

- n. Average number of personnel on the contract/order per year and voluntary turnover history for exempt and nonexempt employees (or other major categorization used by the Quoter).
  - o. Describe how the respective contract/order is similar in size and complexity to the Logistics Services requirement at MSFC. It is not sufficient to state that it is comparable in magnitude and scope. Rationale must be provided to demonstrate that it is comparable.
  - p. Innovations used to maintain equipment and services, due to decreasing budgets.
  - q. Experience in FFP and IDIQ contracts/orders.
  - r. Experience with meeting internal Quality Assurance functions.
  - s. Major technical problems and how they were overcome. List any major deviations or waivers to technical requirements that were granted by the customer. Also, state how the latest technology was provided throughout the life of the contract/order.
  - t. Performance metrics (quality, timeliness, documentation, etc.) for SOW similar in size and complexity.
  - u. History of cost control and accuracy of estimates.
  - v. Types of quality improvements (i.e., awards or certifications) that indicate the Quoter possesses a high-quality process for developing and providing the service required. Examples of quality awards or certifications include the Malcolm Baldrige Quality Award, other government quality awards, and private sector awards or certifications. Identify what segment of the company (one division or the entire company) that received the award or certification. Describe when the award or certification was received. If the award or certification is over three years old, present evidence that the qualifications still apply.
2. Provide the Quoter's Lost Time Incident Rate (LTIR) for the last three calendar years for all contracts/orders comparable to the requirements of this Performance Work Statement. Include the Standard Industrial Classification Code (SIC) or North American Industrial Classification System (NAICS) and the LTIR for the work being performed on all comparable contracts/orders that are referenced in the Quoter's quotation. Also, include this same information for any proposed subcontractors with subcontracts over \$500,000 total value or, if applicable, subcontracts for No Cost To This Order Services such as

Food Services and the Retail Store operations. Complete the LTIR chart, Attachment 4-11, including contract/order name or number, contract/order's SIC or NAICS Code, LTIR, number of lost workdays (injury or illness), number of employees, and number of hours worked.

3. The Quoter shall include a summary of all customers to whom it has provided Past Performance Interview/Questionnaire Forms (see 4-10). The forms shall be provided to all of the Quoter's most relevant contracts that are currently being performed or have been performed within the last three (3) years. The Quoter is responsible for forwarding the Past Performance Interview/Questionnaire, along with the attached synopsis of the Logistics Services PWS (Attachment 4-8), to customer references, along with the transmittal letter similar to the one provided as Attachment 4-9. The Quoter shall request that the Customer references complete the Past Performance Interview Questionnaire Form (Attachment 4-10) and return it to PS31-E/Daniel Fuller no later than November 18, 2002, 12:00 noon, local time. The Quoter is responsible for ensuring that questionnaires are completed and provided to MSFC to meet the stated deadline. In addition to Contractor-provided references, the NASA past performance database and references known to the Evaluation Team will be checked as deemed necessary. Instructions for completing the Past Performance/Interview Questionnaire Forms are contained on the form.

#### Volume I – Mission Suitability Factor

The Quoter shall submit Key Personnel Description and Resume Forms in the format provided in Attachment 4-1 for those positions, which the Quoter determines are key.

#### D. Submittal II

##### Volume I - Mission Suitability Factor

The Mission Suitability Factor indicates the excellence of the Quoter's proposed approach and the ability to accomplish the order requirements. In addition, the Mission Suitability Factor indicates the Quoter's understanding of the requirements of the PWS, the Quoter's plan for satisfying those requirements, and the likelihood that the approach will result in effective and efficient performance. Quotations will be evaluated and scored numerically based upon the subfactors set forth herein. The total weighting for the Mission Suitability Factor shall be 1,000 points.

A key measure in assessing the Quoter's understanding of the requirement is the adequacy of the Quoter's risk analysis and risk mitigation. The Quoter shall assess its responses under each Volume I Mission Suitability subfactor and

where appropriate, provide an assessment of risks inherent to its proposed approach, and the plan to mitigate those risks. The Quoter shall describe any innovative approaches that will be employed during order performance, and highlight these innovations in its quotation. The Quoter shall provide a summary listing of where innovative approaches and risk assessments may be found in their proposals.

All pages in Volume I shall be numbered and identified with the Quoter's name, RFQ number, and date. A table of contents shall be provided with figures and tables listed separately.

Both technical and management information shall be included in the Mission Suitability quotation. No cost/price data shall be included except as specifically required under the Mission Suitability. The quotation should not assume that the evaluation team is aware of the Quoter's abilities, capabilities, plans, facilities, organization, or any other pertinent fact that is important to accomplishment of work. Further, the evaluation will be based primarily on the information presented in the written quotation. Each listed evaluation subfactor shall be specifically addressed.

The content of the Quoter's Mission Suitability Quotation will provide the basis for evaluation of the Quoter's response to the technical requirements of the RFQ. The Quoter shall identify those areas of the PWS the Quoter considers critical or of high risk. Discuss the Quoter's approach to minimizing risks and ensuring successful performance of the PWS. As a minimum, the Mission Suitability Quotation shall address the following subfactors, which are listed in Section 5, Evaluation/Evaluation Factors.

### **SUBFACTOR 1: MANAGEMENT APPROACH**

The Quoter shall submit a management approach that describes, from an administrative standpoint, how it intends to bring the services identified in the performance-based PWS to full operational status, and the manner and means by which these services, once established, will be maintained for elements MA1 through MA7 below.

#### **MA1 - Management Approach to Providing All Services**

The Quoter shall provide a description of the Quoter's planned organizational structure to include the organization chart relationship to the corporate office, the proposed order site organization chart, and the subcontractor relationship within the site organization chart. Complete rationale for the organization structure shall be provided to demonstrate a logical, organized approach to the (1) controls that include adherence to schedules and operational performance, (2) reports of order activities, and (3) interfaces for all support activities identified in the PWS that

support the MSFC and the Logistics Services core values. The Quoter shall describe its core values and any correlation between those values and the MSFC and Logistics Services Core Values (see Attachments 6-5 and 6-6). The Quoter's Core Values, their correlation to the MSFC and LSD Core Values, and demonstration of the ability to implement trade-offs between the Quoter's individual Core Values shall be addressed.

The Quoter shall discuss the proposed management approach to plan, direct, control, and manage each of the services identified in the performance-based PWS and describe the managers' functions, authority, reporting structure, and access to corporate resources. The Quoter shall completely describe its lines of communication and interface relationships with the COTR, CO, customers, and any subcontractors. The Quoter shall describe the degree of local autonomy including the authority of the on-site program manager. Descriptions shall include, but not be limited to, identification of the organizational and geographical placement authority to negotiate order modifications; hire, dismiss, promote, discipline and demote personnel; select, administer and terminate subcontracts.

### **MA2 – Planned Subcontracts and Teaming**

The Quoter shall provide the details of any planned subcontracts, teaming arrangements or other associated contractual arrangements. If teaming or subcontracting arrangements are proposed, provide the name of the company(ies) selected, the basis of the selection(s), and the type of proposed subcontract(s). In addition, for each major subcontractor (subcontracts over \$500,000 or subcontracts for No Cost To This Order Services such as Food Services and the Retail Store operations), describe how management and control policies will be implemented, and how work will be controlled, reported, and reviewed.

Quoters shall discuss proposed small business, woman-owned small business, HUBzone small business, veteran-owned small business, and historically black colleges and universities and other minority institutions' participation in comparison with the goals stated in Provision 4-3, and the methods for achieving these goals. (Small disadvantaged business is addressed as a separate subfactor). The Quoter shall clearly identify the proposed types and amounts of work to be performed by small business, woman-owned small business concerns, HUBzone small business, veteran-owned small business, and historically black colleges and universities and other minority institutions, emphasizing utilization of any "high technology" efforts as defined in NFS 1819.001.

### **MA3 – Phase-In/Phase-Out Approach**

The Quoter shall provide a phase-in/phase-out approach that addresses, as a minimum, the Quoter's approach to ensure continuity and a smooth transition with the incumbent contractor during the phase-in period, severance pay policy, and plan to ensure a successful transition to a successor contractor upon completion of the order.

**MA4 - Key Position Descriptions, Rationale, and Personnel Qualifications**

The Quoter shall clearly identify the key positions, provide rationale for selection of these positions as key positions, and provide a position description for each key position using the Key Personnel Position Description and Resume (see Attachment 4-1). Resumes shall include the education, summary of experience in similar work (Government and commercial contract experience), other applicable experience, and the name and telephone number of that individual's immediate supervisor for each prior position held. The Quoter shall demonstrate the degree of commitment of the individuals identified as key (as determined, for example, by letters of intent). State the percentage of time each key person will devote to this effort. The Quoter should also state if any of the key personnel identified in this quotation are being proposed as key personnel on any of the Quoter's other concurrent proposals/quotations. These descriptions will be used to determine the Quoter's ability to provide highly skilled key personnel to efficiently and effectively manage the work associated with all elements of the PWS. While the references provided by Quoters will be the primary source of information used for evaluation purposes, the Government may use other references (discovered during the reference-check process, for example), as well as any other information obtained, in evaluating the qualifications and capabilities of the key personnel.

Key Personnel Position Descriptions and Resumes shall be limited to six (6) pages per person and are included in Submittal I. Any additional narrative to address this element shall be included in the Mission Suitability Quotation in Submittal II.

**MA5 – Staffing**

The Quoter shall provide an approach to staffing and recruiting that demonstrates an understanding of the skill mix, the levels of expertise and qualifications for positions other than key, and the distribution and effective use of the work force, including staffing levels, necessary to support this requirement. This staffing approach shall support the entire site organization as described in MA1 and provide direct correlation to

the PWS. The staffing and recruiting approach shall include, as a minimum:

1. Proposed skill categories and the number of personnel in each category. Discuss any difficulties you anticipate in fulfilling the staffing requirements of this order.
2. Approach to cross-training, replacement and backup for non-key personnel. Include plans for on-going training, the plans for training and integrating newly hired personnel, and the approach for providing backup for all personnel (excluding key personnel) for absences due to vacation, illness, etc. Describe procedures to replace personnel who leave the Quoter's employment.
3. Approach for attracting and retaining high quality personnel. Provide an estimate of the number of incumbent employees you expect to hire and the rationale for your estimate. Discuss your corporate policies for continuing/replacing the benefits of the employees that you expect to obtain from the incumbent Contractor (e.g. seniority, accrued sick and annual leave, compensatory time, health plans, 401K plans, etc.).
4. A completed Job Description/Qualification Form (Attachment 4-2) for all job titles (positions) other than those submitted as key personnel.
5. Approach to handling fluctuating workloads.

The Quoter shall also include a Total Compensation Plan.

1. The Quoter shall address all proposed labor categories, including those personnel/classifications subject to the Service Contract Act (involves both "Area" Wage Determinations and "4(c) Wage Determinations [based on union collective bargaining agreements]), and those exempt from both of the above. The Total Compensation Plan shall include the salaries/wages, fringe benefits (health and welfare, holidays, vacation, etc.), and all other types of leave programs proposed for each of these categories of labor. The plan shall also include a discussion of the consistency of the plan among the categories of labor being proposed. Differences between benefits offered professional and non-professional employees shall be highlighted.
2. The Quoter shall provide written support to demonstrate that its proposed Total Compensation Plan is reasonable and that it is compliant with the Federal labor standards (i.e., Service Contract

Act, Contract Work Hours and Safety Standards Act, Fair Labor Standards Act, etc.).

3. The Quoter shall include the rationale for any Service Contract Act conformed classification(s) and demonstrate why they do not fall within the scope of any classification already listed in the applicable wage determination(s)
4. The Quoter shall require all proposed service subcontractors to provide the same information as well. This information shall be included in the Quoter's submittal.
5. It should be noted that only information relative to the compensation plan pertaining to the discussion of logic or rationale should be submitted as part of Submittal II, Volume I, Mission Suitability Quotation. Data such as formulas, factors, rates, etc., shall be submitted as part of Volume II, Price Quotation.

#### **MA6 – Financial Management Reporting**

The Quoter shall provide its approach to cost reporting and its system to ensure integrity. The Quoter shall identify any problems within the last three years with submitted contract cost reports, e.g. NASA Forms 533M or 553Q or similar reports, and shall describe the corrective actions taken.

#### **MA7 – Risk Assessment**

The Quoter shall submit a risk assessment for the complete Management Approach subfactor. The analysis shall identify and discuss risk factors and include a recommendation to mitigate the impact of the identified risks.

### **SUBFACTOR 2 – TECHNICAL APPROACH**

#### **TA1 – Narrative Demonstration of Understanding Performance-Based PWS Requirements**

The Quoter shall provide a PWS compliance matrix with supporting detailed narrative that demonstrates a detailed understanding of the PWS. Within this narrative, the Quoter should discuss its approach to meeting each of the requirements of the PWS and how the Quoter's staffing plan and Price Quotation is consistent with this approach.

The Quoter shall specifically discuss each of the functions identified in the PWS. This discussion shall include the Quoter's approach to ensuring quality customer service and quality improvements.

### **TA2 – Innovations with Supporting Rationale**

The Quoter shall identify and provide supporting rationale for any proposed innovations. MSFC desires the most cost effective performance in all operational areas. Innovation, cost effectiveness, and low cost planning shall be considered and evaluated in order to emphasize productivity improvement. Due to anticipated budget constraints, Quoters should consider proposing innovative methods to control and reduce costs. For example, techniques could include the use of performance-based fixed price subcontracts in appropriate areas that utilize objective measurable performance indicators. Quoters are encouraged to translate this emphasis into every work element proposed in order to maximize performance in the proposed order. The Quoter shall include a summary of any innovations or "extras" with the specific area of the quotation identified. This summary of innovations or "extras" should be included to expedite the evaluation process. Any innovations or "extras" identified in the Quoter's quotation and evaluated by the Government shall be incorporated into and become a binding part of the order.

### **TA3 – Retail Store**

The Quoter shall describe its proposed implementation of the retail store. The Quoter shall describe store layout, operations and partnerships. The Quoter shall discuss strategies to publicize the store, address fluctuations and additions and deletions of commodities, customer service, and web-enabled ordering system.

### **TA4 – Work Control System Operations**

The Quoter shall describe how it will set up a Work Control System to process, status, and provide notification for staffing requirement projections, training requirements, and how work will be integrated into the daily work flow process. The Quoter shall describe how it will effectively operate and maintain the Government furnished work control system.

### **TA5 – Quality Control Approach**

The Quoter's quotation shall clearly demonstrate an understanding of the principles involved with a performance-based PWS as they relate to the implementation of all tasks described in the PWS, the Performance

Requirements Summary (PRS), and the Quality Control/Assurance Plan (QCP), and the utilization of proposed organizational structure and management process in assuring quality control. The Quoter shall provide a Preliminary Quality Control/Assurance Plan (DRD 988QE-001) and show how the quality requirements flow down to subcontractors, partners, and vendors.

The Quoter's approach shall describe in detail the approach to ensure quality control throughout each of the order elements. Discuss the quality control policies, standards, procedures, and techniques proposed to use as a self-evaluation process to assure the Government that quality levels are acceptable. The Quoter shall provide evidence, as a minimum, of ANSI/ISO/ASQ Q9001: 2000 compliance, such as self-assessment audits reports, and registration reports. Discussion should clearly indicate which aspects of the proposed QCP may be applicable to all order elements and which aspects of the QCP may be applicable to only selected order elements. For those aspects of the QCP that are applicable only to a selected order element, fully explain the rationale for this approach.

The Quoter shall discuss proposed procedures, techniques, and mechanisms for implementing the QCP and making employees aware of all its aspects. The Quoter shall discuss techniques for enhancing quality consistency and continuous quality improvement, including techniques for sensitizing employees relative to maintaining and enhancing quality workmanship.

The Quoter shall provide a description of the proposed quality system. The system shall cover all order services, specify work to be inspected on either a scheduled or unscheduled basis, and describe how inspections are to be conducted. The Quoter shall fully describe proposed methods of providing proactive, self-initiated corrective actions and revisions, updates, audits, and timely delivery of order requirements. The Quoter shall discuss the techniques, procedures, and mechanisms the Quoter will use to ensure timeliness, completeness, and intended function of all work. The Quoter shall discuss proposed provisions for recording the results of inspections and for recording corrective action taken.

The Quoter shall discuss the qualifications of the individual employees, supervisors, and management responsible for performing the quality inspections, and the extent of their authority.

The Quoter shall discuss the sanctions to be employed on employees for non-adherence to standards or quality output.

The Quoter shall discuss obtaining and utilizing feedback from MSFC customers' sources in continuously evaluating the quality of products and services, and the mechanisms for incorporating the feedback into the work environment.

The Quoter's quality approach shall be used as the basis for developing the QCP.

**TA6 - Reliability Centered Maintenance (RCM) Implementation**

The Quoter shall describe the proposed implementation of RCM. The Quoter shall relate the RCM to attaining the required equipment availability at the lowest life cycle cost while meeting security, safety, health, and environmental requirements. The Quoter shall discuss strategies that will be applied to maintenance task development to take advantage of the individual strengths of reactive, preventive, condition based, and proactive maintenance practices. The Quoter shall discuss maintenance task modification based on Failure Mode and Effects Analysis (FMEA) and age exploration.

**TA7 - Risk Assessment**

The Quoter shall submit a risk assessment for this subfactor that identifies risk areas. The assessment shall identify and discuss risk factors and include a recommendation to mitigate the impact of the identified risks.

**SUBFACTOR 3 - SAFETY, HEALTH, AND ENVIRONMENTAL**

**SHE1 - Safety and Health**

The Quoter shall describe its policies of workplace safety and health and the training initiatives to promote safety and health in and around MSFC (including near-site locations). The Quoter shall note any processes for ensuring that on-site personnel follow the MSFC policies and procedures for workplace safety and health. The Quoter shall submit for evaluation a draft version of the Data Requirement Document 988SA-001, On-site Safety and Health Plan, as set forth in Attachment 2. The Safety and Health Plan shall include provisions for compliance with environmental laws and regulations. The Contractor shall identify its Lost Time Incident Rate (LTIR) data and what corrective actions are being taken to lower this rate.

**SHE2 - Risk Assessment**

The Quoter shall submit a risk assessment for this subfactor that identifies risk areas. The assessment shall identify and discuss risk factors and include a recommendation to mitigate the impact of the identified risks.

**SUBFACTOR 4 – SMALL DISADVANTAGED BUSINESS  
(SDB) PARTICIPATION**

*NOTICE: These instructions apply to both large and small business Quoters. They apply to SDB Quoters only if the SDB Quoter has waived the price evaluation adjustment factor by completing paragraph c of Section 1 Clause, FAR Clause 52.219-23, "Notice of Price Evaluation Adjustment for Small Disadvantaged Business Concerns." The waiver, if elected, makes the SDB Quoter ineligible for the price evaluation factor adjustment but eligible for the evaluation credit (points) associated with the SDB participation factor described in Evaluation/Evaluation Factors section of the solicitation.*

This SDB subfactor applies to the Quoter's approach to small disadvantaged business (SDB) participation only. A separate mission suitability subfactor for small business (other than small disadvantaged business) participation is described under subfactor 2 – Management Approach, MA-2.

This solicitation is for a requirement within one of the major standard industrial classifications determined by the Department of Commerce in accordance with FAR 19.201(b) and meets the applicability conditions of FAR 19.12 "Small Disadvantaged Business Participation Program".

**SDB1 - Participation Goals**

The Quoter shall indicate the total target for SDB participation, expressed as a percentage of order value, for both the (a) the Contractor, including joint venture partners and team members and (b) all subcontractors. (Reference Provision 4-3).

**SDB2 - Past Participation**

The Quoter shall provide a record of past participation of SDB concerns in subcontracts and the type of work subcontracted such as property management, food services, maintenance and repair services, etc., over the past three full years.

**SDB3 - Past Contracting Incentives**

The Quoter shall identify by contract number and contracting agency, SDB contracting incentives earned under any Government contracts in the last three years. If incentives were available, but not earned, so state.

**SDB4 - Purchasing Procedures**

The Quoter shall provide a brief description of established or planned procedures for SDB outreach, assistance, counseling, market research, and SDB identification, along with relevant purchasing procedures. Large businesses may reference applicable portions of the submitted Small Business Subcontracting.

**Volume II – Price Factor**

1. Each Quoter is cautioned to submit its most competitive firm-fixed price quote. Due to the value of this GSA order, a price reduction to the negotiated GSA Contract rates is requested. Quoters are requested to complete/fill-in the prices in the Microsoft Excel® Spreadsheets at the end of Section 2, Full-Text Procurement Unique Clauses. All pages in Volume II shall be numbered and identified with the Quoter's name, RFQ number, and date. A table of contents shall be provided with figures and tables listed separately.

The Quoter shall provide a narrative at the beginning of Volume II that identifies each indirect component with its associated value for Lump Sum, fully burden labor rates, and Prepriced work and a narrative for all the material handling coefficient factors with their associated value for IDIQ work. The indirect components associated with Lump Sum, fully burden labor rates, Prepriced work and the material handling coefficient factors components will be used in the evaluation for reasonableness and realism of proposed prices and price components.

2. The initial period of performance is for three (3) years, including phase-in. The Government may, at its option, extend the order for up to two (2) one-year option periods, and the contractor may be awarded up to five (5) award-term extensions in the period of performance. For pricing purposes, the Quoter shall use a start date for the base period of April 1, 2003.
3. Quoter's are reminded that proposed prices shall not include any contingency to cover increased costs for which an adjustment is provided under FAR clause 52.222-43, Fair Labor Standards Act and Service Contract Act -- Price Adjustment (Multiple Year and Option Contracts), (May 1989).

4. Quoters shall complete Contract Line Item Number (CLIN) Basis of Estimate (BOE) form(s) for Lump Sum and Prepriced work to include an itemization of the basis of estimate for each Lump Sum or Prepriced CLIN. Blank forms that include each CLIN are provided as Attachment 4-3. The rationale column shall briefly identify skill or skill mix anticipated to perform the service, the labor rate for those skills, estimated performance time in hours, and material cost. The Quoter may use historical data provided in various attachments, Quoter's experience, and relevant reference material for the BOE. An example is provided in Attachment 4-4. The Quoters shall round BOEs to whole dollars. The forms shall be submitted for each Base year, each of the two option years and each of the five award-term periods. This form is designed to allow Quoters to provide the basis of the pricing to support the total value of each CLIN identified in Section 2 as Lump Sum and Prepriced Work. Upon completion of the BOE forms, the CLIN values shall be transferred to the Schedule of Prices spreadsheets, which are included in Section 2.
5. Quoters are required to provide complete detail for all material handling coefficient factors (Clause 8, IDIQ Ordering Procedures) and include coefficient factor data on Attachment 4-7. Material handling coefficients shall include only costs clearly excluded from the fully burden labor rates. Material handling coefficients may include all appropriate indirect costs allocated to direct materials in accordance with the Contractor's usual accounting procedures. A separate and unique material-handling coefficient is established for each type of work, FFP, Specialty Services and Equipment, and T&M Work.
6. Summary of Fixed Price Lump Sum

Attachment 4-5 shall include the total price broken out by (1) Prime and major subcontracts associated with all Lump Sum fixed price work, except for Lump Sum options; and (2) phase-in period, each base year, each option year, each award-term period, and grand total. For price purposes, major subcontracts are defined as those subcontracts in excess of \$500,000.

7. Phase-in Costs.

The Quoter shall identify as a separate amount, any phase-in costs associated with the phase-in period and transition from the current contract requirements and staffing levels to those anticipated to fulfill the requirements of this RFQ. The Quoter shall include cost of administration, relocation, employee sign-on, training, re-training, and any other costs associated with the phase-in/phase-out plan. Phase-in costs should be fully explained as it relates to the phase-in/phase-out approach included in the Management Approach of your Mission Suitability Quotation (Volume I). For evaluation purposes, the quoter shall submit the costs for providing a

full twelve (12) months of effort for the first order year assuming that no phase-in is required; this will provide the Evaluation Team with a common basis for evaluating each Attachment 4-3 "Base Year A."

8. The Quoter shall transfer the total Lump Sum pricing data and the Prepriced Work for each base year, each option year, and each award-term period to Attachment 4-6. The Quoter shall insert the appropriate IDIQ material handling coefficient factor on Attachment 4-6 and multiply the Government-provided bare cost by the coefficient factor to provide IDIQ cost/price data for evaluation purposes. The Quoter shall insert the appropriate fully burden labor rate from Section 2 Microsoft Excel® spreadsheet titled "Schedule of Prices for Fixed Labor Rates" and multiply the rate by the Government-provided labor hours. An example of a completed cost/price evaluation is included in Attachment 4-6.

Volume IV – Completed RFQ and Signed SF 1449

The Quoter shall complete Blocks 12, 17, 23, 24, and 30 of the SF 1449 and include three copies of the SF 1449 in this volume. All three copies of the SF 1449 shall have an original signature in Item 17.

The Quoter shall complete all fill-in sections of the RFQ and include the completed Model Order (Sections 1 through 2 plus Provision 4-2 and Attachment 1) and the completed forms in this volume following the SF 1449. Fill-ins are included on the first two pages of section 1, Clauses 2, 21, 22, and 31 in section 2 and in provision 4-2 in section 4.

**4-8. MSFC DOCUMENTATION REPOSITORY**

NASA and MSFC documents referenced in this solicitation may be obtained by assessing the following URL addresses:

NASA – NPD and NPG – [http://nodis3.gsfc.nasa.gov/library/main\\_lib.html](http://nodis3.gsfc.nasa.gov/library/main_lib.html)

NASA – STD – <http://www.hq.nasa.gov/office/codeq/doctree/safeheal.htm>

MSFC – MPD, MPG, MWI, and OWI –  
<https://msfcmr03.msfc.nasa.gov/directives/directives.htm>

A viewing room is available at the MSFC Documentation Repository, AD33D, Building 4491, telephone (256) 544-4490, George C. Marshall Space Flight Center, Marshall Space Flight Center, AL 35812 from Monday to Friday from 9 AM to 3 PM for the following documents. Quoters shall notify Mr. Daniel Fuller via e-mail addressed to [Dan.Fuller@msfc.nasa.gov](mailto:Dan.Fuller@msfc.nasa.gov) by 10 AM of the prior business day to obtain access to the viewing room. Check in at the Work Order Desk, room 103.

The documents listed below will be available for viewing in room 133 and shall not be copied.

- RDT&E Equipment Work Orders 1997 – 2002
- Controlled Equipment Listing
- Consolidated Environmental Response Plan
- Alabama Department of Environmental Management, Major Source Operating Permit
- Pollution Prevention Plan
- Management Information and Control System User and Operations Guide
- Insignificant Air Source Listing
- Fingerprint User's Manual for the Waste Control and Tracking System (WCATS)
- Vehicle Equipment Operations System Users Requirements
- Supplies and Materials Detailed Background and Historical List
- NASA Export Control Program
- NASA Procedures for Exports to Russia Hardware and Technical Data (Including Software)
- Flight Hardware Support Request System User's Manual
- Warehouse Asset Bin Location Report
- Guidance on the use of Encryption and Digital Signatures for the Protection of Sensitive but Unclassified Information
- Samples of MSFC Approved Furniture
- User's Guides for NASA Supply Management System (NSMS), NASA Property Disposal Management System (NPDMS), and NASA Equipment Management System (NEMS).  
(End of Provision)

#### **4-9. REQUIRED FORMS**

- A. The form checked below is attached to the end of this solicitation and shall be submitted prior to award of any order resulting from this solicitation, upon request from the responsible contracting office.

     FAR 15.406-2 - Certificate of Current Cost or Pricing Data

- B. The forms checked below are required to be submitted in the performance of any order awarded as a result of this solicitation. Forms are available in Part 53 of the FAR or NASA FAR Supplement. An information copy of a form may be obtained from the responsible contracting office. See FAR 52.253-1 and 53.105(b) for information on the use of computer generated forms. See FAR 53.107(b) for information on obtaining multiple copies of forms.

     SF 272 - Federal Cash Transaction Report

  X   SF 294 - Subcontracting Report for Individual Contracts

     SF 295 - Summary Subcontract Report

     SF 298 - Report Documentation Page

  X   SF 1034 - Public Voucher for Purchases and Services Other Than Personal

     SF 1413 - Statement and Acknowledgement

     SF 1414 - Consent of Surety

  X   SF 3881 - Payment Information Form ACH Vendor Payment System

     NASA Form 533M - Monthly Contractor Financial Management Report

     NASA Form 533Q - Quarterly Contractor Financial Management Report

     NASA Form 778 - Contractor's Release

  X   NASA Form 780 - Contractor's Assignment of Refunds, Rebates, Credits, and Other Amounts

     NASA Form 1018 - NASA Property in the Custody of Contractors

—  
X DD Form 250 - Material Inspection and Receiving Report  
X DD Form 1419 - DOD Industrial Plant Equipment Requisition, if  
— applicable

(End of Provision)

LIST OF ATTACHMENTS AND FORMS FOR SECTION 4

<u>Attachments</u>	<u>Title</u>	<u>Pages</u>
4-1	Key Personnel Position Description and Resume	4-1-1 - 4-1-4
4-2	Job Description/Qualification (JD/Q) Form (for all personnel other than key)	4-2-1 - 4-2-2
4-3	MSFC Logistics Services – Lump Sum and Prepriced Work Basis of Estimate (BOE) Contract Line Item Number	4-3-1 - 4-3-70
4-4	Examples for Lump Sum and Prepriced Work Basis of Estimate (BOE) Calculations	4-4-1
4-5	Summary of Cost/Price by Prime and Major Subcontractor	4-5-1
4-6	Cost/Price Evaluation	4-6-1 - 4-6-33
4-7	IDIQ Coefficients	4-7-1 - 4-7-3
4-8	Synopsis of Logistics Services Performance Work Statement	4-8-1 - 4-8-2
4-9	Past Performance Form Letter Example	4-9-1
4-10	Past Performance Interview/Questionnaire Form	4-10-1 - 4-10-9
4-11	Lost Time Incident Chart	4-11-1

(END OF SECTION)



KEY PERSONNEL POSITION DESCRIPTION AND RESUME

(Complete one form for each proposed Key Person. Copies of this form should be used for continuation of work experience; use plain bond paper if additional space is needed otherwise. Start with the present or most recent position and work back. Do not submit work experience prior to 1990. Employer and customer references may be contacted during the quotation evaluation period. The availability of the person referenced, complete mailing address, and complete telephone number shall be verified by the quoter before submission).

---

PROPOSED POSITION TITLE:

PROPOSED POSITION SALARY: \_\_\_\_\_

NAME OF PROPOSED KEY PERSON:

CURRENT EMPLOYER:

---

DESCRIPTION AND SCOPE OF PROPOSED KEY POSITION:

RATIONALE FOR SELECTING THIS AS A KEY POSITION:

REASONS FOR SELECTING PROPOSED PERSON FOR THIS POSITION:

THE PROPOSED PERSON:

HAS \_\_\_\_\_ HAS NOT \_\_\_\_\_ BEEN CONTACTED  
IS \_\_\_\_\_ IS NOT \_\_\_\_\_ COMMITTED TO THE PROPOSED  
POSITION  
HAS \_\_\_\_\_ HAS NOT \_\_\_\_\_ BEEN INCLUDED IN CONCURRENT  
PROPOSALS/QUOTATIONS  
WILL DEVOTE \_\_\_\_\_ % OF TIME TO THIS CONTRACT

ATTACHMENT 4-1

COLLEGE EDUCATION OF PROPOSED KEY PERSONNEL:

NAME & LOCATION OF  
OF INSTITUTION      YEAR OF DEGREE      TYPE OF DEGREE & MAJOR

OTHER SPECIALIZED TRAINING/MEMBERSHIP IN PROFESSIONAL SOCIETIES:

---

EMPLOYMENT HISTORY (SINCE 1990) STARTING WITH CURRENT POSITION:

*EXPLAIN ANY INTERRUPTIONS IN EMPLOYMENT*

DATES EMPLOYED:

TITLE/SALARY:

EMPLOYER & LOCATION:  
BUSINESS:

TYPE OF

NO. & KIND OF EMPLOYEES SUPERVISED:

EMPLOYER REFERENCE & PHONE NUMBER:

CUSTOMER REFERENCE & PHONE NUMBER:

JOB DESCRIPTION/ACCOMPLISHMENTS:

ATTACHMENT 4-1

DATES EMPLOYED:

TITLE/SALARY:

EMPLOYER & LOCATION:  
BUSINESS:

TYPE OF

NO. & KIND OF EMPLOYEES SUPERVISED:

EMPLOYER REFERENCE & PHONE NUMBER:

CUSTOMER REFERENCE & PHONE NUMBER:

JOB DESCRIPTION/ACCOMPLISHMENTS:

---

DATES EMPLOYED:

TITLE/SALARY:

EMPLOYER & LOCATION:  
BUSINESS:

TYPE OF

NO. & KIND OF EMPLOYEES SUPERVISED:

EMPLOYER REFERENCE & PHONE NUMBER:

CUSTOMER REFERENCE & PHONE NUMBER:

JOB DESCRIPTION/ACCOMPLISHMENTS:



Job Description/Qualification Form (JD/Q)

<b>TITLE</b>	CONTRACTOR JOB TITLE: _____ SCA WAGE DETERMINATION TITLE: _____ SCA Directory of Occupations # _____
<b>TYPE</b>	<input type="checkbox"/> EXEMPT <input type="checkbox"/> NON-EXEMPT <input type="checkbox"/> CONFORMED
<b>SALARY RANGE</b>	ANNUAL FROM: _____ TO: _____ HOURLY FROM: _____ TO: _____
<b>FRINGE BENEFITS</b>	AVERAGE HOURLY COST OF FRINGE BENEFITS _____
<b>DESCRIPTION</b>	_____ _____ _____
<b>QUALIFICATION REQUIREMENTS</b>	EDUCATION: _____ EXPERIENCE: _____ _____

<b>TITLE</b>	CONTRACTOR JOB TITLE: _____ SCA WAGE DETERMINATION TITLE: _____ SCA Directory of Occupations # _____
<b>TYPE</b>	<input type="checkbox"/> EXEMPT <input type="checkbox"/> NON-EXEMPT <input type="checkbox"/> CONFORMED
<b>SALARY RANGE</b>	ANNUAL FROM: _____ TO: _____ HOURLY FROM: _____ TO: _____
<b>FRINGE BENEFITS</b>	AVERAGE HOURLY COST OF FRINGE BENEFITS _____
<b>DESCRIPTION</b>	_____ _____ _____
<b>QUALIFICATION REQUIREMENTS</b>	EDUCATION: _____ EXPERIENCE: _____ _____

<b>TITLE</b>	CONTRACTOR JOB TITLE: _____ SCA WAGE DETERMINATION TITLE: _____ SCA Directory of Occupations # _____
<b>TYPE</b>	<input type="checkbox"/> EXEMPT <input type="checkbox"/> NON-EXEMPT <input type="checkbox"/> CONFORMED
<b>SALARY RANGE</b>	ANNUAL FROM: _____ TO: _____ HOURLY FROM: _____ TO: _____
<b>FRINGE BENEFITS</b>	AVERAGE HOURLY COST OF FRINGE BENEFITS _____
<b>DESCRIPTION</b>	_____ _____ _____
<b>QUALIFICATION REQUIREMENTS</b>	EDUCATION: _____ EXPERIENCE: _____ _____

Instructions for Completing Job Description/Qualification Form (JD/Q)

**TITLE**

There are three Job Description/Qualification forms per page. One form is to be completed for each job title. (**NOTICE:** This applies to all proposing subcontractors as well)

- **Contractor Job Title** - Enter your job title if different from the SCA job titles.
- **SCA Wage Determination Job Title** - Enter the accurate Service Contract Act (SCA) job title and SCA job number from the SCA Wage Determination or the job title from the Collective Bargaining Agreement, as appropriate.
- [**NOTE:** Detailed position descriptions are contained in the SCA Directory of Occupations, Fourth Edition, dated January 1993 (as amended by the Third Supplement, dated March 10, 1997) for each job classification listed on the wage determination]. The SCA Directory of Occupations can also be found on-line at the following address:  
<http://www.dol.gov/dol/esa/public/regs/compliance/whd/wage/main.htm>

**TYPE**

Place an X in the Box that is applicable to the job title.

- **Exempt** - Those job classifications identified in Title 29 CFR Part 541 as exempt classifications.
- **Nonexempt** - Job classifications other than those exempt by 29 CFR Part 541.

**SALARY AND WAGE RANGES:**

For the specified job title, enter the lowest annual pay in the **Annual From** space and the top annual pay in the corresponding **To** space or enter the equivalent lowest hourly pay in the **Hourly From** space and the top hourly pay in the corresponding **To** space.

**FRINGE BENEFITS:**

Provide the exact average hourly cost of fringe benefits.

**NOTICE:** The average hourly cost of fringe benefits for service (non-exempt) employees **shall not include** the cost of vacation pay, holiday pay, liability insurance, state and Federal taxes, professional liability insurance, unemployment or workmen's compensation insurance, etc. See FAR Clause 52.222-41 (d) for full details. **NOTE:** The average hourly cost of fringe benefits **must** be computed separately for **Exempt** (those employees not covered by the SCA) and **Nonexempt** (those employees covered by the SCA) job titles.

**DESCRIPTION**

Briefly describe the duties performed under the specified job title.

**QUALIFICATION REQUIREMENTS**

Identify the education and experience requirements for an employee to qualify for the specified job title.



**ATTACHMENT 4-3**

**MSFC LOGISTICS SERVICES - LUMP SUM AND PREPRICED WORK BASIS OF ESTIMATE (BOE) -  
CONTRACT LINE ITEM NUMBER**

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0001.0101							
0001.0102							
0001.0103							
0001.0104							
0001.0105							
0001.0106							
0001.0107							
0001.0108							
0001.0109							
0001.0110							
0001.0111							
0001.0112							
0001.0113							
0001.0114							
0001.0115							
0001.0116							
0001.0117							
0001.0301							
0001.0302							
0001.0303							
0001.0304							
0001.0305							
0001.0306							
0001.0307							

434

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0001.0308							
0001.0309							
0001.0310							
0001.0311							
0001.0312							
0001.0313							
0001.0314							
0001.0315							
0001.0316							
0001.0317							
0001.0318							
0001.0319							
0001.0320							
0001.0321							
0001.0322							
0001.0323							
0001.0401							
0001.0402							
0001.0403							
0001.0501							
0001.0502							
0001.0503							
0001.0504							
0001.0505							
0001.0506							
0001.0507							
0001.0508							
0001.0509							
0001.0510							

728

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0001.0511							
0001.0512							
0001.0513							
0001.0514							
0001.0515							
0001.0516							
0001.0517							
0001.0518							
0001.0519							
0001.0520							
0001.0521							
0001.0522							
0001.0523							
0001.0524							
0001.0525							
0001.0526							
0001.0527							
0001.0528							
0001.0529							
0001.0530							
0001.0531							
0001.0532							
0001.0533							
0001.0534							
0001.0535							
0001.0536							
0001.0537							
0001.0538							
0001.0539							

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0001.0540							
0001.0541							
0001.0542							
0001.0543							
0001.0601							
0001.0602							
0001.0603							
0001.0604							
0001.0605							
0001.0606							
0001.0607							
0001.0608							
0001.0609							
0001.0610							
0001.0611							
0001.0612							
0001.0613							
0001.0614							
0001.0615							
0001.0615							
0001.0616							
0001.0617							
0001.0618							
0001.0619							
0001.0620							
0001.0621							
0001.0622							
0001.0623							
0001.0624							

730

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0001.0625							
0001.0626							
0001.0701							
0001.0702							
0001.0703							
0001.0704							
0001.0705							
0001.0706							
0001.0707							
0001.0708							
0001.0709							
0001.0710							
0001.0711							
0001.0712							
0001.0713							
0001.0714							
0001.0715							
0001.0716							
0001.0717							
0001.0718							
0001.0719							
0001.0720							
0001.0721							
0001.0722							
0001.0723							
0001.0724							
0001.0725							
0001.0726							
0001.0801							

731

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	RATIONALE	BOE		UNIT	UNIT PRICE	TOTAL PRICE
			LABOR	MATERIAL			
0001.0802							
0001.0803							
0001.0804							
0001.0805							
0001.0806							
0001.0807							
0001.0901							
0001.0902							
0001.0903							
0001.0904							
0001.0905							
0001.1001							
0002.0101							
0002.0401							
0002.0601							
0002.0701							
0002.0702							
0002.0703							
0002.0704							
0002.0705							
0002.0706							
0002.0707							
0002.0708							
0002.0709							
0002.0710							
0002.0711							
0002.0801							

732

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0002.0802							
0002.0803							
0002.0804							
0002.0805							
0002.0806							
0002.0807							
0002.0808							
0002.0809							
0002.0810							
0002.0811							
0002.0812							
0002.0813							
0002.0814							
0002.0815							

733

**ATTACHMENT 4-3**

**MSFC LOGISTICS SERVICES - LUMP SUM AND PREPRICED WORK BASIS OF ESTIMATE (BOE) -  
CONTRACT LINE ITEM NUMBER**

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0011.0101							
0011.0102							
0011.0103							
0011.0104							
0011.0105							
0011.0106							
0011.0107							
0011.0108							
0011.0109							
0011.0110							
0011.0111							
0011.0112							
0011.0113							
0011.0114							
0011.0115							
0011.0116							
0011.0117							
0011.0301							
0011.0302							
0011.0303							
0011.0304							
0011.0305							
0011.0306							
0011.0307							

704

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0011.0308							
0011.0309							
0011.0310							
0011.0311							
0011.0312							
0011.0313							
0011.0314							
0011.0315							
0011.0316							
0011.0317							
0011.0318							
0011.0319							
0011.0320							
0011.0321							
0011.0322							
0011.0323							
0011.0401							
0011.0402							
0011.0403							
0011.0501							
0011.0502							
0011.0503							
0011.0504							
0011.0505							
0011.0506							
0011.0507							
0011.0508							
0011.0509							
0011.0510							

735

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0011.0511							
0011.0512							
0011.0513							
0011.0514							
0011.0515							
0011.0516							
0011.0517							
0011.0518							
0011.0519							
0011.0520							
0011.0521							
0011.0522							
0011.0523							
0011.0524							
0011.0525							
0011.0526							
0011.0527							
0011.0528							
0011.0529							
0011.0530							
0011.0531							
0011.0532							
0011.0533							
0011.0534							
0011.0535							
0011.0536							
0011.0537							
0011.0538							
0011.0539							

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0011.0540							
0011.0541							
0011.0542							
0011.0543							
0011.0601							
0011.0602							
0011.0603							
0011.0604							
0011.0605							
0011.0606							
0011.0607							
0011.0608							
0011.0609							
0011.0610							
0011.0611							
0011.0612							
0011.0613							
0011.0614							
0011.0615							
0011.0615							
0011.0616							
0011.0617							
0011.0618							
0011.0619							
0011.0620							
0011.0621							
0011.0622							
0011.0623							
0011.0624							

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0011.0625							
0011.0626							
0011.0701							
0011.0702							
0011.0703							
0011.0704							
0011.0705							
0011.0706							
0011.0707							
0011.0708							
0011.0709							
0011.0710							
0011.0711							
0011.0712							
0011.0713							
0011.0714							
0011.0715							
0011.0716							
0011.0717							
0011.0718							
0011.0719							
0011.0720							
0011.0721							
0011.0722							
0011.0723							
0011.0724							
0011.0725							
0011.0726							
0011.0801							

738

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0011.0802							
0011.0803							
0011.0804							
0011.0805							
0011.0806							
0011.0807							
0011.0901							
0011.0902							
0011.0903							
0011.0904							
0011.0905							
0011.1001							
0012.0101							
0012.0401							
0012.0601							
0012.0701							
0012.0702							
0012.0703							
0012.0704							
0012.0705							
0012.0706							
0012.0707							
0012.0708							
0012.0709							
0012.0710							
0012.0711							
0012.0801							

739

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0012.0802							
0012.0803							
0012.0804							
0012.0805							
0012.0806							
0012.0807							
0012.0808							
0012.0809							
0012.0810							
0012.0811							
0012.0812							
0012.0813							
0012.0814							
0012.0815							

**ATTACHMENT 4-3**

**MSFC LOGISTICS SERVICES - LUMP SUM AND PREPRICED WORK BASIS OF ESTIMATE (BOE) -  
CONTRACT LINE ITEM NUMBER**

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0021.0101							
0021.0102							
0021.0103							
0021.0104							
0021.0105							
0021.0106							
0021.0107							
0021.0108							
0021.0109							
0021.0110							
0021.0111							
0021.0112							
0021.0113							
0021.0114							
0021.0115							
0021.0116							
0021.0117							
0021.0301							
0021.0302							
0021.0303							
0021.0304							
0021.0305							
0021.0306							
0021.0307							

741

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0021.0308							
0021.0309							
0021.0310							
0021.0311							
0021.0312							
0021.0313							
0021.0314							
0021.0315							
0021.0316							
0021.0317							
0021.0318							
0021.0319							
0021.0320							
0021.0321							
0021.0322							
0021.0323							
0021.0401							
0021.0402							
0021.0403							
0021.0501							
0021.0502							
0021.0503							
0021.0504							
0021.0505							
0021.0506							
0021.0507							
0021.0508							
0021.0509							
0021.0510							

742

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0021.0511							
0021.0512							
0021.0513							
0021.0514							
0021.0515							
0021.0516							
0021.0517							
0021.0518							
0021.0519							
0021.0520							
0021.0521							
0021.0522							
0021.0523							
0021.0524							
0021.0525							
0021.0526							
0021.0527							
0021.0528							
0021.0529							
0021.0530							
0021.0531							
0021.0532							
0021.0533							
0021.0534							
0021.0535							
0021.0536							
0021.0537							
0021.0538							
0021.0539							

743

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0021.0540							
0021.0541							
0021.0542							
0021.0543							
0021.0601							
0021.0602							
0021.0603							
0021.0604							
0021.0605							
0021.0606							
0021.0607							
0021.0608							
0021.0609							
0021.0610							
0021.0611							
0021.0612							
0021.0613							
0021.0614							
0021.0615							
0021.0615							
0021.0616							
0021.0617							
0021.0618							
0021.0619							
0021.0620							
0021.0621							
0021.0622							
0021.0623							
0021.0624							

744

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0021.0625							
0021.0626							
0021.0701							
0021.0702							
0021.0703							
0021.0704							
0021.0705							
0021.0706							
0021.0707							
0021.0708							
0021.0709							
0021.0710							
0021.0711							
0021.0712							
0021.0713							
0021.0714							
0021.0715							
0021.0716							
0021.0717							
0021.0718							
0021.0719							
0021.0720							
0021.0721							
0021.0722							
0021.0723							
0021.0724							
0021.0725							
0021.0726							
0021.0801							

745

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0021.0802							
0021.0803							
0021.0804							
0021.0805							
0021.0806							
0021.0807							
0021.0901							
0021.0902							
0021.0903							
0021.0904							
0021.0905							
0021.1001							
0022.0101							
0022.0401							
0022.0601							
0022.0701							
0022.0702							
0022.0703							
0022.0704							
0022.0705							
0022.0706							
0022.0707							
0022.0708							
0022.0709							
0022.0710							
0022.0711							
0022.0801							

745

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0022.0802							
0022.0803							
0022.0804							
0022.0805							
0022.0806							
0022.0807							
0022.0808							
0022.0809							
0022.0810							
0022.0811							
0022.0812							
0022.0813							
0022.0814							
0022.0815							

**ATTACHMENT 4-3**

**MSFC LOGISTICS SERVICES - LUMP SUM AND PREPRICED WORK BASIS OF ESTIMATE (BOE) -  
CONTRACT LINE ITEM NUMBER**

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	RATIONALE	BOE		UNIT	UNIT PRICE	TOTAL PRICE
			LABOR	MATERIAL			
0031.0101							
0031.0102							
0031.0103							
0031.0104							
0031.0105							
0031.0106							
0031.0107							
0031.0108							
0031.0109							
0031.0110							
0031.0111							
0031.0112							
0031.0113							
0031.0114							
0031.0115							
0031.0116							
0031.0117							
0031.0301							
0031.0302							
0031.0303							
0031.0304							
0031.0305							
0031.0306							
0031.0307							

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0031.0308							
0031.0309							
0031.0310							
0031.0311							
0031.0312							
0031.0313							
0031.0314							
0031.0315							
0031.0316							
0031.0317							
0031.0318							
0031.0319							
0031.0320							
0031.0321							
0031.0322							
0031.0323							
0031.0401							
0031.0402							
0031.0403							
0031.0501							
0031.0502							
0031.0503							
0031.0504							
0031.0505							
0031.0506							
0031.0507							
0031.0508							
0031.0509							
0031.0510							

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0031.0511							
0031.0512							
0031.0513							
0031.0514							
0031.0515							
0031.0516							
0031.0517							
0031.0518							
0031.0519							
0031.0520							
0031.0521							
0031.0522							
0031.0523							
0031.0524							
0031.0525							
0031.0526							
0031.0527							
0031.0528							
0031.0529							
0031.0530							
0031.0531							
0031.0532							
0031.0533							
0031.0534							
0031.0535							
0031.0536							
0031.0537							
0031.0538							
0031.0539							

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0031.0540							
0031.0541							
0031.0542							
0031.0543							
0031.0601							
0031.0602							
0031.0603							
0031.0604							
0031.0605							
0031.0606							
0031.0607							
0031.0608							
0031.0609							
0031.0610							
0031.0611							
0031.0612							
0031.0613							
0031.0614							
0031.0615							
0031.0615							
0031.0616							
0031.0617							
0031.0618							
0031.0619							
0031.0620							
0031.0621							
0031.0622							
0031.0623							
0031.0624							

751

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0031.0625							
0031.0626							
0031.0701							
0031.0702							
0031.0703							
0031.0704							
0031.0705							
0031.0706							
0031.0707							
0031.0708							
0031.0709							
0031.0710							
0031.0711							
0031.0712							
0031.0713							
0031.0714							
0031.0715							
0031.0716							
0031.0717							
0031.0718							
0031.0719							
0031.0720							
0031.0721							
0031.0722							
0031.0723							
0031.0724							
0031.0725							
0031.0726							
0031.0801							

752

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0031.0802							
0031.0803							
0031.0804							
0031.0805							
0031.0806							
0031.0807							
0031.0901							
0031.0902							
0031.0903							
0031.0904							
0031.0905							
0031.1001							
0032.0101							
0032.0401							
0032.0601							
0032.0701							
0032.0702							
0032.0703							
0032.0704							
0032.0705							
0032.0706							
0032.0707							
0032.0708							
0032.0709							
0032.0710							
0032.0711							
0032.0801							

753

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0032.0802							
0032.0803							
0032.0804							
0032.0805							
0032.0806							
0032.0807							
0032.0808							
0032.0809							
0032.0810							
0032.0811							
0032.0812							
0032.0813							
0032.0814							
0032.0815							

**ATTACHMENT 4-3**

**MSFC LOGISTICS SERVICES - LUMP SUM AND PREPRICED WORK BASIS OF ESTIMATE (BOE) -  
CONTRACT LINE ITEM NUMBER**

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0041.0101							
0041.0102							
0041.0103							
0041.0104							
0041.0105							
0041.0106							
0041.0107							
0041.0108							
0041.0109							
0041.0110							
0041.0111							
0041.0112							
0041.0113							
0041.0114							
0041.0115							
0041.0116							
0041.0117							
0041.0301							
0041.0302							
0041.0303							
0041.0304							
0041.0305							
0041.0306							
0041.0307							

755

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0041.0308							
0041.0309							
0041.0310							
0041.0311							
0041.0312							
0041.0313							
0041.0314							
0041.0315							
0041.0316							
0041.0317							
0041.0318							
0041.0319							
0041.0320							
0041.0321							
0041.0322							
0041.0323							
0041.0401							
0041.0402							
0041.0403							
0041.0501							
0041.0502							
0041.0503							
0041.0504							
0041.0505							
0041.0506							
0041.0507							
0041.0508							
0041.0509							
0041.0510							

756

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0041.0511							
0041.0512							
0041.0513							
0041.0514							
0041.0515							
0041.0516							
0041.0517							
0041.0518							
0041.0519							
0041.0520							
0041.0521							
0041.0522							
0041.0523							
0041.0524							
0041.0525							
0041.0526							
0041.0527							
0041.0528							
0041.0529							
0041.0530							
0041.0531							
0041.0532							
0041.0533							
0041.0534							
0041.0535							
0041.0536							
0041.0537							
0041.0538							
0041.0539							

757

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0041.0540							
0041.0541							
0041.0542							
0041.0543							
0041.0601							
0041.0602							
0041.0603							
0041.0604							
0041.0605							
0041.0606							
0041.0607							
0041.0608							
0041.0609							
0041.0610							
0041.0611							
0041.0612							
0041.0613							
0041.0614							
0041.0615							
0041.0615							
0041.0616							
0041.0617							
0041.0618							
0041.0619							
0041.0620							
0041.0621							
0041.0622							
0041.0623							
0041.0624							

758

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0041.0625							
0041.0626							
0041.0701							
0041.0702							
0041.0703							
0041.0704							
0041.0705							
0041.0706							
0041.0707							
0041.0708							
0041.0709							
0041.0710							
0041.0711							
0041.0712							
0041.0713							
0041.0714							
0041.0715							
0041.0716							
0041.0717							
0041.0718							
0041.0719							
0041.0720							
0041.0721							
0041.0722							
0041.0723							
0041.0724							
0041.0725							
0041.0726							
0041.0801							

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0041.0802							
0041.0803							
0041.0804							
0041.0805							
0041.0806							
0041.0807							
0041.0901							
0041.0902							
0041.0903							
0041.0904							
0041.0905							
0041.1001							
0042.0101							
0042.0401							
0042.0601							
0042.0701							
0042.0702							
0042.0703							
0042.0704							
0042.0705							
0042.0706							
0042.0707							
0042.0708							
0042.0709							
0042.0710							
0042.0711							
0042.0801							

760

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0042.0802							
0042.0803							
0042.0804							
0042.0805							
0042.0806							
0042.0807							
0042.0808							
0042.0809							
0042.0810							
0042.0811							
0042.0812							
0042.0813							
0042.0814							
0042.0815							

**ATTACHMENT 4-3**

**MSFC LOGISTICS SERVICES - LUMP SUM AND PREPRICED WORK BASIS OF ESTIMATE (BOE) -  
CONTRACT LINE ITEM NUMBER**

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0051.0101							
0051.0102							
0051.0103							
0051.0104							
0051.0105							
0051.0106							
0051.0107							
0051.0108							
0051.0109							
0051.0110							
0051.0111							
0051.0112							
0051.0113							
0051.0114							
0051.0115							
0051.0116							
0051.0117							
0051.0301							
0051.0302							
0051.0303							
0051.0304							
0051.0305							
0051.0306							
0051.0307							

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0051.0308							
0051.0309							
0051.0310							
0051.0311							
0051.0312							
0051.0313							
0051.0314							
0051.0315							
0051.0316							
0051.0317							
0051.0318							
0051.0319							
0051.0320							
0051.0321							
0051.0322							
0051.0323							
0051.0401							
0051.0402							
0051.0403							
0051.0501							
0051.0502							
0051.0503							
0051.0504							
0051.0505							
0051.0506							
0051.0507							
0051.0508							
0051.0509							
0051.0510							

763

<i>Quoter may adjust row height and width to accommodate data insertion.</i>							
CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0051.0511							
0051.0512							
0051.0513							
0051.0514							
0051.0515							
0051.0516							
0051.0517							
0051.0518							
0051.0519							
0051.0520							
0051.0521							
0051.0522							
0051.0523							
0051.0524							
0051.0525							
0051.0526							
0051.0527							
0051.0528							
0051.0529							
0051.0530							
0051.0531							
0051.0532							
0051.0533							
0051.0534							
0051.0535							
0051.0536							
0051.0537							
0051.0538							
0051.0539							

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0051.0540							
0051.0541							
0051.0542							
0051.0543							
0051.0601							
0051.0602							
0051.0603							
0051.0604							
0051.0605							
0051.0606							
0051.0607							
0051.0608							
0051.0609							
0051.0610							
0051.0611							
0051.0612							
0051.0613							
0051.0614							
0051.0615							
0051.0615							
0051.0616							
0051.0617							
0051.0618							
0051.0619							
0051.0620							
0051.0621							
0051.0622							
0051.0623							
0051.0624							

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0051.0625							
0051.0626							
0051.0701							
0051.0702							
0051.0703							
0051.0704							
0051.0705							
0051.0706							
0051.0707							
0051.0708							
0051.0709							
0051.0710							
0051.0711							
0051.0712							
0051.0713							
0051.0714							
0051.0715							
0051.0716							
0051.0717							
0051.0718							
0051.0719							
0051.0720							
0051.0721							
0051.0722							
0051.0723							
0051.0724							
0051.0725							
0051.0726							
0051.0801							

766

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	RATIONALE	BOE		UNIT	UNIT PRICE	TOTAL PRICE
			LABOR	MATERIAL			
0051.0802							
0051.0803							
0051.0804							
0051.0805							
0051.0806							
0051.0807							
0051.0901							
0051.0902							
0051.0903							
0051.0904							
0051.0905							
0051.1001							
0052.0101							
0052.0401							
0052.0601							
0052.0701							
0052.0702							
0052.0703							
0052.0704							
0052.0705							
0052.0706							
0052.0707							
0052.0708							
0052.0709							
0052.0710							
0052.0711							
0052.0801							

767

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0052.0802							
0052.0803							
0052.0804							
0052.0805							
0052.0806							
0052.0807							
0052.0808							
0052.0809							
0052.0810							
0052.0811							
0052.0812							
0052.0813							
0052.0814							
0052.0815							

**ATTACHMENT 4-3**

**MSFC LOGISTICS SERVICES - LUMP SUM AND PREPRICED WORK BASIS OF ESTIMATE (BOE) -  
CONTRACT LINE ITEM NUMBER**

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0061.0101							
0061.0102							
0061.0103							
0061.0104							
0061.0105							
0061.0106							
0061.0107							
0061.0108							
0061.0109							
0061.0110							
0061.0111							
0061.0112							
0061.0113							
0061.0114							
0061.0115							
0061.0116							
0061.0117							
0061.0301							
0061.0302							
0061.0303							
0061.0304							
0061.0305							
0061.0306							
0061.0307							

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0061.0308							
0061.0309							
0061.0310							
0061.0311							
0061.0312							
0061.0313							
0061.0314							
0061.0315							
0061.0316							
0061.0317							
0061.0318							
0061.0319							
0061.0320							
0061.0321							
0061.0322							
0061.0323							
0061.0401							
0061.0402							
0061.0403							
0061.0501							
0061.0502							
0061.0503							
0061.0504							
0061.0505							
0061.0506							
0061.0507							
0061.0508							
0061.0509							
0061.0510							

022  
770

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0061.0511							
0061.0512							
0061.0513							
0061.0514							
0061.0515							
0061.0516							
0061.0517							
0061.0518							
0061.0519							
0061.0520							
0061.0521							
0061.0522							
0061.0523							
0061.0524							
0061.0525							
0061.0526							
0061.0527							
0061.0528							
0061.0529							
0061.0530							
0061.0531							
0061.0532							
0061.0533							
0061.0534							
0061.0535							
0061.0536							
0061.0537							
0061.0538							
0061.0539							

771

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0061.0540							
0061.0541							
0061.0542							
0061.0543							
0061.0601							
0061.0602							
0061.0603							
0061.0604							
0061.0605							
0061.0606							
0061.0607							
0061.0608							
0061.0609							
0061.0610							
0061.0611							
0061.0612							
0061.0613							
0061.0614							
0061.0615							
0061.0615							
0061.0616							
0061.0617							
0061.0618							
0061.0619							
0061.0620							
0061.0621							
0061.0622							
0061.0623							
0061.0624							

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0061.0625							
0061.0626							
0061.0701							
0061.0702							
0061.0703							
0061.0704							
0061.0705							
0061.0706							
0061.0707							
0061.0708							
0061.0709							
0061.0710							
0061.0711							
0061.0712							
0061.0713							
0061.0714							
0061.0715							
0061.0716							
0061.0717							
0061.0718							
0061.0719							
0061.0720							
0061.0721							
0061.0722							
0061.0723							
0061.0724							
0061.0725							
0061.0726							
0061.0801							

773

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0061.0802							
0061.0803							
0061.0804							
0061.0805							
0061.0806							
0061.0807							
0061.0901							
0061.0902							
0061.0903							
0061.0904							
0061.0905							
0061.1001							
0062.0101							
0062.0401							
0062.0601							
0062.0701							
0062.0702							
0062.0703							
0062.0704							
0062.0705							
0062.0706							
0062.0707							
0062.0708							
0062.0709							
0062.0710							
0062.0711							
0062.0801							

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0062.0802							
0062.0803							
0062.0804							
0062.0805							
0062.0806							
0062.0807							
0062.0808							
0062.0809							
0062.0810							
0062.0811							
0062.0812							
0062.0813							
0062.0814							
0062.0815							

**ATTACHMENT 4-3**

**MSFC LOGISTICS SERVICES - LUMP SUM AND PREPRICED WORK BASIS OF ESTIMATE (BOE) -  
CONTRACT LINE ITEM NUMBER**

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0071.0101							
0071.0102							
0071.0103							
0071.0104							
0071.0105							
0071.0106							
0071.0107							
0071.0108							
0071.0109							
0071.0110							
0071.0111							
0071.0112							
0071.0113							
0071.0114							
0071.0115							
0071.0116							
0071.0117							
0071.0301							
0071.0302							
0071.0303							
0071.0304							
0071.0305							
0071.0306							
0071.0307							

776

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0071.0308							
0071.0309							
0071.0310							
0071.0311							
0071.0312							
0071.0313							
0071.0314							
0071.0315							
0071.0316							
0071.0317							
0071.0318							
0071.0319							
0071.0320							
0071.0321							
0071.0322							
0071.0323							
0071.0401							
0071.0402							
0071.0403							
0071.0501							
0071.0502							
0071.0503							
0071.0504							
0071.0505							
0071.0506							
0071.0507							
0071.0508							
0071.0509							
0071.0510							

777

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0071.0511							
0071.0512							
0071.0513							
0071.0514							
0071.0515							
0071.0516							
0071.0517							
0071.0518							
0071.0519							
0071.0520							
0071.0521							
0071.0522							
0071.0523							
0071.0524							
0071.0525							
0071.0526							
0071.0527							
0071.0528							
0071.0529							
0071.0530							
0071.0531							
0071.0532							
0071.0533							
0071.0534							
0071.0535							
0071.0536							
0071.0537							
0071.0538							
0071.0539							

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0071.0540							
0071.0541							
0071.0542							
0071.0543							
0071.0601							
0071.0602							
0071.0603							
0071.0604							
0071.0605							
0071.0606							
0071.0607							
0071.0608							
0071.0609							
0071.0610							
0071.0611							
0071.0612							
0071.0613							
0071.0614							
0071.0615							
0071.0615							
0071.0616							
0071.0617							
0071.0618							
0071.0619							
0071.0620							
0071.0621							
0071.0622							
0071.0623							
0071.0624							

779

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0071.0625							
0071.0626							
0071.0701							
0071.0702							
0071.0703							
0071.0704							
0071.0705							
0071.0706							
0071.0707							
0071.0708							
0071.0709							
0071.0710							
0071.0711							
0071.0712							
0071.0713							
0071.0714							
0071.0715							
0071.0716							
0071.0717							
0071.0718							
0071.0719							
0071.0720							
0071.0721							
0071.0722							
0071.0723							
0071.0724							
0071.0725							
0071.0726							
0071.0801							

087

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0071.0802							
0071.0803							
0071.0804							
0071.0805							
0071.0806							
0071.0807							
0071.0901							
0071.0902							
0071.0903							
0071.0904							
0071.0905							
0071.1001							
0072.0101							
0072.0401							
0072.0601							
0072.0701							
0072.0702							
0072.0703							
0072.0704							
0072.0705							
0072.0706							
0072.0707							
0072.0708							
0072.0709							
0072.0710							
0072.0711							
0072.0801							

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0072.0802							
0072.0803							
0072.0804							
0072.0805							
0072.0806							
0072.0807							
0072.0808							
0072.0809							
0072.0810							
0072.0811							
0072.0812							
0072.0813							
0072.0814							
0072.0815							

782

**ATTACHMENT 4-3**

**MSFC LOGISTICS SERVICES - LUMP SUM AND PREPRICED WORK BASIS OF ESTIMATE (BOE) -  
CONTRACT LINE ITEM NUMBER**

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0081.0101							
0081.0102							
0081.0103							
0081.0104							
0081.0105							
0081.0106							
0081.0107							
0081.0108							
0081.0109							
0081.0110							
0081.0111							
0081.0112							
0081.0113							
0081.0114							
0081.0115							
0081.0116							
0081.0117							
0081.0301							
0081.0302							
0081.0303							
0081.0304							
0081.0305							
0081.0306							
0081.0307							

793

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0081.0308							
0081.0309							
0081.0310							
0081.0311							
0081.0312							
0081.0313							
0081.0314							
0081.0315							
0081.0316							
0081.0317							
0081.0318							
0081.0319							
0081.0320							
0081.0321							
0081.0322							
0081.0323							
0081.0401							
0081.0402							
0081.0403							
0081.0501							
0081.0502							
0081.0503							
0081.0504							
0081.0505							
0081.0506							
0081.0507							
0081.0508							
0081.0509							
0081.0510							

784

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0081.0511							
0081.0512							
0081.0513							
0081.0514							
0081.0515							
0081.0516							
0081.0517							
0081.0518							
0081.0519							
0081.0520							
0081.0521							
0081.0522							
0081.0523							
0081.0524							
0081.0525							
0081.0526							
0081.0527							
0081.0528							
0081.0529							
0081.0530							
0081.0531							
0081.0532							
0081.0533							
0081.0534							
0081.0535							
0081.0536							
0081.0537							
0081.0538							
0081.0539							

785

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0081.0540							
0081.0541							
0081.0542							
0081.0543							
0081.0601							
0081.0602							
0081.0603							
0081.0604							
0081.0605							
0081.0606							
0081.0607							
0081.0608							
0081.0609							
0081.0610							
0081.0611							
0081.0612							
0081.0613							
0081.0614							
0081.0615							
0081.0615							
0081.0616							
0081.0617							
0081.0618							
0081.0619							
0081.0620							
0081.0621							
0081.0622							
0081.0623							
0081.0624							

786

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0081.0625							
0081.0626							
0081.0701							
0081.0702							
0081.0703							
0081.0704							
0081.0705							
0081.0706							
0081.0707							
0081.0708							
0081.0709							
0081.0710							
0081.0711							
0081.0712							
0081.0713							
0081.0714							
0081.0715							
0081.0716							
0081.0717							
0081.0718							
0081.0719							
0081.0720							
0081.0721							
0081.0722							
0081.0723							
0081.0724							
0081.0725							
0081.0726							
0081.0801							

787

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0081.0802							
0081.0803							
0081.0804							
0081.0805							
0081.0806							
0081.0807							
0081.0901							
0081.0902							
0081.0903							
0081.0904							
0081.0905							
0081.1001							
0082.0101							
0082.0401							
0082.0601							
0082.0701							
0082.0702							
0082.0703							
0082.0704							
0082.0705							
0082.0706							
0082.0707							
0082.0708							
0082.0709							
0082.0710							
0082.0711							
0082.0801							

789

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0082.0802							
0082.0803							
0082.0804							
0082.0805							
0082.0806							
0082.0807							
0082.0808							
0082.0809							
0082.0810							
0082.0811							
0082.0812							
0082.0813							
0082.0814							
0082.0815							

**ATTACHMENT 4-3**

**MSFC LOGISTICS SERVICES - LUMP SUM AND PREPRICED WORK BASIS OF ESTIMATE (BOE) -  
CONTRACT LINE ITEM NUMBER**

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0091.0101							
0091.0102							
0091.0103							
0091.0104							
0091.0105							
0091.0106							
0091.0107							
0091.0108							
0091.0109							
0091.0110							
0091.0111							
0091.0112							
0091.0113							
0091.0114							
0091.0115							
0091.0116							
0091.0117							
0091.0301							
0091.0302							
0091.0303							
0091.0304							
0091.0305							
0091.0306							
0091.0307							

062

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0091.0308							
0091.0309							
0091.0310							
0091.0311							
0091.0312							
0091.0313							
0091.0314							
0091.0315							
0091.0316							
0091.0317							
0091.0318							
0091.0319							
0091.0320							
0091.0321							
0091.0322							
0091.0323							
0091.0401							
0091.0402							
0091.0403							
0091.0501							
0091.0502							
0091.0503							
0091.0504							
0091.0505							
0091.0506							
0091.0507							
0091.0508							
0091.0509							
0091.0510							

791

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0091.0511							
0091.0512							
0091.0513							
0091.0514							
0091.0515							
0091.0516							
0091.0517							
0091.0518							
0091.0519							
0091.0520							
0091.0521							
0091.0522							
0091.0523							
0091.0524							
0091.0525							
0091.0526							
0091.0527							
0091.0528							
0091.0529							
0091.0530							
0091.0531							
0091.0532							
0091.0533							
0091.0534							
0091.0535							
0091.0536							
0091.0537							
0091.0538							
0091.0539							

792

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0091.0540							
0091.0541							
0091.0542							
0091.0543							
0091.0601							
0091.0602							
0091.0603							
0091.0604							
0091.0605							
0091.0606							
0091.0607							
0091.0608							
0091.0609							
0091.0610							
0091.0611							
0091.0612							
0091.0613							
0091.0614							
0091.0615							
0091.0615							
0091.0616							
0091.0617							
0091.0618							
0091.0619							
0091.0620							
0091.0621							
0091.0622							
0091.0623							
0091.0624							

293

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0091.0625							
0091.0626							
0091.0701							
0091.0702							
0091.0703							
0091.0704							
0091.0705							
0091.0706							
0091.0707							
0091.0708							
0091.0709							
0091.0710							
0091.0711							
0091.0712							
0091.0713							
0091.0714							
0091.0715							
0091.0716							
0091.0717							
0091.0718							
0091.0719							
0091.0720							
0091.0721							
0091.0722							
0091.0723							
0091.0724							
0091.0725							
0091.0726							
0091.0801							

794

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	BOE			UNIT	UNIT PRICE	TOTAL PRICE
		RATIONALE	LABOR	MATERIAL			
0091.0802							
0091.0803							
0091.0804							
0091.0805							
0091.0806							
0091.0807							
0091.0901							
0091.0902							
0091.0903							
0091.0904							
0091.0905							
0091.1001							
0092.0101							
0092.0401							
0092.0601							
0092.0701							
0092.0702							
0092.0703							
0092.0704							
0092.0705							
0092.0706							
0092.0707							
0092.0708							
0092.0709							
0092.0710							
0092.0711							
0092.0801							

795

*Quoter may adjust row height and width to accommodate data insertion.*

CLIN	DESCRIPTION OF SERVICES/SUPPLIES	RATIONALE	BOE		UNIT	UNIT PRICE	TOTAL PRICE
			LABOR	MATERIAL			
0092.0802							
0092.0803							
0092.0804							
0092.0805							
0092.0806							
0092.0807							
0092.0808							
0092.0809							
0092.0810							
0092.0811							
0092.0812							
0092.0813							
0092.0814							
0092.0815							

795



Attachment 4-4

EXAMPLES FOR LUMP SUM AND PREPRICED WORK BASIS OF ESTIMATE (BOE) CALCULATIONS

Example 1 – Use the following example for all Lump Sum Work

		BOE			UNIT	UNIT PRICE	TOTAL PRICE
CLIN	DESCRIPTION OF SERVICES	RATIONALE	LABOR	MATERIAL			
	Gasoline, Portable Compressor, Perform Preventive Maintenance (PM).	Mechanic, \$40.00 per hour, 2 hours to perform PM, material cost \$75.00 PM	\$80	\$75.00	Mo.	\$155	\$1,860

Example 2 – Use the following example for all Prepriced work \*.

		BOE			UNIT	UNIT PRICE	TOTAL PRICE
CLIN	DESCRIPTION OF SERVICES	RATIONALE	LABOR	MATERIAL			
	Move services – Move 50 people (Quantity is 2)	Service Person, \$40.00 per hour, 4 men, 16 hours	\$1,920.00	\$0	Each	\$1,920.00	\$3,840

\*Number of units is obtained from Section 2, Schedule of Prices for Prepriced Work.



ATTACHMENT 4-5

**SUMMARY OF COST/PRICE  
(BY PRIME AND MAJOR SUBCONTRACTOR)**

Date:  
Quoter:

<u>Cost Element</u>	<u>Phase-In Period</u>	<u>Base Period A</u>	<u>Base Period B</u>	<u>Base Period C</u>	<u>1st Option</u>	<u>2nd Option</u>	<u>Award Term 1</u>	<u>Award Term 2</u>	<u>Award Term 3</u>	<u>Award Term 4</u>	<u>Award Term 5</u>	<u>TOTAL CONTRACT (less phase-in cost)</u>
Total Cost/Price												
Prime												
Subcontractor												

798

Attachment 4-6 Cost/Price Evaluation

Cost/Price Evaluation (Base Year A)	Subtotal	TOTAL PRICE
Total Lump Sum (CLIN 0001) from Spreadsheet 1 *		

\* If the Lump Sum Option is chosen by the Government, the prices for the options will be substituted for prices in the Schedule of Lump Sum Work.

Total PrePriced (CLIN 0002)		
-----------------------------	--	--

Indefinite Delivery, Indefinite Quantity				
FFP LABOR (CORE HOURS)	SKILL	HOURS	UNIT PRICE	TOTAL PRICE
	SERVICE PERSON	522		0
	TRUCK DRIVER HEAVY	208		0
	MATERIAL EXPEDITER	4176		0
	ORDER FILLER	1044		0
	ELECTRONIC TECHNICIAN II	2088		0
	ELECTRONIC TECHNICIAN III	2088		0
	ENGINEERING TECHNICIAN IV	2088		0
	INSTRUMENT MECHANIC	2088		0
	CHAUFFER	208		0
	BUS DRIVER	522		0
	HEAVY EQUIPMENT MECHANIC	208		0
	MECHANIC	208		0
	subtotal			0

FFP LABOR (NONCORE HOURS)	SKILL	HOURS	UNIT PRICE	TOTAL PRICE
	SERVICE PERSON	10		0

Attachment 4-6 Cost/Price Evaluation

TRUCK DRIVER HEAVY	5		0
MATERIAL EXPEDITER	40		0
ORDER FILLER	20		0
ELECTRONIC TECHNICIAN II	40		0
ELECTRONIC TECHNICIAN III	40		0
ENGINEERING TECHNICIAN IV	40		0
INSTRUMENT MECHANIC	40		0
CHAUFFER	10		0
BUS DRIVER	52		0
HEAVY EQUIPMENT MECHANIC	10		0
MECHANIC	10		0
subtotal	317		0

FFP MATERIAL COEFFICIENT FACTOR	\$1,200,000		
---------------------------------	-------------	--	--

T&M LABOR (CORE HOURS)		208	UNIT PRICE	TOTAL PRICE
SERVICE PERSON		5		0
TRUCK DRIVER HEAVY		3		0
MATERIAL EXPEDITER		30		0
ORDER FILLER		20		0
ELECTRONIC TECHNICIAN II		30		0
ELECTRONIC TECHNICIAN III		30		0
ENGINEERING TECHNICIAN IV		30		0
INSTRUMENT MECHANIC		30		0
CHAUFFER		3		0
BUS DRIVER		23		0
HEAVY EQUIPMENT MECHANIC		2		0
MECHANIC		2		0
subtotal				0

T&M LABOR (NON CORE HOURS)		10	UNIT PRICE	TOTAL PRICE
SERVICE PERSON		0.5		0
TRUCK DRIVER HEAVY		0.5		0

Attachment 4-6 Cost/Price Evaluation

MATERIAL EXPEDITER	0.5		0
ORDER FILLER	0.2		0
ELECTRONIC TECHNICIAN II	1.5		0
ELECTRONIC TECHNICIAN III	1		0
ENGINEERING TECHNICIAN IV	1.1		0
INSTRUMENT MECHANIC	1.5		0
CHAUFFER	0.2		0
BUS DRIVER	0.5		0
HEAVY EQUIPMENT MECHANIC	1		0
MECHANIC	1.5		0
subtotal			0
T & M MATERIAL COEFFICIENT			
	\$12,000		
SPECIALTY COEFFICIENT			
	\$580,000		
GRAND TOTAL			0

Attachment 4-6 Cost/Price Evaluation

Cost/Price Evaluation (Base Year B)		TOTAL PRICE
Total Lump Sum (CLIN 0001) From Spreadsheet 2 *		

\* If the Lump Sum Option is chosen by the Government, the prices for the options will be substituted for prices in the Schedule of Lump Sum Work.

Total PrePriced (CLIN 0002)		
-----------------------------	--	--

Indefinite Delivery, Indefinite Quantity				
FFP LABOR (CORE HOURS)	SKILL	HOURS	UNIT PRICE	TOTAL PRICE
	SERVICE PERSON	522		0
	TRUCK DRIVER HEAVY	208		0
	MATERIAL EXPEDITER	4176		0
	ORDER FILLER	1044		0
	ELECTRONIC TECHNICIAN II	2088		0
	ELECTRONIC TECHNICIAN III	2088		0
	ENGINEERING TECHNICIAN IV	2088		0
	INSTRUMENT MECHANIC	2088		0
	CHAUFFER	208		0
	BUS DRIVER	522		0
	HEAVY EQUIPMENT MECHANIC	208		0
	MECHANIC	208		0
	subtotal			0

FFP LABOR (NONCORE HOURS)	SKILL	HOURS	UNIT PRICE	TOTAL PRICE
	SERVICE PERSON	10		0

808

Attachment 4-6 Cost/Price Evaluation

TRUCK DRIVER HEAVY	5		0
MATERIAL EXPEDITER	40		0
ORDER FILLER	20		0
ELECTRONIC TECHNICIAN II	40		0
ELECTRONIC TECHNICIAN III	40		0
ENGINEERING TECHNICIAN IV	40		0
INSTRUMENT MECHANIC	40		0
CHAUFFER	10		0
BUS DRIVER	52		0
HEAVY EQUIPMENT MECHANIC	10		0
MECHANIC	10		0
subtotal	317		0

FFP MATERIAL COEFFICIENT FACTOR	\$1,200,000		
---------------------------------	-------------	--	--

T&M LABOR (CORE HOURS)	208	UNIT PRICE	TOTAL PRICE
SERVICE PERSON	5		0
TRUCK DRIVER HEAVY	3		0
MATERIAL EXPEDITER	30		0
ORDER FILLER	20		0
ELECTRONIC TECHNICIAN II	30		0
ELECTRONIC TECHNICIAN III	30		0
ENGINEERING TECHNICIAN IV	30		0
INSTRUMENT MECHANIC	30		0
CHAUFFER	3		0
BUS DRIVER	23		0
HEAVY EQUIPMENT MECHANIC	2		0
MECHANIC	2		0
subtotal			0

T&M LABOR (NON CORE HOURS)	10	UNIT PRICE	TOTAL PRICE
SERVICE PERSON	0.5		0
TRUCK DRIVER HEAVY	0.5		0
MATERIAL EXPEDITER	0.5		0
ORDER FILLER	0.2		0

Base year B Page 5

Attachment 4-6 Cost/Price Evaluation

ELECTRONIC TECHNICIAN II	1.5		0
ELECTRONIC TECHNICIAN III	1		0
ENGINEERING TECHNICIAN IV	1.1		0
INSTRUMENT MECHANIC	1.5		0
CHAUFFER	0.2		0
BUS DRIVER	0.5		0
HEAVY EQUIPMENT MECHANIC	1		0
MECHANIC	1.5		0
subtotal			0

T & M MATERIAL COEFFICIENT	\$12,000	
----------------------------	----------	--

SPECIALTY COEFFICIENT _____	\$580,000	
-----------------------------	-----------	--

GRAND TOTAL		0
-------------	--	---

804

Attachment 4-6 Cost/Price Evaluation

Cost/Price Evaluation (Base Year C)		TOTAL PRICE
Total Lump Sum (CLIN 0001) From Spreadsheet 3*		

\* If the Lump Sum Option is chosen by the Government, the prices for the options will be substituted for prices in the Schedule of Lump Sum Work.

Total PrePriced (CLIN 0002)		
-----------------------------	--	--

Indefinite Delivery, Indefinite Quantity				
FFP LABOR (CORE HOURS)	SKILL	HOURS	UNIT PRICE	TOTAL PRICE
	SERVICE PERSON	522		0
	TRUCK DRIVER HEAVY	208		0
	MATERIAL EXPEDITER	4176		0
	ORDER FILLER	1044		0
	ELECTRONIC TECHNICIAN II	2088		0
	ELECTRONIC TECHNICIAN III	2088		0
	ENGINEERING TECHNICIAN IV	2088		0
	INSTRUMENT MECHANIC	2088		0
	CHAUFFER	208		0
	BUS DRIVER	522		0
	HEAVY EQUIPMENT MECHANIC	208		0
	MECHANIC	208		0
	subtotal			0

FFP LABOR (NONCORE HOURS)	SKILL	HOURS	UNIT PRICE	TOTAL PRICE
---------------------------	-------	-------	------------	-------------

805

Attachment 4-6 Cost/Price Evaluation

SERVICE PERSON	10		0
TRUCK DRIVER HEAVY	5		0
MATERIAL EXPEDITER	40		0
ORDER FILLER	20		0
ELECTRONIC TECHNICIAN II	40		0
ELECTRONIC TECHNICIAN III	40		0
ENGINEERING TECHNICIAN IV	40		0
INSTRUMENT MECHANIC	40		0
CHAUFFER	10		0
BUS DRIVER	52		0
HEAVY EQUIPMENT MECHANIC	10		0
MECHANIC	10		0
subtotal	317		0

FFP MATERIAL COEFFICIENT FACTOR	\$1,200,000		
---------------------------------	-------------	--	--

T&M LABOR (CORE HOURS)		208	UNIT PRICE	TOTAL PRICE
SERVICE PERSON		5		0
TRUCK DRIVER HEAVY		3		0
MATERIAL EXPEDITER		30		0
ORDER FILLER		20		0
ELECTRONIC TECHNICIAN II		30		0
ELECTRONIC TECHNICIAN III		30		0
ENGINEERING TECHNICIAN IV		30		0
INSTRUMENT MECHANIC		30		0
CHAUFFER		3		0
BUS DRIVER		23		0
HEAVY EQUIPMENT MECHANIC		2		0
MECHANIC		2		0
subtotal				0

T&M LABOR (NON CORE HOURS)		10	UNIT PRICE	TOTAL PRICE
SERVICE PERSON		0.5		0
TRUCK DRIVER HEAVY		0.5		0
MATERIAL EXPEDITER		0.5		0

Attachment 4-6 Cost/Price Evaluation

ORDER FILLER	0.2		0
ELECTRONIC TECHNICIAN II	1.5		0
ELECTRONIC TECHNICIAN III	1		0
ENGINEERING TECHNICIAN IV	1.1		0
INSTRUMENT MECHANIC	1.5		0
CHAUFFER	0.2		0
BUS DRIVER	0.5		0
HEAVY EQUIPMENT MECHANIC	1		0
MECHANIC	1.5		0
subtotal			0
T & M MATERIAL COEFFICIENT			
	\$12,000		
SPECIALTY COEFFICIENT _____			
	\$580,000		
GRAND TOTAL			0

Attachment 4-6 Cost/Price Evaluation

Cost/Price Evaluation (Option Year 1)		TOTAL PRICE
Total Lump Sum (CLIN 0001) From Spreadsheet 4 *		

\* If the Lump Sum Option is chosen by the Government, the prices for the options will be substituted for prices in the Schedule of Lump Sum Work.

Total PrePriced (CLIN 0002)		
-----------------------------	--	--

Indefinite Delivery, Indefinite Quantity				
FFP LABOR (CORE HOURS)	SKILL	HOURS	UNIT PRICE	TOTAL PRICE
	SERVICE PERSON	522		0
	TRUCK DRIVER HEAVY	208		0
	MATERIAL EXPEDITER	4176		0
	ORDER FILLER	1044		0
	ELECTRONIC TECHNICIAN II	2088		0
	ELECTRONIC TECHNICIAN III	2088		0
	ENGINEERING TECHNICIAN IV	2088		0
	INSTRUMENT MECHANIC	2088		0
	CHAUFFER	208		0
	BUS DRIVER	522		0
	HEAVY EQUIPMENT MECHANIC	208		0
	MECHANIC	208		0
	subtotal			0

FFP LABOR (NONCORE HOURS)	SKILL	HOURS	UNIT PRICE	TOTAL PRICE
---------------------------	-------	-------	------------	-------------

Attachment 4-6 Cost/Price Evaluation

SERVICE PERSON	10		0
TRUCK DRIVER HEAVY	5		0
MATERIAL EXPEDITER	40		0
ORDER FILLER	20		0
ELECTRONIC TECHNICIAN II	40		0
ELECTRONIC TECHNICIAN III	40		0
ENGINEERING TECHNICIAN IV	40		0
INSTRUMENT MECHANIC	40		0
CHAUFFER	10		0
BUS DRIVER	52		0
HEAVY EQUIPMENT MECHANIC	10		0
MECHANIC	10		0
subtotal	317		0

FFP MATERIAL COEFFICIENT FACTOR	\$1,200,000	
---------------------------------	-------------	--

T&M LABOR (CORE HOURS)		208	UNIT PRICE	TOTAL PRICE
SERVICE PERSON		5		0
TRUCK DRIVER HEAVY		3		0
MATERIAL EXPEDITER		30		0
ORDER FILLER		20		0
ELECTRONIC TECHNICIAN II		30		0
ELECTRONIC TECHNICIAN III		30		0
ENGINEERING TECHNICIAN IV		30		0
INSTRUMENT MECHANIC		30		0
CHAUFFER		3		0
BUS DRIVER		23		0
HEAVY EQUIPMENT MECHANIC		2		0
MECHANIC		2		0
subtotal				0

T&M LABOR (NON CORE HOURS)		10	UNIT PRICE	TOTAL PRICE
SERVICE PERSON		0.5		0
TRUCK DRIVER HEAVY		0.5		0
MATERIAL EXPEDITER		0.5		0

808

Attachment 4-6 Cost/Price Evaluation

ORDER FILLER	0.2		0
ELECTRONIC TECHNICIAN II	1.5		0
ELECTRONIC TECHNICIAN III	1		0
ENGINEERING TECHNICIAN IV	1.1		0
INSTRUMENT MECHANIC	1.5		0
CHAUFFER	0.2		0
BUS DRIVER	0.5		0
HEAVY EQUIPMENT MECHANIC	1		0
MECHANIC	1.5		0
subtotal			0

T & M MATERIAL COEFFICIENT	\$12,000	
----------------------------	----------	--

SPECIALTY COEFFICIENT _____	\$580,000	
-----------------------------	-----------	--

GRAND TOTAL		0
-------------	--	---

Attachment 4-6 Cost/Price Evaluation

Cost/Price Evaluation (Option Year 2)		TOTAL PRICE
Total Lump Sum (CLIN 0001) From Spreadsheet 5*		

\* If the Lump Sum Option is chosen by the Government, the prices for the options will be substituted for prices in the Schedule of Lump Sum Work.

Total PrePriced (CLIN 0002)		
-----------------------------	--	--

Indefinite Delivery, Indefinite Quantity				
FFP LABOR (CORE HOURS)	SKILL	HOURS	UNIT PRICE	TOTAL PRICE
	SERVICE PERSON	522		0
	TRUCK DRIVER HEAVY	208		0
	MATERIAL EXPEDITER	4176		0
	ORDER FILLER	1044		0
	ELECTRONIC TECHNICIAN II	2088		0
	ELECTRONIC TECHNICIAN III	2088		0
	ENGINEERING TECHNICIAN IV	2088		0
	INSTRUMENT MECHANIC	2088		0
	CHAUFFER	208		0
	BUS DRIVER	522		0
	HEAVY EQUIPMENT MECHANIC	208		0
	MECHANIC	208		0
	subtotal			0

FFP LABOR (NONCORE HOURS)	SKILL	HOURS	UNIT PRICE	TOTAL PRICE
	SERVICE PERSON	10		0

Attachment 4-6 Cost/Price Evaluation

TRUCK DRIVER HEAVY	5		0
MATERIAL EXPEDITER	40		0
ORDER FILLER	20		0
ELECTRONIC TECHNICIAN II	40		0
ELECTRONIC TECHNICIAN III	40		0
ENGINEERING TECHNICIAN IV	40		0
INSTRUMENT MECHANIC	40		0
CHAUFFER	10		0
BUS DRIVER	52		0
HEAVY EQUIPMENT MECHANIC	10		0
MECHANIC	10		0
subtotal	317		0

FFP MATERIAL COEFFICIENT FACTOR	\$1,200,000		
---------------------------------	-------------	--	--

T&M LABOR (CORE HOURS)		208	UNIT PRICE	TOTAL PRICE
SERVICE PERSON		5		0
TRUCK DRIVER HEAVY		3		0
MATERIAL EXPEDITER		30		0
ORDER FILLER		20		0
ELECTRONIC TECHNICIAN II		30		0
ELECTRONIC TECHNICIAN III		30		0
ENGINEERING TECHNICIAN IV		30		0
INSTRUMENT MECHANIC		30		0
CHAUFFER		3		0
BUS DRIVER		23		0
HEAVY EQUIPMENT MECHANIC		2		0
MECHANIC		2		0
subtotal				0

T&M LABOR (NON CORE HOURS)		10	UNIT PRICE	TOTAL PRICE
SERVICE PERSON		0.5		0
TRUCK DRIVER HEAVY		0.5		0
MATERIAL EXPEDITER		0.5		0
ORDER FILLER		0.2		0

Attachment 4-6 Cost/Price Evaluation

ELECTRONIC TECHNICIAN II	1.5		0
ELECTRONIC TECHNICIAN III	1		0
ENGINEERING TECHNICIAN IV	1.1		0
INSTRUMENT MECHANIC	1.5		0
CHAUFFER	0.2		0
BUS DRIVER	0.5		0
HEAVY EQUIPMENT MECHANIC	1		0
MECHANIC	1.5		0
subtotal			0
T & M MATERIAL COEFFICIENT			
	\$12,000		
SPECIALTY COEFFICIENT _____			
	\$580,000		
GRAND TOTAL			0

Attachment 4-6 Cost/Price Evaluation

Cost/Price Evaluation (Award-Term Period 1)		TOTAL PRICE
Total Lump Sum (CLIN 0001) From Spreadsheet 6*		

\* If the Lump Sum Option is chosen by the Government, the prices for the options will be substituted for prices in the Schedule of Lump Sum Work.

Total PrePriced (CLIN 0002)		
-----------------------------	--	--

Indefinite Delivery, Indefinite Quantity				
FFP LABOR (CORE HOURS)	SKILL	HOURS	UNIT PRICE	TOTAL PRICE
	SERVICE PERSON	305		0
	TRUCK DRIVER HEAVY	121		0
	MATERIAL EXPEDITER	2436		0
	ORDER FILLER	609		0
	ELECTRONIC TECHNICIAN II	1218		0
	ELECTRONIC TECHNICIAN III	1218		0
	ENGINEERING TECHNICIAN IV	1218		0
	INSTRUMENT MECHANIC	1218		0
	CHAUFFER	121		0
	BUS DRIVER	304		0
	HEAVY EQUIPMENT MECHANIC	121		0
	MECHANIC	121		0
	subtotal			0

FFP LABOR (NONCORE HOURS)	SKILL	HOURS	UNIT PRICE	TOTAL PRICE
---------------------------	-------	-------	------------	-------------

Attachment 4-6 Cost/Price Evaluation

SERVICE PERSON	6		0
TRUCK DRIVER HEAVY	3		0
MATERIAL EXPEDITER	23		0
ORDER FILLER	12		0
ELECTRONIC TECHNICIAN II	23		0
ELECTRONIC TECHNICIAN III	23		0
ENGINEERING TECHNICIAN IV	23		0
INSTRUMENT MECHANIC	23		0
CHAUFFER	6		0
BUS DRIVER	30		0
HEAVY EQUIPMENT MECHANIC	6		0
MECHANIC	6		0
subtotal	184		0

FFP MATERIAL COEFFICIENT FACTOR	\$700,000		
---------------------------------	-----------	--	--

T&M LABOR (CORE HOURS)		119	UNIT PRICE	TOTAL PRICE
SERVICE PERSON		3		0
TRUCK DRIVER HEAVY		2		0
MATERIAL EXPEDITER		17		0
ORDER FILLER		12		0
ELECTRONIC TECHNICIAN II		17		0
ELECTRONIC TECHNICIAN III		17		0
ENGINEERING TECHNICIAN IV		17		0
INSTRUMENT MECHANIC		17		0
CHAUFFER		2		0
BUS DRIVER		13		0
HEAVY EQUIPMENT MECHANIC		1		0
MECHANIC		1		0
subtotal				0

T&M LABOR (NON CORE HOURS)		5.9	UNIT PRICE	TOTAL PRICE
SERVICE PERSON		0.3		0
TRUCK DRIVER HEAVY		0.3		0
MATERIAL EXPEDITER		0.3		0

815

Attachment 4-6 Cost/Price Evaluation

ORDER FILLER	0.1		0
ELECTRONIC TECHNICIAN II	0.9		0
ELECTRONIC TECHNICIAN III	0.6		0
ENGINEERING TECHNICIAN IV	0.6		0
INSTRUMENT MECHANIC	0.9		0
CHAUFFER	0.1		0
BUS DRIVER	0.3		0
HEAVY EQUIPMENT MECHANIC	0.6		0
MECHANIC	0.9		0
subtotal			0

T & M MATERIAL COEFFICIENT	\$7,000		
----------------------------	---------	--	--

SPECIALTY COEFFICIENT _____	\$338,000		
-----------------------------	-----------	--	--

GRAND TOTAL			0
-------------	--	--	---

Attachment 4-6 Cost/Price Evaluation

Cost/Price Evaluation (Award-Term Period 2)		TOTAL PRICE
Total Lump Sum (CLIN 0001) From Spreadsheet 7*		

\* If the Lump Sum Option is chosen by the Government, the prices for the options will be substituted for prices in the Schedule of Lump Sum Work.

Total PrePriced (CLIN 0002)		
-----------------------------	--	--

Indefinite Delivery, Indefinite Quantity				
FFP LABOR (CORE HOURS)	SKILL	HOURS	UNIT PRICE	TOTAL PRICE
	SERVICE PERSON	305		0
	TRUCK DRIVER HEAVY	121		0
	MATERIAL EXPEDITER	2436		0
	ORDER FILLER	609		0
	ELECTRONIC TECHNICIAN II	1218		0
	ELECTRONIC TECHNICIAN III	1218		0
	ENGINEERING TECHNICIAN IV	1218		0
	INSTRUMENT MECHANIC	1218		0
	CHAUFFER	121		0
	BUS DRIVER	304		0
	HEAVY EQUIPMENT MECHANIC	121		0
	MECHANIC	121		0
	subtotal			0

FFP LABOR (NONCORE HOURS)	SKILL	HOURS	UNIT PRICE	TOTAL PRICE
---------------------------	-------	-------	------------	-------------

award term 2

Attachment 4-6 Cost/Price Evaluation

SERVICE PERSON	6		0
TRUCK DRIVER HEAVY	3		0
MATERIAL EXPEDITER	23		0
ORDER FILLER	12		0
ELECTRONIC TECHNICIAN II	23		0
ELECTRONIC TECHNICIAN III	23		0
ENGINEERING TECHNICIAN IV	23		0
INSTRUMENT MECHANIC	23		0
CHAUFFER	6		0
BUS DRIVER	30		0
HEAVY EQUIPMENT MECHANIC	6		0
MECHANIC	6		0
subtotal	184		0

FFP MATERIAL COEFFICIENT FACTOR	\$700,000		
---------------------------------	-----------	--	--

T&M LABOR (CORE HOURS)		UNIT PRICE	TOTAL PRICE
SERVICE PERSON	3		0
TRUCK DRIVER HEAVY	2		0
MATERIAL EXPEDITER	17		0
ORDER FILLER	12		0
ELECTRONIC TECHNICIAN II	17		0
ELECTRONIC TECHNICIAN III	17		0
ENGINEERING TECHNICIAN IV	17		0
INSTRUMENT MECHANIC	17		0
CHAUFFER	2		0
BUS DRIVER	13		0
HEAVY EQUIPMENT MECHANIC	1		0
MECHANIC	1		0
subtotal	119		0

T&M LABOR (NON CORE HOURS)		UNIT PRICE	TOTAL PRICE
SERVICE PERSON	0.3		0
TRUCK DRIVER HEAVY	0.3		0
MATERIAL EXPEDITER	0.3		0

award term 2

Attachment 4-6 Cost/Price Evaluation

ORDER FILLER	0.1		0
ELECTRONIC TECHNICIAN II	0.9		0
ELECTRONIC TECHNICIAN III	0.6		0
ENGINEERING TECHNICIAN IV	0.6		0
INSTRUMENT MECHANIC	0.9		0
CHAUFFER	0.1		0
BUS DRIVER	0.3		0
HEAVY EQUIPMENT MECHANIC	0.6		0
MECHANIC	0.9		0
subtotal			0
T & M MATERIAL COEFFICIENT		\$7,000	
SPECIALTY COEFFICIENT _____		\$338,000	
GRAND TOTAL			0

Attachment 4-6 Cost/Price Evaluation

Cost/Price Evaluation (Award-Term Period 3)		TOTAL PRICE
Total Lump Sum (CLIN 0001) From Spreadsheet 8*		

\* If the Lump Sum Option is chosen by the Government, the prices for the options will be substituted for prices in the Schedule of Lump Sum Work.

Total PrePriced (CLIN 0002)		
-----------------------------	--	--

Indefinite Delivery, Indefinite Quantity				
FFP LABOR (CORE HOURS)	SKILL	HOURS	UNIT PRICE	TOTAL PRICE
	SERVICE PERSON	305		0
	TRUCK DRIVER HEAVY	121		0
	MATERIAL EXPEDITER	2436		0
	ORDER FILLER	609		0
	ELECTRONIC TECHNICIAN II	1218		0
	ELECTRONIC TECHNICIAN III	1218		0
	ENGINEERING TECHNICIAN IV	1218		0
	INSTRUMENT MECHANIC	1218		0
	CHAUFFER	121		0
	BUS DRIVER	304		0
	HEAVY EQUIPMENT MECHANIC	121		0
	MECHANIC	121		0
	subtotal			0

FFP LABOR (NONCORE HOURS)	SKILL	HOURS	UNIT PRICE	TOTAL PRICE
	SERVICE PERSON	6		0

award term 3

Attachment 4-6 Cost/Price Evaluation

TRUCK DRIVER HEAVY	3		0
MATERIAL EXPEDITER	23		0
ORDER FILLER	12		0
ELECTRONIC TECHNICIAN II	23		0
ELECTRONIC TECHNICIAN III	23		0
ENGINEERING TECHNICIAN IV	23		0
INSTRUMENT MECHANIC	23		0
CHAUFFER	6		0
BUS DRIVER	30		0
HEAVY EQUIPMENT MECHANIC	6		0
MECHANIC	6		0
subtotal	184		0

FFP MATERIAL COEFFICIENT FACTOR	\$700,000		
---------------------------------	-----------	--	--

T&M LABOR (CORE HOURS)		UNIT PRICE	TOTAL PRICE
SERVICE PERSON	3		0
TRUCK DRIVER HEAVY	2		0
MATERIAL EXPEDITER	17		0
ORDER FILLER	12		0
ELECTRONIC TECHNICIAN II	17		0
ELECTRONIC TECHNICIAN III	17		0
ENGINEERING TECHNICIAN IV	17		0
INSTRUMENT MECHANIC	17		0
CHAUFFER	2		0
BUS DRIVER	13		0
HEAVY EQUIPMENT MECHANIC	1		0
MECHANIC	1		0
subtotal	119		0

T&M LABOR (NON CORE HOURS)		UNIT PRICE	TOTAL PRICE
SERVICE PERSON	0.3		0
TRUCK DRIVER HEAVY	0.3		0
MATERIAL EXPEDITER	0.3		0
ORDER FILLER	0.1		0

award term 3

Attachment 4-6 Cost/Price Evaluation

ELECTRONIC TECHNICIAN II	0.9	0
ELECTRONIC TECHNICIAN III	0.6	0
ENGINEERING TECHNICIAN IV	0.6	0
INSTRUMENT MECHANIC	0.9	0
CHAUFFER	0.1	0
BUS DRIVER	0.3	0
HEAVY EQUIPMENT MECHANIC	0.6	0
MECHANIC	0.9	0
subtotal		0
T & M MATERIAL COEFFICIENT		
	\$7,000	
SPECIALTY COEFFICIENT _____		
	\$338,000	
GRAND TOTAL		0

822

Attachment 4-6 Cost/Price Evaluation

Cost/Price Evaluation (Award-Term Period 4)		TOTAL PRICE
Total Lump Sum (CLIN 0001) From Spreadsheet 9*		

\* If the Lump Sum Option is chosen by the Government, the prices for the options will be substituted for prices in the Schedule of Lump Sum Work.

Total PrePriced (CLIN 0002)		
-----------------------------	--	--

Indefinite Delivery, Indefinite Quantity				
FFP LABOR (CORE HOURS)	SKILL	HOURS	UNIT PRICE	TOTAL PRICE
	SERVICE PERSON	305		0
	TRUCK DRIVER HEAVY	121		0
	MATERIAL EXPEDITER	2436		0
	ORDER FILLER	609		0
	ELECTRONIC TECHNICIAN II	1218		0
	ELECTRONIC TECHNICIAN III	1218		0
	ENGINEERING TECHNICIAN IV	1218		0
	INSTRUMENT MECHANIC	1218		0
	CHAUFFER	121		0
	BUS DRIVER	304		0
	HEAVY EQUIPMENT MECHANIC	121		0
	MECHANIC	121		0
	subtotal			0

FFP LABOR (NONCORE HOURS)	SKILL	HOURS	UNIT PRICE	TOTAL PRICE
	SERVICE PERSON	6		0

Attachment 4-6 Cost/Price Evaluation

TRUCK DRIVER HEAVY	3		0
MATERIAL EXPEDITER	23		0
ORDER FILLER	12		0
ELECTRONIC TECHNICIAN II	23		0
ELECTRONIC TECHNICIAN III	23		0
ENGINEERING TECHNICIAN IV	23		0
INSTRUMENT MECHANIC	23		0
CHAUFFER	6		0
BUS DRIVER	30		0
HEAVY EQUIPMENT MECHANIC	6		0
MECHANIC	6		0
subtotal	184		0

FFP MATERIAL COEFFICIENT FACTOR	\$700,000		
---------------------------------	-----------	--	--

T&M LABOR (CORE HOURS)		UNIT PRICE	TOTAL PRICE
SERVICE PERSON	3		0
TRUCK DRIVER HEAVY	2		0
MATERIAL EXPEDITER	17		0
ORDER FILLER	12		0
ELECTRONIC TECHNICIAN II	17		0
ELECTRONIC TECHNICIAN III	17		0
ENGINEERING TECHNICIAN IV	17		0
INSTRUMENT MECHANIC	17		0
CHAUFFER	2		0
BUS DRIVER	13		0
HEAVY EQUIPMENT MECHANIC	1		0
MECHANIC	1		0
subtotal	119		0

T&M LABOR (NON CORE HOURS)		UNIT PRICE	TOTAL PRICE
SERVICE PERSON	5.9		0
TRUCK DRIVER HEAVY	0.3		0
MATERIAL EXPEDITER	0.3		0

Attachment 4-6 Cost/Price Evaluation

ORDER FILLER	0.1		0
ELECTRONIC TECHNICIAN II	0.9		0
ELECTRONIC TECHNICIAN III	0.6		0
ENGINEERING TECHNICIAN IV	0.6		0
INSTRUMENT MECHANIC	0.9		0
CHAUFFER	0.1		0
BUS DRIVER	0.3		0
HEAVY EQUIPMENT MECHANIC	0.6		0
MECHANIC	0.9		0
subtotal			0

T & M MATERIAL COEFFICIENT	\$7,000	
----------------------------	---------	--

SPECIALTY COEFFICIENT _____	\$338,000	
-----------------------------	-----------	--

GRAND TOTAL		0
-------------	--	---

Attachment 4-6 Cost/Price Evaluation

Cost/Price Evaluation (Award Term 5)		TOTAL PRICE
Total Lump Sum (CLIN 0001) From Spreadsheet 10*		

\* If the Lump Sum Option is chosen by the Government, the prices for the options will be substituted for prices in the Schedule of Lump Sum Work.

Total PrePriced (CLIN 0002)		
-----------------------------	--	--

Indefinite Delivery, Indefinite Quantity				
FFP LABOR (CORE HOURS)	SKILL	HOURS	UNIT PRICE	TOTAL PRICE
	SERVICE PERSON	348		0
	TRUCK DRIVER HEAVY	139		0
	MATERIAL EXPEDITER	2784		0
	ORDER FILLER	696		0
	ELECTRONIC TECHNICIAN II	1392		0
	ELECTRONIC TECHNICIAN III	1392		0
	ENGINEERING TECHNICIAN IV	1392		0
	INSTRUMENT MECHANIC	1392		0
	CHAUFFER	139		0
	BUS DRIVER	348		0
	HEAVY EQUIPMENT MECHANIC	139		0
	MECHANIC	139		0
	subtotal			0

FFP LABOR (NONCORE HOURS)	SKILL	HOURS	UNIT PRICE	TOTAL PRICE
---------------------------	-------	-------	------------	-------------

Attachment 4-6 Cost/Price Evaluation

SERVICE PERSON	7		0
TRUCK DRIVER HEAVY	3		0
MATERIAL EXPEDITER	27		0
ORDER FILLER	13		0
ELECTRONIC TECHNICIAN II	27		0
ELECTRONIC TECHNICIAN III	27		0
ENGINEERING TECHNICIAN IV	27		0
INSTRUMENT MECHANIC	27		0
CHAUFFER	6		0
BUS DRIVER	35		0
HEAVY EQUIPMENT MECHANIC	6		0
MECHANIC	6		0
subtotal	211		0

FFP MATERIAL COEFFICIENT FACTOR	\$800,000	
---------------------------------	-----------	--

T&M LABOR (CORE HOURS)		UNIT PRICE	TOTAL PRICE
SERVICE PERSON	3		0
TRUCK DRIVER HEAVY	2		0
MATERIAL EXPEDITER	20		0
ORDER FILLER	13		0
ELECTRONIC TECHNICIAN II	20		0
ELECTRONIC TECHNICIAN III	20		0
ENGINEERING TECHNICIAN IV	20		0
INSTRUMENT MECHANIC	20		0
CHAUFFER	2		0
BUS DRIVER	15		0
HEAVY EQUIPMENT MECHANIC	1		0
MECHANIC	1		0
subtotal	137		0

T&M LABOR (NON CORE HOURS)		UNIT PRICE	TOTAL PRICE
SERVICE PERSON	0.3		0
TRUCK DRIVER HEAVY	0.3		0

827

Attachment 4-6 Cost/Price Evaluation

MATERIAL EXPEDITER	0.3		0
ORDER FILLER	0.1		0
ELECTRONIC TECHNICIAN II	1		0
ELECTRONIC TECHNICIAN III	0.6		0
ENGINEERING TECHNICIAN IV	0.7		0
INSTRUMENT MECHANIC	1		0
CHAUFFER	0.1		0
BUS DRIVER	0.3		0
HEAVY EQUIPMENT MECHANIC	0.6		0
MECHANIC	1		0
subtotal			0

T & M MATERIAL COEFFICIENT	\$8,000	
SPECIALTY COEFFICIENT _____	\$386,000	
GRAND TOTAL		0

Attachment 4-6 Cost/Price Evaluation

Cost/Price Evaluation (Base Year A)	Subtotal	TOTAL PRICE
Total Lump Sum (CLIN 0001) from Spreadsheet 1 *		\$7,000,000

\* If the Lump Sum Option is chosen by the Government, the prices for the options will be substituted for prices in the Schedule of Lump Sum Work.

Total PrePriced (CLIN 0002)		\$2,000,000
-----------------------------	--	-------------

Indefinite Delivery, Indefinite Quantity				
FFP LABOR (CORE HOURS)	SKILL	HOURS	UNIT PRICE	TOTAL PRICE
	SERVICE PERSON	522	\$40	\$20,880
	TRUCK DRIVER HEAVY	208	\$40	\$8,320
	MATERIAL EXPEDITER	4176	\$40	\$167,040
	ORDER FILLER	1044	\$40	\$41,760
	ELECTRONIC TECHNICIAN II	2088	\$40	\$83,520
	ELECTRONIC TECHNICIAN III	2088	\$40	\$83,520
	ENGINEERING TECHNICIAN IV	2088	\$40	\$83,520
	INSTRUMENT MECHANIC	2088	\$40	\$83,520
	CHAUFFER	208	\$40	\$8,320
	BUS DRIVER	522	\$40	\$20,880
	HEAVY EQUIPMENT MECHANIC	208	\$40	\$8,320
	MECHANIC	208	\$40	\$8,320
	subtotal			\$617,920

Attachment 4-6 Cost/Price Evaluation

FFP LABOR (NONCORE HOURS)	SKILL	HOURS	UNIT PRICE	TOTAL PRICE
	SERVICE PERSON	10	\$60	\$600
	TRUCK DRIVER HEAVY	5	\$60	\$300
	MATERIAL EXPEDITER	40	\$60	\$2,400
	ORDER FILLER	20	\$60	\$1,200
	ELECTRONIC TECHNICIAN II	40	\$60	\$2,400
	ELECTRONIC TECHNICIAN III	40	\$60	\$2,400
	ENGINEERING TECHNICIAN IV	40	\$60	\$2,400
	INSTRUMENT MECHANIC	40	\$60	\$2,400
	CHAUFFER	10	\$60	\$600
	BUS DRIVER	52	\$60	\$3,120
	HEAVY EQUIPMENT MECHANIC	10	\$60	\$600
	MECHANIC	10	\$60	\$600
	subtotal	317		\$19,020

FFP MATERIAL COEFFICIENT		
FACTOR 1.2	\$1,200,000	\$1,440,000

T&M LABOR (CORE HOURS)	HOURS	UNIT PRICE	TOTAL PRICE
SERVICE PERSON	5	\$40	\$200
TRUCK DRIVER HEAVY	3	\$40	\$120
MATERIAL EXPEDITER	30	\$40	\$1,200
ORDER FILLER	20	\$40	\$800
ELECTRONIC TECHNICIAN II	30	\$40	\$1,200
ELECTRONIC TECHNICIAN III	30	\$40	\$1,200
ENGINEERING TECHNICIAN IV	30	\$40	\$1,200
INSTRUMENT MECHANIC	30	\$40	\$1,200
CHAUFFER	3	\$40	\$120
BUS DRIVER	23	\$40	\$920
HEAVY EQUIPMENT MECHANIC	2	\$40	\$80
MECHANIC	2	\$40	\$80
subtotal	208		\$8,320

068

example

Attachment 4-6 Cost/Price Evaluation

T&M LABOR (NON CORE HOURS)		10	UNIT PRICE	TOTAL PRICE
	SERVICE PERSON	0.5	\$ 60	\$ 30
	TRUCK DRIVER HEAVY	0.5	\$ 60	\$ 30
	MATERIAL EXPEDITER	0.5	\$ 60	\$ 30
	ORDER FILLER	0.2	\$ 60	\$ 12
	ELECTRONIC TECHNICIAN II	1.5	\$ 60	\$ 90
	ELECTRONIC TECHNICIAN III	1	\$ 60	\$ 60
	ENGINEERING TECHNICIAN IV	1.1	\$ 60	\$ 66
	INSTRUMENT MECHANIC	1.5	\$ 60	\$ 90
	CHAUFFER	0.2	\$ 60	\$ 12
	BUS DRIVER	0.5	\$ 60	\$ 30
	HEAVY EQUIPMENT MECHANIC	1	\$ 60	\$ 60
	MECHANIC	1.5	\$ 60	\$ 90
	subtotal			\$ 600

T & M MATERIAL COEFFICIENT		
1.1	\$12,000	\$13,200

SPECIALTY COEFFICIENT 1.05	\$580,000	\$609,000
----------------------------	-----------	-----------

GRAND TOTAL		\$11,708,060
-------------	--	--------------

The numbers chosen are only round numbers to complete the formulas and illustrate the calculations.

example



**ATTACHMENT 4-7  
IDIQ COEFFICIENTS**

BASE YEAR: A:			
	FFP Material	T&M Material	Specialty Services and Equipment
Coefficient Factor (This is the product of multiplying the subfactors together.)			
	(CLIN 0003.0001)	(CLIN 0003.0002)	(CLIN 0003.0003)

BASE YEAR: B:			
	FFP Material	T&M Material	Specialty Services and Equipment
Coefficient Factor (This is the product of multiplying the subfactors together.)			
	(CLIN 0013.0001)	(CLIN 0013.0002)	(CLIN 0003.0003)

BASE YEAR: C:			
	FFP Material	T&M Material	Specialty Services and Equipment
Coefficient Factor (This is the product of multiplying the subfactors together.)			
	(CLIN 0023.0001)	(CLIN 0023.0002)	(CLIN 0023.0003)

OPTION YEAR: 1:			
	FFP Material	T&M Material	Specialty Services and Equipment
Coefficient Factor (This is the product of multiplying the subfactors together.)			
	(CLIN 00033.0001)	(CLIN 0033.0002)	(CLIN 0033.0003)

OPTION YEAR: 2:			
-----------------	--	--	--

### IDIQ COEFFICIENTS

	FFP Material	T&M Material	Specialty Services and Equipment
Coefficient Factor (This is the product of multiplying the subfactors together.)			
	(CLIN 0043.0001)	(CLIN 0043.0002)	(CLIN 0043.0003)

AWARD-TERM PERIOD 1:			
	FFP Material	T&M Material	Specialty Services and Equipment
Coefficient Factor (This is the product of multiplying the subfactors together.)			
	(CLIN 0053.0001)	(CLIN 0053.0002)	(CLIN 0053.0003)

AWARD-TERM PERIOD 2:			
	FFP Material	T&M Material	Specialty Services and Equipment
Coefficient Factor (This is the product of multiplying the subfactors together.)			
	(CLIN 0063.0001)	(CLIN 0063.0002)	(CLIN 0063.0003)

AWARD-TERM PERIOD 3:			
	FFP Material	T&M Material	Specialty Services and Equipment
Coefficient Factor (This is the product of multiplying the subfactors together.)			
	(CLIN 0073.0001)	(CLIN 0073.0002)	(CLIN 0073.0003)

AWARD-TERM PERIOD 4:			
	FFP Material	T&M Material	Specialty Services and Equipment

### IDIQ COEFFICIENTS

Coefficient Factor (This is the product of multiplying the subfactors together.)			
	(CLIN 0083.0001)	(CLIN 0083.0002)	(CLIN 0083.0003)

AWARD-TERM PERIOD 5:			
	FFP Material	T&M Material	Specialty Services and Equipment
Coefficient Factor (This is the product of multiplying the subfactors together.)			
	(CLIN 0093.0001)	(CLIN 0093.0002)	(CLIN 0093.0003)



## ATTACHMENT 4-8

### SYNOPSIS OF LOGISTICS SERVICES STATEMENT OF WORK (SOW)

The MSFC Logistics Services requirement includes providing the necessary expertise, capabilities, management, equipment, supplies, materials, and personnel (not otherwise provided by the Government) to fulfill the required work. The Logistics Services consists of Environmental Services, Mail Services, Equipment Maintenance and Repair (M&R), Motor Pool Operations, Property Services, Move Services, Disposal Services, and Food Services. The statement of work includes the following: storing, collecting, tracking, inspecting, labeling, transporting, consolidating, packaging, manifesting, reporting and disposing and/or treating of hazardous, controlled, medical, and special waste in a timely manner and training Center personnel; gather data for maintaining a current, accurate, and ongoing electronic inventory database compatible with MSFC systems for hazardous materials and provide Superfund Amendments and Reauthorization Act (SARA) Title III, Tier II Reports and Toxic Release Reports; pollution prevention activities, reporting, training, project implementation, and support for MSFC Pollution Prevention Program; provide National Pollutant Discharge Elimination System (NPDES) and Storm Water Management at MSFC; provide air management support activities; provide for receipt and delivery of all incoming and MSFC internal mail, including express documents and small packages; maintain, in proper operating condition, the Government-owned photographic, research, development, test and evaluation, machine shop (excluding said equipment located in Buildings 4650, 4653, and 4705), portable fire extinguishers, and office equipment (consisting of typewriters, calculators, furniture and miscellaneous equipment) on Center and near-site; provide personnel transportation; maintain, in proper operating condition, the Government-owned Special Purpose Equipment to include compressors, construction equipment, mobile cranes, forklifts, generators, personnel lifts, scooters, welders special purpose vehicles on Center and near-site; facilitate the maintenance of the MSFC GSA fleet to include sedans, pickups, vans, trucks, and tractors; provide Fuel Support Services to include the fuel station operation, and fuel distribution; provide Program critical Hardware (PCH) support for PCH activities to include equipment checkout and operational standby support; offering, acquisition, shipping/receiving, issuing, handling, delivery, packaging/crating for shipment, storage, accountability of supplies, materials, equipment, and program stock (i.e., Flight Hardware), and the operation of a retail supply store; provide the kitting of parts and materials for Flight Hardware activities; provide property management and accountability including tagging of Government-owned equipment, equipment records management in the NEMS, training of equipment custodians, and conducting an annual inventory of MSFC equipment; movement of office furniture, boxes, special event furniture and furnishings, conference room furniture, lab furniture, and other property within a building, building to building and/or warehouse to building, dismounting/remounting of whiteboards, and reconfiguration of systems furniture; removal, transportation, storage, reutilization reporting, transfer, donation and preparation for sale activity of excess personal property; and accumulation collection, and

removal of recyclable metals, and toner cartridges; and serving breakfast and lunch at two (2) cafeterias and one (1) snack bar, and catering special events.

As part of accomplishing the work identified above, the following are examples of plans that will be developed and periodically updated: Personnel Certification and Training Plan, Safety and Health Plan, Management Operating Plan, Information Technology Security Plan, and Quality Control Plan.



**PAST PERFORMANCE FORM LETTER EXAMPLE**

**Logistics Services Procurement RFQ 8-1-1-A4-00155**

**CLIENT AUTHORIZATION LETTER: FORMAT**

*[Date of Letter]*

*[Name and Address of proposed company's customer]*

Attention: *[Name and Designation of Customer's Contract Manager or Appropriate Contact]*

Dear *[Contact Name]*:

We are currently responding to the NASA, Marshall Space Flight Center Request for Quotation for Logistics Services. NASA is requesting that clients of entities responding to their request be identified and their participation in the evaluation process requested. In the event you are contacted for information on work we have performed, you are hereby authorized to respond to those inquiries. Your cooperation with this effort is greatly appreciated. Please direct any questions to *[Name and Phone Number of Company's Point-of-Contact]*.

We have included our work for your agency as a past performance reference. A Past Performance Questionnaire is enclosed. Please complete Sections II and III of the enclosed evaluation and return the signed, completed document to:

NASA/Marshall Space Flight Center  
Attention: Daniel Fuller, PS31-E  
Marshall Space Flight Center, AL 35812

Please forward the completed evaluation to NASA at the above address to ensure it is received prior to 12 noon Central Time on November 18, 2002.

In order to maintain the integrity of this process, please **DO NOT** return the questionnaire to us. Return it to NASA/MSFC at the address listed above.

Sincerely,

*[Name of Signer]*

*[Designation of Signer]*

cc:

NASA/Marshall Space Flight Center  
Attention: Elaine W. Hamner, PS30  
Marshall Space Flight Center, AL 35812

**PAST PERFORMANCE FORM LETTER EXAMPLE**

**Logistics Services Procurement RFQ 8-1-1-A4-00155**

**CLIENT AUTHORIZATION LETTER: FORMAT**

*[Date of Letter]*

*[Name and Address of proposed company's customer]*

Attention: *[Name and Designation of Customer's Contract Manager or Appropriate Contact]*

Dear *[Contact Name]*:

We are currently responding to the NASA, Marshall Space Flight Center Request for Quotation for Logistics Services. NASA is requesting that clients of entities responding to their request be identified and their participation in the evaluation process requested. In the event you are contacted for information on work we have performed, you are hereby authorized to respond to those inquiries. Your cooperation with this effort is greatly appreciated. Please direct any questions to *[Name and Phone Number of Company's Point-of-Contact]*.

We have included our work for your agency as a past performance reference. A Past Performance Questionnaire is enclosed. Please complete Sections II and III of the enclosed evaluation and return the signed, completed document to :

NASA/Marshall Space Flight Center  
Attention: Daniel Fuller, PS31-E  
Marshall Space Flight Center, AL 35812

Please forward the completed evaluation to NASA at the above address to ensure it is received prior to 10 AM Central Time on November 18, 2002.

In order to maintain the integrity of this process, please **DO NOT** return the questionnaire to us. Return it to NASA/MSFC at the address listed above .

Sincerely,

*[Name of Signer]*

*[Designation of Signer]*

cc:

NASA/Marshall Space Flight Center  
Attention: Elaine W. Hamner, PS30  
Marshall Space Flight Center, AL 35812



**PAST PERFORMANCE INTERVIEW/QUESTIONNAIRE FORM**

This evaluation should be completed by the Contracting Officer (CO), Contracting Officer's Representative or Contracting Officer's Technical Representative (COR or COTR), Task Monitor (TM), or other person identified in the contract by the appropriate Contracting Officer with monitoring the contractor's compliance with the requirements of the contract.

***In compliance with the direction in the FAR, the information contained in this evaluation is not subject to view by anyone other than the designated source selection evaluation personnel.***

INSTRUCTIONS, DEFINITIONS, AND RATING GUIDELINES

**Instructions**

This evaluation is to be completed as indicated below. For purposes of these evaluations, the term "project" is intended to mean "contract". This package consists of the following:

<b><u>Section</u></b>	<b><u>Description</u></b>	<b><u>Who completes</u></b>
Section I	Basic contract information	Contractor being evaluated
Section II	Government Evaluator identifying information	Government Evaluator
Section III	Contractor Performance Report	Government Evaluator

Any questions you might have concerning completion of this form should be addressed to Daniel Fuller at (256) 544-5767.

CONTRACTOR PERFORMANCE REPORT

Section I

**To be completed by Contractor requesting evaluation.**

Contract Number:	
Contract Title:	
Contract Prime Contractor:	
Contract Award Date:	
Contract Completion Date (including options):	

Contract Type:	Competitive	Non-Competitive
----------------	-------------	-----------------

**CONTRACTOR PERFORMANCE REPORT**

**SECTION II**

To be completed by Government person performing the evaluation.

COTR, COR, TM, or Other Name:	
COTR, COR, TM, or Other Signature:	
Commercial Phone Number:	
Facsimile Phone Number:	
E-mail address:	
Contractor being evaluated:	
Date:	

During the contract performance being evaluated, this firm was the

- Prime Contractor       Significant Subcontractor  
 Team Member           Other

Does a corporate or ownership relationship exist between the contractor being evaluated and your organization?

Yes  No

If yes, please describe the relationship:

Insert the Standard Industrial Classification (SIC) Code or North American Industrial Classification System (NAICS) Code for the contract: \_\_\_\_\_

**CONTRACTOR PERFORMANCE REPORT****Section III****Definitions and Rating Guidelines**

The Factors/Ratings tables on the next page summarize contractor performance in each of the following rating areas. Each criterion should be assigned a rating, from highest to lowest, of Excellent Plus, Excellent, Good, Fair, Poor, or Unsatisfactory. If a particular criterion is not applicable, it should be rated in the far right column as N/A. However, the evaluator is encouraged to provide comments on any rating to further support a particular rating.

The following definitions and instructions should be used as guidance to aid in evaluating the criteria in the Factors/Ratings tables. Please read the definitions and instructions before rating any criteria to be sure that each criterion is graded in the context of the definitions. Also, please ensure that this assessment is consistent with any other assessments that have been done for the same contractor for the same work, such as for payment of fee purposes, exercise of option, other past performance requests, etc.

<b>Technical Performance</b>	<b>Cost Control</b>	<b>Timeliness of Performance</b>	<b>Management Effectiveness</b>
<ul style="list-style-type: none"> <li>- Compliance with contract requirement</li> <li>- Appropriateness of personnel</li> <li>- Technical excellence</li> <li>- Responsive to technical direction</li> <li>- Effective contractor recommended solutions</li> </ul>	<ul style="list-style-type: none"> <li>- Within budget (over/under target costs)</li> <li>- Current, accurate, and complete cost reporting and billings</li> <li>- Cost efficiencies</li> </ul>	<ul style="list-style-type: none"> <li>- Met interim schedule milestones</li> <li>- End items delivered on time</li> <li>- Contract administrative activities performed timely</li> </ul>	<ul style="list-style-type: none"> <li>- Reliable</li> <li>- Pro-active</li> <li>- Reasonable and cooperative</li> <li>- Flexible</li> <li>- Prompt notification of problems</li> <li>- Effective small and small disadvantaged business subcontracting program</li> <li>- Accuracy of reports</li> </ul>

The four headings above relate to the actual ratings defined on the following pages.

**CONTRACTOR PERFORMANCE REPORT**

## Section III (Cont'd)

<b>Technical Performance</b>	<b>Cost Control</b>	<b>Timeliness of Performance</b>	<b>Management Effectiveness</b>
<b><i>Excellent Plus</i></b>			
The contractor has demonstrated an exceptional performance level in any of the below categories that justifies additional consideration. This rating will be used only in those circumstances when contractor performance clearly exceeds the Excellent performance level.			
<b><i>Excellent</i></b>			
There are no quality problems.	There are no cost issues.	There are no delays.	Responses to inquiries, technical, service, and administrative issues are effective and responsive.
<b><i>Good</i></b>			
Nonconformances or technical issues do not impact achievement of contract requirements.	Cost issues do not impact achievement of contract requirements.	Delays do not impact achievement of contract requirements.	Response to inquiries, technical, service, and administrative issues is usually effective and responsive.
<b><i>Fair</i></b>			
Nonconformances or technical issues require minor Agency resources to ensure achievement of contract requirements.	Cost issues require minor Agency resources to ensure achievement of contract requirements.	Delays require minor Agency resources to ensure achievement of contract requirements.	Response to inquiries, technical, service, and administrative issues is somewhat effective and responsive.
<b><i>Poor</i></b>			
Nonconformances or technical issues require major Agency resources to ensure achievement of contract requirements.	Cost issues require major Agency resources to ensure achievement of contract requirements.	Delays require major Agency resources to ensure achievement of contract requirements.	Response to inquiries, technical, service, and administrative issues is marginally effective and responsive.
<b><i>Unsatisfactory</i></b>			
Nonconformances or technical issues are compromising the achievement of contract requirements, despite use of Agency resources.	Cost issues are compromising performance of contract requirements.	Delays are compromising the achievement of contract requirements, despite the use of Agency resources.	Response to inquiries, technical, service, and administrative issues is not effective and responsive.

**CONTRACTOR PERFORMANCE REPORT**  
Section III (Cont'd)

<u>Item</u>	<u>FACTORS/RATINGS</u>	Excellent Plus	Excellent	Good	Fair	Poor	Unsatisfactory	N/A
		<i>Technical Performance</i>						
1	Overall skill level & technical competence of Contractor personnel?							
2	Ability to identify risk factors and alternatives for alleviating risk?							
3	Ability to identify and solve problems expeditiously?							
4	Ability to determine the root cause of problems?							
5	Ability to conduct a thorough process assessment?							
<i>Cost Control</i>								
6	Ability to accurately estimate and control contract cost (if the contract experienced an overrun, please amplify on the following page)?							
7	Did the Contractor diligently search for and apply cost efficient practices?							
8	Were Contractor's reports and documentation accurate and complete?							
<i>Timeliness of Performance</i>								
9	Completion of major tasks or key project milestones on schedule?							
10	Did the Contractor deliver end items per the Contract schedule?							
11	Were the Contractor's reports and documentation submitted timely?							
<i>Management Effectiveness</i>								
12	Sufficiency of local management authority for effective and efficient contract management?							
13	Was the Contractor able to effectively coordinate, integrate & manage work performed by subcontractors?							
14	Did the Contractor management team show innovation and a proactive approach to problem identification and resolution?							
15	Was the Contractor effective in interfacing with the Government's staff?							
16	Was the documentation produced by the Contractor satisfactory to the users?							
17	Ability to meet Small Business subcontracting goals?							
18	Ability to recruit and maintain qualified personnel?							
19	Responsiveness to changes in technical direction?							
20	To what extent did the Contractor display initiative in meeting requirements?							
21	Attentiveness to overall safety and health?							
22	Control of lost time incident rate?							
<i>Overall Evaluation</i>								
23	How would you rate the Contractor's <i>overall management performance</i> on this contract?							
24	How would you rate the Contractor's <i>overall technical performance</i> on this contract?							
25	Would you use this Contractor again? (If "No", please comment in the Narrative Summary)	Yes		No				

CONTRACTOR PERFORMANCE REPORT  
Section III (Cont'd)

**NARRATIVE SUMMARY** (Use this section to explain additional information not included above)

Item	<u>Comments</u>

**Contractor Performance Report**  
Section III (Cont'd)

Please annotate the frequency of Contractor's performance for the areas of experience listed below. Please annotate "Did not perform" if service experience does not apply.

Areas of Experience	Routinely	Occasionally	Rarely
(1) Implementing and sustaining an automated work progress system to show status of tasks/projects from planning to finalization			
(2) Performing under a Performance-Based Contract			
(3) Compliant with International Organization of Standards (ISO) 9001 Quality Assurance requirements			
(4) Developing, implementing, and sustaining a web-enabled supply ordering system			
(6) Generation and managing warehousing operations			
(7) Operating and maintaining Traffic Management activities			
(8) Operating and maintaining Motor Pool activities			
(9) Operating and maintaining mail services			
(10) Operating and maintaining move services			
(11) Operating and maintaining supply services (procurement, warehousing, kitting, and inventory management)			
(12) Operating and maintaining food services			
(13) Operating and maintaining property disposal services			
(14) Determining need for and implementing performance of preventive, predictive, and programmed maintenance for motor pool equipment (e.g. fork lifts).			
(15) Operating and maintaining maintenance services for motor pool equipment.			
(16) Determining need for and implementing performance of preventive, predictive, and programmed maintenance for RDT&E equipment.			
(17) Operating and maintaining maintenance services for RDT& E equipment.			
(18) Performing property management			
(19) Performing physical inventory			
(20) Operating receiving services			
(21) Operating a self-sustaining supply store			
(22) Operating personnel transport system			
(23) Operating group transport system, e.g. buses			

ATTACHMENT 4-10

(24) Maintaining environmental compliance in the area of Hazardous waste			
(25) Maintaining environmental compliance in the area of Pollution Prevention and Hazardous Material Management			
(26) Maintaining environmental compliance in the area of Spill Response			
(27) Maintaining environmental compliance in the area of Storm Water Management			
(28) Maintaining environmental compliance in the area of Air Management			



Lost Time Incident Rate (LTIR)  
Attachment 4-11

Contract name or number SIC/ NAICS Code for each contract referenced		Year	Year	Year
	Lost Time Incident Rate			
	Number of lost workday cases (Incident or illness)			
	Number of employees			
	Number of hours worked			
	Lost Time Incident Rate (LTIR)			
	Number of lost workday cases (Incident or illness)			
	Number of employees			
	Number of hours worked			
	Lost Time Incident Rate (LTIR)			
	Number of lost workday cases (Incident or illness)			
	Number of employees			
	Number of hours worked			
	Lost Time Incident Rate (LTIR)			
	Number of lost workday cases (Incident or illness)			
	Number of employees			
	Number of hours worked			
	Lost Time Incident Rate (LTIR)			
	Number of lost workday cases (Incident or illness)			
	Number of employees			
	Number of hours worked			
	Lost Time Incident Rate (LTIR)			
	Number of lost workday cases (Incident or illness)			
	Number of employees			
	Number of hours worked			



## SECTION 5 - EVALUATION/EVALUATION FACTORS

### A. General

The proposed procurement will be evaluated in accordance with procedures prescribed by the FAR Subpart 8.4, Federal Supply Schedules.

This procurement will be conducted utilizing Best Value Selection (BVS), which seeks to select a quote based on the best combination of price and qualitative merit (including past performance) of the quotes submitted. BVS evaluation is based on the premise that, if all quotes are of approximately equal qualitative merit, award will be made to the Quoter with the lowest evaluated price. However, the Government will consider awarding to a Quoter with higher qualitative merit if the difference in price is commensurate with added value. Conversely, the Government will consider making award to a Quoter whose quote has lower qualitative merit if the price differential between it and other quotes warrant doing so.

All acceptable Quoters will be evaluated against the specification/statement of work to this solicitation and the evaluation factors listed below. The Government intends to evaluate the quotations and award a delivery order without discussions with Quoters. Therefore, a Quoter should exercise care in fully completing all required volumes and submit its most competitive quotation initially. However, if deemed necessary by the Government, the Government will make a Determination of Finalists, enter into discussions with Finalists, and afford each Finalist an opportunity to revise its quote and then make a selection.

Referenced in Attachment 5 are the U.S. Department of Labor Wage Determination Numbers 1994-2008 revision 17 and 1983-0504 revision 27. Quotations resulting from this solicitation shall comply with these wage determinations.

Food services will be awarded separately to the Alabama Department of Rehabilitative Services (ADRS) pursuant to 34 CFR 395.33(b) if ADRS is determined to be a Finalist.

### B. Evaluation Team (ET)

An ET, appointed by the MSFC Center Director, will evaluate the quotes submitted for this RFQ. Quotation content requirements set forth in this RFQ are designed to provide guidance to the Quoter concerning the type of information that will be used by the ET. Acceptable quotes will be evaluated in accordance with the factors set forth in paragraph D below.

### C. Source Selection Authority/ET Voting Members

Source selection will be made by the MSFC Center Director. Voting Members of the ET are: Dawn Stanley, Farley Davis, Linda Carpenter, Daniel Fuller and Hansel Gill.

**D. Evaluation Factors and Subfactors**

1. The Performance Work Statement/specifications serves as the Government's baseline requirements. The following evaluation factors establish what the Government considers to be essential in a quote. All quotes will be judged against these evaluation factors. Qualitative Merit, including Past Performance, is considered significantly more important than price. Acceptable quotes will be evaluated using the following factors:

- Mission Suitability Factor
- Price Factor
- Past Performance Factor

The three factors, Mission Suitability, Cost/Price, and Past Performance are essentially equal in importance.

A general definition of these factors are:

- i. Mission Suitability Factor. For each Quoter, this indicates the merit or excellence of the work to be performed, including both technical and management subfactors, as well as proposal risk. Mission Suitability contains four subfactors: 1) Management Approach, 2) Technical Approach, 3) Safety, Health, and Environmental, and 4) Small Disadvantaged Business (SDB) Participation.
- ii. Cost/Price Factor. This factor evaluates the reasonableness and realism of proposed prices and price components.
- iii. Past Performance Factor. This indicates the depth and type of experience and the past performance history of Quoters performing services similar in size, content, and complexity to this requirement. The Past Performance Factor is not scored, however an adjectival rating is assigned.

The subfactors to be used in evaluating Mission Suitability and their corresponding weights are listed below:

<u>SUBFACTOR</u>	<u>WEIGHT</u>
a. Management Approach	375
b. Technical Approach	475

c. Safety, Health, and Environmental	100
d. Small Disadvantaged Business (SDB) Participation	50

---

Total Possible Points	1000
-----------------------	------

The numerical weights assigned above are indicative of the relative importance of those evaluation areas. The weights will be utilized by the Source Selection Authority (SSA) only as a guide. The SSA shall use the evaluation factors and subfactors set forth in the solicitation to make the source selection decision. The SSA shall consider the ET findings to determine which of the quotations submitted, in response to the solicitation, would prove most advantageous to the Government, all factors considered.

2. The detailed descriptions of the factors and subfactors are set forth below:

**Volume I - Mission Suitability Factor**

The Mission Suitability Factor assesses the excellence of the Quoter's proposed approach and its ability to accomplish the order requirements. In addition, the Mission Suitability Factor assesses the Quoter's understanding of the requirements of the PWS, the Quoter's plan for satisfying those requirements, and the likelihood that the approach will result in effective and efficient performance.

Risk analysis is a process, which identifies risk areas and the recommended approaches to minimize the impact of those risks on the overall success of the program. This evaluation will consider the thoroughness and excellence of the Quoter's risk assessment as a further indicator of the Quoter's understanding of this requirement. In addition to risk analysis, cost realism, or the lack thereof, will be used in evaluating the Mission Suitability Subfactors as an indicator of the Quoter's understanding of the requirement.

**Each quotation will be evaluated and scored based on the Mission Suitability subfactors set forth below. Note: the alphanumeric paragraph identification within each supporting subfactor shall not be construed as an indication of the order of importance or relative weighting within the individual subfactors as there are no discrete point values attached to any of the alphanumeric identifications; they merely facilitate comparison with the evaluation factors.**

The total weighting for the Mission Suitability Factor shall be 1,000 points. The Quoter's degree of understanding of the requirements will be evaluated and scored based on the following Mission Suitability subfactors:

**SUBFACTOR 1: MANAGEMENT APPROACH**

This subfactor will evaluate the Quoter's proposed management of the services identified in the PWS, from start-up through the life of the order.

**MA1 – Management Approach to Providing All Services**

The Quoter's planned organizational structure will be evaluated, including completeness and appropriateness of organizational structure. The Quoter's management procedures and the managers' functions, authority, reporting structure and access to corporate resources will be evaluated. The evaluation criteria will assess the ability to manage in an efficient and effective manner. The Quoter's Core Values, demonstration of trade-off management between the Core Values, and correlation to MSFC and LSD Core Values will be evaluated.

**MA2 – Planned Subcontracts and Teaming**

The use of subcontractors and teaming arrangements, if proposed, will be evaluated based on their benefits to NASA and the effectiveness of the proposed approach for managing these arrangements to assure that the Government obtains an integrated team. Quoters will also be evaluated on the proposed woman-owned small business, HUBzone small business, veteran owned small business, and historically black colleges and universities and other minority institutions in comparison with the goals stated in Provision 4-3 of Instructions to Quoters, on the methods for achieving the goals (small disadvantaged business will be evaluated as a separate Subfactor under Mission Suitability), and on the types and amount of work proposed to be performed with emphasis on utilization of such entities in high technology efforts.

**MA3 – Phase-In/Phase-Out Approach**

The Quoter's approach to ensure continuity and a smooth transition during phase-in and phase-out periods will be evaluated.

**MA4 – Key Position Descriptions, Rationale, and Personnel Qualifications**

The reasonableness of the Quoter's rationale for designating position(s) as key, the appropriateness and reasonableness of the job description(s), and the suitability of the individual(s) selected as key

will be evaluated. The evaluation will consider the experience (technical and management) of each key person for the position being proposed, the qualifications (education and training) of each key person, as well as the degree of availability and stated commitment, and the past performance for each key person proposed.

#### **MA5 – Staffing**

The Quoter's staffing and recruiting approach will be evaluated for understanding of the skill mix, the levels of expertise and qualifications for positions other than key, and the distribution and effective use of the work force, including staffing levels, necessary to support this requirement. In addition, this element will evaluate the Quoter's approach for cross-training, replacement, and backup for non-key personnel and for attracting and retaining high quality personnel. The Quoter's Total Compensation Plan and personnel policies regarding the ability to attract, motivate, and retain a qualified workforce will also be evaluated.

#### **MA6 – Financial Management Reporting**

The Quoter's approach to financial management reporting will be evaluated for its ability to ensure the integrity of the submitted data.

#### **MA7 - Risk Assessment**

Ability of the Quoter to perform risk assessment, address risk factors and issues, and the approach to managing these risks will be evaluated.

### **SUBFACTOR 2 – TECHNICAL APPROACH**

#### **TA1 – Narrative Demonstration of Understanding Performance-Based PWS Requirements**

The Quoter's overall understanding and approach to meeting each of the PWS requirements will be evaluated. This includes how the Quoter's cost/price quotation is consistent with this approach, as demonstrated by the completeness, overall balance, consistency of all parts of the proposal, realism of Quoter's resources and other associated contractual arrangements.

#### **TA2 – Innovations with Supporting Rationale**

Any proposed innovations, cost effectiveness, low cost planning, and the technical merit of “extras” to the PWS, the expected impact (both positive and negative), and the validity of rationale supporting the proposed change(s) will be evaluated in order to emphasize productivity improvement.

### **TA3 – Retail Store**

The Quoter’s proposed implementation approach for the retail store will be evaluated for its understanding of the organization and operations of the retail store, including the web-enabled ordering system.

### **TA4 – Work Control Systems Operations**

The Quoter’s proposed approach for a Work Control System to process all work will be evaluated based on effectiveness of the proposed workflow process and staffing rationale to support its work process. The Quoter’s proposed approach to operate and maintain the Government furnished work control system will be evaluated.

### **TA5 – Quality Control Approach**

The Quoter’s overall understanding of a performance based PWS including the interrelationship between the proposed Quality Control/Assurance Plan and the Performance Requirements Summary (PRS) will be evaluated. The utilization of the proposed organizational structure and management process in assuring quality control will also be evaluated.

The Quoter’s Quality Control/Assurance Plan will be evaluated for completeness, to include the methods or processes the Quoter will use to ensure quality requirements are being applied to each order element. The Quoter’s overall quality system, implementation of ANSI/ISO/ASQ Q9001: 2000 quality system, continuous quality improvement, employee awareness, qualifications and authority of inspectors, monitoring and control activities, procedures for identifying substandard work, sanctions for substandard work, and use of feedback to improve quality control will be evaluated.

### **TA6 – Reliability Centered Maintenance (RCM) Implementation**

The Quoter’s RCM implementation will be evaluated for proposed methods to attain equipment availability at the lowest life cycle cost while meeting security, safety and health, and environmental

requirements. How FMEA and age exploration will be utilized for maintenance task modification will also be evaluated.

**TA7 – Risk Assessment**

Ability of the Quoter to perform risk assessment, address risk factors and issues, and the approach to managing these risks will be evaluated.

**SUBFACTOR 3 – SAFETY, HEALTH, AND ENVIRONMENTAL**

**SHE1 – Safety and Health**

The Quoter’s draft On-Site Safety and Health Plan in accordance with DRD 988SA-001 will be evaluated. The Quoter’s approach to managing Lost Time Incident Rate (LTIR) will be evaluated. The Quoter’s management and operating approach for providing a safety program to ensure a safe and healthful work environment will be evaluated.

**SHE2 – Risk Assessment**

Ability of the Quoter to perform risk assessment, address risk factors and issues, and the approach to managing these risks will be evaluated.

**SUBFACTOR 4 – SMALL DISADVANTAGED BUSINESS (SDB) PARTICIPATION**

This subfactor will be used to evaluate the Quoter’s approach to ensuring maximum SDB participation in this order. SDB concerns that do not waive the price evaluation adjustment provided for at Section 1 Clause FAR 52.219-23, Notice of Price Evaluation Adjustment for Small Disadvantaged Business Concerns, will receive zero (0) points under this subfactor. The following will be evaluated:

**SDB1 - Participation Goals**

The Quoter’s total target for SDB participation, expressed as a percentage of order value, for both the (a) Contractor, including joint venture partners and team members and (b) all subcontractors will be evaluated.

**SDB2 - Past Participation**

The Quoter's record of past participation of SDB concerns in subcontracts and the type of work subcontracted such as property management, food services, maintenance and repair services, etc., over the past three full years will be evaluated.

**SDB3 - Past Contracting Incentives**

The Quoter's record of incentives earned for Small Disadvantaged Business programs under any Government contracts in the last three years will be evaluated.

**SDB4 - Purchasing Procedures**

The Quoter's description of established or planned procedures for SDB outreach, assistance, counseling, market research, and SDB identification, along with relevant purchasing procedures will be evaluated.

**VOLUME II - COST/PRICE FACTOR**

The proposed cost/prices will be evaluated for reasonableness and realism.

FOR QUOTATION EVALUATION PURPOSES ONLY, the Government will evaluate cost/price components in accordance with the data submitted on Attachment 4-6.

The Government will evaluate offers for award purposes by adding the total price for all option years and award-term periods to the total price for the three-year basic requirement. The Government may determine that a quote is unacceptable if the option prices are significantly unbalanced. Evaluation of options and award-term periods shall not obligate the Government to exercise the option(s) or award the award-term periods.

Price Evaluation Adjustment for Small Disadvantaged Business Concerns will be in accordance with FAR clause 52.219-23, Notice of Price Evaluation Adjustment for Small Disadvantaged Business Concerns.

**VOLUME III - PAST PERFORMANCE FACTOR**

The Quoter's overall corporate past performance, to include the corporate past performance of any proposed subcontractors (as opposed to that of proposed key personnel), on comparable or related procurement/project efforts will be considered. Emphasis will be given to the extent of direct experience and quality of past performance on previous contracts that are highly relevant to the effort defined in this RFQ. The Quoter's safety and health performance will be considered. The Quoter's Lost Time Incident

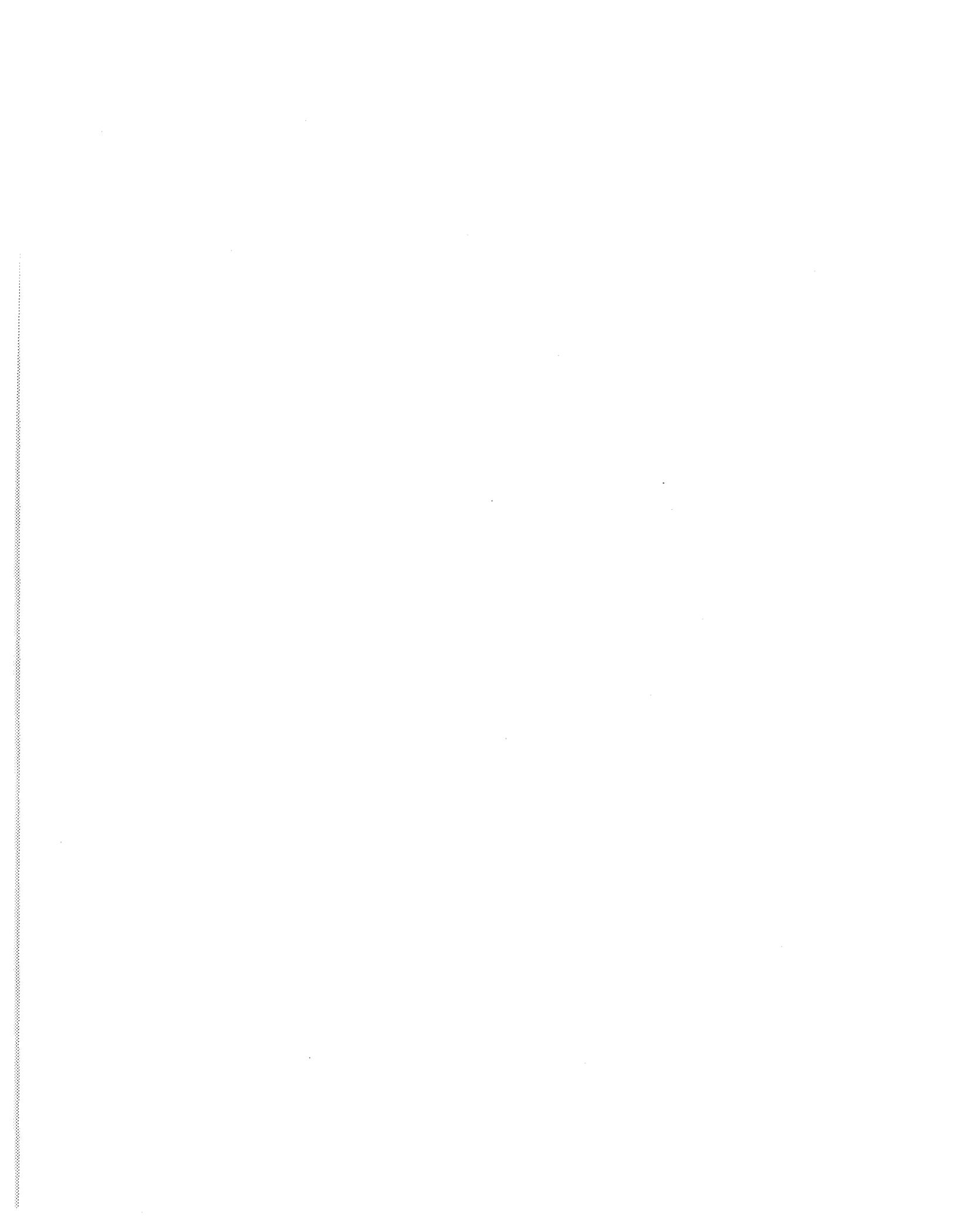
Rate (LTIR) will be compared to the current U.S. Department of Labor LTIR national average for the given Standard Industrial Classification Code (SIC). The LTIR should be equal to or below the LTIR national average. All North American Industrial Classification System (NAICS) will be converted to the equivalent SIC for this comparison. This factor is not numerically scored but is assigned an adjective rating and reported to the Source Selection Authority for consideration in making a selection. Quoters having no relevant past performance will receive a neutral rating of "Good" (i.e., they will not be evaluated favorably nor unfavorably).

(END OF SECTION)

The Request for Quotation with Six Amendments is in Four volumes

**SECTION 6 – HISTORICAL DATA AND BACKGROUND INFORMATION****LIST OF ATTACHMENTS**

<b><u>Attachments</u></b>	<b><u>Title</u></b>	<b><u>Pages</u></b>
6-1	Historical Background	6-1-1 - 6-1-757
6-2	Training Information	6-2-1 - 6-2-2
6-3	MSFC City Chart	6-3-1
6-4	MSFC Map	6-4-1
6-5	Marshall Values	6-5-1
6-6	LSD Values	6-6-1



**ATTACHMENT 6-1 BACKGROUND AND HISTORICAL DATA**

**1.0 Background**

1.1 The current Logistics Services contract is with Cortez III and, is a performance-based, cost reimbursable, incentive fee contract and is scheduled to end September 30, 2002. The contract has been extended for a three (3) month base period plus three (3) one (1) month option periods.

1.2 The incumbent Contractor, Cortez III, employees are represented by:

Communications Workers of America - AFLCIO (CWA) Local 3905  
P.O. Box 2508  
Huntsville, AL 35804  
May P. Layton, Business Manager

International Union of Electronic, Electrical, Salaried, Machine, and Furniture Workers-  
IUE-CWA Local 83783  
P.O. Box 3858  
Huntsville, AL 35810  
Earnest L. Miller, Business Manager

Hotel Employees and Restaurant Employee Union, Local 719  
102 Mossy Springs Trail  
Madison AL 35757  
Vickie Burks, Business Manager

International Union of Operating Engineers, Local 320  
405 Doctor Hicks Boulevard East  
Florence, AL 35630  
David A. Freeze, Business Manager

**1.3 MSFC Normal Tour of Duty**

Normal MSFC duty tours are provided for the quoter's information. Normal duty hours are defined as a 5-day week, Monday through Friday, (excluding legal holidays), 8 (work) hours per day between the hours of 7 a.m. and 5:00 p.m. Quoters will be expected to establish working hours compatible with the organizations to be supported.

**1.3 MSFC Holiday Schedule**

The following holidays are observed by MSFC:

New Year's Day, January 1

Martin Luther King, Jr. Birthday, Third Monday in January

President's Day, Third Monday in February

Memorial Day, Last Monday in May

Independence Day, July 4

Labor Day, First Monday in September  
Columbus Day, Second Monday in October  
Veteran's Day, November 11  
Thanksgiving Day, Fourth Thursday in November  
Christmas Day, December 25

2.0 HISTORICAL DATA

The following sections provide historical information applicable to this effort. The data in this attachment represents the best data available from the Center's records. This data is provided for information and should not be the basis for contractor technical and management approach or prices alone. It is furnished to indicate the types, approximate order of magnitude, and trends in the workload.

It is again emphasized that the information provided is not intended to restrict the quoter in the approach to preparation of a proposal, but is furnished for the sole purpose of providing all quoters a better understanding of the requirements contained in this solicitation.

2.1 General Requirements

A. MSFC Values

1. People

- a. We recognize that the people who work here are "most important" — and are our greatest strength.
- b. We create a safe and healthy environment.
- c. We encourage balance between personal and professional life.
- d. We enable personal and professional growth.
- e. We commit ourselves to the highest standards of integrity and ethical behavior.
- f. We reward and celebrate our accomplishments.
- g. We recognize individual and cultural differences and treat each other with dignity and respect.

2. Customers

- a. We are accountable to our customers and are committed to their satisfaction.
- b. Our customers can depend on us to deliver quality products and services.

3. Excellence

- a. We pursue excellence in our people and in everything we do.
- b. We promote continual learning and improvement.
- c. We hold one another accountable for doing what we commit to do.

4. Teamwork

- a. We are a unified and interdependent team.
- b. We cooperate, communicate openly and share ideas with each other for the common good.
- c. We seek and enable partnerships with other NASA Centers, other agencies, academia, industry and our local and global communities.

5. Innovation

- a. We promote innovation and creativity.
- b. We seek different ideas and perspectives.
- c. We are committed to making a significant difference.
- d. We are willing to accept well-assessed, selected risks in the pursuit of our goals — but never at the expense of safety.

B. Logistics Services Department Values: We endeavor to ensure the proper balance of our four core values.

1. Financial Integrity

- (a) We strive to meet budgetary requirements.

2. Customer

- (a) We treat everyone with respect.
- (b) We respond to inquiries within 24 hours.
- (c) We provide quality products and services to our customers.

3. Internal

- (a) We encourage Innovation for every process and every step therein.
- (b) We practice Customer Management as means to predict and react to our customer needs.
- (c) We strive for Operational Excellence.
- (d) We ensure all operations are safe. Success starts and ends with safety.

4. Learning and Growth

- (a) We promote Knowledge sharing through various mechanisms (including but not limited to conferences, training, working groups and certification) within Logistics Services, MSFC, NASA and the logistics services global community.
- (b) We are Accountable to our customers.
- (c) We promote a Culture of continuous learning and growth.

**2.2 Environmental Services**

A. Hazardous Waste Function

1. Annual Workload for 2000

MSFC is a less than 90-day storage, large quantity generator of hazardous waste.

Work Element	Quantity for Calendar Year (CY) 2000	Unit of Measure	Freq
Containers Issued			
5 gal -DOT Type 1H1	125	each	year
15 gal-DOT Type 1H1	10	each	year
30 gal-DOT Type 1H1	25	each	year
55 gal-DOT Type 1H1	260	each	year
30 gal-DOT Type 1H2	110	each	year
5 gal -DOT Type 1A1	175	each	year
15 gal-DOT Type 1A1	50	each	year
55 gal-DOT Type 1A1	560	each	year
5 gal -DOT Type 1A2	150	each	year
55 gal-DOT Type 1A2	600	each	year
1 Liter HDPE Used for Labpacks	100	each	year
Container Turned in for Pickup	1250	each	year
Empty Container Turned in for Pickup	700	each	year
Inspection of HWSF	60	each	year
Number of manifest tracked	150	each	year
* Centerwide Air Inspection (Significant Sources)	500	each	year
* Centerwide Air Inspections (Insignificant & Trivial)	1000	each	year
** Centerwide Stormwater Inspections	5000	each	year
Containers inspected at Satellite Accumulation Areas	2570	each	year
TSDR Facilities audited	1	each	year
Labpacks Turned in for Pickup	160	each	year
Containers consolidated	700	each	year
Samples Collected (Containers & Tanks)	190	each	year
Hazardous Waste Managed in Bulk Storage Tanks	20,000	gallons	year
Controlled Waste Managed in Bulk Storage Tanks	20,000	gallons	year
Used Oil Managed in Bulk Storage Tanks	15,000	gallons	year
Hazardous and Controlled Waste Generator Training	3	each	year
Preconstruction Conferences Attended (Hazardous Waste and Hazardous Material)	110	each	year
Technical Assistance to Generating Activities	10	each	month
Pollution Prevention options	50	each	year
Chemical Inventory Training	1	each	year
Hazardous Material Storage Area Inspections (new work - estimated)	2500	each	year
Technical Assistance to User (Haz material)	275	each	year

\* Significant and insignificant Air Sources Listing is provided in the Reading Room.

\*\* Stormwater sources are listed in the Consolidated Environmental Response Plan in the Reading Room.

2. Waste Transported and Disposed:

PROFILE#	WASTE DESCRIPTION	WASTE CODES	UNIT TYPE	Quantity Disposed 01 (lbs)	Quantity Disposed 00 (lbs)	Quantity Disposed 99 (lbs)
57B	Waste 1,1,1 Trichloroethane, spent solvent, degreaser, toxic	F001, F002	1A1/55GAL	0	611	0
402	Waste Brake Cleaner	D039, D040	1A2/15 GAL	200	232	245
239	Waste Perchloroethylene, Degreasing Solvent Toxic	F001	1A1/55GAL	2,324	8,094	1,541
247	Waste Trichloroethylene, Spent Degreaser, Solvent, Toxic	F001, F002	1A1/55GAL	1,508	4,376	3,129
150A	Waste Freon 113	F001	1A1/55GAL	0	0	1,001
191	Waste Methylene Chloride Solution	F002	1H1/15GAL	596	299	5,855
90	Waste Acid Solutions, Lab Waste Corrosive, Nitric/Sulfuric Acid	D002, D004, D006, D007, D008, D010	1H1/55 GAL	2,871	838	5,031
90	( LABPACK )Waste Acid Solutions, Lab Waste, Corrosive, Nitric/Hydrofluoric Acid	D002, D004, D006, D007, D008, D009, D010	1A2/5 GAL	274	51	142
266	Waste Acids, Spent Cleaning Solutions, Corrosive, Nitric, Chromic	D002, D007	1H1/55GAL	1,598	1,545	1,974

423	Waste Acid Solutions, Electroplating, Corrosive, Sulfuric, Nitric	D002, D004, D005, D006, D007, D008	1H1/55 GAL	10,467	929	0
484	Waste PCE/NaOH Solution	D002, F001	1H1/55GAL	0	6,252	7,610
511	Waste Paint-Stripper (Basic)	D002	1H1/15GAL	0	82	361
102	Waste Cleaning Solution, Sodium Hydroxide, Corrosive	D002, D006	1H1/55GAL	0	466	391
83B	Waste Alkaline Solutions, Lab Waste, Corrosive, Sodium Hydroxide	D002	1H1/55 GAL	0	327	136
189B	Waste Solutions with Mercury, Lab Waste, Toxic	D009	1H1/5GAL	50	38	41
469	Waste Alkaline Solutions, Electroplating, Corrosive, Sodium Hydroxide	D006, D007, D008, D011	1H1/55GAL	2,392	530	1,083
153	Waste Gasoline, Vehicle Fuel, Flammable	D001	1A1/55GAL	383	168	0
523	Waste Hydrogen Peroxide	D001, D002	1H1/55 GAL	0	0	499
174	Waste Flammable Liquid, Corrosive, Lab Waste Contains Methanol/Chromic acid	D001, D002, D007, D008	1H1/5 GAL	0	45	47
283	Waste Primer Catalyst, Flammable/Corrosive	D001, D002	1H1/15GAL	0	27	0
80A	Waste Aerosol Cans, Flammable	D001	1A2/55 Gal	517	263	129
48	Waste Oil	D039, D040	BULK	0	0	29,307
526	Waste Adhesive Resins, R&D, Ignitable, Styrene	D001	1A1/55GAL			
526	Waste Adhesive Resins, R&D, Ignitable, Styrene	D001	1A1/5GAL			

234A	Waste Paint & General Maintenance, Flammable Solvents	D001, D007, D008, D035, F002, F003, F005	1A1/55GAL	13,763	15,325	23,592
419	Waste Petroleum Distillate/ Parts Washing/Flammable Mineral Spirits	D001, D039, D018	1A2/15GAL	5,191	5,102	7,611
471	Waste Acids/Alcohol Solution, Lab use, Corrosive, Nitric Acid/Alcohols	D001, D002	1H1/ 5 GAL	0	65	91
237	Waste Paint Stripper, Surface Preparations, Corrosive, Toxic	D002	1H1/55GAL	281	163	166
265B	Waste Fixer Solution	D002, D006, D007, D011	1H1/55 GAL	3,991	3,054	12,242
113	Waste Component B Urethane Spray-On-Foam Insulation, contains Lead	D008	1A1/55GAL	1,751	2,840	3,379
542	Waste Battery Plates (lead)	D008	1A2/55 GAL	1,500	0	0
422	Waste Paint-Related Debris	D005, D006, D007, D008, D035, D043, F001, F002, F003, F005	30 CU YD. BOX	68,940	44,700	45,960

	Labpack D-Listed	D001, D002, D003, D004, D005, D006, D007, D008, D009, D010, D011, D018, D039, D040, D043	1H2/5Gal, 1H2/30Gal, 1A2/55Gal	2,439	1,678	2,165
	Labpack (P-Listed)	P003, P012, P015, P029, P030, P077, P098, P105, P120	1A2/55 Gal, 1H2/30 Gal, 1H2/55Gal	7	0	95
359	Waste Mercury Contaminated Debris	D009	1A2/55 GAL	750	1,712	0
	Labpack (U-Listed)	U007, U017, U041, U044, U052, U079, U080, U121, U129, U133, U151, U165, U170, U188, U201, U211, U218, U226, U227, U228	1A2/5Gal, 1H2/30Gal, 1A2/55Gal	10	450	401

243B	Waste Abrasives, Surface Preparations, Toxic, Contains Cadmium & lead	D006, D008	1A2/55GAL	2,602	3,372	3,141
242	Waste Treatment Sludge	F006, D007	1A2 55 Gal	705	538	0
243B	Waste Abrasives, Surface Preparations, Toxic, Contains Cadmium & lead	D006, D008	24 CU YD. BOX	0	0	18,240
486	Waste Water Containing Halogenated Solvents, Vapor Degreasing	D039, D040, D043	1A1/55 GAL	1,819	0	0
486	RCRA Wastewater	D009, D039	BULK	0	0	54,860
17A	Waste Metalworking Coolant Solution	D008	BULK	84,700	104,446	34,760
	Waste Compressed Gas Cylinder	D001	1A2/55 GAL	0	0	0
14A	Medical Waste	N/A	First Container	64	55	60
14A	Medical Waste	N/A	Additional Containers	43	65	75
14A	Medical Waste	N/A	Sharps / Red Bags	9	11	6
17C	Used Metalworking Coolant Solution	N/A	BULK TANKER	0	33,640	35,900
18	Used Antifreeze	N/A	1A1/55GAL	5,259	4,220	4,086
41	Used Light Ballasts (PCB's)	N/A	1A2/55GAL	10,122	9,966	10,377
41A	Used Large Capacitors (PCB's)	N/A	1A2/55GAL	350	139	799
105	Used Urethane Foam (isocyanate component)	N/A	1A1/55GAL	1,718	1,723	2,511
122	Used Nickel Plating Solution	N/A	1H2/55GAL	4,697	1,543	1,131
215	Used Refrigerant Oil	N/A	1A1/55GAL	711	408	2,131
46	Used Detergent Cleaners	N/A	1H1/55GAL	1,869	897	1,765
438	Used Photo-Processing Solution	N/A	1H1/55GAL	IWTF	IWTF	IWTF
19A	Used Dry Cell Batteries	N/A	1H2/30 GAL	466	842	568
207	Spent Nickel-Cadmium Batteries	N/A	1H1/30GAL	0	347	1,019

48A	Used Oil	N/A	BULK TANKER	0	0	0
520	Non-Reg Inorganics	N/A	1A2/55GAL	2,319	2,250	3,932
515	Non-Reg Organics	N/A	1H1/55 GAL	209	9,005	300
	Labpack ( Non-Reg Organics)	N/A	1H2/30Gal, 1A2/55gAL	241	3,386	87
	Labpack (Misc Adhesives)	N/A	4G/1 CU YARD	3,193	2,997	2,649
400	Misc Adhesive Resins	N/A	1A2/5Gal 1A2/55Gal	1,880	9,412	0
400A	Misc Adhesive Hardeners	N/A	1A2/5 Gal 1A2/55Gal	1,071	10,497	2,175
	Labpack ( Non-Reg Inorganics)	N/A	1A2/55GAL	389	1,228	1,107
489	Used Corrosion Inhibitor Solution	N/A	1A1/55GAL	0	1,004	2,785
531	Spent Herbicide, Grounds Maintenance, toxic	N/A	1A1/55GAL	0	695	0
6	Used Carbon Fiber Debris, non-RCRA regulated	N/A	24 CU YD BOX	0	12,989	0
	Soil contaminated with TPH	N/A	24 Cu Yd Box or Dump Trailer	0		01,616 tons

**ATTACHMENT 6-1**

3. Hazardous Waste Storage Facility Description

LOCATION	BAYS	DESCRIPTION	VOLUME/AREA
Bldg 4635-1	Tank Storage Area, Bay 1	Bays curbed and have chemical resistant sealer.	3000 gallon stainless steel AST
	Tank Storage Area, Bay 2	Bays curbed and have chemical resistant sealer.	1500 gallon stainless steel AST
	Tank Storage Area, Bay 3	Bays curbed and have chemical resistant sealer.	1500 gallon stainless steel AST
	Tank Storage Area, Bay 4	Bays curbed and have chemical resistant sealer.	4000 gallon high density polyethylene
	Tank Storage Area, Bay 5	Bays curbed and have chemical resistant sealer.	4000 gall high density polyethylene on
	Tank Storage Area, Bay 6	Bays curbed and have chemical resistant sealer.	10000 gallon and 7000 gallon steel tanks
Bldg 4635-2	Flammable Storage Bldg	Bay curbed and has chemical resistant sealer.	700 SF
Bldg 4635-3	Container Storage Facility Bay 1, 2, 3, 4, 5, and 6	Bays available for segregated container storage. Bays curbed and have chemical resistant sealer.	4200 SF
Bldg 4635-4	Container Storage Facility	Bays available for segregated	2100 SF

**ATTACHMENT 6-1**

	Bay 1, 2, and 3	container storage. Bays curbed and have chemical resistant sealer.	
	Container Storage Facility Bay 4 - Roll off box storage	Bay sloped for drainage to center of bay.	840 SF

## ATTACHMENT 6-1

### B. Hazardous Material Management

#### 1. Workload

The workload includes inputting chemical inventory data sheets, reviewing procurement requests, inspecting to ensure accuracy of data, and provide reporting as required by MSFC and other regulations. The current MSFC Chemical Inventory Database has approximately 11,000 entries and 13,000 material safety data sheets inputted. The chemical inventory covers 202 buildings at MSFC. Work efforts include corresponding with approximately 300 points of contacts (NASA and other contractors), preparing Tier II report, inspecting/correcting information, inspecting storage areas, attending preconstruction conferences, provide point of contact listing, supplying toxic release reporting information, preparing chemical inventory master list, and preparing training materials. Master list of Chemicals is available in Reading Room.

The workload includes evaluating MSFC systems for pollution prevention opportunities at all of MSFC's 202 buildings. The contractor shall develop a Pollution Prevention Plan (in Reading Room) that describes all Pollution Prevention efforts on MSFC.

### C. Spill Response Function

#### Workload for CY 2000

Date	Spill type	Quantity	Efforts
01-05-00	Bldg 4663, B-C Wing Antifreeze leaked from portable generator.	3-5 gal	Material absorbed with clay absorbent & disposed.
01-10-00	Bldg 4612 1500 Wing, Ammonium hydroxide solution, -20% leaked from refrigerant condensate line	< 1 gal	Fluid neutralized with citric acid, absorbed with granular clay, & disposed.
02-08-00	Bldg 4203 Cafeteria. Acidic cleaner leaked from product container onto floor.	< 1 gal	Fluid neutralized with sodium bicarbonate and disposed.
02-08-00	Bldg 4594. RP-1 leaked from collection tank	10-15 gal	Fuel absorbed with oil dry and disposed.

**ATTACHMENT 6-1**

	pipng.		
02-09-00	Bldg 4707 Hydrolazer. Hydraulic fluid leaked from equipment.	-5 gal	Spilled material absorbed with oil dry & spill pads and disposed.
02-15-00	Bldg 4707 SOFI area. Provided support to RSA FD following fire @ SOFI.	~ 250 gal waste water	~ 15 Cubic yd of charred foam transferred from 55 gal dr's to roll-off box. Water vacuumed from fire-suppression area sampled & stored @ HWSF pending lab results.
02-17-00	Bldg 4619 S.side. Hydraulic fluid leaked from construction equipment.	~ 2 gal	Fluid absorbed with granular clay and disposed.
02-18-00	Bldg 4711 Storage area. Metallic mercury spilled while equipment being moved.	Several grams of metallic mercury	Hg-vacuum used to remove material. Air monitoring done by env health office following clean-up.
02-18-00	Bldg 4745. Lube oil leaked from air compressor.	~2-3 gal	Spilled material absorbed with oil dry and disposed.
03-03-00	Bldg 4619 N.side. Gasoline spilled on ground by construction (roofing) contractor	1-2 gal	Contaminated soil removed for disposal.
03-31-00	Bldg 4711, machine shop. During removal of steam line, corrosion prevention material leaked onto shop floor	~ 3 gal	Alkaline material removed for treatment @ IWTF. Bldg 4761.
03-31-00	Bldg 4663, W.side. MSFC boom truck	5-6 gal	Granular clay used to absorb fluid. Solidied material

**ATTACHMENT 6-1**

	leaked hydraulic fluid onto pavement.		disposed.
05-09-00	Bldg 4777, W.side storage yard. Hydraulic fluid leaked from excess property equipment being loaded as scrap metal.	~ 2-3 gal	Clay absorbent & Enretech use to absorb material for disposal.
05-24-00	Bldg 4650, E.side. Provided support to RSA FD responding to gasoline leak from p/u truck.	10 gal	(3) 55 gal drums of contaminated absorbents disposed.
08-23-00	Bldg 4621. Chemical storage bldg. Hydrochloric acid leaked from several (5) gal containers.	~ 10 gal	Acid neutralized with sodium bicarbonate and absorbed with granular clay for disposal.
09-21-00	Bldg 4200, S.side loading dock. Hydraulic fluid leaked from construction equipment.	< 1 gal	Clay absorbent used to remove fluid. Booms placed around nearby storm drain.
10-03-00	Bldg 4481 Rm 263. Test apparatus (furnace) malfunctioned contaminating lab with mercury.	50 mg	Gross contaminants (visible mercury droplets) removed with Hg vacuum. Additional cleaning by others required.

**ATTACHMENT 6-1**

**2.3 Mail Services**

**2.3.1**

<b>Mail Room Activity</b>	<b>FY99</b>	<b>FY 00</b>	<b>FY 01</b>
<b>Internal Mail</b>			
<b>Meter Mail</b>			
Number of Pieces	122,915	124,810	104,055
Number of Pounds	96,906	56,093	56,689
<b>Certified Mail</b>			
Number of Pieces	Not available	Not available	220 Register Mail
Number of Pieces	Not available	Not available	46
<b>Small Package Shipments</b>	2,723	3,151	2,922
<b>Leave and Earning Statements</b>  (Machine fold and USPS Mail and internal MSFC Delivery)	Not applicable.	Not applicable.	72,020
<b>W-2 Forms</b>  (Machine fold and USPS Mail and internal MSFC Delivery)	Not applicable.	Not applicable.	2,770
<b>Daily Planet Deliveries and Placement</b>	Not available.	Not available.	9,000
NOTE: The above pounds and pieces include special mailouts and deliveries. 7, 000 pieces were city directories and 8000 pieces were MSFC directories. Presently there are five mail routes to 38 buildings, with 118 mail stations. Mail stops are subject to change based on moves and customer requirements.			

Current Mail Delivery Stops are as follows: Mail delivery subject to change based on Center and department reorganizations and moves.

**2.4.2**

ATTACHMENT 6-1

BUILDING 4200 MAIL STOPS	
FLOOR	STOPS
1	4
2	3
3	2
4	1
5	1
6	1
7	2
8	3
9	1
10	0
TOTAL	18

BUILDING 4201 MAIL STOPS	
FLOOR	STOPS
B	1
1	1
2	0
3	1
4	1
5	1
6	2
TOTAL	7

BUILDING 4202 MAIL STOPS	
FLOOR	STOPS
B	0
1	0
2	0
3	1
4	2
5	2
6	1
TOTAL	6

BUILDING 4203 MAIL STOPS	
FLOOR	STOPS
1	1
2	1
3	1

**ATTACHMENT 6-1**

4	1
5	1
6	1
<b>TOTAL</b>	<b>6</b>

<b>OTHER BUILDINGS</b>	
<b>BUILDING</b>	<b>STOPS</b>
4249	1
4241	1
4712	3
4711	2
4705	4
4708	4
4487	14
4663	1
4650	1
4484	1
4610	18
4612	2
4619	2
4623	1
4491	1
4723	1
4471	4
4481	5
4493	1
4483	1
4353	1
4315	1
4732	2
4755	1
4566	1
4666	6
4570	1
4583	1
4561	1
4674	1
<b>TOTAL</b>	<b>84</b>

Daily off-site deliveries to NSSTC Intergraph Buildings (3), NASA IFMP Building and the Huntsville Space and Rocket Center.

2.4.3

8  
7  
5

**ATTACHMENT 6-1**

DAILY PLANET DELIVERY LOCATIONS		
BUILDING	FLOOR	LOCATION
4200	BASEMENT, 1 <sup>ST</sup> , 9TH	BY ELEVATORS
4201	FIRST	EAST AND WEST END
4202	FIRST	EAST AND WEST END
4203	FIRST	LOBBY
4250	FIRST	ENTRANCE
4249	FIRST	ENTRANCE & MIDWAY
4610	FIRST	EAST AND WEST END
4612	FIRST	ENTRANCE
4619	FIRST	ENTRANCE
4712	FIRST	ENTRANCE
4711	FIRST	ENTRANCE
4705	FIRST	ENTRANCE
4708	FIRST	ENTRANCE
4487	SECOND	MIDWAY / SOUTH ENTRANCE
4663	FIRST	NORTH AND WEST END
4723	FIRST	ENTRANCE
4471	FIRST	EAST ENTRANCE & SHIPPING/RECEIVING AREA
4481	FIRST	EAST, WEST AND MIDWAY
4666	FIRST	ENTRANCE
	SECOND	MIDWAY
4493,4483,4353,4315,4732,4570,4583,4561,4674	FIRST	ENTRANCE

**2.4 RDT&E Maintenance and Repair**

2.4.1 Workload Historical Data

Historical Data on M&R related to \$1,500 IDIQ Work					
	FY97	FY98	FY99	FY00	FY01
Work Order <\$1500	631	891	787	737	643
Work Order >\$1500	81	58	66	73	73
Total Work Order	712	949	853	810	716
Average IDIQ per year	11%	6%	8%	9%	10%
Assumptions: Labor cost and material cost are included in each work order .					

## ATTACHMENT 6-1

### 2.4.2 RDT&E Listing of Equipment Types

#### A. Printing, Binding and Bookbinding Equipment

The Contractor shall provide maintenance and repair services for printing, binding and bookbinding equipment including but not limited to: Diazo printers; Addressograph machines; Graphotype machines; Headliners; Offset duplicators; Print folders; Blueprint machines; Blueprint folders; Offset presses; Aperture card duplicators; Paper cutters; Paper drills; Stitchers; Sealing machines; and Microfiche duplicators.

#### B. Photographic Equipment

The Contractor shall provide maintenance and repair services for photographic equipment including but not limited to: Overhead projectors; Slide projectors; Reader printers; Motion picture projectors; Film processors; X-ray processors; Enlargers/Timers; Print Dryers; Chemical Mixers; Film Cleaners; Film Editing Machines; Motion Picture Cameras; Still Picture Cameras (including digital cameras); Camera Power Supplies, and Camera Strobes and Lighting Equipment.

#### C. Office Equipment and Furniture

The Contractor shall provide maintenance and repair services for office equipment including but not limited to: Rotary Files; Automatic Labelers; Electric and Electronic Calculators; Cash Registers; Signature Equipment; Lettering Machines and Furniture items such as those shown in the MSFC Approved Furniture Listing below.

#### D. Sound Recording and Reproducing Equipment

The Contractor shall provide) maintenance and repair services for sound recording and reproducing equipment including but not limited to: Audio Tape Recorders; Digital Audio Recorders; Wideband Recorders; FM Calibration Sets; Tape Degaussers; Amplifiers; Acoustic Horns; Monitors, Mixers; Audio Signal Processing Equipment; Speakers; Microphones; Patch Bays; Audio Cables; and Portable Sound Equipment.

#### E. Video Recording and Reproducing Equipment

The Contractor shall provide maintenance and repair services for video recording and reproducing equipment including but not limited to: Video Recorders; Cameras and Reproducers; Video and Television Monitors; RF Sets; and Video Production Equipment.

## ATTACHMENT 6-1

### F. Meteorological Equipment

The Contractor shall provide maintenance and repair services for meteorological equipment including but not limited to: Wind Recorders; Detectors and Translators; Barometers; Manometers; Controllers; Control Recorders; and Monitors.

### G. Chemical Analysis Instruments

The Contractor shall provide maintenance and repair services for chemical analysis instruments including but not limited to: Gas Chromatographs; Mass Spectrometers; Atomic Absorption Units; Liquid Chromatographs; Vapor Phase Absorption Osmometers; Infrared Spectrophotometers; X-Ray Diffractometers; Precision Balances; pH Meters; Vacuum Ovens; Incubators; Samplers; Concentrators; Centrifuges; Photometers; Analytical Balances; Temperature Controllers; Data Stations; X-Y Recorders; Thermo-Analysis Systems; Plotters; Furnaces; Elemental Analyzers; Strip Chart Recorders; Roughing Pumps; Intracoolers; Integrators; and Integral System Components for Chemical Analysis Instruments such as Monitors; CPU's; Printers, Tape Drives, Controllers and Peripherals.

### H. Physical Properties Testing Equipment

The Contractor shall provide maintenance and repair services for physical properties testing equipment including but not limited to: Chromatographs; X-Ray Detectors and Bombardment Systems; Scanning Electron and Electron Microscopes, Optical Microscopes; Tensile and Shear Testing Equipment; Spectrum Analyzers; Vacuum Pumps; Diffusion Pumps; Amplifiers; Shock Tables; Shaker Tables; Structural, Spectral, and Dynamic Analyzers; Filter Networks; Signal Processors; Crystal and Digital Oscillators; Data Stations; Plotters; Printers; CRTs; Strip Chart Recorders; Integrators; CPUs; Load Cells; Communication Interfaces; I/O Devices; and associated Integral System Components.

### I. Environmental Chambers and Related Equipment

The Contractor shall provide maintenance and repair services for environmental chambers and related equipment including but not limited to: Autoclaves; Thermotron Shock Test Chambers; Temperature Controllers; Filters; Amplifiers; Power Supplies; and Vacuum Pumps.

### J. Electrical and Electronic Properties Measuring and Testing Instruments

The Contractor shall provide maintenance and repair services for electrical and electronic properties measuring and testing instruments including but not limited to: Oscilloscopes; Voltmeters; Ammeters; Hi-pass/Lo-pass Filters; Oscillators; RF Generators; Signal Generators; Amplifiers; Power Supplies; Frequency Counters; and Uninterruptible Power Supplies.

### K. Water Purification Equipment

## ATTACHMENT 6-1

The Contractor shall provide maintenance and repair services for water purification equipment including but not limited to: Deionized Water Systems; Tanks; Deionizers; and Filters.

### L. Specialized Semiconductor Microcircuit and Printed Circuit Board Manufacturing Equipment

The Contractor shall provide maintenance and repair services for specialized semiconductor microcircuit and printed circuit board manufacturing equipment including but not limited to: Gerber Photoplotters Systems; Photoheads; Tape Drives; Magnetic Tape Transports; Displays; Digitizers; Artwork Generators; Graphics Displays; Printers; Power Supplies; and Controllers.

### M. Biomedical and Surgical Equipment

The Contractor shall provide maintenance and repair services for biomedical and surgical equipment including but not limited to: EKG Recorders; Stress Test Equipment; Spirometers; Defibrillators; Respirators; Physiological Monitors; X-Ray Developers; X-Ray Generators; Sterilizers; and Audiometers.

### N. Special Industry Machinery

The Contractor shall provide maintenance and repair services for special industry machinery including but not limited to: Industrial Robots use for welding, painting, stripping paint, non-destructive evaluation, etc.; Filament Winding Machines for developing rocket and engine casing materials; CNC Controllers; Positioners and Tables for use with Industrial Welding Robots; and other Industrial Machinery used for RDT&E.

### O. Metal Finishing Equipment

The Contractor shall provide maintenance and repair services for metal finishing equipment including but not limited to: Plasma Coating Equipment; I/O Racks; Power Supplies; Motion Controls; Exhaust Valves; Coating Chambers; Powder Feeders; Mechanical and Vacuum Pumps and Chambers; Gauges; Computer Processors; Temperature Controllers; Displays; and CNC Controllers and Remote Units.

### P. Other Research, Development, Test, and Evaluation (RDT&E) Equipment

The Contractor shall provide maintenance and repair services for RDT&E equipment including but not limited to: Cryogenics Systems, Rapid Prototype Systems and Equipment; MSFC Prototype Test and Process Development Systems; CNC Machine Equipment; Data Acquisition Systems; Laboratory Peripherals; and other related MSFC RDT&E Equipment not specifically mentioned elsewhere in this document.

### Q. Portable Fire Extinguishers

### ATTACHMENT 6-1

The Contractor shall provide maintenance and repair services for all MSFC-Owned portable fire extinguishers. Fire extinguishers shall be maintained to applicable NFPA, OSHA, and NASA Standards and Regulations.

#### R. Physical Exercise Equipment

The Contractor shall provide maintenance and repair services for all MSFC-Owned physical exercise equipment including but not limited to: stairclimber, treadmill, ski machine and multi purpose hydrolic. A representative list of physical exercise equipment is included in this section.

<b>ECN Model</b>	<b>Description</b>	<b>Manufacturer</b>
63804 none	Lat Pullover	Nautilus
186442 none	multi purpose hydrolic	Hydra Fitness
927098 none	Indoor Rower	Concept II
927151 3000 LS	Stairclimber	Lifestep
927163 4000 PT	Stairclimber	Stairmaster
927175 lifecycle9500r	Recumbant Cycle	Lifefitness
927176 lifecycle9500r	Recumbant Cycle	Lifefitness
927177 4000 PT	Stairclimber	Stairmaster
1017396 none	Treadmill	Trackmaster
1017397 none	Treadmill	Trackmaster
1080647 none	Treadmill	Trackmaster
1080648 none	Treadmill	Trackmaster
1150665 4000 PT	Stairclimber	Stairmaster
1288435 900	ski machine	Nordic Track
1288436 900	ski machine	Nordic Track
1439479 2000 AT	Gravitron	Stairmaster
1537657 none	Cybox Row	Cybox
1727884 60051	Cross over Cable	Universal
1727886 none	Recumbant Cycle	Universal
1727954 none	Rotary Calf	Cybox
1727955 none	Internal/External Rot.	Cybox
1935490 817E	Stationary Cycle	Monark
1935491 1650 LE	Crossrobics	Stairmaster
1935492 none	Indoor Rower	Concept II
1935494 none	Hack Squat	Cybox
1962023 2000 AT	Gravitron	Stairmaster
1962024 EFX544	Elliptical Trainer	Precor

**ATTACHMENT 6-1**

1965611 Clubtrack 510	Treadmill	Quinton
1965612 Clubtrack 510	Treadmill	Quinton
1965613 Clubtrack 510	Treadmill	Quinton
1965614 Clubtrack 510	Treadmill	Quinton
2014510 420	Tricep Press	Body Masters
2014543 MD 122	Super Leg Press	Body Masters
2014575 CX 118	Seated Leg Curl	Body Masters
2014576 LE408A	Inverted Leg Press	Body Masters
2015375 Clubtrack 510	Treadmill	Quinton
2015376 Clubtrack 510	Treadmill	Quinton
2015377 EFX544	Elliptical Trainer	Precor
2015378 EFX544	Elliptical Trainer	Precor
2015379 S 119	Glute Trainer	Body Masters
2015380 MD 110A	Leg Extension	Body Masters
2015381 MD 310 A	Vertical Chest Press	Body Masters
2015382 MD 504	Seated Pec/Rear delt	Body Masters
2015383 CM 222	Bicep Curl	Body Masters
2015384 CM 320	Abdominal Curl	Body Masters
2015385 CM 280	Shoulder Press	Body Masters
2015386 CM 242	Low Row	Body Masters
2015387 CM 240	Lat Pulldown	Body Masters
2015549 stratus 3900rc	Recumbant Cycle	Stairmaster
2015550 stratus 3900rc	Recumbant Cycle	Stairmaster
2015552 TRS4000	arm/leg resisitance	Nustep
2015553 7000 PT	Stepmill	Stairmaster
2017823 4600 CL	Stairclimber	Stairmaster
2017824 4600 CL	Stairclimber	Stairmaster
2017825 4600 CL	Stairclimber	Stairmaster
2017827 Lin Seated Leg Curl	Seated Leg Curl	Stairmaster
2017828 Lin Leg Extension	Leg Extension	Stairmaster
2017829 Leg Press	Seated Leg Press	Stairmaster
2017830 Arc Shoulder Press	Seated Shoulder Press	Stairmaster
2017831 Arc Row Machine	Seated Row	Stairmaster
2017832 Arc Lat Pulldown	Lat Pulldown	Stairmaster
2017833 Lin Fly/Rear Deltiod	Pec Fly/Rear Deltiod	Stairmaster
2017834 Arc Chest Press	Seated Chest Press	Stairmaster
2017836 Club Track 510	Treadmill	Quinton

**ATTACHMENT 6-1**

2017837 Club Track 510	Treadmill	Quinton
2017838 Club Track 510	Treadmill	Quinton
2017839 Club Track 510	Treadmill	Quinton
2017840 Club Track 510	Treadmill	Quinton
2017843 Triceps Extension	Triceps Extension	Life Fitness
2017844 Free Runner 5600	Olliptical Runner	Stairmaster
2017845 Free Runner 5600	Olliptical Runner	Stairmaster
2017846 Free Runner 5600	Olliptical Runner	Stairmaster
G84813 none	Versa Climber	Heart Rate Inc.

**S. Machine Shop Equipment**

The Contractor shall provide maintenance and repair services for all MSFC-owned machine shop equipment including, but not limited to lathes, drill presses, milling machines, saws, jointers, grinders, polishers, presses, welders, breaks, shears and other related equipment not specifically mentioned in this document, except for equipment located in buildings 4650, 4653 and 4705 (which are maintained under another contract). A representative list of machine shop equipment is included in this section. The list shows the general scope of equipment, however, specific items change from time-to-time. The contractor shall be responsible for all machine shop equipment unless specifically excluded from this document.

ECN	Item Description/Year	Mfg. Name/Model	Location
1937504	Lathe, Gap-Bed, 1998	Enco, 111-3115	4194/12
1958481	Saw, Band, Metal Cutting, 1998	Lincoln, KB30	4194/12
1282660	Key Duplicating Machine, 1992	Ilco Unican CP, KD50A	4312/114
0541349	Shaper Hertz, 1951	Rockford Machine Tool Co., 206ES14	4348/M1
0624892	Saw, Band, 1970	Doall Co., 3613-0	4471/190
0624889	Lathe, Engine, 1953	Monarch Machine Tool Co., 60	4471/191
0630925	Lathe, Engine, 1954	Monarch Machine Tool Co., EE	4471/191
186339	Lathe, Metal, 13"	TurnMaster	4471/191
630925	Lathe, Metal, 10"	Monarch	4471/191
624889	Lathe, Metal, 13"	Monarch	4471/191
Xxxxx	Lathe, Metal, 8"	Southbend	4471/191
624895	Mill, Horizontal	Hardinge	4471/191
732554	Mill, Vertical	Hurco	4471/191

## ATTACHMENT 6-1

732553	Mill, Vertical	Hurco	4471/191
Xxxxx	Drill Press - table model	xxxxx	4471/191
Xxxxx	Drill Press - table model	xxxxx	4471/191
Xxxxx	Drill Press	Powermatic	4471/191
624879	Planer, 13"	Rockwell	4471/196
175604	Jointer	Powermatic	4471/196
Xxxxx	Table Saw	Powermatic	4471/196
624892	Band Saw	Do All	4471/196
Xxxxx	Drill Press	Delta	4471/196
Xxxxx	Saw, Radial Arm	xxxxx	4471/196
Xxxxx	Shaper	Rockwell	4471/196
Xxxxx	Grinding Machine	Black & Decker Inc., DA	4472/9
1288410	Saw, Band, Metal Cutting	Vega Interprises Inc., 400	4472/4
1401288	Drill Press, 1994	Powermatic Houdaille, 1150A	4475/101
1535061	Lathe, Engine, 1995	MSC Industrial Supply, 14-40G	4475/101
1538009	Saw, Band, Metal Cutting, 1995	Powermatic Houdaille, 87	4475/134
1935661	Drill Press, 1997	Powermatic Houdaille, 1200	4475/134
0542280	Saw, Band, 1965	Doall, Co., 1612-0	4476/113D
0440790	Saw, Metal Cutting, Precision, 1983	Buehler, Ltd., 11-1180	4481/215
0539943	Saw, Metal Cutting, 1946	Doall, Co., ML	4481/267
0630482	Lathe, Engine, 1964	Creed Monarch, Inc., EE	4481/267
0677440	Lathe, Engine, 1964	Monarch Machine Tool Co., EE	4481/267
139490	Grinder, Tool Post, 1993	Dumore Co., 8526-210	4481/167
1083358	Grinding/Polishing Machine, 1991	Struers, Inc., DAPLU	4481/306
1225309	Drilling Machine, 1991	Servo Corp. of America, 7000	4481/318F
0625757	Saw, Dual Purpose, 1972	Image Systems, Inc., 4403	4481/329
1935741	Cutoff Machine, Precision, 1997	Struers, Inc., ACCUTOM5	4481/329
1935742	Grinding/Polishing Machine, 1997	Struers, Inc., ROTOPOL31	4481/329
1935743	Grinding/Polishing Machine, 1997	Struers, Inc., LAP21	4481/329
1935744	Grinding/Polishing Machine, 1997	Struers, Inc., ROTOFORCE4	4481/329
627159	Cutoff Machine, Abrasive Disk, 1980	Pistorius Machine Co., C	4481/329A
1269525	Lapping Machine, Metalworking, '91	Logitech UK, 1PMA2	4481/329A
1281664	Saw, Wire, 1987	Laser Technology, Inc., 2008	4481/329A
1401579	Saw, Circular, Table Type, 1994	Wales Beech Corp., 1140	4481/329A

**ATTACHMENT 6-1**

1936279	Saw, Dicing, 1997	Ultra Tec, 6000	4481/329A
1962545	Saw, Metal Cutting, Precision, 1998	Buehler, Ltd., ISOMET2000	4481/401
0264932	Polisher/Grinder, 1986	Extrel Corp., 49-1650	4481/404
0289375	Saw, Crystal Cutting, 1985	South Bay Technology, Inc., 650	4481/404
0629290	Polishing Machine, 1971	Buehler, Ltd., 48-1512	4481/405
1937495	Polisher/Grinder, 1998	Eberbach Corp., 3010	4481/428
1937496	Polisher/Grinder, 1998	Eberbach Corp., 3010	4481/428
0627187	Drilling Machine, Floor Mount, 1957	Clausing Corp., 1800	4481/500
0628311	Saw, Band, Metal Cutting, 1964	Doall, Co., 1612-1	4481/500
0631365	Lathe, Engine, 1962	Monarch Machine Tool Co., EE	4481/500
1937249	Lathe, Engine, 1958	Monarch Machine Tool Co., EE	4481/500
G82957	Milling Machine	Bridgeport	4481/267
630644	Rotary Head Mill	Kearney & Trecker, #2	4481/267
Xxxxx	Drill Press	Rockwell, 65-000	4481/267
Xxxxx	Cutoff Saw	Johnson, Model B	4481/267
Xxxxx	Drill Press	Walker-Turner Co., DDP500	4481/230
Xxxxx	Drill Press	Hamilton, S/N 5423	4481/502
Xxxxx	Micro Lathe	Unimat-SL, db200	4481/404
1958571	Hydraulic Press	Sim Aminco, 3000PSI french	4481/103
Xxxxx	Drill Press	Boice-Crane, 1650	4481/371C
0624582	Saw, Band, 1970	Armstrong-Blum Mfg. Co., 8M8	4482/Shop
G032069	Puller, 30T Bench Type, 1963	Owatonna Tool Co., None	4483/Shop
0678958	Press, Bench Type, 1963	Owatonna Tool Co., 5K48PC33	4483/Shop
0537066	Saw, Band, Metal Cutting, 1945	Doall Co., ML	4487/AB103
0627185	Saw, Band, 1961	Delta Engineering Corp., 28-365	4487/AB202
0729448	Saw, Band, Metal Cutting, 1960	Doall Co., 1612U	4487/A100A
0287644	Slide Mechanism, 1985	Velmex, Inc., ZB9090P10J	4487/BC143
0537636	File Polish Grinding Machine, 1966	Doall Co., HSW-50	4487/B100
0537641	Lathe, Sensitive Toolmakers, 1964	Monarch Machine Tool Co., EE	4487/B100
1894920	Lathe, Engine, 1996	Kestrel Machine Tools, CNC2040	4487/B100
G083617	Grinder, Surface, 1989	Chevalier Systems, 2A818	4487/B101
0537644	Grinding Machine, 1966	Strasbaugh Howard Inc., 7DR	4487/B101
0858193	Saw, Diamond, Cutoff, 1988	Strasbaugh Howard Inc., 10H	4487/B101
1082794	Grinding Machine Belt, Vert., 1990	Strasbaugh Howard Inc., 6X	4487/B101
1272371	Grinding Machine, Surface, Rot. '52	Cone-Blanchard, 18	4487/B101

**ATTACHMENT 6-1**

1536433	Polishing Machine, 1995	Ultra Tec, 5-1202-1	4487/B101
1726257	Saw, Band, Cutoff, 1996	Logitech UK, 15	4487/B101
1533521	Lathe, Precision, 1994	Precitech, Inc., OP4200	4487/B101B
1401102	Buffing/Polishing Machine, 1993	Hoffman PR Materials, 66T	4487/B102C
1401103	Buffing/Polishing Machine, 1993	Hoffman PR Materials, 66T	4487/B102C
0537642	Lathe, Bench Type, 1965	Lorch Electronics Corp., None	4487/B130B
1527806	Saw, Circular Blade, Metal Cut., '95	Buehler Ltd., 11-2180	4487/B140A
1222813	Grinding Machine, Chucking, 1992	Haake Buchler Instruments, None	4487/B161
0538096	Lathe/Milling Machine, 1971	American Edelstaal, V10	4487/C155
1932034	Positioner, Micro, 1998	Ultra Tec, 1610	4487/C170
0538087	Polishing Machine, 1963	Buehler Ltd., 7	4487/C176A
1962033	Saw, Cutoff, 1998	Ultra Tec, 2000	4487/C185
1962050	Positioner, Micro, 1998	Ultra Tec, 1610	4487/C185
1962051	Positioner, Micro, 1998	Ultra Tec, 1610	4487/C185
1083209	Saw, Band, Metal Cutting, 1991	Power-Matic, Inc., 143	4487/C244
1083391	Drill Press, 1991	Powermatic Houdaille, Inc., 1150A	4487/C244
1286698	Drilling Machine, Upright, 1993	Milwaukee Electric Tool, 4233-1	4487/W101
1536434	Polishing Machine, 1995	Ultra Tec, 5-1202-1	4487/W107
1536435	Polishing Machine, 1995	Ultra Tec, 5-1202-1	4487/W107
1962141	Saw, Band, Vertical, 1998	Armstrong-Blum Mfg. Co., 8MARKII	4493/151
0546828	Lathe, Engine, 1953	Monarch Machine Tool Co., EE	4493/151
630367	Saw, Band, Metal Cutting, 1951	Doall Co., V26	4493/151
0630686	Boring Machine, Jig, Vertical, '64	Moore Special Tool Co., 3	4493/151
0630778	Lathe, Engine, 1968	Monarch Machine Tool Co., EE	4493/151
1935613	Shearing Machine, Sheet Metal, '97	Uni-Hydro Inc., 1/4-1/2	4493/151
0630992	Milling Machine	Bridgeport, 12BR2J36	4493/151
1896420	Milling Machine	Bridgeport, Series II	4493/151
1936471	Welding Machine, Arc	Miller Electric, 351	4493/151
0621547	Flaring Machine	Tulip Corp., B	4493/151
Xxxxx	Sander (Belt & Disc)	Delta, 31-730F	4493/151
Xxxxx	Sander (Drum)	State, B4	4493/151
Xxxxx	Flaring Machine	Tulip Corp., B	4493/151
0630018	Lathe, Precision, 1964	Standard Machine & Tool, MQ3100	4524/Outsi
0176096	Drilling Machine Upright, 1986	Clausing Corp., 1670	4524/Shop
0629230	Saw, Band, Metal Cutting, 1963	Doall Co., 1612U	4524/Shop
0176397	Saw, Power Hack, 1986	Auburn Consolidated Indus., 3169	4524/100

**ATTACHMENT 6-1**

0285393	Hacksaw, 1985	Kasto-Racine Inc., PSB210U	4531/Mshop
0628391	Saw, Band, Metal Cutting, 1964	Doall Co., 1612-1	4531/Mshop
0733419	Lathe, Precision, 1984	Emco Maier Corp., Maxima II	4531/Mshop
1013568	Drilling Machine, Radial, Slide, 1985	Delta Int'l Mach'y, 15-126	4531/Mshop
0631604	Drilling Machine, 1952	White Consolidated Indust, 2	4539/Outsi
0631606	Saw, Band, Metal Cutting, 1953	Doall Co., ML	4539/Outsi
0674269	Saw, Power Hack, 1964	Peerless Saw Co., None	4539/Shop
1899778	Saw, Band, Vertical, 1997	Dake Div JSJ CP, V16	4549/Mshop
1899779	Lathe, Engine, 1997	Lincoln, RL@5TD1440	4549/Mshop
1899781	Press, Hydraulic, 1997	Dake Div JSJ CP, 5150-3	4549/Mshop
1898484	Saw, Power Hack, 1997	Keller Industries, 3HD	4549/Mshop
0627190	Lathe, Engine, 1960	Monarch Machine Tool Co., 10EE	4551/Basmt
0734313	Shear/Brake, 1985	Triok Pacific One, TRIOK 3	4551/Basmt
1899873	Saw, Band, Metal Cutting, 1997	Wilton Corp., RF66KB30	4551/Basmt
0287255	Grinding Machine Belt Horiz., 1985	Buehler Ltd., DUAMET II	4551/2
677449	Milling Machine	Bridgeport	4551/Basmt
0677434	Saw, Power Hack, 1950	Peerless Saw Co., 41P	4553/100
1218454	Drilling Machine, Radial Slide, 1991	Delta Machine & Tool Co., 15-126	4554/Shop
G082927	Saw, Band, Metal Cutting, 1989	Startrite Inc., 24V	4554/Shop
1396431	Saw, Power Hack, 1956	Peerless Saw Co., None	4554/Shop
1440930	Threading Machine, Pipe, 1994	Emerson Electric Co., 300	4554/Shop
1016072	Threading Machine, Pipe, 1990	Emerson Electric Co., 1822-1	4559/Mshop
0624586	Shearing Machine 3/8 In., 1961	Cincinnati Milacron, 2512	4559/Shop
1397736	Threading Machine, Pipe, 1982	Ridgid Vaertoe, 535	4559/Shop
1538955	Saw, Band, Metal Cutting, 1982	KTS Industries, VTH21SA	4559/Shop
G082005	Punching & Shearing Machine, '89	Mega Mfg., P3	4561/Hibay
0624581	Press, Hydraulic, 1978	Enerpac F-Blackhaw, PER3042A	4561/Hibay
0625032	Drilling Machine Radial, 1956	American Tool & Die, None	4561/Hibay
0628310	Saw, Power Hack, 1964	Peerless Saw Co., None	4561/Hibay
0628313	Drilling Machine, 1964	Cross Co., BMA6	4561/Hibay

**ATTACHMENT 6-1**

0624554	Lathe, Engine, 1964	Monarch Machine Tool Co., 612	4561/Mshop
0624575	Saw, Band, 1966	Doall Co., 3612-3	4561/Mshop
0624579	Lathe, Engine, 1957	Monarch Machine Tool Co., EE	4561/Mshop
0628315	Saw, Band, 1965	Armstrong-Blum Mfg. Co., 8M1	4561/Mshop
0630772	Lathe, Engine, 1956	Monarch Machine Tool Co., EE	4561/Mshop
0630776	Lathe, Engine, 1958	Monarch Machine Tool Co., EE	4561/Mshop
1439433	Threading Machine, Pipe, 1994	Ridgid Vaertoe, 535	4561/Outsi
0678742	Saw, Band, Metal Cutting, 1951	Doall Co., V26	4572/Lev 3
0674455	Saw, Band, 1956	Wells Electronics, Inc., F	4572/301
1225401	Drilling Machine, Upright, 1991	Wilton Corp., 24513	4572/301
G084150	Lathe, Engine, 1979	Bridgeport Machines, EXL44B	4585/Shop
0155988	Saw, Band, Metal Cutting, 1991	Dayton Electric Mfg. Co., 3Z989	4585/Shop
0302480	Shearing Machine, Metal, Sq, 1960	Roper Whitney Inc., 152K	4585/Shop
0630022	Saw, Band, Metal Cutting, 1948	Doall Co., ML	4585/Shop
0545598	Saw, Band, Metal Cutting, 1954	Doall Co., ML-V16	4605/12
C1273	Milling Machine	Bridgeport	4605/12
C1271	Drill Press	Delta	4605/12
Xxxxx	Grinder	Baldor	4605/12
0546066	Lathe, Engine, 1950	Monarch Machine Tool Co., EE	4605/12
0674703	Saw, Band, Metal Cutting, 1964	Doall Co., 2612-1	4607/109
0242793	Drilling Machine, Upright, 1985	Houdaille Ind., Powermatic, 1200	4612/1002
0631164	Lathe, Engine, 1957	Monarch Machine Tool Co., 10EE	4612/1002
0063422	Drilling Machine, Upright, 1987	Doall Co., DGP24	4612/1123
0243265	Lathe, Engine, 1985	Bridgeport Machines, LS1760	4612/1123
0546200	Grinding Machine, Cutlery, 1969	Hammond Machinery Inc., 600D	4612/1123
0733049	Saw, Band, 1984	Doall Co., 2013-20	4612/1123
0733667	Grinder, Surface, 1984	Doall Co., D618-7	4612/1123
1284231	Lathe, Engine, 1954	Monarch Machine Tool Co., EE	4612/1123
1445210	Readout, Digital, 1994	Southwestern Industries, T102-60	4612/1123
05464186	Press, Hydraulic, 1970	PHI Dv Tulip CP, S300R274C6G2D	4612/1125
0546189	Press, Forcing, Hydraulic, 1964	Dake Div.JSJ CP, 25Ton	4612/1125
0679515	Drill Press, 1984	Clausing Corp., 2776A54	4612/1208
1222606	Lathe, Engine, 1991	Jet Equipment & Tools, None	4612/1208

**ATTACHMENT 6-1**

1401260	Saw, Band, Metal Cutting, 1993	Lincoln, KB30	4612/1208
1533483	Milling Unit, Ion Beam, 1994	Fischione E A Instrument, None	4612/1305C
1402244	Grinding/Polishing Machine, 1994	Struers, Inc., ROTIM220	4612/1308
1402245	Grinding/Polishing Machine, 1994	Struers, Inc., ROTIM220	4612/1308
G032202	Stand, Speciman, 1988	Struers, Inc., None	4612/1314
0177364	Abrasive Cutoff Machine	Struers	4612/1314
G32203	Cutoff Saw, Low Speed	Struers	4612/1314
1533439	Cutoff Saw, Low Speed	Buehler	4612/1314
1538691	Polishing Wheels, Table	Buehler	4612/1308
0264832	Polishing Wheels, Table	Buehler	4612/1308
0264314	Polishing Wheels, Table	Buehler	4612/1308
0176885	Grinding Wheel	Buehler	4612/1308
1443661	EDM	Elcut	4612/1208
1221743	Mill	Lincoln	4612/1208
1535159	Cutoff Saw, Low Speed	Buehler	4612/1305C
1533482	Specimen Prep	Fischione E A Instrument, None	4612/1305C
1150638	Cutoff Machine, Adbrasive Disk, '91	Buehler Equipment Co., None	4612/1314
1533439	Saw, Band, Metal Cutting, 1994	Buehler Equipment Co., 11-1480	4612/1314
0544857	Saw, Band, Metal Cutting, 1964	Doall Co., 1612-1	4612/28
044862	Punch Press, 1982	Roper Whitney, 231	4612/30B
0544867	Shear Metal Cutting, 1982	Tennsmith Inc., 52H	4612/30B
0544868	Brake, Hand Operated, 1982	Roper Whitney, NF-240	4612/30B
1962162	Saw, Chop, 1998	Drake Industries, 350ST	4612/30B
1535159	Saw, Circular Blad, Metal Cut, 1995	Buehler Ltd., 11-2180	4612/1305B
1898446	Milling Machine	Bridgeport 8F	4612/1123
0733676	Milling Machine	Bridgeport, Series II	4612/1123
1958423	Drilling Machine, Radial, 1985	Rockwell Int'l General, 150126	4619/LTA
0630775	Lathe, Engine, 1962	Monarch Machine Tool Co., EE	4619/Shop
0631161	Saw, Band, 1962	Armstrong-Blum Mfg. Co., 8M1	4619/Shop
0631166	Shear, Squaring, 1965	Wysong & Miles Co., 625	4619/Shop
0631167	Saw, Band, Metal Cutting, 1961	Doall Co., 1612-1	4619/Shop
0631168	Lathe, Engine, 1957	Axelson Inc., B	4619/Shop
0631170	Saw, Band, Metal Cutting, 1961	Doall Co., 2612-1	4619/Shop
0631172	Drill, Radial, 1964	Giddings & Lewis, 951	4619/Shop
0063509	Drilling Machine, Upright, 1987	Milwaukee Electric Tool, 4202	4619/131
0676358	Drill Press, Magnetic, 1984	Black & Decker, 1551	4619/131
0544859	Press, Arbor, Hand Operated, 1981	Dake Div JSJ CP, 3A	4619/145

CO  
CO  
CO

**ATTACHMENT 6-1**

0624551	Saw, Band, 1965	Armstrong-Blum Mfg. Co., 8M1	4619/145
0624555	Grinding Machine, Drill, 1966	Oliver Machinery Co., 600	4619/145
0624577	Drilling Machine, 1964	Cross Co., BMA6	4619/145
0678148	Drilling & Tapping Machine, 1964	Master Machinery Builders, SM	4619/145
1894443	Drilling, Milling Machine, 1996	Jet Equipment & Tools, JMD18	4619/148
1958024	Welding Machine	Miller	4619/148
1533298	Welding Machine	Miller	4619/148
1900993	Welding Machine	Miller	4619/148
1935646	Milling Machine	Lagun	4619/Shop
Xxxxx	16" Disc Sander/Grinder	Max Universal	4619/Shop
1271130	Sander	Wilton Model 4800	4619/Shop
0625027	Sand Blaster	DeeBlast Corp	4619/Shop
0631163	Press Brake	Verson	4619/Shop
Xxxxx	12" Grinder s/n 2392902	Cincinnati Model 105	4619/145
0624556	Milling Machine	Bridgeport s/n J10679	4619/145
Xxxxx	Drill Press, s/n 640296	Lincoln model DP-588-N	4619/145
Xxxxx	Table Saw, s/n 503267	Duro Model P3018	4619/145
0547519	Saw, Band, 1980	Delta Int'l Machinery, 28-663	4619/165A
0547520	Grinding Machine, 1969	Tulip Corp. PHI Div., M350	4619/165A
0547521	Lathe, Floor, Medium Duty, 1951	Koppers Co., HLV-B	4619/165A
1284163	Boring Machine, Jig, Vertical, 1962	Moore Special Tool Co., 3	4619/165A
1286094	Grinding Machine, Tool & Cut, 1977	Lee K O Co., BA962	4619/165A
1153068	Saw, Circular, Hose Cutting, 1991	Scotchman Industries, CPO350LT	4619/169
1283670	Drilling Machine, Upright, 1993	Powermatic Houdaille Inc., 1200	4619/169
1535329	Lathe, Engine, 1995	Bridgeport Machines, 13-5	4619/169
1937450	Saw, Band, Contour, 1998	Armstrong-Blum Mfg. Co., S36VP	4619/169
1535853	Mill	Bridgeport	4619/169
Xxxxx	Drilling Machine, Bench Top	Famco Machine Co., 80	4619/164
Xxxxx	Grinding Machine	Cincinnati Electric Tool Co., 109	4619/164
0621553	Saw, Band, Metal Cutting, 1952	Doall Co., M-L	4623/104
0860759	Lathe, Engine, 1963	Monarch Machine Tool Co., EE	4623/104
1083218	Drilling Machine, Upright, 1991	Powermatic Houdaille Inc., 1200	4623/104
1155323	Milling Machine	Bridgeport	4623/104
0631001	Rotary Head Mill	Kearney & Trecker	4623/104
1722466	Sander	Delta	4623/104
1535737	Tube Flaring Machine	PHI	4623/104
1155323	Milling Machine	Bridgeport	4623/104

**ATTACHMENT 6-1**

0631001	Milling Machine, Rotary Head	Kearney & Trecker, Model D	4623/104
1535737	Tube Flaring Machine	PHI	4623/104
G030471	Threading Machine, Pipe, 1988	Autoclave Engineers, Inc., CTM	4628/Outsi
0545988	Saw, Metal Cutting, Precision, 1980	Buehler Ltd., 11-1180	4628/106
0541347	Saw, Band, Metal Cutting, 1951	Doall Co., ML	4638/Shop
0546042	Grinding Machine, 1945	Doall Co., G-1	4641/Shop
0628038	Lathe, Engine, 1956	Axelson Inc., B	4641/Shop
0630336	Saw, Power Hack, 1969	Racine Mfg. Co., 1212	4641/Shop
0631579	Lathe, Engine, 1954	Monarch Machine Tool Co., EE	4641/Shop
0674062	Grinding Machine, 1975	Cincinnati Milacron, Monoset	4641/Shop
0677436	Drilling Machine, Radial, 1965	Leblond Makino Machine, 411	4641/Shop
0677437	Lathe, Gap Bed, 1945	Leblond Makino Machine, None	4641/Shop
0677444	Saw, Band, 1963	Doall Co., 16-3	4641/Shop
0677445	Lathe, Precision Speed, 1964	Dynex/Rivett Corp., 60	4641/Shop
0731279	Press, Arbor, 1975	Famco Machine Div Belco, 25C	4641/Shop
0677448	Vertical Mill	Bridgeport	4641/Shop
0628039	Horizontal Mill	Cincinnati Milacron,	4641/Shop
Xxxxx	Air Compressor	Curtis	4641/Shop
Xxxxx	Grinder, Large	B-Line	4641/Shop
Xxxxx	Grinder, Small	B-Line	4641/Shop
Xxxxx	Arc Welder, Heavy Duty	Lincoln	4641/Shop
0547116	Honer, Dry, 1968	Vacu-Blast Co., 200P	4642/Shop
0552179	Saw, Band, 1981	Delta Int'l Mach'y, 28365	4642/Shop
0677427	Lathe, Engine, 1957	Haag Machine Co., HAAG	4642/Shop
Xxxxx	Planer	American Sawmill Mach. Co.	4642/Shop
Xxxxx	Saw, Table	Rockwell Delta	4642/Shop
Xxxxx	Saw, Scroll	Rockwell Delta	4642/Shop
Xxxxx	Drill Press	Walker Turner	4642/Shop
Xxxxx	Jointer	xxx	4642/Shop
Xxxxx	Shaper	xxx	4642/Shop
Xxxxx	Saw, Radial Arm	Rockwell Delta	4642/Shop
0729765	Drilling Machine, 1954	Allis-Chalmers Corp., 2BMA6	4647/Hbay

**ATTACHMENT 6-1**

0674701	Saw, Cutoff, 1981	Emerson Elec. Co, Ridge, 9163-101R	4648/Shed
0674719	Threading Machine, Pipe, 1963	Teledyne Oster, 581-A	4648/100
0674720	Saw, Band, Metal Cutting, 1948	Doall Co., V26	4648/100
G082004	Saw, Circular Blade, Met Cut, 1989	Soco Machinery Co., MC275L	4655/HiBay
0542255	Saw, Power Hack, 1956	Peerless Saw Co., 41PAC	4655/HiBay
0625275	Cutoff Machine, Abrasive Disk, 1964	Curtis-Toledo, BEAVER20	4656/Cage
0625287	Drilling Machine, 1964	White Consolidated Ind., 2LMS-20	4656/102
0625290	Lathe, Engine, 1964	Monarch Machine Tool Co., EE	4656/102
0625291	Lathe, Engine, 1956	Monarch Machine Tool Co., EE	4656/102
0064494	Saw, Power Hack, 1987	Keller Machine Co., 5HD	4656/104
0625231	Saw, Band, Metal Cutting, 1964	Doall Co., 3613-1	4656/104
0625232	Punching Machine, Press Hand, '63	Houdaille Ind., Inc., 2	4656/104
0625233	Saw, Band, 1956	Doall Co., 16-2	4656/104
0621531	Saw, Band, Metal Cutting, 1956	Doall Co., Z16A	4663/C182
1148864	Sharpener, Drill Bit, Grinding, 1991	J&A Machinery Co., None	4670/1Caga
0674856	Drilling Machine, 1964	Buffalo Machinery Co., 21	4671/Mshop
0674861	Saw, Band, Metal Cutting, 1963	Doall Co., 1612-1	4671/Mshop
1014081	Drilling Machine, Radial, Slid, 1964	Delta Int'l Machinery, 15-126	4671/Mshop
1151724	Saw, Band, Vertical, 1991	Armstrong-Blum Mfg., Co., 8MARKII	4671/Mshop
1153569	Saw, Power Hack, 1990	Peerless Pump Co., LHN280	4671/Mshop
1218592	Threading Machine, Pipe, 1991	Autoclave Engineers Inc., None	4671/Mshop
1282150	Lathe, Engine, 1954	Monarch Machine Tool Co., EE	4671/Mshop
0683192	Saw, Band, Metal Cutting, 1977	Doall Co., V26	4671/MSUP
0187340	Engraver, 1987	Domiteaux Inc., None	4674/111
0630349	Drilling Machine, Upright, 1954	Gifford & Co., 5K3440A18	4696/2
0675696	Press, Forcing, Hydraulic, 1964	Dake Div. JSJ CP, 28-149	4704/Shop
1286816	Press, Hydraulic, 1951	Lake Erie Machine Co., 1200T	4704/Shop
Maintained	by support contractor, ASRI		4705

**ATTACHMENT 6-1**

0065712	Press, Hydraulic, 1964	Lodge/Shiple Co., 60106T400W2E	4707/Hbay
0187153	Press, Forcing, Hydraulic, 1986	Priam Corp., NTB14	4707/Hbay
1269527	Press, Hydraulic, 1991	Grimco Pneumatic Corp., 150-2SP	4707/Hbay
1281980	Saw, Band, Metal Cutting, 1992	Lincoln, KB30	4707/107
0265009	Press, Forcing, Hydraulic, 1986	Tetrahedron Associates, MTP14	4707/121A
0064988	Press, Forcing, Hydraulic, 1987	Tetrahedron Associates, MTP14	4707/129A
0441805	Press, Forcing, Hydraulic, 1983	Tetrahedron Associates, MTP14	4707/132
1150458	Press, Forcing, Hydraulic, 1991	Tetrahedron Associates, MTP14	4707/132
1937212	Tool, Specimen Mounting, 1998	Buehler Ltd., 20-1410	4707/132
1937213	Saw, Metal Cutting, Precision, 1998	Buehler Ltd., 11-1280-160	4707/132
1726276	Machine, Rapid Prototyping, 1996	Helisys Inc., LOM1015	4707/142
1727621	Machine, Rapid Prototyping, 1996	DTM Corp., 2000	4707/142
1727756	Machine, Rapid Prototyping, 1996	Western Graphtec Inc., FC2100-60A	4707/142
1740772	Machine, Rapid Prototyping, 1996	Stratasys Inc., 3D	4707/142
1936338	Machine, Rapid Prototyping, 1997	BPM Technologies, 2100	4707/142
1937449	Machine, Rapid Prototyping, 1998	Z Corp., Z402	4707/142
1898401	Table, Rapid Prototyping Mach, '97	DTM Corp., RBF15	4707/142A
1401387	Threading Machine, Pipe, 1994	Ridgid Vaertoe, 535	4708/Outsi
0176104	Saw, Circular Blade, 1986	Buehler Ltd., 11-1180-160	4711/E125
G082463	Console, Polishing Wheel, 1989	Leco Corp., None	4711/E180
G082464	Console, Polishing Wheel, 1989	Leco Corp., None	4711/E180
G082465	Press, Hydraulic Mounting, 1989	Leco Corp., None	4711/E180
G081898	Saw, Isonet, 1989	Buehler Ltd., 11-2280-160	4711/E180
1153261	Cutoff Machine, Abrasive Disk, 1991	Buehler Equip Co., 95C1700-160	4711/E180
1445125	Polisher-Grinder, 1994	Buehler Ltd., 49-1750-160	4711/E180
0243037	Saw, Band, Metal Cutting, 1986	Armstrong-Blum Mfg. Co., 8MARK-I	4711/Hbay
0546883	Gage Block Set	Fonda	4711/Hbay
0547671	Milling Machine	Bridgeport	4711/Hbay
0680010	Discharge Unit	Hansvedt	4711/Hbay
0680011	Power Supply	Hansvedt	4711/Hbay
1282338	Milling Machine, Vertical	Lagun	4711/Hbay
1938228	Display Unit	View Senic 20	4711/W175
1896749	Readout, Digital	SWI Trak 102	4711/Hbay
1151613	Milling Machine, Vertical	Milltronics	4711/Hbay
1153500	Pump, Hydraulic	n/a	4711/Hbay

**ATTACHMENT 6-1**

1272442	Computer, Micro	IBM PC, AT	4711/W175
1282861	Blast, Cleaning Machine	Trinco	4711/Hbay
1722217	Horizontal Boring Mill, S-axis	Kearny & Trecker, 200	4711
1962399	Machining Center, 3-Axis Vertical	Cincinnati Millicron Arrow 1250	4711
1281979	Readout, Digital	Wizard	4711/Hbay
1401614	Milling Machine, Vertical	Bridgeport	4711/Hbay
1401615	Milling Machine, Vertical	Bridgeport	4711/Hbay
0546809	Sander Belt Electric Floor MTD	Hommond	4711/Hbay
0546812	Milling Machine	Kearny & Trecker, 200	4711/Hbay
0546813	Milling Machine	Cincinnati Millicron Arrow 1250	4711/Hbay
1936245	Grit Blast System, Automated, 1997	Clemco Industries, 7983	4711/Shop
Xxxxx	Grinding Machine	Baldor, Cat #623E	4711/W174
0285681	Lathe, Engine, 1985	Monarch Machine Tool Co., EE	4711/Hbay
0546801	Shearing Machine, 1968	Cincinnati Milacron Inc., 2504	4711/Hbay
0546807	Cutoff Machine, Abrasive Disk, 1964	Buehler Ltd., 10-1030	4711/Hbay
0546808	Drilling Machine, 1966	Western Machine & Tool, One	4711/Hbay
0546810	Grinding-Cutting Machine, 1980	Everett Industries, Inc., 20AA22	4711/Hbay
0546811	Grinding Machine, 1964	Brown & Sharpe Mfg. Co., 1224	4711/Hbay
0546814	Saw, Power Hack, 1970	Peerless Saw Co., 41P	4711/Hbay
0546817	Lathe, Metal Cutting, 1966	Leblond Makino Machine, 14 in.	4711/Hbay
0546821	Grinding Machine, 1979	Cincinnati Milacron Inc., None	4711/Hbay
0546826	Lathe, Engine, 1964	Monarch Machine Tool Co., EE	4711/Hbay
0546827	Saw, Band, 1957	Doall Co., 26-2	4711/Hbay
0546829	Saw, Band, 1964	Doall Co., Gulf 2613-2	4711/Hbay
0547149	Press, Hydraulic, 1966	Wilson K.R., Inc., 37F-MD3	4711/Hbay
0679875	Drill, Press flr. Type, 20 in., 1984	Houdaille Ind. Powermatic, 1200	4711/Hbay
0732310	Grinder, Electrode, 1984	Weldma Co., Inc. WG180	4711/Hbay
1282913	Grinder, Tool Post, 1992	Dumore Co., 57 AN	4711/Hbay
1401613	Lathe, Engine, 1969	Monarch Machine Tool Co., EE	4711/Hbay
0547134	Drilling Machine, 1958	National Jet Co., 7A	4711/W134
0547167	Lapping Machine, 1968	Crane Co., National, 15	4711/W134
0547132	Lathe, Clausing, 1969	Clausing Corp., 8031	4711/W136
0547136	Lathe, Engine, 1956	Monarch Machine Tool Co., EE	4711/W136
0547138	Saw, Band, Metal Cutting, 1966	Doall Co., 1612-3	4711/W136
0547139	Grinding Machine, Cutter, 1971	Kearney & Trecker, 375-4	4711/W136
0547140	Lathe, Engine	Monarch Machine Tool Co., EE	4711/W136
0547141	Boring Machine, Jig, Vertical, 1962	Moore Special Tool Co., 3	4711/W136
0547220	Saw, Macrotome, 1969	Diamond Fabrication, DS1	4711/W136

**ATTACHMENT 6-1**

1269101	Press, Hydraulic Metal Forming, '80	Murdock Engineering Co., None	4711/W140A
0102808	Drilling Machine, Radial, 1987	Delta Int'l Machinery, A5-126	4723/104
0624882	Saw, Band, Metal Cutting, 1966	Doall Co., 1612-1	4723/104
1282697	Lathe, Engine, 1953	Monarch Machine Tool Co., None	4723/104
0624894	Milling Machine	Bridgeport Machines, HV	4723/104
1288409	Grinding/Sanding Machine	Dayton, 3Z866	4723/104
0630433	Drilling Machine, 1969	Delta Int'l Machinery, 15-120	4738/Hbay
0630377	Punching Notching Nibbling Mch,'64	Strippit Inc., 30	4754/Mshop
0630924	Lathe, Engine, 1962	Monarch Machine Tool Co., EE	4754/Mshop
1013649	Saw, Band, Metal Cutting, 1989	Powermatic Houdaille Inc., 87	4754/Mshop
0546355	Lathe, Engine, 1981	South Bend Lathe Co., CL81872B	4755/B10
1533323	Lathe, Engine, 1994	South Bend Lathe Co., CL187RB	4755/B10
1536448	Saw, Band, Metal Cutting, 1995	Powermatic Houdaille Inc., 87	4755/B10
0630362	Saw, Band, 1956	Doall Co., Z16A	4755/105
0630773	Lathe, Engine, 1958	Monarch Machine Tool Co., EE	4755/105
0734124	Shear Sheet Metal, 1985	National Machine & Founder, 5210	4755/105
1445119	Saw, Band, Metal Cutting, 1994	Sears Roebuck & Co., 351.214061	4755/105
0187588	Saw, Band, Cutoff, 1987	Parma Mfg., XC	4759/Shop
0287594	Grinding Machine, 1985	Baldor Electric Co., 1406W	4759/Shop
0287734	Grinding Machine, 1985	Dumore Co., 8526	4759/Shop
0541352	Lathe, Engine, 1945	Leblond Makino Machine, 2-F	4759/Shop
0546423	Drill Press, 1983	Delta Int'l Machinery, 2MT	4759/Shop
0624552	Lathe, Engine, 1952	Axelson Inc., HD	4759/Shop
0624583	Saw, Band, Metal Cutting, 1966	Doall Co., 1612-3	4759/Shop
0630340	Press, Forcing, Hydraulic, 1964	Dake Div. JSJ CP, 5-075	4759/Shop
0630677	Boring Jig, 1964	Colt Ind. Pratt & Whitney, 2E	4759/Shop
0630927	Lathe, Engine, 1956	Monarch Machine Tool Co., EE	4759/Shop
0677439	Lathe, Engine, 1987	Monarch Machine Tool Co., EE	4759/Shop
0732015	Saw, Band, 1984	Tannewitz, Inc., TR3613	4759/Shop
1284228	Grinding Machine, Surface, 1992	Harig Mfg., 612	4759/Shop
1935416	Saw, Band, Metal Cutting, 1997	Clausing Industrial Inc., V900H	4759/Shop
0546394	Grinding Machine, Vertical, 1964	Hammond Machinery Inc., VH-600W	4759/5
0630926	Lathe, Engine, 1956	Monarch Machine Tool Co., EE	4759/5

**ATTACHMENT 6-1**

0546432	Saw, Band, Metal Cutting, 1960	Doall Co., 3612-3	4759/6
1895208	Saw, Band, Metal Cutting, 1996	Startrite Inc., V900H	4759/6
0621548	Saw, Band, 1961	Armstrong-Blum Mfg. Co., 8/MI	4774/Shop
0630341	Shearing Machine, 1964	Lodge & Shipley Co., 0406	4774/Shop
1725249	Lathe, Engine, 1996	Bridgeport Machines, 13-5	4774/Shop
1895085	Saw, Band, Metal Cutting, 1984	Tannewitz Inc., TR3613M	4774/Shop
1896437	Drilling Machine, Upright, 1996	Wilton Corp., 5816	4774/Shop
1896734	Boring & Turning Machine, 1997	Wilton Corp., VS203	4774/Shop
1896746	Punch Press, 1997	Roper Whitney Inc., 34	4774/Shop
1896782	Notcher, 1997	DBI Industries, 43B	4774/Shop
1898154	Saw, Band, Metal Cutting, 1997	Wilton Corp., 8014	4774/Shop
1935948	Lathe, Engine, 1997	Harrison T S and Sons, M460GH	4774/Shop
0630399	Lathe, Engine, 1964	Monarch Machine Tool Co., EE	4775/Mshop
0630637	Lathe, Engine, 1953	Monarch Machine Tool Co., 60	4775/Mshop
0675575	Saw, Band, Metal Cutting, 1942	Doall Co., ML	4775/Mshop
0675576	Lathe, 1950	Koppers Co., Inc., HLV	4775/Mshop
1401017	Saw, Power Hack, 1952	Kasto-Racine Inc., None	4775/Mshop
0630647	Mill, K&T, Rotary	Kearney & Trecker, Model D	4775/Mshop
C10495	Drill Press	Buffalo Forge Co.	4775/Mshop
C10486	Drill Press	Delta	4775/Mshop
1221602	Saw, Band, Metal Cutting, 1991	Rutland Tool Service Inc., 2668 0360	4815/Hangr
0677267	Shearing Machine, 1958	Lodge & Shipley Co., 0812	8023/Mhse
0677269	Saw, Hydraulic, 1961	Racine Mfg. Co., Inc., 2020	8023/Mhse
0677270	Saw, Band, 1963	Doall Co., ZV3620	8023/Mhse
0677272	Saw, Metal Cutting, 1963	Kysor Machine Tool, SS160L	8023/Mhse
1017222	Saw, Metal Cutting, 1971	Peerless Saw Co., 11x11	8023/Mhse
1017224	Saw, Metal Cutting, 1963	Kysor Machine Tool, M120	8023/Mhse
0677423	Shearing Machine, 1945	Bertsch & Co., None	8023/Yard
1442405	Saw, Band, Metal Cutting, 1994	Carolina Tool & Equipment, HV20	8025/Whse
0066009	Press, Forcing, Hydraulic, 1987	Tetrahedron Associates, MTP14	8025/10
0541349	Tool Shaper	Rockford Machine, 206ES14	M1-Yard

**ATTACHMENT 6-1**

Machine Shop equipment has not been maintained under a specific contract for the past 5 years. Detailed historical data is not available.

Historical work order data for RDT&E equipment from 1996-2002 is provided as Attachment 6-1A.

T. Furniture Repairs: The historical data below represents the number of repairs of the items in the MSFC Approved Furniture Listing. Increase in FY2001 is due to effort to repair furniture vs. replace.

		FY 1999	FY 2000	FY 2001
Furniture Repaired		282	261	1,528

<b>MSFC APPROVED FURNITURE LISTING</b>		
<b>Type of Furniture Currently in Use at MSFC</b>		
<b>Type</b>	<b>Items</b>	<b>National Stock Number</b>
Contemporary	Desk	
	Overhang Desk	7110-00-L66-7915
	Regular Desk, Double Ped	7110-00-L66-7659
	Credenza	
	Storage Credenza	7110-00-128-0546
	Computer Credenza	7110-00-L66-7913
	Supply Cabinet	7125-00-764-6141
	Table	
	Rectangular 6-foot	7110-00-L66-8155
	Rectangular 5-foot	7110-00-113-0509
	Round w/legs	7110-00-149-2046
	File Cabinets	
	5-Drawer Lateral	7110-00-L66-6912
	5-Drawer Vertical	7110-00-497-2370
	2-Drawer Vertical	7110-00-L66-7948
	Bookcase, 3 Shelf	7110-00-L66-7960
	Coat Rack/Costumer	7195-01-377-7794
	ADP Unit	
	Desk	7110-00-L66-7951
	Hutch	7110-00-L66-7950
Return	7110-00-L66-7952	
Executive Wood	Desk	
	Overhang Desk	7110-00-L66-7656
	Regular Desk	7110-00-L66-8025
	Credenza	

**ATTACHMENT 6-1**

	Computer Credenza	7110-00-L66-8024
	Storage Credenza	7110-00-L66-8030
	Hutch w/Grilled Doors	7110-00-L66-8101
	Cornice Frame	7110-00-L66-8098
	Base for Hutch	7110-00-L66-8099
	File Cabinets	
	4-Drawer Lateral	7110-00-L66-8028
	5-Drawer Vertical	7110-00-551-5495
	2-Drawer Lateral	7110-00-L66-7657
	Table	
	Rectangular 6-foot	7110-00-L66-7890
	Round, 48 Inch	7110-00-L66-7652
	Base	7110-00-L66-7653
	Bookcase	
	w/Grilled Doors	7110-00-L66-8101
	W/Glass Doors	7110-00-L66-8101
	Open	7110-01-246-3060
	Coat Rack/Costumer	7195-00-132-6642
	Large U-Unit Exe Single Ped Desk w/Right Ped	7110-00-L66-8146
	Credenza, Single Left	7110-00-L66-8147
	Bridge Unit	7110-00-L66-8043
	Hutch	7110-00-L66-8031
<b>Systems/Modular</b>		
<b>PMG Approval Required</b>		
<b>Conference Room</b>	Table	
<b>PMG Approval Required</b>	Rectangular (List Sizes/Widths)	
<b>Training Areas</b>	Tables	
	Rectangular, Maple	
	Nevins 42" x 96"	7110-00-L66-8154
	Nevins 42" x 72"	7110-00-L66-8155
	Nevins 36" x 72"	7110-00-L66-8153
	Nevins 36" x 96"	7110-00-L66-8105
	Round, Maple 36" x 36" Pie Inserts	7110-00-L66-8156
	T-Bases	7110-00-L66-8104
	Linking Devices	7110-00-L66-8106
<b>Ergonomic Furniture/Ergo Features</b>	Desk Chairs	

**ATTACHMENT 6-1**

	Aeron A	7110-00-L66-7879
	Aeron B	7110-00-L66-6995
	Aeron C	7110-00-L66-7878
	Leap	7110-00-L66-7827
	Blue Inspire	7110-00-L66-7903
	Side Chair w/arms	
	Inspire Sled Base	7110-00-L66-7901
	Office Conference Chairs w/arms	
	Inspire Sled Base	7110-00-L66-7901
	W/Rollers	7110-00-L66-7903
	Ergonomic Keyboard Tray	7110-00-L66-8020
	Conference Room Chairs	
	W/Rollers	7110-00-L66-8097
	Sled Base	7110-00-L66-8015

**U. Equipment Modification/Integration/Installation:**

Examples during FY01 and FY02:

- Cameca SIMMS System upgrades and integration of CCD imaging system and electron multiplier post accelerator.
- Nicholson FWS upgrade.
- 3-D Stereolithography system laser upgrades.
- Servo drive unit on a Bridgeport mill upgrade.
- Cimcorp gantry robot disassembly.
- Agilent GC upgrade.

**ATTACHMENT 6-1**

**2.5 Motor Pool**

2.5.1

<b>Program Critical Hardware Moves</b>			
	<b>2000</b>	<b>2001</b>	<b>2002</b>
<b>Days Supported</b>	9	6	3
<b>Hours Overtime</b>	46	70	27

2.5.2

<b>GSA Vehicle Transport</b>			
	<b>2000</b>	<b>2001</b>	<b>2002</b>
<b>Off-Base Trips</b>	218	217	142

**2.5.3 MSFC OWNED SPECIAL PURPOSE EQUIPMENT**

<b>ECN</b>	<b>Item Name</b>	<b>Mfg Code</b>	<b>Mfg Name</b>	<b>Mfg Model #</b>	<b>Mfg Serial #</b>	<b>Mfg Year</b>	<b>National Stock #</b>	<b>Cost</b>
008785	SCOOTER, MOTOR	15567	CUSHMAN INDUSTRIES INC.	NONE	1CUNH2223LL020853	1989	2340	\$8,052
008910	***	***	***	***	***	***	***	\$0
062710	TRUCK, LIFT, FORK	11108	CLARKLIFT OF SAN JOSE INC	GP5205	GP138MB-0217-6835	1987	3930	\$14,465
062733	DITCHING MACHINE	26385	CLARK EQUIP CO	T-108 BOBCAT	5044-M-12160	1987	3805	\$3,900
062787	TRUCK MAINENENCE	57526	FORD MOTOR CO THE	FY56	75EVW88086	1975	2320	\$43,910
062883	COMPRESSOR, ROTARY	35301	LEROI DIV DRESSER IND F-WAYNE	A219-92	3132X487	1987	4310	\$8,529
063265	TRUCK FIXED PLATFORM POWERED	15567	CUSHMAN INDUSTRIES INC.	893335-8810	596319	1987	3930	\$2,981
063406	TRUCK, LIFT, PLATFORM	54217	SIMON AERIALS INC F-KRAUSE MFG	MP60	NONE	1987	3930	\$57,664
063659	TRAILER, TANKER	57416	DORSEY TRAILERS INC F-HIGHWAY	TL2360SPL7	633800-2	1963	2330	\$93,500
065836	COMPRESSOR UNIT, ROTARY, AIR	16004	DAVEY COMPRESSOR CO	4M125PVC	26P65-22871	1987	4310	\$9,792
102800	GENERATOR, ALTERNATING CURRENT	16327	DAYTON ELECTRIC MFG CO	3W015	NONE	1987	6115	\$1,433
102946	SEMITRAILER, TANK	28631	HIGHWAY EQUIPMENT CO	NONE	65-6144-1	1987	2330	\$25,197

**ATTACHMENT 6-1**

104574	SAW, ABRASIVE DISK, MASONRY	63174	TARGET INDUSTRIES INC	PACIII145K	11773	1987	3895	\$2,295
104575	SPREADER CONCRETE	58037	STOW MFG CO	36W754	8707835	1987	3895	\$1,260
121394	***	***	***	***	***	***	***	\$0
177373	TRUCK, LIFT, FORK	11083	CATERPILLAR TRACTOR CO	V60B	276240	1980	3930	\$16,756
177374	***	***	***	***	***	***	***	\$0
177376	TRUCK, LIFT, FORK	11083	CATERPILLAR TRACTOR CO	V60B	339648	1980	3930	\$21,357
185633	WELDING MACHINE, ARC	40608	MILLER ELECTRIC MFG CO	44D	J6138171	1987	3431	\$7,238
185634	WELDING MACHINE, ARC	40608	MILLER ELECTRIC MFG CO	44D	J6138172	1987	3431	\$7,238
186104	***	***	***	***	***	***	***	\$0
186197	***	***	***	***	***	***	***	\$0
186471	TRUCK, LIFT, FORK	83299	YALE MATERIALS HANDLING CORP	ERC040ABN485 E077EE	N447523	1987	3930	\$17,378
242525	GRADER ROAD MOTORIZED	13827	HUBER J M CORP YALE MACHINE DE	5063-5099	FG-252893	1975	3805	\$62,719
242526	GRADER ROAD MOTORIZED	13827	HUBER J M CORP YALE MACHINE DE	5063-5099	FG-252921	1975	3805	\$62,719
243719	TRUCK, LIFT, FORK	83299	YALE MATERIALS HANDLING CORP	ERC050JAN36	N426366	1986	3930	\$15,678
243719	TRUCK, LIFT, FORK	83299	YALE MATERIALS HANDLING CORP	ERC050JAN36	N426366	1986	3930	\$15,678
264037	SPREADER	28631	HIGHWAY EQUIPMENT CO	E-2020	81404	1986	3830	\$5,600
264967	SCOOTER, 4 WHEEL	MCKLY	MCKINLEY ELECTRIC VEHICLE	K1254	2300	1986	2340	\$4,128
264968	SCOOTER, 4 WHEEL	MCKLY	MCKINLEY ELECTRIC VEHICLE	K1254	2301	1986	2340	\$4,128
285976	AIR COMPRESSOR	37496	LINDSAY SPECIALTY PRODUCTS	160QD	30167	1985	4310	\$11,000
289070	GRADER ROAD MOTORIZED	13827	HUBER J M CORP YALE MACHINE DE	F-1500M	NONE	1976	3805	\$24,734
416898	MACHINE DUCT RODDING	60613	SEWER RODDING EQUIPMENT CO	HS393	L831070	1983	3441	\$15,790
440736	WELDING MACHINE, ARC	28835	HOBART BROTHERS CO THE	300D	82WS07011	1983	3431	\$5,778
519227	SCOOTER ELECTRIC	15586	CUSHMAN INC A RANSOM CO, FMLY	33584	565920	1984	3920	\$4,520
539903	WELDING MACHINE, ARC	28835	HOBART BROTHERS CO THE	6400	16DW-10130	1964	3431	\$1,652
539910	WELDING MACHINE, ARC	28835	HOBART BROTHERS CO THE	6400	16DW-10116	1964	3431	\$1,652
539911	WELDING MACHINE, ARC	36232	LINCOLN ELECTRIC CO	SAE400JXD	460551	1962	3431	\$1,740
539913	***	***	***	***	***	***	***	\$0
539932	TRACTOR, WHEELED, WAREHOUSE	89749	CLARK EQUIP CO INDUS TRUCK DIV	FCT80	101-483	1964	3930	\$5,679
539945	***	***	***	***	***	***	***	\$0
539946	TRUCK, LIFT, FORK	30076	HYSTER CO F-LEWIS-SHEPARD DIV	H60F	B3D-2533K	1966	3930	\$7,152
540061	***	***	***	***	***	***	***	\$0
540185	EXCAVATOR	5270	WARNER & SWASEY LIMA PLANT	G-660	NP-165403	1971	3805	\$59,290

ATTACHMENT 6-1

540192	BACK-HOE	501	FORD MOTOR CO TRACTOR AND IMPL	445	C703683	1983	3805	\$21,354
540194	HARROW DISK	51658	ROME INDUSTRIES	TM20-28	STMR-1836	1962	3710	\$3,161
540196	WELDING MACHINE, ARC	36232	LINCOLN ELECTRIC CO	400JXD	A-457914	1962	3431	\$1,740
540201	SPRAYER-DUSTER, INSECTEIDE	9547	BUFFALO MACHINERY CO INC	NONE	NONE	1973	3740	\$3,929
540588	SEMITRAILER, VAN	40670	MILLER TRAILERS INC	M373A5	07J29670	1970	2330	\$15,000
541237	***	***	***	***	***	***	***	\$0
541243	***	***	***	***	***	***	***	\$0
541244	***	***	***	***	***	***	***	\$0
541244	***	***	***	***	***	***	***	\$0
541312	***	***	***	***	***	***	***	\$0
541314	WELDING MACHINE, ARC	36232	LINCOLN ELECTRIC CO	SAE400	A-486475	1964	3431	\$1,145
541317	WELDING MACHINE, ARC	36232	LINCOLN ELECTRIC CO	4636	A420982	1960	3431	\$1,697
541318	LOADER, WHEELED	11083	CATERPILLAR TRACTOR CO	930	41K2170	1971	3950	\$22,269
541321	***	***	***	***	***	***	***	\$0
541427	***	***	***	***	***	***	***	\$0
541473	PORTALITE	89232	HAYES MFG CO	586-2-400A	119	1959	6230	\$2,161
541500	WHEEL ROLLER VIBRATORY	51805	ROSCO MFG CO	VIBRASTAT-2	20795	1976	3895	\$6,198
541501	SEMITRAILER, VAN	57416	DORSEY TRAILERS INC F-HIGHWAY	77VS1-352S	644857-1	1964	2330	\$4,250
541505	TRUCK-KRANE 30 TON	46717	PETTIBONE CORP	60TK	71TK6006	1971	2320	\$66,825
541509	PUMP GASOLINE TRAILER MOUNTED	80293	FCD CORP F-LFE CP FLUID CTLS	4W6002	2353121	1972	4320	\$2,021
541510	PUMP PORTABLE TRAILER MOUNTED	80293	FCD CORP F-LFE CP FLUID CTLS	4W6002	2397401	1973	4320	\$3,400
541512	WELDING MACHINE GAS	92292	BOC GROUP F-AIRCO INC RESEARCH	3DDCLDB13	B38072T5H5F	1965	3431	\$1,384
541513	WELDING MACHINE, ARC	36232	LINCOLN ELECTRIC CO	SAE400JXD	462684	1963	3431	\$1,740
542270	***	***	***	***	***	***	***	\$0
542272	SPREADER	57416	DORSEY TRAILERS INC F-HIGHWAY	E-2020	71844	1981	3830	\$7,315
542281	***	***	***	***	***	***	***	\$0
542624	TRUCK, LIFT, FORK	90031	RAYMOND CORP THE	W3RTN42-33-104-5	851-W3RTN-366	1965	3930	\$5,091
543447	***	***	***	***	***	***	***	\$0
547681	SCOOTER ELECTRIC	15586	CUSHMAN INC A RANSOM CO, FMLY	898335-8410	565991	1984	3920	\$4,520
552233	TRUCK 1 TON DUMP	23040	FORD MOTOR CO FORD PARTS	F-350	IFDJF3765BUA37785	1981	2320	\$10,585
621372	TRUCK, LIFT, FORK, ELECTRIC	89749	CLARK EQUIP CO INDUS TRUCK DIV	EC60-59	EC605614-2092	1970	3930	\$11,063
621442	***	***	***	***	***	***	***	\$0

**ATTACHMENT 6-1**

621612	TRAILER, CARGO	57416	DORSEY TRAILERS INC F-HIGHWAY	TL23-6CSPL	655607-2	1965	2330	\$25,197
621624	***	***	***	***	***	***	***	\$0
623951	***	***	***	***	***	***	***	\$0
624558	***	***	***	***	***	***	***	\$0
624576	TRUCK, LIFT, FORK COMPARATOR, INTERNAL	95058	HYSTER CO F-LEWIS SHEPARD CO	H60F	B3D-2534K	1966	3930	\$7,152
624673	HORIZONTAL	54465	WARNER&SWASY	NONE	748	1966	6635	\$10,144
624866	TRUCK, LIFT, FORK	30612	ALLIS-CHALMERS INDUS TRUCK DV	ACE40CR	DLE112039	1978	3930	\$14,780
624867	TRUCK, LIFT, FORK	14382	EATON YALE LTD SUSPENSION DIV	651P040CRS	AG-090979	1965	3930	\$6,300
624874	TRUCK, LIFT, FORK	14382	EATON YALE LTD SUSPENSION DIV	651P080CRS-6	AF068068	1963	3930	\$6,645
624883	TRUCK, LIFT, FORK	46717	PETTIBONE CORP	6560	65K5171	1965	3930	\$7,227
624918	***	***	***	***	***	***	***	\$0
624919	SEMITRAILER, COMPRESSED GAS	57416	DORSEY TRAILERS INC F-HIGHWAY	TL23-6C-SPL	1561442	1965	2330	\$26,500
624920	TRAILER, COMPRESSED GAS CYLIND	23196	ALLENTOWN SCIENTIFIC	TC23	122761	1961	3655	\$21,088
624923	***	***	***	***	***	***	***	\$0
625091	TRUCK, LIFT, FORK	89881	CLARK EQUIP CO TRANSMISSION DV	CHY60	CHY60-16-796	1966	3930	\$6,000
625229	TRUCK, LIFT, FORK	89881	CLARK EQUIP CO TRANSMISSION DV	EUT100	EUT100-11-971-637	1970	3930	\$14,655
625424	CALIBRATOR TIME	23070	EG AND G ORTEC INC F-OAKRIDGE	462	317	1979	6630	\$1,060
625628	WELDING MACHINE, ARC	40608	MILLER ELECTRIC MFG CO	BIG40	HJ131438	1978	3431	\$3,415
625630	***	***	***	***	***	***	***	\$0
625631	WELDING MACHINE, ARC	40608	MILLER ELECTRIC MFG CO	446	J670821	1983	3431	\$7,889
628388	TRUCK, LIFT, FORK	14382	EATON YALE LTD SUSPENSION DIV	4000ELECTRIC	252058	1952	3930	\$1,091
628399	CLEANER STEAM GASOLINE ENGIN D	59455	ALKOTA CLEANING SYSTEMS INC	744-D	X13782	1983	4940	\$3,086
629836	SEMITRAILER, TUBE BANK	92970	INDEPENDENT MFG CO INC	30-9-21AA5000	31-235-11	1965	2330	\$22,130
630279	***	***	***	***	***	***	***	\$0
630332	CRANE CARRYDECK	80194	CASE J I CO	85RM2	1808	1971	3810	\$17,705
630338	TRUCK, LIFT, FORK	89881	CLARK EQUIP CO TRANSMISSION DV	CHY100GAS	CHY100-42-7771166	1966	3930	\$10,000
630423	TRUCK, LIFT, FORK	14382	EATON YALE LTD SUSPENSION DIV	651P040CRS-G	68070	1964	3930	\$4,714
630900	LIFTER	3240	LIFT-A-LOFT CORP	VAL	335	1962	3930	\$5,107
630901	SERVICING PLATFORM SELF PROPEL	3240	LIFT-A-LOFT CORP	VAL-3-2D	VAL353	1963	3930	\$5,571
630922	TRUCK, LIFT, FORK	95058	HYSTER CO F-LEWIS SHEPARD CO	H40F	B3D2523K	1966	3930	\$6,377
630956	TRUCK, LIFT, FORK	10018	AIRFLOW CO F-DRYOMATIC DV	WT130	L3030-1	1963	3930	\$6,500

**ATTACHMENT 6-1**

631043	TRUCK, LIFT, FORK	92855	CROWN AUTOMOTIVE MFG CO	W2T90S	L-5696	1966	3930	\$1,755
631056	TRUCK, LIFT, FORK	89881	CLARK EQUIP CO TRANSMISSION DV	4000LB-GAS	CL1015-LE	1952	3930	\$2,881
631108	TRUCK, LIFT, FORK	14382	EATON YALE LTD SUSPENSION DIV	651P100CRS-6	AF076811	1964	3930	\$8,860
631121	TRUCK, LIFT, FORK	46717	PETTIBONE CORP	200L	57273	1966	3930	\$6,762
631137	TRUCK, LIFT, FORK	93482	C M MFG AND MACHINE CO	WT130	5673	1965	3930	\$1,935
631141	TRUCK, LIFT, FORK	89881	CLARK EQUIP CO TRANSMISSION DV	CFY40B	CFY40B-223-770-11	1966	3930	\$5,000
631583	SEMITRAILER, TUBE BANK	57416	DORSEY TRAILERS INC F-HIGHWAY	30-9-21AA5000	31-160-17	1987	2330	\$22,270
674084	TRAILER, VAN	43999	ROCKWELL INT'L NORTH AMER ACFT	NONE	28619	1960	2330	\$6,747
674139	TRUCK, LIFT, FORK	46717	PETTIBONE CORP	40M	6414828	1964	3930	\$4,714
674238	***	***	***	***	***	***	***	\$0
674261	TRUCK, LIFT, FORK	95058	HYSTER CO F-LEWIS SHEPARD CO	TC200	A7L5055H	1964	3930	\$13,697
674262	TRUCK, LIFT, FORK	95058	HYSTER CO F-LEWIS SHEPARD CO	F244	A-17L2440H	1963	3930	\$6,708
674427	WELDING MACHINE, ARC	36232	LINCOLN ELECTRIC CO	SAE400JXD	460550	1962	3431	\$1,740
674428	TRUCK, LIFT, FORK	46717	PETTIBONE CORP MANITOWOC ENGINEERING CO	6S100	64H4781	1964	3930	\$9,041
674500	CRANE, TRUCK MOUNTED, 120 TON	38018	DIVIS	5100D3900T	64-6090	1964	3810	\$194,220
674502	TRUCK, LIFT, FORK	54845	SILENT HOIST AND CRANE CO INC	FK7-1/2GAS	16754	1964	3930	\$11,479
674503	TRAILER, TANK, HYDROGEN	26984	RICHMOND LOX EQUIPMENT CO	NONE	6524	1966	2330	\$85,902
674504	SEMITRAILER, LIQUID HYDROGEN	98632	RUSSELL MACHINE CO	SK11-2564	787	1968	2330	\$129,926
674506	***	***	***	***	***	***	***	\$0
674729	TRUCK, LIFT, FORK	95058	HYSTER CO F-LEWIS SHEPARD CO	S100B	A17L22086	1963	3930	\$7,967
675032	GENERATOR ELECTRICAL GASOLINE	44940	ONAN CORP	NONE	L780382393	1979	6115	\$8,375
675146	TRUCK VAN	89955	GENERAL MOTORS CORP	ZE06583	TZE-367V100915	1977	2320	\$26,701
675268	SEMITRAILER, FUEL SERVICING	97783	GENERAL STEEL TANK CO	NONE	648-1-3	1958	2320	\$13,346
675269	SEMITRAILER, FLAT BED, 25 TON	80328	DORSEY TRAILERS INC	M172	23085	1951	2330	\$3,238
675272	SEMITRAILER, COMPRESSED GAS	92758	STANDARD STEEL OF TITANIUM	38TUBE	31000-66	1977	2330	\$31,648
675401	***	***	***	***	***	***	***	\$0
675412	CRANE HYDRAULIC-25000 LB CAP	46717	PETTIBONE CORP	M-25	46-12-A-588	1964	3810	\$28,000
675568	TRUCK, LIFT, FORK	44769	OLIVER MACHINERY CO	71D-RR05	0-1715	1966	3930	\$6,800
675697	TRUCK, LIFT, FORK	14382	EATON YALE LTD SUSPENSION DIV	GP52204	AF-076470	1964	3930	\$3,990
675780	SEMITRAILER, VAN	40670	MILLER TRAILERS INC	M373A5	07J29870	1970	2330	\$15,000
675788	TRUCK, LIFT, FORK	14382	EATON YALE LTD SUSPENSION DIV	653P200FRS-6	AF-067955	1964	3930	\$12,032
675792	***	***	***	***	***	***	***	\$0

**ATTACHMENT 6-1**

675895	TRAILER, 1/4 TON	23382	FWD CORP F-FOUR WHEEL DRIVE	K38*MSFC2074	VEHIC TAG NA17649	1952	2330	\$1,200
675896	SEMITRAILER, COMPRESSED GAS	57416	DORSEY TRAILERS INC F-HIGHWAY	TL23-6C-SPL	655607	1965	2330	\$25,197
676753	TRUCK, LIFT, FORK	10699	BAKER R H AND CO INC	4000LB-ELECTRIC	26307	1953	3930	\$4,450
676793	SEMITRAILER, COMPRESSED GAS	18756	TAYLOR-WHARTON DIV HARSCO CORP	17243	216666	1960	2330	\$25,815
676812	TRUCK, LIFT, FORK	14382	EATON YALE LTD SUSPENSION DIV	651P040CRS-G	68066	1964	3930	\$4,714
676814	SCOOTER, MOTOR	15567	CUSHMAN INDUSTRIES INC.	780-880710	190243	1965	2340	\$1,262
676874	SEMITRAILER, COMPRESSED GAS	57416	DORSEY TRAILERS INC F-HIGHWAY	TL23-6C-SPL	655890-1	1965	2330	\$25,197
676876	***	***	***	***	***	***	***	\$0
676889	TRAILER, LOW BED	80328	DORSEY TRAILERS INC	NONE	22711	1951	2330	\$3,758
676893	TRUCK, LIFT, FORK	14382	EATON YALE LTD SUSPENSION DIV	651P040CRS-G	AF-068073	1964	3930	\$4,714
676955	SEMITRAILER, TUBE BANK	92970	INDEPENDENT MFG CO INC	30-9-21AA5000	31-285-13	1965	2330	\$22,270
676959	***	***	***	***	***	***	***	\$0
676960	COMPRESSOR, AIR	17431	DEVILBISS CO	445	348933	1965	4310	\$1,421
677024	***	***	***	***	***	***	***	\$0
677031	TRAILER, LOW BED	80328	DORSEY TRAILERS INC	D6-I20	55765	1964	2330	\$2,300
677032	SEMITRAILER, FLAT BED	57416	DORSEY TRAILERS INC F-HIGHWAY	SKD3808	128404	1953	2330	\$3,456
677040	TRUCK, LIFT, FORK	14382	EATON YALE LTD SUSPENSION DIV	63P150MOS	591	1966	3930	\$10,635
677041	TRUCK, LIFT, FORK	14382	EATON YALE LTD SUSPENSION DIV	63P150FRS	AF-076790	1964	3930	\$10,310
677045	TRUCK, LIFT, FORK	14382	EATON YALE LTD SUSPENSION DIV	63P150FRS	AF-076789	1964	3930	\$10,310
677049	WELDING MACHINE, ARC	36232	LINCOLN ELECTRIC CO	SAE400F244	A-502466	1964	3431	\$1,740
677125	***	***	***	***	***	***	***	\$0
677138	TRAILER, LOW BED	51501	ROGERS BROS CORP	D60D-57	3497	1946	2330	\$12,855
677256	CRANE 60 TON	10106	P & H INDUSTRIES INC	660TC	26768	1965	3810	\$89,744
677273	TRUCK, LIFT, FORK	46717	PETTIBONE CORP	40GS	65J5150	1965	3930	\$4,812
677285	TRUCK CARGO 3/4 TON	18113	CHRYSLER CP HAMTRAMCK ASSY	W-200	228-1347757	1964	2320	\$3,000
677291	TRUCK, LIFT, FORK	89881	CLARK EQUIP CO TRANSMISSION DV	FY50B	110-749266	1966	3930	\$5,751
677292	TRUCK, LIFT, FORK	95058	HYSTER CO F-LEWIS SHEPARD CO	H60F	B3D-2535K	1966	3930	\$7,152
677300	TRUCK WRECKER	89346	NAVISTAR INT'L F-INT'L HARVSTR	750	FD107472H	1965	2320	\$6,252
677346	***	***	***	***	***	***	***	\$0
677350	TRUCK, LIFT, FORK	89749	CLARK EQUIP CO INDUS TRUCK DIV	CY250	CY20LB-17-753	1966	3930	\$18,564
677351	TRUCK, LIFT, FORK	95058	HYSTER CO F-LEWIS SHEPARD CO	H250	B7P-6556S	1972	3930	\$20,300
677352	CRANE HYDRAULIC	27315	HARNISCHFEGER CP F-P&H DIESEL	MR125	34722S08068007L	1972	3810	\$43,172

### ATTACHMENT 6-1

677353	CRANE CARRYDECK	80194	CASE J I CO	85RM2	804	1965	3810	\$13,935
677488	TRACTOR/SWEEPER	13786	MAGNETIC DEVICES INC	NONE	6	1952	3830	\$8,269
678514	TRAILER, LOW BED	23705	FRUEHAUF CORP	CA60L-SP	C-28935	1951	2330	\$8,776
678520	TRUCK, LIFT, FORK	54845	SILENT HOIST AND CRANE CO INC	FK12-1/2	16752	1964	3930	\$13,833
678525	SEMITRAILER, COMPRESSED GAS	57416	DORSEY TRAILERS INC F-HIGHWAY	TL23-6C-SPL	65-5890-3	1965	2330	\$25,887
678624	SERVICING PLATFORM	3240	LIFT-A-LOFT CORP	40-4	LA97	1961	3930	\$7,839
678739	WELDING MACHINE, ARC	36232	LINCOLN ELECTRIC CO	SAE300F226	A493729	1964	3431	\$1,601
678985	WELDING MACHINE GAS	92292	BOC GROUP F-AIRCO INC RESEARCH	4DD6-LDB-B	39211R4H4G	1964	3431	\$1,652
678995	CLEANER STEAM	29215	JENNY DIV HOMESTEAD INDUS INC	2100	435	1978	4940	\$2,682
679348	CRANE TRUCK MOUNTED	27315	HARNISCHFEGER CP F-P&H DIESEL	T-650	33496	1971	3810	\$101,572
679451	SEMITRAILER	14925	TELEDYNE BROWN ENGINEERING	HDDFT1-7065A	1A1-36520-9- E1538193	1984	2330	\$151,000
703475	SEMITRAILER, TANK	27996	HEIL CO THE	M131A5	915942	1973	2330	\$15,500
703476	SEMITRAILER, TANK	27996	HEIL CO THE	NONE	915843	1973	2330	\$15,500
703511	SEMITRAILER, TANK	34020	PROGRESS PRODUCTS CO INC	NONE	22255	1966	2330	\$7,012
728818	TRUCK, LIFT, FORK	89881	CLARK EQUIP CO TRANSMISSION DV	CF40MB	CF40MB-225-815-11	1966	3930	\$6,050
728819	TRUCK, LIFT, FORK	95058	HYSTER CO F-LEWIS SHEPARD CO	S60B	B4L3502J	1965	3930	\$6,164
729315	CART, TOUR, ELECTRIC	15567	CUSHMAN INDUSTRIES INC.	10	NONE	1964	2320	\$1,262
729462	TRUCK, LIFT, FORK	14382	EATON YALE LTD SUSPENSION DIV	G51P060CRS-G	AF068067	1964	3930	\$5,204
729464	TRUCK, LIFT, FORK	95058	HYSTER CO F-LEWIS SHEPARD CO	YE40	A3D4198-E	1961	3930	\$6,585
729467	TRUCK, LIFT, FORK	95058	HYSTER CO F-LEWIS SHEPARD CO	4000LB-GAS	A3D6699	1965	3930	\$5,417
729482	***	***	***	***	***	***	***	\$0
729501	***	***	***	***	***	***	***	\$0
729506	TRAILER, 4 WHEEL	53800	SEARS ROEBUCK AND CO	NONE	704906	1956	2330	\$2,664
729726	TRUCK, LIFT, FORK	89881	CLARK EQUIP CO TRANSMISSION DV	CF40MB	CF40MB-224-815-11	1966	3930	\$5,000
729812	GENERATOR SET	44940	ONAN CORP	3CR-160004P	3532395	1981	6115	\$4,000
729891	SEMITRAILER, TANKER, OXYGEN	742	AIR PRODUCTS AND CHEMICALS INC	NONE	NONE	1957	1450	\$46,500
729976	POWER PLANT MOBILE	54770	SYSTEMS EQUIPMENT PRODUCTS CO	832001	NONE	1977	6116	\$7,678
729978	GENERATOR SET, 10KW	44940	ONAN CORP	15JC3R115	769138404	1969	6115	\$2,850
730160	***	***	***	***	***	***	***	\$0
730316	TRAILER, 4 WHEEL	92836	JOHN DEERE TRACTOR WORKS	NONE	235765	1955	2330	\$2,664
731208	CRANE, TRUCK, WAREHOUSE	10988	CASE J I CO	3330B	6225750	1985	3950	\$43,730
733658	TRUCK, LIFT, FORK	89881	CLARK EQUIP CO TRANSMISSION DV	EPA30	EP138-11-5565	1984	3930	\$23,184

**ATTACHMENT 6-1**

834643	TRUCK, LIFT, FORK	3563	VALE MATERIALS HANDLING CORP	ERC040ABN48S E077EE	M457735	1988	3930	\$18,234
834644	TRUCK, LIFT, FORK	3563	VALE MATERIALS HANDLING CORP	ERC040ABN48S E077EE	N457738	1988	3930	\$18,234
835922	TRAILER, TANK	742	AIR PRODUCTS AND CHEMICALS INC	AF-M32A4	1089	1963	2330	\$9,350
835925	TRAILER, 4 WHEEL	53800	SEARS ROEBUCK AND CO	NONE	3167D	1956	2330	\$2,664
835926	TRAILER, 4 WHEEL	92836	JOHN DEERE TRACTOR WORKS	NONE	NONE	1956	2330	\$2,664
836106	WELDING MACHINE, ARC	40608	MILLER ELECTRIC MFG CO	44G TL23-6C-SPL*	JJ437808	1988	3431	\$5,764
836534	SEMITRAILER, COMPRESSED GAS	57416	DORSEY TRAILERS INC F-HIGHWAY	(63273)	655607-1	1965	2330	\$25,197
836535	TRAILER, 4 WHEEL	53800	SEARS ROEBUCK AND CO	NONE	7C4908	1956	2330	\$2,664
836536	TRAILER, 4 WHEEL	92836	JOHN DEERE TRACTOR WORKS	NONE	4C4319	1954	2330	\$2,664
836543	SEMITRAILER, LOW BED, 25 TON	72869	EIDAL INTERNATIONAL CORP	NONE	7817	1951	2330	\$7,772
836544	***	***	***	***	***	***	***	\$0
836810	TRUCK, LIFT, PLATFORM	55251	ARROW MFG CO	538	1123	1988	3920	\$15,800
857981	***	***	***	***	***	***	***	\$0
858211	MOWER LAWN TRACTOR PROPRLED	92836	JOHN DEERE TRACTOR WORKS	609	W00609C046397	1988	3750	\$2,314
858948	TAMPER PISTON-HAMMER TYPE INTE	28792	WACKER CORP	BS45Y	579803527	1988	3895	\$1,960
859552	CRANE TRUCK MOUNTED	19384	LINK-BELT DIV FMC CORP	LS0718	3269-711	1987	3810	\$850,000
859688	DISINTEGRATING MACHINE MOBILE	15381	JAY BEE MFG CO F-JOSEPH E F	5IW150	NONE	1988	3615	\$128,438
13380	SERVICING PLATFORM	3240	LIFT-A-LOFT CORP	VAL317RA	VAL 183	1959	3930	\$7,199
13381	SERVICING PLATFORM	3240	LIFT-A-LOFT CORP	VAL317R	VAL312	1961	3930	\$9,250
13624	COMPRESSOR, RECIPROCATING	80552	ATLAS COPCO AIRPOWER	PORTABLE	923223	1989	4310	\$28,498
13827	CLEANER, STEAM, PRESSURE JET	LANDM	LANDA MFG	SCHW6-30521	P0889-3804	1989	4940	\$5,945
13932	TRAILER, VAN	14234	GREAT DANE TRAILERS INC	7311TA	1GRAA9626J5116202	1989	2330	\$140,000
15128	***	***	***	***	***	***	***	\$0
15129	TRUCK, LIFT, FORK	89749	CLARK EQUIP CO INDUS TRUCK DIV	ESM15E	ESM24501126955	1990	3930	\$24,222
15132	PLATFORM LIFT	6Z833	MAYVILLE ENG CO INC	2034HT	8100756	1990	4940	\$10,724
16576	CLEANER, STEAM, PRESSURE JET	29215	JENNY DIV HOMESTEAD INDUS INC	760C	NONE	1990	4940	\$2,670
17006	TRACTOR GASOLINE	94764	PETTIBONE MERCURY CORP	980	18873	1965	2420	\$6,477
17339	CULTIVATOR, GARDEN	92836	JOHN DEERE TRACTOR WORKS	660	TY0660E009138	1990	3750	\$1,868
17390	***	***	***	***	***	***	***	\$0
17391	***	***	***	***	***	***	***	\$0
18135	SNACK UNIT, MOBILE	92277	CHEVROLET MOTOR DIV	CR31403	1GB6R34K9KF305308	1990	2320	\$26,548

**ATTACHMENT 6-1**

18286	TRUCK, LIFT, FORK	HUBTX	HUBTEX MASCHINENBAU	VL30	46220	1990	3930	\$82,886
18401	LOADER, SCOOP TYPE	11083	CATERPILLAR TRACTOR CO	940	041732D	1990	3805	\$13,600
18498	TRUCK, TRACTOR	501	FORD MOTOR CO TRACTOR AND IMPL	F800	1FDXK846MUA06044	1990	2420	\$34,000
80821	***	***	***	***	***	***	***	\$0
81054	LOADER, SCOOP TYPE, FULL TRACK	89926	FIATALLIS N. AMERICA INC	FL14E	9K/00557	1990	3805	\$108,000
81869	TRUCK, LIFT, FORK	30076	HYSTER CO F-LEWIS-SHEPARD DIV	S25XL	194A	1990	3930	\$12,154
82275	***	***	***	***	***	***	***	\$0
82276	***	***	***	***	***	***	***	\$0
82277	TRUCK, LIFT, FORK	30076	HYSTER CO F-LEWIS-SHEPARD DIV	H360XL	NONE	1990	3930	\$71,943
82280	TRUCK, LIFT, FORK	4627	HYSTER CO	J25B	B160V02324L HWIGGINSWLCC9013	1990	3930	\$18,785
82502	TRUCK, LIFT, FORK	60764	WIGGINS LIFT CO INC	WD166P	54	1990	3930	\$53,636
82818	TRUCK, LIFT, FORK	83299	YALE MATERIALS HANDLING CORP	GC100LCNSB072	N497878	1990	3930	\$31,120
82871	TRAILER, COMPRESSED GAS CYLIND	6021	DEERE JOHN DUBUQUE TRACTOR	7187	4C4320	1960	3655	\$2,664
82960	***	***	***	***	***	***	***	\$0
82961	***	***	***	***	***	***	***	\$0
50580	SWEEPER, ROTARY, SELF-PROPELLE	4285	ATHEY PRODUCTS CORP	ABD2	08G0233820	1991	3825	\$72,316
51633	CRANE, TRUCK MOUNTED	19384	LINK-BELT DIV FMC CORP	HSP8018C	6911-948	1991	3810	\$146,799
51648	TRUCK, LIFT, FORK	54446	NISSAN MOTOR CO LTD	E50YEE	1143	1991	3930	\$32,979
51745	TRAILER, CARGO	19207	U S ARMY TANK AUTOMOTIVE CMD	NONE	NONE	1978	2330	\$10,578
51863	GENERATOR, GASOLINE, PORTABLE	44940	ONAN CORP	PRO500E	NONE	1991	6115	\$2,065
53466	GENERATOR SET, GASOLINE ENGINE	28813	GENERAC CORP	NONE	NONE	1991	6115	\$8,290
53685	SEMITRAILER, COMPRESSED GAS	92970	INDEPENDENT MFG CO INC	TL23-6C-SPL	644814-1	1964	2330	\$25,197
54049	SCOOTER, MOTOR, 4 WHEEL	15567	CUSHMAN INDUSTRIES INC.	NONE	92001542	1991	2340	\$4,715
72720	TRAILER	78257	STOUGHTON TRAILERS INC	12TON	CJ0579	1984	2330	\$10,800
18770	TRACK, TURF MAINTENANCE	15567	CUSHMAN INDUSTRIES INC.	898632	92002555	1991	3750	\$10,920
18783	SEMITRAILER, TANK	28631	HIGHWAY EQUIPMENT CO	NONE	633800-1	1991	2330	\$93,500
19381	SCOOTER, MOTOR, 4 WHEEL	50242	KAWASAKI FUJI SEIKI CO	1000	JK1AF6B17JB504689	1991	2340	\$6,734
19393	WELDING MACHINE, ARC	40608	MILLER ELECTRIC MFG CO	446	KB107142	1991	3431	\$6,854
19447	TRUCK, LIFT, FORK	4627	HYSTER CO	H40XL	C177B08095M	1991	3930	\$16,225
21560	CRANE, TRUCK MOUNTED	10106	P & H INDUSTRIES INC	T500	NONE	1991	3810	\$301,100
21724	GENERATOR, ALTERNATING CURRENT	28813	GENERAC CORP	NONE	NONE	1991	6115	\$18,060
21746	***	***	***	***	***	***	***	\$0

ATTACHMENT 6-1

22548	SEMITRAILER, TANKER, LOX	742	AIR PRODUCTS AND CHEMICALS INC	A9	1040	1957	2330	\$37,667
22659	CRANE, TRUCK MOUNTED	12361	GROVE MFG F-MANLIFT INC	RT415	76572	1992	3810	\$146,940
25301	***	***	***	***	***	***	***	\$0
25476	***	***	***	***	***	***	***	\$0
25477	***	***	***	***	***	***	***	\$0
25478	***	***	***	***	***	***	***	\$0
25479	CHIPPER, BRUSH	BRUSH	BRUSH INSTRUMENTS	200	5344	1992	3825	\$14,300
				2815T45BTAB12				
69103	TRUCK, LIFT, FORK	81085	PRESTO LIFTS (LEE ENGINEERING)	7	46616	1991	3930	\$2,569
69657	TRUCK, LIFT, FORK	46717	PETTIBONE CORP	40GS	65J5149	1965	3930	\$4,812
69658	TRUCK, LIFT, FORK	89881	CLARK EQUIP CO TRANSMISSION DV	CF60	CF60-6-798-1166	1966	3930	\$6,000
72727	CRANE, WHEEL MOUNTED	12361	GROVE MFG F-MANLIFT INC	RT740B	77184	1992	3810	\$269,432
72751	FORK LIFT, TRACTOR MOUNTING	5331	LULL CORP F-LULL ENGINEERING	1522	J2F7D5-146	1992	3930	\$66,315
78994	TRUCK, TURF MAINTENANCE	15567	CUSHMAN INDUSTRIES INC.	898-632	93001814	1992	3750	\$12,844
				GLP040AENUAE				
79373	TRUCK, LIFT, FORK	3563	YALE MATERIALS HANDLING CORP	074	N525994	1992	3930	\$15,930
80560	TRUCK, VAN	57526	FORD MOTOR CO THE	F700	1FDPK74C4PVA27541	1993	2320	\$37,040
81329	HYDRO-LASER WATER BLAST MACHIN	50809	TRITAN CORP	31010	461	1973	6625	\$8,620
81858	TRUCK, TANK	INTRL	INTERNATIONAL	PH495545	IS0267T2030	1992	2320	\$65,740
			NORTHWESTERN MOTOR CO F-					
81967	TRACTOR, WHEELED, AIRCRAFT TOW	44185	HARSCO	10126	93C1236	1992	1740	\$19,165
81993	TRUCK, DELIVERY	15567	CUSHMAN INDUSTRIES INC.	898458	93003150	1992	2320	\$9,010
82034	SEMITRAILER, 40 FOOT	92970	INDEPENDENT MFG CO INC	NONE	51691	1961	2330	\$22,365
82036	***	***	***	***	***	***	***	\$0
82487	SEMITRAILER, LOW BED, 25 TON	80751	U S INDUSTRIES INC F-PRESSED	M172	6550	1953	2330	\$3,209
82869	TRUCK, AIRCRAFT FUELING-DEFUEL	FORDM	FORD MOTOR CO	5M300	1FDZW82E9PVA22052	1993	2320	\$132,656
84271	TRUCK, LIFT, FORK	11108	CLARKLIFT OF SAN JOSE INC	TM20	TM247-0594-9055FB	1993	3930	\$22,258
84422	TRAILER, LOW BED	80328	DORSEY TRAILERS INC	DG-I20	55762	1964	2330	\$2,300
				2000LB-				
85912	TRUCK, LIFT, FORK	89881	CLARK EQUIP CO TRANSMISSION DV	ELECTRIC	CFY20B-90-6731065	1965	3930	\$4,068
85913	TRUCK, LIFT, FORK	46717	PETTIBONE CORP	40M	6414831	1964	3930	\$4,714
87057	TRUCK, DELIVERY	15567	CUSHMAN INDUSTRIES INC.	898458	94000895	1993	2320	\$9,636
87077	PLATFORM LIFT	59497	GENIE INDUSTRIES	DPL24	1593-3871S	1993	4940	\$7,795
88449	TRUCK, LIFT, FORK	90031	RAYMOND CORP THE	537LSR30T	537-93-00952	1993	3930	\$48,596

**ATTACHMENT 6-1**

88490	PLATFORM, LIFT	89939	CALAVAR CORPORATION	68	P252-6541	1993	4940	\$70,319
88495	GENERATOR SET, DIESEL ENGINE	2032	HOLLINGSWORTH JOHN R	MEP005A	KZ00196	1978	6115	\$20,810
97755	PUMPING ASSEMBLY, FLAMMABLE LI	81337	US ARMY NATICK RESEARCH AND	NONE	NONE	1988	4320	\$3,957
97988	***	***	***	***	***	***	***	\$0
98088	STAND, MAINTENANCE AIRCRAFT	30188	MCDERMOTT ASSOCIATES INC	18513A	4962-4	1992	4920	\$7,500
98089	STAND, MAINTENANCE AIRCRAFT	30188	MCDERMOTT ASSOCIATES INC	18513A	4962-3	1992	4920	\$7,500
99488	SCOOTER, MOTOR	15567	CUSHMAN INDUSTRIES INC.	898458-9080	1CUNH225LL022362	1989	2340	\$8,453
01079	GENERATOR SET, DIESEL ENGINE	2032	HOLLINGSWORTH JOHN R	MEP005A	KZ00982	1979	6615	\$20,810
01619	TRANSPORTER, KNEEL DOWN	KAMAG	KAMAG TRANSPORTTECHNIK GMBH	1511HS8	8100926	1989	3930	#####
01620	TRANSPORTER, KNEEL DOWN	KAMAG	KAMAG TRANSPORTTECHNIK GMBH	1511HS8	8100925	1989	3930	#####
02070	SCOOTER, MOTOR	15567	CUSHMAN INDUSTRIES INC.	Jun-87	898456-8710	1987	2340	\$5,105
02131	TRUCK, LIFT, PLATFORM	3240	LIFT-A-LOFT CORP	AMV24	AMV529	1994	3930	\$23,465
02141	TRUCK, LIFT, FORK	4627	HYSTER CO	X50XM	D177B10137R	1994	3930	\$18,975
02152	WELDING MACHINE, ARC	22183	HOBART CORP	MA4030G	194WR02018	1994	3431	\$5,393
02153	WELDING MACHINE, ARC	22183	HOBART CORP	MA4030G	194WR02015	1994	3431	\$5,393
02194	CHIPPER, STUMP	5V438	RAYCO MFG INC	R620	MWF20HD94427	1994	3750	\$4,859
39493	TRUCK, LIFT, FORK	89749	CLARK EQUIP CO INDUS TRUCK DIV	GPX27E	GPX230E0684-9367FB	1994	3930	\$20,024
39523	TRUCK, LIFT, FORK	29858	CLARK MACHINERY CO INC	GPX27E	GPX230-0685-9367FB	1994	3930	\$20,024
42227	PLUG-IN UNIT, ELECTRONIC TEST	15434	CUMMINS ENGINE CO	5AT1224858C1	H68372	1972	6645	\$33,984
42392	BULLDOZER, EARTH MOVING	11083	CATERPILLAR TRACTOR CO	DOZER D7E	75L1882	1975	3830	\$79,457
42971	TRUCK, CARRYALL	11862	GENERAL MOTORS CORP CHEVEROLET	LUMINA	1GNDU06LRT102200	1994	2320	\$21,915
42983	DISTRIBUTOR, BITUMINOUS MATERI	OBN28	NEAL MFG CO INC	DP200	DP200T-0017-4319	1994	3895	\$6,650
43123	SWEEPER, ROTARY, SELF-PROPELLE	SWIFT	SWIFT POWER MASTER	SW/62	6893034	1994	3825	\$18,300
44119	GENERATOR SET, DIESEL ENGINE	44940	ONAN CORP	500DFFB	I940554655	1994	6115	\$81,689
44291	WELDING MACHINE, ARC	40608	MILLER ELECTRIC MFG CO	903-280	KF774518	1994	3431	\$1,869
33286	COMPRESSOR, RECIPROCATING	31654	SULLAIR CORP	1300HDTO-CAT	004-116181	1994	4310	\$70,111
33292	PLATFORM LIFT	59497	GENIE INDUSTRIES	Z45/22	2162	1994	4940	\$44,745
35072	GENERATOR SET, DIESEL ENGINE	1425	MAGNETEK INC ALLIS DV F-ALLIS	RDS1560	BN04B364	1995	6115	\$19,047
35073	GENERATOR SET, DIESEL ENGINE	1425	MAGNETEK INC ALLIS DV F-ALLIS	RDS1560	BN04B365	1995	6115	\$19,047
35095	CART, TRANSPORT, ELECTRIC	15586	CUSHMAN INC A RANSOM CO, FMLY	CS95085	89853A	1994	2340	\$9,287
35732	***	***	***	***	***	***	***	\$0
36115	TRUCK, LIFT, PLATFORM	3240	LIFT-A-LOFT CORP	AMV24	AMV569	1995	3930	\$24,670

**ATTACHMENT 6-1**

37453	TRUCK, LIFT, FORK	89749	CLARK EQUIP CO INDUS TRUCK DIV	CGP30	P365L1075	1995	3930	\$21,492
38259	TRUCK, DUMP	57526	FORD MOTOR CO THE	F800	1FDXF80C8TVA12616	1995	2320	\$33,682
38260	TRUCK, DUMP	57526	FORD MOTOR CO THE	F800	1FDXF80C8TVA12617	1995	2320	\$33,682
38713	***	***	***	***	***	***	***	\$0
38954	WELDING MACHINE, ARC	36232	LINCOLN ELECTRIC CO	SAE400F244	A-502462	1964	3431	\$1,740
22015	TRUCK, LIFT, FORK	83299	YALE MATERIALS HANDLING CORP	GLP040AFNUAV 084	A810N01644S	1995	3930	\$14,990
22016	TRUCK, LIFT, FORK	83299	YALE MATERIALS HANDLING CORP	GLP040AFNUAV 084	A810N01672S	1995	3930	\$18,998
22017	TRUCK, LIFT, FORK	83299	YALE MATERIALS HANDLING CORP	OS030EAN24TV 105	A801N06024S	1995	3930	\$14,363
22252	COLLECTOR, DUST	ADVTR	ADVANCED TRAILER MANUFACTURER	DC20	1A9VSNR6XS1247578	1995	4460	\$53,000
22547	TRUCK, LIFT, FORK	DAEWO	DAEWOO ELECTRIC CO INC	G30S2	12-03476	1996	3930	\$19,429
22785	TRUCK, LIFT, FORK	3563	YALE MATERIALS HANDLING CORP	ERC060FCN36SE 072	N397017	1984	3930	\$19,000
24250	CLEANER, PRESSURE, SOLVENT-WAT	S0208	HONDA MOTOR CO LTD	PW843007	723700079	1996	4940	\$1,348
24810	TRUCK, LIFT, FORK	S9102	NISSAN FORKLIFT TOKYO HANBAI	CY6M02L30SN	950098	1996	3930	\$54,990
24848	CLEANER, PRESSURE, SOLVENT-WAT	63897	COLMAN MFG CO INC/DEXTER ENTER	PW0843007	727500157	1996	4940	\$1,348
26794	PLATFORM LIFT	59497	GENIE INDUSTRIES	2-45/22 4WD	2-45-004092	1996	4940	\$51,000
26857	COMPRESSOR UNIT, ROTARY	16004	DAVEY COMPRESSOR CO	5M600	7P408-34866	1983	4310	\$34,840
26865	CLEANER, PRESSURE	CAROE	CAROLINA EQUIPMENT	D44	9950	1996	4940	\$53,211
27759	TRUCK, LIFT, FORK	89749	CLARK EQUIP CO INDUS TRUCK DIV	CGP30	P365G0100-9462FB	1996	3930	\$23,000
94632	PLATFORM LIFT	59497	GENIE INDUSTRIES	Z30-20 GP050RFNUAVO	4362	1997	4940	\$29,513
94935	FORKLIFT	3563	YALE MATERIALS HANDLING CORP	86	E177B11137T	1996	3930	\$18,625
95110	TRAILER, FLAT BED	BETTE	BETTER BUILT TRAILERS	BH1622FB-H PMD30T32FG36	4MNFB162XV0000336	1997	2330	\$3,450
96493	PLATFORM LIFT	33123	ROL-LIFT CORP	I52NNN	PS096564	1996	4940	\$6,795
96717	GENERATOR SET, GASOLINE ENGINE	S0208	HONDA MOTOR CO LTD	EB6500SX	1010336	1997	6115	\$2,489
98155	BASKET LIFT, MAINTENANCE	3240	LIFT-A-LOFT CORP	AMV36-24	AMV655	1997	4940	\$24,982
99542	SEMITRAILER, FLAT BED, 35 TON	73265	FONTAINE TRUCK EQUIPMENT CO	FZP35	5764	1960	2330	\$3,520
99697	WELDING MACHINE, ARC	40608	MILLER ELECTRIC MFG CO	225	KH442127	1997	3431	\$2,249
99707	TRUCK, LIFT, FORK	S9102	NISSAN FORKLIFT TOKYO HANBAI	MAO1L15S	3558	1997	3930	\$6,500
99867	TRUCK, TANK, VACUUM LOADER	23040	FORD MOTOR CO FORD PARTS	LT9513	1FDZS96W3WVA11	1997	2320	\$179,922
00770	PLATFORM LIFT	59497	GENIE INDUSTRIES	IWP205	40971297	1997	4940	\$7,500

**ATTACHMENT 6-1**

00771	PLATFORM LIFT	59497	GENIE INDUSTRIES	IWP205	40971296	1997	4940	\$7,500
33919	TRAILER, CABLE, PULLER	HOGDA	HOGG AND DAVIS	HYDRA985	1H91H131XW1011008	1997	2330	\$68,458
34215	POWER UNIT, MOBILE	CTEKI	C-TEK INC	2000-18	2074370C	1998	6130	\$29,966
34602	TRAILER, CABLE, PULLER	HOGDA	HOGG AND DAVIS	T150	1H9481213W1011009	1997	2330	\$21,366
37536	TRUCK, LIFT, FORK	4627	HYSTER CO	E40XL	C108V030066	1982	3930	\$5,000
58182	TRUCK, VAN	12204	CHRYSLER CORP	RAM250	287HB21Z6LK782569	1990	2320	\$12,986
62096	TRUCK, LIFT, FORK	89749	CLARK EQUIP CO INDUS TRUCK DIV	CGP55	CGP460L0122-9498FB	1998	3930	\$38,376
62114	TRUCK, LIFT, FORK	4627	HYSTER CO	E40XL-MIL	C108G11785L	1990	3940	\$18,750
62213	HELIUM TRAILER, SEMI	72869	EIDAL INTERNATIONAL CORP	1295	HA123	1991	2330	\$43,305
62214	HELIUM TRAILER, SEMI	72869	EIDAL INTERNATIONAL CORP	1295	HA125	1991	2330	\$43,623
62339	TRUCK, LIFT, FORK	4627	HYSTER CO	E40B	M108V04	1990	3930	\$13,755
62341	TRUCK, LIFT, FORK	4627	HYSTER CO	E40B	M108V041044	1990	3930	\$13,755
62505	WELDING MACHINE, ARC	40608	MILLER ELECTRIC MFG CO	6000	NONE	1998	3431	\$2,023
62697	SCOOTER, 4 WHEEL	15567	CUSHMAN INDUSTRIES INC.	898452-9110	91005410	1986	2340	\$6,975
62698	SCOOTER, 4 WHEEL	15567	CUSHMAN INDUSTRIES INC.	898452-9110	91001354-9110	1986	2340	\$6,975
62699	SCOOTER, 4 WHEEL	15567	CUSHMAN INDUSTRIES INC.	898452-9110	91002844	1986	2340	\$6,975
63111	TRUCK, FORKLIFT	46717	PETTIBONE CORP	NI6000RTL	6996	1985	3930	\$10,000
63112	TRUCK, FORKLIFT	4627	HYSTER CO	H155XL	F006G04004K	1991	3930	\$15,000
63113	AIR COMPRESSOR, PORTABLE	B0552	ATLAS COPCO AIRPOWER	XRHS350DD	ARP985419	1990	4310	\$60,000
63114	AIR COMPRESSOR, PORTABLE	B0552	ATLAS COPCO AIRPOWER	XRHS350DD	ARP985333	1990	4310	\$60,000
63115	AIR COMPRESSOR, PORTABLE	B0552	ATLAS COPCO AIRPOWER	XRHS350DD	ARP985332	1990	4310	\$60,000
63862	PLATFORM LIFT	59497	GENIE INDUSTRIES	Z45	4794	1996	3920	\$38,500
64545	TRAILER, GOOSENECK	1JA49	NEW PIG CORP	CS6B34TTA3	40LA53431XP049652	1999	2330	\$26,181
64810	GENERATOR, DIESEL	36024	LIBBY CORP F-LIBBY WELDING CO	MEP-005A	1345	1989	6115	\$22,724
64811	GENERATOR, DIESEL	36024	LIBBY CORP F-LIBBY WELDING CO	MEP-005A	4397	1989	6115	\$22,724
65431	PLATFORM LIFT	59497	GENIE INDUSTRIES	Z45/25	Z450013006	1999	4940	\$43,559
65432	PLATFORM LIFT	59497	GENIE INDUSTRIES	Z45/25	Z450013003	1999	4940	\$43,559
65445	WELDER, PORTABLE GASOLINE	40608	MILLER ELECTRIC MFG CO	903585	KK212541	1999	3431	\$2,175
65649	TRUCK, LIFT, FORK	4627	HYSTER CO	H50XM	H177B13815W	1999	3930	\$21,808
65650	TRUCK, LIFT, FORK	4627	HYSTER CO	H50XM	H177B13825W	1999	3930	\$21,808
011042	TRUCK, MULTI-MEDIA	24617	GENERAL MOTORS CORP	T8500	1GDT7C4C8XJ50710C	1999	2320	\$198,807
014711	TRUCK, LIFT, FORK, BOOM	GEHLI	GEHL INC.	DL12H	12H40JR0450131	2000	3930	\$83,000

**ATTACHMENT 6-1**

015129	SCOOTER, 3 WHEEL	15567	CUSHMAN INDUSTRIES INC.	898400-7410	NONE	1974	2340	\$2,145
015130	SCOOTER, 3 WHEEL	15567	CUSHMAN INDUSTRIES INC.	898400-7410	NONE	1974	2340	\$2,145
015696	TRUCK, LIFT, FORK	4627	HYSTER CO	H50XM	H177B23080X	2000	3930	\$23,000
015697	TRUCK, LIFT, FORK	4627	HYSTER CO	H50XM	H177B23099X	2000	3930	\$23,000
015910	WASHER, PRESSURE	25795	GRAINGER W W INC	PG53500	P110061211	2001	4940	\$2,499
015936	LIGHT UNIT, PORTABLE	99621	ALLMAND BROTHERS INC	NITE LITE PRO	0590PRO1	2001	6230	\$7,350
015947	CRANE, CARRYDECK	OPKZ4	SHUTTLELIFT INC. SUB MARINE TR	3340	10580301	2001	3950	\$81,900
016004	LIGHT UNIT, PORTABLE	99621	ALLMAND BROTHERS INC	NITE LITE PRO	0589PRO01	2001	6230	\$7,350
016121	TRUCK, LIFT	1LVY7	YALE CAROLINAS INC.	GP50ZGNGAE08	A875B13838Y	2001	3930	\$23,915
016161	TRUCK, LIFT, FORK	4627	HYSTER CO	H120XM	K005D06402Y	2001	3930	\$38,638
016559	RECEIVING, SET, TELEVISION	50562	TOSHIBA HOSHASEN CO LTD	61A60A	55500247	2001	7730	\$2,000
016564	TRUCK, LIFT, FORK	89881	CLARK EQUIP CO TRANSMISSION DV	CMP205	CMP158L-1817-6851KF	2001	3930	\$19,334
017354	COMPRESSOR, PORTABLE	31654	SULLAIR CORP	260DPQJD	4136488	2001	4310	\$12,475
017549	GENERATOR SET	AAAA6	COMINTER CORP.	F3L9126EN	8576541	2001	6615	\$11,564
017729	TRUCK, VAN, UTILITY	11862	GENERAL MOTORS CORP CHEVEROLET	G31705	1GCHG3921155370	2002	2320	\$18,000
029256	TRACTOR WHEELED INDUSTRIAL	92836	JOHN DEERE TRACTOR WORKS	310C	T0310CA744702	1987	2420	\$25,689
029409	TRUCK FIXED PLATFORM POWERED	80256	OUTBOARD MARINE CORP	898335-8820	NONE	1987	3930	\$2,981
029666	TRUCK MULTISTOP DELIVERY	24617	GENERAL MOTORS CORP	307K	1G6DHP32KXH3503863	1987	2320	\$21,755
029898	TRUCK MAINTENANCE	GENER	GENERAL MOTERS CORP	TC7D042	1GDL7D1E4JV511589	1987	2320	\$68,200
030744	WELDING MACHINE ARC	41843	HOBART BROS POWER SYS DIV	ROD RUNNER	87W575456	1988	3431	\$1,166
030745	WELDING MACHINE ARC	41843	HOBART BROS POWER SYS DIV	ROD RUNNER	87W575450	1988	3431	\$1,166
030934	CRANE TRUCK	19384	LINK-BELT DIV FMC CORP	HC258	28H2-136B	1988	3810	\$780,000
030937	***	***	***	***	***	***	***	\$0
032057	TRUCK, LIFT, FORK	11083	CATERPILLAR TRACTOR CO	V60B	339795	1980	3930	\$21,357
080867	TRUCK DUMP	29930	INTERNATIONAL HARVESTER CO	4600, DUMP	1HTSAZPMLH697794	1989	2320	\$21,000
080868	TRUCK DUMP	29930	INTERNATIONAL HARVESTER CO	4600, DUMP	1HTSAZPM9LH697793	1989	2320	\$21,000
083816	SWEEPER, ROTARY, SELF-PROPELLE	12685	CLARKE DV MCGRAW-EDISON	436B	205535	1989	3825	\$4,420
085205	POWER UNIT, MOBILE	6919	HESCO ENGINEERING CO	150010F	AD121405	1989	6130	\$10,638

ATTACHMENT 6-1

<b>2.5.4 GSA FLEET VEHICLES / CONTRACTOR PROVIDES MAINTENANCE DELIVERY SERVICE</b>	
<b>SEDANS</b>	
10-21242	SEDAN
12-01803	SEDAN
12-12126	SEDAN
12-12144	SEDAN
12-12147	SEDAN
12-23407	SEDAN
12-24638	SEDAN
12-24664	SEDAN
12-24672	SEDAN
12-34785	SEDAN
12-34792	SEDAN
12-34798	SEDAN
12-34802	SEDAN
12-34804	SEDAN
12-34805	SEDAN
12-34806	SEDAN
12-34807	SEDAN
12-34809	SEDAN
12-34810	SEDAN
12-34813	SEDAN
12-34814	SEDAN
12-34815	SEDAN
12-34816	SEDAN
12-34817	SEDAN
12-34818	SEDAN
12-34819	SEDAN
12-34820	SEDAN
12-34821	SEDAN
12-34822	SEDAN
12-34823	SEDAN
12-34824	SEDAN

ATTACHMENT 6-1

13-02384	SEDAN
13-02386	SEDAN
13-02387	SEDAN
<b>S 10 PICKUPS</b>	
41-18449	S 10 PICKUPS
41-18450	S 10 PICKUPS
41-18451	S 10 PICKUPS
41-18454	S 10 PICKUPS
41-18455	S 10 PICKUPS
41-18459	S 10 PICKUPS
41-18460	S 10 PICKUPS
41-18467	S 10 PICKUPS
41-18470	S 10 PICKUPS
41-18477	S 10 PICKUPS
41-18491	S 10 PICKUPS
41-57013	
41-57014	
<b>FULL SIZE PICKUP TRUCKS</b>	
41-26031	
41-26141	
41-32956	
41-32957	
41-32958	
41-32959	
41-32965	
41-32966	
41-32967	
41-32968	
41-32969	
41-32970	
41-32971	
41-32972	
41-32973	
41-32974	
41-32975	

ATTACHMENT 6-1

41-32976	
41-32977	
41-32978	
41-32979	
41-32980	
41-32983	
41-42999	
42-80587	
42-80588	
42-80606	
<b>SEVEN (7) PASSENGER VAN</b>	
41-26219	
41-32934	
41-32936	
41-32937	
41-32941	
41-32994	
41-36825	
41-36829	
41-36830	
41-80629	
41-43751	
41-43779	
<b>DAKOTA PICK UP TRUCK</b>	
41-27718	
41-27682	
41-27699	
41-27730	
41-27783	
<b>RANGER PICKUP</b>	
41-36850	
<b>JEEP CHEROKEE</b>	
41-43760	
<b>FULL CARGO VAN</b>	
42-09153	

**ATTACHMENT 6-1**

42-43005	
42-80593	
42-80594	
42-80595	
42-80597	
42-80599	
42-80609	
42-80618	
15 PASSENGER VAN	
43-67521	
43-02001	
43-02001	
CHEROKEE VAN	
61-30767	
61-37917	
S&P FLATBED	
71-17358	
71-17364	
TRACTOR	
82-05107	
82-06463	
82-06464	
FUEL TRUCK	
90-00572	

**2.5.5 GSA VEHICLES CURRENTLY ON THE LOGISTICS CONTRACT**

12-23404	Dodge, Stratus 01	42-80589	Chevy PU	
12-23405	Dodge, Stratus 01	42-80596	Ford Van	
12-23406	Dodge, Stratus 01	42-80600	Ford Van	
12-34784	Dodge, Stratus 01	42-80601	Ford Van	
12-34788	Dodge, Stratus 01	42-80602	Ford Van	
12-12124	Breeze	42-80614	Ford Van	
12-12143	Breeze	42-80624	Ford Van	On loan
32-36107	25 Pass Bus			

**ATTACHMENT 6-1**

32-36475	Bluebird Bus		
32-36477	Bluebird Bus	43-64864	Ford Van 15 Pass
41-26032	Dodge, Ram PU		
41-32964	Ford, PU	43-67520	Ford Van 15 Pass
41-26145	Chevy, S10 PU	43-67527	Step Van
41-48502	Chevy, S10 PU		
41-32963	Ford, PU,97	43-67530	Step Van
41-32993	Astro Cargo Van	43-67532	Van
41-43761	Dodge, Ram PU	43-67540	15 Pass
41-57015		71-00005	Box Van
41-65098	Chevy S/10 PU 2002	71-00008	Box Van
41-65099	Chevy, S10 PU 2002	71-00009	Box Van
41-93533			
42-09161	Pickup	71-00010	Box Van
42-43000	Ford, PU, F150, 2001	71-17043	Box Van
42-43002	Ford, PU, F150, 2001	71-17357	Ford - Flatbed
42-43003	Ford, PU, F150, 2001	71-17359	Ford - Flatbed
42-43712		71-17360	Ford - Flatbed
42-43713		71-17361	Box Van
		71-17363	Ford - Flatbed
		71-17365	Ford - Flatbed
42-78667	Handicap Van	81-06548	Box Van
42-80586	Chevy PU	81-06552	Ford - Flatbed
42-80603	Chevy, Utility	81-01961	Ford - Flatbed
42-80646	Ford, Club, 7 pass. Van	82-01962	Tractor
		82-04847	Ford, Box Van
43-67538	Chevy, Utility	82-04961	Ford, Cab/Chassis

**ATTACHMENT 6-1**

<b>2.5.6 SPECIAL PURPOSE EQUIPMENT REPAIRS BY EQUIPMENT TYPE</b>							
<b>Equipment Type</b>	<b>Year</b>	<b>QTY</b>	<b>Repair</b>	<b>Material Cost</b>	<b>Substore</b>	<b>Commercial Cost</b>	<b>Hours</b>
DMS (Personnel Lifts)	FY98	21	21	4510	451	95	174
	FY99	17	15	2999	300	472	184
	FY00	20	25	1005	100	491	182
	FY01	22	33	5808	581	1569	216
Special Purpose (Scooters, SP Veh)	FY98	49	105	15609	1561	4455	756
	FY99	49	104	17638	1764	11320	865
	FY00	53	161	33827	3383	3286	884
	FY01	52	141	19917	1992	951	700
Trailers	FY98	77	45	3930	393	6206	207
	FY99	89	104	3492	349	160	224
	FY00	73	66	5085	508	22273	256
	FY01	73	91	9377	938	9377	226
MHE (Forklifts)	FY98	86	269	26564	2656	6396	1881
	FY99	111	245	25710	2571	13824	1646
	FY00	121	296	24808	2480	9804	1561
	FY01	120	381	41429	4142	18426	1747
Construction (Cranes, Welders, Pumps, Generators, Compressors)	FY98	101	330	61703	6170		
	FY99	104	310	40326	4032	18146	1998
	FY00	93	444	37877	3787	49401	1973
	FY01	92	463	47788	4778	10721	2204
						30829	1980
Sub Store -- Material cost received from the MSFC Supply System. This will not be available in the new contract.							

**ATTACHMENT 6-1**

This Data includes all PM, Repair, and Emergency Trouble Calls for the Motor Pool for the time period specified.

<b>2.5.7 MSFC Motor Pool Operations (misc.)</b>				
	<b>FY98</b>	<b>FY99</b>	<b>FY00</b>	<b>FY01</b>
	<b>PM</b>	<b>PM</b>	<b>PM</b>	<b>PM</b>
<b>LUBE</b>	217	277	351	338
<b>OIL CHG</b>	102	116	108	165
<b>WRECK</b>	2	0	4	3
<b>WASH</b>	N/D	191	440	295
<b>GAS Gallons</b>	87126	113556	148409	148777
<b>DIESEL Gallons</b>	47735	34299	49809	39183
<b>TAXI PASSENGERS</b>	31837	38842	51004	52334
<b>Group Transport</b>	2611	3342	5465	6582
<b>TAXI MILES</b>	51474	62871	80130	83225
<b>GROUP TRNS MILES</b>	5207	5156	9562	9390

<b>2.5.8 SPECIAL PURPOSE EQUIPMENT REPAIR LABOR AND MATERIAL COSTS</b>																
<b>Equipment</b>	<b>FY98</b>				<b>FY 99</b>				<b>FY00</b>				<b>FY01</b>			
	<b>QT</b>	<b>Labor</b>	<b>*Matl</b>	<b>CML</b>	<b>QT</b>	<b>Labor</b>	<b>Matl</b>	<b>CML</b>	<b>QT</b>	<b>Labor</b>	<b>Matl</b>	<b>CML</b>	<b>QT</b>	<b>Labor</b>	<b>Matl</b>	<b>CML</b>
	<b>ea</b>	<b>hours</b>	<b>cost</b>	<b>cost</b>	<b>ea</b>	<b>hours</b>	<b>cost</b>	<b>cost</b>	<b>ea</b>	<b>hours</b>	<b>cost</b>	<b>cost</b>	<b>ea</b>	<b>hours</b>	<b>cost</b>	<b>cost</b>
<b>Compressors</b>	6	86	1499	0	6	87	3374	0	7	28	127	0	7	76	1631	0
<b>Construction</b>	20	454	6877	651	20	344	6648	4045	28	466	6834	1819	32	462	11515	2747
<b>Cranes</b>	16	1163	48777	14673	17	1336	27976	44022	16	1462	29594	8680	15	1201	30468	27877
<b>Forklifts</b>	86	1881	26564	6396	111	1646	25710	13824	121	1561	24808	9804	120	1747	41429	18426
<b>Generators</b>	28	140	1540	75	28	141	1327	997	15	133	489	95	12	125	2849	0
<b>Personnel lifts</b>	21	174	4510	95	17	184	2999	472	20	182	1005	491	22	216	5808	1569
<b>Pumps</b>	1	20	163	30	1	33	163	0	1	8	47	0	1	8	79	0

## ATTACHMENT 6-1

Scooters	19	158	5189	85	22	209	3706	135	23	211	3049	0	24	216	4514	271
Trailers	77	207	3930	6206	89	224	3492	160	73	256	5085	22273	73	226	9377	1343
Welders	30	135	2847	2717	32	120	838	337	26	107	786	127	25	108	1246	205
S.P. Equipment	30	598	10420	4370	27	656	13932	7614	30	673	30778	3286	28	484	15403	680
Excess Equip.			3901	540			159	0			788	95			3261	45
<b>TOTALS</b>	<b>334</b>	<b>5,016</b>	<b>116217</b>	<b>35838</b>	<b>370</b>	<b>4980</b>	<b>90324</b>	<b>71606</b>	<b>360</b>	<b>5087</b>	<b>103390</b>	<b>46570</b>	<b>359</b>	<b>4,869</b>	<b>127,580</b>	<b>53,163</b>
CML - Commercial QT - Quantity MTL - Material																

### 2.6 Property Services

#### Supplies and Materials:

MSFC has historically stocked and/or offered online supplies and materials for over the counter or delivery to its customers. In FY2001, administrative office supplies were no longer stocked but provided via JIT desktop next day delivery. Detailed, background and historical data for the items below will be available in the reading room.

2.6.1 Description	FY1998	FY1999	FY2000	FY2001
Administrative Office Supplies (JIT), included in Substore FY1998-2000	N/A	N/A	N/A	\$707,000
Substore - Value of items	\$2,922,445	\$331,125	\$1,276,830	\$1,682,126
Safe Alerts - Number processed	114	128	142	136
Chemicals - Value of items issued	\$612,200	\$547,868	\$714,153	1,156,838

**FY99 Decrease/FY00 & FY 01 Increase - Due to institutional budget reductions and budget allocations to organizations who initially used credit cards and subsequently reverted back to the substore.**

#### Furniture:

**ATTACHMENT 6-1**

The items on the MSFC Approved Furniture List represents the furniture historically used to outfit employee offices at MSFC.

<b>2.6.2 MSFC APPROVED FURNITURE LIST</b>		
<b>Type</b>	<b>Items</b>	<b>National Stock Number</b>
<b>Contemporary</b>	<b>Desk</b>	
	Overhang Desk	7110-00-L66-7915
	Regular Desk, Double Ped	7110-00-L66-7659
	<b>Credenza</b>	
	Storage Credenza	7110-00-128-0546
	Computer Credenza	7110-00-L66-7913
	Supply Cabinet	7125-00-764-6141
	<b>Table</b>	
	Rectangular 6-foot	7110-00-L66-8155
	Rectangular 5-foot	7110-00-113-0509
	Round w/legs	7110-00-149-2046
	<b>File Cabinets</b>	
	5-Drawer Lateral	7110-00-L66-6912
	5-Drawer Vertical	7110-00-497-2370
	2-Drawer Vertical	7110-00-L66-7948
	Bookcase, 3 Shelf	7110-00-L66-7960
	Coat Rack/Costumer	7195-01-377-7794
	<b>ADP Unit</b>	
	Desk	7110-00-L66-7951
	Hutch	7110-00-L66-7950
Return	7110-00-L66-7952	
<b>Executive Wood</b>	<b>Desk</b>	
	Overhang Desk	7110-00-L66-7656
	Regular Desk	7110-00-L66-8025
	<b>Credenza</b>	
	Computer Credenza	7110-00-L66-8024
	Storage Credenza	7110-00-L66-8030
Hutch w/Grilled Doors	7110-00-L66-8101	

**ATTACHMENT 6-1**

	Cornice Frame	7110-00-L66-8098
	Base for Hutch	7110-00-L66-8099
	File Cabinets	
	4-Drawer Lateral	7110-00-L66-8028
	5-Drawer Vertical	7110-00-551-5495
	2-Drawer Lateral	7110-00-L66-7657
	Table	
	Rectangular 6-foot	7110-00-L66-7890
	Round, 48 Inch	7110-00-L66-7652
	Base	7110-00-L66-7653
	Bookcase	
	w/Grilled Doors	7110-00-L66-8101
	W/Glass Doors	7110-00-L66-8101
	Open	7110-01-246-3060
	Coat Rack/Costumer	7195-00-132-6642
	Large U-Unit Exe Single Ped Desk w/Right Ped	7110-00-L66-8146
	Credenza, Single Left	7110-00-L66-8147
	Bridge Unit	7110-00-L66-8043
	Hutch	7110-00-L66-8031
<b>Systems/Modular</b>		
<b>PMG Approval Required</b>		
<b>Conference Room</b>	Table	
<b>PMG Approval Required</b>	Rectangular (List Sizes/Widths)	
<b>Training Areas</b>	Tables	
	Rectangular, Maple	
	Nevins 42" x 96"	7110-00-L66-8154
	Nevins 42" x 72"	7110-00-L66-8155
	Nevins 36" x 72"	7110-00-L66-8153
	Nevins 36" x 96"	7110-00-L66-8105
	Round, Maple 36" x 36" Pie Inserts	7110-00-L66-8156

**ATTACHMENT 6-1**

	T-Bases	7110-00-L66-8104
	Linking Devices	7110-00-L66-8106
<b>Ergonomic Furniture/Ergo Features</b>	<b>Desk Chairs</b>	
	Aeron A	7110-00-L66-7879
	Aeron B	7110-00-L66-6995
	Aeron C	7110-00-L66-7878
	Leap	7110-00-L66-7827
	Blue Inspire	7110-00-L66-7903
	Side Chair w/arms	
	Inspire Sled Base	7110-00-L66-7901
	<b>Office Conference Chairs w/arms</b>	
	Inspire Sled Base	7110-00-L66-7901
	W/Rollers	7110-00-L66-7903
	Ergonomic Keyboard Tray	7110-00-L66-8020
	<b>Conference Room Chairs</b>	
	W/Rollers	7110-00-L66-8097
	Sled Base	7110-00-L66-8015

<b>2.6.3 Furniture Activity</b>	<b>FY1999</b>	<b>FY2000</b>	<b>FY2001</b>
Customer Requests Received	1,561	3,016	2,579
Furniture Staged for Delivery	3,010	1,088	893
New Furniture Items Issued	2,180	726	2,134
Used Furniture Items Issued	819	727	1,056
Furniture Items Assembled/Disassembled	10,875	5,602	16,995

**ATTACHMENT 6-1**

<b>2.6.4 Fuel Support</b>						
	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>
<b>JP8 Aircraft</b>	149,000	124,000	142,000	113,000	201,000	296,000
<b>Note: 2001 new jet burns more JP8</b>						
<b>Gasoline</b>		87,126	113,556	148,409	148,777	296,000
<b>Diesel</b>		47,735	34,299	49,809	39,183	142,000
<b>Liquid Argon Gallons</b>				7951	8504	
<b>Bulk Burner / Propane Gallons</b>				534000	637,000	
<b>Liquid Carbondioxide (Pounds)</b>			52800		33620	

<b>Gasoline and Diesel Cost (Past Six Months)</b>						
	<b>SEP 2002</b>	<b>AUG 2002</b>	<b>JUL 2002</b>	<b>JUN 2002</b>	<b>MAY 2002</b>	<b>APR 2002</b>
<b>Gasoline</b>	11,706	12,472	13,227	9,781	10,808	10,643
<b>Diesel</b>	3,366	2,503	4,779	2,286	3,669	3,901

<b>2.6.5 Receiving Activity</b>				
	<b>FY98</b>	<b>FY99</b>	<b>FY00</b>	<b>FY01</b>
<b>Line Items Received</b>	11,364	9,829	5,450	7,543
<b>Credit Card Receipts</b>	4,000	4,561	4,093	4,472
<b>JIT Receipts</b>	3,762	5,640	5,289	1,247

**ATTACHMENT 6-1**

Stores Stock Receipts	4,970	2,727	2,388	2,594
Direct Receipts	10,816	1,006	698	1,125

**2.6.6**

<b>Shipping Activity</b>			
	CY99	CY00	CY01
<b>PACKAGING AND CRATING</b>			
Wood Crates	340	300	284
Other Packaging	1610	1469	1152
Parts and Materials (Wood, insulation, bubble wrap, foam, etc.)		\$30,000	\$47,000
Size of Wood Crates:			
48 Cubic Feet or Less	Not Available	Not Available	162
> 48 Cubic Feet but < 101 Cubic Feet	Not Available	Not Available	43
> 101 Cubic Feet but < 150 Cubic Feet	Not Available	Not Available	77
> 150 Cubic Feet but < 200 Cubic Feet	Not Available	Not Available	2
<b>FREIGHT SHIPMENTS</b>			
Commercial (Domestic)	110	280	426
Commercial (International)	50	90	85
GBL (Domestic)	590	328	160
GBL ( International)	31	18	12
Small Package Shipments	888	929	685
Loss and Damage Claims	5	4	4
<p>Note: GBL's were phased out for domestic shipments at the end of CY00 and October 1, 2001 for International Shipments. Commercial bills will be used for all shipments in FY02, except when GBL's would expedite the delivery of international shipments.</p>			
<b>VERIFYING FREIGHT BILL INVOICES</b>	<b>5100</b>	<b>5200</b>	<b>5000</b>

**ATTACHMENT 6-1**

<b>Returnable Containers</b>		
<b>Description</b>	<b>FY2001</b>	<b>FY2002</b>
Vendor Owned Cylinder	1689	789
NASA Owned Cylinders	1183	710

NASA-owned cylinders

Trend is downward due to Center focus on JIT

Vendor owned cylinders, amount based on contractor internal operations.

**2.6.7 Flight Hardware Support Operations Historical Data**

	Fiscal Year 2000										
	Oct-99	Nov-99	1999	Jan-00	Feb-00	Mar-00	Apr-00	May-00	Jun-00	Jul-00	Aug-00
<b>Acquisitions</b>											
Number of Purchases	38	23	26	55	78	63	43	54	53	32	49
Number of Line Items											
Dollar Value	\$262,406	\$72,607	\$156,757	\$230,738	\$573,785	\$419,139	\$219,690	\$403,383	\$219,121	\$155,027	\$233,676
<b>Kitting Request</b>											
Number of request											
Number of Kits											
Number of Line Items											
<b>Alerts</b>											
GIDEP Alerts	4	20	22	25	43	30	4	32	24	36	10
Matches	0	0	0	0	2	1	0	0	0	0	0

**ATTACHMENT 6-1**

													Fiscal Year 2001											
													Oct-00	Nov-00	Dec-00	Jan-01	Feb-01	Mar-01	Apr-01	May-01	Jun-01	Jul-01	Aug-01	S
<b>Acquisitions</b>																								
Number of Purchases													40	31	29	25	42	39	43	70	70	75	71	
Number of Line Items														58	58	153	97	87	134	284	294	332	294	
Dollar Value													\$391,812	\$246,862	\$64,005	\$86,155	\$75,854	\$62,249	\$90,461	\$678,895	\$402,679	\$426,230	\$280,548	\$28
<b>Kitting Request</b>																								
Number of request															14	13	20	29	13	26	22	14	1	
Number of Kits															51	105	66	61	32	63	45	36	22	
Number of Line Items													No Data		409	2121	71	85	84	90	154	282	175	
<b>Alerts</b>																								
GIDEP Alerts													37	19	28	26	34	55	18	87	24	4	22	
Matches													1	1	1	1	0	1	0	0	0	0	0	
													Fiscal Year 2002											
													Oct-01	Nov-01	Dec-01	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	S
<b>Acquisitions</b>																								
Number of Purchases													49	46	25	48	47	53	33	29				
Number of Line Items													243	124	76	134	149	121	72	59				
Dollar Value													\$280,326	\$137,366	\$64,713	\$81,587	\$201,336	\$209,345	\$50,484	\$29,351				
<b>Kitting Request</b>																								
Number of request													10	11	13	24	13	12	30	34				
Number of Kits													12	13	16	24	30	14	45	38				
Number of Line Items													244	158	168	383	125	86	265	240				
<b>Alerts</b>																								
GIDEP Alerts													41		19	0	10							
Matches													1		0	0	0							

**ATTACHMENT 6-1**

**FY02 To Date**

**Acquisitions**  
 978 Line Items for 3 quarters  
 \$1,054,508 Total Value for 3 quarters

**Estimated total for FY02**  
 1222 Line Items  
 \$1,318,135 Total Acquisition value

**Kitting**

192 Kits  
 1669 Line Items

**Estimated for FY02**  
 240  
 2086

<b>Flight Hardware Items</b>		
	<b>All Line Items Including Program Items</b>	<b>Residual Items</b>
<b>Number of Items</b>	47,271	28,197
<b>Value of Items</b>	\$32,458,523	\$11,753,454

FY03 – FY05 -- Project Acquisitions - \$1M - \$2M  
 FY06 Projected Acquisitions - \$2M - \$3M

**ATTACHMENT 6-1**

**2.6.8 Property Management and Accountability**

**2.6.8.1 Controlled Property:**

Activity	FY1998	FY1999	FY2000	FY2001
Equipment Loans	167	186	168	42
Borrows	3	39	17	17
Employee Clearances Processed	N/A	N/A	N/A	561
Pieces Equipment Tagged	2,525	1,903	1,123	1,478
Items Turned in for Disposal	7,600	6,063	3,940	3,718
Microfiche/CD Preparation	N/A	40,317	43,021	56,896
Customer Contacts	17,079	46,180	19,046	22,530
Mobile Property Passes	N/A	N/A	N/A	910
External Loan Agreements	N/A	N/A	N/A	42
Survey Reports	N/A	N/A	N/A	133
Customer Supplied Products	N/A	N/A	33	76
Items Scanned During Inventory	N/A	N/A	N/A	33,774
Inventory Overages	N/A	N/A	N/A	2,037
Inventory Shortages	N/A	N/A	N/A	3,982

Approximately 31,282 controlled items at MSFC located in 202 buildings. A detailed list by building will be provided in the Reading Room.

**2.6.8.2 Property Management Database Transactions:** The following represents the transactions processed for FY2001.

NUMBER OF TRANS	NEMS, INVENTORY, NPDMS, INTERFACE TRANS #'s	EXPLANATION OF TRANSACTION CODES
1,296	01	RECEIPT BY PURCHASE-NASA FUNDED
1	02	RECEIPT BY PURCHASE-OGA FUNDED
552	04	RECEIPT BY TRANSFER-FROM NASA INSTALLATION
1	05	RECEIPT BY TRANSFER-FROM OGA
889	06	RECEIPT BY TRANSFER-FROM CONTRACTOR
2	08	RECEIPT FROM LEASE IN
3	10	RECEIPT FROM FABRICATION
2	11	RECEIPT FROM ASSEMBLY/DISASSEMBLY
209	13	RECEIPT FROM EXCESS
142	14	RECEIPT FROM RETAGGING
40	15	RECEIPT FROM RETURN OF RECORD FROM HISTORICAL FILE
2	17	RECEIPT FROM NON-GOVERNMENT SOURCE

**ATTACHMENT 6-1**

8	145	STORAGE IN-RETURNED - (O)
35	156	REPAIR UPDATE - (O)
28	157	OFF-SITE FOR REPAIR - (U)
14	165	TRANSFER TO ANOTHER NASA INSTALLATION - (U)
4	166	TRANSFER TO OTHER GOVERNMENT AGENCY - (U)
120	167	TRANSFER OF GFE TO A CONTRACTOR - (U)
1	169	LEASE IN-RETURNED - (U)
133	171	SURVEY (MISSING EQUIPMENT) - (U)
8	172	DECONTROL (REMOVAL OF TAG) - (U)
1	173	DELETES RESULTING FROM ASSEMBLY/DISASSEMBLY - (U)
11	174	DELETE FROM RETAG - (O/U)
3	175	BORROW IN - RETURNED
236	180	DISPOSAL OF NASA HELD EQUIPMENT (COND CODE MORE THAN 7) BY CUST - (U)
33	181	DISPOSAL OF NASA HELD EQUIPMENT BY NEMS REUTILIZATION COORD - (U)
4	186	TRANSFER TO REAL PROPERTY - (U)
21	190	DISPOSAL OF EQUIPMENT
2,394	134	INVENTORY UPDATE - NO CHANGE TO EQUIPMENT FILE - (O/U)
3,502	X90	DISPOSAL OF EQUIPMENT
8,973	X60	RECORD DATA CHANGE
234	X65	UTILIZATION OF EQUIPMENT
6,356	X00	FINAL DISPOSITION OF NEMS EQUIPMENT NY NPDMS
9	X19	RECEIPT FROM REINSTATING ITEM PREVIOUSLY SURVEYED
94	D15	RECEIPT FROM RETURN OF RECORD FROM HISTORICAL FILE
49,030	<b>TOTAL TRANSACTIONS</b>	

**2.6.8.3 MSFC APPROVED FURNITURE LIST FOR PROCUREMENT**

Type	Items	National Stock Number
Contemporary	Desk	
	Overhang Desk	7110-00-L66-7915
	Regular Desk, Double Ped	7110-00-L66-7659
	Credenza	
	Storage Credenza	7110-00-128-0546
	Computer Credenza	7110-00-L66-7913
	Supply Cabinet	7125-00-764-6141
	Table	
	Rectangular 6-foot	7110-00-L66-8155
	Rectangular 5-foot	7110-00-113-0509

**ATTACHMENT 6-1**

	Round w/legs	7110-00-149-2046
	<b>File Cabinets</b>	
	5-Drawer Lateral	7110-00-L66-6912
	5-Drawer Vertical	7110-00-497-2370
	2-Drawer Vertical	7110-00-L66-7948
	Bookcase, 3 Shelf	7110-00-L66-7960
	Coat Rack/Costumer	7195-01-377-7794
	<b>ADP Unit</b>	
	Desk	7110-00-L66-7951
	Hutch	7110-00-L66-7950
	Return	7110-00-L66-7952
<b>Executive Wood</b>	<b>Desk</b>	
	Overhang Desk	7110-00-L66-7656
	Regular Desk	7110-00-L66-8025
	<b>Credenza</b>	
	Computer Credenza	7110-00-L66-8024
	Storage Credenza	7110-00-L66-8030
	Hutch w/Grilled Doors	7110-00-L66-8101
	Cornice Frame	7110-00-L66-8098
	Base for Hutch	7110-00-L66-8099
	<b>File Cabinets</b>	
	4-Drawer Lateral	7110-00-L66-8028
	5-Drawer Vertical	7110-00-551-5495
	2-Drawer Lateral	7110-00-L66-7657
	<b>Table</b>	
	Rectangular 6-foot	7110-00-L66-7890
	Round, 48 Inch	7110-00-L66-7652
	Base	7110-00-L66-7653
	<b>Bookcase</b>	
	w/Grilled Doors	7110-00-L66-8101
	W/Glass Doors	7110-00-L66-8101
	Open	7110-01-246-3060
	Coat Rack/Costumer	7195-00-132-6642
	Large U-Unit Exe Single Ped Desk w/Right Ped	7110-00-L66-8146
	Credenza, Single Left	7110-00-L66-8147
	Bridge Unit	7110-00-L66-8043
	Hutch	7110-00-L66-8031

**ATTACHMENT 6-1**

<b>Systems/Modular</b>		
<b>PMG Approval Required</b>		
<b>Conference Room</b>	Table	
<b>PMG Approval Required</b>	Rectangular (List Sizes/Widths)	
<b>Training Areas</b>	Tables	
	Rectangular, Maple	
	Nevins 42" x 96"	7110-00-L66-8154
	Nevins 42" x 72"	7110-00-L66-8155
	Nevins 36" x 72"	7110-00-L66-8153
	Nevins 36" x 96"	7110-00-L66-8105
	Round, Maple 36" x 36" Pie Inserts	7110-00-L66-8156
	T-Bases	7110-00-L66-8104
	Linking Devices	7110-00-L66-8106
<b>Ergonomic Furniture/Ergo Features</b>	Desk Chairs	
	Aeron A	7110-00-L66-7879
	Aeron B	7110-00-L66-6995
	Aeron C	7110-00-L66-7878
	Leap	7110-00-L66-7827
	Blue Inspire	7110-00-L66-7903
	Side Chair w/arms	
	Inspire Sled Base	7110-00-L66-7901
	Office Conference Chairs w/arms	
	Inspire Sled Base	7110-00-L66-7901
	W/Rollers	7110-00-L66-7903
	Ergonomic Keyboard Tray	7110-00-L66-8020
	Conference Room Chairs	
	W/Rollers	7110-00-L66-8097
	Sled Base	7110-00-L66-8015

**2.6.9 Warehouse Activity and Locations by Square Footage:**

Historically, MSFC has used the following building for its logistics services activities.

Amount of space dedicated to:

gross floor sq ft    program stock    store stock    custodial storage    flight furniture hardware disposal    receiving / shipping    Current Building Function:

**ATTACHMENT 6-1**

8023	110,000	50,000	2,000	21,840	21,840					main operating warehouse
8025	110,000			21,840						will be out of by end of dec 02
8023 - outside storage	350,000	200,000		20,000						Program Stock & Large Store Stock items
7204	0									utilized by CSC
7205	7,416			7,400						3 of 5 bays Custodial Storage
7215	9,888				9,000					4 of 5 bays furniture
7244	0									Dr Carters stuff
4621	4,910	2,500	2,400							Chemical storage
4752	37,198									old fitness center - app 24000 sq ft usable
4723	16,404				4,000					Flight Hardware building - app 4000 sq ft for storage of FH
Intergraph 21	95,050			48,787		46,263				leased thru 31 sep 02, one 1 year option remaining
										46, 263 sq ft - Disposal Operations
										48, 787 sq ft - Warehouse Operations
4624	10,400			2,000		8,000				Flight Hardware Storage
4584	986	986								
4465	6,000				4,500					Furniture
4471						9000	10000			
Totals	758,252		4,400		35,340		9000			

**Examples of items warehoused:**

**Examples of Sub Store items currently in 4471:**

All of these items are Store Stock Items

- spark plug / unshielded
- bearing / ball, annular
- torch / welding, gas shielded
- electrode / welding
- flux / soldering
- end mill / 2 or 4 flute double end
- blade / (various types)
- twine / fibrous

## ATTACHMENT 6-1

shackle / anchor

spectacles / industrial

tube / metallic

different types of tubes and fittings and associated compounds

drill / (various types)

screw / (various types)

nuts, washers rivets, nails, clamps, brackets etc

tape / sound recording, video recording

capacitor / various types

toner / (various types)

developer (various types)

sign / warning

### Examples of Program Stock in 8023

valve / various types

bellows / miscellaneous

switch / pressure

gauge / (various types)

lens / blank

bar / metal

plate / metal

bar / aluminum

sheet / metal

angle / structural

beam / structural

channel / structural

Furnaces and accessories / miscellaneous

### Examples of Furniture:

chair / rotary

desk / flat top

desk / l-unit

cabinet / hutch

credenza / office

table / office

## ATTACHMENT 6-1

partition / free standing

### Examples of Flight Hardware are:

EEE components such as resistors, diodes, capacitors, integrated circuits and printed circuit boards;  
all configurations of fasteners, connectors, raw materials, flight assemblies and subassemblies, wire, cable etc.,

The list is extensive and you can search by type on the FHSRS (<http://FHS>)

The vast quantity of these items are stored at and all of them are managed out of building 4723.

### Examples of Custodial Storage:

ECN	Description
0103011	STAND CALIBRATION
0264869	SHIPPING AND STORAGE CONTAINER
0536106	POWER SUPPLE, OWS SOLAR ARRAY
0546704	CONTAINER, TEST OFFGASSING
0679209	CRANE, GANTRY
1287046	CHAMBER VACUUM
1533350	RIM UNIT
G083204	EXTENSION UNIT
	Natural Buoyancy System items at Int 21
	Rocket Engines
	SSME test Load cells

### DISPOSAL:

Most, if not all, of these items will at the end of their useful life be processed through disposal.

A more detailed list of warehoused items will be provided in the Reading Room

**ATTACHMENT 6-1**

**2.6.10 Furniture Assets List**

National Stock Number	Item Description	Type (Contemporary/ Executive)	Condition (New/Used)	Beginning Quantity	Number Issued	Number Added	Ending Quantity	Comments
7110-00-497-2370	5 Dwr Vertical	Contemporary	New	66	-1	0	65	
7110-00-L66-7948	2 Dwr File	Contemporary	New	156	0	0	156	
7110-00-L66-7960	3 Shelf Bookcase	Contemporary	New	62	-6	0	56	
7110-01-015-1361	Single Ped Desk	Contemporary	New	5	0	0	5	
7110-00-L66-7823	5 Ft Overhead	Contemporary	New	8	0	0	8	
7110-00-L66-7825	ADP Desk	Contemporary	New	4	0	0	4	
7110-00-L66-7831	ADP Return	Contemporary	New	2	0	0	2	
7110-00-L66-7710	ADP Return	Contemporary	New	1	0	0	1	
7110-00-L66-7822	ADP Overhead	Contemporary	New	10	0	0	10	
7110-01-017-8952	Secretary Return	Contemporary	New	17	0	0	17	
7110-01-339-3396	Printer Stand	Contemporary	New	36	0	0	36	
7110-01-262-1890	2 Dwr Mobile	Contemporary	New	10	0	0	10	
7110-01-369-1944	ADP L-Unit	Contemporary	New	27	0	0	27	
7110-01-208-0719	Computer Table	Contemporary	New	14	0	0	14	
7110-01-247-6136	Computer Table	Contemporary	New	25	0	0	25	
7110-00-L66-7950	Hutch	Contemporary	New	100	0	0	100	
7110-00-L66-7957	Task Light	Contemporary	New	100	0	0	100	
7110-00-L66-7956	Center Dwr	Contemporary	New	100	0	0	100	
7110-00-L66-7961	Tackboard	Contemporary	New	100	0	0	100	
7110-00-L66-7946	23x28 Ped	Contemporary	New	100	0	0	100	
7110-00-L66-7988	28x28 Ped	Contemporary	New	100	0	0	100	
7110-00-L66-7952	Right Return	Contemporary	New	100	0	0	100	
7110-00-L66-7951	Desk, Hon	Contemporary	New	100	0	0	100	
7110-00-L66-7987	Hutch Doors	Contemporary	New	100	0	0	100	
7110-00-113-0509	5 Ft Table	Contemporary	New	7	0	0	7	
7110-00-113-0454	6 FT Table	Contemporary	New	63	0	0	63	
7110-01-362-7042	Storage Credenza	Contemporary	New	56	0	0	56	
7110-00-L66-7954	Desk Chair	Contemporary	New	0	0	0	0	
7110-00-L66-8020	Ergo Keybd Tray	Contemporary	New	0	0	0	0	
7110-00-L66-8045	48 In Round Table	Contemporary	New	1	0	0	1	
7110-00-L66-7914	Dbl Ped Desk	Contemporary	New	42	0	0	42	
7110-00-L66-7913	Comp Credenza	Contemporary	New	3	0	0	3	
7110-00-128-0546	3 Ft Strg Credenza	Contemporary	New	0	0	0	0	

**ATTACHMENT 6-1**

7110-00-L66-6912	5 Dwr Lateral	Contemporary	New	1	0	0	1
7125-00-764-6141	2 Dr Strg Cabinet	Contemporary	New	0	0	0	0
7110-00-L66-7903	Inspire Chair	Contemporary	New	0	0	0	0
7195-01-377-7794	Costumer	Contemporary	New	80	0	0	80
7110-01-195-6403	Printer Stand	Contemporary	Used	13	0	0	13
7110-01-247-6136	Computer Table	Contemporary	Used	10	0	0	10
7110-00-L66-7709	ADP Desk, 6 Ft	Contemporary	Used	12	0	0	12
7110-00-L66-7708	ADP Overhead, 6 Ft	Contemporary	Used	5	0	0	5
7110-00-L66-7710	ADP Return, 6 Ft	Contemporary	Used	3	0	0	3
7110-00-L66-7958	Storage Credenza	Contemporary	Used	3	0	0	3
7110-00-L66-7988	2 Dwr File	Contemporary	Used	5	0	0	5
7110-00-L66-5495	5 Dwr Vertical	Contemporary	Used	33	0	0	33
7110-00-L66-7659	Dbi Ped Desk	Contemporary	Used	10	0	0	10
7110-00-L66-7915	Dbi Ped, Overhang	Contemporary	Used	13	0	0	13
N/A	ADP Desk, 5 Ft	Contemporary	Used	5	0	0	5
N/A	ADP Hutch, 5 Ft	Contemporary	Used	6	0	0	6
N/A	Conference Table	Executive	Used	1	0	0	1
N/A	Dbi Ped Desk	Executive	Used	10	0	0	10
N/A	Bookcase	Executive	Used	3	0	0	3
N/A	Secterial Desk, L & R	Executive	Used	2	0	0	2
N/A	2 Dwr Lateral File Cabinet	Executive	Used	8	0	0	8
N/A	5 Dwr File, Brown	Executive	Used	9	0	0	9
N/A	2 Dwr File, Brown	Executive	Used	33	0	0	33
N/A	Chairs	Executive	Used	16	0	0	16
N/A	Stack Chairs, Purple	Executive	Used	18	0	0	18

## ATTACHMENT 6-1

### 2.7 Move Services

#### 2.7.1 Move Services (property)

Move Services	FY98	FY99	FY00	FY01
Furniture Moves (i.e. single desk, single file cabinet, etc.)	2,399	5,900	4,280	3,906
Pieces of Furniture (i.e. people and special events)	45,473	104,734	94,519	91,511
Property Transfer Moves (i.e. supplies and equipment)	18,813	31,442	30,367	31,618
<b>Total</b>	<b>66,685</b>	<b>142,076</b>	<b>129,166</b>	<b>127,035</b>

#### 2.7.2 Furniture

STANDARD NUMBER	MOVE TYPE	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
1	Executive Wood Furniture Seat	250	271	314	152	159	108	103	25	241	293	220
2	Contemporary Metal Furniture Seat	500	542	628	304	318	216	206	50	482	586	580
3	Automated Data Processing (ADP) Unit Seat	1300	1386	1571	612	646	437	417	103	966	1174	1128
4	Modular Systems Furniture Seat	50	70	114	152	159	108	103	25	241	293	550
5	Modular Systems Furniture Reconfigured Seat	25	35	50	76	79	54	51	12	120	146	322
6	Boxes Only	250	271	314	152	159	108	103	25	241	293	260

**ATTACHMENT 6-1**

7	Office Conference Seat	50	54	62	30	30	20	20	4	48	58	56
8	Meeting-Room Conference Seat	25	27	31	15	15	10	10	2	24	29	28
9	Executive Reception Area Seat with Loveseat	25	27	31	15	15	10	10	2	24	29	28
10	Executive Reception Area Seat with Wingback Chairs	25	27	31	15	15	10	10	2	24	29	28
<b>Total Moves</b>		<b>2500</b>	<b>2710</b>	<b>3146</b>	<b>1523</b>	<b>1595</b>	<b>1081</b>	<b>1033</b>	<b>250</b>	<b>2411</b>	<b>2930</b>	<b>3200</b>

2.7.3 Move Types

	FY91	FY92	FY93	FY94	FY95	FY96	FY97	FY98	FY99	FY2000	FY2001
<b>PEOPLE MOVES</b>	2500	2710	3146	1523	1595	1081	1033	250	2411	2930	3533

	FY99	FY2000	FY2001	FY2002
<b>REORGANIZATION MOVES</b>	1- 2300 people	1-700 people 1-150 people	1-1100 people	
<b>CONFERENCE ROOM MOVES</b>			45	
<b>SYSTEMS/MODULAR RECONFIGURATIONS</b>	55	40	35	23

	FY98	FY99	FY00	FY01
<b>Move Services</b>				
Furniture Moves (i.e. single desk, single file cabinet, etc.)	2,399	5,900	4,280	3,906
Pieces of Furniture (i.e. people and special events)	45,473	104,734	94,519	91,511
Property Moves (i.e. supplies and equipment)	18,813	31,442	30,367	31,618
<b>Total</b>	<b>66,685</b>	<b>142,076</b>	<b>129,166</b>	<b>127,035</b>

66

**ATTACHMENT 6-1**

<b>2.7.4</b>		
<b>CENTER-SPONSORED SPECIAL EVENTS (FIXED PRICE)</b>		
<b>TIMEFRAME</b>	<b>EVENT</b>	<b>*NUMBER OF ITEMS UTILIZED</b>
March 2001	Center Director All Hands	1548
	(Annual) Health & Fitness Expo	5
April 2001	Protocol	991
	(Annual) Earth Day	50
	Protocol	260
May 2001	Community Leaders Breakfast	632
June 2001	Protocol	12
	(Annual) NASA/MSFC Honor Day Awards	71
	Community Leaders Breakfast	281
October 2001	Protocol	16
	Protocol	33
	Center Director All Hands	60
	(Annual) Combined Federal Campaign	4
	Protocol	19
December 2001	(Annual) MSFC Holiday Reception	727
<b>EVENTS REQUIRING MINIMUM SUPPORT</b>		
	(Annual) NASA Retiree Dinner	**
	AIAA E-Teams	**
	Marshall Management Association	**
	Snoopy Awards	**
<b>NOTE</b>		
(1) * Number of items includes tables, chairs, podiums, and any other special event furnishings		
(2) **No data available		
(3) (Annual) One time per year event		
(4) Events other than (Annual) happen 1-6 times per year		

**2.7.5 Center Special Events Listing**

(A) = Annual -- one time event  
 All Other Events -- 1-6 times per year

**ATTACHMENT 6-1**

EVENT
(A) MSFC Holiday Reception
(A) NASA Retiree Dinner
(A) Combined Federal Campaign
(A) Health and Fitness Expo
(A) Earth Day
(A) NASA/MSFC Annual Honor Day Awards
Center Director All Hands Meetings .
Community Leaders Breakfast
AIAA E-Teams
Marshall Management Association
Protocol
Snoopy Awards

2.7.6 SPECIAL EVENTS (NOT LISTED ON CENTER SPECIAL EVENTS LISTING) IDIQ		
TIMEFRAME	EVENT	*NUMBER OF ITEMS UTILIZED
February 2001	Black History Month	288
	Lab Celebration	990
	Department Celebration	2953
	New Badges	15
	Farewell Reception	372
	Sci-Quest	40
	Organization Celebration	4
March 2001	NSSTC Open House	113
	Retirement	925
	Meeting ED36	6
	United Space Alliance - All Hands	230
	Meeting FD21	117
	Moon Buggy Race	150
	Easter Egg Hunt	5
April 2001	VIP Luncheon	4
	Panoply Loan Out	610
	Meeting ED40	180
	Botanical Gardens Loan Out	225
	Meeting with Contractor	10

**ATTACHMENT 6-1**

	Meeting ED01	468
	Hispanic Heritage Celebration	124
	Fluids Workshop TD	42
	Space Craft Luncheon	99
	Health Fair	416
	Book Fair	20
May 2001	Safety Program	10
	Safety Celebration Rocketdyne	436
	Standdown X-34	214
	Kindergarten Graduation	8
	Meeting MSFC Technology Days	5
	Sci-Quest Meeting	42
	Retirement Party	695
June 2001	Meeting ED20	108
	Summer Student Workshop	100
	Procurement Awards and Picnic	172
	Fish Fry TD71	350
July 2001	Industry Briefing	4
	Summer Intern BBQ	363
	Science Directorate Awards and Picnic	2644
	IFMP Steering Committee	6
	Million Hours Celebration TD	1639
	Farewell Reception	165
	NASA Sharp	62
	LRV History Chat Heritage Gallery	50
August 2001	Safety Bowl	260
	Logistics Picnic	758
	Luncheon ED26	146
	Book Fair	14
	*Family Fun Day	3341
September 2001	Safety Bowl	54
	Dignitary Visit	8
October 2001	Safety Day	242
	Safety Day Breakfast	190
	Safety Bowl	58
	Safety Day Booth	4
	Fire Prevention Week	4
	Meeting Image Team	9
	Co-op Luncheon	160
	Ballet Concierto de Puerto Rico	14
	Blood Drive	100
	Lunch with Center Director	4

**ATTACHMENT 6-1**

	Chili Challenge	80
	Fall Cookout ED26	184
	Student Launch Initiative	380
	Work Shop ED	54
November 2001	4200 Christmas Tree	22
	Reception NASA AA	18
	Support Contractor Thanksgiving Luncheon	112
	Reception Holiday	336
	Co-op Luncheon	203
	Support Contractor Thanksgiving Luncheon	140
	Support Contractor Pizza Party	6
	Reception AD02	4
	Blood Drive	60
	Nut Sale	17
	Support Contractor Thanksgiving Luncheon	520
	Appreciation Luncheon	292
	Day Care Thanksgiving Luncheon	288
	NSSTC Conference	9
December 2001	Support Contractor Holiday Luncheon	154
	Holiday Luncheon CFO	119
	Day Care Holiday Program	8
	Open House Center Operations	8
	Holiday Luncheon AD21	136
	Lunch with Center Director	6
	Holiday Luncheon ED	188
	Holiday Luncheon TD71	572
	Congressman Visit/NSSTC	16
	Internal Job Fair	427
	Book Fair	22
	SLI Briefing	429
	Contractor Meeting	1
	Holiday Luncheon TD01	296
	Holiday Luncheon Shuttle	220
	Support Contractor Holiday Luncheon	56
	Support Contractor Holiday Luncheon	304
	CAER Party	1
	Holiday Luncheon ED33	115
	Procurement Awards	118
January 2002	FIRST Robotics -- Int. 21	54
	Blood Drive	54
NOTE		