUTER CORP F-PC'S LTD	IMP	22XNT01	GS-032	S009	7021	2001
1664980	COMPUTER MICRO	9/19/2001	1GE11	DELL COMPUTER CORP F-PC'S LTD	IMP	32XNT01	GS-032	S009	7021	2001
1664981	COMPUTER MICRO	9/19/2001	1GE11	DELL COMPUTER CORP F-PC'S LTD	IMP	42XNT01	GS-032	S009	7021	2001
1665189	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	2XX7611	GS-032	S009	7021	2002
1665190	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	1B27611	GS-033	H111A	7021	2002
1665191	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	DXX7611	GS-032	S009	7021	2002
1665192	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	F0D8611	GS-032	S009	7021	2002

1665193	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	H0D8611	GS-032	S009	7021	2002
1665194	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	11D8611	GS-033	H111A	7021	2002
1665219	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	3XX7611	GS-032	S009	7021	2002
1665220	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	8SX7611	GS-032	S009	7021	2002
1665221	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	FSX7611	GS-032	S009	7021	2002
1665222	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	DSX7611	GS-033	H111A	7021	2002
1665225	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	9927611	GS-033	H111A	7021	2002
1665226	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	DXC8611	GS-032	S009	7021	2002
1665229	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	9TX7611	GS-033	H111A	7021	2002
1665232	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	4TX7611	GS-032	S009	7021	2002
1665237	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	1ZC8611	GS-032	S009	7021	2002
1665239	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	6B27611	GS-033	H111A	7021	2002
1665242	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	JN07611	GS-033	H111A	7021	2002
1665247	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	2P07611	GS-033	H111A	7021	2002
1665248	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	3Y19611	GS-033	H111A	7021	2002
1665249	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	4Y19611	GS-033	H111A	7021	2002
1665251	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	1Y19611	GS-033	H111A	7021	2002
1665252	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	24X7611	GS-033	H111A	7021	2002
1665253	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	J927611	GS-033	H111A	7021	2002

1665254	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	GTX7611	GS-033	H111A	7021	2002
1665256	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	9XX7611	GS-033	H111A	7021	2002
1665258	COMPUTER MICRO	2/12/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 1550	CXX7611	GS-033	H111A	7021	2002
1665320	COMPUTER MICRO	5/29/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP03L	DQG2J11	GS-033	H111	7021	2002
1665397	COMPUTER MICRO	6/24/2002	56472	SONY CORP OF AMERICA	PCG-641R	R2682477	GS-023	N407	7021	2002
1672123	SERVER	9/28/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	5946Q51	GS-032	S009	7035	2004
1672124	SERVER	9/28/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	3946Q51	GS-032	S009	7035	2004
1672125	SERVER	9/28/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	4946Q51	GS-032	S009	7035	2004
1672206	SERVER	10/19/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	68NRT51	GS-032	S009	7035	2004
1672207	SERVER	10/19/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	48NRT51	GS-032	S009	7035	2004
1672322	SERVER	1/14/2005	58839	APPLE COMPUTER INC	A1009	QP5010AWRS6	GS-033	H111B	7035	2004
1672329	SERVER	1/28/2005	58839	APPLE COMPUTER INC	A1068	Z08Y05Q19	GS-033	H111A	7035	2004
1672331	SERVER	1/28/2005	58839	APPLE COMPUTER INC	A1068	0P45504TPNK	GS-033	H111A	7035	2004
1672334	SERVER	2/3/2005	58839	APPLE COMPUTER INC	A1068	QP505014SLX	GS-007	142	7035	2004
1672343	SERVER	2/10/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	5N05S61	GS-023	N305A	7035	2004
1672352	SERVER	2/11/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	BJX8S61	GS-032	S009	7035	2005
1672353	SERVER	2/11/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	CJX8S61	GS-032	S009	7035	2005
1672354	SERVER	2/11/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	DJX8S61	GS-032	S009	7035	2005
1672355	SERVER	2/11/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	6JX8S61	GS-032	S009	7035	2005

1672356	SERVER	2/11/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	9JX8S61	GS-032	S009	7035	2005
1672357	SERVER	2/11/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	7JX8S61	GS-032	S009	7035	2005
1672358	SERVER	2/11/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	5JX8S61	GS-032	S009	7035	2005
1672359	SERVER	2/11/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	8JX8S61	GS-032	S009	7035	2005
1672360	SERVER	2/11/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	HJX8S61	GS-032	S009	7035	2005
1672361	SERVER	2/11/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	JJX8S61	GS-032	S009	7035	2005
1672362	SERVER	2/11/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	GJX8S61	GS-032	S009	7035	2005
1672363	SERVER	2/11/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	FJX8S61	GS-032	S009	7035	2005
1672364	SERVER	2/11/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	3KY8S61	GS-032	S009	7035	2005
1672365	SERVER	2/11/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	JJY8S61	GS-032	S009	7035	2005
1672366	SERVER	2/11/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	1KY8S61	GS-032	S009	7035	2005
1672367	SERVER	2/11/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	2KY8S61	GS-032	S009	7035	2005
1672368	SERVER	2/11/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	1KX8S61	GS-032	S009	7035	2005
1672369	SERVER	2/11/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	2KX8S61	GS-032	S009	7035	2005
1672370	SERVER	2/11/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	3KX8S61	GS-032	S009	7035	2005
1672371	SERVER	2/11/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	4KX8S61	GS-032	S009	7035	2005
1672374	SERVER	2/16/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	SM0P01	1494T61	GS-023	N305A	7035	2004
1672823	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6604596	GS-032	S009	7025	2004
1672872	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6587690	GS-032	S009	7025	2004
1672873	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6587674	GS-032	S009	7025	2004
1672876	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6591533	GS-032	S009	7025	2004
1672877	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6591540	GS-032	S009	7025	2004

1672878	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6587679	GS-032	S009	7025	2004
1672879	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6591472	GS-032	S009	7025	2004
1672880	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6604616	GS-032	S009	7025	2004
1672881	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6591521	GS-032	S009	7025	2004
1672882	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6587700	GS-032	S009	7025	2004
1672883	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6604647	GS-032	S009	7025	2004
1672884	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6591534	GS-032	S009	7025	2004
1672885	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6604584	GS-032	S009	7025	2004
1672886	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6602516	GS-032	S009	7025	2004
1672887	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6591526	GS-032	S009	7025	2004
1672888	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6591501	GS-032	S009	7025	2004
1672889	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6603032	GS-032	S009	7025	2004
1672890	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6591519	GS-032	S009	7025	2004
1672891	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6591507	GS-032	S009	7025	2004
1672892	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6604639	GS-032	S009	7025	2004
1672893	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6587675	GS-032	S009	7025	2004
1672894	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6591504	GS-032	S009	7025	2004
1672895	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6587697	GS-032	S009	7025	2004
1672898	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6587681	GS-032	S009	7025	2004
1672900	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6591523	GS-032	S009	7025	2004
1672903	DISK ARRAY	8/27/2004	1C1X5	RAID INC	ESA16GLB-0030	6591524	GS-032	S009	7025	2004
1673278	DISK ARRAY	4/29/2005	28480	HEWLETT-PACKARD CO	32963-B21	M020LMPX4	GS-023	C236A	7025	2005
1673403	DISK ARRAY	9/26/2005	1C1X5	RAID INC	FS2-6400	14686I	GS-032	S009	7025	2005
1673406	DISK ARRAY	9/26/2005	1C1X5	RAID INC	FS2-6400	14686H	GS-032	S009	7025	2005
1673410	DISK ARRAY	9/26/2005	1C1X5	RAID INC	FS2-6400	14686A	GS-032	S009	7025	2005
1673560	SERVER	2/22/2006	1M1T4	PENGUIN COMPUTING INC.	ALTUS 1300	P1236020152	GS-021	C023	7035	2006
1673582	DISPLAY UNIT	2/23/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	E193FP	0G6566478044C8L	GS-022	192E	7025	2005
1673583	SERVER	2/17/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	8JY6T61	GS-023	N305A	7035	2004
1673586	DISPLAY UNIT	2/22/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	2005FPW	DT6130483235291V	GS-028	N136	7025	2005
1673589	SERVER	2/22/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS	49KTT61	GS-032	C101	7035	2005

1673605	SERVER	3/4/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	7F2CW61	GS-023	N305A	7035	2004
1673656	SERVER	4/19/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS	76TF871	GS-033	H111A	7035	2005
1673662	SERVER	4/20/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS	77LJ871	GS-032	S009	7035	2005
1673674	SERVER	4/19/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS	7LTF871	GS-032	S009	7035	2005
1673675	SERVER	4/19/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS	DLTF871	GS-032	S009	7035	2005
1673677	SERVER	4/19/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS	CLTF871	GS-032	S009	7035	2005
1673678	SERVER	4/19/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS	JHTF871	GS-032	W030	7035	2005
1673679	SERVER	4/19/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS	2JTF871	GS-032	S009	7035	2005
1673682	SERVER	4/19/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS	5LTF871	GS-033	H111A	7035	2005
1673684	DISPLAY UNIT	4/19/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	2405FP	DT6133466335300	GS-034	C238A	7025	2005
1673696	TRANSPORT MAGNETIC TAPE	4/29/2005	28480	HEWLETT-PACKARD CO	ULTRIUM 960	SUSE051601E	GS-023	C236A	7025	2005
1673730	SERVER	5/23/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS	2D24K71	GS-023	N305A	7035	2005
1673758	SERVER	6/15/2005	28480	HEWLETT-PACKARD CO	PROLIANT DL380	USE523A1G2	GS-013	190	7021	2005
1673760	SERVER	6/10/2005	28480	HEWLETT-PACKARD CO	PROLIANT DL385	USE523A0NK	GS-021	C023	7035	2005
1673784	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	4219W71	GS-032	S009	7035	2005
1673785	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	7219W71	GS-032	S009	7035	2005
1673786	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	J119W71	GS-032	S009	7035	2005
1673787	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	B219W71	GS-032	S009	7035	2005
1673788	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	F079W71	GS-032	S009	7035	2005

1673789	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	4079W71	GS-032	S009	7035	2005
1673790	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	8079W71	GS-032	S009	7035	2005
1673791	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	B079W71	GS-032	S009	7035	2005
1673792	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	C169W71	GS-032	S009	7035	2005
1673793	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	G169W71	GS-032	S009	7035	2005
1673794	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	9169W71	GS-032	S009	7035	2005
1673795	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	2269W71	GS-032	S009	7035	2005
1673796	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	3D99W71	GS-032	S009	7035	2005
1673797	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	FC99W71	GS-032	S009	7035	2005
1673798	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	4L99W71	GS-032	S009	7035	2005
1673799	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	DL99W71	GS-032	S009	7035	2005
1673800	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	C119W71	GS-032	S009	7035	2005
1673801	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	6119W71	GS-032	S009	7035	2005
1673802	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	H119W71	GS-032	S009	7035	2005
1673803	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	4119W71	GS-032	S009	7035	2005
1673804	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	F11W71	GS-032	S009	7035	2005
1673805	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	7119W71	GS-032	S009	7035	2005
1673806	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	D119W71	GS-032	S009	7035	2005
1673807	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	811W71	GS-032	S009	7035	2005

1673808	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	G019W71	GS-032	S009	7035	2005
1673809	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	1119W71	GS-032	S009	7035	2005
1673810	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	2119W71	GS-032	S009	7035	2005
1673811	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	3119W71	GS-032	S009	7035	2005
1673812	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	2C99W71	GS-032	S009	7035	2005
1673813	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	8C99W71	GS-032	S009	7035	2005
1673815	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	CB99W71	GS-032	S009	7035	2005
1673817	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	6369W71	GS-032	S009	7035	2005
1673818	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	D269W71	GS-032	S009	7035	2005
1673819	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	J269W71	GS-032	S009	7035	2005
1673820	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	6Z69W71	GS-032	S009	7035	2005
1673821	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	2Z69W71	GS-032	S009	7035	2005
1673822	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	FZ69W71	GS-032	S009	7035	2005
1673823	SERVER	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU	DY69W71	GS-032	S009	7035	2005
1673827	DISPLAY UNIT	7/19/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	1905FP	DT61167161856FA	GS-034	S199	7025	2005
1673926	DISPLAY UNIT	9/9/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	1704FPT	DY429971618586A	GS-023	N305	7025	2005
1673927	DISPLAY UNIT	9/9/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	1704FPT	DY429971618586A	GS-023	N305	7025	2005
1673928	DISPLAY UNIT	9/9/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	1704FPT	DY429971618586A	GS-023	N305	7025	2005
1673929	DISPLAY UNIT	9/9/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	1704FPT	DY429971618586A	GS-023	N305	7025	2005

1673930	SERVER	9/9/2005	GS035	YANG MING INT'L CORP	NONE	C81300528A00414	GS-028	E220C	7035	2005
1674024	CAMERA DIGITAL	4/11/2006	S5329	NIKON CORP	D50	3202277	GS-034	E105	6720	2006
1674094	SERVER	4/14/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS	1DQWR91	GS-032	S009	7035	2006
1674106	SERVER	4/14/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS	HLHWR91	GS-032	S009	7035	2006
1674114	SERVER	4/14/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS	8XBWR91	GS-032	S009	7035	2006
1674314	COMPUTER LAPTOP	2/7/2006	58839	APPLE COMPUTER INC	A1138	W860507PSWZ	GS-034	E109	7021	2006
1700011	COMPUTER MICRO	2/26/1996	58839	APPLE COMPUTER INC	M3979	FC6036RV3FV	GS-007	CAGE	7021	1995
1700537	RECORDER VIDEO CASSETTE	3/28/1996	FUTRI	FUTURE VIEW	SV01450	31554	GS-023	C432	5836	1996
1700763	JUKEBOX	4/2/1996	32964	ODETICS INC F-GYYR PRODUCTS	ACL2640	6200206-07	GS-028	N136	7035	1994
1700766	DISK DRIVE UNIT	4/1/1996	ANDTA	ANDATACO	ST410800W	3287	GS-028	N136	7025	1993
1700767	DISK DRIVE UNIT	4/1/1996	ANDTA	ANDATACO	ST41080DW	3570	GS-028	N136	7025	1993
1711296	TRANSPORT MAGNETIC TAPE	12/12/2007	7X430	SUN MICROSYSTEMS INC	DLT4000	17788	GS-034	C188	7025	1996
1737759	JUKE BOX	4/15/1997	15476	DIGITAL EQUIPMENT CORP	TL822BA	SJ62500005	GS-028	N136	7035	1996
1737825	TRANSPORT MAGNETIC TAPE	11/21/1996	7X430	SUN MICROSYSTEMS INC	TH5BAHF	CX64100537	GS-034	C188	7025	1996
1750598	TRANSPORT MAGNETIC TAPE	6/18/1996	DECNM	DIGITAL EQUIPMENT CORP	L490DSS	2K62120012	GS-028	N136	7025	1996
1750952	DISPLAY UNIT	7/9/1996	S4226	IKEGAMA TSUSHINKI CO LTD	CDM2060	79G2444	GS-405	005F	7025	1995
1751766	OVEN	7/11/1996	9X418	OK INDUSTRIES	JEM310	500150	GS-034	C274	7310	1996
1751767	MANIPULATOR PICK & PLACE	7/11/1996	9X418	OK INDUSTRIES	SMT8500	P15061095	GS-034	C274	6625	1996
1755160	COMPUTER MICRO	9/27/1996	1Z004	SILICON GRAPHICS INC	CMNB007AF195	0800690A619B	GS-032	N148D	7021	1996
1755350	CONCENTRATOR	10/2/1996	0GX96	CISCO SYSTEMS INC	WS-C1400	64007603	GS-028	N136	6625	1996
1755852	DISK DRIVE UNIT	10/10/1996	7X430	SUN MICROSYSTEMS INC	611	639G0841	GS-034	C188	7025	1996
1811761	OPTICAL READER DATA ENTRY	1/27/1997	30347	TELXON CORP	710	2.43139E+15	GS-022	C247	7025	1993

1812606	DISK DRIVE UNIT	11/26/1993	ALPHT	ALPHATRONIX	IXC10M	5686	GS-002	W120	7025	1993
1816283	TRANSPORT MAGNETIC TAPE	5/6/1997	ANDTA	ANDATACO	X4DAH51AX2S1X	SS97230085	GS-028	N136	7025	1997
1817450	PRINTER ADP	6/2/1997	28480	HEWLETT-PACKARD CO	C3982A	USBB096648	GS-033	D204	7025	1997
1818035	VACUUM PUMP ROTARY	6/19/1997	S7482	SEIKO INSTRUMENTS INC	STP400	7235	GS-033	D121A	4310	1997
1819407	COMPUTER MICRO	7/12/1997	1Z004	SILICON GRAPHICS INC	CMNB019B	1.84636E+11	GS-021	33	7021	1997
1819920	TRANSPORT MAGNETIC TAPE	7/24/1997	7X430	SUN MICROSYSTEMS INC	611	728G0459	GS-034	C188	7025	1997
1820930	TRANSPORT MAGNETIC TAPE	8/12/1997	7X430	SUN MICROSYSTEMS INC	611	730G1455	GS-028	N136	7025	1997
1820940	COMPUTER MICRO	8/12/1997	7X430	SUN MICROSYSTEMS INC	E30001	729F0BE6	GS-028	N136	7021	1997
1822485	RECEIVING SET TELEVISION-RADI	9/17/1997	HARMN	HARMAN KARDON	AVR10	1N001334107	GS-028	W271	7730	1997
1823250	DISK DRIVE UNIT	10/1/1997	APPDI	APPLIED DIGITAL SYSTEMS	AD9-7S4W	LA7409527330D	GS-034	S143	7025	1997
1823520	DISPLAY UNIT	10/6/1997	PGSYS	PRINCETON GRAPHIC SYSTEMS	E070	472063917	GS-028	N136	7025	1997
1827670	COMPUTER MICRO	12/12/2007	7X430	SUN MICROSYSTEMS INC	A23-UGD2-9L-512AH	919H3741	GS-034	C188	7021	1999
1837444	DISK DRIVE UNIT	12/12/2007	YAMHA	YAMAHA ELECTRONICS	RYB600SH	AG006063	GS-034	C188	7025	1998
1942355	DISK DRIVE UNIT	12/31/1997	7X430	SUN MICROSYSTEMS INC	711	750G4486	GS-034	C188	7025	1997
1942730	TRANSPORT MAGNETIC TAPE	1/23/1998	ANDAT	AUTO DATA INC	DLT4000TH3BA-YF	CX71002043	GS-034	C188	7025	1997
1942783	TRANSPORT MAGNETIC TAPE	1/23/1998	ANDAT	AUTO DATA INC	DLT4000TH3BA-YF	CX71002027	GS-034	C188	7025	1997
1943463	DISK DRIVE UNIT	1/29/1998	7X430	SUN MICROSYSTEMS INC	711	803G0045	GS-034	E305	7025	1997
1943471	DISK DRIVE UNIT	1/29/1998	S0482	SONY CORP	SDT9000	4351180	GS-034	C188	7025	1997
1944246	COMPUTER MICRO	2/10/1998	0G3K8	GATEWAY COMPANIES INC	ATX TOWER	9085275	GS-034	C188	7021	1997
1945352	COMPUTER MICRO	3/13/1998	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMS	DDYK2	GS-028	N136	7021	1997
1945402	DISK DRIVE UNIT	3/16/1998	TRDNT	TRIDENT TEK	NONE	3148001	GS-034	C188	7025	1997

1945485	PRINTER ADP LASER	3/19/1998	28480	HEWLETT-PACKARD CO	CC4121A	USNC086708	GS-028	W271	7025	1997
1945861	WELDER	4/2/1998	90444	UNITEK CORP	250DP	98030279	GS-033	D111	3431	1997
1946689	TRANSPORT MAGNETIC TAPE	4/21/1998	7X430	SUN MICROSYSTEMS INC	611	813G0553	GS-028	N136	7025	1997
1947219	DISK DRIVE UNIT	5/4/1998	0GYV9	ARTECON INC	F-FHKIT10122	24509190235	GS-028	N136	7025	1997
1947403	DISPLAY UNIT	5/15/1998	56472	SONY CORP OF AMERICA	GDM500PS	2707175	GS-033	D205A	7025	1998
1947727	DISK DRIVE UNIT	5/18/1998	0DV96	TOSHIBA AMERICAN INFO SYSTEMS	TXM57015	835B206281	GS-033	B111	7025	1997
1948495	CHASSIS ELECTRICAL-ELECTRONIC	6/10/1998	0GX96	CISCO SYSTEMS INC	CISCO7507	76027703	GS-028	N136	5895	1998
1951002	DISK DRIVE UNIT	5/6/1998	WESSN	WESSENDORFF NELMS & CO	DS100S2W	98188G3540	GS-021	C023	7025	1998
1951773	DISPLAY UNIT	8/31/1998	7X430	SUN MICROSYSTEMS INC	GDM5010PT	9819KH2283	GS-023	N305	7025	1998
1952217	TRANSPORT MAGNETIC TAPE	9/14/1998	7X430	SUN MICROSYSTEMS INC	622	833G1429	GS-034	E305	7025	1998
1953121	DISK DRIVE UNIT	9/30/1998	63852	QUANTUM CORP	TH6ZE-YF	CX83501312	GS-033	H103A	7025	1998
1953730	DISPLAY UNIT	10/15/1998	1GE11	DELL COMPUTER CORP F-PC'S LTD	D1025TM	8301092	GS-028	N136	7025	1998
1954589	TRANSPORT MAGNETIC TAPE	11/4/1998	7X430	SUN MICROSYSTEMS INC	611	842G2589	GS-034	S143	7025	1998
1955071	DISK DRIVE UNIT	12/10/1998	51441	YAMAHA INTERNATIONAL CORP	CRW4260TX	AG006424	GS-034	S143	7025	1998
1955585	COMPUTER MICRO	12/8/1998	0G3K8	GATEWAY COMPANIES INC	ATX TOWER	11828355	GS-021	C021	7021	1998
1955946	PRINTER ADP LASER	1/7/1999	28480	HEWLETT-PACKARD CO	C3982A	USDN006582	GS-021	C129	7025	1998
1956090	COMPUTER MICRO	1/14/1999	7X430	SUN MICROSYSTEMS INC	ULTRA 60	902F206I	GS-034	S143	7021	1998
1956388	COMPUTER MICRO	2/1/1999	7X430	SUN MICROSYSTEMS INC	2360	902F2060	GS-023	N305	7021	1998
1957802	COMPUTER MICRO	1/15/2002	58839	APPLE COMPUTER INC	IMAC G4800	QT20937NLF4	GS-T21A	#	7021	2002
2030945	DISK DRIVE UNIT	3/23/1999	7X430	SUN MICROSYSTEMS INC	711	911C36660	GS-034	C188	7025	1998

2031197	COMPUTER MICRO	3/30/1999	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMM	IT5CU	GS-028	N136	7021	1999
2031501	COUNTER PHOTON	4/14/1999	7Z725	STANFORD RESEARCH SYSTEMS	SR400	1589	GS-033	D125	6625	1998
2032171	PRINTER ADP LASER	5/5/1999	28480	HEWLETT-PACKARD CO	C4120A	USQF006738	GS-034	S159	7025	1999
2032218	TRANSPORT MAGNETIC TAPE	5/7/1999	7X430	SUN MICROSYSTEMS INC	611	916C2933	GS-028	N136	7025	1999
2032391	PRINTER ADP LASER	5/20/1999	28480	HEWLETT-PACKARD CO	C4087A	USDD023540	GS-002	W120	7025	1999
2032905	COMPUTER MICRO	6/7/1999	7X430	SUN MICROSYSTEMS INC	ULTRA 10	FW92120077	GS-023	N305	7021	1999
2033143	COMPUTER MICRO	6/9/1999	58839	APPLE COMPUTER INC	M5183	SG91315QG51	GS-034	S279	7021	1999
2033260	DISK DRIVE UNIT	6/23/1999	7X430	SUN MICROSYSTEMS INC	711	922C2136	GS-002	W130	7025	1999
2033553	COMPUTER MICRO	7/7/1999	7X430	SUN MICROSYSTEMS INC	ULTRA 60 ELITE	925H465D	GS-021	131C	7021	1999
2033554	TRANSPORT MAGNETIC TAPE	7/7/1999	7X430	SUN MICROSYSTEMS INC	622	925C1772	GS-021	C023	7025	1999
2034089	COMPUTER MICRO	7/28/1999	1ELU9	SITE GRAPHICS	N440BXKIP20B	000054P20B0081	GS-032	S009	7021	1999
2034090	COMPUTER MICRO	7/28/1999	1ELU9	SITE GRAPHICS	N440BXKIP20B	000054P20B0049	GS-032	S009	7021	1999
2034355	PRINTER ADP LASER	8/6/1999	28480	HEWLETT-PACKARD CO	C4254TN	USCC041683	GS-021	L108	7025	1999
2034492	COMPUTER MICRO	8/18/1999	7X430	SUN MICROSYSTEMS INC	ULTRA 10	FW93310471	GS-026	153	7021	1999
2034508	COMPUTER MICRO	8/19/1999	7X430	SUN MICROSYSTEMS INC	ULTRA 10	FW93120228	GS-021	58	7021	1999
2035213	DEWAR TEST	5/1/2000	25306	GODDARD SPACE FLIGHT CENTER	NONE	NONE	GS-LRLWHS	L2	6640	1993
2035251	MICROSCOPE	8/27/1999	0VSA9	VISION LOGIC	LYNX	20212	GS-034	C274	6650	1999
2035265	TRANSPORT MAGNETIC TAPE	3/26/1998	APPDI	APPLIED DIGITAL SYSTEMS	455-4W	60024624-8120G	GS-028	S206	7025	1997
2035465	COMPUTER MICRO	9/22/1999	7X430	SUN MICROSYSTEMS INC	ULTRA 60	936H4094	GS-026	153	7021	1999
2035677	COMPUTER MICRO	6/22/1999	1Z004	SILICON GRAPHICS INC	CMNB015ANG300	0800690260A9	GS-033	H103A	7021	1999
2035716	COMPUTER MICRO	9/23/1999	7X430	SUN MICROSYSTEMS INC	ULTRA 60	937H275B	GS-034	E305	7021	1999

2035717	DISK DRIVE UNIT	9/23/1999	7X430	SUN MICROSYSTEMS INC	711	936C1384	GS-034	C188	7025	1999
2035730	TRANSPORT MAGNETIC TAPE	9/24/1999	4X977	QUANTUM DESIGN INC	TH58A-YF	CX93006896	GS-023	N218B	7025	1999
2035834	DISK DRIVE UNIT	9/29/1999	7X430	SUN MICROSYSTEMS INC	711	935C3220	GS-021	C023	7025	1999
2036016	DISK DRIVE UNIT	10/4/1999	S0482	SONY CORP	DVP-S7700	823941	GS-023	C432	7025	1999
2036149	DISK DRIVE UNIT	8/31/1999	28480	HEWLETT-PACKARD CO	C653863001	US69409486	GS-021	131C	7025	1999
2036161	DISK DRIVE UNIT	10/14/1999	65685	COMPAQ COMPUTER CORP	DLT7000	CX93000849	GS-032	S009	7025	1998
2036233	RECORDER VIDEO	10/12/1999	S0482	SONY CORP	SV0-2000	811720	GS-023	C432B	5836	1999
2036686	TRANSPORT MAGNETIC TAPE	10/27/1999	7X430	SUN MICROSYSTEMS INC	611	939C2205	GS-021	33	7025	1999
2036805	DISK DRIVE UNIT	11/3/1999	7X430	SUN MICROSYSTEMS INC	P/N# 599231701	939C3565	GS-021	131C	7025	1999
2036843	TELEVISION	11/10/1999	56472	SONY CORP OF AMERICA	KV32FVIS	9023428	GS-023	C432	5820	1998
2037070	OPTICAL READER DATA ENTRY	12/1/1999	MCNNC	IMACON INC	PRECISION SCANNER	FP-99268106	GS-028	N197	7025	1999
2037072	COMPUTER MICRO	12/2/1999	1GE11	DELL COMPUTER CORP F-PC'S LTD	PPL	VHNC5	GS-022	154	7021	1999
2037786	COMPUTER MICRO	1/11/2000	7X430	SUN MICROSYSTEMS INC	ULTRA 60	952H333F	GS-034	S199	7021	2000
2038191	PRINTER ADP LASER	2/10/2000	28480	HEWLETT-PACKARD CO	C4253A	USBB130327	GS-022	10	7025	1999
2038754	COMPUTER MICRO	3/28/2000	7X430	SUN MICROSYSTEMS INC	ENTERPRISE 250	013H24AD	GS-028	N136	7021	2000
2039092	COMPUTER MICRO	3/22/2000	58839	APPLE COMPUTER INC	G 4	XB0079PDJ2A	GS-034	W235	7021	1999
2040316	PRINTER ADP LASER	5/1/2000	28480	HEWLETT-PACKARD CO	C4254A	USCC124697	GS-021	46	7025	1999
2040458	COMPUTER MICRO	5/10/2000	0G3K8	GATEWAY COMPANIES INC	ATX	18013938	GS-022	C247	7021	2000
2040462	COMPUTER MICRO	5/10/2000	0G3K8	GATEWAY COMPANIES INC	B3 PERFORMANCE 80	18536684	GS-022	070U	7021	2000
2040570	PRINTER ADP LASER	5/15/2000	28480	HEWLETT-PACKARD CO	C4172A	USGW075503	GS-023	N407	7025	2000

2040634	COMPUTER MICRO	5/31/2000	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCM	9N5J00B	GS-033	D106	7021	2000
2041075	COMPUTER MICRO	6/22/2000	024U5	MICRON ELECTRONICS INC	S1854TP111866	23003340-001	GS-033	H111B	7021	2000
2041145	DISPLAY UNIT	6/19/2000	58839	APPLE COMPUTER INC	M5662	CY0220NRG5W	GS-034	S143	7025	2000
2041834	COMPUTER MICRO	7/17/2000	1GE11	DELL COMPUTER CORP F-PC'S LTD	PPI	Y9F3L	GS-032	C101Q	7021	2000
2041848	PRINTER ADP LASER	7/18/2000	28480	HEWLETT-PACKARD CO	C4085A	USAJ001472	GS-033	F105	7025	2000
2041931	POWER SUPPLY	8/1/2000	0MG77	AMERICAN POWER CONVERSION CORP	SYMSTRF-PD	ED0030000393	GS-021	C023	6130	2000
2041968	DISK DRIVE UNIT	6/2/2000	7X430	SUN MICROSYSTEMS INC	611	019C2522	GS-034	S188	7025	2000
2042024	PROJECTOR	6/5/2000	S4117	SHARP CORP	XG-NV7XU	2312155	GS-033	E112	6730	2000
2042144	PRINTER ADP LASER	6/28/2000	18660	HEWLETT-PACKARD CO BOISE DIV	C4171A	USGV052424	GS-033	H111	7025	2000
2042525	PRINTER ADP LASER	11/17/2000	HEWPA	HEWLETT PACKARD	C4172A	USGW146029	GS-033	C211	7025	2000
2042738	PRINTER ADP LASER	8/24/2000	28480	HEWLETT-PACKARD CO	C4253A	USBB340227	GS-021	71	7025	2000
2043201	COMPUTER MICRO	9/6/2000	65685	COMPAQ COMPUTER CORP	XP900	3882Q004	GS-034	W240	7021	2000
2043338	DISPLAY UNIT	9/12/2000	0V618	VIEWSONIC CORP/ DIV KEYPOINT	VLCDS21544-1M	MW02807014	GS-033	H111	7025	2000
2043370	TRANSPORT MAGNETIC TAPE	9/13/2000	65685	COMPAQ COMPUTER CORP	NONE	9027757	GS-032	S009	7025	2000
2043533	TELEVISION	9/12/2000	56472	SONY CORP OF AMERICA	KV32542	8206486	GS-023	C432	5820	2000
2043534	COMPUTER MICRO	9/12/2000	0AVN0	PICTURETEL CORP	S2000	9900275	GS-023	C432	7021	2000
2043863	COMPUTER MICRO	9/28/2000	7X430	SUN MICROSYSTEMS INC	ULTRA 10	FW03910418	GS-026	153	7021	2000
2043864	COMPUTER MICRO	9/28/2000	7X430	SUN MICROSYSTEMS INC	ULTRA 10	FW03910415	GS-028	N134	7021	2000
2043865	DISPLAY UNIT	9/28/2000	7X430	SUN MICROSYSTEMS INC	GDM 5410	0034LB2086	GS-028	N134	7025	2000
2043866	DISPLAY UNIT	9/28/2000	7X430	SUN MICROSYSTEMS INC	GDM 5410	0034LB2070	GS-026	153	7025	2000
2043888	DISK DRIVE UNIT	9/29/2000	1A9H9	NSTOR CORP	ESPTS-3LA	SS00460154	GS-028	N136	7025	2000

2043910	POWER SUPPLY	10/2/2000	3S966	BEST POWER TECHNOLOGY INC	FE7KVA/10C	FE7K05381	GS-033	D121A	6130	2000
2044258	WELDER	10/25/2000	5942	UNITEK CORP EQUIPMENT DIV	250DP	100228	GS-033	D111	3431	2000
2044441	PRINTER ADP LASER	10/20/2000	28480	HEWLETT-PACKARD CO	C4253A	USBB386505	GS-033	D111A	7025	2000
2044479	DISPLAY UNIT	10/19/2000	1GE11	DELL COMPUTER CORP F-PC'S LTD	1501FP	4.78001E+11	GS-088	105	7025	2000
2044519	SPINNING ROTOR GAUGE	10/31/2000	23582	MKS INSTRUMENTS INC	SRG20E	5000388	GS-033	D121A	6640	2000
2044884	MILLING MACHINE	12/12/2000	8607	BRIDGEPORT MACHINES	MILLENIUM2JR8	BR282865	GS-021	81	3417	2000
2045183	DISPLAY UNIT	12/28/2000	S0482	SONY CORP	CPD L181A	2702035	GS-034	C320	7025	2000
2045303	DISPLAY UNIT	12/28/2000	S0482	SONY CORP	CPD L181A	2701822	GS-034	C320	7025	2000
2045431	COMPUTER MICRO	1/22/2001	7X430	SUN MICROSYSTEMS INC	ULTRA 60	101H287C	GS-028	N134	7021	2000
2045432	DISPLAY UNIT	1/22/2001	7X430	SUN MICROSYSTEMS INC	GDM5410	0045LB6082	GS-026	153	7025	2000
2063789	COMPUTER MICRO	12/12/2007	7X430	SUN MICROSYSTEMS INC	A21UJC1A9P-C256CY	FW13820111	GS-034	C188	7021	2001
2065622	DISK DRIVE UNIT	12/12/2007	PRTNR	PARTNERS DATA SYSTEMS INC	SURFSTOR	32283	GS-034	C188	7025	2002
2073112	SWITCH S51	8/27/2002	1G5W1	EXTREME NETWORKS	11502	0229M0037	GS-001	53	6625	2002
2103260	DISPLAY UNIT	6/27/2002	58839	APPLE COMPUTER INC	M7649	N52131X5KPW	GS-T21B	#	7025	2002
2103267	DISPLAY UNIT	6/27/2002	SCPTR	SCEPTRE TECHNOLOGIES INC	SX9G	215M00495C0535	GS-021	173	7025	2002
2103334	DISPLAY UNIT	7/2/2002	0V618	VIEWSONIC CORP/ DIV KEYPOINT	VG175	A07022010181	GS-034	E109	7025	2002
2103338	COMPUTER MICRO	7/1/2002	58839	APPLE COMPUTER INC	M6498	QT2220GHMAY	GS-021	152	7021	2002
2103353	COMPUTER MICRO	7/8/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	CZMDM11	GS-021	33	7021	2002
2103406	COMPUTER MICRO	6/28/2002	0G3K8	GATEWAY COMPANIES INC	SOLO 1450	0027451Z86	GS-021	217	7021	2002
2103433	DISPLAY UNIT	7/17/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	1702FP	8G15247602268D	GS-028	N198B	7025	2002
2107736	DISK DRIVE UNIT	3/28/2000	APSXX	APS TECHNOLOGIES	APS100268	20130184	GS-028	N136	7025	2000

2107787	COMPUTER MICRO	4/6/2000	1GE11	DELL COMPUTER CORP F-PC'S LTD	XPS-T800R	4MMAN	GS-001	29	7021	2000
2108291	DISPLAY UNIT	2/16/2001	S0319	MITSUBISHI ELECTRIC CORP	NSZ2107STTUW	12101030	GS-032	S181	7025	2000
2108377	COMPUTER MICRO	3/5/2001	7X430	SUN MICROSYSTEMS INC	BLADE 1000	108S02CA	GS-034	E305	7021	2001
2108736	DISPLAY UNIT	3/13/2001	7X430	SUN MICROSYSTEMS INC	GDM5410	0046LB9409	GS-021	C023	7025	2001
2108806	COMPUTER LAPTOP	3/16/2001	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP01X	7DZ0G01	GS-033	D106	7021	2001
2108837	DISPLAY UNIT	3/21/2001	62803	NEC INFORMATION SYSTEMS INC	ACCUSYNC 120	0701119LQ	GS-032	S048A	7025	2000
2109200	COMPUTER MICRO	4/6/2001	58839	APPLE COMPUTER INC	M5183	XB1130Q4KL1	GS-033	A321	7021	2001
2109296	COMPUTER MICRO	4/19/2001	58839	APPLE COMPUTER INC	M5884	QT11407FJBD	GS-023	W426	7021	2001
2109682	DISPLAY UNIT	4/26/2001	58839	APPLE COMPUTER INC	M8149	CY1110HLJU8	GS-021	33	7025	2001
2109731	COMPUTER LAPTOP	4/12/2001	58839	APPLE COMPUTER INC	M7692LL/A	UV115021K1L	GS-033	H108	7021	2001
2109830	COMPUTER MICRO	5/8/2001	7X430	SUN MICROSYSTEMS INC	SUN BLADE 100	FT11750410	GS-033	H111	7021	2001
2110009	COMPUTER MICRO	4/27/2001	1REJ6	TCS TOTAL COMPUTER SOLUTIONS	PENTIUM III 933	21334	GS-003	C160A	7021	2000
2110096	COMPUTER SERVER	5/29/2001	1Z004	SILICON GRAPHICS INC	ORIGIN 3200	487923A	GS-032	S009	7021	2001
2110286	CAMERA MULTIMEDIA	5/21/2001	S3374	CANON CAMERA CO INC	C22-6220	S0330101	GS-023	C432	5836	2000
2110343	DISPLAY UNIT	5/31/2001	58839	APPLE COMPUTER INC	M8149	CY1020CCJU8	GS-033	H108	7025	2001
2110390	DISPLAY UNIT	6/6/2001	0V618	VIEWSONIC CORP/ DIV KEYPOINT	VLCDS21833-1	A07011410904	GS-028	W271	7025	2001
2110422	COMPUTER MICRO	6/8/2001	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP01X	F6MNM01	GS-021	33	7021	2001
2110514	SCANNER	6/12/2001	28480	HEWLETT-PACKARD CO	N279	F9C90T10	GS-033	B111	7025	2000
2110533	MONITOR TELEVISION	6/21/2001	56472	SONY CORP OF AMERICA	PVM1354Q	2005394	GS-033	D012	5820	2000

2110538	RECEIVER	6/12/2001	HARMN	HARMAN KARDON	AVR510	TH001709069	GS-033	A425	5820	2000
2111006	DISK DRIVE UNIT	6/22/2001	RDKGT	RAIDKING TECHNOLOGIES INC	RAIDKING 450	10683	GS-033	H111A	7025	2001
2111455	TRANSPORT MAGNETIC TAPE	7/6/2001	1GE11	DELL COMPUTER CORP F-PC'S LTD	DLT1E	91252	GS-034	C188	7025	2001
2111475	SWITCHING UNIT COMMUNICATIONS	7/11/2001	1TNP0	BROCADE COMMUNICATIONS SYS INC	2400	DP000026169	GS-033	H111A	5895	2001
2111507	PRINTER -FACSIMILE	7/17/2001	17623	XEROX CORP	XTC3	48210435A	GS-034	357	7025	2001
2111508	DISPLAY UNIT	7/17/2001	S7022	SAMSUNG ELECTRONICS	170T	CN17H4UR307047H	GS-021	269	7025	2001
2111509	DISK DRIVE UNIT	7/17/2001	1HNX6	QPS INC	QPS-525	JF0D111009	GS-028	E220C	7025	2001
2111761	DISPLAY UNIT	7/12/2001	S7010	ACER INC	FP855	99L08721WU	GS-034	W274	7025	2001
2111828	COMPUTER MICRO	7/23/2001	1GE11	DELL COMPUTER CORP F-PC'S LTD	WHL	75GJQ01	GS-023	C236A	7021	2001
2111938	PRINTER ADP	8/7/2001	28480	HEWLETT-PACKARD CO	C4172A	USGW044164	GS-021	173B	7025	1999
2111961	TRANSPORT MAGNETIC TAPE	7/26/2001	QUALS	QUALSTAR CORP	3410S	2107002	GS-028	E220C	7025	2001
2111962	TRANSPORT MAGNETIC TAPE	7/26/2001	QUALS	QUALSTAR CORP	3410S	2107003	GS-028	E220C	7025	2001
2112102	DISPLAY UNIT	10/4/2000	0G3K8	GATEWAY COMPANIES INC	FPD1800	L8009B001072	GS-033	H111	7025	2000
2112142	COMPUTER MICRO	8/3/2001	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP01X	7MV0S01	GS-026	1	7021	2001
2112167	COMPUTER MICRO	8/7/2001	1GE11	DELL COMPUTER CORP F-PC'S LTD	WHL	25M1S01	GS-021	173	7021	2001
2112200	SIMULATOR CASSINI	7/31/2001	3399	UNIVERSITY OF MICHIGAN	052-180	2	GS-MICHGA	#	6910	2001
2112201	CASSINI INMS	7/30/2001	25306	GODDARD SPACE FLIGHT CENTER	NONE	2	GS-MICHGA	#	6625	2001
2112297	COMPUTER MICRO	8/14/2001	58839	APPLE COMPUTER INC	M8493	XB1310TWKSK	GS-T21A	#	7021	2001
2112318	DISPLAY UNIT	9/23/2001	0V618	VIEWSONIC CORP/ DIV KEYPOINT	VLCD5218331	A07012810221	GS-028	N189	7025	2001
2112321	DISPLAY UNIT	9/21/2001	0V618	VIEWSONIC CORP/ DIV KEYPOINT	ULDS21544-1	MW12404313	GS-021	131A	7025	2001
2112350	DISPLAY UNIT	7/25/2002	S7580	KOREA DATA SYSTEMS CO LTD	AX191	2.60121E+11	GS-028	S206	7025	2002

2112405	COMPUTER MICRO	8/8/2001	1GE11	DELL COMPUTER CORP F-PC'S LTD	DIMENSION 8100	47XLH01	GS-034	E111	7021	2001
2112484	COMPUTER MICRO	8/9/2001	1GE11	DELL COMPUTER CORP F-PC'S LTD	WHL	45M1S01	GS-021	173	7021	2001
2112485	COMPUTER MICRO	8/9/2001	1GE11	DELL COMPUTER CORP F-PC'S LTD	WHL	55M1S01	GS-034	S321	7021	2001
2112651	SERVER	3/8/2001	1Z004	SILICON GRAPHICS INC	CMN004	L1000438	GS-032	S009	7035	2001
2113020	DISPLAY UNIT	8/28/2001	S5769	NEC CORP	LCD1830	1501809CA	GS-034	W278	7025	2001
2113088	DISPLAY UNIT	8/20/2001	024U5	MICRON ELECTRONICS INC	AX150T	2.54112E+11	GS-033	H111	7025	2001
2113112	COMPUTER MICRO	9/7/2001	7X430	SUN MICROSYSTEMS INC	ULTRA 10	FW13410121	GS-021	33	7021	2001
2113268	COMPUTER MICRO	9/25/2001	7X430	SUN MICROSYSTEMS INC	SUN BLADE 100	FT13350076	GS-023	N305	7021	2001
2113319	COMPUTER MICRO	5/24/2001	58839	APPLE COMPUTER INC	M5183	XB1241Q4KXS	GS-021	047C	7021	2001
2113350	DISPLAY UNIT	6/16/2000	58839	APPLE COMPUTER INC	M7478LLA	CY02407AG5W	GS-034	W235	7025	2000
2113397	DISPLAY UNIT	9/24/2001	62803	NEC INFORMATION SYSTEMS INC	LCD1830	1802440CA	GS-030	DDL	7025	2001
2113448	DISPLAY UNIT	9/17/2001	56472	SONY CORP OF AMERICA	SMD-M81	405829	GS-034	W240	7025	2001
2113671	TRANSPORT MAGNETIC TAPE	10/16/2001	65867	SEAGATE	CM011109	HL006QB	GS-034	E105	7025	2001
2113672	DISPLAY UNIT	8/2/2001	58839	APPLE COMPUTER INC	M8149	CY1291GCJU8	GS-023	N407	7025	2001
2113869	COMPUTER MICRO	10/19/2001	7X430	SUN MICROSYSTEMS INC	SUN BLADE 1000	136C078C	GS-021	C023	7021	2001
2113938	COMPUTER MICRO	2/15/2002	SONYC	SONY CORP	PCG-621L	28331030 3102706	GS-021	247	7021	2001
2114127	DISPLAY UNIT	10/1/2001	28480	HEWLETT-PACKARD CO	L1810	KR13122496	GS-023	N409	7025	2001
2114138	SWITCH ROUTING	10/5/2001	0CDM4	KNOX VIDEO PRODUCTS	RS16X16	200109281019-001	GS-023	C432	5930	2001
2114178	COMPUTER MICRO	6/3/2008	58839	APPLE COMPUTER INC	M6497	UV1415UULPZ	GS-021	125	7021	2008
2114223	SWITCHING UNIT	11/5/2001	1G5W1	EXTREME NETWORKS	11501	0143M00645	GS-033	C104	5895	2001
2114236	SWITCHING UNIT	11/8/2001	1G5W1	EXTREME NETWORKS	11501	0143M00619	GS-028	W220	5895	2001

2114326	DISPLAY UNIT	11/9/2001	1GE11	DELL COMPUTER CORP F-PC'S LTD	1702FP	08G15247605ADAF	GS-021	173	7025	2001
2114387	DISPLAY UNIT	10/10/2001	58839	APPLE COMPUTER INC	APPLESTUDIO	71890832845	GS-T21A	#	7025	2001
2114397	DISPLAY UNIT	11/27/2001	58839	APPLE COMPUTER INC	STIDIODISPLAY	N513919JKPW	GS-034	W278	7025	2001
2114477	SWITCHING UNIT COMMUNICATIONS	11/27/2001	1G5W1	EXTREME NETWORKS	11501	0143M00659	GS-028	W271	5895	2001
2114488	TRANSPORT MAGNETIC TAPE	11/28/2001	986	QUANTUM INC	TR-S12BA-YF	CXB4300949	GS-033	H111A	7025	2001
2114489	TRANSPORT MAGNETIC TAPE	11/28/2001	986	QUANTUM INC	TR-S12BA-YF	CXB4300948	GS-033	H111A	7025	2001
2114854	COMPUTER MICRO	12/19/2001	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	F9Z2311	GS-023	N409	7021	2001
2114917	WAVEMETER	1/7/2002	53422	BURLEIGH INSTRUMENTS INC	WA1500	19368	GS-034	C238A	6625	2001
2114954	DISPLAY UNIT	5/27/2008	56472	SONY CORP OF AMERICA	SDM-M81	413109	GS-021	143C	7025	2008
2115094	DISPLAY UNIT	1/22/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	1702FP	08G15247605214A	GS-032	C101Q	7025	2002
2115255	DISPLAY UNIT	2/13/2002	0V618	VIEWSONIC CORP/ DIV KEYPOINT	VLCD523123-1B	A0J020100101	GS-032	S009	7025	2002
2115499	DISK DRIVE UNIT	2/20/2002	7X430	SUN MICROSYSTEMS INC	611	148C510E	GS-034	C188	7025	2001
2115503	COMPUTER MICRO	2/15/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	3KYW711	GS-032	W030	7021	2002
2115512	COMPUTER MICRO	2/20/2002	58839	APPLE COMPUTER INC	M8493	XB206267M1X	GS-021	33	7021	2001
2115535	DISPLAY UNIT	2/25/2002	58839	APPLE COMPUTER INC	M8149	CY205162JU8	GS-034	S279	7025	2001
2115558	COMPUTER MICRO	2/26/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	64ZQ811	GS-034	S320	7021	2002
2115653	DISPLAY UNIT	3/7/2002	58839	APPLE COMPUTER INC	M7649	N52051MEKPW	GS-028	N136	7025	2002
2133012	SWITCHING UNIT/PROG ELEC COMM	4/1/2002	1G5W1	EXTREME NETWORKS	14001	0036F12913	GS-032	S009	5895	2001
2133060	DISPLAY UNIT	4/2/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	1702FP	08G1524760523EA	GS-028	N189	7025	2002

2133070	COMPUTER MICRO	4/4/2002	58839	APPLE COMPUTER INC	M8493	XB21407AM1X	GS-034	E107	7021	2001
2133124	DISPLAY UNIT	4/8/2002	58839	APPLE COMPUTER INC	M8149	CY2030T7JU8	GS-033	E426	7025	2002
2133125	COMPUTER MICRO	4/8/2002	58839	APPLE COMPUTER INC	M8493	XB204 PCMBG	GS-033	E426	7021	2002
2133226	COMPUTER MICRO	4/10/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	86CQC11	GS-034	S396	7021	2002
2159018	PRINTER ADP LASER	5/13/2002	28480	HEWLETT-PACKARD CO	C8052A	JPLGC10314	GS-028	N189	7025	2001
2159094	SWITCHING UNIT COMMUNICATION	5/17/2002	1G5W1	EXTREME NETWORKS	11502	0217F	GS-032	S009	5895	2001
2159178	DISPLAY UNIT	5/20/2002	S7022	SAMSUNG ELECTRONICS	170TS	CN17BSAS	GS-021	81	7025	2001
2159260	COMPUTER MICRO	5/22/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	50CMH11	GS-022	10	7021	2002
2159287	DISPLAY UNIT	5/23/2002	1Z004	SILICON GRAPHICS INC	CMN 014	202KG00207	GS-033	H111A	7025	2002
2159289	DISPLAY UNIT	5/23/2002	1Z004	SILICON GRAPHICS INC	CMN 014	202KG00209	GS-034	W274	7025	2002
2159359	DISPLAY UNIT	5/30/2002	58839	APPLE COMPUTER INC	M7649	N52140MZKPW	GS-T21A	#	7025	2001
2159363	COMPUTER MICRO	5/28/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	CK7ZH11	GS-032	S036B	7021	2002
2159382	DISPLAY UNIT	5/20/2002	1Z004	SILICON GRAPHICS INC	CMM014	202KG00217	GS-033	B111	7025	2002
2159385	COMPUTER MICRO	5/20/2002	1Z004	SILICON GRAPHICS INC	CMN015	080069101E7A	GS-033	B111	7021	2002
2159403	COMPUTER MICRO	5/28/2002	58839	APPLE COMPUTER INC	M8493	XB2151FEMK9	GS-026	1	7021	2002
2159452	DISPLAY UNIT	9/25/2001	0G3K8	GATEWAY COMPANIES INC	FPD1510	MUL5007A000469	GS-033	H111A	7025	2001
2159547	PRINTER ADP LASER	5/30/2002	28480	HEWLETT-PACKARD CO	C4267A	JPBLL54409	GS-028	N136	7025	2002
2159555	COMPUTER MICRO	6/6/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	9MSNJ11	GS-023	N305	7021	2002
2159574	COMPUTER MICRO	6/6/2002	0G3K8	GATEWAY COMPANIES INC	ATXSTFLX2	27170712	GS-022	1B	7021	2002

2159582	COMPUTER MICRO	6/10/2002	58839	APPLE COMPUTER INC	M8493	XB2231NRM1X	GS-028	N136	7021	2002
2159606	SWITCHING UNIT COMMUNICATIONS	6/7/2002	1G5W1	EXTREME NETWORKS	11702	0213M00612	GS-032	S009	5895	2002
2159657	DISPLAY UNIT	5/31/2002	56472	SONY CORP OF AMERICA	SDM-S81	4002290	GS-023	N407	7025	2002
2159694	DISK ARRAY	6/18/2002	1C1X5	RAID INC	NONE	7930	GS-028	N136	7025	2002
2159754	DISK ARRAY	6/21/2002	1C1X5	RAID INC	NONE	3318332	GS-028	N136	7025	2002
2163737	COMPUTER MICRO	6/30/2004	58839	APPLE COMPUTER INC	A1047	G8422BMEPXD	GS-023	N305	7021	2004
2163739	DISPLAY UNIT	6/30/2004	58839	APPLE COMPUTER INC	M3586	CY4121AXLFA	GS-023	N305	7025	2004
2163742	COMPUTER MICRO	7/8/2004	01MW0	SYSTEMAX MFG INC	VENTURE HU26	105409205	GS-032	S074	7021	2004
2163745	COMPUTER MICRO	7/8/2004	01MW0	SYSTEMAX MFG INC	VENTURE HU26	105409204	GS-032	C101	7021	2004
2163748	COMPUTER MICRO	7/8/2004	01MW0	SYSTEMAX MFG INC	VENTURE HU26	105409200	GS-032	S043	7021	2004
2163769	COMPUTER MICRO	7/7/2004	58839	APPLE COMPUTER INC	A1047	YM426GYLQPM	GS-021	191	7021	2004
2163825	DISPLAY UNIT	7/15/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	2001FP	DC0646466334640	GS-023	N407	7025	2004
2163830	COMPUTER MICRO	7/16/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	D09M851	GS-021	33	7021	2004
2163851	COMPUTER MICRO	7/20/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHP	4584951	GS-034	C282	7021	2004
2163855	COMPUTER LAPTOP	7/19/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	PPT	657R851	GS-032	C101	7021	2004
2163906	COMPUTER LAPTOP	7/13/2004	28480	HEWLETT-PACKARD CO	NC6000	CNU4220DYH	GS-034	E103	7021	2004
2163979	DISPLAY UNIT	8/19/2004	SAMUN	SAMSUNG	213T	NB21H4JX406098L	GS-021	265	7025	2004
2164110	SERVER	8/2/2004	1Z004	SILICON GRAPHICS INC	ALTIX 350	R2000818	GS-028	E220C	7035	2004
2164111	SERVER	8/2/2004	1Z004	SILICON GRAPHICS INC	ALTIX 350	R2000817	GS-028	E220C	7035	2004
2164167	COMPUTER MICRO	7/6/2004	7X430	SUN MICROSYSTEMS INC	500-2569-08	237M3284	GS-022	C147	7021	1995
2164237	TRANSPORT MAGNETIC TAPE	9/16/2004	0FS56	EXABYTE CORP	VXA-2E	85143619	GS-034	C184	7025	2004
2164246	DISPLAY UNIT	7/22/2004	00HA3	PLANAR ADVANCE INC	PE191M-BK	M1094HE4180293	GS-028	W237	7025	2004

2164251	SERVER	7/16/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	ETL	JB53851	GS-032	S009	7035	2004
2164252	SERVER	7/16/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	ETL	DB53851	GS-032	S009	7035	2004
2164274	COMPUTER MINI	7/19/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DMC	J2RS851	GS-026	1	7021	2004
2164386	DISPLAY UNIT	8/3/2004	58839	APPLE COMPUTER INC	A1082	2A4291LFPKL	GS-021	191	7025	2004
2164410	SERVER	7/29/2004	28480	HEWLETT-PACKARD CO	SRV-DS25RM	AY43001493	GS-028	E220C	7035	2004
2164436	DISPLAY UNIT	8/6/2004	SCPTR	SCEPTRE TECHNOLOGIES INC	X9G-KOMODO IV	424M1093SM0127	GS-021	33	7025	2004
2164449	COMPUTER MICRO	8/10/2004	58839	APPLE COMPUTER INC	A1047	G84320W6QPR	GS-021	33	7021	2004
2164456	COMPUTER MICRO	8/10/2004	1TRY0	ADVANCED CLUSTERING TECHNOLOGI	8AM200	321822	GS-034	W274	7021	2004
2164464	COMPUTER MICRO	8/5/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	161FF51	GS-034	S320	7021	2004
2164471	SERVER	8/12/2004	7X430	SUN MICROSYSTEMS INC	SUNFIRE V240	FN42850023	GS-026	153	7035	2004
2164514	DISPLAY UNIT	8/17/2004	58839	APPLE COMPUTER INC	A1082	2A431248PKL	GS-034	W278	7025	2004
2164518	COMPUTER MINI	8/17/2004	MPCCO	MPC COMPUTERS	D865GLC-0DYD	3774391001	GS-032	S150D	7021	2004
2164544	PRINTER ADP LASER	8/18/2004	28480	HEWLETT-PACKARD CO	Q3670A	JPDAB07456	GS-034	W160	7025	2004
2164627	DISPLAY UNIT	8/26/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	E172FP	M16094663344M1	GS-034	C184	7025	2004
2164628	DISK ARRAY	8/26/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	AMP01	BLJBK51	GS-034	C184	7025	2004
2164641	COMPUTER MICRO	8/30/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	BSW1L51	GS-033	D111A	7021	2004
2164670	COMPUTER LAPTOP	9/8/2004	58839	APPLE COMPUTER INC	A1095	W84361J6QW3	GS-032	C101	7021	2004
2164679	COMPUTER MICRO	9/2/2004	58839	APPLE COMPUTER INC	A1047	G843454HQPR	GS-034	W278	7021	2004
2164718	SERVER	9/13/2004	7X430	SUN MICROSYSTEMS INC	SUNFIRE V240	FN43020304	GS-028	E220C	7035	2004

2164754	COMPUTER MICRO	9/17/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHS	3XY9P51	GS-034	E107	7021	2004
2164756	COMPUTER MICRO	9/13/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	9TKMM51	GS-021	131B	7021	2004
2164892	COMPUTER MICRO	10/14/2004	58839	APPLE COMPUTER INC	A1047	XB41409ZQEU	GS-T21A	#	7021	2004
2165166	COMPUTER MICRO	9/17/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	91F2P51	GS-026	153	7021	2004
2165309	COMPUTER MICRO	9/28/2004	1TRY0	ADVANCED CLUSTERING TECHNOLOGI	NONE	321875	GS-022	1B	7021	2004
2165311	DISPLAY UNIT	9/28/2004	0V618	VIEWSONIC CORP/ DIV KEYPOINT	VLCDS24020-2W	A1Q04200434	GS-022	1B	7025	2004
2165318	SERVER	9/27/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMM01	AZS2Q51	GS-028	N198B	7035	2004
2165367	COMPUTER MICRO	9/28/2005	25306	GODDARD SPACE FLIGHT CENTER	AMD ATHLON 64	NONE	GS-034	E103	7021	2004
2165429	DISPLAY UNIT	9/30/2004	56472	SONY CORP OF AMERICA	SDM-S93	3679196R	GS-023	N407	7025	2004
2165444	COMPUTER MICRO	10/1/2004	58839	APPLE COMPUTER INC	A1047	G8439HB1QPR	GS-034	W274	7021	2004
2165509	COMPUTER MICRO	9/30/2004	0G3K8	GATEWAY COMPANIES INC	WSP-E6100	34372126	GS-032	N126E	7021	2004
2165543	COMPUTER MICRO	9/30/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	WHL	1SR5Q51	GS-023	N305	7021	2004
2165547	DISPLAY UNIT	9/30/2004	0G3K8	GATEWAY COMPANIES INC	GTW-P42M303	1099753164	GS-023	N305	7025	2004
2165548	DISPLAY UNIT	9/30/2004	0G3K8	GATEWAY COMPANIES INC	GTW-P42M303	1099753270	GS-023	N305	7025	2004
2165549	DISPLAY UNIT	9/30/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	2001FP	DC0646466334720	GS-023	N305	7025	2004
2165550	DISPLAY UNIT	9/30/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	2001FP	DC0646466334720	GS-023	N305	7025	2004
2165551	DISPLAY UNIT	9/30/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	2001FP	DC064646633472D	GS-023	N305	7025	2004
2165552	DISPLAY UNIT	9/30/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	2001FP	DC06464663346B3	GS-023	N305	7025	2004
2165553	DISPLAY UNIT	9/30/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	2001FP	DC0646466334720	GS-023	N305	7025	2004

2165899	DISPLAY UNIT	3/1/2004	62803	NEC INFORMATION SYSTEMS INC	LCD1850E	208029470	GS-034	C188	7025	2003
2168211	COMPUTER MICRO	8/8/2005	1TRY0	ADVANCED CLUSTERING TECHNOLOGI	NONE	322728	GS-014	N285	7021	2005
2168218	DISPLAY UNIT	8/5/2005	S7022	SAMSUNG ELECTRONICS	213T	NB21HCJY600894	GS-033	A205	7025	2005
2168276	COMPUTER MICRO	8/15/2005	28480	HEWLETT-PACKARD CO	PS988AV	2UA5320C36	GS-023	N305	7021	2005
2168306	COMPUTER MICRO	8/17/2005	58839	APPLE COMPUTER INC	A1047	YM5250D9RU3	GS-034	S143	7021	2005
2168338	DISPLAY UNIT	8/22/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	E193FP	0G65664780456U3	GS-033	D125	7025	2005
2168340	COMPUTER LAPTOP	8/22/2005	58839	APPLE COMPUTER INC	A1106	W85300QDRG3	GS-034	W276	7021	2005
2168390	COMPUTER MICRO	9/6/2005	58839	APPLE COMPUTER INC	A1047	G85259X1RU4	GS-023	N305	7021	2005
2168404	COMPUTER MICRO	9/6/2005	58839	APPLE COMPUTER INC	A1047	G851657MRU3	GS-022	108	7021	2005
2168431	COMPUTER MINI	9/9/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	CHW5D81	GS-023	N305	7021	2005
2168432	COMPUTER MINI	9/9/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	GHW5D81	GS-023	N305	7021	2005
2168433	COMPUTER MINI	9/9/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	4JW5D81	GS-023	N305	7021	2005
2168434	COMPUTER MINI	9/9/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	1JW5D81	GS-023	N305	7021	2005
2168452	SERVER	9/13/2005	30874	INTERNATIONAL BUSINESS MACHINE	3XU	KQAMZ9V	GS-032	S009	7035	2005
2168458	COMPUTER MICRO	9/12/2005	28480	HEWLETT-PACKARD CO	XW4300	2UA53607P0	GS-023	N305	7021	2005
2168459	COMPUTER MICRO	9/12/2005	28480	HEWLETT-PACKARD CO	XW4300	2UA53607P1	GS-023	N305	7021	2005
2168505	COMPUTER / DISPLAY	9/19/2005	58839	APPLE COMPUTER INC	A1076	W85384H8SDZ	GS-021	124	7021	2005
2168509	PRINTER ADP LASER	9/21/2005	28480	HEWLETT-PACKARD CO	C8546A	JPLJB01495	GS-023	N305	7025	2005
2168577	ELECTRICAL EQUIPMENT CABINET	9/6/2005	038F0	CLARION	C7661G-F7B	107918-0969	GS-022	90	6625	2002

2168598	COMPUTER MICRO	9/14/2005	1TRY0	ADVANCED CLUSTERING TECHNOLOGI	NONE	322573	GS-022	4	7021	2005
2168775	SERVER	10/6/2005	GS035	YANG MING INT'L CORP	1U-AMD	L19404A5300766	GS-028	E220C	7035	2005
2168854	SWITCHING UNIT/PROG ELEC COMM	3/17/2003	1G5W1	EXTREME NETWORKS	11703	0243M00281	GS-033	D020	5895	2002
2168972	NETWORK CONCENTRATOR	10/17/2005	0GX96	CISCO SYSTEMS INC	VPN3000	CAM09406325	GS-023	N309	5895	2005
2169111	DISK DRIVE UNIT	10/19/2005	0K405	LA CIE LTD	2TB	154105333	GS-032	N148C	7025	2005
2169159	COMPUTER LAPTOP	11/1/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP11L	HW1GQ81	GS-034	W276	7021	2005
2169198	COMPUTER LAPTOP	11/15/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP11L	HR2P881	GS-022	10	7021	2005
2169280	SWITCH MULTIPOINT	12/12/2005	1G5W1	EXTREME NETWORKS	16101	0537G01675	GS-032	S009	5895	2005
2169281	SWITCH MULTIPOINT	12/12/2005	1G5W1	EXTREME NETWORKS	16101	0537G01676	GS-032	S009	5895	2005
2169320	COMPUTER LAPTOP	12/23/2005	0DV96	TOSHIBA AMERICAN INFO SYSTEMS	PTM40U-1CS01W	Z5079639H	GS-021	223	7021	2005
2169594	DISK DRIVE UNIT	5/10/2005	0K405	LA CIE LTD	1TB	151703803	GS-032	N126A	7025	2005
2169604	COMPUTER MICRO	12/22/2005	1TRY0	ADVANCED CLUSTERING TECHNOLOGI	323126	DSR503506200371	GS-022	5	7021	2005
2169662	SERVER	1/13/2005	1VCY4	MONARCH COMPUTER SYSTEMS INC	4P/8-4300EC04-0	MX053100169	GS-033	H111A	7035	2005
2169663	COMPUTER MICRO	1/17/2006	28480	HEWLETT-PACKARD CO	XW8200	2UA60102ZW	GS-021	C023	7021	2005
2169684	COMPUTER LAPTOP	1/19/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP11L	CY60691	GS-034	W276	7021	2005
2169702	PRINTER ADP LASER	1/26/2006	28480	HEWLETT-PACKARD CO	Q5982A	CNJBB12148	GS-033	D125	7025	2005
2169708	PRINTER ADP LASER	1/25/2006	28480	HEWLETT-PACKARD CO	Q5964A	CNGKJ25491	GS-034	E109	7025	2005
2169760	PRINTER ADP LASER	2/13/2006	26921	XEROX CORP	8550DP	WYP133021	GS-033	D012	7025	2006
2169797	PRINTER ADP LASER	2/21/2006	28480	HEWLETT-PACKARD CO	Q3950A	CNFC5D70SW	GS-026	1	7025	2005
2169815	COMPUTER MICRO	2/23/2006	58839	APPLE COMPUTER INC	A1117	YM55120YR6U	GS-021	131C	7021	2006

2170304	COMPUTER LAPTOP	3/14/2006	58839	APPLE COMPUTER INC	A1104	4H6100GJRJ5	GS-034	W278	7021	2006
2170326	DISPLAY UNIT	3/27/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	2405FPW	DT61334663362E2V	GS-023	N305	7025	2006
2170439	COMPUTER MICRO MINI	4/13/2006	58839	APPLE COMPUTER INC	A1176	YM6140VRU39	GS-022	6	7021	2006
2170512	COMPUTER LAPTOP	8/10/2006	58839	APPLE COMPUTER INC	A1151	W863207ETJ1	GS-023	N407	7021	2006
2170550	COMPUTER LAPTOP	8/16/2006	58839	APPLE COMPUTER INC	A1181	4H6331D4U9E	GS-022	2	7021	2006
2170565	DISPLAY UNIT	8/17/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	2407WFP	DCC302466633674	GS-028	N144	7025	2006
2170593	COMPUTER MICRO	8/22/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCDO	6D7PMB1	GS-023	N407	7021	2006
2170594	COMPUTER MICRO	8/22/2006	7X430	SUN MICROSYSTEMS INC	SUN ULTRA 25	0632FC100F	GS-034	C188	7021	2006
2170614	COMPUTER MICRO	8/23/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCDO	HLQ5NB1	GS-034	E309	7021	2006
2170690	OSCILLOSCOPE	7/23/2006	55716	LECROY CORP	WAVERUNNER 6KA	LCRY0606P18386	GS-034	C205A	6625	2006
2170852	COMPUTER LAPTOP	9/1/2006	58839	APPLE COMPUTER INC	A1151	W86303GBTHY	GS-034	W274	7021	2006
2170860	COMPUTER LAPTOP	8/30/2006	58839	APPLE COMPUTER INC	A1150	W86340V9VWZ	GS-034	W278	7021	2006
2170870	DISPLAY UNIT	9/6/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	2407WFP	DCC302466336781	GS-028	N136	7025	2006
2170871	DISPLAY UNIT	9/6/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	2407WFP	DCC302466336781	GS-028	N144	7025	2006
2170872	DISPLAY UNIT	9/6/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	2407WFP	DCC302466336781	GS-028	N136	7025	2006
2170873	DISPLAY UNIT	9/6/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	2407WFP	DCC302466336781	GS-028	144	7025	2006
2170874	DISPLAY UNIT	9/6/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	2407WFP	DCC302466336781	GS-028	N144	7025	2006
2170875	DISPLAY UNIT	9/6/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	2407WFP	DCC302466336781	GS-028	N136	7025	2006
2170877	DISPLAY UNIT	9/6/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	2407WFP	DCC302466336781	GS-028	N136	7025	2006
2170887	COMPUTER MICRO	9/6/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	5VS0QB1	GS-023	N218B	7021	2006

2170895	COMPUTER LAPTOP	9/8/2006	58839	APPLE COMPUTER INC	A1181	4H636102V9D	GS-021	C135	7021	2006
2170936	DISPLAY UNIT	6/4/2004	00HA3	PLANAR ADVANCE INC	PT191MU-BK	595343S0412K002	GS-088	LOBBY	7025	2004
2170962	CHASSIS SIGNAL CONDITION	9/15/2006	64667	NATIONAL INSTRUMENTS	NI-PX1-1042	V08X00BD6	GS-034	C238	5820	2006
2170963	CHASSIS SIGNAL CONDITION	9/15/2006	64667	NATIONAL INSTRUMENTS	NI-PX1-1042	V08X009E1	GS-034	C238A	5820	2006
2171016	COMPUTER LAPTOP	8/8/2006	58839	APPLE COMPUTER INC	A1150	W86312KJVWY	GS-034	W278	7021	2006
2171022	COMPUTER / DISPLAY	9/25/2006	58839	APPLE COMPUTER INC	A1207	QP63722RVUW	GS-021	201H	7021	2006
2171044	PLOTTER GRAPHICS	10/13/2006	56284	HEWLETT PACKARD CO DIS	Q1252A	SG67RC4018	GS-033	F105	7025	2006
2171107	ROUTER COMMUNICATIONS	6/16/2009	NTSCT	NETSCOUT SYSTEMS INC	9982/1G	2008051064	GS-028	W120	5895	2009
2171160	COMPUTER MICRO MINI	7/10/2009	58839	APPLE COMPUTER INC	MAC MINI	YM9042PN19Y	GS-007	N100	7021	2009
2171264	COMPUTER MAGIC PLANET SYSTEM	10/20/2008	3Y5T1	SHUTTLE INCORPORATED	ST60G	633GPOR0747F004	GS-033	E112	7021	2008
2171395	SERVER	12/15/2008	1Z004	SILICON GRAPHICS INC	ALTIX XE250	6625WXT8811546	GS-028	E220C	7035	2008
2171396	SERVER	12/15/2008	1Z004	SILICON GRAPHICS INC	ALTIX XE250	6625WXT8811539	GS-028	E220C	7035	2008
2171397	DISK ARRAY	12/15/2008	1Z004	SILICON GRAPHICS INC	IS4000	127465A	GS-028	E220C	7025	2008
2171421	COMPUTER MICRO	3/18/2009	3VMS9	SUPER MICRO COMPUTERS INC	CSE-733T-645B	900523-2	GS-032	S043	7021	2009
2171460	PRINTER ADP LASER	1/9/2009	28480	HEWLETT-PACKARD CO	Q7493A	JP8LC24893	GS-034	S159	7025	2008
2171491	COMPUTER MICRO	1/14/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCDO	D7G4YH1	GS-028	N189	7021	2009
2171512	DISPLAY UNIT	1/30/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	S2409W	Y183D742618CG0	GS-008	507	7025	2009
2171575	COMPUTER LAPTOP	2/18/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP30L	HPQ17J1	GS-034	E345	7021	2009
2172073	SWITCH MULTIPOINT	12/5/2008	1G5W1	EXTREME NETWORKS	60011	08355-00863	GS-032	S009	5895	2008
2172082	COMPUTER LAPTOP	4/3/2004	56472	SONY CORP OF AMERICA	PCG-36IL	3000512	GS-021	33	7021	2004

2172088	COMPUTER MICRO	4/3/2004	58839	APPLE COMPUTER INC	M8570	XB3452M8PC1	GS-034	S119	7021	2004
2172090	COMPUTER MICRO	4/3/2004	58839	APPLE COMPUTER INC	M8570	XB3452LWPC1	GS-021	131D	7021	2004
2172094	COMPUTER MICRO	4/3/2004	58839	APPLE COMPUTER INC	M8570	XB3452GTPC1	GS-021	131D	7021	2004
2172669	COMPUTER MICRO	4/30/2009	58839	APPLE COMPUTER INC	A1289	G891252K20G	GS-003	S025C	7021	2009
2172691	COMPUTER MICRO MINI	5/11/2009	58839	APPLE COMPUTER INC	A1283	YM9190KC1BU	GS-033	A425	7021	2009
2172703	COMPUTER MICRO MINI	5/13/2009	58839	APPLE COMPUTER INC	A1283	YM9190KB1BU	GS-033	E112	7021	2009
2172705	DISPLAY UNIT	5/8/2009	58839	APPLE COMPUTER INC	A1267	2A9106L30K0	GS-003	S025C	7025	2009
2172720	DISPLAY UNIT	5/18/2009	58839	APPLE COMPUTER INC	A1267	2H91426X0JK0	GS-033	E112	7025	2009
2172765	DISPLAY UNIT	5/22/2009	58839	APPLE COMPUTER INC	A1267	A2A9160MA0K0	GS-033	E112	7025	2009
2172782	COMPUTER MICRO MINI	5/28/2009	58839	APPLE COMPUTER INC	A1283	YM9210GM1BU	GS-033	E112	7021	2009
2172929	COMPUTER MICRO	6/29/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	5WVBBK1	GS-034	E341	7021	2009
2172931	COMPUTER MICRO	6/29/2009	1TRY0	ADVANCED CLUSTERING TECHNOLOGI	HORIZON 8XC203	326406	GS-034	S269	7021	2009
2173008	COMPUTER MICRO	7/10/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	3CYFJK1	GS-033	C222	7021	2009
2173085	MILLING MACHINE	9/16/2009	5F5C9	TORMACH LLC	PCNC1100	1472	GS-021	83	3417	2009
2173168	COMPUTER LAPTOP	8/18/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP32LB	CJFTSK1	GS-021	33	7021	2009
2173329	COMPUTER LAPTOP	8/14/2009	58839	APPLE COMPUTER INC	A1278	W89322FM66J	GS-022	2	7021	2009
2173382	COMPUTER MICRO	7/29/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	3FZZMK1	GS-021	33	7021	2009
2173384	PUMP VACUUM	7/27/2009	1B0F1	PFEIFFER VACUUM TECHNOLOGY INC	PM 103 513AT	39020774	GS-033	D125	4310	2009
2173385	PUMP VACUUM	7/27/2009	1B0F1	PFEIFFER VACUUM TECHNOLOGY INC	PM 103 513AT	39020776	GS-033	D121	4310	2009

2173524	COMPUTER / DISPLAY	8/21/2009	58839	APPLE COMPUTER INC	A1225	W892005A0TG	GS-034	E109	7021	2009
2173587	COMPUTER MICRO	8/28/2009	28480	HEWLETT-PACKARD CO	FX625AV	2UA9340766	GS-032	S033	7021	2009
2173624	COMPUTER LAPTOP	9/2/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP15S	2W3VTK1	GS-034	E103	7021	2009
2173635	DISPLAY UNIT	9/4/2009	S7022	SAMSUNG ELECTRONICS	245T	HU24HVMS700104	GS-022	2	7025	2009
2173646	COMPUTER MINI	9/9/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCSM	15WHVK1	GS-034	E109	7021	2009
2173648	COMPUTER MICRO	9/9/2009	58839	APPLE COMPUTER INC	A1289	H09362CG4PD	GS-021	131C	7021	2009
2173678	COMPUTER MICRO	9/15/2009	58839	APPLE COMPUTER INC	A1289	H09370CF4PD	GS-022	154	7021	2009
2173689	COMPUTER MICRO	9/10/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCNE	OT5PVK1	GS-022	182	7021	2009
2173708	COMPUTER LAPTOP	9/22/2009	58839	APPLE COMPUTER INC	A1286	W893610264C	GS-021	48	7021	2009
2173709	COMPUTER / DISPLAY	9/22/2009	58839	APPLE COMPUTER INC	A1225	QP340DH259	GS-034	W386	7021	2009
2173710	COMPUTER / DISPLAY	9/22/2009	58839	APPLE COMPUTER INC	A1225	QP93603Y259	GS-021	131B	7021	2009
2173711	COMPUTER / DISPLAY	9/22/2009	58839	APPLE COMPUTER INC	A1225	QP936041259	GS-021	131D	7021	2009
2173741	PRINTER ADP LASER	9/25/2009	26921	XEROX CORP	8560/DT	FBT269377G	GS-033	E112	7025	2009
2173750	COMPUTER MICRO	9/18/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCSM	B36ZVK1	GS-032	N125	7021	2009
2173754	COMPUTER MICRO	9/18/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCSM	936ZVK1	GS-032	C101C	7021	2009
2173756	COMPUTER MICRO	9/18/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCSM	636ZVK1	GS-032	S131A	7021	2009
2173757	COMPUTER MICRO	9/18/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCSM	436ZVK1	GS-032	N125	7021	2009
2173762	COMPUTER MICRO	9/18/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCSM	266ZVK1	GS-032	S130G	7021	2009
2173765	COMPUTER MICRO	9/18/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCSM	366ZVK1	GS-032	N155	7021	2009
2173767	COMPUTER MICRO	9/18/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCSM	J56ZVK1	GS-032	S131	7021	2009

2173771	COMPUTER MICRO	9/18/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCSM	536ZVK1	GS-032	S150D	7021	2009
2173777	COMPUTER MICRO	9/18/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCSM	C56ZVK1	GS-032	N126	7021	2009
2173786	COMPUTER MICRO	9/18/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCSM	J46ZVK1	GS-032	N126C	7021	2009
2173787	COMPUTER MICRO	9/18/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCSM	H46ZVK1	GS-032	N148D	7021	2009
2173790	COMPUTER MICRO	9/18/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCSM	646ZVK1	GS-032	S150D	7021	2009
2173850	COMPUTER / DISPLAY	10/2/2009	58839	APPLE COMPUTER INC	A1225	2P936040259	GS-034	W386	7021	2009
2173854	PRINTER ADP LASER	9/21/2009	28480	HEWLETT-PACKARD CO	CC470A	CNCC98V028	GS-022	166	7025	2009
2173855	PRINTER ADP LASER	9/21/2009	28480	HEWLETT-PACKARD CO	CC470A	CNCC97J1DM	GS-022	154	7025	2009
2173948	PRINTER ADP LASER	9/13/2009	3MVK9	XEROX DIRECT	PHASER6360	DBY261044	GS-034	E307	7025	2009
2173973	TRANSPORT MAGNETIC TAPE	10/13/2009	QUALS	QUALSTAR CORP	TLS 8466	2910037	GS-028	N136	7025	2010
2173984	COMPUTER MICRO	10/14/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	6TJJZK1	GS-021	137D	7021	2009
2173985	COMPUTER MICRO	10/14/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	5TJJZK1	GS-021	137D	7021	2009
2173987	COMPUTER MICRO	10/14/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	7TJJZK1	GS-021	131B	7021	2009
2173988	COMPUTER MICRO	10/15/2009	1TRY0	ADVANCED CLUSTERING TECHNOLOGI	NONE	42961P0926P0011	GS-022	2	7021	2009
2174001	COMPUTER / DISPLAY	9/30/2009	58839	APPLE COMPUTER INC	A1225	W89360UH0TG	GS-032	N148	7021	2009
2174002	COMPUTER / DISPLAY	9/30/2009	58839	APPLE COMPUTER INC	A1225	W893615Z0TG	GS-032	N148	7021	2009
2174009	COMPUTER MICRO	10/6/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCDO	J4NC0L1	GS-033	A113	7021	2009
2174010	COMPUTER MICRO	10/6/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCDO	H4NC0L1	GS-033	A113	7021	2009
2174026	COMPUTER SERVER	11/4/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	E03S	BKMS0L1	GS-028	N136	7021	2010

2174027	COMPUTER SERVER	10/22/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	E03S	CKMS0L1	GS-028	N136	7021	2010
2174515	COMPUTER MICRO	12/8/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	CFNSVH1	GS-021	137A	7021	2009
2174544	PRINTER ADP LASER	12/24/2009	28480	HEWLETT-PACKARD CO	Q7493A	JP8RD33503	GS-021	45	7025	2009
2174553	COMPUTER MICRO	12/31/2009	58839	APPLE COMPUTER INC	A1289	H09513F720H	GS-033	B111	7021	2009
2174554	DISPLAY UNIT	12/31/2009	58839	APPLE COMPUTER INC	A1267	2A9480KQ0K0	GS-033	B111	7025	2009
2174632	COMPUTER MICRO	2/16/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	GT76XL1	GS-032	S036B	7021	2010
2174648	PRINTER ADP LASER	2/26/2010	26921	XEROX CORP	6360DN	DBY263298F	GS-034	E311	7025	2010
2174652	COMPUTER MICRO	3/1/2010	0G3K8	GATEWAY COMPANIES INC	DX483105R	1A225BD07	GS-023	N305	7021	2010
2174834	COMPUTER MIRCO	9/22/2009	THINK	THINK CP TECH	TCS-SUP1141	C74300838J00367	GS-032	S181	7021	2009
2174835	COMPUTER MICRO	9/22/2009	THINK	THINK CP TECH	TCS-SUP1141	C74300838J00371	GS-032	S181	7021	2009
2174837	COMPUTER MICRO	9/22/2009	THINK	THINK CP TECH	TCS-SUP1141	C74300838J00373	GS-032	S181	7021	2009
2174840	COMPUTER MICRO	9/22/2009	THINK	THINK CP TECH	TCS-SUP1141	C74300838J00369	GS-032	S043	7021	2009
2174841	COMPUTER MICRO	9/22/2009	THINK	THINK CP TECH	TCS-SUP1141	C74300838J00372	GS-032	S043	7021	2009
2174842	COMPUTER MICRO	9/22/2009	THINK	THINK CP TECH	TCS-SUP1141	C74300838J00366	GS-032	S043	7021	2009
2174844	COMPUTER MICRO	9/22/2009	THINK	THINK CP TECH	TCS-SUP1141	C74300838J00164	GS-032	S044	7021	2009
2174845	COMPUTER MICRO	9/22/2009	THINK	THINK CP TECH	TCS-SUP1141	C74300929K30434	GS-032	S048A	7021	2009
2174851	COMPUTER MICRO	9/22/2009	THINK	THINK CP TECH	TCS-SUP1141	C74300838J00166	GS-032	S074	7021	2009
2174852	COMPUTER MICRO	9/22/2009	THINK	THINK CP TECH	TCS-SUP1141	C74300838J00168	GS-032	S074	7021	2009
2174908	RACK EQUIPMENT SATASSURE	9/23/2009	1LCH7	DATA DIRECT NETWORKS INC	RK45-9900US-R	MYA10560F	GS-032	S009	5975	2009
2174909	RACK EQUIPMENT SATASSURE	11/9/2009	1LCH7	DATA DIRECT NETWORKS INC	RK45-9900US-R	MYA10560N	GS-032	S009	5975	2009
2174961	TRANSPORT MAGNETIC TAPE	2/1/2010	QUALS	QUALSTAR CORP	IBM LT02LVD/SE	9110808255	GS-028	N136	7025	2004
2175067	COMPUTER MICRO	3/15/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	9K5N4M1	GS-021	C129	7021	2010
2175073	COMPUTER / DISPLAY	3/18/2010	58839	APPLE COMPUTER INC	A1312	QP01104L5PM	GS-034	E311	7021	2010
2175099	DISPLAY UNIT	3/29/2010	58839	APPLE COMPUTER INC	A1267	2A0080B50K0	GS-033	E112	7025	2010

2175103	DISPLAY UNIT	4/1/2010	S7022	SAMSUNG ELECTRONICS	320MP-2	MG32HCASA00788	GS-LRLWHS	1	7025	2010
2175161	DISPLAY UNIT	4/16/2010	0V618	VIEWSONIC CORP/ DIV KEYPOINT	VS11770-1M	W87500JTZCT	GS-021	223	7025	2007
2175197	SERVER APPLIANCE	4/23/2010	1XAU1	GOOGLE INC	MINI 002X	M2-JL44GCAL6JWA	GS-032	C101	7035	2010
2175222	COMPUTER MICRO	4/15/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	720RQL1	GS-021	217B	7021	2010
2175308	DISPLAY UNIT	5/7/2010	58839	APPLE COMPUTER INC	A1083	CY0070Q7XMP	GS-033	H108	7025	2010
2175350	COMPUTER / DISPLAY	5/28/2010	58839	APPLE COMPUTER INC	A1311	0P02114JB98	GS-033	E426	7021	2010
2175540	DISPLAY UNIT	7/1/2010	58839	APPLE COMPUTER INC	A1083	CY0260FLXMP	GS-021	191	7025	2010
2175541	COMPUTER MICRO	7/1/2010	58839	APPLE COMPUTER INC	A1289	H00271NP4PD	GS-021	191	7021	2010
2175570	SPHERE CARBON FIBER 68"	8/11/2009	1PA22	BW COLOR PRINTS INC	S0S-68CF	N/A	GS-GSFCDS	DSC	6650	2010
2175594	COMPUTER MICRO	6/14/2010	28480	HEWLETT-PACKARD CO	NONE	MXL02203HP	GS-023	W426	7021	2010
2175595	COMPUTER MICRO	6/15/2010	28480	HEWLETT-PACKARD CO	CPT-012-R	MXL02203HQ	GS-023	S412	7021	2010
2175671	COMPUTER MICRO	6/29/2010	28480	HEWLETT-PACKARD CO	NONE	MXL0231TPW	GS-023	N407	7021	2010
2175692	COMPUTER LAPTOP	7/7/2010	28480	HEWLETT-PACKARD CO	DV7-4080US	SCNF022431L	GS-033	B111	7021	2010
2175719	COMPUTER LAPTOP	7/13/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	P06G	9GSVKM1	GS-034	S107	7021	2010
2175720	COMPUTER LAPTOP	7/13/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	P06G	9GSWKM1	GS-034	S107	7021	2010
2175735	COMPUTER / DISPLAY	7/15/2010	58839	APPLE COMPUTER INC	A1312	QP0281B95RU	GS-026	1	7021	2010
2175759	PRINTER ADP LASER	7/22/2010	26921	XEROX CORP	8560/DN	FBT294746	GS-021	247	7025	2010
2176339	COMPUTER/ DISPLAY	8/16/2010	58839	APPLE COMPUTER INC	A1311	WQ0233AEDAS	GS-032	N148-2	7021	2009
2176341	COMPUTER/ DISPLAY	8/16/2010	58839	APPLE COMPUTER INC	A1311	WQ0236TFDAS	GS-032	N148-6	7021	2009
2176344	TELEVISIONS HOME TYPE	8/16/2010	56472	SONY CORP OF AMERICA	KDL-46EX700	8060464	GS-034	S119	7730	2010

2176386	COMPUTER LAPTOP	8/24/2010	0G3K8	GATEWAY COMPANIES INC	NV73809U	R002001022B9654	GS-034	S119	7021	2010
2176394	COMPUTER TABLET	8/25/2010	58839	APPLE COMPUTER INC	A1337	GB034Y8LETV	GS-033	A425	7021	2010
2176457	COMPUTER LAPTOP	8/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	P06G	885FNM1	GS-034	E107	7021	2010
2176461	COMPUTER / DISPLAY	8/26/2010	58839	APPLE COMPUTER INC	A1317	QP0341XEDNR	GS-034	E307	7021	2010
2176462	COMPUTER MICRO	8/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	72SMNM1	GS-033	B105	7021	2010
2176482	COMPUTER / DISPLAY	9/15/2010	58839	APPLE COMPUTER INC	A1312	QP0362FSDNR	GS-021	33	7021	2010
2176546	RACKMOUNT DISPLAY UNIT	7/28/2010	28480	HEWLETT-PACKARD CO	TFT7600	2C40192FJ1	GS-023	C236A	7025	2010
2176547	RACKMOUNT DISPLAY UNIT	7/28/2010	28480	HEWLETT-PACKARD CO	TFT7600	2C40192FJ5	GS-023	C236A	7025	2010
2176614	COMPUTER LAPTOP	9/28/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	E4310	6K35LN1	GS-033	G214	7021	2010
2176617	COMPUTER LAPTOP	10/13/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP30L	96JMK1	GS-033	D206	7021	2010
2176618	DISPLAY UNIT	9/23/2010	58839	APPLE COMPUTER INC	A1316	2A03540P6JL	GS-026	1	7025	2010
2176619	DISPLAY UNIT	9/23/2010	58839	APPLE COMPUTER INC	A1316	2A0352WR6JL	GS-026	1	7025	2010
2176621	COMPUTER LAPTOP	10/7/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP30L	F236LN1	GS-033	B105	7021	2010
2211195	DISK DRIVE UNIT	10/2/2006	PLEXT	PLEXTOR	PX-760A	36504	GS-034	C188	7025	2006
2501635	SERVER	4/5/2004	7X430	SUN MICROSYSTEMS INC	SUN FIRE V60X	FG41020154	GS-023	N305A	7035	2004
2501662	DISK ARRAY	4/9/2004	1C1X5	RAID INC	ESA16-G1B	6552637	GS-032	S009	7025	2004
2501676	SWITCHING UNIT/PROG ELEC COMM	7/1/2003	1TNP0	BROCADE COMMUNICATIONS SYS INC	SILKWORM 3800	NONE	GS-032	S009	5895	2003
2501711	CAMERA DIGITAL RECORDER	8/25/2003	JVCCO	JVC CO OF AMERICA	JY-HD10U	12860019	GS-033	D012	5836	2003
2501761	DISPLAY UNIT	4/13/2004	S7022	SAMSUNG ELECTRONICS	191TPLUS	NB19HCHX210257	GS-032	N148	7025	2004
2501821	DISPLAY UNIT	2/24/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	1900FP	09J36747605324A0	GS-033	H108	7025	2003

2501822	DISPLAY UNIT	2/24/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	1900FP	09J36747605324A0	GS-033	H108	7025	2003
2501823	DISPLAY UNIT	2/24/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	1900FP	09J36747605324A1	GS-033	H108	7025	2003
2501834	DISPLAY UNIT	3/4/2003	S7022	SAMSUNG ELECTRONICS	191T	GH19HCFTC02825T	GS-028	N189	7025	2002
2501849	DISPLAY UNIT	3/12/2003	S7022	SAMSUNG ELECTRONICS	191TS	GH19H4JTC11338H	GS-034	E305	7025	2002
2501908	COMPUTER MICRO	4/10/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMPO1	CBFBN21	GS-032	S009	7021	2003
2501909	COMPUTER MICRO	4/10/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMPO1	6BFBN21	GS-032	S009	7021	2003
2501910	COMPUTER MICRO	4/10/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMPO1	BBFBN21	GS-032	S009	7021	2003
2501911	COMPUTER MICRO	4/10/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMPO1	7BFBN21	GS-032	S009	7021	2003
2501912	COMPUTER MICRO	4/10/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMPO1	8BFBN21	GS-032	S009	7021	2003
2501914	COMPUTER MICRO	4/10/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMPO1	DCFBN21	GS-032	S009	7021	2003
2501915	COMPUTER MICRO	4/10/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMPO1	8CFBN21	GS-032	S009	7021	2003
2501916	COMPUTER MICRO	4/10/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMPO1	BCFBN21	GS-032	S009	7021	2003
2501917	COMPUTER MICRO	4/10/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMPO1	7CFBN21	GS-032	S009	7021	2003
2501929	COMPUTER MICRO	4/14/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	1CFBN21	GS-032	S009	7021	2003
2501930	COMPUTER MICRO	4/14/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	GBFBN21	GS-032	S009	7021	2003
2501931	COMPUTER MICRO	4/14/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	4CFBN21	GS-032	S009	7021	2003
2501932	COMPUTER MICRO	4/14/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	2CFBN21	GS-032	S009	7021	2003
2501933	COMPUTER MICRO	4/14/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	JBFBN21	GS-032	S009	7021	2003
2501934	COMPUTER MICRO	4/14/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	BRFBN21	GS-032	S009	7021	2003

2501935	COMPUTER MICRO	4/14/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	9RFBN21	GS-032	S009	7021	2003
2501936	COMPUTER MICRO	4/14/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	CRFBN21	GS-032	S009	7021	2003
2501937	COMPUTER MICRO	4/14/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	DRFBN21	GS-032	S009	7021	2003
2501938	COMPUTER MICRO	4/14/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	FRFBN21	GS-032	S009	7021	2003
2501940	SERVER	4/9/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	ISP 1100	GQ4FN21	GS-033	H111A	7035	2003
2501942	SERVER	4/9/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	ISP 1100	JQ4FN21	GS-033	H111A	7035	2003
2502001	DISPLAY UNIT	5/23/2003	S7022	SAMSUNG ELECTRONICS	191T	GH19HCFW221450	GS-034	C188	7025	2003
2502010	COMPUTER LAPTOP	6/2/2003	58839	APPLE COMPUTER INC	A1013	V73181XQMVZ	GS-023	W426	7021	2003
2502044	SERVER	6/19/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	7YMKX21	GS-023	N305A	7035	2003
2502053	COMPUTER MICRO	6/20/2003	58839	APPLE COMPUTER INC	A1004	XB32405XNP2	GS-023	N305A	7021	2003
2502159	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	B59P031	GS-032	S009	7035	2003
2502161	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	759P031	GS-032	S009	7035	2003
2502162	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	369P031	GS-032	S009	7035	2003
2502163	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	D4BN031	GS-032	S009	7035	2003
2502164	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	64BN031	GS-032	S009	7035	2003
2502165	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	84BN031	GS-032	S009	7035	2003
2502168	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	14BN031	GS-032	S009	7035	2003
2502169	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	715N031	GS-032	S009	7035	2003
2502170	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	215N031	GS-032	S009	7035	2003

2502171	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	915N031	GS-032	S009	7035	2003
2502172	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	G05N031	GS-032	S009	7035	2003
2502174	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	252LZ21	GS-032	S009	7035	2003
2502176	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	152LZ21	GS-032	S009	7035	2003
2502177	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	D52LZ21	GS-032	S009	7035	2003
2502178	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	852LZ21	GS-032	S009	7035	2003
2502179	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	F52LZ21	GS-032	S009	7035	2003
2502180	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	B52LZ21	GS-032	S009	7035	2003
2502181	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	9QQKZ21	GS-032	S009	7035	2003
2502182	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	GQQKZ21	GS-032	S009	7035	2003
2502183	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	JQQKZ21	GS-032	S009	7035	2003
2502184	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	HQQKZ21	GS-032	S009	7035	2003
2502185	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	5DPJZ21	GS-032	S009	7035	2003
2502186	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	2DPJZ21	GS-032	S009	7035	2003
2502187	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	7DPJZ21	GS-032	S009	7035	2003
2502188	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	4DPJZ21	GS-032	S009	7035	2003
2502190	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	262LZ21	GS-032	S009	7035	2003
2502191	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	762LZ21	GS-032	S009	7035	2003
2502193	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	21SHZ21	GS-032	S009	7035	2003

2502194	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	H0SHZ21	GS-032	S009	7035	2003
2502195	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	F0SHZ21	GS-032	S009	7035	2003
2502196	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	J0SHZ21	GS-032	S009	7035	2003
2502197	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	35BN031	GS-032	S009	7035	2003
2502198	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	H5BN031	GS-032	S009	7035	2003
2502199	SERVER	7/7/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMP01	C5BN031	GS-032	S009	7035	2003
2502201	COMPUTER MICRO	7/1/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	ETL	JKBMZ21	GS-032	S009	7021	2003
2502258	DISPLAY UNIT	9/2/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	1901FP	05Y2327161837MA	GS-002	W120	7025	2003
2502263	DISPLAY UNIT	9/11/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	1703FP	02Y31571618388A	GS-021	047C	7025	2003
2502366	COMPUTER MICRO	11/21/2003	00PU1	MPC TECHNOLOGIES INC	TRANSPORT V2000	35563240001	GS-032	N126A	7021	2003
2505397	SERVER	8/16/2007	1DCQ4	PSSC LABS (PARASOFT SALES CORP	S-SRA222-241-50-8-	355439	GS-028	W220	7035	2007
2505398	SERVER	8/16/2007	1DCQ4	PSSC LABS (PARASOFT SALES CORP	S-SRA222-12500-8-	355440	GS-028	W220	7035	2007
2505399	SERVER	8/16/2007	1DCQ4	PSSC LABS (PARASOFT SALES CORP	S-SRA222-241-50-8-	355441	GS-028	W220	7035	2007
2505586	SWITCHING UNIT	10/15/2007	1G5W1	EXTREME NETWORKS	60011	07285-00003	GS-032	S009	5895	2007
2505623	COMPUTER MICRO	2/15/2008	58839	APPLE COMPUTER INC	MAC PRO 3.1	G88072VBXYL	GS-021	264	7021	2008
2519603	SERVER	5/5/2006	28480	HEWLETT-PACKARD CO	PROLIANT DL380	USE618N1LC	GS-023	C236A	7035	2006
2519639	DISPLAY UNIT	5/17/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	2405FPW	0T61334663363S10	GS-021	131B	7025	2006
2519640	DISPLAY UNIT	5/17/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	2405FPW	0T61334663363S10	GS-021	131D	7025	2006

2519665	CAMERA	6/13/2006	L0522	QUANTITATIVE IMAGING CORP	RETIGA 4000R	320135A196	GS-034	C238	6720	2006
2519666	CAMERA	6/13/2006	L0522	QUANTITATIVE IMAGING CORP	RETIGA 4000R	320135A196	GS-034	C238	6720	2006
2519782	CAMERA-RECORDING VIDEO	7/24/2006	JVCCO	JVC CO OF AMERICA	3CCD	GZ-MG505U	GS-033	D106	5836	2006
2519933	COMPUTER MICRO	7/31/2006	1W5F1	POGO LINUX	VERONA 220	700537	GS-034	W273	7021	2006
2519940	DISK ARRAY	7/27/2006	1C1X5	RAID INC	FS2-8000	15965-J	GS-032	S009	7025	2006
2519941	DISK ARRAY	7/27/2006	1C1X5	RAID INC	FS2-8000	15965-C	GS-032	S009	7025	2006
2519942	DISK ARRAY	7/27/2006	1C1X5	RAID INC	FS2-8000	15965-E	GS-032	S009	7025	2006
2519943	DISK ARRAY	7/27/2006	1C1X5	RAID INC	FS2-8000	15965-I	GS-032	S009	7025	2006
2519944	DISK ARRAY	7/27/2006	1C1X5	RAID INC	FS2-8000	15965-D	GS-032	S009	7025	2006
2519945	DISK ARRAY	7/27/2006	1C1X5	RAID INC	FS2-8000	15965-A	GS-032	S009	7025	2006
2519946	DISK ARRAY	7/27/2006	1C1X5	RAID INC	FS2-8000	15965-B	GS-032	S009	7025	2006
2519947	DISK ARRAY	7/27/2006	1C1X5	RAID INC	FS2-8000	15965-G	GS-032	S009	7025	2006
2519948	DISK ARRAY	7/27/2006	1C1X5	RAID INC	FS2-8000	15965-H	GS-032	S009	7025	2006
2519949	DISK ARRAY	7/27/2006	1C1X5	RAID INC	FS2-8000	15965-F	GS-032	S009	7025	2006
2519985	SERVER	9/12/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMU01	79D2RB1	GS-033	H111A	7035	2006
2519992	DISK ARRAY	9/18/2006	NEXSA	NEXSAN TECHNOLOGIES	FIF-08500ADRG	F63000161086	GS-028	N136	7025	2006
2520096	SERVER	2/5/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	1KF7GC1	GS-032	S009	7035	2007
2520114	SERVER	2/5/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	5JF7GC1	GS-032	S009	7035	2006
2520115	SERVER	2/5/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	1JF7GC1	GS-032	S009	7035	2006
2520116	SERVER	2/5/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	4JF7GC1	GS-032	S009	7035	2006
2520117	SERVER	2/5/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	3JF7GC1	GS-032	S009	7035	2006
2520118	SERVER	2/5/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	DHT7GC1	GS-032	S009	7035	2006
2520119	SERVER	2/5/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	FHT7GC1	GS-032	S009	7035	2006
2520120	SERVER	2/5/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	GHT7GC1	GS-032	S009	7035	2006

2520122	SERVER	2/5/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	6HT7GC1	GS-032	S009	7035	2006
2520124	SERVER	2/5/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	5HT7GC1	GS-032	S009	7035	2006
2520125	SERVER	2/5/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	7HT7GC1	GS-032	S009	7035	2006
2520126	SERVER	2/5/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	8JF7GC1	GS-032	S009	7035	2006
2520127	SERVER	2/5/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	6JF7GC1	GS-032	S009	7035	2006
2520128	SERVER	2/5/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	9JF7GC1	GS-032	S009	7035	2006
2520129	SERVER	2/5/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	7JF7GC1	GS-032	S009	7035	2006
2520130	SERVER	2/5/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	FHF7GC1	GS-032	S009	7035	2006
2520131	SERVER	2/5/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	GHF7GC1	GS-032	S009	7035	2006
2520132	SERVER	2/5/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	HHF7GC1	GS-032	S009	7035	2006
2520133	SERVER	2/5/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	JHF7GC1	GS-032	S009	7035	2006
2520364	SERVER	9/28/2006	1Z004	SILICON GRAPHICS INC	ORGIN 300	411050SGI	GS-032	W030	7035	2006
2520365	SERVER	9/28/2006	1Z004	SILICON GRAPHICS INC	ORGIN 300	41104SGI	GS-032	S009	7035	2006
2520404	COMPUTER / DISPLAY	6/5/2008	58839	APPLE COMPUTER INC	A1224	QP7460TKX85	GS-032	N125	7021	2008
2520464	COMPUTER LAPTOP	7/22/2008	58839	APPLE COMPUTER INC	A1260	W88261KVYJZ	GS-034	W320M	7021	2008
2520530	ROUTER COMMUNICATIONS	4/16/2004	NTSCT	NETSCOUT SYSTEMS INC	9900P	2006100206	GS-028	S100	5895	2004
2520531	SWITCH MULTIPOINT	10/3/2005	OMNV1	WORLD WIDE TECHNOLOGY INC.	WS-C3750G-24TS-E	CAT1036ZKT9	GS-028	W220A	5895	2005
2520658	ROUTER COMMUNICATIONS	5/7/2007	FOR10	FORCE 10 NETWORKS	E600I	FX000001849	GS-028	W220	5895	2007
2520659	ROUTER COMMUNICATIONS	5/7/2007	FOR10	FORCE 10 NETWORKS	S5001GE48T-V	DL267080036	GS-UMD	#	5895	2007

2520660	ROUTER COMMUNICATIONS	5/7/2007	FOR10	FORCE 10 NETWORKS	S5001GE48T-V	DL267080079	GS-028	W271	5895	2007
2520661	ROUTER COMMUNICATIONS	5/7/2007	FOR10	FORCE 10 NETWORKS	S5001GE48T-V	DL267080057	GS-028	E100	5895	2007
2520727	TRANSPORT MAGNETIC TAPE	8/21/2003	1KUU9	ADVANCED COMPUTER & NETWORK CO	JETSTOR SATA RAID	SB03080276	GS-032	C101	7025	2003
2520907	SERVER	7/3/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	H0284D1	GS-032	C101	7035	2007
2520908	SERVER	7/3/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	11284D1	GS-032	C101	7035	2007
2520952	SERVER	6/17/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMT	C6LWGG1	GS-032	S033	7035	2008
2521096	SERVER	9/7/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	JY4JLD1	GS-028	E220C	7035	2007
2521143	SERVER	10/1/2007	28480	HEWLETT-PACKARD CO	PROLIANT DL380-G5	2UX72901U3	GS-023	C236A	7035	2007
2521209	SERVER	10/9/2007	28480	HEWLETT-PACKARD CO	RP3410	USE474160R	GS-023	N305A	7035	2007
2521214	DISK ARRAY	10/12/2007	MPAK1	MPAK	PAK-Z2400/750/512	V4S000A07140000	GS-032	S009	7025	2007
2521215	DISK ARRAY	10/12/2007	MPAK1	MPAK	PAK-Z2400/750/512	V4S000A07140000	GS-032	S009	7025	2007
2521216	DISK ARRAY	10/12/2007	MPAK1	MPAK	PAK-Z2400/750/512	V4S000A07140000	GS-032	S009	7025	2007
2521217	DISK ARRAY	10/12/2007	MPAK1	MPAK	PAK-Z2400/750/512	V4S000A07140000	GS-032	S009	7025	2007
2521232	DISK ARRAY	10/17/2007	MPAK1	MPAK	Z2400/750/512/RM	V4S000A07140000	GS-032	S009	7025	2007
2521233	DISK ARRAY	10/17/2007	MPAK1	MPAK	Z2400/750/512/RM	V4S000A07140000	GS-032	S009	7025	2007
2521270	SERVER	11/20/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	G94X2F1	GS-032	S009	7035	2007
2521271	SERVER	11/20/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	H94X2F1	GS-032	S009	7035	2007
2521272	SERVER	11/20/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	B94X2F1	GS-032	S009	7035	2007
2521273	SERVER	11/20/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	F94X2F1	GS-032	S009	7035	2007
2521274	SERVER	11/20/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	J94X2F1	GS-032	S009	7035	2007
2521275	SERVER	11/20/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	3B4X2F1	GS-032	S009	7035	2007

2521276	SERVER	11/20/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	5B4X2F1	GS-032	S009	7035	2007
2521277	SERVER	11/20/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	794X2F1	GS-032	S009	7035	2007
2521278	SERVER	11/20/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	43JH2F1	GS-032	S009	7035	2007
2521279	SERVER	11/20/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	H2JH2F1	GS-032	S009	7035	2007
2521280	SERVER	11/20/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	33JH2F1	GS-032	S009	7035	2007
2521281	SERVER	11/20/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	53JH2F1	GS-032	S009	7035	2007
2521282	SERVER	11/20/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	23JH2F1	GS-032	S009	7035	2007
2521283	SERVER	11/20/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	2B4X2F1	GS-032	S009	7035	2007
2521284	SERVER	11/20/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	C94X2F1	GS-032	S009	7035	2007
2548801	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	658VCD1	GS-032	S009	7021	2007
2548802	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	HSWY9D1	GS-032	S009	7021	2007
2548803	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	4TWY9D1	GS-032	S009	7021	2007
2548804	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	1TWY9D1	GS-032	S009	7021	2007
2548805	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	5TWY9D1	GS-032	S009	7021	2007
2548806	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	9TWY9D1	GS-032	S009	7021	2007
2548807	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	9SWY9D1	GS-032	S009	7021	2007
2548808	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	DSWY9D1	GS-032	S009	7021	2007
2548809	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	7SWY9D1	GS-032	S009	7021	2007
2548810	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	DY8Y9D1	GS-032	S009	7021	2007

2548811	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	CY8Y9D1	GS-032	S009	7021	2007
2548812	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	8Y8Y9D1	GS-032	S009	7021	2007
2548813	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	60X3BD1	GS-032	S009	7021	2007
2548814	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	D0X3BD1	GS-032	S009	7021	2007
2548815	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	90X3BD1	GS-032	S009	7021	2007
2548816	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	H0X3BD1	GS-032	S009	7021	2007
2548817	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	JYCZ9D1	GS-032	S009	7021	2007
2548818	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	27CZ9D1	GS-032	S009	7021	2007
2548819	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	3ZC9D1	GS-032	S009	7021	2007
2548820	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	4XWY9D1	GS-032	S009	7021	2007
2548821	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	4SWY9D1	GS-032	S009	7021	2007
2548822	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	5SWY9D1	GS-032	S009	7021	2007
2548823	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	ISWY9D1	GS-032	S009	7021	2007
2548824	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	JRWY9D1	GS-032	S009	7021	2007
2548825	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	6SLY9D1	GS-032	S009	7021	2007
2548826	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	9SLY9D1	GS-032	S009	7021	2007
2548827	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	7SLY9D1	GS-032	S009	7021	2007
2548828	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	2SLY9D1	GS-032	S009	7021	2007
2548829	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	4KK2BD1	GS-032	S009	7021	2007

2548830	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	2KK2BD1	GS-032	S009	7021	2007
2548831	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	BKK2BD1	GS-032	S009	7021	2007
2548832	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	8KK2BD1	GS-032	S009	7021	2007
2548833	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	HCC3BD1	GS-032	S009	7021	2007
2548834	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	DCC3BD1	GS-032	S009	7021	2007
2548835	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	9CC3BD1	GS-032	S009	7021	2007
2548836	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	5CC3BD1	GS-032	S009	7021	2007
2548837	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	BV5FBD1	GS-032	S009	7021	2007
2548838	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	5V5FBD1	GS-032	S009	7021	2007
2548839	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	GV5FBD1	GS-032	S009	7021	2007
2548840	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	DB5FBD1	GS-032	S009	7021	2007
2548841	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	BZCZ9D1	GS-032	S009	7021	2007
2548842	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	DZCZ9D1	GS-032	S009	7021	2007
2548843	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	597VCD1	GS-032	S009	7021	2007
2548844	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	797VCD1	GS-032	S009	7021	2007
2548845	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	CJT7GC1	GS-032	S009	7021	2007
2548846	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	3YW0BD1	GS-032	S009	7021	2007
2548847	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	F1D2BD1	GS-032	S009	7021	2007
2548848	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	HXW0BD1	GS-032	S009	7021	2007

2548849	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	2YW0BD1	GS-032	S009	7021	2007
2548850	COMPUTER MICRO	7/24/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	GXW0BD1	GS-032	S009	7021	2007
2548851	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	21LZ9D1	GS-032	S009	7021	2007
2548852	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	31LZ9D1	GS-032	S009	7021	2007
2548853	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	61LZ9D1	GS-032	S009	7021	2007
2548854	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	21LZ9D1	GS-032	S009	7021	2007
2548855	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	4Y8Y9D1	GS-032	S009	7021	2007
2548856	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	5Y8Y9D1	GS-032	S009	7021	2007
2548857	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	GX8Y9D1	GS-032	S009	7021	2007
2548858	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	2Y8Y9D1	GS-032	S009	7021	2007
2548859	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	6X8Y9D1	GS-032	S009	7021	2007
2548860	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	1X8Y9D1	GS-032	S009	7021	2007
2548861	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	5X8Y9D1	GS-032	S009	7021	2007
2548862	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	4X8Y9D1	GS-032	S009	7021	2007
2548863	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	BW8Y9D1	GS-032	S009	7021	2007
2548864	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	DW8Y9D1	GS-032	S009	7021	2007
2548865	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	CW8Y9D1	GS-032	S009	7021	2007
2548866	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	558VCD1	GS-032	S009	7021	2007
2548867	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	G633BD1	GS-032	S009	7021	2007

2548868	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	H663BD1	GS-032	S009	7021	2007
2548869	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	F663BD1	GS-032	S009	7021	2007
2548870	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	B663BD1	GS-032	S009	7021	2007
2548871	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	7DC3BD1	GS-032	S009	7021	2007
2548872	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	2DC3BD1	GS-032	S009	7021	2007
2548873	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	BDC3BD1	GS-032	S009	7021	2007
2548874	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	5DC3BD1	GS-032	S009	7021	2007
2548875	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	B1Q2BD1	GS-032	S009	7021	2007
2548876	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	60Q2BD1	GS-032	S009	7021	2007
2548877	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	G0Q2BD1	GS-032	S009	7021	2007
2548878	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	51Q0BD1	GS-032	S009	7021	2007
2548879	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	HBC3BD1	GS-032	S009	7021	2007
2548880	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	1CC3BD1	GS-032	S009	7021	2007
2548881	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	8VC3BD1	GS-032	S009	7021	2007
2548882	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	V1V2BD1	GS-032	S009	7021	2007
2548883	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	D1D28D1	GS-032	S009	7021	2007
2548884	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	91D28D1	GS-032	S009	7021	2007
2548885	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	C8C3BD1	GS-032	S009	7021	2007
2548886	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	FV8Y9D1	GS-032	S009	7021	2007
2548889	SERVER	3/23/2010	1C1X5	RAID INC	FALCON	14578-H	GS-032	S009	7035	2007

2548890	SERVER	3/23/2010	1C1X5	RAID INC	FALCON	14578-G	GS-032	S009	7035	2007
2548891	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	9XW0BD1	GS-032	S009	7021	2007
2548892	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	BXW0BD1	GS-032	S009	7021	2007
2548893	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	7XW0BD1	GS-032	S009	7021	2007
2548894	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	CZCZ9D1	GS-032	S009	7021	2007
2548895	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	397VCD1	GS-032	S009	7021	2007
2548896	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	FZCZ9D1	GS-032	S009	7021	2007
2548897	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	7684BD1	GS-032	S009	7021	2007
2548898	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	2684BD1	GS-032	S009	7021	2007
2548899	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	4684BD1	GS-032	S009	7021	2007
2548900	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	6684BD1	GS-032	S009	7021	2007
2548901	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	CXW0BD1	GS-032	S009	7021	2007
2548902	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	458VCD1	GS-032	S009	7021	2007
2548903	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	758VCD1	GS-032	S009	7021	2007
2548904	COMPUTER MICRO	7/27/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	7W8Y9D1	GS-032	S009	7021	2007
2548907	SERVER	3/23/2010	28480	HEWLETT-PACKARD CO	STORAGEWORKS	MZ3ELMPY81	GS-032	W030	7035	2007
2548908	SERVER	3/23/2010	28480	HEWLETT-PACKARD CO	STORAGEWORKS	M0W0LMPY85	GS-032	S009	7035	2007
2548909	SERVER	3/23/2010	28480	HEWLETT-PACKARD CO	STORAGEWORKS	M0VZLMPY85	GS-032	S009	7035	2007
2548910	SERVER	3/23/2010	28480	HEWLETT-PACKARD CO	STORAGEWORKS	MZ3HLMPY81	GS-032	S009	7035	2007
2548911	SERVER	3/23/2010	28480	HEWLETT-PACKARD CO	STORAGEWORKS	MHFPLMPY6K	GS-032	S009	7035	2007

2548912	SERVER	3/23/2010	28480	HEWLETT-PACKARD CO	STORAGEWORKS	MP39LMPY81	GS-032	S009	7035	2007
2548913	SERVER	3/23/2010	28480	HEWLETT-PACKARD CO	STORAGEWORKS	MZ38LMPY81	GS-032	S009	7035	2007
2548914	SERVER	3/23/2010	28480	HEWLETT-PACKARD CO	STORAGEWORKS	MZ36LMPY81	GS-032	S009	7035	2007
2548915	SERVER	3/23/2010	28480	HEWLETT-PACKARD CO	STORAGEWORKS	MZ3CLMPY81	GS-032	S009	7035	2007
2548916	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	GVVFH71	GS-032	S009	7035	2007
2548917	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	82YFH71	GS-032	S009	7035	2007
2548918	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	B2YFH71	GS-032	S009	7035	2007
2548919	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	G534C71	GS-032	S009	7035	2007
2548920	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	1634C71	GS-032	S009	7035	2007
2548921	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	D1YFH71	GS-032	S009	7035	2007
2548922	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	F534C71	GS-032	S009	7035	2007
2548923	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	8VVFH71	GS-032	S009	7035	2007
2548924	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	7VVFH71	GS-032	S009	7035	2007
2548925	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	BVVFH71	GS-032	S009	7035	2007
2548926	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	6BBFH71	GS-032	S009	7035	2007
2548927	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	3QGGH71	GS-032	S009	7035	2007
2548928	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	HPGGH71	GS-032	S009	7035	2007
2548929	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	9QGGH71	GS-032	S009	7035	2007
2548930	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	4QGGH71	GS-032	S009	7035	2007

2548931	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	8GJFH71	GS-032	S009	7035	2007
2548932	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	5GJFH71	GS-032	S009	7035	2007
2548933	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	DGJFH71	GS-032	S009	7035	2007
2548934	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	1GJFH71	GS-032	S009	7035	2007
2548935	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	CVVFH71	GS-032	S009	7035	2007
2548936	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	D2YFH71	GS-032	S009	7035	2007
2548937	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	HVVFH71	GS-032	S009	7035	2007
2548938	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	FVVFH71	GS-032	S009	7035	2007
2548939	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	G2YFH71	GS-032	S009	7035	2007
2548940	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	J2YFH71	GS-032	S009	7035	2007
2548941	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	H1YFH71	GS-032	S009	7035	2007
2548942	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	33YFH71	GS-032	S009	7035	2007
2548943	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	13YFH71	GS-032	S009	7035	2007
2548944	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	H534C71	GS-032	S009	7035	2007
2548945	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	3WBFH71	GS-032	S009	7035	2007
2548950	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	3634C71	GS-032	S009	7035	2007
2548951	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	2634C71	GS-032	S009	7035	2007
2548952	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	4634C71	GS-032	S009	7035	2007
2548953	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	B1YFH71	GS-032	S009	7035	2007

2548954	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	71YFH71	GS-032	S009	7035	2007
2548955	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	81YFH71	GS-032	S009	7035	2007
2548956	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	41YFH71	GS-032	S009	7035	2007
2548957	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	32YFH71	GS-032	S009	7035	2007
2548958	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	22YFH71	GS-032	S009	7035	2007
2548959	SERVER	5/18/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2850	62YFH71	GS-032	S009	7035	2007
2548960	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	89V9DF1	GS-032	S009	7035	2008
2548961	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	8RQDDF1	GS-032	S009	7035	2008
2548962	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	67RDDF1	GS-032	S009	7035	2008
2548963	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	G7RDDF1	GS-032	S009	7035	2008
2548964	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	5M96DF1	GS-032	S009	7035	2008
2548965	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	1M96DF1	GS-032	S009	7035	2008
2548966	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	F7RDDF1	GS-032	S009	7035	2008
2548967	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	J7RDDF1	GS-032	S009	7035	2008
2548968	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	3M96DF1	GS-032	S009	7035	2008
2548969	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	4M96DF1	GS-032	S009	7035	2008
2548970	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	8QJGDF1	GS-032	S009	7035	2008
2548971	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	2QJGDF1	GS-032	S009	7035	2008
2548972	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	5QJGDF1	GS-032	S009	7035	2008

2548973	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	9QJGDF1	GS-032	S009	7035	2008
2548974	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	3QJGDF1	GS-032	S009	7035	2008
2548975	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	4QJGDF1	GS-032	S009	7035	2008
2548976	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	CS6GDF1	GS-032	S009	7035	2008
2548977	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	FS6GDF1	GS-032	S009	7035	2008
2548978	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	BQJGDF1	GS-032	S009	7035	2008
2548979	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	7QJGDF1	GS-032	S009	7035	2008
2548980	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	GS6GDF1	GS-032	S009	7035	2008
2548981	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	1QJGDF1	GS-032	S009	7035	2008
2548982	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	CBV9DF1	GS-032	S009	7035	2008
2548983	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	4T6GDF1	GS-032	S009	7035	2008
2548984	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	6BV9DF1	GS-032	S009	7035	2008
2548985	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	8T6GDF1	GS-032	S009	7035	2008
2548986	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	67B6DF1	GS-032	S009	7035	2008
2548987	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	57B6DF1	GS-032	S009	7035	2008
2548988	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	FRQDDF1	GS-032	S009	7035	2008
2548989	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	47B6DF1	GS-032	S009	7035	2008
2548990	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	JS6GDF1	GS-032	S009	7035	2008
2548991	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	6M96DF1	GS-032	S009	7035	2008

2548992	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	3PJGDF1	GS-032	S009	7035	2008
2548993	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	1PJGDF1	GS-032	S009	7035	2008
2548994	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	DNJGDF1	GS-032	S009	7035	2008
2548995	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	69V9DF1	GS-032	S009	7035	2008
2548996	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	HNJGDF1	GS-032	S009	7035	2008
2548997	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	FNJGDF1	GS-032	S009	7035	2008
2548998	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	4RJGDF1	GS-032	S009	7035	2008
2548999	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	2PJGDF1	GS-032	S009	7035	2008
2549000	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	CNJGDF1	GS-032	S009	7035	2008
2549001	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	JNJGDF1	GS-032	S009	7035	2008
2549002	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	GNJGDF1	GS-032	S009	7035	2008
2549003	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	G9V9DF1	GS-032	S009	7035	2008
2549004	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	F9V9DF1	GS-032	S009	7035	2008
2549005	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	DS6GDF1	GS-032	S009	7035	2008
2549006	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	756GDF1	GS-032	S009	7035	2008
2549007	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	17B6DF1	GS-032	S009	7035	2008
2549008	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	97RDDF1	GS-032	S009	7035	2008
2549009	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	H9V9DF1	GS-032	S009	7035	2008
2549010	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	C9V9DF1	GS-032	S009	7035	2008

2549011	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	B9V9DF1	GS-032	S009	7035	2008
2549012	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	2T6GDF1	GS-032	S009	7035	2008
2549013	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	6S6GDF1	GS-032	S009	7035	2008
2549014	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	D9V9DF1	GS-032	S009	7035	2008
2549015	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	HS6GDF1	GS-032	S009	7035	2008
2549016	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	6QJGDF1	GS-032	S009	7035	2008
2549017	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	B7RDDF1	GS-032	S009	7035	2008
2549018	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	8S6GDF1	GS-032	S009	7035	2008
2549019	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	79V9DF1	GS-032	S009	7035	2008
2549020	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	8XQDDF1	GS-032	S009	7035	2008
2549021	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	9XQDDF1	GS-032	S009	7035	2008
2549022	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	DXQDDF1	GS-032	S009	7035	2008
2549023	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	2YQDDF1	GS-032	S009	7035	2008
2549024	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	FXQDDF1	GS-032	S009	7035	2008
2549025	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	3YQDDF1	GS-032	S009	7035	2008
2549026	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	BRQDDF1	GS-032	S009	7035	2008
2549027	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	HRQDDF1	GS-032	S009	7035	2008
2549028	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	9RQDDF1	GS-032	S009	7035	2008
2549029	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	2SQDDF1	GS-032	S009	7035	2008

2549030	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	9RQDDF1	GS-032	S009	7035	2008
2549031	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	7RQDDF1	GS-032	S009	7035	2008
2549032	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	1SQDDF1	GS-032	S009	7035	2008
2549033	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	SRQDDF1	GS-032	S009	7035	2008
2549034	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	JXQDDF1	GS-032	S009	7035	2008
2549035	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	99V9DF1	GS-032	S009	7035	2008
2549036	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	CXQDDF1	GS-032	S009	7035	2008
2549037	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	HXQDDF1	GS-032	S009	7035	2008
2549038	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	1YQDDF1	GS-032	S009	7035	2008
2549039	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	77B6DF1	GS-032	S009	7035	2008
2549040	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	9BV9DF1	GS-032	S009	7035	2008
2549041	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	3BV9DF1	GS-032	S009	7035	2008
2549042	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	BBV9DF1	GS-032	S009	7035	2008
2549043	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	2BV9DF1	GS-032	S009	7035	2008
2549044	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	4BV9DF1	GS-032	S009	7035	2008
2549045	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	5BV9DF1	GS-032	S009	7035	2008
2549046	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	7BV9DF1	GS-032	S009	7035	2008
2549047	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	8BV9DF1	GS-032	S009	7035	2008
2549048	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	H79DDF1	GS-032	S009	7035	2008

2549049	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	87RDDF1	GS-032	S009	7035	2008
2549050	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	BT69DF1	GS-032	S009	7035	2008
2549051	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	6T6GDF1	GS-032	S009	7035	2008
2549052	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	9T6GDF1	GS-032	S009	7035	2008
2549053	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	7T6GDF1	GS-032	S009	7035	2008
2549054	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	3T6GDF1	GS-032	S009	7035	2008
2549055	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	1T6GDF1	GS-032	S009	7035	2008
2549056	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	77RDDF1	GS-032	S009	7035	2008
2549057	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	9S6GDF1	GS-032	S009	7035	2008
2549058	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	D7RDDF1	GS-032	S009	7035	2008
2549059	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	B56GDF1	GS-032	S009	7035	2008
2549060	DISK ARRAY	3/10/2008	28480	HEWLETT-PACKARD CO	NONE	MD8JLMPX9H	GS-032	S009	7025	2008
2549061	DISK ARRAY	3/10/2008	28480	HEWLETT-PACKARD CO	NONE	MESRLMPX9L	GS-032	S009	7025	2008
2549062	DISK ARRAY	3/10/2008	28480	HEWLETT-PACKARD CO	NONE	MD8MLMPX9H	GS-032	S009	7025	2008
2549063	DISK ARRAY	3/10/2008	28480	HEWLETT-PACKARD CO	NONE	MB63LMPX99	GS-032	S009	7025	2008
2549064	DISK ARRAY	3/10/2008	28480	HEWLETT-PACKARD CO	NONE	MCW1LMPX9H	GS-032	S009	7025	2008
2549065	DISK ARRAY	3/10/2008	28480	HEWLETT-PACKARD CO	NONE	MDSALMPX9K	GS-032	S009	7025	2008
2549066	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	3NNMDF1	GS-032	S009	7035	2008
2549067	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	4NNMDF1	GS-032	S009	7035	2008

2549068	SERVER	1/14/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWER EDGE 2950	6NNMDF1	GS-032	S009	7035	2008
2549082	SERVER	12/30/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	221-6529	4199F61	GS-032	C101	7035	2004
2549083	DISPLAY UNIT	3/21/2006	28480	HEWLETT-PACKARD CO	P9614A8#AB	CNG550048M	GS-032	N126E	7025	2006
2549087	SERVER	1/17/2006	28480	HEWLETT-PACKARD CO	848172	CNU5520DML	GS-032	C101	7035	2006
2549088	SWITCHING UNIT	6/11/2002	7Y604	STORAGETEK INTERGRATED SYSTEMS	SNFCS50-0000	9.03005E+11	GS-032	C101	5805	2002
2549089	SWITCH ETHERNET	12/9/2002	0GX96	CISCO SYSTEMS INC	WS-C3550-12G	CHK0638V0Y7	GS-032	C101	5895	2002
2549090	SWITCH ETHERNET	12/9/2002	0GX96	CISCO SYSTEMS INC	WS-C3550-12G	CHK0636V00V	GS-032	C101	5895	2002
2549091	SERVER	2/22/2000	2W902	DTI CO	BC12003-5001	20340328	GS-032	C101	7035	2000
2549092	SWITCHING UNIT	11/18/2005	0GX96	CISCO SYSTEMS INC	WSC6506ES3	SAL09358SQ	GS-032	C101	5805	2005
2549093	APPLIANCE INTERNET SECURITY	1/25/2008	0GX96	CISCO SYSTEMS INC	ASA5550	JMX1125L1DM	GS-032	C101	7035	2007
2549094	APPLIANCE INTERNET SECURITY	1/25/2008	0GX96	CISCO SYSTEMS INC	ASA5550	JMX1125L0Z5	GS-032	C101	7035	2007
2549095	SERVER	9/10/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	220-8593	3Q7WT11	GS-032	C101	7035	2002
2549096	SWITCHING UNIT	9/10/2004	7Y604	STORAGETEK INTERGRATED SYSTEMS	SNFCS65	9.03007E+11	GS-032	C101	5805	2004
2549102	DISK ARRAY	6/18/2002	7Y604	STORAGETEK INTERGRATED SYSTEMS	9170-0010	4.86E+11	GS-032	C101	7025	2002
2549103	DISK ARRAY	6/18/2002	7Y604	STORAGETEK INTERGRATED SYSTEMS	9170-0010	4.86E+11	GS-032	C101	7025	2002
2549104	DISK ARRAY	6/18/2002	7Y604	STORAGETEK INTERGRATED SYSTEMS	9170-0010	4.86E+11	GS-032	C101	7025	2002
2549105	DISK ARRAY	6/18/2002	7Y604	STORAGETEK INTERGRATED SYSTEMS	9170-0010	4.86E+11	GS-032	C101	7025	2002
2549106	DISK ARRAY	6/18/2002	7Y604	STORAGETEK INTERGRATED SYSTEMS	9170-0010	4.86E+11	GS-032	C101	7025	2002

2549107	DISK ARRAY	6/18/2002	7Y604	STORAGETEK INTERGRATED SYSTEMS	9170-0010	4.86E+11	GS-032	C101	7025	2002
2549108	DISK ARRAY	6/18/2002	7Y604	STORAGETEK INTERGRATED SYSTEMS	9170-0010	4.86E+11	GS-032	C101	7025	2002
2549109	DISK ARRAY	6/18/2002	7Y604	STORAGETEK INTERGRATED SYSTEMS	9170-0010	4.86E+11	GS-032	C101	7025	2002
2549110	DISK ARRAY	6/18/2002	7Y604	STORAGETEK INTERGRATED SYSTEMS	9170-0010	4.86E+11	GS-032	C101	7025	2002
2549111	DISK ARRAY	6/18/2002	7Y604	STORAGETEK INTERGRATED SYSTEMS	9170-0010	4.86E+12	GS-032	C101	7025	2002
2549112	DISK ARRAY	4/15/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D178002-L03R	4.87E+11	GS-032	C101	7025	2003
2549113	DISK ARRAY	4/15/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	9170014-0000	4.86E+11	GS-032	C101	7025	2003
2549114	DISK ARRAY	4/15/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	9170014-0000	4.86E+11	GS-032	C101	7025	2003
2549115	DISK ARRAY	4/15/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	9170014-0000	4.86E+11	GS-032	C101	7025	2003
2549116	DISK ARRAY	4/15/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	9170014-0000	4.86E+11	GS-032	C101	7025	2003
2549117	DISK ARRAY	10/9/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D2000014-0000	4.86E+11	GS-032	C101	7025	2003
2549118	DISK ARRAY	10/9/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D2000014-0000	4.86E+11	GS-032	C101	7025	2003
2549119	DISK ARRAY	10/9/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003

2549120	DISK ARRAY	10/9/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549121	DISK ARRAY	10/9/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549122	DISK ARRAY	10/9/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549123	DISK ARRAY	10/9/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549124	DISK ARRAY	10/9/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549125	DISK ARRAY	10/9/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549126	DISK ARRAY	10/9/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549127	DISK ARRAY	10/9/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549128	DISK ARRAY	9/4/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549129	DISK ARRAY	9/4/2009	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549130	DISK ARRAY	9/5/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549131	DISK ARRAY	9/5/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.83E+11	GS-032	C101	7025	2003
2549132	DISK ARRAY	9/4/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.83E+11	GS-032	C101	7025	2003

2549133	DISK ARRAY	9/1/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549134	DISK ARRAY	9/5/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549135	DISK ARRAY	9/4/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549136	DISK ARRAY	9/5/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549137	DISK ARRAY	9/4/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549138	DISK ARRAY	9/4/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549139	DISK ARRAY	9/4/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549140	DISK ARRAY	9/4/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549141	DISK ARRAY	9/4/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549142	DISK ARRAY	9/4/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549143	DISK ARRAY	9/4/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549144	DISK ARRAY	9/4/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549145	DISK ARRAY	9/4/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003

2549146	DISK ARRAY	9/4/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549147	DISK ARRAY	9/4/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549148	DISK ARRAY	9/4/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549149	DISK ARRAY	9/4/2003	7Y604	STORAGETEK INTERGRATED SYSTEMS	D200014-0000	4.86E+11	GS-032	C101	7025	2003
2549150	DISK ARRAY	9/20/2002	7Y604	STORAGETEK INTERGRATED SYSTEMS	9170014	4.86E+11	GS-032	C101	7025	2002
2549151	DISK ARRAY	9/20/2002	7Y604	STORAGETEK INTERGRATED SYSTEMS	9170014	4.86E+11	GS-032	C101	7025	2002
2549152	COMPUTER MICRO	6/30/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	220-8593	G1FRS71	GS-032	C101	7021	2005
2549156	PRINTER ADP LASER	6/9/1995	28480	HEWLETT-PACKARD CO	C2039A	JPGK136506	GS-032	N126F	7025	1995
2549157	PRINTER ADP LASER	3/11/1996	28480	HEWLETT-PACKARD CO	C2039A	JPCGF02687	GS-032	181A-1	7025	1996
2549686	DISK ARRAY	7/16/2008	MPAK1	MPAK	FW347G	V4S000A08080000	GS-032	S009	7025	2008
2549688	DISK ARRAY	7/16/2008	MPAK1	MPAK	FW347G	V4S000A08080000	GS-032	S009	7025	2008
2549689	DISK ARRAY	7/16/2008	MPAK1	MPAK	FW347G	V4S000A08080000	GS-032	S009	7025	2008
2549690	DISK ARRAY	7/16/2008	MPAK1	MPAK	FW347G	V4S000A08080000	GS-032	S009	7025	2008
2549691	DISK ARRAY	7/16/2008	MPAK1	MPAK	FW347G	V4S000A08080000	GS-032	S009	7025	2008
2549692	DISK ARRAY	9/4/2008	MPAK1	MPAK	FW347G	V4S000A08080000	GS-032	S009	7025	2008
2549693	DISK ARRAY	7/16/2008	MPAK1	MPAK	FW347G	V4S000A08080000	GS-032	S009	7025	2008
2549695	DISK ARRAY	8/26/2008	28480	HEWLETT-PACKARD CO	MSA30	MHT2LMPXB5	GS-032	S009	7025	2008
2549696	DISK ARRAY	8/26/2008	28480	HEWLETT-PACKARD CO	MSA30	MJG9LMPXB7	GS-032	S009	7025	2008
2549697	DISK ARRAY	8/26/2008	28480	HEWLETT-PACKARD CO	MSA30	MHSHLMPXB5	GS-032	S009	7025	2008
2549709	COMPUTER LAPTOP	8/8/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	PPO4X	IN341-48643-84FC	GS-007	142	7021	2008

2549912	SERVER	11/21/2008	28480	HEWLETT-PACKARD CO	DL365	USM73003PY	GS-032	C101	7035	2007
2550068	SERVER	3/23/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	POWEREDGE 2950	39SK3H1	GS-032	S009	7035	2007
2550247	COMPUTER SERVER	9/5/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	EMS01	J4CSH1	GS-034	C184	7021	2008
2550274	SERVER	9/15/2008	28480	HEWLETT-PACKARD CO	HP DL185	2UX829017A	GS-028	N136	7035	2008
2550275	SERVER	9/15/2008	28480	HEWLETT-PACKARD CO	HP DL185	SGA835005D	GS-028	N136	7035	2008
2550315	SERVER	9/17/2008	58839	APPLE COMPUTER INC	A1246	G8837062X86	GS-034	C184	7035	2008
2550480	COMPUTER LAPTOP	8/21/2009	58839	APPLE COMPUTER INC	A1286	W893407964C	GS-034	E338	7021	2009
2550620	DISK ARRAY	10/6/2008	MPAK1	MPAK	Z2400	V4S000A07470000	GS-032	S009	7025	2008
2550622	DISK ARRAY	10/6/2008	MPAK1	MPAK	Z2400	V4S000A07470000	GS-032	S009	7025	2008
2550623	DISK ARRAY	10/6/2008	MPAK1	MPAK	Z2400	V4S000A07470000	GS-032	S009	7025	2008
2550624	DISK ARRAY	10/6/2008	MPAK1	MPAK	Z2400	V4S000A07470000	GS-032	S009	7025	2008
2550625	DISK ARRAY	10/6/2008	MPAK1	MPAK	Z2400	V4S000A07470000	GS-032	S009	7025	2008
2550626	DISK ARRAY	10/6/2008	MPAK1	MPAK	Z2400	V4S000A07470000	GS-032	S009	7025	2008
2550627	DISK ARRAY	10/6/2008	MPAK1	MPAK	Z2400	V4S000A07470000	GS-032	S009	7025	2008
2550628	DISK ARRAY	10/6/2008	MPAK1	MPAK	Z2400	V4S000A07470000	GS-032	S009	7025	2008
2550629	DISK ARRAY	10/6/2008	MPAK1	MPAK	Z2400	V4S000A07470000	GS-032	S009	7025	2008
2550630	DISK ARRAY	10/6/2008	MPAK1	MPAK	Z2400	WS000A07470000	GS-032	S009	7025	2008
2550631	DISK ARRAY	10/6/2008	MPAK1	MPAK	Z2400	V4S000A07470000	GS-032	S009	7025	2008
2550632	DISK ARRAY	10/6/2008	MPAK1	MPAK	Z2400	V4S000A07470000	GS-032	S009	7025	2008
2550633	DISK ARRAY	10/6/2008	MPAK1	MPAK	Z2400	V4S000A07470000	GS-032	S009	7025	2008
2550634	DISK ARRAY	10/6/2008	MPAK1	MPAK	Z2400	V4S000A07470000	GS-032	S009	7025	2008
2550635	DISK ARRAY	10/6/2008	MPAK1	MPAK	Z2400	V4S000A07470000	GS-032	S009	7025	2008
2550636	DISK ARRAY	10/6/2008	MPAK1	MPAK	Z2400	V4S000A07470000	GS-032	S009	7025	2008
2550637	DISK ARRAY	1/13/2009	1C1X5	RAID INC	NONE	14578-K	GS-032	S009	7025	2008
2550638	DISK ARRAY	1/13/2009	1C1X5	RAID INC	NONE	14578-M	GS-032	S009	7025	2008
2550639	DISK ARRAY	1/13/2009	1C1X5	RAID INC	NONE	14578-N	GS-032	S009	7025	2008
2550640	DISK ARRAY	1/13/2009	1C1X5	RAID INC	NONE	14578-D	GS-032	S009	7025	2008
2550641	DISK ARRAY	1/13/2009	9X917	WESTERN SCIENTIFIC INC	FUSION X4	12005664	GS-032	S009	7025	2005

2550642	DISK ARRAY	1/13/2009	9X917	WESTERN SCIENTIFIC INC	FUSION X4	NONE	GS-032	S009	7025	2005
2550643	DISK ARRAY	1/13/2009	9X917	WESTERN SCIENTIFIC INC	FUSION X4	12005665	GS-032	S009	7025	2005
2550644	DISK ARRAY	1/13/2009	9X917	WESTERN SCIENTIFIC INC	FUSION X4	12005663	GS-032	S009	7025	2005
2550645	DISK ARRAY	1/13/2009	1C1X5	RAID INC	NONE	14578-L	GS-032	S009	7025	2008
2550646	DISK ARRAY	2/26/2009	MPAK1	MPAK	NONE	V4S000A07460000	GS-032	S009	7025	2008
2550647	DISK ARRAY	1/13/2009	1C1X5	RAID INC	NONE	L7529-MODPDRRF2	GS-032	S009	7025	2008
2550648	DISK ARRAY	1/13/2009	1C1X5	RAID INC	NONE	L7529-MODPDRRF1	GS-032	S009	7025	2008
2550649	DISK ARRAY	1/13/2009	1C1X5	RAID INC	NONE	14578-C	GS-032	S009	7025	2008
2550650	DISK ARRAY	10/8/2008	MPAK1	MPAK	NONE	V4S000A07460000	GS-032	S009	7025	2008
2550651	DISK ARRAY	10/6/2008	MPAK1	MPAK	NONE	W4S00074700001	GS-032	S009	7025	2008
2550652	DISK ARRAY	1/13/2009	1C1X5	RAID INC	NONE	14578-F	GS-032	S009	7025	2008
2550653	DISK ARRAY	10/8/2008	MPAK1	MPAK	NONE	4S000A07460000	GS-032	S009	7025	2008
2550654	DISK ARRAY	1/13/2009	1C1X5	RAID INC	NONE	14578-J	GS-032	S009	7025	2008
2550655	COMPUTER MICRO	5/6/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	SCL	J3G7S01	GS-032	S009	7021	2006
2550701	CAMERA VIDEO	2/11/2009	S5175	PANASONIC	AG-HVX200AP	H8TC00010	GS-033	D012	5836	2009
2550728	SERVER	1/12/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	IMP	285N411	GS-032	C101	7035	2002
2550796	COMPUTER MICRO MINI	4/7/2009	58839	APPLE COMPUTER INC	A1283	TM9140ES1BV	GS-HOME	#	7021	2009
2550976	COMPUTER SERVER	7/10/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMT	7RZQJK1	GS-032	S09	7021	2009
2551016	TRANSPORT MAGNETIC TAPE	8/3/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	AMP01	1BV1SK1	GS-034	C184	7025	2009
2551017	TRANSPORT MAGNETIC TAPE	8/3/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	AMP01	H9V1SK1	GS-034	C184	7025	2009
2551138	COMPUTER MICRO MINI	6/15/2009	58839	APPLE COMPUTER INC	A1283	YM9046AN194	GS-007	142	7021	2009
2551140	COMPUTER LAPTOP	7/1/2009	1TGZ3	ALIENWARE CORP	M5700IR2	SA69N7D29047	GS-007	142	7021	2007
2551158	COMPUTER LAPTOP	7/18/2009	28480	HEWLETT-PACKARD CO	D40	CNU926446K	GS-034	S181	7021	2009
2551258	DISPLAY UNIT	9/10/2009	0V618	VIEWSONIC CORP/ DIV KEYPOINT	VLCDS24020-3W	A1X041700756	GS-007	N100	7025	2004
2551291	COMPUTER LAPTOP	8/18/2009	58839	APPLE COMPUTER INC	A1278	W89315W566E	GS-034	E109	7021	2009

2551484	CAMERA	10/7/2009	56472	SONY CORP OF AMERICA	EVI-HD1	107443	GS-088	A101	6720	2009
2551541	COMPUTER SERVER	10/21/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	E02S	85ML0L1	GS-028	N136	7021	2009
2551542	COMPUTER SERVER	10/21/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	E02S	75ML0L1	GS-028	N134A	7021	2009
2551549	COMPUTER SERVER	10/22/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	E02S	21K20L1	GS-028	N136	7021	2009
2551601	SWITCH MULTIPOINT	7/7/2003	1G5W1	EXTREME NETWORKS	6816-53011	01435-00296	GS-032	S009	5895	2003
2551674	DISK ARRAY	1/19/2010	NEXSA	NEXSAN TECHNOLOGIES	GIF/422000HFRG	8002376	GS-021	C023	7025	2009
2551715	COMPUTER LAPTOP	2/22/2010	58839	APPLE COMPUTER INC	A1278	W80061RP66J	GS-034	E109	7021	2010
2551781	COMPUTER SERVER	4/16/2010	28480	HEWLETT-PACKARD CO	HS TWS-1031	2UX952025U	GS-023	C236A	7021	2010
2551798	COMPUTER SERVER	4/23/2010	28480	HEWLETT-PACKARD CO	HSTNS-3179	MX2007000N	GS-023	C236A	7021	2010
2551799	COMPUTER SERVER	4/23/2010	28480	HEWLETT-PACKARD CO	HSTNS-3179	MX201200ZY	GS-023	C236A	7021	2010
2551963	SERVER	11/4/2009	58839	APPLE COMPUTER INC	A1279	H09431BK6HS	GS-033	H111A	7035	2009
2552051	SERVER	9/17/2009	1VAN8	PADOVA TECHNOLOGIES INC	PDV-1403	S104969	GS-032	S009	7035	2009
2552052	SERVER	9/17/2009	1VAN8	PADOVA TECHNOLOGIES INC	PDV-1403	S104977	GS-032	S009	7035	2009
2552053	SERVER	9/17/2009	1VAN8	PADOVA TECHNOLOGIES INC	PDV-1403	S104976	GS-032	S009	7035	2009
2552054	SERVER	9/17/2009	1VAN8	PADOVA TECHNOLOGIES INC	PDV-1403	S104975	GS-032	S009	7035	2009
2552055	SERVER	9/17/2009	1VAN8	PADOVA TECHNOLOGIES INC	PDV-1403	S104974	GS-032	S009	7035	2009
2552056	SERVER	9/17/2009	1VAN8	PADOVA TECHNOLOGIES INC	PDV-1403	S104973	GS-032	S009	7035	2009
2552057	SERVER	9/17/2009	1VAN8	PADOVA TECHNOLOGIES INC	PDV-1403	S104972	GS-032	S009	7035	2009
2552058	SERVER	9/17/2009	1VAN8	PADOVA TECHNOLOGIES INC	PDV-1403	S104971	GS-032	S009	7035	2009
2552059	SERVER	9/17/2009	1VAN8	PADOVA TECHNOLOGIES INC	PDV-1403	S104970	GS-032	S009	7035	2009

2552060	SERVER	9/17/2009	1VAN8	PADOVA TECHNOLOGIES INC	PDV-1402	S104980	GS-032	S009	7035	2009
2552111	RAID XANADU CONTROLLER	9/17/2009	1C1X5	RAID INC	120TB	20082-1	GS-032	S009	7025	2009
2552112	RAID XANADU CONTROLLER	9/17/2009	1C1X5	RAID INC	120TB	20082-0	GS-032	S009	7025	2009
2552113	DISK ARRAY	9/17/2009	1C1X5	RAID INC	96TB	20082-2	GS-032	S009	7025	2009
2552114	DISK ARRAY	9/17/2009	1C1X5	RAID INC	96TB	20082-3	GS-032	S009	7025	2009
2552115	DISK ARRAY	9/17/2009	1C1X5	RAID INC	96TB	20082-4	GS-032	S009	7025	2009
2552116	DISK ARRAY	9/17/2009	1C1X5	RAID INC	96TB	20082-5	GS-032	S009	7025	2009
2552117	DISK ARRAY	9/17/2009	1C1X5	RAID INC	96TB	20082-6	GS-032	S009	7025	2009
2552118	DISK ARRAY	9/17/2009	1C1X5	RAID INC	96TB	20082-7	GS-032	S009	7025	2009
2552119	DISK ARRAY	9/17/2009	1C1X5	RAID INC	96TB	20082-8	GS-032	S009	7025	2009
2552120	DISK ARRAY	9/17/2009	1C1X5	RAID INC	96TB	20082-9	GS-032	S009	7025	2009
2552121	DISK ARRAY	9/17/2009	1C1X5	RAID INC	96TB	20082-10	GS-032	S009	7025	2009
2552122	DISK ARRAY	9/17/2009	1C1X5	RAID INC	96TB	20082-11	GS-032	S009	7025	2009
2552123	DISK ARRAY	9/17/2009	1C1X5	RAID INC	96TB	20082-12	GS-032	S009	7025	2009
2552124	DISK ARRAY	9/17/2009	1C1X5	RAID INC	96TB	20082-13	GS-032	S009	7025	2009
2552125	DISK ARRAY	9/17/2009	1C1X5	RAID INC	96TB	20082-14	GS-032	S009	7025	2009
2552126	DISK ARRAY	9/17/2009	1C1X5	RAID INC	96TB	20082-15	GS-032	S009	7025	2009
2552127	DISK ARRAY	9/17/2009	1C1X5	RAID INC	96TB	20082-16	GS-032	S009	7025	2009
2552128	DISK ARRAY	9/17/2009	1C1X5	RAID INC	96TB	20082-17	GS-032	S009	7025	2009
2552129	DISK ARRAY	9/17/2009	1C1X5	RAID INC	96TB	20082-18	GS-032	S009	7025	2009
2552130	DISK ARRAY	9/17/2009	1C1X5	RAID INC	96TB	20082-19	GS-032	S009	7025	2009
2552131	DISK ARRAY	9/17/2009	1C1X5	RAID INC	96TB	20082-20	GS-032	S009	7025	2009
2552132	SERVER	9/17/2009	1VAN8	PADOVA TECHNOLOGIES INC	PDV-1401	S104978	GS-032	S009	7035	2009
2552133	DISK ARRAY	8/27/2009	1C1X5	RAID INC	24TB	20052-H	GS-032	S009	7025	2009
2552134	DISK ARRAY	8/27/2009	1C1X5	RAID INC	24TB	20052-K	GS-032	S009	7025	2009
2552135	DISK ARRAY	8/27/2009	1C1X5	RAID INC	24TB	20052-F	GS-032	S009	7025	2009
2552136	DISK ARRAY	8/27/2009	1C1X5	RAID INC	24TB	20052-I	GS-032	S009	7025	2009
2552137	DISK ARRAY	8/27/2009	1C1X5	RAID INC	24TB	20052-G	GS-032	S009	7025	2009
2552138	DISK ARRAY	8/27/2009	1C1X5	RAID INC	24TB	20052-J	GS-032	S009	7025	2009
2552139	DISK ARRAY	8/27/2009	1C1X5	RAID INC	24TB	20052-E	GS-032	S009	7025	2009
2552140	DISK ARRAY	8/27/2009	1C1X5	RAID INC	24TB	20052-D	GS-032	S009	7025	2009
2552141	DISK ARRAY	8/27/2009	1C1X5	RAID INC	24TB	20052-B	GS-032	S009	7025	2009

2552142	DISK ARRAY	8/27/2009	1C1X5	RAID INC	24TB	20052-A	GS-032	S009	7025	2009
2552143	DISK ARRAY	8/27/2009	1C1X5	RAID INC	24TB	20052-C	GS-032	S009	7025	2009
2552144	RAID XANDAU CONTROLLER	9/16/2009	1C1X5	RAID INC	120TB	20082-28	GS-032	S009	7025	2009
2552145	DISK ARRAY	9/16/2009	1C1X5	RAID INC	96TB	20082-21	GS-032	S009	7025	2009
2552146	DISK ARRAY	9/16/2009	1C1X5	RAID INC	96TB	20082-22	GS-032	S009	7025	2009
2552147	DISK ARRAY	9/16/2009	1C1X5	RAID INC	96TB	20082-23	GS-032	S009	7025	2009
2552148	DISK ARRAY	9/16/2009	1C1X5	RAID INC	96TB	20082-24	GS-032	S009	7025	2009
2552149	DISK ARRAY	9/16/2009	1C1X5	RAID INC	96TB	20082-25	GS-032	S009	7025	2009
2552150	DISK ARRAY	9/16/2009	1C1X5	RAID INC	96TB	20082-26	GS-032	S009	7025	2009
2552268	SWITCHING UNIT	2/2/2009	FOR10	FORCE 10 NETWORKS	S2410-01-10GE-24P	FX000041348	GS-028	W277	5805	2009
2552278	COMPUTER LAPTOP	3/3/2010	58839	APPLE COMPUTER INC	A1278	W894956T66E	GS-034	E109	7021	2009
2552467	DISK ARRAY	5/21/2008	MPAK1	MPAK	Z2400	W4S000A07470000	GS-032	S009	7025	2008
2552468	DISK ARRAY	8/21/2008	MPAK1	MPAK	Z2400	W4S000A07470000	GS-032	S009	7025	2008
2552469	DISK ARRAY	8/21/2008	MPAK1	MPAK	Z2400	W4S000A74800001	GS-032	S009	7025	2008
2552470	DISK ARRAY	8/21/2008	MPAK1	MPAK	Z2400	W4S000A74700002	GS-032	S009	7025	2008
2552471	DISK ARRAY	8/21/2008	MPAK1	MPAK	Z2400	W4S000A07470000	GS-032	S009	7025	2008
2552472	DISK ARRAY	8/21/2008	MPAK1	MPAK	Z2400	W4S000A07470000	GS-032	S009	7025	2008
2552473	DISK ARRAY	8/21/2008	MPAK1	MPAK	Z2400	W4S000A07480000	GS-032	S009	7025	2008
2552474	DISK ARRAY	8/21/2008	MPAK1	MPAK	Z2400	W4S000A74700003	GS-032	S009	7025	2008
2552495	DISK ARRAY	3/23/2009	1C1X5	RAID INC	Z2400	195328	GS-032	S009	7025	2009
2552496	DISK ARRAY	3/23/2009	1C1X5	RAID INC	Z2400	19532-I	GS-032	S009	7025	2009
2552497	DISK ARRAY	3/23/2009	1C1X5	RAID INC	Z2400	19532-E	GS-032	S009	7025	2009
2552498	DISK ARRAY	3/23/2009	1C1X5	RAID INC	Z2400	19532-H	GS-032	S009	7025	2009
2552499	DISK ARRAY	3/23/2009	1C1X5	RAID INC	Z2400	19532-C	GS-032	S009	7025	2009
2552500	DISK ARRAY	3/23/2009	1C1X5	RAID INC	Z2400	19532-D	GS-032	S009	7025	2009
2552501	DISK ARRAY	3/23/2009	1C1X5	RAID INC	Z2400	19532-G	GS-032	S009	7025	2009
2552502	DISK ARRAY	3/23/2009	1C1X5	RAID INC	Z2400	19532-J	GS-032	S009	7025	2009
2552503	DISK ARRAY	3/23/2009	1C1X5	RAID INC	Z2400	19532-F	GS-032	S009	7025	2009
2552504	DISK ARRAY	7/24/2008	1C1X5	RAID INC	EBOD	137373	GS-032	S009	7025	2008
2552505	DISK ARRAY	7/24/2008	1C1X5	RAID INC	EBOD	137372	GS-032	S009	7025	2008
2552506	DISK ARRAY	7/24/2008	1C1X5	RAID INC	EBOD	137371	GS-032	S009	7025	2008
2552507	DISK ARRAY	7/24/2008	1C1X5	RAID INC	EBOD	137375	GS-032	S009	7025	2008
2552508	DISK ARRAY	7/24/2008	1C1X5	RAID INC	EBOD	138266	GS-032	S009	7025	2008

2552509	DISK ARRAY	7/24/2008	1C1X5	RAID INC	EBOD	137368	GS-032	S009	7025	2008
2552510	DISK ARRAY	7/24/2008	1C1X5	RAID INC	EBOD	138262	GS-032	S009	7025	2008
2552511	DISK ARRAY	7/24/2008	1C1X5	RAID INC	EBOD	137367	GS-032	S009	7025	2008
2552512	DISK ARRAY	7/24/2008	1C1X5	RAID INC	EBOD	137366	GS-032	S009	7025	2008
2552513	DISK ARRAY	7/24/2008	1C1X5	RAID INC	EBOD	137479	GS-032	S009	7025	2008
2552514	DISK ARRAY	7/24/2008	1C1X5	RAID INC	EBOD	137363	GS-032	S009	7025	2008
2552515	DISK ARRAY	7/24/2008	1C1X5	RAID INC	EBOD	137370	GS-032	S009	7025	2008
2552516	DISK ARRAY	7/24/2008	1C1X5	RAID INC	EBOD	137376	GS-032	S009	7025	2008
2552517	DISK ARRAY	7/24/2008	1C1X5	RAID INC	EBOD	137364	GS-032	S009	7025	2008
2552518	DISK ARRAY	7/24/2008	1C1X5	RAID INC	EBOD	138478	GS-032	S009	7025	2008
2552519	DISK ARRAY	7/24/2008	1C1X5	RAID INC	EBOD	137365	GS-032	S009	7025	2008
2552520	DISK ARRAY	7/24/2008	1C1X5	RAID INC	EBOD	138263	GS-032	S009	7025	2008
2552521	DISK ARRAY	7/24/2008	1C1X5	RAID INC	EBOD	137377	GS-032	S009	7025	2008
2552522	DISK ARRAY	7/24/2008	1C1X5	RAID INC	EBOD	138265	GS-032	S009	7025	2008
2552523	DISK ARRAY	7/24/2008	1C1X5	RAID INC	EBOD	138264	GS-032	S009	7025	2008
2552524	DISK ARRAY	7/24/2008	1C1X5	RAID INC	EBOD	137369	GS-032	S009	7025	2008
2552551	DISK ARRAY	7/24/2008	1C1X5	RAID INC	EBOD	137374	GS-032	S009	7025	2008
2552552	DISK ARRAY	3/23/2009	1C1X5	RAID INC	Z2400	19532-B	GS-032	S009	7025	2009
2552590	COMPUTER LAPTOP	6/19/2010	58839	APPLE COMPUTER INC	A1342	W80214AYF5X	GS-021	191	7021	2010
2552594	COMPUTER LAPTOP	7/1/2010	58839	APPLE COMPUTER INC	A1286	W80271NRAG7	GS-021	125	7021	2010
2552737	COMPUTER LAPTOP	7/8/2010	58839	APPLE COMPUTER INC	A1297	C02CD3N2DC79	GS-022	001B	7021	2010
2552739	COMPUTER SERVER	7/9/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	E02S	BSJXKM1	GS-032	S09	7021	2010
2552740	COMPUTER SERVER	7/9/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	E02S	BSHZKM1	GS-032	S09	7021	2010
2552761	COMPUTER LAPTOP	7/20/2010	58839	APPLE COMPUTER INC	A1286	W80291WCAGW	GS-034	E107	7021	2010
2552842	COMPUTER MICRO	8/9/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	E01S	4582NM1	GS-028	N136	7021	2010
2552849	COMPUTER LAPTOP	8/11/2010	58839	APPLE COMPUTER INC	A1286	W80322R2AGZ	GS-026	133	7021	2010
2552859	DISK ARRAY	8/8/2010	1QN24	NEW TECH SOLUTIONS	NTSSTOREMEPRO48	64S000A10110000	GS-032	S09	7021	2010
2552999	MONITOR KEYBOARD	9/15/2010	1BZS4	NET OPTICS INC	GCL1816	T89BV001XAD0023	GS-026	153	7025	2010

2553000	DISPLAY UNIT RACKMOUNT	11/3/2010	1BZS4	NET OPTICS INC	GCL1816	T89BE001XAG0024	GS-026	153	7025	2010
2553304	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M33NM1	GS-032	W030	7035	2010
2553305	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M32NM1	GS-032	W030	7035	2010
2553306	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M60NM1	GS-032	W030	7035	2010
2553307	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M51NM1	GS-032	W030	7035	2010
2553308	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M43NM1	GS-032	W030	7035	2010
2553309	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M61NM1	GS-032	W030	7035	2010
2553310	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M53NM1	GS-032	W030	7035	2010
2553311	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M62NM1	GS-032	W030	7035	2010
2553312	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M10NM1	GS-032	W030	7035	2010
2553313	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M01NM1	GS-032	W030	7035	2010
2553314	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M20NM1	GS-032	W030	7035	2010
2553315	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M02NM1	GS-032	W030	7035	2010
2553316	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M12NM1	GS-032	W030	7035	2010
2553317	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M3NM1	GS-032	W030	7035	2010
2553318	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M00NM1	GS-032	W030	7035	2010
2553319	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M03NM1	GS-032	W030	7035	2010
2553320	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7LZZMN1	GS-032	W030	7035	2010
2553321	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M52NM1	GS-032	W030	7035	2010

2553322	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M11NM1	GS-032	W030	7035	2010
2553323	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	F062NM1	GS-032	W030	7035	2010
2553324	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	F07NM1	GS-032	W030	7035	2010
2553325	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	F061NM1	GS-032	W030	7035	2010
2553326	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	F052NM1	GS-032	W030	7035	2010
2553327	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M31NM1	GS-032	W030	7035	2010
2553328	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M63NM1	GS-032	W030	7035	2010
2553329	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M70NM1	GS-032	W030	7035	2010
2553330	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M40NM1	GS-032	W030	7035	2010
2553331	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M30NM1	GS-032	W030	7035	2010
2553332	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M50NM1	GS-032	W030	7035	2010
2553333	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7LZ1NM1	GS-032	W030	7035	2010
2553334	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7LY0NM1	GS-032	W030	7035	2010
2553335	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7LY1NM1	GS-032	W030	7035	2010
2553336	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7LY2NM1	GS-032	W030	7035	2010
2553337	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7LZ0NM1	GS-032	W030	7035	2010
2553338	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M21NM1	GS-032	W030	7035	2010
2553339	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M42NM1	GS-032	W030	7035	2010
2553340	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	741NM1	GS-032	W030	7035	2010

2553341	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M22NM1	GS-032	W030	7035	2010
2553342	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	7M23NM1	GS-032	W030	7035	2010
2553343	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	F053NM1	GS-032	W030	7035	2010
2553344	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	F071NM1	GS-032	W030	7035	2010
2553345	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	F060NM1	GS-032	W030	7035	2010
2553346	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	F072NM1	GS-032	W030	7035	2010
2553347	SERVER	7/30/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	R710	F063NM1	GS-032	W030	7035	2010
2553585	SERVER	9/22/2010	1GE11	DELL COMPUTER CORP F-PC'S LTD	E02S	9ZXVVN1	GS-026	153	7021	2010
2553641	COMPUTER LAPTOP	9/30/2010	58839	APPLE COMPUTER INC	A1297	C02DJ258DG7C	GS-033	E426	7021	2010
2553656	COMPUTER LAPTOP	10/8/2010	58839	APPLE COMPUTER INC	A1286	W804200GAGX	GS-021	279	7021	2010
2553664	SERVER	11/2/2010	NEWTE	NEWTECH COMPUTER	ESS24FR18404B	S4S00A102700003	GS-032	S036J	7035	2010
3010151	DISPLAY UNIT	8/9/2002	56472	SONY CORP OF AMERICA	SDM-M81	445293	GS-023	N409	7025	2002
3010152	DISPLAY UNIT	8/9/2002	56472	SONY CORP OF AMERICA	SDM-M81	439281	GS-023	W426	7025	2002
3010233	COMPUTER MICRO	8/6/2002	58839	APPLE COMPUTER INC	M8493	XB2280AYM8H	GS-032	N148	7021	2002
3010267	COMPUTER MICRO	8/19/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHS	B5KQR11	GS-034	E107	7021	2002
3010309	CAMERA	8/20/2002	SANBA	SANTA BARBARA INSTRUMENT GROUP	ST1001E	10205046F	GS-034	#	6720	2002
3010348	COMPUTER MICRO	8/27/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	WHL	C0LKS11	GS-021	33	7021	2002
3010412	COMPUTER MICRO	9/3/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	5C3XS11	GS-033	F105	7021	2002
3010413	COMPUTER MICRO	9/3/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	8C3XS11	GS-033	F105	7021	2002

3010414	COMPUTER MICRO	9/3/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	CC3XS11	GS-033	H111A	7021	2002
3010415	COMPUTER MICRO	9/3/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	HC3XS11	GS-033	F105	7021	2002
3010423	COMPUTER LAPTOP	8/30/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP04L	D04H459129612430	GS-032	S033	7021	2002
3010440	SWITCHING UNIT/PROG ELEC COMM	9/6/2002	1G5W1	EXTREME NETWORKS	SUMMIT51	012Q9	GS-032	S009	5895	2002
3010664	POWER SUPPLY	8/30/2002	APCXX	APC	AP9215	CA0224120869	GS-021	C023	6130	2002
3010714	DISPLAY UNIT	9/16/2002	PGSYS	PRINCETON GRAPHIC SYSTEMS	MPP850	DTCA4200620	GS-032	N126	7025	2001
3010763	DISK DRIVE SUBSYSTEM	4/29/2002	1C1X5	RAID INC	NA	7721A	GS-032	C101Q	7025	2002
3010780	DISK DRIVE SUBSYSTEM	4/29/2002	1C1X5	RAID INC	NA	7721B	GS-032	C101Q	7025	2002
3010815	PRINTER ADP LASER	8/27/2002	28480	HEWLETT-PACKARD CO	C8052A	JPLGD33800	GS-021	33	7025	2002
3010863	DISPLAY UNIT	9/9/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	1702FP	KR08G152	GS-022	106	7025	2002
3010920	DISPLAY UNIT	9/16/2003	58839	APPLE COMPUTER INC	1864	N531212ENNF	GS-034	C320	7025	2003
3010941	DISPLAY UNIT	6/24/2003	1TRY0	ADVANCED CLUSTERING TECHNOLOGI	LCD9V	34000245GA	GS-022	108	7025	2003
3010982	COMPUTER MICRO	9/11/2002	30874	INTERNATIONAL BUSINESS MACHINE	41U	KAAA353	GS-023	N305	7021	2002
3010983	COMPUTER MICRO	8/26/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	HJJMS11	GS-007	115	7021	2002
3010998	COMPUTER MICRO	9/6/2002	7X430	SUN MICROSYSTEMS INC	SUN BLADE 100	FT23130079	GS-033	H111	7021	2002
3011005	PRINTER ADP LASER	9/3/2002	28480	HEWLETT-PACKARD CO	C9661A	JPAKC11500	GS-021	C231	7025	2002
3011017	COMPUTER LAPTOP	9/4/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP01L	1CSYT11	GS-023	N407	7021	2002
3011060	COMPUTER LAPTOP	9/12/2002	58839	APPLE COMPUTER INC	A1001	QT2290G5CP5	GS-033	E426	7021	2002
3011095	DISPLAY UNIT	9/11/2002	58839	APPLE COMPUTER INC	M7649	N52260JNKPW	GS-034	W278	7025	2002

3011101	PRINTER ADP LASER	9/10/2002	28480	HEWLETT-PACKARD CO	C9662A	JPAKD12629	GS-021	33	7025	2002
3011437	SWITCHING UNIT/PROG ELEC COMM	9/23/2002	1G5W1	EXTREME NETWORKS	11104	0223F00426	GS-032	C101	5895	2002
3011440	SWITCHING UNIT/PROG ELEC COMM	9/23/2002	1G5W1	EXTREME NETWORKS	11104	0233M00224	GS-032	C101	5895	2002
3011524	ELECTRICAL DISCHARGE MACHINE	10/1/2002	FANUC	FANUC USA CORP	NONE	NONE	GS-007	59	3410	2002
3011525	MILLING MACHINE	10/8/2002	8607	BRIDGEPORT MACHINES	F537A	BR283941	GS-007	59	3417	2002
3011688	COMPUTER MICRO	9/26/2002	58839	APPLE COMPUTER INC	M8570	SG236BPFMFX	GS-028	W220	7021	2002
3011739	COMPUTER MICRO	10/3/2002	58839	APPLE COMPUTER INC	A1001	QT2380NVLP1	GS-032	N132	7021	2002
3011762	SWITCHING UNIT/PROG ELEC COMM	10/8/2002	1G5W1	EXTREME NETWORKS	11701	0226M00298	GS-028	W220	5895	2002
3012289	DISPLAY UNIT	10/30/2002	S5769	NEC CORP	LCD2010X	2800149CA	GS-007	039A	7025	2002
3012339	DISPLAY UNIT	11/6/2002	58839	APPLE COMPUTER INC	M7649	N52122AUKPW	GS-028	W271	7025	2002
3012645	COMPUTER MICRO	5/27/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	824D421	GS-026	106	7021	2008
3012649	DISPLAY UNIT	12/6/2002	0V618	VIEWSONIC CORP/ DIV KEYPOINT	VLCDS23896-3W	A1B024010023	GS-034	S143	7025	2002
3012650	DISPLAY UNIT	12/6/2002	0V618	VIEWSONIC CORP/ DIV KEYPOINT	VLCDS23896-3W	A1B024010027	GS-033	F420	7025	2002
3012663	PROJECTOR	12/10/2002	S0319	MITSUBISHI ELECTRIC CORP	X500U	4262	GS-033	D012	6730	2002
3012919	DISPLAY UNIT	12/16/2002	58839	APPLE COMPUTER INC	M7649	N52410UGKPW	GS-033	A321	7025	2002
3012923	DISPLAY UNIT	12/20/2002	6U614	ADC	TFT1880	T8YF25AG01710	GS-034	W277	7025	2002
3013117	SWITCHING UNIT/PROG ELEC COMM	1/14/2003	1G5W1	EXTREME NETWORKS	11702	0207M00538	GS-032	S009	5895	2002
3013148	SWITCHING UNIT/PROG ELEC COMM	1/22/2003	1G5W1	EXTREME NETWORKS	11702	0250M00385	GS-032	S009	5895	2002

3013282	SERVER	11/7/2002	1Z004	SILICON GRAPHICS INC	CMN019	M2100325	GS-032	S009	7035	2002
3013283	SERVER	5/31/2002	1Z004	SILICON GRAPHICS INC	CMN019	M2100348	GS-032	S009	7035	2001
3013584	COMPUTER MICRO	2/20/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	72XBF21	GS-033	H108	7021	2003
3013585	COMPUTER MICRO	2/20/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	42XBF21	GS-033	F105	7021	2003
3013588	DISPLAY UNIT	2/20/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	M992	04N736476062A7B	GS-033	F105	7025	2002
3013675	SERVER	3/17/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMM01	23WLH41	GS-033	H111	7035	2004
3014048	COMPUTER MICRO	2/20/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	HW64F21	GS-021	C023	7021	2003
3014049	DISPLAY UNIT	2/20/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	2000FP	09E249466352BB0	GS-022	12	7025	2002
3014103	PRINTER ADP LASER	3/4/2003	28480	HEWLETT-PACKARD CO	C8050A	BRJGD01021	GS-007	127	7025	2002
3014106	COMPUTER MICRO	3/5/2003	58839	APPLE COMPUTER INC	M8570	XB3090L2NP1	GS-003	S038D	7021	2002
3014326	DISPLAY UNIT	2/27/2003	58839	APPLE COMPUTER INC	M8536	CY306190LFA	GS-007	274	7025	2002
3014449	SWITCHING UNIT/PROG ELEC COMM	3/17/2003	1G5W1	EXTREME NETWORKS	11701	0304M01542	GS-028	W271	5895	2002
3014467	SWITCHING UNIT/PROG ELEC COMM	3/17/2003	1G5W1	EXTREME NETWORKS	11701	0239M00058	GS-028	W220	5895	2002
3014492	COMPUTER MICRO	3/18/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	51X2L21	GS-033	H111	7021	2002
3014503	COMPUTER LAPTOP	3/19/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP01L	JLPWK21	GS-021	39	7021	2002
3014513	COMPUTER MICRO	3/13/2003	58839	APPLE COMPUTER INC	M8570	XB308HVN1X	GS-034	S279	7021	2002
3014517	DISPLAY UNIT	3/24/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	1800FP	07R477	GS-028	N189	7025	2002
3014554	COMPUTER MICRO	3/24/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	JG8ML21	GS-021	71	7021	2002

3014617	COMPUTER MICRO	5/24/2000	7X430	SUN MICROSYSTEMS INC	ULTRA 2	816FC1B2	GS-028	N136	7021	1998
3014619	DISK DRIVE UNIT	4/14/2003	0DYT8	ANDATACO	ESPDK1S	40526	GS-028	N136	7025	1999
3014620	DISK DRIVE UNIT	4/14/2003	0DYT8	ANDATACO	ESPDK1S	SS-0003-0415	GS-028	N136	7025	1999
3014628	TRANSPORT MAGNETIC TAPE	4/14/2003	0AMY4	QUALSTAR CORP	8222	2105433	GS-028	N136	7025	2003
3014681	DISPLAY UNIT	3/25/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	1702FP	08G1524760531SD	GS-028	W279	7025	2003
3014709	COMPUTER MICRO	3/26/2003	58839	APPLE COMPUTER INC	M8570	XB3120KBNP1	GS-034	S320	7021	2002
3014740	COMPUTER MICRO	3/28/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	32Z3M21	GS-023	N305	7021	2003
3014757	DISPLAY UNIT	3/31/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	M992	4N7364760533HB	GS-033	D111A	7025	2003
3014780	COMPUTER MICRO	4/3/2003	58839	APPLE COMPUTER INC	M8570	XB3040FLN1X	GS-021	137A	7021	2003
3014784	DISPLAY UNIT	4/3/2003	58839	APPLE COMPUTER INC	M7649	N53031MDNNF	GS-034	S143	7025	2003
3014785	DISPLAY UNIT	4/3/2003	58839	APPLE COMPUTER INC	M7649	N530200MNNF	GS-034	S143	7025	2003
3014787	DISPLAY UNIT	4/3/2003	58839	APPLE COMPUTER INC	M7649	N530315MNNF	GS-034	S143	7025	2003
3014870	DISPLAY UNIT	4/8/2003	58839	APPLE COMPUTER INC	M1038	N53092RLNAF	GS-028	W237	7025	2003
3014886	DISPLAY UNIT	4/3/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	1800FP	07R4774832333J07	GS-033	F109A	7025	2003
3014887	DISPLAY UNIT	4/3/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	1800FP	07R4774832333J07	GS-028	189	7025	2003
3014897	COMPUTER MICRO	4/16/2003	58839	APPLE COMPUTER INC	M8570	XB315013NP1	GS-034	S320	7021	2003
3014912	COMPUTER MICRO	4/11/2003	58839	APPLE COMPUTER INC	M8570	XB314084N1S	GS-034	C320	7021	2003
3014921	COMPUTER MICRO	4/11/2003	58839	APPLE COMPUTER INC	M8570	XB3140DMNP1	GS-034	S320	7021	2003
3014946	COMPUTER MICRO	4/21/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	WHL	6MV5P21	GS-034	E305	7021	2003
3014976	DISPLAY UNIT	4/18/2003	58839	APPLE COMPUTER INC	M7649	Y130815ENNF	GS-034	W274	7025	2003

3015011	DISPLAY UNIT	4/23/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	2000FP	09E2494663333B0	GS-021	33	7025	2003
3015160	DISPLAY UNIT	4/29/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	1800FP	7R4774832334N0	GS-021	33	7025	2003
3015254	DISPLAY UNIT	5/6/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	200FP	09E2494663333VO	GS-034	E309	7025	2003
3015326	COMPUTER MICRO	5/16/2003	58839	APPLE COMPUTER INC	A1013	V73201F4MW0	GS-LRLWHS	1	7021	2003
3015346	COMPUTER MICRO	5/16/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	5MG6T21	GS-023	N407	7021	2003
3015418	COMPUTER MICRO	3/14/2003	COMSK	COMPUSHACK	NONE	22704532	GS-033	H111	7021	2003
3015436	COMPUTER MICRO	6/10/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	NONE	N0G14947082134	GS-034	W274	7021	2003
3015459	DISK DRIVE UNIT	3/24/2003	0K405	LA CIE LTD	300502	12400742	GS-028	N136	7025	2003
3015520	DISPLAY UNIT	5/30/2003	0V618	VIEWSONIC CORP/ DIV KEYPOINT	VLCD26105-1W	A28031205886	GS-028	W220	7025	2003
3015521	DISPLAY UNIT	5/30/2003	0V618	VIEWSONIC CORP/ DIV KEYPOINT	VLCD26105-1W	A28031205858	GS-028	W220	7025	2003
3015534	COMPUTER MICRO	5/29/2003	58839	APPLE COMPUTER INC	M8570	XB3210BDNP3	GS-034	C320	7021	2003
3015626	COMPUTER MINI	6/24/2003	PSSCL	PSSC LABS	NONE	350116	GS-028	W271	7021	2003
3015684	SERVER	6/26/2003	1DCQ4	PSSC LABS (PARASOFT SALES CORP	NONE	350213	GS-028	W220	7035	2003
3015685	SERVER	6/26/2003	1DCQ4	PSSC LABS (PARASOFT SALES CORP	NONE	350215	GS-MCLEAN	S109	7035	2003
3015686	SERVER	6/26/2003	1DCQ4	PSSC LABS (PARASOFT SALES CORP	NONE	350214	GS-MCLEAN	S109	7035	2003
3015824	COMPUTER MICRO	7/31/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	DMC	4QR9631	GS-023	N305	7021	2003
3015845	DISPLAY UNIT	8/7/2003	56472	SONY CORP OF AMERICA	SDM-S91	4254474	GS-023	N409	7025	2003
3015860	COMPUTER MICRO	8/13/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	DMC	C5VG831	GS-021	39	7021	2003
3015891	DISPLAY UNIT	8/29/2003	56472	SONY CORP OF AMERICA	SDM-X82	8005401	GS-021	33	7025	2003

3015894	DISPLAY UNIT	8/25/2003	LGELI	LG ELECTRONICS INC	LB886F-UL	BEJLB886F	GS-023	N305	7025	2003
3034393	DISPLAY UNIT	3/10/2004	62803	NEC INFORMATION SYSTEMS INC	LCD1960NXI	S42102238YA	GS-021	33	7025	2004
3034448	DISPLAY UNIT	9/12/2003	58839	APPLE COMPUTER INC	M8536	CY3291RQLFA	GS-032	N126A	7025	2003
3034455	COMPUTER MICRO	9/11/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	DMC	7YDNF31	GS-021	047C	7021	2003
3034466	DISPLAY UNIT	9/15/2003	56472	SONY CORP OF AMERICA	SDM-S81R	9009326	GS-023	N305	7025	2003
3034474	DISPLAY UNIT	9/11/2003	0V618	VIEWSONIC CORP/ DIV KEYPOINT	VLCD523723-1W	A17032200006	GS-034	W257	7025	2003
3034481	COMPUTER MICRO	9/8/2003	1W5F1	POGO LINUX	NONE	692899	GS-034	W273	7021	2003
3034539	DISPLAY UNIT	9/29/2003	S7022	SAMSUNG ELECTRONICS	171P-GH17PSAS	GH17H4LW301172	GS-034	E103	7025	2003
3034549	COMPUTER MICRO	10/3/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHS	9F89L31	GS-034	W274	7021	2003
3034566	DISPLAY UNIT	8/8/2008	58839	APPLE COMPUTER INC	M7649	Y13351H2NNF	GS-034	S143	7025	2008
3034576	SWITCHING UNIT/ PROG ELEC COMM	11/8/2001	1G5W1	EXTREME NETWORKS	11501	0143M-00657	GS-028	W220	5895	2001
3034578	DISPLAY UNIT	10/6/2003	58839	APPLE COMPUTER INC	A1038	N53310DRNAF	GS-034	S279	7025	2003
3034684	DISPLAY UNIT	8/26/2002	1GE11	DELL COMPUTER CORP F-PC'S LTD	2000FP	09E2494663537E0	GS-007	115	7025	2002
3034720	COMPUTER MICRO	10/30/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	J1CNP31	GS-023	N409	7021	2003
3034721	COMPUTER MICRO	10/30/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	22CNP33	GS-023	N407	7021	2003
3034722	COMPUTER MICRO	10/30/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	12CNP31	GS-023	N409	7021	2003
3034723	COMPUTER MICRO	10/30/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	32CNP31	GS-023	N409	7021	2003
3034802	COMPUTER LAPTOP	11/28/2003	58839	APPLE COMPUTER INC	A1046	V7348HXWNRX	GS-021	S025	7021	2003
3034817	COMPUTER MICRO	11/26/2003	58839	APPLE COMPUTER INC	A1047	XB3470JCNVB	GS-023	N407	7021	2003

3034880	COMPUTER MICRO	12/5/2003	1TRY0	ADVANCED CLUSTERING TECHNOLOGI	AMD ATHLON 2600M	321157	GS-034	W160	7021	2003
3034882	COMPUTER MICRO	12/5/2003	1TRY0	ADVANCED CLUSTERING TECHNOLOGI	3000+XP	321154	GS-028	S206	7021	2003
3034935	PRINTER ADP LASER	12/9/2003	28480	HEWLETT-PACKARD CO	C9661A	JPGMD49817	GS-034	C234B	7025	2003
3035076	COMPUTER MINI	12/22/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	WHL	831K141	GS-032	N132	7021	2003
3035082	DISPLAY UNIT	12/22/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	2001FP	DC0646466333AR1	GS-032	N132	7025	2003
3035187	DISPLAY UNIT	2/10/2004	51984	NEC AMERICA INC BROADCASTING	LCD1960NXI	S41100800YA	GS-021	33	7025	2004
3035276	DISPLAY UNIT	2/17/2004	51984	NEC AMERICA INC BROADCASTING	LCD1960NXI	S41100616YA	GS-021	33	7025	2004
3035361	DISPLAY UNIT	2/23/2004	51984	NEC AMERICA INC BROADCASTING	LCD1960NXI	S41101502YA	GS-021	269	7025	2004
3035374	DISPLAY UNIT	2/23/2004	51984	NEC AMERICA INC BROADCASTING	LCD1960NXI	S41100653YA	GS-021	33	7025	2004
3035586	TRANSPORT MAGNETIC TAPE	5/14/2003	28480	HEWLETT-PACKARD CO	30-80008-30	R8D1400866	GS-021	269	7025	2003
3035646	COMPUTER MICRO	4/22/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	8250	H92KP21	GS-021	241	7021	2003
3035900	COMPUTER MICRO	1/16/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	94MG441	GS-034	C274	7021	2003
3035901	DISPLAY UNIT	1/16/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	1800FP	07R477483234170	GS-034	C274	7025	2003
3036046	COMPUTER MICRO	1/21/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	BZ8F541	GS-021	137A	7021	2003
3036094	COMPUTER LAPTOP	1/23/2004	30874	INTERNATIONAL BUSINESS MACHINE	TYPE2373-92U	KP-MVAG8	GS-034	W278	7021	2004
3036095	COMPUTER MICRO	1/30/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	8G2X641	GS-023	N407	7021	2004
3036096	DISPLAY UNIT	1/30/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	2001FP	DC0646466333C13	GS-023	C432	7025	2003
3036110	SERVER	1/27/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMM01	1ZLQ541	GS-033	H111	7035	2004

3036127	DISPLAY UNIT	1/27/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	1901FP	5Y232716183CNBB	GS-026	1	7025	2003
3036209	COMPUTER MICRO	2/10/2004	58839	APPLE COMPUTER INC	A1047	XB35100TNV9	GS-028	W237	7021	2004
3036421	COMPUTER LAPTOP	2/20/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP05L	521HB41	GS-021	L108	7021	2004
3036437	COMPUTER MICRO	2/19/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	53XMB41	GS-021	33	7021	2004
3036448	DISPLAY UNIT	2/23/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	M992	D4N736476033CAB	GS-033	D205A	7025	2003
3036507	COMPUTER LAPTOP	2/27/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP05L	CS3CF41	GS-028	S114	7021	2004
3036764	DISPLAY UNIT	3/4/2004	58839	APPLE COMPUTER INC	M8536	CY405050LFA	GS-021	33	7025	2004
3036770	COMPUTER MICRO	3/3/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	HS6WF41	GS-033	B105	7021	2004
3036771	COMPUTER LAPTOP	3/9/2004	30874	INTERNATIONAL BUSINESS MACHINE	2373GEU	99RFPW	GS-034	W274	7021	2004
3036776	DISPLAY UNIT	3/4/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	2001FP	C0646466333BI18	GS-034	W276	7025	2003
3036778	DISPLAY UNIT	3/10/2004	58839	APPLE COMPUTER INC	A1038	N54082RUNAF	GS-033	H102	7025	2004
3036788	DISPLAY UNIT	3/11/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	1703FP	2Y3157161841VA	GS-026	133	7025	2004
3036948	DISPLAY UNIT	3/9/2004	62803	NEC INFORMATION SYSTEMS INC	LCD1960NXI	S42000026YA	GS-021	C023	7025	2004
3037112	COMPUTER LAPTOP	1/9/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP02X	19DQ241	GS-033	D125	7021	2004
3037129	COMPUTER LAPTOP	9/12/2003	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP05L	722HF31	GS-022	8	7021	2003
3037264	DISPLAY UNIT	3/1/2004	58839	APPLE COMPUTER INC	M7649ZM/B	SN53131BWNNF	GS-034	S143	7025	2003
3037523	COMPUTER MICRO	4/27/2004	58839	APPLE COMPUTER INC	M9032LL/A	SYM339VXPNV5	GS-007	121	7021	2004
3037586	COMPUTER MICRO	7/12/2004	28480	HEWLETT-PACKARD CO	D530CMT	USU4260FWW	GS-021	268	7021	2004
3037670	COMPUTER MICRO	5/28/2004	28480	HEWLETT-PACKARD CO	D530CP3	USW42000WM	GS-021	33	7021	2004

3037676	COMPUTER MICRO	5/28/2004	28480	HEWLETT-PACKARD CO	D530C/P3	USW42000TX	GS-021	33	7021	2004
3037686	COMPUTER LAPTOP	6/2/2004	58839	APPLE COMPUTER INC	A1095	W82115HQW3	GS-HOME	#	7021	2004
3037700	COMPUTER MICRO	6/14/2004	28480	HEWLETT-PACKARD CO	D530C/P3	2UA4210DJJ	GS-021	C023	7021	2004
3037761	COMPUTER LAPTOP	6/8/2004	28480	HEWLETT-PACKARD CO	N800W	KRD3330HGW	GS-034	W386	7021	2003
3037829	COMPUTER MICRO	10/6/2004	58839	APPLE COMPUTER INC	M9393LL/A	XB41500XQES	GS-034	S143	7021	2004
3037831	PRINTER ADP LASER	5/10/2004	28480	HEWLETT-PACKARD CO	C4267A	JPBLM88850	GS-002	W130	7025	2004
3037870	COMPUTER MICRO	5/14/2004	28480	HEWLETT-PACKARD CO	D530CP3	2UB417002N	GS-021	33	7021	2004
3037884	COMPUTER MICRO	5/14/2004	28480	HEWLETT-PACKARD CO	D530C/P3	2UB4170038	GS-021	33	7021	2004
3037925	COMPUTER MICRO	3/16/2004	58839	APPLE COMPUTER INC	A1047	XB411071NVB	GS-033	H102	7021	2004
3037932	COMPUTER LAPTOP	3/17/2004	58839	APPLE COMPUTER INC	A1046	W8410AHNRW	GS-034	W278	7021	2004
3038017	DISPLAY UNIT	3/24/2004	S5769	NEC CORP	FE2111SB-BK	39100876YA	GS-022	146	7025	2003
3038018	SERVER	3/26/2004	1Z004	SILICON GRAPHICS INC	CMN026	M2005374	GS-033	H111A	7035	2004
3038078	COMPUTER MICRO	3/30/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	339BM41	GS-028	N136	7021	2004
3038230	COMPUTER MICRO	4/14/2004	58839	APPLE COMPUTER INC	A1046	W8413ZVHRW	GS-034	E343	7021	2004
3038257	COMPUTER LAPTOP	4/14/2004	0G3K8	GATEWAY COMPANIES INC	M675	33065630	GS-028	W279	7021	2004
3038303	COMPUTER MICRO	4/16/2004	1TRY0	ADVANCED CLUSTERING TECHNOLOGI	8AM200	321602	GS-034	W276	7021	2004
3038304	DISPLAY UNIT	4/16/2004	0V618	VIEWSONIC CORP/ DIV KEYPOINT	VCDT522355-5M	26F034701912	GS-022	106	7025	2003
3038330	DISPLAY UNIT	4/20/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	1801FP	DX110648323447N	GS-032	S231G	7025	2004
3038334	SERVER	4/21/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	ETL	43XXP41	GS-032	S009	7035	2004

3038335	SERVER	4/22/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	ETL	JNCYP41	GS-032	S009	7035	2004
3038370	COMPUTER MICRO	4/23/2004	28480	HEWLETT-PACKARD CO	XW4100	USV41504KX	GS-023	N305	7021	2004
3038560	DISPLAY UNIT	4/27/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	1801FP	DX11064832344EK	GS-023	N409	7025	2004
3038579	COMPUTER MICRO	4/26/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	234VQ41	GS-021	48	7021	2004
3038708	COMPUTER MICRO	5/11/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	H8T0W41	GS-034	S320	7021	2004
3038715	COMPUTER MICRO	5/10/2004	7X430	SUN MICROSYSTEMS INC	SUN BLADE 1500	MT41320003	GS-023	N305	7021	2004
3038741	COMPUTER MICRO	5/14/2004	58839	APPLE COMPUTER INC	A1047	G84092HMPXD	GS-033	F105	7021	2004
3038748	COMPUTER MICRO	5/11/2004	7X430	SUN MICROSYSTEMS INC	SUNBLADE 2500	FE41030082	GS-023	N407	7021	2004
3038749	DISPLAY UNIT	5/11/2004	7X430	SUN MICROSYSTEMS INC	GH19PS	0411MR1714	GS-023	N407	7025	2004
3038792	COMPUTER MICRO	5/17/2004	28480	HEWLETT-PACKARD CO	XW4100	USV419065T	GS-023	N305	7021	2004
3038793	DISPLAY UNIT	5/17/2004	28480	HEWLETT-PACKARD CO	V7550	CNC4050ZYJ	GS-023	N305A	7025	2004
3038801	SERVER	5/21/2004	28480	HEWLETT-PACKARD CO	PROLIANT DL380	EA3ZLDND2P	GS-023	C236A	7035	2004
3038836	COMPUTER LAPTOP	5/26/2004	58839	APPLE COMPUTER INC	A1095	W84211LXQW3	GS-034	W278	7021	2004
3038851	DISPLAY UNIT	5/27/2004	S5769	NEC CORP	L192R9	43109924YA	GS-021	C023	7025	2004
3038859	COMPUTER LAPTOP	6/1/2004	0DV96	TOSHIBA AMERICAN INFO SYSTEMS	PORTEGE M200	44079826H	GS-023	N407	7021	2004
3038890	SERVER	6/3/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	SCL	HYZCY41	GS-028	N136	7035	2004
3038891	SERVER	6/3/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	SCL	JYZCY41	GS-026	153	7035	2004
3038892	DISPLAY UNIT	6/3/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	E551C	7G076641803BC0	GS-028	N136	7025	2004
3039296	COMPUTER MICRO	6/10/2004	1TRY0	ADVANCED CLUSTERING TECHNOLOGI	NONE	321688	GS-034	W276	7021	2004

3039307	COMPUTER MICRO	6/10/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	2K8G051	GS-021	33	7021	2004
3039388	SERVER	6/23/2004	58839	APPLE COMPUTER INC	A1068	QP4220CPPNH	GS-033	H111B	7035	2004
3039389	SERVER	6/23/2004	58839	APPLE COMPUTER INC	A1068	QP4220CDPNH	GS-033	H111B	7035	2004
3039390	SERVER	6/23/2004	58839	APPLE COMPUTER INC	A1068	QP4220ADPNH	GS-033	H111B	7035	2004
3039391	SERVER	6/23/2004	58839	APPLE COMPUTER INC	A1068	QP42212HPNH	GS-033	H111B	7035	2004
3039392	SERVER	6/23/2004	58839	APPLE COMPUTER INC	A1068	QP4220GSPNH	GS-033	H111B	7035	2004
3039393	SERVER	6/23/2004	58839	APPLE COMPUTER INC	A1068	QP4220CMPNH	GS-033	H111B	7035	2004
3039395	SERVER	6/23/2004	58839	APPLE COMPUTER INC	A1068	QP4220GAPNH	GS-033	H111B	7035	2004
3039398	SERVER	6/23/2004	58839	APPLE COMPUTER INC	A1068	QP4220CKPNH	GS-033	H111B	7035	2004
3039400	SERVER	6/23/2004	58839	APPLE COMPUTER INC	A1068	QP4220GLPNH	GS-033	H111B	7035	2004
3039402	SERVER	6/23/2004	58839	APPLE COMPUTER INC	A1068	QP4220GQPNH	GS-033	H111B	7035	2004
3039407	SERVER	6/23/2004	58839	APPLE COMPUTER INC	A1009	QP416005PQG	GS-033	H111B	7035	2004
3039419	DISPLAY UNIT	6/25/2004	56472	SONY CORP OF AMERICA	SDM-S204	9251491	GS-023	N409	7025	2004
3039478	COMPUTER MICRO	6/15/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCM	24XS051	GS-023	N305	7021	2004
3039479	DISPLAY UNIT	6/15/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	E172FP	DM1609466334402	GS-023	N305	7025	2004
3039480	COMPUTER MICRO	6/29/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DMC	6N94451	GS-023	N305	7021	2004
3039481	DISPLAY UNIT	6/29/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	E172FP	DM1609466334400	GS-023	N305	7025	2004
3039528	DISPLAY UNIT	7/1/2004	56472	SONY CORP OF AMERICA	SDM-X93/BK	9217730	GS-023	N305	7025	2004
3039580	SCANNER	5/15/2004	S7013	MICROTEK INTERNATIONAL INC	MRS3200A3	S3BG418533A	GS-028	N189	7025	2004

3039658	COMPUTER LAPTOP	7/2/2004	58839	APPLE COMPUTER INC	A1047	G84174RPPXD	GS-007	142	7021	2004
3039708	COMPUTER MICRO	10/6/2004	58839	APPLE COMPUTER INC	A1047	G84162MZQEU	GS-034	S143	7021	2004
3039724	COMPUTER MICRO	10/6/2004	58839	APPLE COMPUTER INC	A1047	G84162MYQEU	GS-034	S143	7021	2004
3039754	COMPUTER MICRO	10/14/2004	28480	HEWLETT-PACKARD CO	D530C/P3	S2UB413034X	GS-022	C247	7021	2004
3039756	COMPUTER MICRO	10/14/2004	58839	APPLE COMPUTER INC	A1047	SXB4120DZQEU	GS-034	S143	7021	2004
3039760	COMPUTER MICRO	10/14/2004	28480	HEWLETT-PACKARD CO	D530C/P3	S2UB413036G	GS-026	111	7021	2004
3039789	COMPUTER MICRO	10/14/2004	58839	APPLE COMPUTER INC	A1047	XB41409SQEU	GS-GGAO	206	7021	2004
3039866	COMPUTER MICRO	10/13/2004	65685	COMPAQ COMPUTER CORP	EVO D510	USU3210JHQ	GS-010	6	7021	2004
3066447	COMPUTER MICRO	4/5/2005	28480	HEWLETT-PACKARD CO	D530C/P3	2UA428044S	GS-021	21	7021	2004
3066466	COMPUTER MICRO	10/6/2004	0G3K8	GATEWAY COMPANIES INC	WSP-E6100	34382485	GS-032	C101	7021	2004
3066476	COMPUTER MICRO	10/6/2004	0G3K8	GATEWAY COMPANIES INC	WSP-E6100	34382476	GS-032	C101	7021	2004
3066606	COMPUTER MICRO	9/29/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	56KWQ51	GS-034	E105	7021	2004
3066608	SERVER	10/7/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMM01	5T4HR51	GS-028	N198B	7035	2004
3066921	COMPUTER LAPTOP	11/26/2003	58839	APPLE COMPUTER INC	A1045	W84420WWQW3	GS-033	H108	7021	2003
3066923	TAPE LIBRARY	10/6/2004	0EZ71	OVERLAND DATA INC	LXN 2000	2B44000011	GS-028	N136	7025	2004
3067160	COMPUTER MICRO	11/3/2004	58839	APPLE COMPUTER INC	A1047	G84434UUQPS	GS-021	33	7021	2004
3067220	DISPLAY UNIT	11/12/2004	56472	SONY CORP OF AMERICA	SDM-P234	9202812	GS-034	E345	7025	2004
3067223	COMPUTER MICRO	11/17/2004	58839	APPLE COMPUTER INC	A1058	W84461FYPNY	GS-022	106	7021	2004
3067226	COMPUTER LAPTOP	11/16/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP02X	3BXJ061	GS-ALABAM	101	7021	2004
3067272	COMPUTER MICRO	11/24/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	6SR4461	GS-023	N305	7021	2004

3067280	COMPUTER LAPTOP	11/30/2004	58839	APPLE COMPUTER INC	A1095	W84470QLQW3	GS-034	W320M	7021	2004
3067298	COMPUTER LAPTOP	11/26/2004	58839	APPLE COMPUTER INC	A1010	4H44804KPLH	GS-034	E312	7021	2004
3067850	COMPUTER MICRO	11/30/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	JJ2L461	GS-023	N305	7021	2004
3067851	DISPLAY UNIT	11/30/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	1703FP	D2Y315716184A8A	GS-023	N305	7025	2004
3067872	COMPUTER MICRO	12/3/2004	58839	APPLE COMPUTER INC	A1047	G84484KCQPR	GS-034	E109	7021	2004
3067876	SWITCHING UNIT/PROG ELEC COMM	9/17/2002	1G5W1	EXTREME NETWORKS	11701	0144M-01000	GS-032	S009	5895	2002
3067895	COMPUTER MICRO	12/9/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	3DZ6761	GS-021	33	7021	2004
3067929	COMPUTER MICRO	12/15/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	D0LY861	GS-021	33	7021	2004
3068066	DISPLAY UNIT	1/10/2000	7X430	SUN MICROSYSTEMS INC	C22BW711	01571-0448MN065	GS-021	243	7025	1999
3068079	DISPLAY UNIT	12/20/2004	S5769	NEC CORP	LCD2060NX-BK	45103819QA	GS-021	131C	7025	2004
3068102	COMPUTER MICRO	12/23/2004	30874	INTERNATIONAL BUSINESS MACHINE	6224-30U	KPH3109	GS-028	N136	7021	2004
3068103	COMPUTER MICRO	12/23/2004	30874	INTERNATIONAL BUSINESS MACHINE	6224-30U	KPH3110	GS-028	N136	7021	2004
3068136	COMPUTER MICRO	12/27/2004	1GE11	DELL COMPUTER CORP F-PC'S LTD	DMC	1Q97F61	GS-034	E107	7021	2004
3068218	COMPUTER LAPTOP	1/11/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP05L	2GDTG61	GS-023	N407	7021	2004
3068296	COMPUTER MICRO	1/21/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	WHM	J25KL61	GS-023	N305	7021	2004
3068297	DISPLAY UNIT	1/21/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	1905FP	DT6116716184C9A	GS-023	N305	7025	2004
3068312	COMPUTER MICRO	1/28/2005	58839	APPLE COMPUTER INC	A1047	G85611B2QPP	GS-034	S199	7021	2004
3068315	COMPUTER MICRO	1/27/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHS	6LLS961	GS-034	S320	7021	2004
3068415	PRINTER ADP LASER	2/14/2005	28480	HEWLETT-PACKARD CO	Q3670A	JPHAB20740	GS-021	131C	7025	2004

3068432	SERVER	10/14/2004	0NFL9	WESTERN SCIENTIFIC MARKETING	FUSION SA	1012006187	GS-032	S009	7035	2004
3068436	ROUTER COMMUNICATIONS	2/2/2005	FOR10	FORCE 10 NETWORKS	E600	26222	GS-028	W220	5895	2004
3068638	COMPUTER LAPTOP	10/22/2004	0DV96	TOSHIBA AMERICAN INFO SYSTEMS	A70-S259	94437508K	GS-034	W278	7021	2004
3068730	SWITCHING UNIT/PROG ELEC COMM	2/17/2005	1G5W1	EXTREME NETWORKS	16101	C453G00031	GS-032	S009	5895	2004
3068748	COMPUTER MICRO	2/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	DMC	JBILT61	GS-021	247	7021	2005
3068749	COMPUTER MICRO	2/23/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	5XRN61	GS-022	192E	7021	2005
3068756	COMPUTER MICRO	2/22/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	WHM	24DRT61	GS-034	E345	7021	2005
3068840	COMPUTER LAPTOP	3/3/2005	0G3K8	GATEWAY COMPANIES INC	M275	34941979	GS-023	N407	7021	2005
3068849	COMPUTER MICRO	3/8/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	DMC	JRCPX61	GS-034	E107	7021	2004
3068895	DISK ARRAY	3/11/2005	58839	APPLE COMPUTER INC	A1009	QP511047SAA	GS-033	H111A	7025	2005
3068946	COMPUTER MICRO	3/14/2005	0G3K8	GATEWAY COMPANIES INC	E6300	34992899	GS-032	N132	7021	2005
3068947	COMPUTER MICRO	3/14/2005	0G3K8	GATEWAY COMPANIES INC	E6300	34992896	GS-032	C101Q	7021	2005
3068961	SERVER	3/18/2005	7X430	SUN MICROSYSTEMS INC	SUN FIRE V250	FQ51150096	GS-034	C188	7035	2005
3068984	COMPUTER MICRO	3/23/2005	0G3K8	GATEWAY COMPANIES INC	E6300	35004099	GS-032	N126D	7021	2005
3068994	COMPUTER MICRO	3/23/2005	0G3K8	GATEWAY COMPANIES INC	E6300	35004098	GS-032	N135	7021	2005
3069010	COMPUTER MICRO	3/25/2005	28480	HEWLETT-PACKARD CO	D530CMT	2UB50309T3	GS-032	S181	7021	2004
3069050	DISK DRIVE UNIT	3/31/2005	00CN5	LEGASYS INTL INC	NONE	HY9JF20/3HY9HWH	GS-003	S005A	7025	2004
3069051	DISK DRIVE UNIT	3/31/2005	00CN5	LEGASYS INTL INC	NONE	HY9H1EB/3HY9HA5	GS-003	S005A	7025	2004
3069052	DISK DRIVE UNIT	3/31/2005	00CN5	LEGASYS INTL INC	NONE	HY9H01K/3HY8ARN	GS-003	S005B	7025	2004
3069216	COMPUTER LAPTOP	2/1/2005	58839	APPLE COMPUTER INC	G4	W8504717URG4	GS-007	142	7021	2005

3069298	COMPUTER LAPTOP	1/7/2003	65685	COMPAQ COMPUTER CORP	PP2130	3912A556	GS-021	247	7021	2003
3069326	SERVER	9/26/2005	1Z004	SILICON GRAPHICS INC	CMN019	R2005044	GS-028	E220C	7035	2005
3069338	COMPUTER MICRO	4/18/2005	ACERA	ACER AMERICA CORP	V7600GT	007836335120005A	GS-023	N305	7021	2005
3069370	COMPUTER MICRO	4/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	863B871	GS-034	E107	7021	2005
3069376	COMPUTER MICRO	4/18/2005	58839	APPLE COMPUTER INC	A1103	YM5160G4RHS	GS-007	142	7021	2004
3069447	DISPLAY UNIT	5/3/2005	58839	APPLE COMPUTER INC	A1082	2A51411PPKL	GS-021	33	7025	2004
3069485	COMPUTER MICRO	5/3/2005	30874	INTERNATIONAL BUSINESS MACHINE	842255U	KCPA7NF	GS-033	H111	7021	2004
3069530	COMPUTER LAPTOP	4/14/2005	0DV96	TOSHIBA AMERICAN INFO SYSTEMS	A3S611	25114707K	GS-023	W415	7021	2005
3069659	DISPLAY UNIT	4/28/2005	MS060	NEOVO	F-419	CAF19G065140210	GS-021	33	7025	2005
3069713	COMPUTER LAPTOP	5/13/2005	58839	APPLE COMPUTER INC	A1104	4H52002MRJ4	GS-HOME	#	7021	2004
3069767	COMPUTER MICRO	5/16/2005	7X430	SUN MICROSYSTEMS INC	SUNBLADE 1500	MU51850033	GS-023	N305	7021	2005
3069768	DISPLAY UNIT	5/16/2005	7X430	SUN MICROSYSTEMS INC	CH19PS	0511MR0300	GS-023	N305	7025	2005
3069790	COMPUTER MICRO	5/26/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	WHL	FV8SK71	GS-023	N407	7021	2004
3069818	COMPUTER MICRO	6/1/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	8BX5L71	GS-021	33	7021	2005
3069843	COMPUTER LAPTOP	6/6/2005	58839	APPLE COMPUTER INC	A1106	W85230X8SQ7	GS-032	N148E	7021	2005
3069895	DISPLAY UNIT	6/6/2005	56472	SONY CORP OF AMERICA	FWD-42LX1	2000570	GS-023	N305	7025	2005
3069896	DISPLAY UNIT	6/6/2005	56472	SONY CORP OF AMERICA	FWD42LX1	2000218	GS-023	N305	7025	2005
3069897	DISPLAY UNIT	6/6/2005	56472	SONY CORP OF AMERICA	FWD42LX1	2000225	GS-023	N305	7025	2005
3069898	DISPLAY UNIT	6/6/2005	56472	SONY CORP OF AMERICA	FWD42LX1	2000311	GS-023	N305	7025	2005
3069904	COMPUTER LAPTOP	6/7/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP15L	9K4CM71	GS-023	W426	7021	2005

3069909	SERVER	6/8/2005	28480	HEWLETT-PACKARD CO	DS25RM	AY52300115	GS-028	N136	7035	2005
3069913	COMPUTER LAPTOP	6/6/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP05S	7GG3M71	GS-HOME	#	7021	2005
3069921	DISK DRIVE UNIT	6/8/2005	1C1X5	RAID INC	EF8U3D	0504DT138681A	GS-032	C101Q	7025	2005
3069922	DISK DRIVE UNIT	6/8/2005	1C1X5	RAID INC	EF8U3D	0504DT138681B	GS-032	C101Q	7025	2005
3070026	PRINTER ADP LASER	3/1/2006	28480	HEWLETT-PACKARD CO	C3917A	USKB069441	GS-023	N409	7025	2004
3070065	PRINTER ADP LASER	3/4/2004	17623	XEROX CORP	PHASER850DT	WYP0S2138	GS-028	W271	7025	2004
3070074	COMPUTER LAPTOP	3/16/2006	58839	APPLE COMPUTER INC	A1150	W8609D0DVJ1	GS-023	N407	7021	2006
3070144	COMPUTER LAPTOP	6/14/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP14L	GVLHP71	GS-023	N305	7021	2005
3070159	PRINTER ADP LASER	6/16/2005	28480	HEWLETT-PACKARD CO	Q1322A	JPLBK02482	GS-021	C129	7025	2005
3070203	COMPUTER MICRO	6/22/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	DHM	B3XDR71	GS-033	B327	7021	2005
3070230	DISPLAY UNIT	6/27/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	2005FPW	OT6130483235611	GS-023	S120H	7025	2005
3070240	COMPUTER MICRO	6/28/2005	7X430	SUN MICROSYSTEMS INC	SUN BLADE 2500	FE51940043	GS-023	N305	7021	2005
3070266	COMPUTER MICRO	7/1/2005	28480	HEWLETT-PACKARD CO	DC7600C/P4	2UA5260216	GS-023	N305	7021	2005
3070269	DISPLAY UNIT	7/5/2005	58839	APPLE COMPUTER INC	A1081	2A5193PAPKK	GS-021	247	7025	2005
3070282	COMPUTER LAPTOP	7/6/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP11L	3LGMS71	GS-021	33	7021	2005
3070284	TRANSPORT MAGNETIC TAPE	7/5/2005	0JC11	QUANTUM CO	L-300	MXS5D00830	GS-028	N136	7025	2005
3070297	COMPUTER LAPTOP	7/6/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP15L	1GKTS71	GS-033	A425	7021	2005
3070298	COMPUTER LAPTOP	7/6/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP15L	5GKTS71	GS-033	A425	7021	2005
3070308	COMPUTER MICRO	7/8/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	63XPT71	GS-023	N305	7021	2005
3070309	COMPUTER MICRO	7/8/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	83XPT71	GS-023	N305	7021	2005
3070318	COMPUTER MICRO	7/11/2005	58839	APPLE COMPUTER INC	A1047	G85241ZQRU3	GS-021	33	7021	2005

3070351	ELECTRONIC CIRCUIT BOARD	6/20/2005	ESMTC	ESSEMTEC AG	EXPERT-M	46600	GS-034	C274	5998	2004
3070377	COMPUTER MICRO	5/27/2005	58839	APPLE COMPUTER INC	MACMINI	YM52306XRH6	GS-007	49	7021	2005
3070386	COMPUTER LAPTOP	7/19/2005	AR085	LINUX COMPUTER SYSTEM	LC24464	ZS258KA55170034	GS-034	C181	7021	2005
3070543	COMPUTER MICRO	7/18/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	WHM	1VJTV71	GS-023	N305	7021	2005
3070595	COMPUTER LAPTOP	7/25/2005	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP11L	HMPDY71	GS-032	S033	7021	2005
3070630	COMPUTER MICRO	7/28/2005	28480	HEWLETT-PACKARD CO	PS988AV	2UA5290XVQ	GS-023	N305	7021	2005
3070631	COMPUTER MICRO	7/28/2005	28480	HEWLETT-PACKARD CO	PS988AV	2UA5290XVR	GS-023	N305	7021	2005
3070635	COMPUTER LAPTOP	8/1/2005	58839	APPLE COMPUTER INC	A1106	W85310D0SQ7	GS-034	S320	7021	2005
3070837	COMPUTER LAPTOP	3/31/2006	S0482	SONY CORP	VGN-FE590	3000092	GS-021	247	7021	2006
3070907	COMPUTER MICRO	4/27/2006	28480	HEWLETT-PACKARD CO	DU935AV	2UA6160FYH	GS-023	N305	7021	2006
3070910	COMPUTER MICRO	4/27/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	1X4GW91	GS-023	N407	7021	2006
3070916	COMPUTER / DISPLAY	4/28/2006	58839	APPLE COMPUTER INC	A1174	QP61313FU2S	GS-034	S280	7021	2006
3070966	DISPLAY UNIT	5/8/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	2405FPW	DT61334663363T0	GS-016	008E	7025	2006
3070979	COMPUTER MICRO	5/11/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCNE	8LMXY91	GS-028	W237	7021	2006
3071057	COMPUTER LAPTOP	5/15/2006	S0482	SONY CORP	VGN-SZ140	R514331	GS-088	150	7021	2006
3071073	CAMERA DIGITAL	4/20/2006	S0482	SONY CORP	XCD-SX910	102872	GS-011	S032	6720	2006
3071094	COMPUTER MICRO MINI	5/18/2006	58839	APPLE COMPUTER INC	A1103	YM52857ERHR	GS-007	53	7021	2006
3071139	PRINTER ADP LASER	5/19/2006	28480	HEWLETT-PACKARD CO	Q5403A	CNGXD62507	GS-023	N218T	7025	2006
3071227	COMPUTER LAPTOP	6/1/2006	58839	APPLE COMPUTER INC	A1181	4H6220GZVMN	GS-023	N305	7021	2006
3071228	COMPUTER MICRO	5/26/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCSM	3GDT1B1	GS-034	E109	7021	2006
3071249	DISPLAY UNIT	6/2/2006	4L610	PIONEER ELECTRIC & RESEARCH	PDP 505CMX	FBSS105930UJ	GS-033	A425	7025	2006

3071309	COMPUTER MICRO	6/15/2006	28480	HEWLETT-PACKARD CO	XW9300	2UA62314H6	GS-023	N305	7021	2006
3071405	COMPUTER MICRO	6/19/2006	6X080	SYSTEMAX	VENTURE S524RTS	106242437	GS-032	S048A	7021	2006
3071407	COMPUTER MICRO	6/19/2006	6X080	SYSTEMAX	VENTURE S524RTS	106242438	GS-032	S181	7021	2006
3071414	PRINTER ADP LASER	6/6/2006	LEXMK	LEXMARK INTERNATIONAL INC	C762N	940KY1B	GS-007	123	7025	2006
3071425	COMPUTER MICRO	6/21/2006	1TRY0	ADVANCED CLUSTERING TECHNOLOGI	N/A	323541	GS-034	C160	7021	2006
3071465	SERVER	6/29/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMM01	4Q777B1	GS-AEROSP	502	7035	2006
3071475	SERVER	6/30/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMM01	2F597B1	GS-AEROSP	502	7035	2006
3071497	COMPUTER MICRO	7/5/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCD0	G7VS7B1	GS-023	N305	7021	2006
3071498	COMPUTER MICRO MINI	6/30/2006	58839	APPLE COMPUTER INC	A1176	G862546TU39	GS-028	N144	7021	2006
3071518	DISPLAY UNIT	7/3/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	XTV	0GK20571618654G	GS-034	E307	7025	2006
3071530	COMPUTER LAPTOP	7/7/2006	0G3K8	GATEWAY COMPANIES INC	M255G	36794018	GS-034	E103	7021	2006
3075324	COMPUTER MICRO	7/24/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCSM	HVJWCB1	GS-032	31	7021	2006
3075338	COMPUTER MICRO	7/24/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCNE	63FWCB1	GS-033	H108	7021	2006
3075343	COMPUTER MICRO	7/25/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	WHL	H3FPCB1	GS-034	W276	7021	2006
3075496	PRINTER ADP LASER	7/27/2006	28480	HEWLETT-PACKARD CO	C8547A	JPNJB04682	GS-033	F105	7025	2006
3075508	COMPUTER LAPTOP	8/1/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP05XB	11X0HB1	GS-033	A205	7021	2006
3075559	DISPLAY UNIT	11/28/2006	58839	APPLE COMPUTER INC	A1081	2A6441G5VFZ	GS-022	10	7025	2006
3075573	COMPUTER LAPTOP	12/4/2006	58839	APPLE COMPUTER INC	A1211	W86481NHW0L	GS-021	123	7021	2006
3075576	COMPUTER MICRO MINI	12/4/2006	58839	APPLE COMPUTER INC	A1176	G864807ZW0D	GS-022	10	7021	2006
3075628	DISPLAY UNIT	12/22/2006	58839	APPLE COMPUTER INC	A1082	2A64423FUGO	GS-033	A425	7025	2006

3075629	DISPLAY UNIT	12/22/2006	58839	APPLE COMPUTER INC	A1082	2A64423GUGO	GS-033	A425	7025	2006
3075630	DISPLAY UNIT	12/22/2006	58839	APPLE COMPUTER INC	A1082	2A6442EDUGO	GS-033	D012	7025	2006
3075647	COMPUTER MICRO	12/29/2006	58839	APPLE COMPUTER INC	A1186	G865111KUPZ	GS-033	A425	7021	2006
3075655	COMPUTER MICRO	1/3/2007	58839	APPLE COMPUTER INC	A1186	G86512VXUPZ	GS-033	D012	7021	2006
3075660	COMPUTER LAPTOP	1/5/2007	58839	APPLE COMPUTER INC	A1211	W870105GW0K	GS-034	E338	7021	2006
3075672	COMPUTER MICRO	1/11/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	HGSDCC1	GS-023	C432	7021	2006
3075675	COMPUTER MICRO	1/11/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	DGSDCC1	GS-023	W231	7021	2006
3075711	PRINTER ADP LASER	1/18/2007	28480	HEWLETT-PACKARD CO	Q5983A	CNYCH52788	GS-023	N218T	7025	2006
3075737	COMPUTER LAPTOP	9/20/2006	58839	APPLE COMPUTER INC	A1150	W86371XYVWZ	GS-021	265	7021	2006
3075746	TRANSPORT MAGNETIC TAPE	9/21/2006	0EZ71	OVERLAND DATA INC	TKZ61-CXSE	2K64220890	GS-028	N136	7025	2006
3075749	COMPUTER MICRO	9/21/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	B621TB1	GS-028	N136	7021	2006
3075750	COMPUTER MICRO	9/21/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	9621TB1	GS-028	N136	7021	2006
3075768	COMPUTER LAPTOP	9/22/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP18L	4FW1TB1	GS-034	C183	7021	2006
3075786	COMPUTER MICRO	9/25/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	2NG6TB1	GS-028	N134	7021	2006
3075788	DISPLAY UNIT	9/25/2006	SAMUN	SAMSUNG	244T	BR24HCGL801200	GS-HOME	#	7025	2006
3075816	COMPUTER MICRO	9/29/2006	58839	APPLE COMPUTER INC	A1186	G863861ZUPZ	GS-033	B113	7021	2006
3075818	SERVER	9/28/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	SMM01	HHQZVB1	GS-033	H111	7035	2006
3075852	SERVER	10/10/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	AMP01	3SW5WB1	GS-034	C184	7035	2006
3075883	COMPUTER MICRO	10/3/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	6FLSXB1	GS-033	B111	7021	2006
3075886	COMPUTER MICRO	10/10/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCD0	4BPZWB1	GS-033	B111	7021	2006

3075892	COMPUTER MICRO	10/10/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	6WVDXB1	GS-034	E107	7021	2006
3075894	COMPUTER MICRO	10/10/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	9WVDXB1	GS-028	N136	7021	2006
3075895	COMPUTER MICRO	10/10/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	7WVDXB1	GS-028	N136	7021	2006
3075903	DISPLAY UNIT	10/6/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	2407WFP	CC3024663468021	GS-033	B111	7025	2006
3075904	COMPUTER MICRO	10/9/2006	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCD0	JPG5WB1	GS-028	N136	7021	2006
3076186	SPINNING ROTOR GAUGE	10/8/1985	23582	MKS INSTRUMENTS INC	SRG-2-232	36714-1	GS-033	D121A	6640	1985
3076202	COMPUTER LAPTOP	11/14/2006	58839	APPLE COMPUTER INC	A1104	4H5260BLRJ5	GS-007	142	7021	2006
3076541	DISPLAY UNIT	1/22/2007	58839	APPLE COMPUTER INC	A1083	CY7020E3UG1	GS-028	S114	7025	2006
3076583	COMPUTER LAPTOP	1/25/2007	58839	APPLE COMPUTER INC	A1212	W86521RRW0J	GS-034	W386	7021	2006
3076587	COMPUTER MICRO	1/26/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	8TZCF1	GS-021	81	7021	2006
3076602	COMPUTER MICRO	1/30/2007	1ELQ6	XI COMPUTER CORP	MTOWERDP	29336	GS-034	C183	7021	2006
3076644	SERVER	2/9/2007	1M1T4	PENGUIN COMPUTING INC.	ALTUS600	P1237020013	GS-034	C184	7035	2006
3076720	DISPLAY UNIT	1/29/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	2005FPW	DTC6130483235BG	GS-023	W415	7025	2005
3076852	COMPUTER MICRO	2/28/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	81RFLC1	GS-028	W279	7021	2007
3076854	DISPLAY UNIT	3/1/2007	0G3K8	GATEWAY COMPANIES INC	FPD2485W	MGQ71D0N00402	GS-028	W279	7025	2007
3076893	COMPUTER LAPTOP	3/6/2007	58839	APPLE COMPUTER INC	A1181	4H7080DSWGN	GS-028	W246	7021	2007
3076901	DISPLAY UNIT	3/8/2007	S7022	SAMSUNG ELECTRONICS	244T	BR24HVZ9101032	GS-028	W237	7025	2007
3076903	DISPLAY UNIT	3/8/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	2407FP	DCC3024663472J1	GS-021	48	7025	2007
3076904	DISPLAY UNIT	3/8/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	2407FP	DCC3024663472J1	GS-021	L108	7025	2007
3076929	COMPUTER MICRO	3/9/2007	58839	APPLE COMPUTER INC	A1186	G870935SUPZ	GS-021	131D	7021	2007

3077012	COMPUTER MICRO	3/20/2007	0G3K8	GATEWAY COMPANIES INC	M685E	GWTF7110NZF	GS-028	W279	7021	2007
3077021	COMPUTER LAPTOP	3/26/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP18L	GFFZPC1	GS-HOME	#	7021	2007
3077023	COMPUTER MICRO	3/27/2007	58839	APPLE COMPUTER INC	A1186	G87120M4UPZ	GS-033	B111	7021	2007
3077024	COMPUTER LAPTOP	3/28/2007	58839	APPLE COMPUTER INC	A1181	W87121MTWGP	GS-026	1	7021	2007
3077037	COMPUTER MICRO	3/28/2007	0G3K8	GATEWAY COMPANIES INC	E-6610D	38988263	GS-032	N125	7021	2007
3077040	DISPLAY UNIT	3/29/2007	58839	APPLE COMPUTER INC	A1082	2A71D237UG0	GS-033	B111	7025	2007
3077144	SCANNER	4/13/2007	61722	EPSON AMERICA INC	E10000XL-PH	FVS009167	GS-033	F105	7025	2007
3077348	SERVER	6/15/2007	PSSCL	PSSC LABS	S-FW-A222-250-8-10	355444	GS-028	W220	7035	2007
3077349	DISPLAY UNIT RACKMOUNT	6/15/2007	PSSCL	PSSC LABS	S-FW-A222-250-8-10	355442	GS-028	W220	7025	2007
3077350	DISPLAY UNIT RACKMOUNT	6/15/2007	PSSCL	PSSC LABS	S-FW-A222-250-8-10	355443	GS-028	W220	7025	2007
3077362	PRINTER ADP LASER	6/20/2007	28480	HEWLETT-PACKARD CO SHUTTLE INCORPORATED	Q6500A	CNLJP83843	GS-033	H108	7025	2007
3077475	COMPUTER MICRO	4/11/2007	3Y5T1	INCORPORATED	S093G	D32G2B-L3TH00-1	GS-033	LOBBY	7021	2006
3077737	SWITCHING UNIT	8/22/2007	1G5W1	EXTREME NETWORKS	16157	0730G00095	GS-032	S036D	5895	2007
3077738	SWITCHING UNIT	8/22/2007	1G5W1	EXTREME NETWORKS	16157	0730G00155	GS-032	S036D	5895	2007
3077739	SWITCHING UNIT	8/22/2007	1G5W1	EXTREME NETWORKS	16157	0730G00094	GS-032	S036D	5895	2007
3077740	SWITCHING UNIT	8/22/2007	1G5W1	EXTREME NETWORKS	16157	0730G00093	GS-032	S036D	5895	2007
3077785	COMPUTER MICRO	8/29/2007	1TRY0	ADVANCED CLUSTERING TECHNOLOGI	N/A	324897	GS-033	D121A	7021	2007
3077790	COMPUTER MICRO	8/31/2007	58839	APPLE COMPUTER INC	A1186	YM7020EZUQ2	GS-022	108	7021	2007
3077896	MACHINE DRILLING	7/9/2007	1R2F3	CURRENT EDM INC.	ST300	83284	GS-007	59	3413	2007
3077993	COMPUTER MICRO	9/4/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCSM	FX5SHD1	GS-034	W320	7021	2007
3077994	DISPLAY UNIT	9/4/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	3007WFP-XTV	DNK4917248577PG	GS-034	E341	7025	2007
3077995	COMPUTER MICRO	9/4/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCSM	3Y5SHD1	GS-034	E341	7021	2007

3078012	SERVER	9/11/2007	0GX96	CISCO SYSTEMS INC	WS-C4506	FOX1104002M	GS-021	89	7035	2007
3078047	COMPUTER MICRO MINI	9/14/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCSM	7C0PND1	GS-023	S120H	7021	2007
3078057	DISPLAY UNIT	9/14/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	2407WFPB	GM5044663478V1	GS-023	S120H	7025	2007
3078115	COMPUTER LAPTOP	9/24/2007	58839	APPLE COMPUTER INC	A1226	W87380KNXAG	GS-034	W278	7021	2007
3078137	TAPE LIBRARY	9/24/2007	0JC11	QUANTUM CO	PX502	QP0725BDC00137	GS-032	C101	7025	2007
3078153	COMPUTER MICRO	9/28/2007	1TRY0	ADVANCED CLUSTERING TECHNOLOGI	N/A	324935	GS-034	W274	7021	2007
3078213	SERVER	10/4/2007	7X430	SUN MICROSYSTEMS INC	SUN FIRE V240	0735FMN059	GS-026	153	7035	2007
3078216	COMPUTER MICRO MINI	10/5/2007	58839	APPLE COMPUTER INC	A1176	YM7323ETYL1	GS-032	C101	7021	2007
3078218	COMPUTER / DISPLAY	10/5/2007	58839	APPLE COMPUTER INC	A1224	W8739BT3X85	GS-032	N148	7021	2007
3078220	COMPUTER / DISPLAY	10/5/2007	58839	APPLE COMPUTER INC	A1224	W8739BSTX85	GS-032	S159	7021	2007
3078256	COMPUTER MICRO	8/24/2007	1TRY0	ADVANCED CLUSTERING TECHNOLOGI	NONE	324900	GS-022	106	7021	2007
3078299	SERVER	9/11/2007	09VQ4	INTEGRATED IT SOLUTIONS INC	A4SS16-4U	655740-01	GS-032	C101	7035	2007
3078300	SERVER	9/11/2007	09VQ4	INTEGRATED IT SOLUTIONS INC	A4SS16-4U	655740-03	GS-032	C101	7035	2007
3078301	SERVER	9/11/2007	09VQ4	INTEGRATED IT SOLUTIONS INC	A4SS16-4U	655740-02	GS-032	C101	7035	2007
3078302	SERVER	9/7/2007	09VQ4	INTEGRATED IT SOLUTIONS INC	NONE	655843	GS-032	C101	7035	2007
3078303	SERVER	9/7/2007	09VQ4	INTEGRATED IT SOLUTIONS INC	NONE	655834-01	GS-032	C101	7035	2007
3078304	SERVER	9/7/2007	09VQ4	INTEGRATED IT SOLUTIONS INC	NONE	655834-02	GS-032	C101	7035	2007
3078305	SERVER	9/7/2007	09VQ4	INTEGRATED IT SOLUTIONS INC	NONE	655821-03	GS-032	C101	7035	2007
3078306	SERVER	9/7/2007	09VQ4	INTEGRATED IT SOLUTIONS INC	NONE	655821-01	GS-032	C101	7035	2007

3078307	SERVER	9/7/2007	09VQ4	INTEGRATED IT SOLUTIONS INC	NONE	655821-02	GS-032	C101	7035	2007
3078312	SWITCHING UNIT	8/16/2007	1TZN1	SMC NETWORKS INC	8708	T170504196	GS-028	W271	5895	2007
3078365	SERVER APPLIANCE	10/11/2007	0GX96	CISCO SYSTEMS INC	CS-MARS	CS-MARS-20-K9	GS-032	C101	7035	2007
3078464	COMPUTER MICRO	10/23/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCSM	F28G7D1	GS-032	N148	7021	2007
3078467	COMPUTER MICRO	10/23/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCSM	428GYD1	GS-032	S130	7021	2007
3078469	COMPUTER MICRO	10/23/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCSM	628GYD1	GS-032	N148	7021	2007
3078735	COMPUTER LAPTOP	11/20/2007	58839	APPLE COMPUTER INC	A1229	W874219HXA9	GS-021	L108	7021	2007
3078766	DISPLAY UNIT	12/3/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	XTV	138GWC1	GS-034	E341	7025	2007
3078780	GENERATOR	12/7/2007	80009	TEKTRONIX INC	AFG3252	C020406	GS-034	C238A	6625	2007
3079016	COMPUTER LAPTOP	12/17/2007	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP18L	FZVZ7F1	GS-032	S130	7021	2007
3079026	COMPUTER MICRO	12/24/2007	58839	APPLE COMPUTER INC	A1186	G87510GH0GP	GS-034	W276	7021	2007
3079034	COMPUTER MICRO	1/2/2008	1TRY0	ADVANCED CLUSTERING TECHNOLOGI	N/A	325185	GS-033	D111A	7021	2007
3079050	COMPUTER / DISPLAY	1/4/2008	58839	APPLE COMPUTER INC	A1224	QP74610JX85	GS-032	N126	7021	2007
3079051	COMPUTER / DISPLAY	1/4/2008	58839	APPLE COMPUTER INC	A1224	QP7460R5X85	GS-032	S159	7021	2007
3079066	COMPUTER LAPTOP	1/9/2008	58839	APPLE COMPUTER INC	A1181	W88012UGZ66	GS-021	125	7021	2007
3079077	COMPUTER / DISPLAY	1/13/2008	58839	APPLE COMPUTER INC	A1224	W8751840X85	GS-032	N148	7021	2008
3079114	COMPUTER LAPTOP	1/22/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP04X	91DFGF1	GS-032	N126A	7021	2007
3079160	COMPUTER MICRO	1/18/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	DXBZGF1	GS-028	N136	7021	2007
3079171	COMPUTER LAPTOP	1/29/2008	58839	APPLE COMPUTER INC	A1181	W8804140267	GS-HOME	#	7021	2008
3079200	DISPLAY UNIT	2/5/2008	58839	APPLE COMPUTER INC	A1082	2A7513MQXMN	GS-033	A425	7025	2008

3079618	COMPUTER MICRO	3/10/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	1SYPSF1	GS-023	N305	7021	2008
3079687	PRINTER ADP LASER	3/27/2008	26921	XEROX CORP	8560/DN	FBT150495	GS-021	253	7025	2007
3079742	DISPLAY UNIT	4/16/2008	0V618	VIEWSONIC CORP/ DIV KEYPOINT	VS11531	QFG075200811	GS-023	N409	7025	2008
3079818	COMPUTER LAPTOP	5/19/2008	58839	APPLE COMPUTER INC	A1237	W881804UY5G	GS-023	N407	7021	2008
3079835	SCANNER	5/15/2008	GS023	E-IMAGEDATA CORP	SCANPRO 300I	54263	GS-028	N189	7025	2008
3079862	DISPLAY UNIT	5/23/2008	58839	APPLE COMPUTER INC	A1082	2A81106GXMN	GS-021	191	7025	2008
3079890	COMPUTER MICRO	6/3/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	5MG1DG1	GS-034	C181	7021	2008
3079955	PRINTER ADP LASER	7/2/2008	28480	HEWLETT-PACKARD CO	Q7812A	CNJ1D31503	GS-016	008E	7025	2008
3080048	COMPUTER LAPTOP	6/23/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	PP05XA	BL66MG1	GS-033	D106	7021	2008
3080073	COMPUTER MICRO	6/24/2008	58839	APPLE COMPUTER INC	A1186	G88251ASXYL	GS-033	D012	7021	2008
3080091	COMPUTER MICRO	6/27/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	DC01L	1JRVNB1	GS-034	W273	7021	2008
3080154	COMPUTER LAPTOP	7/11/2008	391R5	LENOVO INC	6476-CTO	L3A4602	GS-021	33	7021	2008
3080166	COMPUTER / DISPLAY	7/15/2008	58839	APPLE COMPUTER INC	A1225	QP8280110KM	GS-033	E112	7021	2008
3080218	COMPUTER MICRO	7/24/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	93Q9VG1	GS-023	N305	7021	2008
3080219	COMPUTER MICRO	7/31/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	B3Q9VG1	GS-023	N305	7021	2008
3080220	COMPUTER MICRO	7/31/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	83Q9VG1	GS-023	N305	7021	2008
3080227	COMPUTER MICRO	7/23/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	DM53VG1	GS-034	C181	7021	2008
3080236	COMPUTER MICRO	7/28/2008	1TRY0	ADVANCED CLUSTERING TECHNOLOGI	N/A	69951000003	GS-028	S206	7021	2008
3080237	COMPUTER MICRO	7/28/2008	1TRY0	ADVANCED CLUSTERING TECHNOLOGI	N/A	69951000006	GS-028	W205	7021	2008
3080254	COMPUTER MICRO	7/29/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	DC01L	1KWYXG1	GS-034	E105	7021	2008

3080258	TELEVISIONS HOME TYPE	7/22/2008	56472	SONY CORP OF AMERICA	FWD50PX2/SK25YQ	6311693	GS-007	136	7730	2008
3080335	COMPUTER MICRO	8/6/2008	28480	HEWLETT-PACKARD CO	WSXW4600	2UA8310SRF	GS-023	N305	7021	2008
3080336	COMPUTER MICRO	8/13/2008	28480	HEWLETT-PACKARD CO	WSXW4600	2UA8310SRG	GS-023	N305	7021	2008
3080343	COMPUTER MICRO MINI	8/8/2008	58839	APPLE COMPUTER INC	A1176	YM81812DYL2	GS-007	115	7021	2008
3080365	COMPUTER MICRO	8/11/2008	58839	APPLE COMPUTER INC	A1225	QP8310LB0KM	GS-034	C187	7021	2008
3080368	COMPUTER MICRO	8/11/2008	58839	APPLE COMPUTER INC	A1186	G88320UMXYL	GS-033	A425	7021	2008
3080444	NETWORK STORAGE SERVER	6/8/2008	1LCH7	DATA DIRECT NETWORKS INC	SFB20-16-R	3802	GS-032	S009	7025	2007
3080452	NETWORK STORAGE SERVER	8/10/2008	1LCH7	DATA DIRECT NETWORKS INC	SFB2016-R	3369	GS-032	S009	7025	2007
3080464	COMPUTER MICRO	8/5/2008	1TRY0	ADVANCED CLUSTERING TECHNOLOGI	NONE	325802	GS-022	106	7021	2008
3080465	COMPUTER MICRO	8/5/2008	1TRY0	ADVANCED CLUSTERING TECHNOLOGI	NONE	302801	GS-022	106	7021	2008
3080501	DISPLAY UNIT	12/7/2007	62803	NEC INFORMATION SYSTEMS INC	LCD2190UXP-BK	7T117207YA	GS-034	W276	7025	2007
3080552	SERVER	5/15/2008	1Z004	SILICON GRAPHICS INC	ALTIX 450	W0000743	GS-028	E220C	7035	2008
3080565	DISK ARRAY	7/25/2008	L0054	SWISS INSTRUMENTS LTD	G SPEED ES	S505130080	GS-033	D012	7025	2008
3080667	DISPLAY UNIT	8/29/2008	58839	APPLE COMPUTER INC	A1081	2A8231VAXMM	GS-021	253B	7025	2008
3080685	COMPUTER MICRO	9/2/2008	1TRY0	ADVANCED CLUSTERING TECHNOLOGI	N/A	325813	GS-022	2	7021	2008
3080754	COMPUTER MICRO	9/9/2008	58839	APPLE COMPUTER INC	A1186	G883609WXYL	GS-033	H108	7021	2008
3080755	COMPUTER MICRO	9/9/2008	58839	APPLE COMPUTER INC	A1186	G883609XXYL	GS-033	H108	7021	2008
3080788	COMPUTER MICRO	11/28/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCDO	8QSRQH1	GS-016W	N250U	7021	2008

3080794	COMPUTER MICRO	12/2/2008	1TRY0	ADVANCED CLUSTERING TECHNOLOGI	N/A	325953	GS-022	4	7021	2008
3080951	COMPUTER LAPTOP	9/25/2008	58839	APPLE COMPUTER INC	A1260	W88381X0YJZ	GS-021	46	7021	2008
3080995	COMPUTER LAPTOP	10/2/2008	58839	APPLE COMPUTER INC	A1181	W8835T9A0P1	GS-021	44	7021	2008
3081032	DISPLAY UNIT	10/3/2008	58839	APPLE COMPUTER INC	A1081	2A8301TDXMM	GS-023	N305	7025	2008
3081033	DISPLAY UNIT	10/3/2008	58839	APPLE COMPUTER INC	A1081	2A8301TNXMM	GS-023	N305	7025	2008
3081060	COMPUTER MICRO	10/10/2008	58839	APPLE COMPUTER INC	A1186	G88402HKXYL	GS-023	N305	7021	2008
3081061	COMPUTER MICRO	10/10/2008	58839	APPLE COMPUTER INC	A1186	G88402HLXYL	GS-023	N305	7021	2008
3081067	COMPUTER / DISPLAY	10/10/2008	58839	APPLE COMPUTER INC	A1225	QP8400BZE7	GS-034	W278	7021	2008
3081095	COMPUTER MICRO	10/17/2008	THINK	THINK CP TECH	HINTANK Q STATION	6545101081	GS-032	S043	7021	2008
3081096	COMPUTER MICRO	10/17/2008	THINK	THINK CP TECH	HINTANK Q STATION	64545101082	GS-032	S043	7021	2008
3081656	COMPUTER MICRO	12/17/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	PPO	CTVPP11	GS-034	E105	7021	2002
3081942	COMPUTER MICRO	11/4/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	FFFNNH1	GS-021	33	7021	2008
G041567	GLOVE BOX	10/25/1990	94841	LABCONCO CORP	50004	207358	GS-007	59	6685	1990
G044576	DISK DRIVE UNIT	9/20/1990	ALPHT	ALPHATRONIX	INSPIRE	1089	GS-002	W124	7025	1990
	4	7021	2008	6601	CHARLES A PADGETT	\$1,438.00				
3080951	COMPUTER LAPTOP	9/25/2008	58839	APPLE COMPUTER INC	A1260	W88381X0YJZ	GS-021	46	7021	2008
3080995	COMPUTER LAPTOP	10/2/2008	58839	APPLE COMPUTER INC	A1181	W8835T9A0P1	GS-021	44	7021	2008
3081032	DISPLAY UNIT	10/3/2008	58839	APPLE COMPUTER INC	A1081	2A8301TDXMM	GS-023	N305	7025	2008
3081033	DISPLAY UNIT	10/3/2008	58839	APPLE COMPUTER INC	A1081	2A8301TNXMM	GS-023	N305	7025	2008

3081060	COMPUTER MICRO	10/10/2008	58839	APPLE COMPUTER INC	A1186	G88402HKXYL	GS-023	N305	7021	2008
3081061	COMPUTER MICRO	10/10/2008	58839	APPLE COMPUTER INC	A1186	G88402HLXYL	GS-023	N305	7021	2008
3081067	COMPUTER / DISPLAY	10/10/2008	58839	APPLE COMPUTER INC	A1225	QP8400BZE7	GS-034	W278	7021	2008
3081095	COMPUTER MICRO	10/17/2008	THINK	THINK CP TECH	HINTANK Q STATION	6545101081	GS-032	S043	7021	2008
3081096	COMPUTER MICRO	10/17/2008	THINK	THINK CP TECH	HINTANK Q STATION	64545101082	GS-032	S043	7021	2008
3081656	COMPUTER MICRO	12/17/2009	1GE11	DELL COMPUTER CORP F-PC'S LTD	PPO	CTVPP11	GS-034	E105	7021	2002
3081942	COMPUTER MICRO	11/4/2008	1GE11	DELL COMPUTER CORP F-PC'S LTD	DCTA	FFFNNH1	GS-021	33	7021	2008
G041567	GLOVE BOX	10/25/1990	94841	LABCONCO CORP	50004	207358	GS-007	59	6685	1990
G044576	DISK DRIVE UNIT	9/20/1990	ALPHT	ALPHATRONIX	INSPIRE	1089	GS-002	W124	7025	1990

Financial Management Reporting Requirements

General

Financial Management Reports shall be submitted by the Contractor on the NASA 533 series reports, in accordance with the instructions on the reverse of the forms, NASA Procedural Requirements NPR 9501.2D entitled "NASA Contractor Financial Management Reporting, dated May 23, 2001, and additional instructions issued by the Contracting Officer.

a. Level of Detail

The Contractor's 533 Reports shall contain a summary of total contract costs, as well as a separate 533 sheet for each Work Activity Plan (WAP) element of the Statement of Work Addendum. The reports shall contain a breakdown of each service area by the elements of cost listed below.

b. Distribution

The Contractor shall distribute 533 reports to each addressee indicated in the Basic Contract Clause G.1 "Financial Management Reporting." The 533M reports shall be distributed not later than the tenth (10th) working day following the close of the contractors' monthly accounting period. The 533Q reports shall be distributed not later than the 15th day of the month preceding the quarter being reported.

c. Reporting Requirements

Each report sheet shall provide costs data for reporting categories presented below:

1. Prime Direct Labor Hours:

Onsite
(List applicable labor categories)

Offsite
(List applicable labor categories)

Total Direct Labor Hours Onsite
Total Direct Labor Hours Offsite
Total Prime Direct Labor Hours

2. Subcontractor Direct Labor Hours:

Onsite

(List applicable labor categories)

Offsite

(List applicable labor categories)

Total Direct Labor Hours Onsite

Total Direct Labor Hours Offsite

Total Subcontractor Direct Labor Hours

3. Prime Direct Labor Dollars:

Onsite

(List according to applicable labor categories)

Offsite

(List according to applicable labor categories)

Total Direct Labor Dollars Onsite

Total Direct Labor Dollars Offsite

Total Prime Direct Labor Dollars

4. Overhead Expenses:

Onsite Overhead

Offsite Overhead

Total Prime Overhead

5. Other Direct Costs (ODCs):

a. Subcontracts (list separately)

b. Material

c. Travel

d. Other (specify)

Total ODCs

6. Subtotal (Labor, Overhead & ODCs)

7. G&A Expense

8. Total Estimated Cost
9. Fixed Fee
10. Total Cost-Plus-Fixed-Fee (CPFF)

WD 05-2103 (Rev.-10) was first posted on www.wdol.gov on 06/22/2010

REGISTER OF WAGE DETERMINATIONS UNDER THE SERVICE CONTRACT ACT By direction of the Secretary of Labor		U.S. DEPARTMENT OF LABOR EMPLOYMENT STANDARDS ADMINISTRATION WAGE AND HOUR DIVISION WASHINGTON D.C. 20210
		Wage Determination No.: 2005-2103
		Revision No.: 10
Shirley F. Ebbesen Division of		
Director Wage Determinations		Date Of Revision: 06/15/2010

States: District of Columbia, Maryland, Virginia

Area: District of Columbia Statewide

Maryland Counties of Calvert, Charles, Frederick, Montgomery, Prince George's, St Mary's

Virginia Counties of Alexandria, Arlington, Fairfax, Falls Church, Fauquier, King George, Loudoun, Prince William, Stafford

Fringe Benefits Required Follow the Occupational Listing

OCCUPATION CODE - TITLE	FOOTNOTE	RATE
01000 - Administrative Support And Clerical Occupations		
01011 - Accounting Clerk I		15.08
01012 - Accounting Clerk II		16.92
01013 - Accounting Clerk III		22.30
01020 - Administrative Assistant		31.41
01040 - Court Reporter		21.84
01051 - Data Entry Operator I		14.38
01052 - Data Entry Operator II		15.69
01060 - Dispatcher, Motor Vehicle		17.87
01070 - Document Preparation Clerk		14.21
01090 - Duplicating Machine Operator		14.21
01111 - General Clerk I		14.88
01112 - General Clerk II		16.24
01113 - General Clerk III		18.74
01120 - Housing Referral Assistant		25.29
01141 - Messenger Courier		13.62
01191 - Order Clerk I		15.12
01192 - Order Clerk II		16.50
01261 - Personnel Assistant (Employment) I		18.15
01262 - Personnel Assistant (Employment) II		20.32
01263 - Personnel Assistant (Employment) III		22.65
01270 - Production Control Clerk		22.03
01280 - Receptionist		14.43
01290 - Rental Clerk		16.55
01300 - Scheduler, Maintenance		18.07

01311 - Secretary I	18.07
01312 - Secretary II	20.18
01313 - Secretary III	25.29
01320 - Service Order Dispatcher	16.98
01410 - Supply Technician	28.55
01420 - Survey Worker	20.03
01531 - Travel Clerk I	13.29
01532 - Travel Clerk II	14.36
01533 - Travel Clerk III	15.49
01611 - Word Processor I	15.63
01612 - Word Processor II	17.67
01613 - Word Processor III	19.95
05000 - Automotive Service Occupations	
05005 - Automobile Body Repairer, Fiberglass	25.26
05010 - Automotive Electrician	23.51
05040 - Automotive Glass Installer	22.15
05070 - Automotive Worker	22.15
05110 - Mobile Equipment Servicer	19.04
05130 - Motor Equipment Metal Mechanic	24.78
05160 - Motor Equipment Metal Worker	22.15
05190 - Motor Vehicle Mechanic	24.78
05220 - Motor Vehicle Mechanic Helper	18.49
05250 - Motor Vehicle Upholstery Worker	21.63
05280 - Motor Vehicle Wrecker	22.15
05310 - Painter, Automotive	23.51
05340 - Radiator Repair Specialist	22.15
05370 - Tire Repairer	14.44
05400 - Transmission Repair Specialist	24.78
07000 - Food Preparation And Service Occupations	
07010 - Baker	13.85
07041 - Cook I	12.55
07042 - Cook II	14.60
07070 - Dishwasher	10.11
07130 - Food Service Worker	10.66
07210 - Meat Cutter	18.08
07260 - Waiter/Waitress	9.70
09000 - Furniture Maintenance And Repair Occupations	
09010 - Electrostatic Spray Painter	19.86
09040 - Furniture Handler	14.06
09080 - Furniture Refinisher	20.23
09090 - Furniture Refinisher Helper	15.52
09110 - Furniture Repairer, Minor	17.94
09130 - Upholsterer	19.86
11000 - General Services And Support Occupations	
11030 - Cleaner, Vehicles	10.54
11060 - Elevator Operator	10.54
11090 - Gardener	17.52
11122 - Housekeeping Aide	11.83
11150 - Janitor	11.83
11210 - Laborer, Grounds Maintenance	13.07
11240 - Maid or Houseman	11.26

11260 - Pruner	11.58
11270 - Tractor Operator	16.04
11330 - Trail Maintenance Worker	13.07
11360 - Window Cleaner	12.85
12000 - Health Occupations	
12010 - Ambulance Driver	20.41
12011 - Breath Alcohol Technician	20.27
12012 - Certified Occupational Therapist Assistant	23.11
12015 - Certified Physical Therapist Assistant	21.43
12020 - Dental Assistant	17.18
12025 - Dental Hygienist	44.75
12030 - EKG Technician	27.67
12035 - Electroneurodiagnostic Technologist	27.67
12040 - Emergency Medical Technician	20.41
12071 - Licensed Practical Nurse I	19.07
12072 - Licensed Practical Nurse II	21.35
12073 - Licensed Practical Nurse III	24.13
12100 - Medical Assistant	15.01
12130 - Medical Laboratory Technician	18.04
12160 - Medical Record Clerk	17.42
12190 - Medical Record Technician	19.50
12195 - Medical Transcriptionist	18.77
12210 - Nuclear Medicine Technologist	37.60
12221 - Nursing Assistant I	10.80
12222 - Nursing Assistant II	12.14
12223 - Nursing Assistant III	13.98
12224 - Nursing Assistant IV	15.69
12235 - Optical Dispenser	20.17
12236 - Optical Technician	15.80
12250 - Pharmacy Technician	18.12
12280 - Phlebotomist	15.69
12305 - Radiologic Technologist	31.11
12311 - Registered Nurse I	27.64
12312 - Registered Nurse II	33.44
12313 - Registered Nurse II, Specialist	33.44
12314 - Registered Nurse III	40.13
12315 - Registered Nurse III, Anesthetist	40.13
12316 - Registered Nurse IV	48.10
12317 - Scheduler (Drug and Alcohol Testing)	21.73
13000 - Information And Arts Occupations	
13011 - Exhibits Specialist I	19.86
13012 - Exhibits Specialist II	24.61
13013 - Exhibits Specialist III	30.09
13041 - Illustrator I	20.48
13042 - Illustrator II	25.38
13043 - Illustrator III	31.03
13047 - Librarian	33.88
13050 - Library Aide/Clerk	14.21
13054 - Library Information Technology Systems Administrator	30.60
13058 - Library Technician	19.89

13061 - Media Specialist I	18.73
13062 - Media Specialist II	20.95
13063 - Media Specialist III	23.36
13071 - Photographer I	16.65
13072 - Photographer II	18.90
13073 - Photographer III	23.67
13074 - Photographer IV	28.65
13075 - Photographer V	33.76
13110 - Video Teleconference Technician	20.39
14000 - Information Technology Occupations	
14041 - Computer Operator I	18.92
14042 - Computer Operator II	21.18
14043 - Computer Operator III	23.60
14044 - Computer Operator IV	26.22
14045 - Computer Operator V	29.05
14071 - Computer Programmer I	(see 1) 26.36
14072 - Computer Programmer II	(see 1)
14073 - Computer Programmer III	(see 1)
14074 - Computer Programmer IV	(see 1)
14101 - Computer Systems Analyst I	(see 1)
14102 - Computer Systems Analyst II	(see 1)
14103 - Computer Systems Analyst III	(see 1)
14150 - Peripheral Equipment Operator	18.92
14160 - Personal Computer Support Technician	26.22
15000 - Instructional Occupations	
15010 - Aircrew Training Devices Instructor (Non-Rated)	36.47
15020 - Aircrew Training Devices Instructor (Rated)	44.06
15030 - Air Crew Training Devices Instructor (Pilot)	52.81
15050 - Computer Based Training Specialist / Instructor	36.47
15060 - Educational Technologist	35.31
15070 - Flight Instructor (Pilot)	52.81
15080 - Graphic Artist	26.80
15090 - Technical Instructor	25.08
15095 - Technical Instructor/Course Developer	30.67
15110 - Test Proctor	20.20
15120 - Tutor	20.20
16000 - Laundry, Dry-Cleaning, Pressing And Related Occupations	
16010 - Assembler	9.88
16030 - Counter Attendant	9.88
16040 - Dry Cleaner	12.94
16070 - Finisher, Flatwork, Machine	9.88
16090 - Presser, Hand	9.88
16110 - Presser, Machine, Drycleaning	9.88
16130 - Presser, Machine, Shirts	9.88
16160 - Presser, Machine, Wearing Apparel, Laundry	9.88
16190 - Sewing Machine Operator	13.78
16220 - Tailor	14.66
16250 - Washer, Machine	10.88
19000 - Machine Tool Operation And Repair Occupations	
19010 - Machine-Tool Operator (Tool Room)	21.14
19040 - Tool And Die Maker	23.38

21000 - Materials Handling And Packing Occupations	
21020 - Forklift Operator	18.02
21030 - Material Coordinator	22.03
21040 - Material Expediter	22.03
21050 - Material Handling Laborer	13.83
21071 - Order Filler	15.09
21080 - Production Line Worker (Food Processing)	18.02
21110 - Shipping Packer	15.09
21130 - Shipping/Receiving Clerk	15.09
21140 - Store Worker I	11.72
21150 - Stock Clerk	16.86
21210 - Tools And Parts Attendant	18.02
21410 - Warehouse Specialist	18.02
23000 - Mechanics And Maintenance And Repair Occupations	
23010 - Aerospace Structural Welder	27.21
23021 - Aircraft Mechanic I	25.83
23022 - Aircraft Mechanic II	27.21
23023 - Aircraft Mechanic III	28.53
23040 - Aircraft Mechanic Helper	17.54
23050 - Aircraft, Painter	24.73
23060 - Aircraft Servicer	19.76
23080 - Aircraft Worker	21.01
23110 - Appliance Mechanic	21.75
23120 - Bicycle Repairer	14.43
23125 - Cable Splicer	26.02
23130 - Carpenter, Maintenance	21.40
23140 - Carpet Layer	20.49
23160 - Electrician, Maintenance	27.98
23181 - Electronics Technician Maintenance I	24.94
23182 - Electronics Technician Maintenance II	26.47
23183 - Electronics Technician Maintenance III	27.89
23260 - Fabric Worker	19.13
23290 - Fire Alarm System Mechanic	22.91
23310 - Fire Extinguisher Repairer	17.62
23311 - Fuel Distribution System Mechanic	22.81
23312 - Fuel Distribution System Operator	19.38
23370 - General Maintenance Worker	21.43
23380 - Ground Support Equipment Mechanic	25.83
23381 - Ground Support Equipment Servicer	19.76
23382 - Ground Support Equipment Worker	21.01
23391 - Gunsmith I	17.62
23392 - Gunsmith II	20.49
23393 - Gunsmith III	22.91
23410 - Heating, Ventilation And Air-Conditioning Mechanic	23.89
23411 - Heating, Ventilation And Air Conditioning Mechanic (Research Facility)	25.17
23430 - Heavy Equipment Mechanic	22.91
23440 - Heavy Equipment Operator	22.91
23460 - Instrument Mechanic	22.59
23465 - Laboratory/Shelter Mechanic	21.75

23470 - Laborer	14.98
23510 - Locksmith	21.90
23530 - Machinery Maintenance Mechanic	23.12
23550 - Machinist, Maintenance	22.91
23580 - Maintenance Trades Helper	18.27
23591 - Metrology Technician I	22.59
23592 - Metrology Technician II	23.80
23593 - Metrology Technician III	24.96
23640 - Millwright	28.19
23710 - Office Appliance Repairer	22.96
23760 - Painter, Maintenance	21.75
23790 - Pipefitter, Maintenance	24.63
23810 - Plumber, Maintenance	22.29
23820 - Pneudraulic Systems Mechanic	22.91
23850 - Rigger	22.91
23870 - Scale Mechanic	20.49
23890 - Sheet-Metal Worker, Maintenance	22.91
23910 - Small Engine Mechanic	20.49
23931 - Telecommunications Mechanic I	29.95
23932 - Telecommunications Mechanic II	31.55
23950 - Telephone Lineman	27.41
23960 - Welder, Combination, Maintenance	22.91
23965 - Well Driller	22.91
23970 - Woodcraft Worker	22.91
23980 - Woodworker	17.62
24000 - Personal Needs Occupations	
24570 - Child Care Attendant	12.79
24580 - Child Care Center Clerk	17.77
24610 - Chore Aide	10.57
24620 - Family Readiness And Support Services Coordinator	16.90
24630 - Homemaker	18.43
25000 - Plant And System Operations Occupations	
25010 - Boiler Tender	27.30
25040 - Sewage Plant Operator	20.84
25070 - Stationary Engineer	27.30
25190 - Ventilation Equipment Tender	19.49
25210 - Water Treatment Plant Operator	20.84
27000 - Protective Service Occupations	
27004 - Alarm Monitor	20.57
27007 - Baggage Inspector	12.71
27008 - Corrections Officer	22.80
27010 - Court Security Officer	24.72
27030 - Detection Dog Handler	20.57
27040 - Detention Officer	22.80
27070 - Firefighter	24.63
27101 - Guard I	12.71
27102 - Guard II	20.57
27131 - Police Officer I	26.52
27132 - Police Officer II	29.67
28000 - Recreation Occupations	

28041 - Carnival Equipment Operator	13.59
28042 - Carnival Equipment Repairer	14.63
28043 - Carnival Equipment Worker	9.24
28210 - Gate Attendant/Gate Tender	13.01
28310 - Lifeguard	11.59
28350 - Park Attendant (Aide)	14.56
28510 - Recreation Aide/Health Facility Attendant	10.62
28515 - Recreation Specialist	18.04
28630 - Sports Official	11.59
28690 - Swimming Pool Operator	18.21
29000 - Stevedoring/Longshoremen Occupational Services	
29010 - Blocker And Bracer	23.13
29020 - Hatch Tender	23.13
29030 - Line Handler	23.13
29041 - Stevedore I	21.31
29042 - Stevedore II	24.24
30000 - Technical Occupations	
30010 - Air Traffic Control Specialist, Center (HFO) (see 2)	39.92
30011 - Air Traffic Control Specialist, Station (HFO) (see 2)	26.84
30012 - Air Traffic Control Specialist, Terminal (HFO) (see 2)	29.56
30021 - Archeological Technician I	20.19
30022 - Archeological Technician II	22.60
30023 - Archeological Technician III	27.98
30030 - Cartographic Technician	27.98
30040 - Civil Engineering Technician	26.41
30061 - Drafter/CAD Operator I	20.19
30062 - Drafter/CAD Operator II	22.60
30063 - Drafter/CAD Operator III	25.19
30064 - Drafter/CAD Operator IV	31.00
30081 - Engineering Technician I	22.92
30082 - Engineering Technician II	25.72
30083 - Engineering Technician III	28.79
30084 - Engineering Technician IV	35.64
30085 - Engineering Technician V	43.61
30086 - Engineering Technician VI	52.76
30090 - Environmental Technician	27.41
30210 - Laboratory Technician	23.38
30240 - Mathematical Technician	28.94
30361 - Paralegal/Legal Assistant I	21.36
30362 - Paralegal/Legal Assistant II	26.47
30363 - Paralegal/Legal Assistant III	32.36
30364 - Paralegal/Legal Assistant IV	39.16
30390 - Photo-Optics Technician	27.98
30461 - Technical Writer I	21.93
30462 - Technical Writer II	26.84
30463 - Technical Writer III	32.47
30491 - Unexploded Ordnance (UXO) Technician I	24.74
30492 - Unexploded Ordnance (UXO) Technician II	29.93
30493 - Unexploded Ordnance (UXO) Technician III	35.88
30494 - Unexploded (UXO) Safety Escort	24.74
30495 - Unexploded (UXO) Sweep Personnel	24.74

30620 - Weather Observer, Combined Upper Air Or Surface Programs	(see 2)	25.19
30621 - Weather Observer, Senior	(see 2)	27.98
31000 - Transportation/Mobile Equipment Operation Occupations		
31020 - Bus Aide		14.32
31030 - Bus Driver		20.85
31043 - Driver Courier		13.98
31260 - Parking and Lot Attendant		10.07
31290 - Shuttle Bus Driver		15.66
31310 - Taxi Driver		13.98
31361 - Truckdriver, Light		15.66
31362 - Truckdriver, Medium		17.90
31363 - Truckdriver, Heavy		19.18
31364 - Truckdriver, Tractor-Trailer		19.18
99000 - Miscellaneous Occupations		
99030 - Cashier		10.03
99050 - Desk Clerk		11.58
99095 - Embalmer		23.05
99251 - Laboratory Animal Caretaker I		11.30
99252 - Laboratory Animal Caretaker II		12.35
99310 - Mortician		31.73
99410 - Pest Controller		17.69
99510 - Photofinishing Worker		13.20
99710 - Recycling Laborer		18.50
99711 - Recycling Specialist		22.71
99730 - Refuse Collector		16.40
99810 - Sales Clerk		12.09
99820 - School Crossing Guard		13.43
99830 - Survey Party Chief		21.94
99831 - Surveying Aide		13.63
99832 - Surveying Technician		20.85
99840 - Vending Machine Attendant		14.43
99841 - Vending Machine Repairer		18.73
99842 - Vending Machine Repairer Helper		14.43

ALL OCCUPATIONS LISTED ABOVE RECEIVE THE FOLLOWING BENEFITS:

HEALTH & WELFARE: \$3.50 per hour or \$140.00 per week or \$606.67 per month.

VACATION: 2 weeks paid vacation after 1 year of service with a contractor or successor; 3 weeks after 5 years, and 4 weeks after 15 years. Length of service includes the whole span of continuous service with the present contractor or successor, wherever employed, and with the predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 29 CFR 4.173)

HOLIDAYS: A minimum of ten paid holidays per year, New Year's Day, Martin Luther King Jr's Birthday, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day, and Christmas Day. (A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.) (See 29 CFR 4174)

THE OCCUPATIONS WHICH HAVE NUMBERED FOOTNOTES IN PARENTHESES RECEIVE THE FOLLOWING:

1) COMPUTER EMPLOYEES: Under the SCA at section 8(b), this wage determination does not apply to any employee who individually qualifies as a bona fide executive, administrative, or professional employee as defined in 29 C.F.R. Part 541. Because most Computer System Analysts and Computer Programmers who are compensated at a rate not less than \$27.63 (or on a salary or fee basis at a rate not less than \$455 per week) an hour would likely qualify as exempt computer professionals, (29 C.F.R. 541.400) wage rates may not be listed on this wage determination for all occupations within those job families. In addition, because this wage determination may not list a wage rate for some or all occupations within those job families if the survey data indicates that the prevailing wage rate for the occupation equals or exceeds \$27.63 per hour conformances may be necessary for certain nonexempt employees. For example, if an individual employee is nonexempt but nevertheless performs duties within the scope of one of the Computer Systems Analyst or Computer Programmer occupations for which this wage determination does not specify an SCA wage rate, then the wage rate for that employee must be conformed in accordance with the conformance procedures described in the conformance note included on this wage determination.

Additionally, because job titles vary widely and change quickly in the computer industry, job titles are not determinative of the application of the computer professional exemption. Therefore, the exemption applies only to computer employees who satisfy the compensation requirements and whose primary duty consists of:

- (1) The application of systems analysis techniques and procedures, including consulting with users, to determine hardware, software or system functional specifications;
- (2) The design, development, documentation, analysis, creation, testing or modification of computer systems or programs, including prototypes, based on and related to user or system design specifications;
- (3) The design, documentation, testing, creation or modification of computer programs related to machine operating systems; or
- (4) A combination of the aforementioned duties, the performance of which requires the same level of skills. (29 C.F.R. 541.400).

2) AIR TRAFFIC CONTROLLERS AND WEATHER OBSERVERS - NIGHT PAY & SUNDAY PAY: If you work at night as part of a regular tour of duty, you will earn a night differential and receive an additional 10% of basic pay for any hours worked between 6pm and 6am. If you are a full-time employed (40 hours a week) and

Sunday is part of your regularly scheduled workweek, you are paid at your rate of basic pay plus a Sunday premium of 25% of your basic rate for each hour of Sunday work which is not overtime (i.e. occasional work on Sunday outside the normal tour of duty is considered overtime work).

HAZARDOUS PAY DIFFERENTIAL: An 8 percent differential is applicable to employees employed in a position that represents a high degree of hazard when working with or in close proximity to ordnance, explosives, and incendiary materials. This includes work such as screening, blending, dying, mixing, and pressing of sensitive ordnance, explosives, and pyrotechnic compositions such as lead azide, black powder and photoflash powder. All dry-house activities involving propellants or explosives. Demilitarization, modification, renovation, demolition, and maintenance operations on sensitive ordnance, explosives and incendiary materials. All operations involving regrading and cleaning of artillery ranges.

A 4 percent differential is applicable to employees employed in a position that represents a low degree of hazard when working with, or in close proximity to ordnance, (or employees possibly adjacent to) explosives and incendiary materials which involves potential injury such as laceration of hands, face, or arms of the employee engaged in the operation, irritation of the skin, minor burns and the like; minimal damage to immediate or adjacent work area or equipment being used. All operations involving, unloading, storage, and hauling of ordnance, explosive, and incendiary ordnance material other than small arms ammunition. These differentials are only applicable to work that has been specifically designated by the agency for ordnance, explosives, and incendiary material differential pay.

**** UNIFORM ALLOWANCE ****

If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract, by the employer, by the state or local law, etc.), the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance:

The contractor or subcontractor is required to furnish all employees with an adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition, where uniform cleaning and maintenance is made the responsibility of the employee, all contractors and subcontractors subject to this wage determination shall (in the absence of a bona fide collective bargaining agreement providing for a different amount, or the furnishing of contrary affirmative proof as to the actual cost), reimburse all employees for such cleaning and maintenance at a rate of \$3.35 per week (or \$.67 cents per day). However, in those instances where the uniforms furnished are made of "wash and wear" materials, may be routinely washed and dried with other personal garments, and do not require any special

treatment such as dry cleaning, daily washing, or commercial laundering in order to meet the cleanliness or appearance standards set by the terms of the Government contract, by the contractor, by law, or by the nature of the work, there is no requirement that employees be reimbursed for uniform maintenance costs.

The duties of employees under job titles listed are those described in the "Service Contract Act Directory of Occupations", Fifth Edition, April 2006, unless otherwise indicated. Copies of the Directory are available on the Internet. A links to the Directory may be found on the WHD home page at <http://www.dol.gov/esa/whd/> or through the Wage Determinations On-Line (WDOL) Web site at <http://wdol.gov/>.

REQUEST FOR AUTHORIZATION OF ADDITIONAL CLASSIFICATION AND WAGE RATE
{Standard Form 1444 (SF 1444)}

Conformance Process:

The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e., the work to be performed is not performed by any classification listed in the wage determination), be classified by the contractor so as to provide a reasonable relationship (i.e., appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination. Such conformed classes of employees shall be paid the monetary wages and furnished the fringe benefits as are determined. Such conforming process shall be initiated by the contractor prior to the performance of contract work by such unlisted class(es) of employees. The conformed classification, wage rate, and/or fringe benefits shall be retroactive to the commencement date of the contract. {See Section 4.6 (C) (vi)} When multiple wage determinations are included in a contract, a separate SF 1444 should be prepared for each wage determination to which a class(es) is to be conformed.

The process for preparing a conformance request is as follows:

- 1) When preparing the bid, the contractor identifies the need for a conformed occupation(s) and computes a proposed rate(s).
- 2) After contract award, the contractor prepares a written report listing in order proposed classification title(s), a Federal grade equivalency (FGE) for each proposed classification(s), job description(s), and rationale for proposed wage rate(s), including information regarding the agreement or disagreement of the authorized representative of the employees involved, or where there is no authorized representative, the employees themselves. This report should be submitted to the contracting officer no later than 30 days after such unlisted class(es) of employees performs any contract work.
- 3) The contracting officer reviews the proposed action and promptly submits a report of the action, together with the agency's recommendations and

pertinent information including the position of the contractor and the employees, to the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, for review. (See section 4.6(b)(2) of Regulations 29 CFR Part 4).

4) Within 30 days of receipt, the Wage and Hour Division approves, modifies, or disapproves the action via transmittal to the agency contracting officer, or notifies the contracting officer that additional time will be required to process the request.

5) The contracting officer transmits the Wage and Hour decision to the contractor.

6) The contractor informs the affected employees.

Information required by the Regulations must be submitted on SF 1444 or bond paper.

When preparing a conformance request, the "Service Contract Act Directory of Occupations" (the Directory) should be used to compare job definitions to insure that duties requested are not performed by a classification already listed in the wage determination. Remember, it is not the job title, but the required tasks that determine whether a class is included in an established wage determination. Conformances may not be used to artificially split, combine, or subdivide classifications listed in the wage determination.

PERSONAL IDENTITY VERIFICATION (PIV) CARD ISSUANCE PROCEDURES

PIV Card Issuance Procedures in accordance with FAR clause 52.204-9, Personal Identity Verification of Contractor Personnel. FIPS 201 Appendix A graphically displays the following procedure for the issuance of a PIV credential.

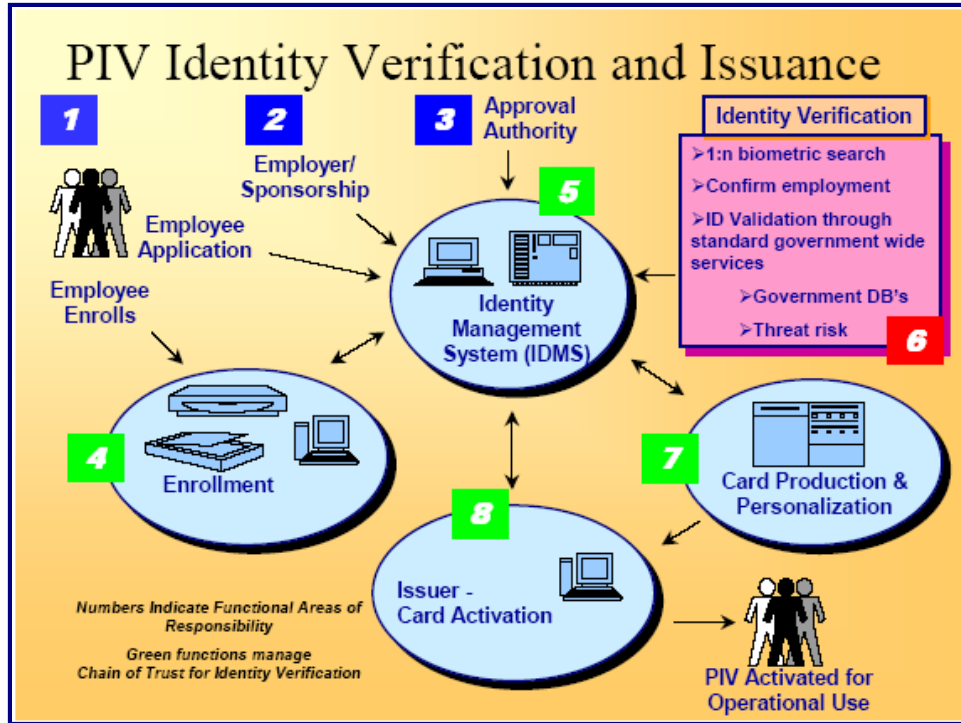


Figure A-1, FIPS 201, Appendix A

The following steps describe the procedures for the NASA Personal Identity Verification Card Issuance (PCI) of a PIV credential:

Step 1:

The Contractor's Corporate Security Officer (CSO), Program Manager (PM), or Facility Security Officer (FSO) submits a formal letter that provides a list of contract employees (applicant) names requesting access to the NASA Contracting Officer's Technical Representative (COTR). In the case of a foreign national applicant, approval through the NASA Foreign National Management System (NFMMS) must be obtained for the visit or assignment before any processing for a PIV credential can take place. Further, if the foreign national is not under a contract where a COTR has been officially designated, the foreign national will provide the information directly to their visit/assignment host, and the host sponsor will fulfill the duties of the COTR mentioned herein. In each case, the letter shall provide notification of the contract or foreign national employee's (hereafter the "applicant") full name (first, middle and last), social security number (SSN) or NASA Foreign National Management System Visitor Number if the foreign national does not

have a SSN, and date of birth. If the contract employee has a current satisfactorily completed National Agency Check with Inquiries (NACI) or an equivalent or higher degree of background investigation, the letter shall indicate the type of investigation, the agency completing the investigation, and date the investigation was completed. Also, the letter must specify the risk/sensitivity level associated with the position in which each applicant will be working (NPR 1600.1, §4.5 is germane) Further, the letter shall also acknowledge that contract employees may be denied access to NASA information or information systems based on an unsatisfactory background investigation/adjudication. .

After reviewing the letter for completeness and concurring with the risk/sensitivity levels, the COTR/host must forward the letter to the Center Chief of Security (CCS). The CCS shall review the OPM databases (e.g., DCII, PIP, et al.), and take appropriate steps to validate the applicant's investigation status. Requirements for a NACI or other investigation shall be initiated only if necessary.

Applicants who do not currently possess the required level of background investigation shall be directed to the e-QIP web site to complete the necessary background investigation forms online. The CCS shall provide to the COTR/host information and instructions on how to access the e-QIP for each contract or foreign national employee requiring access

Step 2:

Upon acceptance of the letter/background information, the applicant will be advised that in order to complete the investigative process, he or she must appear in-person before the authorized PIV registrar and submit two forms of identity source documents in original form. The identity source documents must come from the list of acceptable documents included in Form I-9, Employment Eligibility Verification, one which must be a Federal¹ or State issued picture identification. Fingerprints will be taken at this time. The applicant must appear **no later than** the entry on duty date.

When the applicant appears, the registrar will electronically scan the submitted documents; any document that appears invalid will be rejected by the registrar. The registrar will capture electronically both a facial image and fingerprints of the applicant. The information submitted by the applicant will be used to create or update the applicant identity record in the Identity Management System (IDMS).

Step 3:

Upon the applicant's completion of the investigative document, the CCS reviews the information, and resolves discrepancies with the applicant as necessary. When the applicant has appeared in person and completed fingerprints, the package is electronically submitted to initiate the NACI. The CCS includes a request for feedback on the NAC portion of the NACI at the time the request is submitted.

¹ A non-PIV government identification badge, including the NASA Photo Identification Badge, MAY NOT BE USED for the original issuance of a PIV vetted credential

Step 4:

Prior to authorizing physical access of a contractor employee to a federally-controlled facility or access to a Federal information system, the CCS will a National Crime Information Center (NCIC) with an Interstate Identification Index check is/has been performed. In the case of a foreign national, a national check of the Bureau of Immigration and Customs Enforcement (BICE) database will be performed for each applicant. If this process yields negative information, the CCS will immediately notify the COTR/host of the determination regarding access made by the CCS.

Step 5:

Upon receipt of the completed NAC, the CCS will update IDMS from the NAC portion of the NACI and indicate the result of the suitability determination. If an unsatisfactory suitability determination is rendered, the COTR will advise the contractor that the employee is being denied physical access to all federally-controlled facilities and Federal information systems.

Based on a favorable NAC and NCIC/III or BICE check, the CCS will authorize the issuance of a PIV federal credential in the Physical Access Control System (PACS) database. The CCS, based on information provided by the COTR/host, will determine what physical access the applicant should be granted once the PIV issues the credential.

Step 6:

Using the information provided by the applicant during his or her in-person appearance, the PIV card production facility creates and instantiates the approved PIV card for the applicant with an activation date commensurate with the applicant's start date.

Step 7:

The applicant proceeds to the credential issuance facility to begin processing for receipt of his/her federal credential.

The applicant provides to the credential issuing operator proof of identity with documentation that meets the requirements of FIPS 201 (DHS Employment Eligibility Verification (Form I-9) documents. These documents **must** be the same documents submitted for registration.

The credential issuing operator will verify that the facial image, and optionally reference finger print, matches the enrollment data used to produce the card. Upon verification of identity, the operator will locate the employee's record in the PACS database, and modify the record to indicate the PIV card has been issued. The applicant will select a PIN for use with his or her new PIV card. Although root data is inaccessible to the operator, certain fields (hair color, eye color, et al.) may be modified to more accurately record the employee's information.

The applicant proceeds to a kiosk or other workstation to complete activation of the PIV card using the initial PIN entered at card issuance.

**ALTERNATIVE FOR APPLICANTS WHO DO NOT HAVE A COMPLETED AND
ADJUDICATED NAC AT THE TIME OF ENTRANCE ON DUTY**

Steps 1 through 4 shall be accomplished for all applicants in accordance with the process described above. If the applicant is unable to appear in person until the time of entry on duty, or does not, for any other reason, have a completed and adjudicated NAC portion of the NACI at the time of entrance on duty, the following interim procedures shall apply.

1. If the documents required to submit the NACI have not been completed prior to EOD, the applicant will be instructed to complete all remaining requirements for submission of the investigation request. This includes presentation of I-9 documents and completion of fingerprints, if not already accomplished. If the applicant fails to complete these activities as prescribed in NPR 1600.1 (Chapters 3 & 4), it may be considered as failure to meet the conditions required for physical access to a federally-controlled facility or access to a Federal information system, and result in denial of such access.
2. Based on favorable results of the NCIC, the applicant shall be issued a temporary NASA identification card for a period not-to-exceed six months. If at the end of the six month period the NAC results have not been returned, the agency will at that time make a determination if an additional extension will be granted for the temporary identification card.
3. Upon return of the completed NAC, the process will continue from Step 5.

**IT Security Applicable Documents List
APRIL 2011**

NASA Policy Directives (NPD) and NASA Procedural Requirements (NPR)		
Document	Subject	Effective Date
NPR 1382.1	NASA Privacy Procedural Requirements	August 10, 2007
NPD 1382.17H	NASA Privacy Policy	June 24, 2009
NPD 1440.6H	NASA Records Management	March 24, 2008
NPR 1441.1D	NASA Records Retention Schedules (w/Change 5, 6/29/09)	February 24, 2003
NPD 2540.1G	Personal Use of Government Office Equipment Including Information Technology	June 08, 2010
NPD 2800.1B	Managing Information Technology	March 21, 2008
NPR 2800.1B	Managing Information Technology	March 20, 2009
NPD 2810.1D	NASA Information Security Policy	May 9, 2009
NPR 2810.1A	Security of Information Technology	May 16, 2006
NPD 2830.1	NASA Enterprise Architecture	December 16, 2005
NPR 2830.1	NASA Enterprise Architecture Procedures	February 9, 2006
NPR 7120.7	NASA Information Technology and Institutional Infrastructure Program and Project Management Requirements	November 3, 2008
NPR 2841.1	Identity, Credential, and Access Management	January 6, 2011

NASA Interim Technical Requirements (NITR)		
Document	Subject	Effective Date
NITR 2800_24	NASA IT Device Vulnerability Management	January 28, 2010
NITR 2800_2	Email Services and Email Forwarding	September 18, 2009
NITR 2810_14A	Managing Elevated User Privileges on NASA IT Devices	August 17, 2009
NITR 2800_1	NASA Information Technology Waiver Requirements and Procedures	August 13, 2009
NITR 2810_21	System and Services Acquisition Policy and Procedures	April 28, 2009
NITR 2810_20	System and Communications Protection Policy and Procedures	March 11, 2009
NITR 2810_23	NASA Authorizing Official (AO) Procedural Requirement	March 01, 2009
NITR 2830-1B	Networks in NASA Internet Protocol (IP) Space or NASA Physical Space	February 12, 2009

NASA Interim Technical Requirements (NITR)		
Document	Subject	Effective Date
NITR 2810_22	Media Protection Policy and Procedures	January 7, 2009
NITR 2810_17	System Maintenance Policy and Procedures	November 12, 2008
NITR 2810_19	Audit and Accountability Policy and Procedures	November 12, 2008
NITR 2810_15	Contingency Planning	June 9, 2008
NITR 2810_12	Continuous Monitoring	May 18, 2008
NITR 1382_2	NASA Rules and Consequences to Safeguarding PII, with Change 1, dated 02/04/2008	January 28, 2008
NITR 1382_1	Personally Identifiable Information (PII) Breach Response Policy	December 21, 2007

SOPs (ITS-SOP) and Handbooks (ITS-HBK)		
Document	Subject	Effective Date
ITS-HBK 0205	Security Assessment and Authorization: External Information Systems	November 8, 2010
ITS-HBK 0206	Security Assessment and Authorization: Extending and Information Systems Authorization to Operate Process and Templates	November 10, 2010
ITS-HB 0001	Format and Procedures for an IT Security Handbook	January 11, 2010
ITS-HBK-1502	Access Control: Elevated Privileges (EP)	November 8, 2010
ITS-HBK 0207	Security Assessment and Authorization: Information System Security Plan Numbering Schema	November 10, 2010
ITS-HBK 0204	Security Assessment and Authorization: Continuous Monitoring—Annual Security Control Assessments	November 10, 2010
ITS-HBK 0302	Planning: Information System Security Plan Template, Requirements, Guidance and Examples	February 9, 2011
ITS-HBK 0402	Risk Assessment: Procedures for Information System Security Penetration Testing and Rules of Engagement	February 11, 2011
ITS-HBK 0202	Security Assessment and Authorization: FIPS 199 Moderate & High Systems	November 10, 2010
ITS-HBK 0203	Security Assessment and Authorization: FIPS 199 Low Systems	November 10, 2010

SOPs (ITS-SOP) and Handbooks (ITS-HBK)		
Document	Subject	Effective Date
ITS-HB 0035	Digital Media Sanitization	September 15, 2008
ITS-HBK 0802	Contingency Planning: Guidance and Templates for Plan Development, Maintenance and Test	February 11, 2011
ITS-HB 0044	Procedure for Responding to a Breach of PII	December 21, 2007
ITS-HB 0046A	Procedure for Review and Reducing PII	February 27, 2009
Standards		
Document	Subject	Effective Date
EA-STD 0001.0	Standard for Integrating Applications into the NASA Access Management, Authentication, and Authorization Infrastructure	August 1, 2008
EA-SOP 0003.0	Procedures for Submitting a NASA Agency Forest (NAF) Deviation Request and Transition Plan	August 1, 2008
EA-SOP 0004.0	Procedures for Submitting an Application Integration Deviation Request and Transition Plan	August 1, 2008
NASA-STD-2804L	Minimum Interoperability Software Suite	June 24, 2008
NASA-STD-2805L	Minimum Hardware Configurations	June 24, 2008

Within 30 days after contract award, the Contractor shall develop and deliver an IT Security Management Plan to the Contracting Officer for approval.