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| AWARD/CONTRACT | 1 THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350) ▶ | RATING | PAGE 1 | OF 42 PAGES |
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| | | |
|---|--|---|
| 2. CONTRACT (Proc. Inv. Ident.) NO. ARC-0520837 | 3. EFFECTIVE DATE Ref. Block 20C | 4. REQUISITION/PURCHASE REQUEST/PROJECT NO. |
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| 5. ISSUED BY National Science Foundation Division of Contracts & Complex Agreements (DCCA) 4201 Wilson Boulevard, Suite 475 Arlington, Virginia 22230 | 6. ADMINISTERED BY (If other than Item 6) CODE |
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|---|---|
| 7. NAME AND ADDRESS OF CONTRACTOR (No. street, county, state and ZIP Code) VECO USA, INC. 9000 E. NICHOLS AVE. SUITE 250 CENTENNIAL, COLORADO 80112 | 8. DELIVERY <input checked="" type="checkbox"/> FOB ORIGIN <input type="checkbox"/> OTHER (See below) |
| | 9. DISCOUNT FOR PROMPT PAYMENT N/A |
| | 10. SUBMIT INVOICES (4 copies unless otherwise specified) TO THE ADDRESS SHOWN IN: Ref. G.3.1.2 |

| | |
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| 11. SHIP TO/MARK FOR ATTN: Mr. Simon Stephenson, OD/OPP 4201 Wilson Boulevard, Suite 755S Arlington, Virginia 22230 | 12. PAYMENT WILL BE MADE BY National Science Foundation Division of Financial Management 4201 Wilson Blvd, Ste 575, Arlington, VA 22230 |
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| 13. AUTHORITY FOR USING OTHER FULL AND OPEN COMPETITION: <input type="checkbox"/> 10 U.S.C. 2304(c)() <input type="checkbox"/> 41 U.S.C. 253(c)() | 14. ACCOUNTING AND APPROPRIATION DATA 14010000 5205 02XX 2542 \$1,000,000 |
|--|---|

| 15A. ITEM NO. | 15B. SUPPLIES/SERVICES | 15C. QUANTITY | 15D. UNIT | 15E. UNIT PRICE | 15F. AMOUNT |
|---------------|--|---------------|-----------|-----------------|---------------------------------|
| 1 | Arctic Research Support and Logistics Services | | | | TOTAL FUNDED AMOUNT \$1,000,000 |

15G. TOTAL AMOUNT OF CONTRACT ▶ **\$36,308,315**

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CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE

17. **CONTRACTOR'S NEGOTIATED AGREEMENT** (Contractor is required to sign this document and return 3 copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all the services set forth or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award/contract, (b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein. (Attachments are listed herein.)

18. **AWARD** (Contractor is not required to sign this document.) Your offer on Solicitation Number _____ including the additions or changes made by you which additions or changes are set forth in full above, is hereby accepted as to the items listed above and on any continuation sheets. This award consummates the contract which consists of the following documents: (a) the Government's solicitation and your offer, and (b) this award/contract. No further contractual document is necessary.

| | |
|--|--|
| 19A. NAME AND TITLE OF SIGNER (Type or print) <i>William P. Huntington, Vice President/CA</i> | 20A. NAME OF CONTRACTING OFFICER Bart Bridwell |
|--|--|

| | | | |
|--|--|--|---|
| 19B. NAME OF CONTRACTOR <i>WECO</i> (Signature of person authorized to sign) | 19C. DATE SIGNED <i>FEB 2, 2005</i> | 20B. UNITED STATES OF AMERICA BY <i>Bart Bridwell</i> (Signature of Contracting Officer) | 20C. DATE SIGNED FEB - 1 2005 |
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for the OFFICE OF POLAR PROGRAMS, NATIONAL SCIENCE FOUNDATION

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SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS

B1. SCHEDULE

The Contractor (independently and not as an agent of the Government) shall furnish all necessary labor, supplies, materials and equipment (except as otherwise authorized by the Contracting Officer) as required to support the National Science Foundation's Arctic Science Program. Performance shall be in accordance with all provisions and specifications as stipulated herein. The actual services provided shall be determined yearly in accordance with Program Plan accepted annually by NSF (refer to Section F).

B2. CONSIDERATION (ESTIMATED COST PLUS FIXED FEE)

| CLIN | PERIOD | ESTIMATED COST | FIXED FEE | TOTAL COST PLUS FIXED FEE |
|--------------|---------------------------------|-----------------------|------------------|----------------------------------|
| 001 | PHASE-IN PERIOD | | | |
| 001.1 | Feb 2005 – May 2005 | US\$ 0.00 | US\$ 0.00 | US\$ 0.00 |
| 002 | CORE PERIOD | | | |
| 002.1 | Jun 2005 – May 2006 | US | US | US \$10,472,165 |
| 002.2 | Jun 2006 – May 2007 | US | US | US \$12,612,498 |
| 002.3 | Jun 2007 – May 2008 | US | US | US \$13,223,652 |
| 002.4 | TOTAL CORE PERIOD | | | US \$36,308,315 |
| 003 | AWARD TERM PERIODS | | | |
| 003.1 | Jun 2008 – May 2009 | US | US | US \$15,579,146 |
| 003.2 | Jun 2009 – May 2010 | US | US | US \$14,581,434 |
| 003.3 | Jun 2010 – May 2011 | US | US | US \$13,922,056 |
| 003.4 | Jun 2011 – May 2012 | US | US | US \$12,932,198 |
| 003.5 | TOTAL AWARD TERM PERIODS | | | US \$57,014,834 |
| 004 | CONTRACT TOTAL | | | US \$93,323,149 |

B3. COMPENSATION

The costs of performance of this contract are defined as the necessary direct costs incurred during the period of performance of this contract and amounts for appropriate indirect expenses applied in accordance with the organization's approved accounting system and in accordance with paragraph B4 of this section. Allowability and allocability of costs under this contract shall be determined in accordance with Federal Acquisition Regulation (FAR) Part 31 and the terms of this contract.

B4. INDIRECT COSTS

Pending modification(s) to this contract setting forth final indirect cost rate(s) in accordance with this contract's *Allowable Cost and Payment* clause the Contractor shall be provisionally reimbursed for indirect costs at following rates:

| RATE TYPE | COST BASE | BILLABLE | CEILING |
|-----------------------------------|--|----------|---------|
| Headquarters SCA Fringe | Total Labor | | N/A |
| Contract/Field SCA Fringe | Contract/Field Labor Only | | N/A |
| Headquarters Overhead (Non-SCA) | Headquarters Direct Labor Only | | |
| Contract/Field Overhead (Non-SCA) | Contract/Field Direct Labor Only | | |
| G&A | Total Cost Input (Labor, Fringe, Overhead, Other Direct Costs) | | |

The final rate for reimbursement of indirect costs shall be the contractor's actual rate, but in no case shall this rate exceed the ceiling rate (in those instances where one has been identified).

B5. CONTRACT FUNDING

For purposes of payment of cost and pursuant to FAR Clause 52.232-22 "Limitation of Funds," incorporated by reference in Section I, the total amount allotted by the Government to this contract is \$1,000,000. The above allotment covers performance through June, 2005.

Of the amount obligated above, _____ is allotted to cover cost and _____ is allotted to cover fixed fee, for a total incremental funding obligation of \$1,000,000.

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SECTION C – DESCRIPTION/SPECIFICATION/WORK STATEMENT

C1. SCOPE OF WORK

C1.1 The scope of work of this contract is to provide logistics and research support for NSF-sponsored and other projects in the Arctic as directed by NSF. Arctic research activities at NSF are primarily funded through the Office of Polar Programs (OPP) Arctic Sciences Section with oversight of research support and logistics through the Arctic Research Support and Logistics program.

C1.2 The arctic logistics contractor—hereafter referred to as the contractor—will focus on providing operational and logistical functions to NSF-funded research projects, usually based out of United States academic institutions and conducted throughout the Arctic. The contractor will work with NSF, research principal investigators (PIs), other federal agencies, occasionally state agencies, international organizations having agreements with NSF, and organizations that own or manage logistics resources and facilities in the Arctic to provide operational plans to support research projects. Operational plans should effectively accomplish the scientific goals in a safe and efficient manner. The contractor will be responsible for some construction, maintenance, and field camp operation for multiple projects. The contractor will provide NSF with an annual program plan describing the requirements for providing these operational and logistics functions. The contractor will seek to minimize the environmental impact of its work and carry out the work under applicable environmental laws. Permits for installation and use of the sites used by the contractor are the responsibility of the contractor.

C2. BACKGROUND

C2.1 NSF has had a strong presence in the Arctic for decades, largely because of the region's central role in environmental issues related to global climate. In recent years, its importance has increased substantially as model simulations in both global and polar contexts indicate that the Arctic will be the first place on the planet to be significantly impacted by projected climate changes. NSF supports research on the entire Arctic region, including Alaska, Canada, Greenland, Svalbard, Russia, the Arctic Ocean and adjacent seas, the upper atmosphere and near space. Funded projects fall principally within eight major categories: atmospheric science, oceanography, biology, earth science, glaciology, social science, engineering, and science education.

C2.2 The goal of the NSF Arctic Research Program is to gain a better understanding of the Earth's biological, geophysical, chemical, and socio-cultural processes, and the interactions of ocean, land, atmosphere, biological, and human systems. Arctic research is supported at NSF by the Office of Polar Programs (OPP) as well as a number of other disciplinary programs within the Foundation. Coordination across NSF includes the potential for joint review and funding of arctic proposals, as well as mutual support of special projects with high logistical costs.

C2.3 The Office of Polar Programs offers a focused multidisciplinary and interdisciplinary research program that emphasizes the special character of the Arctic for scientific study. The arctic regions are among the most sensitive to environmental change, and have exceptionally long natural climate records, and thousands of years of human settlement. This interplay provides a unique basis for integrated research on global systems and human adaptation.

C2.4 OPP disciplinary programs encompass the atmospheric sciences, biological sciences, earth sciences, glaciology, ocean sciences, and social sciences. Interdisciplinary research in the biosciences, geosciences, and social sciences is linked through the Arctic System Science Program. In addition to supporting research on long-term human/environment interactions, OPP encourages the study of contemporary socioeconomic, cultural, and demographic issues in the changing environment of the post-Cold War world. The Office of Polar Programs also encourages bipolar research (especially glaciology, permafrost, sea ice, ecology, conjugate magnetic field lines, and human factors studies).

C2.5 In 1973 the National Science Foundation's Office of Polar Programs (formerly the Division of Polar Programs) made the decision to consolidate under one management structure the U.S. operation of ice-drilling equipment at both poles and high latitude locations along with the planning for logistical support/coordination of ice

C3.2.1.2 NSF will notify the contractor of proposals granted support. After being notified that a project has been funded, the contractor contacts and works with the PI to develop a support plan. This may require considerable research into options, but usually the PI has some knowledge of these. NSF expects the contractor to develop and implement the most efficient and cost-effective means to provide the requested support and achieve the funded science goals in a safe manner. The contractor will develop an operation plan for each project for review by NSF and the PI.

C3.2.1.3 The contractor should develop an approach to creating operational plans (project plans) that is fully interactive with the PI and NSF so that support activities requested of the contractor by the PI may be easily transmitted to NSF with budget estimates. The contractor is also required to support outreach efforts by researchers and NSF to inform and involve Arctic residents of research plans and results. The approach to developing project plans should have the capability for modifications to planned support activities as identified by NSF, the contractor or investigator as well as notification to all parties of the final, approved level of support for the project plan.

C3.2.2 Annual Program Plan

C3.2.2.1 The contractor will submit an annual program plan for each contract year describing anticipated tasks and expected costs. The program plan will include activities necessary in support of science projects, as laid out in project plans, as well as additional tasks in support of science, such as facilities needs and coordination of air support over large areas and multiple projects. Modifications to the program plan are expected in response to changing plans and circumstances. The contractor will be in frequent contact with the RSL program officer at NSF to make these adjustments.

C3.2.2.2 OPP grants new awards each year, but it is expected that the overall portfolio of projects will evolve only slowly during the term of this contract. Project size and duration varies; however, projects are expected to continue in similar locations throughout the Arctic. As projects end and new projects begin, the geographic balance may change somewhat, and changing science themes and foci will tend to bring with them new requirements and challenges. The contractor should have the capability to evolve with the science program.

C3.2.3 Evaluation and Reporting

C3.2.3.1 The project plans should provide enough detail to guide all aspects of the contractor's activity in support of the plan, and include elements that will be used to assess performance. The contractor is expected to work with the PI to assess performance, and provide this assessment to the NSF.

C3.2.3.2 The contractor is required to develop and maintain a database capturing the essential requirements of all OPP field projects, regardless of whether they require contractor support, other third party support or no support. In order to do this NSF provides the contractor a file in Adobe Acrobat PDF format of the proposal of the funded projects at the time that a decision on funding is made. This database will provide the basis for much of the reporting required by NSF, such as numbers of projects by geographic region, project locations, project descriptions, and numbers of personnel supported in the field. (Note: The current database is Microsoft Access. The database will be transferred to the new contract and NSF will allow the contractor to make recommendations as to further development and possible migration to a new platform.

C3.2.3.3 The contractor shall provide the program officer with annual reports of 1) program participants at each location, 2) number of flight hours per project, 3) data on telecommunications allocation and usage, and 4) site plans for each field site operated by the contractor that year. Format to be determined after award.

C3.3 Research, Organize and Provide Information

C3.3.1 The contractor shall maintain a strong liaison with the U.S. scientific community and the international Arctic logistics community. This shall include, but not be limited to:

C3.3.1.1 Responding to investigator's inquiries about logistics and research support capabilities.

core drilling. In October 1974 the University of Nebraska-Lincoln (UN-L) established the Polar Ice Coring Office (PICO) under a contract with NSF. PICO was responsible for organizing logistical support for ice coring projects in Greenland.

C2.6 In 1988 the PICO contract was competed and awarded to the University of Alaska-Fairbanks (UAF). This contract essentially continued all drilling and Arctic logistics activities under the previous contract, but PICO's activities expanded to include the logistical support for a number of non-ice coring projects sponsored by NSF and other U.S. government agencies. In 1993 the contract was competed and awarded to UN-L in 1994. This contract separated the ice-core drilling activities (principally conducted in Antarctica) from the Arctic logistics activities.

C2.7 The Arctic Research Support and Logistics (RSL) program was added to the Arctic Sciences Section in 1999 with funding specifically to support research projects in the Arctic, in part in response to a report from the Arctic Research Commission entitled "Logistics Recommendations for an Improved U.S. Arctic Research Capability" (ARCUS, 1997). In December 1999 the RSL program awarded the contract for research support and logistics to VECO Polar Resources. This solicitation is to once again compete the contract for Arctic research support and logistics services.

C3. STATEMENT OF WORK

C3.1 OPP supports a portfolio of approximately 170 projects each year that have a component of field work in the Arctic. Research principle investigators (PIs) choose whether to provide for their own logistics support or use third party support, or a combination. Increasingly PIs have chosen to use NSF's Arctic logistics contractor to reduce the time scientists spend in logistics planning and execution for increasingly complex projects. The geographic breakdown of Arctic research projects is currently:

- 50% Alaska
- 20% Greenland
- 30% Canada, the Arctic Ocean, Russia and Scandinavia

C3.1.1 The contractor must provide an administrative structure, staff and office environment to meet the administrative requirements of this contract. The administrative and technical staff should have the expertise to implement or supervise each element laid out in the statement of work.

C3.1.2 The contractor shall establish a performance program using qualitative and quantitative factors to assist in evaluating performance and documenting systematic improvements to services. Reports from the performance program will be used in NSF's determination of performance awards and in meeting NSF's reporting requirements, e.g. the Government Performance and Results Act (GPRA).

C3.2 Logistics Planning For Science Projects

C3.2.1 Project Support

C3.2.1.1 The contractor shall work within the cycle of NSF's grant award process. For the Arctic Sciences Section, this is described in the program solicitation (NSF 03-574). <http://www.nsf.gov/pubs/2003/nsf03574/nsf03574.htm> The Arctic Sciences Section has proposal deadlines/target dates on February 15 and August 30 of each year and occasionally may have other deadlines for special announcements. Researchers are expected to prepare a proposal to NSF that is a complete description of the work to be undertaken and the cost to complete it. NSF recognizes that it is not always possible to develop a complete operational plan at the time of proposal preparation; however, the overall scope of support should be known and included in the proposal to undergo merit review. The contractor shall be available for informal discussions with the PI concerning project feasibility and to assist with the development of cost estimates prior to submission of the proposal to NSF. Approximately 250 proposals are received each year, but this number varies widely. Currently only about 25% request the contractor to prepare a summary of the support requirements. Approximately 100 new awards are made. At the time the PI writes the proposal they will have chosen which aspects of the project they will do themselves and which will require assistance.

C3.3.1.2 Maintaining an informative web site on current capabilities, with examples of recent work completed, and ongoing projects

C3.3.1.3 Attending appropriate scientific workshops and conferences.

C3.3.1.4 Recommending improvements to services resulting from advances in technology or changes in scientific requirements identified by researchers.

C3.3.1.5 Coordination of planning with appropriate national and international organizations.

C3.3.2 As noted above, the contractor is expected to thoroughly research options for projects operating in new areas to provide a safe and efficient approach to supporting the science program. In the process of planning for fieldwork throughout the Arctic the contractor will develop a significant set of data about resources. This information should be collected and organized for long-term reuse by other projects. Where appropriate, information should be made readily available, for example on the contractor's website to answer frequently asked questions. The contractor will maintain and continue to develop a geographic representation of where projects have been, are, or are planned in the near future.

C3.3.3 Another avenue to storage and dissemination of logistical information is through the Arctic Logistics Information and Support (ALIAS) website maintained by the Arctic Research Consortium of the U.S. (ARCUS). The contractor shall work with ARCUS and ALIAS to share information and improve the resources available to the research community.

C3.4 Logistics Operations

C3.4.1 The core activity of this contract is to position science teams and their equipment, as well as provide supporting personnel and infrastructure as dictated by the research needs. As stated above, a key task is developing a clear and coherent project plan. The contractor will be responsible for managing the execution of the plan working in close coordination with the science team. Excellent communication skills are required as well as logistical expertise to assess both performance and safety risks, recognizing the demanding physical environment.

C3.4.1.1 The contractor will work with NSF, individual researchers, other government agencies, other logistics providers (including international) to provide operational support for individual and group research projects throughout the Arctic. The contractor will track logistics data on all OPP/Arctic funded research projects, and will provide operational plans and cost estimates for those they are tasked to support, conduct research support activities for projects selected by NSF, attend appropriate scientific workshops and conferences, maintain an informative web page on current capabilities and activities, and document improvements to services in the context of the Government Performance and Results Act.

C3.4.1.2 NSF usually requires investigators to use commercially scheduled air service to transport personnel and field supplies as close to the research site as possible using funds awarded in the research grant. The contractor will be required to transport scientific personnel and their supplies from that point to the field location and support the researchers at the site. In the case of activities in Greenland, the point of departure is Stratton Air Base, Scotia, NY. In the case of Alaska, several commercial airports may be used depending on the location of the fieldwork. Research in other locales should be conducted using the same model. Typical components tasked to the contractor are:

C3.4.1.2.1 Movement of people and supplies to, from, and within the Arctic;

C3.4.1.2.2 Installation and operation of field camps (food, shelter, communications, health and safety measures, etc.);

C3.4.1.2.3 Development, upgrade, management, maintenance and operation of facilities (e.g. Summit, Greenland) in support of science;

C3.4.1.2.4 Arranging permits and cooperation with local organizations and residents.

C3.4.2 Alaska

C3.4.2.1 Projects occur throughout the Arctic with a high concentration in Alaska. Of the 88 research projects conducted throughout Alaska in 2003, 57 received support from the logistics contractor at a variety of locations.

C3.4.2.1.1 Because of the commercial operators and infrastructure available throughout Alaska, the contractor will often find local providers of support (room/board, aviation, boats, ground transportation including truck rental). It is the contractor's responsibility to ensure suitability and performance of these providers. Where local providers are not used, the contractor will be required to support equipment and service requests at field camps for individual projects anywhere in Alaska, as well as providing full support, including camp provision and management, for large full-season remote camps throughout Alaska. Remote field camps have at various times been established at Happy Valley (adjacent the Dalton Highway), Ivotuk (at the foot of the Brooks Range), and Council (Seward Peninsula). Necessary field gear to support activities at remote sites is owned by NSF and stored in Alaska and Colorado.

C3.4.2.1.2 In Alaska, the majority of research projects occur in the Barrow region and at Toolik Field Station (TFS), both on the North Slope. Because of intensive research at these locations, two other third-party logistics providers are in place. Nevertheless, the contractor will provide some services near Barrow and at TFS.

C3.4.2.2 Barrow Region

The Barrow Arctic Science Consortium (BASC), through a cooperative agreement with OPP, provides most aspects of support at or near Barrow and Atkasuk. This includes accommodation, local surface transportation and permitting. The logistics contractor, however, takes the lead for providing air logistics throughout the North Slope because these services often can be consolidated throughout the North Slope region. Services not provided by BASC may be requested from the contractor and the contractor is expected to develop a working relationship with BASC to facilitate coordination.

C3.4.2.3 Toolik Field Station

Through a cooperative agreement between NSF and the Institute of Arctic Biology, University of Alaska, Fairbanks, NSF supports the basic operation of Toolik Field Station (TFS), a facility located just north of the Brooks Range on the Dalton Highway. However, the contractor will again be responsible for aviation support (see below) and potentially a significant degree of construction support for field camp upgrades. This will principally involve major construction projects, usually \$100,000 and above. It is also efficient to have the contractor work with IAB to complete smaller maintenance tasks because the contractor may be able to provide the skill mix often required to complete these tasks in combination with their other tasking. The contractor will be required to work closely with IAB to develop a task management system to complete smaller maintenance tasks at TFS.

C3.4.3 Greenland

C3.4.3.1 NSF has a 30-year history of supporting a significant research program in Greenland. In 2003, NSF supported over 40 projects in or near Greenland. Most projects continue to utilize Summit Station, the site of the Greenland Ice Sheet Project Two (GISP2), at approximately 10,600 feet elevation. The logistics contractor is tasked with operating the Station on a seasonal or year-round basis, depending on research needs. This involves providing for all needs, including transportation, housing, food services, safety, health, science technicians, power and water production, construction and remote and local communications. In developing facilities and research support at Summit Station, the logistics contractor must work with individual projects and a science management office funded by OPP that coordinates scientific activities at the station (see <http://www.hwr.arizona.edu/GEOsummit/>)

C3.4.3.2 Additional projects work elsewhere on the Greenland Ice Sheet and the remainder operate on the coastal tundra and surrounding seas. Nearly all projects are supported from a logistics base at Kangerlussuaq, although some projects also stage from the U.S. Air Force facilities at Thule Air Base (TAB). Access to TAB is controlled by USAF Space Command (Colorado) and the contractor will coordinate closely with Space Command to obtain approval for access and activities.

C3.4.3.3 Normal access to Greenland, and between Kangerlussuaq and Summit, is provided by LC-130s operated by the New York Air National Guard (NYANG). Operations in Kangerlussuaq involve leasing office and warehouse space, maintaining a field equipment inventory, and contracting for lodging and food services in Kangerlussuaq.

C3.4.4 Canada, the Arctic Ocean, Russia and Scandinavia

C3.4.4.1 Field support during the Arctic “spring” in the central Arctic Ocean north of Ellesmere Island in the Canadian Archipelago is required at sites on the sea-ice to support oceanographic and atmospheric observations. While this involves only a few projects each year it is a very challenging environment and costly endeavor with a narrow window (late March to mid-May) of feasible air logistics. Projects are based out of Alert, a key Canadian Forces Station (CFS) facility located on the north coast of Ellesmere Island. No overarching agreement exists between NSF and CFS for use of facilities at Alert, but CFS has granted limited access to NSF projects with appropriate advance notice, and on the basis of replacing any aviation fuel used by the NSF projects. The contractor will coordinate this replacement of fuel as part of its role in coordinating the C-130 support to the Greenland region.

C3.4.4.2 There is an increasing requirement to support logistics in Russia. Most science projects develop links to academic counterparts in Russia and these links often provide access to critical logistics services and local experience. However, significant logistical challenges remain, including transportation of equipment and scientific supplies in and out of Russia and arranging appropriate subcontracting to execute the work. The contractor will be tasked to provide these services. This may take the form of subcontracting directly with Russian institutions for onsite support, relieving the science team of an often significant procurement challenge.

C3.4.4.3 In Canada, NSF funded research teams continue to use the Canadian Government’s Polar Continental Shelf Program (PCSP), but the logistics contractor picks up special purchases not available through PCSP, e.g. boats for local use in areas where PCSP is not operating in a given year, and also provide logistics where not available from PCSP.

C3.4.4.4 To date, the logistics contractor has not been tasked to provide support in Scandinavia other than satellite communication equipment, but must be prepared to provide logistics support in the region if required.

C3.5 Procurement and Inventory Management

Currently NSF equipment is stored in Greenland, Alaska, Russia, Canada and at offices in Colorado. A dispersed field equipment storage system is required in order to maintain efficiency, flexibility, and cost-effective support of field programs at widely dispersed sites for projects throughout the Arctic. The contractor should have the capability to design a system to position equipment in the most cost efficient location(s) while maintaining flexibility to place NSF equipment where it will be used in the field. The contractor is tasked with all aspects of inventory management including tracking, shipping and receiving, maintenance, repair, control, and analysis of needs. The current equipment inventory is provided in Attachment 1.

C3.6 Aviation Services

C3.6.1 Provision of aviation services is a critical component of this contract throughout the entire Arctic region. The logistics contractor will acquire, task and provide suitable oversight to cost-effective air providers that are safe in their operation and delivery of service. The logistics contractor’s acquisition process will evaluate suitable factors to determine the best services, for example, safety, cost and approach to mission requirements.

C3.6.2 The contractor will be tasked to provide helicopter support in a wide variety of places to establish and support projects involving large groups requiring full summer-season use, as well as individual projects requiring intense operational periods for access to sample sites or deployment and demobilization of field camps. A plan should be developed each year that shows how cost savings could be implemented through shared use aircraft at multiple sites.

C3.6.3 Delivery of personnel and cargo to Kangerluassuaq is accomplished using both scheduled commercial aircraft and LC-130s operated by the New York Air National Guard (NYANG) LC-130s. The contractor will

maintain a strong liaison with the NYANG and attend its Arctic Planning Conference annually. The contractor will be expected to work directly with the NYANG to plan and implement use of the LC-130s for delivery of personnel and cargo. Access to the NYANG is provided by agreement between DOD and NSF and the contractor leads in coordinating this airlift for the science users in Greenland. For some tasks the contractor also enters into service contracts for small ski-equipped fixed-wing aircraft, used to service the Summit research station. Access to NYANG LC-130's has been arranged through the USAF Air Mobility Command (AMC). The contractor will be expected to work directly with the NYANG to plan and implement use of the LC-130s for delivery of personnel and cargo to/from/within Greenland, Canadian Forces Station Alert and parts of the Arctic Ocean and provide tasking of NYANG through the USAF's Special Assignment Air Mission (SAAM) process. NYANG has a considerable presence in Kangerlussuaq because it conducts LC-130 training in Greenland. The contractor is tasked to run the Raven training facility used by the NYANG. Raven is two landing areas, one a groomed skiway and another an unprepared strip. The contractor is tasked to maintain and mark the skiway. Raven is also used by the NYANG to conduct survival training.

C3.6.4 The Contractor will be tasked to provide aviation technical services, principally the packaging of cargo according to international transportation standards, and day-to-day loading and unloading of passenger and cargo on helicopters.

C3.7 Facility Management

The two principle facilities requiring management under this contract will be Summit Station, Greenland and Toolik Field Station, Alaska.

C3.7.1 Summit Station, Greenland

C3.7.1.1 At Summit the contractor will be tasked to develop or update existing site plans for primary systems and services. The current site plan is shown in Attachment 2, and is available as an AutoCAD file. Primary systems, including structures, power, water will be documented and an inspection and maintenance plan developed for each. Operational procedures for both summer and winter will be developed, updated, and made available for review by NSF as required.

C3.7.1.2 NSF has recently awarded a science grant to make long-term observations at Summit commencing in 2004 for a five-year period. A long-range plan for science at Summit is currently under development and the contractor will be tasked to continue the long-range planning process.

C3.7.2 Toolik Field Station, Alaska

The logistics contractor will also provide construction support for NSF at Toolik Field Station. In the past this has included provision of new laboratories, dormitories, bathroom facilities, and the power plant. IAB has developed a long-range development plan and it is anticipated that the logistics contractor will have the lead role in construction associated with implementing the plan. (see http://www.uaf.edu/toolik/Reports/Report02/10-year-plan-tfs_files/frame.htm). Activities will include design, delivery, construction and installation of additional facilities at TFS. As IAB is the operator of the facility, plans and activities must be coordinated closely with IAB.

C3.7.3 Other Arctic Research Sites

The contractor may also be tasked to establish facilities at remote sites or enhance facilities at existing sites anywhere in the Arctic. The contractor must have the capability to implement construction projects that provide improvements or new facilities for logistics or science laboratories at remote or permanent sites in a variety of arctic locations. Proposals submitted to OPP or in response to other announcements of opportunity at NSF may also require installation of remote and/or autonomous instrumentation in a wide variety of arctic locations. The contractor should have the capability to present a plan for providing the expertise to design, install, operate, and maintain scientific instrumentation in a variety of arctic environments.

C3.8 Information Technology

C3.8.1 Communication between research sites and between home institutions and research sites is an increasingly important component of arctic research. Transfer of data from remote/autonomous field instruments to operators who can manage the data collection/transfer remotely or respond in a timely fashion to maintenance requirements is essential. In the current contract, two field stations, TFS and Summit, are being connected to the Internet through fiber optic cable and an Earth station, respectively. One remote station at Prudhoe Bay is connected through a cell phone. Researchers at sites with an existing infrastructure sometimes can arrange for electronic communication. The contractor will be tasked to increase the connectivity of remote field stations, environmental observatories, and autonomous instruments to the Internet so that investigators have access to data at their home institutions and so that data may be shared between researchers working at separate locations in the Arctic.

C3.8.2 The contractor will manage an inventory of government-owned satellite mobile phones to ensure all research teams working in remote areas have access to this technology for safety and business operations.

C3.9 Risk Management

C3.9.1 Effective risk management will occur both at the program level and within the contractor's own operating procedures and planning. Risk, particularly in terms of safety, is a critical concern throughout all aspects of the program and the contractor is expected to have a functioning safety approach to match the work requirements. At the program level the contractor will evaluate tasks, or the collection of tasks, to identify areas of risk and make recommendations to the NSF and the scientist to be supported on how risks can be reduced.

C3.9.2 The contractor will be tasked to provide approximately three sessions each year of Arctic Field Safety training to be made available to the NSF research community. NSF does not have its own curriculum, so the contractor will have to develop one, working with the science community, or adopt one that is available from a third party.

C3.9.3 The contractor will collect, but not process, medical information as part of a medical evaluation conducted by the National Science Foundation for scientist and support staff that deploy to Greenland for more than one week.

C3.9.4 The forms are filled out by individuals and returned to the contractor and forwarded on to NSF for evaluation.

C3.9.5 The contractor is expected to evaluate the medical risk at each site that the contractor is tasked to support and recommend approaches to the NSF that would reduce risk.

C3.10 Quality Management

The contractor will conduct after-operations reviews where appropriate to evaluate the quality of previous support and plan support for future research projects. The reviews must be documented. If this process determines areas of weakness the contractor will make written recommendations on process improvements. The contractor should have the capability to provide personnel who understand the basic scientific issues that drive logistics needs and who try to match the requirements identified by the investigators and NSF.

C3.11 External Coordination

C3.11.1 The conduct of research in the Arctic often requires permission from at least one governmental institution to provide access to land or facilities. The contractor will be responsible for obtaining all permits for activities of the contractor in support of research programs. Researchers are responsible for obtaining permits to conduct their research projects. The contractor, however, should provide information to researchers that will facilitate their application for required permits. The contractor should have the capability to compile a list of permitting procedures and requirements for the North Slope of Alaska, Greenland, and northern Canada.

C3.11.2 The contractor will coordinate with other Federal agencies and other NSF contractors, where applicable, to implement operational planning of NSF supported projects.

C3.11.3 The contractor is required to conduct activities in a manner consistent with the *Principles for the Conduct of Research in the Arctic* (<http://www.nsf.gov/od/opp/arctic/conduct.htm>.)

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SECTION D – PACKAGING AND MARKING

DI. GENERAL

Unless otherwise specified, all items shall be packaged and marked in accordance with normal commercial practices. If magnetic media is involved, packaging shall be clearly marked identifying the contents as such and with a warning for protection against exposure to magnetic fields or temperature extremes.

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SECTION E - INSPECTION AND ACCEPTANCE

E1. EVALUATION AND ACCEPTANCE

Evaluation and acceptance of services delivered under this contract shall be performed by the Contracting Officer's Technical Representative, or other such person as may be designated elsewhere in this contract or in writing by the Contracting Officer.

E2. FAR CLAUSE INCORPORATED BY REFERENCE

NOTICE LISTING CLAUSES INCORPORATED BY REFERENCE

Federal Acquisition Regulation (48 CFR Chapter 1) Clauses

52.246-5 INSPECTION OF SERVICES – COST REIMBURSEMENT APR 1984

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SECTION F - DELIVERIES OR PERFORMANCE

F1. PERIOD OF PERFORMANCE WITH PHASE-IN PERIOD AND AWARD TERM INCENTIVES

F1.1 This contract's Phase-In Period shall commence on the date of award and expire May 31, 2005.

F1.2 The 36-month core performance period shall commence on June 1, 2005 and expire on May 31, 2008.

F1.3 As an incentive to improve the quality and effectiveness of the work performed the Contractor may earn performance periods as described in the clause titled *Award Term*. Should the Contractor earn and elect to perform in the additional periods, the period of performance shall be extended by twelve (12) months for each of the periods earned, and shall expire May 31, 2009; May 31, 2010; May 31, 2011; and May 31, 2012, respectively.

F2. PROGRAM PLAN

F2.1 The work under this contract shall be carried out in accordance with an annual "Program Plan" developed by the Contractor in consultation with the Contracting Officer's Technical Representative (COTR) and approved in writing by the Contracting Officer.

F2.2 Each Program Plan shall be prepared and submitted in accordance with the schedules, funding levels, guidelines and formats approved by the COTR. In addition to the program plan, the contractor shall provide NSF with such backup information as the Foundation may require. Regarding the Program Plan format for reporting, the Contractor shall utilize a Work Breakdown Structure (WBS) to separate the major elements of work under the contract. Funding for the out-years of a multi-year project shall be estimated to the greatest extent possible. However, actual out-year funding will be subject to negotiation in each individual program plan year. Actual cost elements to be reported shall be developed by the contractor in consultation with the COTR.

F2.3 The Program Plan shall cover the upcoming operation contract year and shall address, but not be limited to, the following:

- Programmatic Goals
- Field Activities
- Staffing and Organization Plans
- Projected Budgets
- Major Planning Activities

F2.4 Proposed changes in objectives or activities that alter the nature of the program as described in the Program Plan, and the impact of such proposed changes, will be provided in writing to the COTR and approved in writing by the Contracting Officer, prior to implementation. All proposed Program Plan changes shall be numbered in consecutive order by contract year.

F2.5 The Contractor may reprogram funds, single actions not in excess of \$40,000 without prior approval, during any Program Plan year. All reprogramming changes shall be reported in the next required period status report.

F3. REPORTING REQUIREMENTS

During the performance of this contract the Contractor shall submit the following reports:

F3.1 Quarterly Progress Report and Financial Statement

F3.1.1 The Contractor shall prepare and furnish Quarterly Progress and Financial Statement reports. These reports shall show the status of all major events and activities identified in the Contractor's approved program plan and shall

report the expenditure of funds for both the period of the report and cumulatively for the entire contract period. The progress report format shall follow the agreed upon WBS structure. Deviation from the expenditure level estimated for each WBS element or sub-element in the approved program plan shall be shown. It shall also present in narrative form a summary of all work performed during the period, including technical status, accomplishments, problems encountered, future plans for the upcoming period, and any action required on the part of the Foundation or another Government agency.

F3.1.2 The report shall be submitted electronically within 15 days after the end of the reporting period. Reports are to be forwarded in the specified number of copies to the following destinations:

| No. of Copies | Addressee |
|---------------|-------------|
| 2 | CO and COTR |

F3.2 Annual Report

F3.2.1 The Contractor shall prepare and submit on an annual basis a report that summarizes the Contractor's performance in each Program Plan year. The report shall identify the strengths and weaknesses in the Program Plan development and implementation. It shall be used to guide NSF and the Contractor in the preparation of subsequent Program Plans, and be prepared in a format following the agreed upon WBS. The report shall also include a summary of key quantitative factors that are used to measure performance in the Contractor's quality assurance program.

F3.2.2. Copies of the report shall be forwarded within 30 days after the end of the Program Plan Year to:

| No. of Copies | Addressee |
|---------------|-------------|
| 2 | CO and COTR |

F3.3 Project Reports

F3.3.1 Reports regarding work undertaken in support of each individual research activity shall be prepared. These reports shall include, but not be limited to, project costs, sketch maps, engineering plans, planning schedules and diaries of event resource allocations and use statistics. For multi-year projects, reports shall be provided annually, and on completion of the project.

F.3.3.2 Copies of this report shall be forwarded within 30 days after the end of the Project to:

| No. of Copies | Addressee |
|---------------|-----------|
| 1 | COTR |

F3.4 Property Reporting

a. Definitions – As used in this Subsection F3 only:

1. **Accountable property** means any item of property acquired by capital lease, or with an acquisition cost of \$5,000 or greater with a useful life of two years or more.

2. **Acquisition cost** means the sum of costs for design, labor, materials, transportation, and related indirect or overhead expenses (including the capitalized cost of any expansions, extensions, conversions, additions, alterations and improvements to property) as calculated in accordance with Federal Accounting Standards Advisory Board Statement of Federal Financial Accounting Standards (SFFAS) No. 6, titled "Accounting for Property, Plant, and Equipment," except that software acquisition cost shall be calculated using the "National Science Foundation Software Property Asset Cost Worksheet" (see Attachment 3). Consistent with SFFAS No. 6, expansions, extensions, conversions, additions, alterations and improvements to property shall be capitalized in accordance with the "National Science Foundation General Property, Plant and Equipment (PP&E) Policy on Depreciation of Improvements" (see Attachment 4).

3. **Acquisition date** means the Federal Government Fiscal Year that an item of property was accepted for use by the original contracting activity (either government or commercial).

4. **Assignable lease** means leases of property that are not otherwise considered capital leases that reserve the rights of NSF, the contractor, or subcontractor at any tier to unilaterally assign the lease to NSF or another organization selected by NSF.

5. **Capital lease** means leases of property with minimum lease payments of \$5,000 or greater, the leased property has a useful life of two years or greater, the minimum lease payment is being reimbursed to the contractor as a direct cost, and the lease substantially transfers all the benefits and risks of ownership to NSF. Leases that meet one or more of the following criteria shall be considered to substantially transfer all the benefits and risks of ownership to NSF.

(a) The lease transfers ownership of the property to the Contractor at the end of the lease term.

(b) The lease contains an option for the Contractor to purchase or otherwise acquire the property at a bargain price.

6. **Capitalized property** means any item of property acquired by capital lease with a minimum lease payment of \$25,000 or greater or with an acquisition cost of \$25,000 or greater, and a useful life of two years or more.

7. **Construction-in-Progress** means real property that is being constructed, but has not been accepted by NSF or is not otherwise ready for use.

8. **Deferred maintenance** means maintenance that was not performed when it should have been or was scheduled to be and which, therefore, is put off or delayed for a future period.

9. **Minimum lease payment** means the sum of all payments required for the right to use property for a stated period. This includes but is not limited to:

(a) The minimum rent required during the lease term.

(b) Any payment(s) or guarantee(s) required at the end of the lease term, including: (i) any amount stated to purchase the leased property; (ii) any amount stated to make up any deficiency from a specified minimum; and (iii) any amount payable for failure to renew or extend the lease at the expiration of the lease term.

10. **Equipment** means all plant equipment, special test equipment, and special tooling as defined at FAR Subpart 45.101(a); and all agency-peculiar property as defined at FAR Subpart 45.301.

11. **Government property** has the same meaning as defined at FAR Subpart 45.101(a).

12. **Half-year convention** means a method of calculation that recognizes a half-year of depreciation for the year a property item is available for use as determined by its acquisition date, and the year following the end of its useful life.

13. **In-service date** means the month and year that NSF received title to an item of property.

14. **Maintenance** means the act of keeping property in acceptable condition. It includes normal repairs, replacement of parts and structural components needed to preserve the property so that it continues to provide acceptable services and achieves its expected life. Maintenance excludes activities aimed at expanding the capability of property or otherwise upgrading it to serve needs different from, or significantly greater than, those originally intended.

15. **Material** has the same meaning as defined at FAR Subpart 45.301.

16. **Property** has the same meaning as defined at FAR Subpart 45.101(a).

17. **Real property** has the same meaning as defined at FAR Subpart 45.101(a).

18. **Net Gain or Loss** means the difference between the net book value and the amount realized on disposal, retirement, sale, exchange or donation of any particular item of property.

19. **Software** means the application and operating system programs, procedures, rules, and any associated documentation pertaining to the operation of a computer system or program.

20. **Commercial Off-the-Shelf Software (COTS)** means software that is purchased (including licensed software) from a vendor and is ready for use with little or no change, for which the purchase price is being reimbursed to the Contractor as a direct cost.

21. **Contractor-Developed Software** means software that the cost for development, including but not limited to cost for design, programming, installation, documentation, and/or training, is being reimbursed to the Contractor as a direct cost.

b. Equipment

1. On or before July 15 and October 15 each year, the Contractor shall submit to the Foundation the following reports for all equipment identified as Government property in the custody of the Contractor (including equipment assigned to subcontractors and grantees), and classified as either accountable property or capitalized property.

(a) A complete inventory of equipment as of June 30 and September 30 respectively.

(b) A complete inventory of equipment for which the Contractor assumed custody during the period from October 1 of the previous year through June 30 and September 30, respectively, of the current year.

(c) A complete inventory of equipment for which the Contractor was relieved of custody during the period from October 1 of the previous year through June 30 and September 30, respectively, of the current year.

2. On or before November 15 each year, the Contractor shall submit to the Foundation a complete inventory of equipment, classified as either accountable property or capitalized property, that the Contractor assumed custody of during the month of October of the current year.

3. These reports shall, at a minimum, include the following data:

(a) NSF Property Tag Number

(b) Equipment Description

(c) Make and/or Model

(d) Manufacturer

(e) Manufacturer's Serial Number

(f) Purchase Order/Subcontract No., Government Transfer Order No. or added by physical inventory

(g) Indicate if added by physical inventory or through Government Transfer Order

(h) Acquisition Date

(i) In-Service Date

(j) Acquisition Cost or Minimum Lease Payment

(k) Lease Term (if applicable)

(l) Periodic Lease Payment (if applicable)

(m) Lease Payment Period (if applicable)

(n) Location (Geographic, or Vessel, Aircraft or Spacecraft Location)

(o) Indicate if on Loan

(p) Federal Supply Classification (FSC)

(q) Annual Depreciation Expense (excluding assignable leases)

(r) Accumulated Depreciation (excluding assignable leases)

(s) Net Book Value (excluding assignable leases)

(t) Amount Realized on Disposal, Retirement, Sale, Exchange, or Donation (excluding assignable leases)

(u) Net Gain or Loss (excluding assignable leases)

4. Equipment that is considered sensitive or hazardous and valued at less than \$5,000 may be included in this inventory as a means of control.

5. The straight-line method of depreciation shall be used to calculate depreciation expenses. Useful life shall be established in accordance with Internal Revenue Service Depreciation Guidelines. A half-year convention for recognizing depreciation shall be employed. Changes in useful life or salvage value shall be treated prospectively, and accounted for in future periods. No changes shall be made to previously recorded depreciation.

6. These reports shall be segregated into four parts.

(a) Equipment identified as accountable property.

(b) Equipment identified as capitalized property except property acquired by capital or assignable lease.

(c) Equipment acquired by capital lease.

(d) Equipment acquired by assignable lease.

c. Real Property

1. On or before July 15 and October 15 each year, the Contractor shall submit to the Foundation the following reports for all real property identified as Government property in the custody of the Contractor (including real property assigned to subcontractors and grantees), and classified as either accountable property or capitalized property.

(a) A complete inventory of real property as of June 30 and September 30 respectively.

(b) A complete inventory of real property for which the contractor assumed custody during the period from October 1 of the previous year through June 30 and September 30, respectively, of the current year.

(c) A complete inventory of real property for which the contractor was relieved of custody during the period from October 1 of the previous year through June 30 and September 30, respectively, of the current year.

2. On or before November 15 each year, the Contractor shall submit to the Foundation a complete inventory of real property, classified as either accountable property or capitalized property, that the Contractor assumed custody of during the month of October of the current year.

3. These reports shall, at a minimum, include the following data:

- (a) NSF Property Number
- (b) Item Description
- (c) Quantity
- (d) Purchase Order/Subcontract No. or Government Transfer Order No.
- (e) Indicate if acquired through Government Transfer Order
- (f) Acquisition Date
- (g) In-Service Date
- (h) Gross Square Footage or Acreage
- (i) Acquisition Cost or Minimum Lease Payment
- (j) Lease Term (if applicable)
- (k) Periodic Lease Payment (if applicable)
- (l) Lease Payment Period (if applicable)
- (m) Function
- (n) Location
- (o) Annual Depreciation Expense (capitalized property excluding land and assignable leases only)
- (p) Accumulated Depreciation (capitalized property excluding land and assignable leases only)
- (q) Net Book Value (capitalized property excluding land and assignable leases only)
- (r) Amount Realized on Disposal, Retirement, Sale, Exchange, or Donation (capitalized property excluding land and assignable leases only)
- (s) Net Gain or Loss (capitalized property excluding land and assignable leases only)

4. The straight-line method of depreciation shall be used to calculate depreciation expenses. Useful life shall be established in accordance with Internal Revenue Service Depreciation Guidelines. A half-year convention for recognizing depreciation shall be employed. Changes in useful life or salvage value shall be treated prospectively, and accounted for in future periods. No changes shall be made to previously recorded depreciation.

5. These reports shall be segregated into four parts.

- (a) Real property identified as accountable property.
- (b) Real property identified as capitalized property except property acquired by capital or assignable lease.
- (c) Real property acquired by capital lease.
- (d) Real property acquired by assignable lease.

d. Construction-in-Progress

1. On or before July 15 and October 15 the Contractor shall submit to the Foundation a report of all Construction-in-Process as of June 30 and September 30 respectively.

2. This report shall, at a minimum, include the following data:

- (a) Identifying Project Number
- (b) Project Description
- (c) Project Location
- (d) Acquisition Cost to Date (material cost to be calculated at the time materials are acquired and/or identified for use in the project)

e. Deferred Maintenance

1. On or before July 15 and October 15 the Contractor shall submit to the Foundation a report of all deferred maintenance for all property classified as either accountable property or capitalized property as of June 30 and September 30 respectively.

2. Property, whether classified as accountable property or capitalized property, shall be segregated and reported in the following categories:

- (a) Land
- (b) Buildings
- (c) Other structures and facilities
- (d) Aircraft
- (e) Equipment

3. Deferred maintenance shall be measured employing either the condition assessment survey method or the total life-cycle cost method as described in Federal Accounting Standards Advisory Board Statement of Federal Financial Accounting Standards No. 6, titled "Accounting for Property, Plant, and Equipment." The reporting method shall be at the contractor's discretion. The contractor shall notify NSF of any changes in reporting method.

4. These reports shall, at a minimum, identify the following data:

(a) The method of measuring deferred maintenance for each category of property identified in paragraph e.2 of this clause.

(b) If the condition assessment survey method is selected, the following additional information shall be reported:

(1) A narrative describing the requirements or standards for acceptable operating condition.

(2) A narrative describing any changes in the aforementioned requirement or standards implemented during the reporting period.

(3) A rating describing the overall condition of the property employing the following scale: 1 – Excellent; 2 – Good; 3 – Fair; 4 – Poor; and 5 – Very Poor. A rating of 3 – Fair is considered as the minimum acceptable condition.

(4) An estimate of the dollar amount of maintenance deferred.

(c) If the total life-cycle cost method is selected, the following additional information shall be reported:

(1) A narrative describing the original date of the maintenance forecast and an explanation for any changes to the forecast.

(2) The prior year balance of the cumulative deferred maintenance amount.

(3) The dollar amount of maintenance that was required for the reporting period.

(4) The dollar amount of maintenance that was actually performed during the reporting period.

(5) The dollar amount of any adjustment to the scheduled amounts of maintenance deemed necessary.

(6) The ending cumulative balance of deferred maintenance for the reporting period.

f. Software

1. On or before July 15 and October 15 each year, the Contractor shall submit to the Foundation the following reports for all COTS and Contractor-developed software identified as Government property that, in the aggregate, cost \$500,000 or more.

(a) A complete inventory of software as of June 30 and September 30 respectively.

(b) A complete inventory of software for which the Contractor assumed custody during the period from October 1 of the previous year through June 30 and September 30, respectively, of the current year.

(c) A complete inventory of software for which the Contractor was relieved of custody during the period from October 1 of the previous year through June 30 and September 30, respectively, of the current year.

2. These reports shall, at a minimum, include the following data:

(a) NSF Property Number

(b) Item Description

(c) Quantity

(d) Make and/or Model

(e) Manufacturer

- (f) Manufacturer's Serial Number
- (g) Purchase Order/Subcontract No. or Government Transfer Order No.
- (h) Indicate if acquired through Government Transfer Order
- (i) Acquisition Date
- (j) In-Service Date
- (k) Acquisition Cost
- (l) Useful Life
- (m) Annual Depreciation Expense
- (n) Accumulated Depreciation
- (o) Net Book Value
- (p) Any restrictions on use or convertibility

3. The straight-line method of depreciation shall be used to calculate depreciation expenses. Useful life shall be established in accordance with Internal Revenue Service Depreciation Guidelines. A half-year convention for recognizing depreciation shall be employed. Changes in useful life or salvage value shall be treated prospectively, and accounted for in future periods. No changes shall be made to previously recorded depreciation.

4. Acquisition cost shall be determined using the "National Science Foundation Software Property Asset Cost Worksheet." Software acquisition costs do not include the following:

- (a) Any cost associated with preliminary design, evaluation, or testing of alternative software.
- (b) Marketing surveys used in the final selection criteria for software.
- (c) Any costs incurred to convert data, including costs to develop or obtain software to access or convert existing data, and costs to purge, correct or cleanse existing data before it is converted.
- (d) Costs incurred after implementation is completed (e.g., repair of a design flaw or minor upgrades that extend the software's useful life).

5. Computer software that is integrated into and necessary to operate equipment, rather than perform an application, is considered an integral part of that equipment, and shall not be reported as software.

6. COTS software acquired as a "bundle" of products requires reasonable valuation of each component. Do not report software components unless the component itself is valued at \$500,000 or greater.

7. Software in development, but not complete as of the reporting date, for which acquisition costs are anticipated to exceed \$500,000 shall be identified and reported as work-in-progress. The software will be valued at the total cost incurred to develop the software as of the reporting date.

8. Software acquired prior to October 1, 2000 shall not be included in these reports.

g. Reserved

h. GSA Form 1166

1. GSA Form 1166, titled "Quarterly Report of Real Property Owned by or Leased to the United States," shall be completed and submitted to the Foundation on or before October 15 each year. This report shall be complete as of September 30 of the current year.

2. Notwithstanding the form's title, annual submission is required.

i. Standard Form 82 – Standard Form 82, titled "Agency Report of Motor Vehicle Data," shall be completed and submitted to the Foundation prior to October 15 each year. This report shall be complete as of September 30 of the current year.

j. Submission

All reports and inventories identified in this subsection shall be submitted as follows:

1. One set to:

National Science Foundation
 Division of Administrative Services
 4201 Wilson Boulevard, Room 295
 Arlington, VA 22230
 ATTN: Property Administrator

2. One set to:

National Science Foundation
 Division of Financial Management
 Accounting Operations Branch
 4201 Wilson Boulevard, Room 575
 Arlington, VA 22230
 ATTN: Branch Chief

3. One set to:

National Science Foundation
 Division of Acquisition & Cost Support
 4201 Wilson Boulevard, Room 475
 Arlington, Virginia 22230
 ATTN: Contracting Officer

F4. CONTRACTOR DATA REQUIREMENTS

The contractor shall provide the following data at the intervals specified:

| F4.1. | Description | Interval | Due | Contract Ref |
|--------------|---|-----------------|------------|---------------------|
| 1. | Report of number of program participants at each location | Annual | December | C3.2.3.3 |
| 2. | Report of number of flight hours per project | Annual | December | C3.2.3.3 |
| 3. | Data on telecommunications allocation and usage | Annual | December | C3.2.3.3 |
| 4. | Site plans for each field site | Annual | December | C3.2.3.3 |

F5. CONTRACT DELIVERABLES

| F5.1. | Description | Interval | Due | Contract Ref |
|--------------|---|-----------------------|---|---------------------|
| 1. | Annual Program Plan | Annual | December | C3.1.b |
| 2. | Database of OPP Arctic field projects | Continuous | Continuous | C3.1.c |
| 3. | Annual Plan for Shared Use Aircraft Services | Annual | December | C3.6.2 |
| 4. | Arctic Field Safety Training Sessions | 3 per year | Generally in Spring | C3.9.2 |
| 5. | Operational procedures for Summit, Greenland | As required | As required | C3.7.1 |
| 6. | Quarterly Progress Report & Financial Statement | Quarterly | 15 days after end of accounting period | F3.1 |
| 7. | Annual Program Plan Performance Report | Annual | December | F3.2 |
| 8. | Project Operations Plans | Each project | 2 weeks prior to project deployment | C3.2.1.1 |
| 8. | Project Reports | On project completion | 30 days after end of project; annually for multi-year | F3.3 |

| F5.1. | Description | Interval | Due | Contract Ref |
|--------------|---|-----------------|---------------------------------------|---------------------|
| | | | projects | |
| 9. | Property Inventory Reports: Equipment | 2 per year | July 15, October 15 | F3.4.b |
| 10. | Property Inventory Reports: Real Property | 2 per year | July 15, October 15 | F3.4.c |
| 11. | Construction in Progress Report | 2 per year | July 15, October 15 | F3.4.d |
| 12. | Deferred Maintenance Report | 2 per year | July 15, October 15 | F3.4.e |
| 13. | Software Inventory | 2 per year | July 15, October 15 | F3.4.f |
| 14. | Certificate of Insurance | Annual | On award; December 1 thereafter | H7.3 & H8.3 |

F6. FAR CLAUSES INCORPORATED BY REFERENCE

NOTICE LISTING CLAUSES INCORPORATED BY REFERENCE

Federal Acquisition Regulations (48 CFR Chapter 1) Clauses

52.242-15 Alt I STOP-WORK ORDER, Alternate I (April 1984) AUG 1989

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SECTION G - CONTRACT ADMINISTRATION DATA

G1. AUTHORITY OF GOVERNMENT PERSONNEL

G1.1 Contracting Officer

G1.1.1 The Contracting Officer (CO) is the only person authorized to approve changes in any of the requirements under this contract. Notwithstanding any clause contained elsewhere in this contract, the said authority remains solely with the CO.

G1.1.2 In the event the Contractor effects any change at the direction of any person other than the CO, including any change beyond the scope of authority given to the duly authorized Contracting Officer's Technical Representative identified in the contract, the change will be considered to have been made without authority and no adjustment will be made in the contract price to cover any increase in charges incurred as a result thereof. The CO has the authority to perform any and all post-award functions in administering and enforcing this contract in accordance with its terms and conditions.

G1.2 Contracting Officer's Technical Representative

G1.2.1 The Contracting Officer's Technical Representative (COTR) is responsible for administering the performance of work under this contract. **IN NO EVENT**, however, will any understanding, agreement, modification, change order, or other matter deviating from the terms of this contract be effective or binding upon the Government unless formalized by proper contractual documents executed by the CO prior to completion of the contract.

G1.2.2 The COTR may give technical direction to the Contractor that fills in details, requires pursuit of certain lines of inquiry, or otherwise serves to facilitate the Contractor's compliance with the contract. To be valid, technical direction by the COTR must be consistent with the general scope of work set forth in this contract; may not constitute new assignment of work nor change be expressed terms, conditions or specifications of this contract; and shall not constitute a basis for any increase in the contract estimated cost, or extension to the contract delivery schedule.

G2. NOTIFICATION OF CHANGES (ORAL OR WRITTEN)

G2.1 In the event any Government direction is interpreted by the Contractor to fall within the clause of this Contract entitled "Changes", the Contractor shall not implement such direction, but shall notify the CO in writing of such interpretation within ten (10) working days after the Contractor's receipt of such direction. Such notice shall include the reasons upon which the Contractor bases its belief that the technical direction falls within the purview of the "Changes" clause; and include the Contractor's best estimate as to the revision of the current cost, fee, performance time, delivery schedules or any other contractual provision that would result from implementing the COTR's direction.

G2.1.1 If, after reviewing the information presented by the Contractor, the CO is of the opinion that such direction is within the purview of the "Changes" clause and considers such change desirable, a unilateral direction will be issued to the Contractor to proceed pursuant to the authority granted under that clause. If a determination is made that such direction is technical direction authorized by this schedule clause, the Contractor will be directed to proceed with the implementation of such technical direction.

G2.1.2 In the event a determination is made that it is necessary to avoid a delay in performance of the Contract, the CO may direct the Contractor to proceed with the implementation of the technical direction pending receipt of the information to be submitted by the Contractor. Should the CO later determine that Change direction is appropriate, the written direction issued hereunder shall constitute the required Change direction.

G2.1.3 Failure of the Contractor and the CO to agree on whether Government direction is technical direction or a Change within the purview of the "Changes" clause shall be a dispute concerning a question of fact within the meaning of the Clause of the General Provision entitled, "Disputes."

G3. INVOICE AND BILLING INFORMATION

G3.1 Submission of Proper Invoice In order to initiate payment, the Contractor shall submit proper invoices for reimbursement in the manner and format described herein. The following data must be included in an invoice for it to constitute a proper invoice:

- a. name and address of Contractor;
- b. Invoice number and date;
- c. contract number, or other authorization for delivery of property or services;
- d. description, price, fee (if applicable), and quantity of property and services actually delivered or rendered;
- e. shipping and payment terms;
 1. name (where practicable), title, phone number, and complete mailing address of responsible official to whom payment is to be sent; and
 2. other substantiating documentation or information as required by the contract;
- f. invoice period

G3.1.1 Form The Contractor may use its own form, but all the above information must be on the invoice. However, it is preferred that invoices be submitted on the Government Standard Form 1034, "Public Voucher for Purchases and Services Other Than Personal-Continuation Sheet." These forms are available from the Government Printing Office, 710 N. Capitol Street, Washington, DC 20801.

G3.1.2 Address Submit all proper invoices as follows:

- a. One complete invoice (Original) with all attachments to the attention of the designated COTR for this effort, National Science Foundation, Office of Polar Programs, Arctic Sciences, Room 755S, 4201 Wilson Boulevard, Arlington, VA 22230.
- b. One invoice copy without attachments to the National Science Foundation, Division of Financial Management, Accounts Payable, Room 575, 4201 Wilson Boulevard, Arlington, VA 22230.

Upon completion of the required work, the Contractor shall submit a completion invoice in compliance with the clause entitled, "Allowable Cost and Payment" incorporated by reference under Section I of this contract. This completion invoice must be clearly marked as such and be submitted promptly upon completion of the work, but no later than one year from the completion date of this contract. The Contractor shall submit the original completion invoice to the Contracting Officer for approval.

G4. PAYMENT OF INVOICES

G4.1 Section I, contract clause entitled, Prompt Payment, sets forth the general requirements for receipt of services and submission of invoices under this contract. Partial payments are authorized every two weeks for services performed and accepted, provided the Government and Contractor agree upon amounts due, and there is no disagreement over quantity, quality or Contractor compliance with contract requirements.

G4.2 Payment Due Date

The payment due date, as defined by the Prompt Payment Act, is calculated from the date the proper invoice as defined above is received (following completion of the two week billing period) by the designated billing office.

G4.3 Improper Invoices

The Contractor will be notified in accordance with the provisions of the Prompt Payment Act if the invoice is not properly completed. The payment due date will then be computed from the date of receipt by the designated billing office of the properly completed invoice.

G4.4 Disputed Payments

Claims for payment of supplies or services that involve disagreements between the Government and the Contractor about quantity, quality, or Contractor compliance with contract requirements, must be submitted separately, and will be processed in accordance with the Disputes clause, Section I of this contract.

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SECTION H - SPECIAL CONTRACT REQUIREMENTS

H1. CHOICE OF LAW/NTSB AUTHORITY

This contract shall be construed and interpreted in accordance with the substantive laws of the United States of America. By the execution of this contract, the Contractor expressly agrees to waive any rights to invoke the jurisdiction of local national courts where this contract is performed and agrees to accept the exclusive jurisdiction of the Board of Contract Appeals as selected by NSF and the United States Court of Federal Claims for the hearing and determination of any and all disputes that may arise under the Disputes clause of this contract. Furthermore, the Contractor expressly agrees to recognize the jurisdiction and authority of the U.S. National Transportation Safety Board, its agents and its employees in the conduct of investigations determined to be necessary by the Board as a consequence of providing flight services under this contract.

H2. KEY PERSONNEL

Personnel specified below are considered to be essential to the work being performed hereunder. Prior to diverting any of the specified individuals to other activities or programs, the Contractor shall notify the Contracting Officer reasonably in advance and shall submit justification (including proposed substitutions) in sufficient detail to permit evaluation of the impact of such substitution upon the contract. No diversion shall be made by the Contractor without the written consent of the Contracting Officer; provided, the Contracting Officer may ratify the change in writing, and such ratification shall constitute the consent of the Contracting Officer required by this clause. Positions may be added or deleted from this clause during performance of the contract by mutual agreement of both parties.

| <u>Name</u> | <u>Title</u> |
|-------------|-----------------------------|
| | Program Director |
| | Logistics Program Manager |
| | Planning Manager |
| | Internal Logistics Manager |
| | Greenland Logistics Manager |
| | Alaska Logistics Manager |
| | Construction Manager |
| | Subcontracts Manager |
| | Inventory Manager |
| | Communications Manager |
| | Communications Engineer |

H3. CONTRACTOR'S ON-SITE MANAGER

For work performed at Summit or other locations designated by the Government, the Contractor shall designate an on-site manager, with full authority to receive instruction and act on the contractor's behalf. This authority need not include the authority to bind the contractor contractually. However, the individual shall have knowledge of the duties and responsibilities of the Government personnel identified herein. In addition, the Contractor shall designate an alternate on-site manager to function in the place of the on-site manager in his/her absence. The on-site manager or his/her alternate shall be on-site at all times when the Contractor's employees are working at the facility.

H4. CONSULTANTS

Acts making appropriations to NSF limit the maximum rate of compensation paid to consultants (whether retained by the Federal Government or by a contractor) to the daily equivalent of the rate paid for Level IV of the Executive Schedule, unless otherwise specifically authorized by law. The current maximum consultant rate of \$524 is the limit for personal compensation and is exclusive of any indirect costs, travel, per diem, clerical services, fringe benefits,

and supplies. The maximum rate per day, per consultant, shall not be exceeded without the prior written approval of the Contracting Officer. Any request by the organization to pay in excess of the maximum rate of compensation day shall contain the following information:

- 1) Biographical sketch including education and professional experience of the consultant;
- 2) Services the consultant will perform and the amount of time to be spent;
- 3) Previous rates paid to the consultant by the contractor for similar services for a like period;
- 4) Available information on rates charged by the consultant for similar services for a like period.

H5. SUBCONTRACTS

H5.1 In addition to the requirements set forth in the clause of this contract entitled "Subcontracts" (See Section I, FAR Clause 52.244-2), the Contractor shall not commence the acquisition of any subcontract item or service unless and until funds are obligated under this contract for that item or service, or unless specifically authorized to do so in writing by the Contracting Officer.

H5.2 In accordance with paragraph (k) of the clause 52.244-2, the following subcontract(s) are hereby listed and no further consent to subcontract is required by the Contracting Officer. Contractor shall obtain consent as required in accordance with paragraph (d) of the clause for all other required subcontract actions.

Subcontractor:

Polar Field Services, Inc., 7175 W. Jefferson Avenue, Suite 1200, Lakewood, CO 80235
SRI International, 333 Ravenswood Avenue, Menlo Park, CA 94025

H6. REPLACEMENT OF PERSONNEL – CONTRACTOR PERSONNEL CONDUCT

H6.1 The Contractor shall be responsible for the furnishing of personnel fully qualified to perform the services as provided for in this contract. As a designated representative of the Contractor, Contractor personnel are expected to perform and act in a professional manner at all times. The Contractor shall be fully responsible for the actions of Contractor employees during the performance term of this contract.

H6.2 Performance of contract services may involve work and/or residence on Federal and other Arctic program facilities. Contractor employees are expected to follow the rules of conduct established by the manager of such facilities that apply to all (both Government or non-Government) personnel working or residing on such facilities. A copy of such rules will be available from the facility manager.

H6.3 Personnel who perform ineffectively, refuse to cooperate in the fulfillment of the project objectives, are unable or unwilling to adapt to field living conditions, or whose general performance is unsatisfactory or otherwise disruptive, shall be replaced by the Contractor.

H6.4 The Contracting Officer shall notify the Contractor of all unsatisfactory conduct or performance, stating the conditions of unsatisfactory or unsafe performance by contractor personnel. An opportunity for corrective action may be afforded, when the conditions warrant. When directed by the Contracting Officer, the Contractor agrees to replace unacceptable personnel in a time period as mutually agreed upon.

H7. INSURANCE REQUIREMENTS

(a) (1) Except as provided in subparagraph (2) immediately following, or in paragraph (h) of this clause (if the clause has a paragraph (h)), the Contractor shall provide and maintain workers' compensation, employer's liability, comprehensive general liability (bodily injury), comprehensive automobile liability (bodily injury and property damage) insurance, and such other insurance as the Contracting Officer may require under this contract.

(2) The Contractor may, with the approval of the Contracting Officer, maintain a self-insurance program; provided that, with respect to workers' compensation, the Contractor is qualified pursuant to statutory authority.

(3) All insurance required by this paragraph shall be set forth in the provisions of this contract and be in a form and amount and for those periods as the Contracting Officer may require or approve and with insurers approved by the Contracting Officer.

(b) The Contractor agrees to submit for the Contracting Officer's approval, to the extent and in the manner required by the Contracting Officer, any other insurance that is maintained by the Contractor in connection with the performance of this contract and for which the Contractor seeks reimbursement.

(c) Except as provided in paragraph (h) of this clause (if the clause has a paragraph (h)), the Contractor shall be reimbursed

(1) For that portion (i) of the reasonable cost of insurance allocable to this contract and (ii) required or approved under this clause; and

(2) For certain liabilities (and expenses incidental to such liabilities) to third persons not compensated by insurance or otherwise. These liabilities must arise out of the performance of this contract, whether or not caused by the negligence of the Contractor or of the Contractor's agents, servants, or employees, and must be represented by final judgments or settlements approved in writing by the Government. These liabilities are for

(i) Loss of or damage to property (other than property owned, occupied, or used by the Contractor, rented to the Contractor, or in the care, custody, or control of the Contractor; or

(ii) Death or bodily injury.

(d) The Government's liability under paragraph (c) of this clause is subject to the "Limitation of Cost" or the "Limitation of Funds" clause of this contract.

(e) The Contractor shall not be reimbursed for liabilities (and expenses incidental to such liabilities)

(1) For which the Contractor is otherwise responsible under the express terms of any clause specified in the Schedule or elsewhere in the contract:

(2) For which the Contractor has failed to insure or to maintain insurance as required by the Contracting Officer; or

(3) That result from willful misconduct or lack of good faith on the part of any of the Contractor's directors, officers, managers, superintendents, or other representatives who have supervision or direction of

(i) All or substantially all of the Contractor's business;

(ii) All or substantially all of the Contractor's operations at any one plant or separate location in which this contract is being performed; or

(iii) A separate or complete major industrial operation in connection with performance of this contract.

(f) The provisions of paragraph (e) of this clause shall not restrict the right of the Contractor to be reimbursed for the cost of insurance maintained by the Contractor in connection with the performance of this contract, other than insurance required in accordance with this clause; provided, that such cost is allowable under the Allowable Cost and Payment clause of this contract.

(g) If any suit or action is filed or any claim is made against the Contractor, the cost and expense of which may be reimbursable to the Contractor under this contract, and the risk of which is then uninsured or is insured for less than the amount claimed, the Contractor shall

(1) Immediately notify the Contracting Officer and promptly furnish copies of all pertinent papers received.

(2) Authorize Government representatives to collaborate with counsel for the insurance carrier in settling or defending the claim when the amount of the liability claimed exceeds the amount of coverage; and

(3) Authorize Government representatives to settle or defend the claim and to represent the Contractor in or to take charge of any litigation, if required by the Government, when the liability is not insured or covered by bond. The Contractor may, at its own expense, be associated with the Government representatives in any such claim or litigation.

(h) The Contractor warrants that insurance coverage (currently in force) exists in the following areas and in amounts not less than those specified below:

| Type <u>Insurance</u> | Coverage | | |
|--|-------------------|-----------------|---------------------|
| | <u>Per Person</u> | <u>Property</u> | <u>Per Accident</u> |
| 1. Comprehensive General Liability | \$500,000 | \$500,000 | \$1,500,000 |
| 2. Automobile | \$500,000 | \$500,000 | \$1,000,000 |
| 3. A supplemental umbrella policy for \$5,000,000. | | | |

4. Workman's Compensation - As required by law at the job site.

The Comprehensive general and automobile liability policies shall contain a provision worded as follows: "The insurance company waives any right of subrogation against the United States of America which may arise by reason of any payment under the policy."

The contractor shall file with the Contracting Officer prior to beginning performance under this contract, a certificate of insurance evidencing the above coverage.

The Contractor shall provide to the Contracting Officer within five (5) days after occurrence, notice of cancellation of or reductions below the above cited amounts of any insurance coverage related to this requirement.

The Contractor warrants that such insurance coverage for all subcontractors who will work at any of the sites of performance does or will exist before subcontractors begin performance.

H8. AIRCRAFT PUBLIC AND PASSENGER LIABILITY INSURANCE

H8.1 The Contractor agrees to maintain, during the continuance of this contract, aircraft public and passenger liability insurance with limits of liability for: (1) bodily injury to or death of aircraft passengers of not less than US\$200,000 multiplied by the number of aircraft passengers or seats, whichever is greater; (2) bodily injury to or death of persons (excluding passengers) of not less than US\$200,000 for any one person in any one occurrence and US\$500,000 for each occurrence; and (3) property damage of not less than US\$200,000 for each occurrence; or (4) a single limit of liability for each occurrence equal to or greater than the combined required minimums set forth in (1) through (3) above.

H8.2 The Contractor warrants that such insurance coverage for all subcontractors who provide flight services does or will exist before subcontractors begin performance.

H8.3 The Contractor shall file with the Contracting Officer prior to beginning performance under this contract, a certificate of insurance evidencing the above coverage. The Contractor shall provide to the Contracting Officer within five (5) days after occurrence, notice of cancellation of or reductions below the amounts cited above of any insurance coverage related to this requirement.

H9. LIMITED USE OF DATA AND INFORMATION

H9.1 Performance of this contract may require the Contractor to access data and information proprietary to a Government agency or Government Contractor and/or such a nature that its dissemination or use, other than in performance of this contract, would be adverse to the interest of the government and/or others.

H9.2 Contractor and/or Contractor personnel shall not divulge or release data or information developed or obtained in performance of this contract, until made public by the Government, except to authorized Government personnel or upon written approval of the NSF Contracting Officer. The Contractor and its personnel shall not use, disclose or reproduce proprietary data that bears a restrictive legend, other than as required in the performance of this contract. Nothing herein shall preclude the use of any data independently acquired by the Contractor without such limitations or prohibit an agreement at no cost to the Government between the Contractor and the data owner that provides for greater rights to the Contractor.

H10. NSF SYSTEMS SUBJECT TO PRIVACY ACT RESTRICTIONS

H10.1 Performance of work by the Contractor may require access to and operation of the following NSF system of records:

No. 19 -- *Medical Examination Records for Service in the Polar Regions*

H10.2 This system of records is subject to the requirements of the Privacy Act of 1974 (5 U.S.C. 552a) and applicable NSF regulations governing their use. Violation of the Act may involve the imposition of criminal penalties and/or civil sanctions.

H11. GENERAL PURPOSE EQUIPMENT

H11.1 The Contractor shall not fabricate, purchase, rent, or otherwise acquire any general purpose equipment, the acquisition cost of which is to be charged directly to the performance of this contract unless prior written approval to do so is obtained from the Contracting Officer. General purpose equipment is defined as equipment which is usable for other than research, medical/scientific, or technical activities, whether or not special modifications are needed to make them suitable for a particular purpose. Examples of general purpose equipment include office equipment and furnishings, air conditioning equipment, reproduction and printing equipment, motor vehicles, and automatic data processing equipment.

H12. AWARD TERM

H12.1 Period of Performance

The contract's *core* performance period of thirty-six (36) months (i.e., from June 1, 2005 through May 31, 2008) may be extended in twelve (12) month *award term* increments, up to an additional forty-eight (48) months, based on overall contract performance. These additional *award term* periods will be awarded by the Government based on overall contractor performance as evaluated by the Government.

H12.2 Criteria

H12.2.1 The Contractor's performance as demonstrated by the data collected and reported as required by this contract, the results of inspections and other surveillance efforts, and the observations of Government personnel will be assessed using the following criteria:

1. Quality & effectiveness
 - a. Quality of plans
 - b. Demonstrated ability to monitor activity against plans
 - c. Demonstrated ability to access the effectiveness of performance against plans
2. Responsiveness
 - a. Arctic science is conducted in a volatile environment. The contractor must be responsive to changing needs
3. Timeliness & completeness
 - a. Demonstrated ability to deliver complete products and services on-time
4. Cost
 - a. Demonstrated ability to plan efficient budgets
 - b. Ability to control costs
 - c. Ability to forecast cost under-runs and overruns.

H12.2.2 At the conclusion of the evaluation procedure, NSF will assign one of the following grades:

| Grade | Definition |
|-----------|--|
| Excellent | Performance is outstanding in most respects, approaching the best that could be performed by a qualified contractor. The contractor has greatly exceeded quality, schedule, output, and overall performance that would be expected of a qualified contractor. Areas requiring improvement are very few and relatively unimportant. Contractor shows initiative in performing work and implementing improvements. |

| Grade | Definition |
|----------------|---|
| Very Good | Performance is substantially better than average. Contractor has met all needs, and improved upon quality and schedules. Contractor has exceeded performance of an average contractor. Areas requiring improvement are relatively few, and are more than offset by areas of above average or excellent performance. |
| Satisfactory | Performance is adequate overall. Contractor has met needs, schedules, and expectations in a fashion that corresponds to standard performance by a qualified contractor. Areas requiring improvement are relatively minor and are offset by areas of above standard performance. |
| Marginal | Performance is below the standard expected of a qualified contractor. Contractor needs to improve in a significant number of areas. Performance in other areas is generally average, with few or no areas of above standard performance. |
| Unsatisfactory | Performance is generally below average and needs improvement in a substantial number of work areas. |

H12.3 Procedure

H12.3.1 Following submission of the *Annual Report* and any other materials the Contractor wishes to submit, a Performance Evaluation Committee (PEC), chaired by a staff member of the Office of Polar Programs and including the Contracting Officer will convene to evaluate the Contractor's performance against the established criteria for the period June 1 through the end of May of the following year.

H12.3.2 Upon completion of the annual evaluation, the PEC Chairperson will submit the preliminary evaluation and rating to the Contractor. The Contractor may, within fifteen (15) calendar days of receiving the evaluation, submit additional written information to the PEC Chairperson concerning the committee's findings. The Contractor may also, at its discretion, present additional information in an oral presentation at a mutually agreeable date.

H12.3.3 The PEC will then consider the additional information presented by the Contractor, revise its evaluation (if necessary), and present the evaluation and all information presented by the Contractor to the Award Term Determination Official (ATDO). The ATDO will review all the materials presented, and determine if the Contractor has earned additional contract term.

H12.4 Award Term Administration

The award term evaluation will be completed annually, and will be used as the basis for any award term decisions. The first year of the contract will be evaluated on a *transition* basis with the results not to be included in any award term decision. Award term decisions that affect the period of performance will commence at the end of the second twelve-month period and conclude at the end of the fifth twelve-month period. The award term evaluation schedule is as follows:

- Core Year 1 – No Award, Performance Evaluation Only
- Core Year 2 – *Very Good* Performance Evaluation Earns Award of Year 4
- Core Year 3 – *Very Good* Performance Evaluation Earns Award of Year 5
- Award Year 4 – *Excellent* Performance Evaluation Earns Award of Year 6
- Award Year 5 – *Excellent* Performance Evaluation Earns Award of Year 7
- Award Year 6 – No Award, Performance Evaluation Only
- Award Year 7 – No Award, Performance Evaluation Only

H12.5 Contract Expiration

H12.5.1 If the ATDO determines that the Contractor is entitled to additional contract term, the Contracting Officer shall issue a bilateral modification awarding the additional contract term.

H12.5.2 If the Contractor is unable to earn additional contract term in a particular evaluation period, the contract will expire at the completion of the period following the one under evaluation.

H12.5.3 The Contractor cannot be awarded an additional term in any final contract period. Except as otherwise provided, the contract will not be extended beyond an eighty-eight (88) month period of performance.

H12.6 Availability of Funds

Funds are not presently available for any award term periods earned. The Government's obligation under this contract concerning award term periods earned is contingent upon the availability of appropriated funds from which payment for contract purposes can be made. No legal liability on the part of the Government for any payment may arise until funds are made available to the Contracting Officer for the award term periods and until the Contractor receives notice of such availability, to be confirmed in writing by the Contracting Officer.

H13. RIGHTS IN DATA

(a) Subject Data

(i) The term "Subject Data" as used herein includes writings, information stored in any form, sound recordings, computer programs, pictorial reproductions, drawings, or other graphic representations and works of any similar nature which are first generated, produced or composed in the performance of this contract, whether delivered or not under this contract.

(ii) All Subject Data shall be the sole property of the Foundation. The Contractor shall not publish, reproduce, distribute or otherwise make disposition of such Subject Data in whole or in part or in any manner or form, or authorize others to do so without the prior written consent of the Contracting Officer or until such time as the Government may have released such Subject Data to the public.

(b) Other Data

(i) The term "Other Data" as defined herein includes writings, information stored in any form, sound recordings, computer programs, pictorial reproductions, drawings, or other graphic representations and works of any similar nature, not generated, produced, or composed for the first time in the performance of this contract, whether or not copyrighted, which are delivered under this contract.

(ii) The Government may duplicate, use and disclose in any manner and for any purpose whatsoever, and have others so do, all or any part of the Other Data delivered by the Contractor to the Government under this contract except as provided by subparagraph (b)(ii)(A) below.

(A) Material Covered by Copyright. The Contractor agrees to and does hereby grant to the Government, and to its officers, agents, and employees acting within the scope of their official duties, a royalty-free, non-exclusive and irrevocable license, throughout the world for Government purposes to publish, translate, reproduce, deliver, perform, dispose of, and to authorize others to do so, all Other Data now or hereafter covered by copyright. No such copyrighted matter shall be included in Other Data furnished hereunder without the written permission of the copyright owner for the Government to use such copyrighted matter in the manner described in this subparagraph (b)(ii)(A).

(c) The terms "Subject Data" and "Other Data" as defined herein do not include financial reports, cost analyses and similar information incidental to contract administration.

(d) The Contractor shall report to the Government promptly and in reasonable written detail each notice or claim of copyright infringement received by the Contractor with respect to any technical data delivered hereunder.

(End of Clause)

H14. WAGE DETERMINATION

The Service Contract Act applies under this contract to services furnished in the United States. The corresponding wage determination for the state of Alaska is included as Attachment 5. The requirements of the Act and of the contract clauses are not applicable to the services furnished outside the United States.

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SECTION I – CONTRACT CLAUSES

II. FAR CLAUSES INCORPORATED BY REFERENCE

52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

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

| CLAUSE | TITLE | DATE |
|-----------|--|---------------|
| 52.202-1 | Definitions | July 2004 |
| 52.203-3 | Gratuities | April 1984 |
| 52.203-5 | Covenant Against Contingent Fees | April 1984 |
| 52.203-6 | Restrictions On Subcontractor Sales To The Government | July 1995 |
| 52.203-7 | Anti-Kickback Procedures | July 1995 |
| 52.203-8 | Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity | January 1997 |
| 52.203-10 | Price Or Fee Adjustment For Illegal Or Improper Activity | January 1997 |
| 52.203-12 | Limitation On Payments To Influence Certain Federal Transactions | June 2003 |
| 52.204-4 | Printing/Copying Double-Sided on Recycled Paper | August 2000 |
| 52.204-7 | Central Contractor Registration | October 2003 |
| 52.209-6 | Protecting the Government's Interest When Subcontracting With Contractors Debarred, Suspended, or Proposed for Debarment | January 2005 |
| 52.215-2 | Audit and Records--Negotiation | June 1999 |
| 52.215-8 | Order of Precedence--Uniform Contract Format | October 1997 |
| 52.215-10 | Price Reduction for Defective Cost or Price Data | October 1997 |
| 52.215-12 | Subcontractor Cost or Pricing Data | October 1997 |
| 52.215-15 | Pension Adjustments and Asset Reversions | October 2004 |
| 52.215-18 | Reversion of Adjustment of Plans for Postretirement Benefits (PRB) Other Than Pensions | October 1997 |
| 52.215-19 | Notification of Ownership Changes | October 1997 |
| 52.216-7 | Allowable Cost and Payment | December 2002 |
| 52.216-8 | Fixed Fee | March 1997 |
| 52.222-1 | Notice To The Government Of Labor Disputes | February 1997 |
| 52.222-3 | Convict Labor | June 2003 |
| 52.222-26 | Equal Opportunity | April 2002 |
| 52.222-29 | Notification Of Visa Denial | June 2003 |
| 52.222-35 | Equal Opportunity For Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans | December 2001 |
| 52.222-36 | Affirmative Action For Workers with Disabilities | June 1998 |
| 52.222-37 | Employment Reports On Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans | December 2001 |
| 52.222-41 | Service Contract Act of 1965, as Amended | May 1989 |
| 52.223-5 | Pollution Prevention and Right-to-Know Information | August 2003 |
| 52.223-10 | Waste Reduction Program | August 2000 |
| 52.223-14 | Toxic Chemical Release Reporting | August 2003 |
| 52.224-1 | Privacy Act Notification | April 1984 |
| 52.224-2 | Privacy Act | April 1984 |
| 52.225-13 | Restrictions on Certain Foreign Purchases | December 2003 |
| 52.225-14 | Inconsistency Between English Version And Translation Of Contract | February 2000 |
| 52.229-8 | Taxes – Foreign Cost-Reimbursement Contracts | March 1990 |

| CLAUSE | TITLE | DATE |
|-----------------|---|---------------|
| 52.230-2 | Cost Accounting Standards | April 1998 |
| 52.230-6 | Administration of Cost Accounting Standards | November 1999 |
| 52.232-9 | Limitation On Withholding Of Payments | April 1984 |
| 52.232-17 | Interest | June 1996 |
| 52.232-22 | Limitation of Funds | April 1984 |
| 52.232-23 | Assignment Of Claims | January 1986 |
| 52.232-25 Alt I | Prompt Payment – Alternate I (February 2002) | October 2003 |
| 52.232-33 | Payment by Electronic Funds Transfer – Central Contractor Registration | October 2003 |
| 52.233-1 Alt I | Disputes -- Alternate I (December 1991) | July 2002 |
| 52.233-3 Alt I | Protest After Award – Alternate I (June 1985) | August 1996 |
| 52.237-2 | Protection of Government Buildings, Equipment, and Vegetation | April 1984 |
| 52.237-3 | Continuity of Services | January 1991 |
| 52.242-1 | Notice of Intent to Disallow Costs | April 1984 |
| 52.242-3 | Penalties for Unallowable Costs | May 2001 |
| 52.242-4 | Certification of Final Indirect Costs | January 1997 |
| 52.242-13 | Bankruptcy | July 1995 |
| 52.243-2 Alt II | Changes—Cost-Reimbursement – Alternate II (April 1984) | August 1987 |
| 52.244-2 Alt II | Subcontracts – Alternate II (August 1998) | August 1998 |
| 52.244-5 | Competition In Subcontracting | December 1996 |
| 52.244-6 | Subcontracts for Commercial Items | July 2004 |
| 52.245-5 | Government Property (Cost-Reimbursement, Time-and-Material or Labor-Hour Contracts) | May 2004 |
| 52.245-19 | Government Property Furnished "As Is" | April 1984 |
| 52.246-25 | Limitation of Liability—Services | February 1977 |
| 52.247-63 | Preference For U.S. Flag Air Carriers | June 2003 |
| 52.247-64 | Preference for Privately Owned U.S.-Flag Commercial Vessels | April 2003 |
| 52.249-6 | Termination (Cost-Reimbursement) | May 2004 |
| 52.249-14 | Excusable Delays | April 1984 |
| 52.253-1 | Computer Generated Forms | January 1991 |

12. FAR CLAUSES INCORPORATED BY FULL TEXT

52.217-8 OPTION TO EXTEND SERVICES (NOV 1999)

The Government may require continued performance of any services within the limits and at the rates specified in the contract. These rates may be adjusted only as a result of revisions to prevailing labor rates provided by the Secretary of Labor. The option provision may be exercised more than once, but the total extension of performance hereunder shall not exceed 6 months. The Contracting Officer may exercise the option by written notice to the Contractor within ten days of contract expiration.

(End of clause)

52.222-2 PAYMENT FOR OVERTIME PREMIUMS (JULY 1990)

(a) The use of overtime is authorized under this contract if the overtime premium does not exceed
* 0 or the overtime premium is paid for work-

(1) Necessary to cope with emergencies such as those resulting from accidents, natural disasters, breakdowns of production equipment, or occasional production bottlenecks of a sporadic nature;

(2) By indirect-labor employees such as those performing duties in connection with administration, protection, transportation, maintenance, standby plant protection, operation of utilities, or accounting;

(3) To perform tests, industrial processes, laboratory procedures, loading or unloading of transportation conveyances, and operations in flight or afloat that are continuous in nature and cannot reasonably be interrupted or completed otherwise; or

(4) That will result in lower overall costs to the Government.

(b) Any request for estimated overtime premiums that exceeds the amount specified above shall include all estimated overtime for contract completion and shall-

(1) Identify the work unit; e.g., department or section in which the requested overtime will be used, together with present workload, staffing, and other data of the affected unit sufficient to permit the Contracting Officer to evaluate the necessity for the overtime;

(2) Demonstrate the effect that denial of the request will have on the contract delivery or performance schedule;

(3) Identify the extent to which approval of overtime would affect the performance or payments in connection with other Government contracts, together with identification of each affected contract; and

(4) Provide reasons why the required work cannot be performed by using multi-shift operations or by employing additional personnel.

** Insert either "zero" or the dollar amount agreed to during negotiations. The inserted figure does not apply to the exceptions in paragraph (a)(1) through (a)(4) of the clause.*

(End of clause)

52.222-42 STATEMENT OF EQUIVALENT RATES FOR FEDERAL HIRES (MAY 1989)

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

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

| Employee Class | Monetary Wage | Fringe Benefits |
|---------------------------------|---------------|-----------------------------|
| Carpenter, Maintenance, WG 9 | \$22.54 | 21.8% of salaries and wages |
| Electrician, Maintenance, WG 10 | \$28.07 | 21.8% of salaries and wages |
| Plumber, Maintenance, WG 9 | \$27.79 | 21.8% of salaries and wages |

(End of clause)

52.222-49 SERVICE CONTRACT ACT-PLACE OF PERFORMANCE UNKNOWN (MAY 1989)

(a) This contract is subject to the Service Contract Act, and the place of performance was unknown when the solicitation was issued. In addition to places or areas identified in wage determinations, if any, attached to the solicitation, wage determinations have also been requested for the following: none [insert places or areas]. The Contracting Officer will request wage determinations for additional places or areas of performance if asked to do so in writing by 3 P.M. on the tenth calendar day after the date of release of this solicitation.

(b) Offerors who intend to perform in a place or area of performance for which a wage determination has not been attached or requested may nevertheless submit bids or proposals. However, a wage determination shall be requested and incorporated in the resultant contract retroactive to the date of contract award, and there shall be no adjustment in the contract price.

(End of clause)

- (a) "Hazardous material," as used in this clause, includes any material defined as hazardous under the latest version of Federal Standard No. 313 (including revisions adopted during the term of the contract).
- (b) The offeror must list any hazardous material, as defined in paragraph (a) of this clause, to be delivered under this contract. The hazardous material shall be properly identified and include any applicable identification number, such as National Stock Number or Special Item Number. This information shall also be included on the Material Safety Data Sheet submitted under this contract.

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

- (c) This list must be updated during performance of the contract whenever the Contractor determines that any other material to be delivered under this contract is hazardous.
- (d) The apparently successful offeror agrees to submit, for each item as required prior to award, a Material Safety Data Sheet, meeting the requirements of 29 CFR 1910.1200(g) and the latest version of Federal Standard No. 313, for all hazardous material identified in paragraph (b) of this clause. Data shall be submitted in accordance with Federal Standard No. 313, whether or not the apparently successful offeror is the actual manufacturer of these items. Failure to submit the Material Safety Data Sheet prior to award may result in the apparently successful offeror being considered nonresponsible and ineligible for award.
- (e) If, after award, there is a change in the composition of the item(s) or a revision to Federal Standard No. 313, which renders incomplete or inaccurate the data submitted under paragraph (d) of this clause, the Contractor shall promptly notify the Contracting Officer and resubmit the data.
- (f) Neither the requirements of this clause nor any act or failure to act by the Government shall relieve the Contractor of any responsibility or liability for the safety of Government, Contractor, or subcontractor personnel or property.
- (g) Nothing contained in this clause shall relieve the Contractor from complying with applicable Federal, State, and local laws, codes, ordinances, and regulations (including the obtaining of licenses and permits) in connection with hazardous material.
- (h) The Government's rights in data furnished under this contract with respect to hazardous material are as follows:
- (1) To use, duplicate and disclose any data to which this clause is applicable. The purposes of this right are to--
 - (i) Apprise personnel of the hazards to which they may be exposed in using, handling, packaging, transporting, or disposing of hazardous materials;
 - (ii) Obtain medical treatment for those affected by the material; and
 - (iii) Have others use, duplicate, and disclose the data for the Government for these purposes.
 - (2) To use, duplicate, and disclose data furnished under this clause, in accordance with subparagraph (h)(1) of this clause, in precedence over any other clause of this contract providing for rights in data.
 - (3) The Government is not precluded from using similar or identical data acquired from other sources.

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

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

(2) For items shipped to consignees identified by mailing address as agency depots, distribution centers or customer supply centers, the Contractor shall provide one copy of the MSDS's in or on each shipping container. If affixed to the outside of each container, the MSDS's must be placed in a weather resistant envelope.

(end of clause)

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SECTION J – LISTING OF ATTACHMENTS

J1. IDENTIFICATION OF CONTRACT ATTACHMENTS

These documents are attached in the following Sections and are made a part of this contract.

| No. | Document | No. of Pages | Section Ref. |
|------------|--|-------------------------------------|---------------------|
| 1 | Inventory of NSF Equipment | 1 worksheet, 68 printed pages | C3.5 |
| 2 | Site Plan of Summit, Greenland | 3 | C3.7.1.1 |
| 3 | National Science Foundation Software Property Asset Cost Worksheet | 1 | F3.4 |
| 4 | NSF General Property, Plant and Equipment (PP&E) Policy on Depreciation of Improvements | 1 | F3.4 |
| 5 | Wage Determination No. 1994-2017, Rev. No. 31 | 9 | H14 |

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Legend

NSF Approvals 2000
 NSF Approvals 2001
 NSF Approvals 2002
 NSF Approvals 2003
 NSF Approvals 2004

DACS 030057

Attachment 1. Inventory of NSF Equipment

| NSF# | Description | Size | Manufacture | Model# | Serial# |
|------|---------------------------|----------|-----------------|------------|-----------------|
| 1001 | phone, iridium | | Motorola | 9500 | 300001000218660 |
| 1002 | phone, iridium | | Motorola | 9500 | 300001000300290 |
| 1003 | radio, hand held, VHF-UHF | | Motorola | HT750 | 672TZG2029 |
| 1004 | radio, hand held, VHF-UHF | | Motorola | HT750 | 672TZG1997 |
| 1005 | phone, mini-m | | NEC | Planet 1 | 11249 |
| 1006 | phone, mini-m | | NEC | Planet 1 | 8865 |
| 1007 | phone, mini-m | | NEC | Planet 1 | 6721 |
| 1008 | phone, mini-m | | NEC | Planet 1 | 11648 |
| 1009 | phone, mini-m | | NEC | Planet 1 | 6699 |
| 1010 | phone, mini-m | | NEC | Planet 1 | 6547 |
| 1014 | phone, mini-m | | NEC | Planet 1 | 006341 |
| 1015 | phone, mini-m | | NEC | Planet 1 | 7012 |
| 1016 | phone, mini-m | | NEC | Planet 1 | 6420 |
| 1017 | phone, mini-m | | NEC | Planet 1 | 6009 |
| 1018 | phone, mini-m | | NEC | Planet 1 | 8991 |
| 1019 | phone, iridium | | Motorola | 9500 | 300001000213350 |
| 1020 | phone, iridium | | Motorola | 9500 | 300001000508380 |
| 1021 | computer, laptop | | Gateway | Solo | 0018428613 |
| 1023 | computer, laptop | | Gateway | Solo | 0018428612 |
| 1024 | computer, laptop | | Gateway | Solo | 0018428615 |
| 1025 | computer, laptop | | Gateway | Solo | 0018428614 |
| 1026 | radio, hand held, VHF-UHF | | Motorola | Visar | 720AUL2924 |
| 1027 | radio repeater, VHF | | Kenwood | TKR-720 | 20100135 |
| 1028 | trailer, ATV | | Goertzen | tag-a-long | n/a |
| 1029 | weatherport | 8 x 15ft | Weatherport | 800 | n/a |
| 1030 | weatherport | 8 x 20ft | Weatherport | 800 | n/a |
| 1031 | radio, hand held, VHF | | ICOM | IC-F3S-2 | 57997 |
| 1032 | radio, hand held, VHF | | ICOM | IC-F3S-2 | 58000 |
| 1033 | radio, hand held, VHF | | ICOM | IC-F3S-2 | 57999 |
| 1034 | radio, hand held, VHF | | ICOM | IC-F3S-2 | 57998 |
| 1035 | phone, mini-m | | Thrane & Thrane | TT-3060A | 99304115 |
| 1036 | phone, mini-m | | Thrane & Thrane | TT-3060A | 00301134 |
| 1037 | phone, mini-m | | Thrane & Thrane | TT-3060A | 00300016 |
| 1038 | phone, mini-m | | Thrane & Thrane | TT-3060A | 99303745 |
| 1039 | phone, mini-m | | Thrane & Thrane | TT-3060A | 99302804 |

| | | | | | |
|------|---------------------------|-------|----------|-------------|--------------|
| 1040 | GPS | | Magellan | NAV 1000 | 89501752 |
| 1042 | computer, laptop | | Gateway | Solo 2550 | B2500073358 |
| 1045 | computer, laptop | | Gateway | Solo 2550 | 0017858552 |
| 1046 | saw, table | | Roykobi | n/a | |
| 1047 | generator 2.5kw | 2.5kw | Honda | EM2500 | GOO2-6176999 |
| 1048 | generator 2.5kw | 2.5kw | Honda | EM2500 | GOO2-6177007 |
| 1049 | saw, chain | | Stihl | 044 | 143771291 |
| 1050 | saw, chain | | Stihl | 044 | 143771302 |
| 1053 | computer, laptop | | Gateway | Solo | 0017858554 |
| 1059 | computer, laptop | | Gateway | Solo | 0017858550 |
| 1061 | camera, digital | | Nikon | E950 | 399905 |
| 1062 | camera, digital | | Nikon | E950 | 399906 |
| 1065 | generator 6.5kw | 6.5kw | Onan | Emerald III | 214887 |
| 1066 | generator 6.5kw | 6.5kw | Onan | Emerald III | 113533 |
| 1067 | generator 6.5kw | 6.5kw | Onan | Emerald III | 214964 |
| 1068 | antenna tuner, automatic | | ICOM | AT-120 | 42406 |
| 1069 | antenna tuner, automatic | | ICOM | AT-120 | 29671 |
| 1070 | radio, mobile | | ICOM | M-700 | 51127 |
| 1071 | radio, hand held, VHF-UHF | | Motorola | HT750 | 672T2G2016 |
| 1072 | radio, hand held, VHF-UHF | | Motorola | HT750 | 672T2G2018 |
| 1073 | radio, hand held, VHF-UHF | | Motorola | HT750 | 672T2G 32 |
| 1074 | radio, transceiver, HF | | Kenwood | TS-950S | 10591178 |
| 1075 | radio, mobile, HF | | Kenwood | TS-950S | 10591279 |
| 1076 | weather station | | Davis | WDL-048 | DL102 |
| 1077 | radio receiver | | ICOM | IC-R7000 | 09553 |
| 1078 | radio, mobile | | ICOM | M-700 | 18156 |
| 1079 | radio, mobile | | ICOM | M-700 | 20444 |
| 1080 | radio, mobile | | ICOM | M-700 | 27207 |
| 1081 | radio, hand held, VHF-UHF | | Motorola | HT750 | 672T2G2019 |
| 1082 | radio, hand held, VHF-UHF | | Motorola | HT750 | 672T2G2030 |
| 1083 | radio, mobile | | ICOM | ps80 | 01387 |
| 1084 | radio, mobile | | ICOM | ps80 | 01391 |
| 1085 | antenna tuner, automatic | | ICOM | AT-120 | 21773 |
| 1086 | antenna tuner, automatic | | ICOM | AT-120 | 17708 |
| 1087 | power supply, radio | | Astron | RS-20A | 8702900 |
| 1088 | power supply, radio | | Astron | RS-20A | 97020503 |
| 1089 | power supply, radio | | Astron | RS-20A | 98020358 |
| 1090 | power supply, radio | | Astron | RS-20A | |
| 1091 | radio, hand held, VHF-UHF | | Motorola | Visar | 720AUL2922 |
| 1092 | radio, hand held, VHF-UHF | | Motorola | Visar | 720AUL2921 |
| 1093 | radio, hand held, VHF-UHF | | Motorola | Visar | 720AUL2930 |
| 1094 | radio, hand held, VHF-UHF | | Motorola | Visar | 720AUL2929 |
| 1095 | radio, hand held, VHF-UHF | | Motorola | Visar | 720AUL2919 |
| 1096 | radio, hand held, VHF-UHF | | Motorola | Visar | 720AUL2923 |
| 1097 | radio, hand held, VHF-UHF | | Motorola | HT600 | 651ARA2073 |

| | | | | | |
|------|---------------------------|--------------|-------------------|---------------|--------------|
| 1098 | radio, hand held, VHF-UHF | | Motorola | HT600 | 651ARA2074 |
| 1099 | radio, hand held, VHF-UHF | | Motorola | HT1000 | 751ATL2006 |
| 1100 | radio, hand held, VHF-UHF | | Motorola | HT1000 | 751APJ1416 |
| 1101 | differential T-tuner | | MFJ | MFJ-986 | 026298 |
| 1102 | differential T-tuner | | MFJ | MFJ-986 | 024868 |
| 1103 | GPS | | Sony | Pyxis IPS-360 | 21502 |
| 1104 | GPS | | Magellan | NAV 1000 | 90021967 |
| 1105 | GPS | | Garmin | 75 | 37566439 |
| 1106 | GPS | | Garmin | 75 | 37566436 |
| 1107 | GPS | | Garmin | 75 | 37566437 |
| 1108 | GPS | | Garmin | 75 | 37566583 |
| 1109 | radio, hand generator | | Southcom | SC806A | 1673 |
| 1110 | radio, hand generator | | Southcom | SC806A | 1683 |
| 1111 | radio, hand generator | | Southcom | SC806A | 3167 |
| 1112 | radio, hand generator | | Southcom | SC806A | 3168 |
| 1113 | radio, hand held | | GE | n/a | 9563076 |
| 1114 | radio, hand held | | GE | n/a | 9563063 |
| 1115 | radio, hand held | | Bendix/King | KX99 | 036293 |
| 1116 | radio, hand held | | Bendix/King | KX99 | 054165 |
| 1117 | radio, backpack | | Spilsbury | SBX-11A | 87190 |
| 1118 | radio, backpack | | Spilsbury | SBX-11A | 90277 |
| 1119 | radio, mobile | | Kenwood | TS-140S | 9010644 |
| 1120 | radio, mobile | | Kenwood | TS-140S | 10800415 |
| 1121 | radio, hand held, VHF | | ICOM | IC-A2 | 13230 |
| 1122 | radio, hand held, VHF | | ICOM | IC-A2 | 03375 |
| 1123 | radio, hand held | | ICOM | IC-A21 | 09313 |
| 1124 | radio, hand held | | ICOM | IC-A20 | 47931 |
| 1125 | radio, hand held | | Tempo | S15 | 14453 |
| 1126 | radio, hand held, VHF-UHF | | Motorola | Visar | 720AUL2917 |
| 1127 | radio, hand held, VHF-UHF | | Motorola | Visar | 720AUL2928 |
| 1128 | radio, hand held, VHF-UHF | | Motorola | Visar | 720AUL2926 |
| 1129 | radio, hand held, VHF-UHF | | Motorola | Visar | 720AUL |
| 1130 | radio, hand held, VHF-UHF | | Motorola | Visar | 720AUL2916 |
| 1191 | generator 3.5kw | 3.5kw | Honda | EM3500X | GC04-1153187 |
| 1193 | pump, water | 160gpm | Briggs & Stratton | AP520 | HN1130855 |
| 1194 | heater, natural/LP | 32000 btu | Empire | DV232MH | L27 40149 |
| 1196 | refrigerator, electric | | GE | FUF 17DACRWH | FV170937 |
| 1197 | refrigerator, electric | | GE | TDX9SNYAWH | ZT07548315 |

| | | | | | |
|------|------------------------------|---------------|--------------------|----------------|-------------------|
| 1198 | oven/range, propane | | White Westinghouse | n/a | n/a |
| 1199 | refrigerator, propane | | Danby | n/a | F7054831 |
| 1200 | heater, natural/LP | 32000 btu | Empire | DV2321MH | L27 40150 |
| 1201 | tank, fuel, w/ stand | 300gal | Greer | n/a | n/a |
| 1202 | tank, fuel, w/ stand | 300gal | Greer | n/a | n/a |
| 1203 | All Terrain Vehicle | 4 x 4 | Kawasaki | 300cc | JKALF8C18BW567456 |
| 1204 | generator 5kw | 5.0kw | Honda | EM5000S | GC05-2986009 |
| 1205 | generator 2.5kw | 2.5kw | Honda | EM2500 | GC02-5219861 |
| 1206 | generator 2.5kw | 2.5kw | Honda | EM2500 | GC02-5061544 |
| 1207 | freezer, chest | 115v, 60Hz | Roper | RH1500RAW00 | EWDO87720BA9402 |
| 1208 | freezer | | Amana | SX25NW | 9406289180 |
| 1209 | freezer, propane | | Dometic | RC65 | 920 23 34 |
| 1210 | generator 3kw | 3.0kw | Onan | K300 | 225830 |
| 1211 | generator 3kw | 3.0kw | Powermate | PM3000 | 315592A |
| 1212 | oven/range, propane | | Vulcan | 36L | 481038478 ER |
| 1213 | oven, drying | | Labine | n/a | 744 |
| 1214 | pump, water | | Goulds | J55 | D9528088 |
| 1215 | fan, exhaust | | Viking | n/a | n/a |
| 1216 | sink, 3 tub, stainless steel | 91" | n/a | n/a | n/a |
| 1217 | radio, hand held, VHF | | Kenwood | TK-260G | 20800411 |
| 1219 | radio, hand held, VHF | | Kenwood | TK-260G | 20800412 |
| 1220 | radio, hand held, VHF | | Kenwood | TK-260G | 20800413 |
| 1221 | radio, hand held, VHF | | Kenwood | TK-260G | 20800414 |
| 1222 | radio, hand held, VHF | | Kenwood | TK-260G | 20800415 |
| 1223 | radio, hand held, VHF | | Kenwood | TK-260G | 20800416 |
| 1224 | radio, hand held, VHF | | Kenwood | TK-260G | 20800417 |
| 1225 | radio, hand held, VHF | | Kenwood | TK-260G | 20800418 |
| 1226 | radio, hand held, VHF | | Kenwood | TK-260G | 20800419 |
| 1227 | radio, hand held, VHF | | Kenwood | TK-260G | 20800420 |
| 1228 | radio, hand held, VHF | | Kenwood | TK-260G | 20800445 |
| 1229 | radio, hand held, VHF | | Kenwood | TK-260G | 20800446 |
| 1230 | radio, hand held, VHF | | Kenwood | TK-260G | 20800447 |
| 1231 | radio, hand held, VHF-UHF | | Motorola | HT750 | 672T262017 |
| 1232 | printer | | DeskJet | 520 | US420140JK |
| 1233 | copier | | RICOH | FT3113 | |
| 1234 | telex, inmarsat-c | | Thrane & Thrane | TT-9805 | 924072 |
| 1235 | power supply, telex | | Thrane & Thrane | TT-3680A | 894820 |
| 1236 | jack, pallet | | Clark | HWP60E | WHP4650296620 FA |
| 1237 | tripod, aluminum | | n/a | n/a | n/a |
| 1238 | phone, mini-m | | NEC | Planet 1 | 6239 |
| 1239 | computer, laptop | | Compaq | 3/25C | CNT7SMB24B |
| 1240 | antenna, telex | | Thrane & Thrane | TT-3001B | 927763 |
| 1241 | telex, GPS receiver | | Thrane & Thrane | TT-3012A, 9803 | 924451 |

| | | | | | |
|------|---|--------|------------------------|---------------|---------------------|
| 1242 | telex, desktop computer | | Gateway | 4DX-33 | 2308605 |
| 1244 | sled, cargo | | n/a | n/a | n/a |
| 1245 | snowmachine | | Arctic Cat | BearCat WT 55 | 9717963 |
| 1246 | drill, power head, jiffy | | Feldmann | 30, 3hp | 0109404 |
| 1247 | drill, power head, jiffy | | Feldmann | 30, 3hp | 0109459 |
| 1248 | snowmachine | | Bombadier/Skidoo | Skandic | 368800470 |
| 1249 | truck | | Ford | V, PU 87 | 2FTJW36H9HCA34976 |
| 1250 | snow blower | | Yamaha | YS 828 | 7KF270316 |
| 1251 | bobcat | | Melroe | 7753 | 509630936 |
| 1252 | truck | | Ford | IT, '92 | A86212, 2FDKF37H3NC |
| 1253 | radio, hand held, VHF, ground/air | | ICOM | IC-A3 | 06312 |
| 1254 | radio, hand held, VHF, ground/air | | ICOM | IC-A3 | 06313 |
| 1255 | radio, hand held | | Maxon | QPA-600 | 970830086 A |
| 1256 | radio, hand held, VHF-UHF | | Maxon | SP-12OU2 | 970830090 A |
| 1257 | radio, hand held, VHF-UHF | | Maxon | SP-12OU2 | 970830089 A |
| 1258 | radio, hand held, VHF-UHF | | Maxon | SP-12OU2 | 970104858 |
| 1259 | power supply, radio | | Astron | RS-12A | 99091858 |
| 1260 | power supply, radio | | Astron | RS-20A | 97090744 |
| 1261 | computer, laptop | | Toshiba | T4850CT | 01524646 |
| 1262 | telex, inmarsat-c | | Thrane & Thrane | Sailor H1622A | 9605950 |
| 1263 | antenna, telex | | Thrane & Thrane | 403001-201 | 9704326 |
| 1264 | oven/range, convection | | Lang | n/a | |
| 1265 | oven/range, propane | | Wolf | CH-6-29 | 73563-012D91 |
| 1266 | mixer, industrial | | Hobart | A200 | 042795 |
| 1267 | tractor | | Caterpillar | D6M LGP | 4JN1505 |
| 1268 | snowmachine | | Arctic Cat | BearCat WT 55 | 9717666 |
| 1269 | snowmachine | | Bombadier/Skidoo | Skandic 2 SLT | 368800419 |
| 1270 | snowmachine | | Arctic Cat | BearCat WT 55 | 9718380 |
| 1271 | snowmachine | | Bombadier/Skidoo | Alpine | 333800153 |
| 1272 | snowmachine | | Bombadier/Skidoo | Alpine 2 | 334800263 |
| 1274 | radio, mobile | | Motorola | MaxTrac 300 | 428FPJ8059 |
| 1275 | radio, hand held | | Southcom | SC130E | E243 |
| 1276 | antenna, telex | | Thrane & Thrane | 403001-202 | 9619061 |
| 1277 | charger, blue battery | | Miller | 903041 | KA747195 |
| 1278 | snow blower | | Yanmar | LMC 25; 7HP | YSR2610H |
| 1279 | generator 2.5kw | 2.5kw | Honda | EM2500 | GC02-2813754 |
| 1280 | generator 70kw | 70.0kw | Perkins | YB35012 | U639356B |
| 1282 | generator module, 2 ea 70kw, w/ snowmelter | | Pacific Detroit Diesel | YB35012 | U638141B, U639356B |
| 1283 | snowmachine | | Bombadier/Skidoo | Skandic 2 | 367500933 |
| 1284 | generator | | Powergard | OHU50 | 7913631 |
| 1285 | Tucker, w/ U-Blade | 8.5ft | Tucker | 1644-C | 3873783 |
| 1286 | bag, gamow | | Gamow | n/a | n/a |
| 1287 | heater, furnace SYS | | Highboy | 1167-18-2 | A9003195 |
| 1288 | heater, herman nelson | | Aero-Tech | BT400-45 | 7815 |
| 1289 | heater, herman nelson | | Aero-Tech | BT400-45 | 7273 |
| 1290 | generator module, 2 ea. 36kw, w/ snowmelter | | Pacific Detroit Diesel | LJ30120 | US42918W, US42921W |
| 1292 | track loader | | CAT | 931C | 2AK00034 |

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|------|----------------------------------|---------|---------------------|---------------------|---------------|
| 1293 | groomer, snow | 8ft | Maxey | 8" Colorado Special | CS-97-MMC-004 |
| 1294 | sled, cargo | | Tucker-Cat | 4000 | 3873783T |
| 1295 | sled, cargo, metal box | | Tucker-Cat | 4000 | |
| 1296 | snowmachine | | Bombadier/Skidoo | Alpine 2 | 334500738 |
| 1297 | heater, herman nelson | | Aero-Tech | BT400-10 | 44706 |
| 1298 | snowmachine | | Arctic Cat | BearCat WT 55 | 9718381 |
| 1299 | snowmelter | | Adda | n/a | n/a |
| 1300 | heater, herman nelson | | Aero-Tech | REL300 | 1095 |
| 1301 | sled, cargo | | Polar Associate | n/a | |
| 1302 | sled, cargo | | Polar Associate | n/a | |
| 1303 | sled, cargo | | Polar Associate | n/a | |
| 1304 | sled, cargo | | Polar Associate | n/a | 603-332-0999 |
| 1305 | sled, cargo | | Polar Associate | n/a | 663-032-0999 |
| 1306 | sled, cargo | | Polar Associate | n/a | |
| 1307 | sled, cargo | | Polar Associate | n/a | |
| 1308 | generator 6.5kw | 6.5kw | Onan | Emerald III | 113598 |
| 1309 | sled, cargo | | Polar Associate | n/a | |
| 1310 | sled, cargo | | Polar Associate | n/a | |
| 1311 | telex, inmarsat-c | | Thrane & Thrane | Sailor H1622A | 9605949 |
| 1312 | computer, laptop | | Toshiba | T4850CT | 1045630 |
| 1313 | power supply, radio | | Astron | RS-12A | 9106435 |
| 1314 | bladder, fuel | 5000gal | Aero Tech Lab | 105739 | |
| 1315 | bladder, fuel | 5000gal | Aero Tech Lab | 105739 | 20498427 |
| 1318 | computer, laptop | | Compaq | Armada | 746HYC31497 |
| 1319 | power supply, radio | | Astron | SL-11 | 9404875 |
| 1320 | telex, inmarsat-c | | Thrane & Thrane | TT-9805 | 924069 |
| 1321 | antenna, telex | | Thrane & Thrane | TT-3001B | 927711 |
| 1322 | Spryte | | Logan Manufacture | 1200 | LIA5002165 |
| 1323 | snowmachine | | Bombadier/Skidoo | Alpine 2 | 334800257 |
| 1326 | generator 3.5kw | 3.5kw | Honda | 3500SXX | GOO4-3941710 |
| 1327 | groomer, snow | | Snowcraft | custom | custom |
| 1328 | heater, herman nelson | | Aero-Tech | BT400-45 | 45-7882 |
| 1329 | generator 3.5kw | 3.5kw | Honda | 3500SXX | GOO4-3941668 |
| 1330 | antenna, telex | | Thrane & Thrane | TT-3001B | 927769 |
| 1331 | radio, hand held | | Southcom | SC120 | 4580 |
| 1332 | Void | | | | |
| 1333 | power supply, radio | | Astron | RS-12A | 9106416 |
| 1334 | telex, inmarsat-c | | Thrane & Thrane | TT-3020A | 894163 |
| 1335 | generator 1.8kw | 1.8kw | Honda | EM1800XK1 | |
| 1336 | track loader | | CAT | 931C | K00034 |
| 1337 | wind turbine | | Bergey | BWC-1500-24 | 15000197 |
| 1338 | wind generator, VCS-1.5 | | Bergey | BWC-1500-24 | 15FO24517 |
| 1339 | wind generator, Inverter/Charger | | Trace | DR2424 | V01933 |
| 1340 | wind generator, Inverter/Charger | | Trace | DR2424 | |
| 1341 | computer, desktop | | Gateway | GP7-550 | 0018222221 |
| 1342 | camera, digital | | Nikon | 990 | 3026774 |
| 1343 | scaffolding/gantry | | | n/a | |
| 1344 | hole digger | 16" | Polar Research Lab. | 440 | n/a |
| 1345 | millvan | 20ft | Royal Arctic | n/a | RALU2014832 |
| 1346 | jack, pallet | | Multiton | 5000lbs. | 2389260 |
| 1347 | printer, ink jet | | Deskjet | 520 | |
| 1348 | printer, ink jet | | Epson | 660 | |

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|------|--------------------------|---------------|-----------------------------------|----------------------|-------------------|
| 1349 | printer, ink jet | | Epson | 660 | BS9E012906 |
| 1350 | printer, ink jet | | Epson | 660 | BS9E012641 |
| 1351 | printer, ink jet | | Epson | 660 | |
| 1352 | radio receiver | | Telonics | TR-2A | 883868 |
| 1353 | radio system, HF SSB | | | SSB | 69&70 |
| 1354 | radio, hand held | | Southcom | SC120 | 4587 |
| 1355 | welder, oxygen/acetylene | | Miller | 903014 | KA747195 |
| 1356 | sled, cargo | | Nansen | n/a | n/a |
| 1357 | snowmachine | | Bombadier/Skidoo | Nordik 60 | 323200071 |
| 1358 | snowmachine | | Bombadier/Skidoo | Alpine | 334200239 |
| 1359 | tent, western habitat | 14ft | Western Shelter | HO14 | n/a |
| 1360 | saw, chop, miter | 12in | DeWalt | DW 708 | 153760 |
| 1361 | snowmachine | 611lbs | Bombadier/Skidoo | Skandic, SWT | YK3S16005YR000326 |
| 1362 | snowmachine | 611lbs | Bombadier/Skidoo | Skandic, SWT | YK3S16003YR000325 |
| 1363 | bladder, fuel | 10,000gal | Aero Tech Lab | 105745 | 19494815 |
| 1364 | bladder, fuel | 10,000gal | Aero Tech Lab | 105745 | 19494061 |
| 1365 | bladder, fuel | 500gal | Aero Tech Lab | 105722 | 472813 |
| 1366 | weather station | | Weather Wizard | 7425W, wireless | WC00111A02 |
| 1367 | weatherport | 8 x 25ft | Weatherport | 800 | n/a |
| 1368 | millvan | 20ft | Hyundai Mexico | HDM-1CC-4530 | CMCU2056473 |
| 1369 | incinolet toilet | | Research Products/ Blankenship | TR-3600watt | 26722 |
| 1370 | weatherport | 8 x 20ft | Weatherport | 800 | n/a |
| 1372 | module, big house | 56 x 26ft | Amos Winter Homes | 56'x26' Office | custom |
| 1373 | module, Greenhouse | 8 x 36ft | ATCO | 8x36 Living Quarters | 03697 0868 |
| 1375 | computer, desktop | | Dell | XPS T600 | 7QG500B |
| 1376 | VSAT, satellite dish | | Harris Maritime Comms. | n/a | |
| 1377 | hammer, demolition drive | | Demolition | 11312E | 081000021 |
| 1378 | weatherport | 8 x 12ft | Weatherport | 800, mobile | n/a |
| 1379 | LAN base station | | Lucent | 012858-A | 00UT02206625 |
| 1380 | printer, laser | | Lexmark | Optra E312 | 1010332 |
| 1381 | pump, fuel, electric | 12v, 1/4hp | Fill-Rite | FR1210C | n/a |
| 1382 | radio, base station | | Kenwood | LTR-32 | |
| 1383 | radio, mobile/base A/C | | ICOM | IC-A200 | 024733 |
| 1384 | radio, mobile | | Kenwood | LTR-320580 | 580 |
| 1385 | radio, mobile | | Kenwood | TK-280K | 11000766 |
| 1386 | server | | Penguin | 600MHz | P300758 |
| 1387 | UPS | | American Power Conversion | SU1400NET | QS9930113139 |
| 1388 | UPS | | American Power Conversion | SU1400NET | n/a |
| 1389 | UPS, digital | | American Power Conversion | 1000VA | |
| 1390 | weather station | | Weather Wizard | 7425W, wireless | WC00111A04 |
| 1391 | weatherport | 15 x 20ft | Weatherport | 1500 | n/a |
| 1392 | weatherport | 15 x 40ft | Weatherport | 1500 | n/a |
| 1393 | weatherport | 8 x 10ft | Weatherport | 800 | n/a |
| 1394 | weatherport | 8 x 15ft | Weatherport | 800 | n/a |
| 1395 | weatherport | 8 x 25ft | Weatherport | 800 | n/a |

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|------|-------------------------------------|-----------|--------------------|--------------|--------------|
| 1396 | weatherport | 8 x 25ft | Weatherport | 800 | n/a |
| 1397 | GPS | | Garmin | | 3147A00633 |
| 1398 | GPS | | Garmin | | 3108A02500 |
| 1399 | generator 6kw | 6.0kw | Onan | 6DJBFB358827 | KPOO358827 |
| 1400 | weather fax | | Weatherfax | | 30147 |
| 1401 | freezer | | Kenmore | 253.29711990 | WB93523716 |
| 1402 | freezer | | Kenmore | 253.29711990 | WB93523654 |
| 1403 | freezer | | Kenmore | 253.29711990 | WB93523662 |
| 1404 | freezer | | Kenmore | 253.29711990 | WB93523658 |
| 1405 | generator, hybrid electrical system | | Energia Total | firefly | 050003 |
| 1406 | liquid scintillation counter | | Packard Instrument | A210000 | 424761 |
| 1407 | refrigerator, electric | | Kenmore | 25369823990 | BA01411059 |
| 1408 | refrigerator, electric | | Kenmore | 25369801990 | BA01814781 |
| 1409 | refrigerator, electric | | Kenmore | 25369822890 | BA01710237 |
| 1410 | refrigerator, electric | | Kenmore | 25369822890 | BA01710187 |
| 1411 | generator 5kw | 5.0kw | Honda | EM5000S | GC05-2986004 |
| 1412 | weatherport | 18 x 25ft | Weatherport | 1800 | n/a |
| 1413 | weatherport | 18 x 25ft | Weatherport | 1800 | n/a |
| 1414 | weatherport | 8 x 15ft | Weatherport | 800 | n/a |
| 1415 | weatherport | 8 x 15ft | Weatherport | 800 | n/a |
| 1416 | boonie barn | 12 x 16ft | Boonie Barn | n/a | n/a |
| 1417 | camera, digital | | Nikon | 990 | |
| 1418 | computer, laptop | | Gateway | Solo | 0017858551 |
| 1419 | jack, pallet | | Lift-Rite | 5000lbs. | 0200 |
| 1420 | radio, hand held, VHF-UHF | | ICOM | F3S | 064908 |
| 1421 | radio, hand held, VHF-UHF | | ICOM | F3S | 064906 |
| 1422 | radio, hand held, VHF-UHF | | ICOM | F3S | 064907 |
| 1423 | phone, mini-m | | NEC | Planet 1 | 8900 |
| 1424 | telex, inmarsat-c | | Thrane & Thrane | | M58162 |
| 1425 | weatherport | 12 x 25ft | Weatherport | 1200os | n/a |
| 1426 | weatherport | 12 x 25ft | Weatherport | 1200os | n/a |
| 1427 | weatherport | 12 x 25ft | Weatherport | 1200os | n/a |
| 1428 | weatherport | 12 x 25ft | Weatherport | 1200os | n/a |
| 1429 | weatherport | 12 x 25ft | Weatherport | 1200os | n/a |
| 1430 | weatherport | 15 x 30ft | Weatherport | 1500 | n/a |
| 1431 | weatherport | 15 x 30ft | Weatherport | 1500 | n/a |
| 1432 | weatherport | 8 x 10ft | Weatherport | 800 | n/a |
| 1433 | weatherport | 8 x 15ft | Weatherport | 800 | n/a |
| 1434 | weatherport | 8 x 25ft | Weatherport | 800 | n/a |
| 1435 | weatherport | 8 x 25ft | Weatherport | 800 | n/a |
| 1436 | weatherport | 8 x 25ft | Weatherport | 800 | n/a |

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| 1437 | weatherport | 8 x 25ft | Weatherport | 800 | n/a |
| 1438 | weatherport | 8 x 25ft | Weatherport | 800 | n/a |
| 1439 | weatherport | 8 x 25ft | Weatherport | 800 | n/a |
| 1440 | weatherport | 8 x 25ft | Weatherport | 800 | n/a |
| 1441 | incinolet toilet | | Research Products/ Blankenship | TR-3600watt | 26723 |
| 1442 | shotgun, 12 gauge | | Remington | H70 | C612805M |
| 1443 | GPS | | Magellan | 12CX | 95924127 |
| 1444 | GPS | | Magellan | 12CX | 95924133 |
| 1445 | camera, video recorder | | Sony | CCD-TR84 | 25233 |
| 1446 | altimeter/barometer | | Vaisala | AIR-HB-1A | 0L4869 |
| 1447 | drill, power head, jiffy | | Feldmann | 30, 3hp | 0109403 |
| 1448 | generator 2.5kw | 2.5kw | Honda | EM2500XK1 | |
| 1449 | generator 2.5kw | 2.5kw | Honda | EM2500XK1 | |
| 1450 | water treatment plant, portable | | US Filter | V2014GN | 1EP4V2920X1001374 |
| 1451 | radio, hand held, VHF | | Kenwood | TK-260G | 20700641 |
| 1452 | radio, hand held, VHF | | Kenwood | TK-260G | 20700642 |
| 1453 | radio, hand held, VHF | | Kenwood | TK-260G | 20700643 |
| 1454 | radio, hand held, VHF | | Kenwood | TK-260G | 20700644 |
| 1455 | radio, hand held, VHF | | Kenwood | TK-260G | 20700649 |
| 1456 | radio, hand held, VHF | | Kenwood | TK-260G | 20700650 |
| 1457 | radio, hand held, VHF | | Kenwood | TK-260G | 20700651 |
| 1458 | radio, hand held, VHF | | Kenwood | TK-260G | 20700652 |
| 1459 | radio, hand held, VHF | | Kenwood | TK-260G | 20700653 |
| 1460 | radio, hand held, VHF | | Kenwood | TK-260G | 20700654 |
| 1461 | radio, hand held, VHF | | Kenwood | TK-260G | 20700655 |
| 1462 | radio, hand held, VHF | | Kenwood | TK-260G | 20700656 |
| 1463 | radio, hand held, VHF | | Kenwood | TK-260G | 20700657 |
| 1464 | radio, hand held, VHF | | Kenwood | TK-260G | 20700658 |
| 1465 | radio, hand held, VHF | | Kenwood | TK-260G | 20700659 |
| 1466 | radio, hand held, VHF | | Kenwood | TK-260G | 20700660 |
| 1467 | radio, mobile/base A/C | | ICOM | IC-A200 | 03405 |
| 1468 | telex, inmarsat-c | | Thrane & Thrane | TT-9805 | 924042 |
| 1469 | antenna, telex | | Thrane & Thrane | 403005-001 | 9620773 |
| 1470 | solar panel for iridium | | Motorola | SPN4567B | 001639 |
| 1471 | computer, laptop | | IBM | ThinkPad | 78-AAGZ7 |
| 1472 | computer, laptop | | IBM | ThinkPad | 78-AAFF0 |
| 1473 | phone, iridium | | Motorola | 9500 | 300001000476090 |
| 1474 | phone, iridium | | Motorola | 9500 | 30000100073960 |
| 1475 | phone, iridium | | Motorola | 9500 | 30000100074120 |
| 1476 | phone, iridium | | Motorola | 9500 | 30000100079530 |
| 1477 | phone, iridium | | Motorola | 9500 | 300001000179550 |
| 1478 | phone, iridium | | Motorola | 9500 | 300001000272670 |
| 1479 | phone, iridium | | Motorola | 9500 | 300001000363540 |
| 1480 | phone, iridium | | Motorola | 9500 | 300001000469260 |
| 1481 | phone, iridium | | Motorola | 9500 | 300001000572900 |
| 1482 | phone, iridium | | Motorola | 9500 | 300001000868580 |
| 1483 | phone, iridium | | Motorola | 9500 | 300001000074570 |
| 1484 | solar panel for iridium | | Motorola | SPN4567B | 004567A |
| 1485 | phone, Comsat | | Thrane & Thrane | TT-3080A | 99420248 |
| 1486 | phone, Comsat | | Thrane & Thrane | TT-3080A | 99420732 |
| 1487 | phone, iridium | | Motorola | 9500 | 300001000076210 |
| 1488 | phone, iridium | | Motorola | 9500 | 300001000172800 |
| 1489 | phone, iridium | | Motorola | 9500 | 300001000360830 |
| 1490 | phone, iridium | | Motorola | 9500 | 300001000465240 |
| 1491 | radio, hand held, VHF | | Kenwood | TK-260G | 20800448 |

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|------|---|-----------------|------------------------|---------------------|----------------------|
| 1492 | radio, hand held, VHF | | Kenwood | TK-260G | 20800449 |
| 1493 | radio, hand held, VHF | | Kenwood | TK-260G | 20800450 |
| 1494 | radio, base station, VHF-FM | | Kenwood | TK-760G | 21000231 |
| 1495 | radio, base station, VHF-FM | | Kenwood | TK-760G | 21000232 |
| 1496 | power supply, radio | | ICT Ltd. | ICT12012-11AX | 11AX174910 |
| 1497 | power supply, radio | | ICT Ltd. | ICT12012-11AX | ICT12012-11AX |
| 1498 | phone, iridium | | Motorola | 9500 | 300001000476760 |
| 1499 | phone, iridium | | Motorola | 9500 | 300001000665000 |
| 1500 | phone, iridium | | Motorola | 9500 | 300001000671550 |
| 1501 | fork lift | | Yale | ERP030TDN36SE077 | N538268 |
| 1502 | generator | 125kw | Caterpillar | 3116A | 1NJ00562 |
| 1503 | generator | 125kw | Caterpillar | 3116A | 1NJ00563 |
| 1504 | fork lift | | Caterpillar | IT28G | 8CR01860 |
| 1505 | generator module, 1ea. 50kw, 1ea. 80kw | | Pacific Detroit Diesel | 50ROZJ & 80ROZJ | 0622347, 0624236 |
| 1506 | building, portable | 10 x 60ft | ATCO | lab module A | 160994001 |
| 1507 | building, portable | 10 x 60ft | ATCO | lab module A | 160993996, 160993995 |
| 1508 | building, portable | 10 x 60ft | ATCO | lab module B | 160994000, 160993999 |
| 1509 | building, portable | 10 x 60ft | ATCO | lab module B | 160993997, 160993998 |
| 1510 | shotgun, 12 gauge | | Mossberg | 500 Persuader | P696812 |
| 1511 | boonie barn | 12 x 16ft | Boonie Barn | n/a | n/a |
| 1512 | heater, electric | | Toyostove | Laser 73I | K07FF731 |
| 1513 | trailer van, truck | 40ft | Utility Trailer Co. | n/a | 1UYVS2450EU964102 |
| 1514 | trailer van, truck | 40ft | Alloy Trailers | TVT-46 | 1ALSR0285FS085205 |
| 1515 | generator, thermo-electric | | Teledyne | 50 watt | |
| 1516 | generator, thermo-electric | | Teledyn | 50 watt | |
| 1517 | building, for thermoelectric gen. | 8 x 12 x 8ft | | 8'x12'x8' | |
| 1518 | TV/VCR | | Sharp | 13VT-L100 | 523269 |
| 1519 | generator 5kw | 5.0kw | Honda | EM5000S | |
| 1520 | All Terrain Vehicle | 4 x 4 | Yamaha | 300cc, Timberwolf | JY44KDW01WA115282 |
| 1521 | All Terrain Vehicle | 4 x 4 | Yamaha | 300cc, Timberwolf | JY44KDW03WA117406 |
| 1522 | millvan | 20ft | n/a | n/a | |
| 1523 | snowmachine | | Polaris | Wide Track LX | 4XASU4BSOYC019250 |
| 1524 | snowmachine | | Polaris | Wide Track LX | 4XASU4BS4YC019493 |
| 1525 | All Terrain Vehicle | 4 x 4 | Kawasaki | 300cc | JKALF8C17WB567456 |
| 1526 | trailer, ATV | | Goertzen | tag-a-long, 30-60-M | 48918 |
| 1527 | phone, iridium | | Motorola | 9500 | SWF3180JCL4A488D5 |
| 1528 | phone, iridium | | Motorola | 9500 | SWF3180JBL4A458E5 |
| 1529 | All Terrain Vehicle | 4 x 4 | Suzuki | 300cc, King Quad | JSAAK43A1Y2104016 |
| 1530 | All Terrain Vehicle | 4 x 4 | Suzuki | 300cc, King Quad | JSAAK43A5Y2103984 |
| 1532 | generator 1kw | 1.0kw | Honda | EX1000 | GC03-1157665 |
| 1533 | generator 5kw | 5.0kw | Honda | EM5000S | GC05-2986006 |

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|------|--------------------------------------|-----------|-----------------------------------|---------------------|-------------------|
| 1534 | trailer, ATV | | Goertzen | aluminum | 90512395 |
| 1535 | boat, outboard motor | | Evenrude | E55RCNB | C7152921 |
| 1536 | radio repeater, VHF | | Kenwood | TKR-720 | 91100019 |
| 1537 | radio, base station | | ICOM | IC-F320 | 57456 |
| 1538 | camera, digital | | Hewlett Packard | 618 Photo Smart | 6092216 |
| 1539 | camera, digital | | Hewlett Packard | 618 Photo Smart | 6054258 |
| 1540 | camera, digital | | Hewlett Packard | 618 Photo Smart | 6054146 |
| 1541 | oven/range, propane | | Crosley | C31000PAW | 33294518WW |
| 1542 | refrigerator, electric | 18 cu. Ft | GE | TBX18-GABKRWW | ST588757 |
| 1543 | generator, hybrid electrical system | | Energia Total | firefly | 050004 |
| 1544 | generator 3.5kw | 3.5kw | Honda | EM3500 | EA6-3104915 |
| 1545 | generator 5kw | 5.0kw | Honda | 5000 | EAAT7-1159719 |
| 1546 | incinolet toilet | | Research Products/ Blankenship | TR-3600watt | 26721 |
| 1547 | trailer, ATV | | Goertzen | tag-a-long, 30-60-M | 48916 |
| 1548 | generator 1kw | 1.0kw | Honda | EX1000 | EA4-1140423 |
| 1549 | generator 1kw | 1.0kw | Honda | EU1000i | EZGA-1042322 |
| 1551 | oven, drying | | VWR Scientific Products | 1380FM | 1200399 |
| 1552 | radio, hand held, VHF, ground/air | | ICOM | IC-A3 | 16868 |
| 1553 | radio, hand held, VHF, ground/air | | ICOM | IC-A3 | 16870 |
| 1554 | radio, hand held, VHF, ground/air | | ICOM | IC-A3 | 17147 |
| 1555 | radio, mobile | | Kenwood | TK-280K | 11100470 |
| 1556 | radio, mobile | | Kenwood | TK-280K | 20200274 |
| 1557 | radio, hand held, VHF, ground/air | | ICOM | IC-A3 | 17176 |
| 1558 | radio, hand held, VHF, ground/air | | ICOM | IC-A3 | 17177 |
| 1559 | radio, hand held, VHF, ground/air | | ICOM | IC-A3 | 16959 |
| 1560 | solar panel for iridium | | Motorola | SPN4567B | 0022552 |
| 1561 | fork lift | | Caterpillar | T300 | 5GB08384 |
| 1562 | snowmachine | 611lbs | Bombadier/Skidoo | Skandic, SWT | YK3S209832R000156 |
| 1563 | generator 3kw | 3.0kw | Honda | EB3000i | GCAE-1729303 |
| 1564 | generator 5kw | 5.0kw | Honda | EB5000 | GC05-3452484 |
| 1566 | generator 1kw | 1.0kw | Honda | EU1000i | EZGA-1060770 |
| 1567 | millvan | 20ft | Busby MFG. INC. | PS-CT-8220-AM-PL | BULI100567 |
| 1568 | millvan | 20ft | Hyundai Mexico | HDM-1CC-4530 | CMCU205106 |
| 1569 | millvan | 20ft | | | DMCU100674 |
| 1571 | generator 1kw | 1.0kw | Honda | EU1000i | EZGA-1059461 |
| 1572 | generator 5kw | 5.0kw | Honda | EB5000 | GC05-3059663 |
| 1573 | generator 3kw | 3.0kw | Honda | EU3000is | EZGF-1040059 |

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|------|-----------------------|--------------|--------------------|---------------------|--------------------|
| 1574 | generator 3.5kw | 3.5kw | Honda | EM3500X | GC04-1153103 |
| 1575 | module, Incubation | 18 x 20ft | VPR | 1820 | IM0001 |
| 1577 | sled, cargo, metal | 7ft5in x 23' | American Boiler | custom | custom |
| 1578 | sled, cargo, metal | 7ft5in x 23' | American Boiler | custom | custom |
| 1579 | computer, laptop | | IBM | ThinkPad | 78-HMMH3 |
| 1580 | computer, laptop | | IBM | ThinkPad | 78-HMMH2 |
| 1581 | phone, mini-m | | Thrane & Thrane | TT-3060A | 99306140 |
| 1582 | phone, mini-m | | Thrane & Thrane | TT-3060A | 99306897 |
| 1583 | phone, mini-m | | Thrane & Thrane | TT-3060A | 00304891 |
| 1584 | phone, mini-m | | Thrane & Thrane | TT-3060A | 00310021 |
| 1585 | phone, mini-m | | Thrane & Thrane | TT-3060A | 00310059 |
| 1586 | phone, mini-m | | Thrane & Thrane | TT-3060A | 00310099 |
| 1587 | phone, mini-m | | Thrane & Thrane | TT-3060A | 00310153 |
| 1588 | phone, mini-m | | Thrane & Thrane | TT-3060A | 00310217 |
| 1589 | phone, mini-m | | Thrane & Thrane | TT-3060A | 00310367 |
| 1590 | phone, mini-m | | Thrane & Thrane | TT-3060A | 00310374 |
| 1601 | camera, digital | | Nikon | 5000 | 3515584 |
| 1602 | heater, herman nelson | | Aero-Tech | BT400-10 | 10-5032 |
| 1603 | computer, laptop | | IBM | ThinkPad | 78-HMMK9 |
| 1604 | computer, laptop | | IBM | ThinkPad | 78-HMML2 |
| 1605 | computer, laptop | | IBM | ThinkPad | 78-HMMK8 |
| 1606 | generator 5kw | 5.0kw | Honda | EB5000XK1 | |
| 1607 | GPS | | Garmin | GPS III Plug | |
| 1608 | GPS | | Garmin | GPS III Plus | |
| 1609 | Piston Bully | | Kaasorbohrer | PB100 | 100982.10341K30000 |
| 1610 | tent, arctic oven | 10x20ft | Alaska Tent & Tarp | T01020 | n/a |
| 1611 | tent, western habitat | 20ft | Western Shelter | HO20 | n/a |
| 1612 | GPS | | Garmin | eTrex | 77627405 |
| 1613 | GPS | | Garmin | eTrex | 77627413 |
| 1614 | GPS | | Garmin | eTrex | 77627432 |
| 1617 | generator 1kw | 1.0kw | Honda | EU1000i | EZGA-1100089 |
| 1618 | groomer, snow | 10' | Maxey | 10 ft Idaho Special | 287 |
| 1621 | track loader, 933C | | CAT | 3046 | CAT0933CE5JS00501 |
| 1622 | millvan | 20ft | Genstar | HD-1CC-951 | GSTU3349901 |
| 1623 | millvan | 20ft | ITEL | FI061 | 30/59684 |
| 1624 | millvan | 20ft | Busby Inc. | PS-CT-8220-AM-CM | DMCU100633 |
| 1625 | snowmachine | 611lbs | Bombadier/Skidoo | Skandic, SWT | YK35181211R000289 |
| 1626 | freezer | | Big Dog Scientific | -20F | |
| 1627 | groomer, snow | 8ft | Maxey | 8 ft Idaho Special | MMC-IS01-283 |
| 1628 | Radome | 18ft | AFC | 18DVS15.4/sfc/c | |
| 1629 | sewing machine | | JUKI | DNU241NH | DNUBL03435 |
| 1630 | snowmachine | 611lbs | Bombadier/Skidoo | Skandic, SWT | YK35181211R000275 |
| 1631 | snowmachine | 611lbs | Bombadier/Skidoo | Skandic, SWT | YK35181211R000009 |
| 1632 | bladder, fuel | 10,000ga | Aero Tech Lab | 105745 | 21504517 |
| 1633 | liner, bladder, fuel | 10,000ga | Aero Tech Lab | 200400-745 | custom |
| 1634 | liner, bladder, fuel | 10,000ga | Aero Tech Lab | 200400-745 | custom |
| 1635 | liner, bladder, fuel | 10,000ga | Aero Tech Lab | 200400-745 | custom |
| 1636 | module, bath | | MTH, Inc | bath module | MOLU505169 |

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|------|--------------------------------------|--------------|------------------------|------------------|-----------------|
| 1637 | sled, cargo, LC-130 offload | | American Boiler | custom | 6/1/01 |
| 1638 | saw, table | 10" | Delta | contractors | 180302 |
| 1639 | saw, table | 10" | Delta | contractors | 88C12961 |
| 1640 | saw, band | 14" | Reliant | DD90 | 1053497 |
| 1641 | compressor, air | | Speedaire | 52628C | 5723649081 |
| 1642 | compressor, air | | Makita | MAC2200 | 9962085493 |
| 1643 | welder, arc | | Lincoln Electric | AC-150/4.5 AS | A163257 |
| 1644 | scale | | General Electroynamics | MD-40 | 31294 |
| 1645 | scale | | General Electroynamics | MD-40 | 31295 |
| 1646 | scale | | General Electroynamics | MD-40 | 31293 |
| 1647 | scale | | General Electroynamics | MD-40 | 31292 |
| 1648 | jack, pallet | | ECOA | EZ Stacker | 1260468 |
| 1649 | computer, laptop | | IBM | ThinkPad | 23-VLN52 |
| 1650 | boat, outboard motor | 30hp, 15" | Yamaha | 30hp | 6JB-2179X-20 |
| 1651 | phone, iridium | | Motorola | 9500 | 300001000070560 |
| 1652 | phone, iridium | | Motorola | 9500 | 300001000178840 |
| 1653 | phone, iridium | | Motorola | 9500 | 300001000268960 |
| 1654 | phone, iridium | | Motorola | 9500 | 300001000271350 |
| 1655 | phone, iridium | | Motorola | 9500 | 300001000566510 |
| 1656 | phone, iridium | | Motorola | 9500 | 300001000674690 |
| 1657 | phone, iridium | | Motorola | 9500 | 300001000677840 |
| 1658 | phone, iridium | | Motorola | 9500 | 300001000764460 |
| 1659 | phone, iridium | | Motorola | 9500 | 300001000864940 |
| 1660 | phone, iridium | | Motorola | 9500 | 300001000867690 |
| 1661 | computer, laptop | | IBM | ThinkPad | AK-V3BAB |
| 1662 | computer, laptop | | IBM | ThinkPad | AK-V3BA3 |
| 1663 | server | | Dell | Power Edge 500sc | C8Q8C11 |
| 1664 | phone, iridium | | Motorola | 9500 | 300001000277670 |
| 1665 | phone, iridium | | Motorola | 9500 | 300001000176080 |
| 1666 | phone, iridium | | Motorola | 9500 | 300001000170280 |
| 1667 | phone, iridium | | Motorola | 9500 | 300001000380510 |
| 1668 | phone, iridium | | Motorola | 9500 | 300001000118470 |
| 1669 | phone, iridium | | Motorola | 9500 | 300001000513140 |
| 1670 | phone, iridium | | Motorola | 9500 | 300001000511380 |
| 1671 | phone, iridium | | Motorola | 9500 | 300001000510090 |
| 1672 | phone, iridium | | Motorola | 9500 | 300001000515450 |
| 1673 | phone, iridium | | Motorola | 9500 | 300001000569430 |
| 1674 | docking station, iridium | | Motorola | 9570 | n/a |
| 1675 | docking station, iridium | | Motorola | 9570 | n/a |
| 1676 | docking station, iridium | | Motorola | 9570 | 177851 |
| 1677 | docking station, iridium | | Motorola | 9570 | 483349 |
| 1678 | docking station, iridium | | Motorola | 9570 | 483331 |
| 1679 | docking station, iridium | | Motorola | 9570 | 483731 |
| 1680 | radio, hand held, VHF, ground/air | | ICOM | IC-A3 | 019324 |
| 1682 | phone, iridium | | Motorola | 9505 | 300001001053390 |
| 1683 | phone, iridium | | Motorola | 9505 | 300001001057390 |
| 1684 | phone, iridium | | Motorola | 9505 | 300001001051490 |
| 1685 | phone, iridium | | Motorola | 9505 | 300001001054480 |
| 1686 | phone, iridium | | Motorola | 9505 | 300001001056380 |
| 1687 | phone, iridium | | Motorola | 9505 | 300001001058390 |
| 1688 | phone, iridium | | Motorola | 9505 | 300001001055890 |

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|------|---------------------------|-------------------|------------------------------|---------------------|--------------------|
| 1689 | phone, iridium | | Motorola | 9505 | 300001001052430 |
| 1690 | solar panel for iridium | | Motorola | SPN4567A | 000760 |
| 1691 | boat, inflatable | 17ft | Avon | W535 | 336636K001 |
| 1692 | shelving | | Penco | OA-36929 | n/a |
| 1693 | module, berthing | | ATCO | 3 unit sleeper | 03601 6320 |
| 1694 | truck | | Chevrolet | Surburban | 1G8GK26M5GF194220 |
| 1696 | plane hanger | 40 x 40 x 14ft | Cover-It | R10W/10 | n/a |
| 1697 | snowmachine | 573lbs | Bombadier/Skidoo | Skandic, WT | YK35181471R000508 |
| 1698 | snowmachine | | Bombadier/Skidoo | Skandic, LT | YK3S210242R000097 |
| 1699 | computer, laptop | | IBM | ThinkPad | 78-CDMPW |
| 1700 | snowmachine | | Bombadier/Skidoo | Skandic, LT | YK3S210292R000094 |
| 1701 | truck | | Chevrolet | CV30943, crew | 1GCHV33J4JJ139392 |
| 1702 | truck | | Chevrolet | CV30943, crew | 1GCHV33J9JJ139887 |
| 1703 | computer, laptop | | IBM | ThinkPad | 78-CDMLH |
| 1704 | computer, laptop | | IBM | ThinkPad | 78-CDMHY 03/02 |
| 1705 | generator 3kw | 3.0kw | Honda | EB3000c | GCAE-1501665 |
| 1706 | generator 1kw | 1.0kw | Honda | EU1000i | EZGA-1070905 |
| 1708 | millvan | 20ft | Graff | n/a | PWSU7670255 |
| 1709 | millvan | 20ft | Graff | n/a | PWSU2020534 |
| 1710 | groomer, snow | | Yellowstone Track Systems | n/a | 362002 |
| 1711 | GPS | | Garmin | GPS 12 | 36822297 |
| 1712 | computer, laptop | | IBM | ThinkPad | 78-CDMKB 03/02 |
| 1713 | radio, mobile/base A/C | | ICOM | IC-A200 | 24733 |
| 1714 | snowmachine | | Bombadier/Skidoo | Skandic | 3687 00338 |
| 1715 | snowmachine | | Bombadier/Skidoo | Skandic | 3687 01097 |
| 1716 | generator 5kw | 5.0kw | Honda | EG5000 | GC05-2147984 |
| 1717 | generator 3kw | 3.0kw | Powergaurd | OHV30 | G912782 |
| 1718 | generator 3kw | 3.0kw | Powergaurd | OHV30 | J913706 |
| 1719 | generator 3kw | 3.0kw | Honda | EB3000c | GCAE-1501055 |
| 1720 | generator 1kw | 1.0kw | Honda | EU1000i | EZGA-1070911 |
| 1721 | truck | | Ford | F350, Crew cab, 4x4 | IFTSW31FIIED90512 |
| 1722 | truck | | Ford | F350, Crew cab, 4x4 | IFTSW31F31ED90527 |
| 1723 | generator 2kw | 2.0kw | Honda | EU2000i | EAAJ-1029139 |
| 1724 | generator 2kw | 2.0kw | Honda | EU2000i | EAAJ-1029138 |
| 1725 | generator 3kw | 3.0kw | Honda | EM3000c | EZGP-1100668 |
| 1726 | generator 5kw | 5.0kw | Honda | EM5000SXX1 | GC05-3096376 |
| 1727 | snowmachine | | Bombadier/Skidoo | Tundra R | 2BPS327862V000205 |
| 1728 | snowmachine | | Bombadier/Skidoo | Tundra R | 2BPS327822V0001352 |
| 1729 | snowmachine | 611lbs | Bombadier/Skidoo | Skandic, SWT | YK3S209862R000152 |
| 1730 | trailer, ATV/Snow machine | 2000lbs | Goertzen Trailer, LTD | 2PS135 | 2WZTS131720006153 |
| 1731 | generator 7.5kw | 7.5kw | Powergaurd | XL7500E | A890723 |
| 1732 | meter, amp | | Fluke | 36 | 75202752 |
| 1733 | meter, amp | | Fluke | 79 III | 77990446 |
| 1734 | power supply, radio | | Astron | RS-20A | 9405705 |

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|------|--|---------------------|-------------------------|-----------------|--------------------|
| 1735 | radio, mobile | | Motorola | MaxTrac 300 | 428ARA2745 |
| 1736 | millvan | 20ft | Royal Arctic | n/a | RALU2017873 |
| 1738 | generator module, 1ea. 50kw, 1ea. 80kw | | Pacific Detroit Diesel | 50ROZJ & 80ROZJ | 0622348, 0624235 |
| 1739 | meter, amp | | Fluke | 36 | 78200804 |
| 1740 | meter, amp | | Fluke | 23 series II | 66090458 |
| 1741 | GPS | | Garmin | GPS 12 | 36844278 |
| 1742 | GPS | | Garmin | GPS III | 92195077 |
| 1743 | boat, alaskan | 20ft | Genmar Boats | Lund | ZLUV0497J697 |
| 1744 | boat, outboard motor | 50hp | Honda | BAZS | 3222236 |
| 1745 | All Terrain Vehicle | 2 x 4 | Honda | TRX,350TM1 | 478TE24231A100961 |
| 1746 | All Terrain Vehicle | 2 x 4 | Honda | TRX,350TM1 | 478TE24271A100686 |
| 1747 | trailer, ATV | | Goertzen | tag-a-long | |
| 1748 | oven, drying | | VWR Scientific Products | 1380FM | 0600598 |
| 1749 | oven, drying | | VWR Scientific Products | 1380FM | 9071070 |
| 1750 | freezer, iso temp | | Revco | 1825UA34 | T01L532536-TL |
| 1751 | module, lab | 18f-4x7f- 9x8f-6 | BMIL International | 020075 | |
| 1752 | cat walk | | American Boiler | n/a | 00001 |
| 1753 | generator | 125KW | Caterpillar | XQ125 | DED00197 |
| 1754 | Res. Module | | | | |
| 1761 | generator 2kw | 2.0kw | Honda | EU2000i | EAAJ-1045044 |
| 1763 | generator 1kw | 1.0kw | Honda | EU1000i | EZGA--1071267 |
| 1764 | generator 2kw | 2.0kw | Honda | EU2000i | EAAJ-1044804 |
| 1765 | generator 1kw | 1.0kw | Honda | EU1000i | EZGA-1070505 |
| 1766 | generator 3kw | 3.0kw | Honda | EB3000c | EZGP-1102865 |
| 1767 | generator 5kw | 5.0kw | Honda | EB5000 | GC05-3453136 |
| 1768 | GPS | | Garmin | GPS 12 | 36844279 |
| 1769 | heater, herman nelson | | Aero-Tech | BT400-10 | 10 5035 |
| 1770 | generator module, 2 ea. 96kw, w/ snowmelter | | Precision Power | YD35059 | U744869G, U744865G |
| 1771 | solar panel | 25w | Powerline | Expedition | n/a |
| 1772 | solar panel | 25w | Powerline | Expedition | n/a |
| 1773 | analyzer, antenna SWR | | MFJ | MFJ-259B | n/a |
| 1774 | radio, headset, VHF AC | | David Clark | H10-13.4 | unknown |
| 1781 | phone, iridium | | Motorola | 9500 | 300001000867460 |
| 1782 | computer, desktop | | Dell | Dimension 4400 | |
| 1783 | computer, rack mount | | Cyber Research | N1T6P | OAK9IFJ8JT |
| 1784 | computer, rack mount | | Cyber Research | N1T6P | 3QR61Y7Y72 |
| 1785 | computer, keyboard | | Cyber Research | GFA1518 | A2452225A |
| 1786 | satellite dish, Starband | 6ft | Channel Master | 360 | |
| 1787 | satellite dish, Starband | 6ft | Channel Master | 360 | |
| 1788 | modium, iridium | | Motorola | 9505 | n/a |
| 1789 | modium, iridium | | Motorola | 9505 | n/a |
| 1790 | net-radiometer | | Kipp & Zonen | CNR-1 | 20502 |
| 1791 | transceiver, wireless data | | Free Wave Technologies | FGR-115RC | 911-7363 |
| 1792 | transceiver, wireless data | | Free Wave Technologies | FGR-115RC | 911-7363 |
| 1793 | instrument, ice dector | | Good Rich Corp | 0871LH1 | 0871LH1 |
| 1794 | printer, wire marker | | Brady | I.D, Pro | 547974 |
| 1795 | computer, laptop | | IBM | ThinkPad | KPPTXRZ |
| 1796 | computer, laptop | | IBM | ThinkPad | 78RX486 |
| 1797 | computer, laptop | | Dell | OptiPlex GX60 | JWWXL21 |
| 1798 | phone, iridium | | Motorola | 9505 | 300001001053470 |
| 1799 | phone, iridium | | Motorola | 9505 | 300001001058380 |

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|------|-----------------------------------|------|-----------------------|----------------|-----------------|
| 1800 | radio, base station, VHF-FM | | Kenwood | TK-760G | 41101185 |
| 1801 | power supply, 15amp | | Innovative Circuits | ICT12012-15A | 15A018005026 |
| 1871 | phone, iridium | | Motorola | 9500 | 300001000677550 |
| 1872 | phone, iridium | | Motorola | 9500 | 300001000741390 |
| 1873 | solar panel for iridium | | Motorola | SPN4567B | 001629 |
| 1874 | radio, base station | | ICOM | IC-M700PRO | 06993 |
| 1875 | antenna tuner, automatic | | ICOM | AT-130 | 26033 |
| 1876 | radio, hand held, VHF, ground/air | | ICOM | IC-A4 | 17709 |
| 1877 | radio, hand held, VHF, ground/air | | ICOM | IC-A110 | 004746 |
| 1878 | radio, hand held, VHF, ground/air | | ICOM | IC-A110 | 004747 |
| 1879 | radio, hand held, VHF, ground/air | | ICOM | IC-A4 | 17710 |
| 1880 | radio, hand held, VHF, ground/air | | ICOM | IC-A3 | 19325 |
| 1911 | radio, hand held, VHF | | Kenwood | TK-260G-1 | 41101192 |
| 1912 | radio, hand held, VHF | | Kenwood | TK-260G-1 | 41101195 |
| 1913 | radio, hand held, VHF | | Kenwood | TK-260G-1 | 41101191 |
| 1914 | radio, hand held, VHF | | Kenwood | TK-260G-1 | 41101198 |
| 1915 | radio, hand held, VHF | | Kenwood | TK-260G-1 | 41101194 |
| 1916 | radio, hand held, VHF | | Kenwood | TK-260G-1 | 41101193 |
| 1917 | radio, hand held, VHF | | Kenwood | TK-260G-1 | 41101200 |
| 1918 | radio, hand held, VHF | | Kenwood | TK-260G-1 | 41101199 |
| 1919 | power supply, 15amp | | Innovative Circuits | ICT12012-15AMP | 15A018005028 |
| 1920 | power supply, 15amp | | Innovative Circuits | ICT12012-15AMP | 15A018005025 |
| 1921 | power supply, 15amp | | Innovative Circuits | ICT12012-15AMP | 15A018005029 |
| 1922 | radio, mobile, VHF-FM | | Kenwood | TK-760HG | 41101481 |
| 1923 | radio, mobile, VHF-FM | | Kenwood | TK-760HG | 41101485 |
| 1924 | radio, mobile, VHF-FM | | Kenwood | TK-760HG | 41101116 |
| 1925 | radio, mobile, VHF-FM | | Kenwood | TK-760HG | 41101117 |
| 1926 | radio, mobile, VHF-FM | | Kenwood | TK-760HG | 41101118 |
| 1927 | radio, mobile, VHF-FM | | Kenwood | TK-760HG | 41101119 |
| 1928 | radio, mobile, VHF-FM | | Kenwood | TK-760HG | 41101120 |
| 1931 | snowmachine | | Rybink | Buran | |
| 1932 | boat, diesel | | Yamaha | Volvo-Penta | 2204130498 |
| 1933 | life, crane | | Japan | NANCELPC35AF | 53591211 |
| 1934 | phone, mini-m | | Thrane & Thrane | TT-3060A | 00310043 |
| 1935 | track loader | | Kharkov Tractor Plant | HTZ-10 | 10HK9706012 |
| 1936 | generator, diesel-electric | | Ynmar | L100AE-DEO | C187-99 |
| 1937 | generator, diesel-electric | | Ynmar | 4TNE88-GIA | 20784 |
| 1938 | GPS | | Garmin | eTrex Legend | 85153169 |
| 1939 | GPS | | Garmin | eTrex Legend | 85153168 |
| 1940 | millvan | 20ft | | | NMC629 |
| 1941 | solar panel for iridium | | Motorola | SPN4567A | 000700 |
| 1942 | solar panel for iridium | | Motorola | SPN4567A | 000830 |
| 1943 | solar panel for iridium | | Motorola | SPN4567A | 000962 |
| 1944 | wireless, outdoor router | | Lucent | ROR-1000 | 02UT21250087 |
| 1945 | wireless, outdoor router | | Lucent | ROR-1000 | 03UT08230147 |
| 1946 | wireless, outdoor router | | Lucent | ROR-1000 | unknown |
| 1947 | wireless, outdoor router | | Lucent | ROR-1000 | 00UT44252381 |
| 1948 | radio, mobile, VHF FM | | Kenwood | TK 760-HG | 50100942 |
| 1949 | radio, mobile, VHF FM | | Kenwood | TK 760-HG | 50101080 |
| 1950 | radio, mobile, VHF FM | | Kenwood | TK 760-HG | 50101077 |
| 1951 | Power Supply, 15 Amp | | ICT Ltd. | ITC1201215AX | unknown |
| 1952 | power supply, 30 amp | | ICT Ltd. | ict1201230A | 30A019002643 |
| 1953 | power supply, 30 amp | | ICT Ltd. | ict1201230A | 30A019002642 |
| 1954 | radio, handheld, VHF FM | | Kenwood | TK-280K | 20800352 |

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|------|----------------------------|--|-------------|--------------------------|---------------|
| 1955 | radio, handheld, VHF FM | | Kenwood | TK-280K | 20800353 |
| 1956 | radio, handheld, VHF FM | | Kenwood | TK-280K | 20800351 |
| 1957 | radio, headset, VHF AC | | David Clark | H10-13.4 | 5965014461530 |
| 1958 | radio, handheld, VHF AC | | Icom | ICA3 | 20917 |
| 1959 | radio, handheld, VHF AC | | Icom | ICA3 | 20918 |
| 1960 | radio, handheld, VHF AC | | Icom | ICA3 | 20919 |
| 1961 | pager, iridium | | Motorola | 9501 | n/a |
| 2461 | Polar Station Building | | | Constructed | |
| 2462 | generator, diesel-electric | | | Vepr | |
| 2463 | phone, satellite | | | ATT Qualcomm GPS 1600 | |
| 2464 | electric set, wind | | | Incine 300 neo | |
| 2465 | electric set, wind | | | Incine 300 neo | |
| 2466 | electric set, wind | | | Incine 300 neo | |
| 2467 | tractor | | | DT-75 DC2 | |
| 2468 | trailer | | | 2PTS-4,5 | |
| 2469 | snowmobile | | | Buran C640A | |
| 2470 | meter, electric salinity | | | GM65 | |
| 2471 | meter, sea level | | | GMU-2 | |
| 2472 | meter, cloud height | | | IVO1m | |
| 2473 | meter, current | | | Vector- 2 | |
| 2474 | windicator | | | M-63MI | |
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| Totals | | | | | |
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| Location | Quantity | Purchase Price | Condition | Model Year | PO # | Last Date Inventoried |
|--------------------|----------|----------------|-----------|------------|--------------|-----------------------|
| Hinzman/Nolan | 1 | \$ 2,500.00 | Good | 1999 | transferred | 09/29/2003 |
| 532 | 1 | \$ 2,500.00 | Fair | 1999 | transferred | 06/05/2003 |
| SRI | 1 | \$ 2,500.00 | Good | 1997 | transferred | 06/14/2003 |
| SRI | 1 | \$ 2,500.00 | Good | 1997 | transferred | 09/29/2003 |
| Disposed | 0 | \$ - | Disposed | | 380122-M-18 | |
| Disposed | 0 | \$ - | Disposed | | 380122-M-18 | |
| Disposed | 0 | \$ - | Disposed | | 380122-M-18 | |
| Disposed | 0 | \$ - | Disposed | | 380122-M-18 | |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| 532 | 1 | \$ 3,406.00 | Good | 1999 | transferred | 04/15/2003 |
| KISS | 1 | \$ 3,406.00 | Fair | | n/a | 09/03/2003 |
| PFS | 1 | \$ 2,200.00 | Good | 2000 | 380122-M-62 | 04/15/2003 |
| PFS | 1 | \$ 2,200.00 | Good | 2000 | 380122-M-62 | 04/15/2003 |
| PFS | 1 | \$ 3,500.00 | Good | 2000 | 380122-M-62 | 04/15/2003 |
| PFS | 1 | \$ 2,700.00 | Good | 2000 | 380122-M-62 | 04/15/2003 |
| SRI | 1 | \$ 800.00 | Good | 1997 | transferred | 09/29/2003 |
| SRI | 1 | \$ 1,682.00 | Good | 2000 | CA163 | 09/29/2003 |
| Fairbanks | 1 | \$ 750.00 | Fair | 2000 | transferred | |
| Nome DMCU100633 | 1 | \$ 3,000.00 | Good | 1998 | transferred | 08/01/2003 |
| Nome DMCU100633 | 1 | \$ 3,610.00 | Good | 1998 | transferred | 08/01/2003 |
| Harper/Pfeffer | 1 | \$ 300.00 | Good | 2000 | CA006 | 04/29/2003 |
| Harper/Pfeffer | 1 | \$ 300.00 | Good | 2000 | CA006 | 04/29/2003 |
| SRI | 1 | \$ 300.00 | Good | 2000 | CA006 | 09/29/2003 |
| SRI | 1 | \$ 300.00 | Good | 2000 | CA006 | 09/29/2003 |
| SRI | 1 | \$ 2,895.00 | Good | 2000 | 380122-M-173 | 09/29/2003 |
| Hinzman | 1 | \$ 2,895.00 | Good | 2000 | 380122-M-173 | 09/29/2003 |
| Hinzman | 1 | \$ 1,995.00 | Good | 2000 | 380122-M-173 | 09/29/2003 |
| Sturm | 1 | \$ 1,995.00 | Good | 2000 | 380122-M-173 | 09/29/2003 |
| SRI | 1 | \$ 1,995.00 | Good | 2000 | 380122-M-173 | 09/29/2003 |

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|--------------------|---|-------------|----------|------|-------------|------------|
| Disposed | 0 | \$ - | Disposed | 1988 | transferred | |
| PFS | 1 | \$ 2,700.00 | Good | 2000 | 380122-M-01 | 04/15/2003 |
| PFS | 1 | \$ 3,500.00 | Good | 2000 | 380122-M-01 | 04/15/2003 |
| PFS Warehouse | 1 | \$ 700.00 | Fair | | transferred | 04/01/2003 |
| unknown | 1 | \$ 1,200.00 | Fair | | transferred | |
| Nome DMCU100674 | 1 | \$ 1,200.00 | Fair | | transferred | 08/01/2003 |
| Alert | 1 | \$ 705.00 | Good | 2000 | 380122-M-19 | |
| Alert | 1 | \$ 705.00 | Good | 2000 | 380122-M-19 | |
| PFS | 1 | \$ 2,700.00 | Good | 2000 | 380122-M-62 | 04/15/2003 |
| Fairbanks | 1 | \$ 2,200.00 | Good | 2000 | 380122-M-01 | 04/15/2003 |
| Summit | 1 | \$ 769.00 | Good | 2000 | 380122-M-07 | 08/01/2003 |
| PFS | 1 | \$ 769.00 | Good | 2000 | 380122-M-07 | 04/15/2003 |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| 532 | 1 | \$ 3,615.00 | Good | 1999 | transferred | 04/15/2003 |
| SRI | 1 | \$ 3,615.00 | Good | 1999 | transferred | 09/29/2003 |
| 532 | 1 | \$ 2,430.00 | Fair | 1997 | transferred | 04/15/2003 |
| KISS | 1 | \$ 2,500.00 | Fair | 1997 | transferred | 08/01/2003 |
| SRI | 1 | \$ 2,500.00 | Fair | 1997 | transferred | 09/29/2003 |
| SRI | 1 | \$ 2,500.00 | Fair | 1997 | transferred | 06/14/2003 |
| KISS | 1 | \$ 2,849.00 | Fair | 1995 | transferred | 04/15/2003 |
| SRI | 1 | \$ 2,849.00 | Fair | 1995 | transferred | 09/29/2003 |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| SRI | 1 | \$ 3,000.00 | Poor | 1997 | transferred | 09/29/2003 |
| 532 | 1 | \$ 2,430.00 | Good | 1998 | transferred | 08/01/2003 |
| SRI | 1 | \$ 2,430.00 | Good | 1998 | transferred | 09/01/2003 |
| SRI | 1 | \$ 2,430.00 | Good | 1998 | transferred | 04/15/2003 |
| SRI | 1 | \$ 2,500.00 | Fair | 1997 | transferred | 06/14/2003 |
| SRI | 1 | \$ 2,500.00 | Fair | 1997 | transferred | 09/01/2003 |
| 532 | 1 | \$ 2,400.00 | Good | 1997 | transferred | 04/15/2003 |
| SRI | 1 | \$ 2,400.00 | Fair | 1997 | transferred | 09/29/2003 |
| KISS | 1 | \$ 3,615.00 | Good | 1999 | transferred | 04/15/2003 |
| 534 | 1 | \$ 3,615.00 | Good | 1999 | transferred | 08/01/2003 |
| 532 | 1 | \$ 144.00 | Good | 1998 | transferred | 08/01/2003 |
| 532 | 1 | \$ 144.00 | Good | 1998 | transferred | 04/15/2003 |
| 532 | 1 | \$ 144.00 | Good | 1998 | transferred | 09/29/2003 |
| KISS | 1 | \$ 144.00 | Good | 1998 | transferred | 08/01/2003 |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| SRI | 1 | \$ 800.00 | Poor | 1997 | transferred | 09/29/2003 |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Sturm | 1 | \$ 800.00 | Good | 1997 | transferred | 05/01/2003 |
| SRI | 1 | \$ 800.00 | Good | 1997 | transferred | 09/29/2003 |
| SRI | 1 | \$ 800.00 | Good | 1997 | transferred | 09/29/2003 |
| SRI | 1 | \$ 400.00 | Fair | 1997 | transferred | 04/15/2003 |

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|-------------------------|---|-------------|----------|------|-------------|------------|
| Disposed | 0 | \$ - | Disposed | | transferred | |
| SRI | 1 | \$ 1,069.00 | Fair | 1997 | transferred | 09/29/2003 |
| SRI | 1 | \$ 1,069.00 | Fair | 1997 | transferred | 09/29/2003 |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Disposed | 0 | \$ - | Disposed | 1996 | transferred | |
| Disposed | 1 | \$ - | Disposed | 1988 | transferred | |
| KISS | 1 | \$ 1,400.00 | Fair | 1996 | transferred | 08/01/2003 |
| Disposed | 0 | \$ - | Disposed | 1996 | transferred | |
| KISS | 1 | \$ 1,400.00 | Fair | 1996 | transferred | 08/01/2003 |
| KISS | 1 | \$ 1,400.00 | Fair | 1996 | transferred | 08/01/2003 |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| SRI | 1 | \$ 630.00 | Fair | 1997 | transferred | 09/29/2003 |
| SRI | 1 | \$ 630.00 | Fair | 1997 | transferred | 09/29/2003 |
| 532 | 1 | \$ 100.00 | Fair | 1997 | transferred | 08/01/2003 |
| SRI | 1 | \$ 100.00 | Fair | 1997 | transferred | 03/27/2003 |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| SRI | 1 | \$ 594.00 | Fair | 1995 | transferred | 09/29/2003 |
| SRI | 1 | \$ 594.00 | Fair | 1995 | transferred | 09/29/2003 |
| Disposed | 0 | \$ - | Disposed | 1995 | transferred | |
| SRI | 1 | \$ 656.00 | Fair | 1994 | transferred | 09/29/2003 |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| SRI | 1 | \$ 800.00 | Good | 1998 | transferred | 09/29/2003 |
| Sturm | 1 | \$ 800.00 | Good | 1998 | transferred | 05/01/2003 |
| SRI | 1 | \$ 800.00 | Good | 1998 | transferred | 09/29/2003 |
| SRI | 1 | \$ 800.00 | Good | 1998 | transferred | 09/29/2003 |
| PFS Warehouse | 1 | \$ 800.00 | Fair | 1998 | transferred | 08/01/2003 |
| Fairbanks Garage | 1 | \$ 300.00 | Good | 2000 | transferred | 04/15/2003 |
| Fairbanks Garage | 1 | \$ 1,000.00 | Fair | 1992 | transferred | 04/15/2003 |
| Trailer 2 | 1 | \$ 744.00 | Fair | 1995 | transferred | 06/01/2003 |
| Fairbanks BULI100567 | 1 | \$ 329.00 | Fair | 1999 | transferred | 04/15/2003 |
| Fairbanks BULI100567 | 1 | \$ 2,399.00 | Fair | 1998 | transferred | 04/15/2003 |

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|-------------------------|---|--------------|----------|------|--------------|------------|
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Trailer 2 | 1 | \$ 744.00 | Fair | 1995 | transferred | 06/01/2003 |
| Fairbanks BULI100567 | 1 | \$ 800.00 | Good | | transferred | 04/15/2003 |
| Nome DMCU100633 | 1 | \$ 800.00 | Fair | | transferred | 08/01/2003 |
| Fairbanks BULI100567 | 1 | \$ 4,600.00 | Good | 1998 | transferred | 04/15/2003 |
| Fairbanks Garage | 1 | \$ 2,275.00 | Fair | | transferred | 04/15/2003 |
| Fairbanks Garage | 1 | \$ 1,200.00 | Fair | 2002 | transferred | 04/15/2003 |
| Fairbanks Garage | 1 | \$ 1,200.00 | Fair | 2002 | transferred | 04/15/2003 |
| Fairbanks BULI100567 | 1 | \$ 1,000.00 | Unknown | 1994 | transferred | 04/15/2003 |
| Fairbanks BULI100567 | 1 | \$ 1,000.00 | Fair | 1994 | transferred | 04/15/2003 |
| Fairbanks BULI100567 | 1 | \$ 1,200.00 | Unknown | 1988 | transferred | 04/15/2003 |
| Disposed | 1 | \$ - | Disposed | | transferred | |
| Disposed | 0 | \$ - | Disposed | 1988 | transferred | |
| Trailer 2 | 1 | \$ 3,300.00 | Unknown | 1990 | transferred | 06/01/2003 |
| Barrow | 1 | \$ 800.00 | Fair | | transferred | |
| Fairbanks Garage | 1 | \$ 500.00 | Fair | | transferred | 04/15/2003 |
| Trailer 2 | 1 | \$ 1,000.00 | Unknown | | transferred | 06/01/2003 |
| Trailer 2 | 1 | \$ 500.00 | Good | | transferred | 06/01/2003 |
| Summit | 1 | \$ 340.00 | Good | 2000 | 380122-M-259 | 06/10/2003 |
| SRI | 1 | \$ 340.00 | Good | 2000 | 380122-M-259 | 04/15/2003 |
| Summit | 1 | \$ 340.00 | Good | 2000 | 380122-M-259 | 06/10/2003 |
| SRI | 1 | \$ 340.00 | Good | 2000 | 380122-M-259 | 06/10/2003 |
| SRI | 1 | \$ 340.00 | Good | 2000 | 380122-M-259 | 06/10/2003 |
| SRI | 1 | \$ 340.00 | Good | 2000 | 380122-M-259 | 04/15/2003 |
| SRI | 1 | \$ 340.00 | Good | 2000 | 380122-M-259 | 06/10/2003 |
| SRI | 1 | \$ 340.00 | Good | 2000 | 380122-M-259 | 06/10/2003 |
| SRI | 1 | \$ 340.00 | Good | 2000 | 380122-M-259 | 05/10/2003 |
| SRI | 1 | \$ 340.00 | Good | 2000 | 380122-M-259 | 05/12/2003 |
| SRI | 1 | \$ 340.00 | Good | 2000 | 380122-M-259 | 05/12/2003 |
| 534 | 1 | \$ 340.00 | Good | 2000 | 380122-M-259 | 08/01/2003 |
| 534 | 1 | \$ 340.00 | Good | 2000 | 380122-M-259 | 08/01/2003 |
| KISS | 1 | \$ 2,500.00 | Fair | 1999 | transferred | 09/01/2003 |
| KISS | 1 | \$ 400.00 | Poor | 1994 | transferred | 08/01/2003 |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| KISS | 1 | \$ 9,764.00 | Fair | | transferred | 04/15/2003 |
| KISS | 1 | \$ 100.00 | Fair | | transferred | 04/15/2003 |
| 532 | 1 | \$ 25,000.00 | Good | 1975 | transferred | 08/01/2003 |
| KISS | 1 | \$ 2,200.00 | Good | | transferred | 08/01/2003 |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| SRI | 1 | \$ 2,500.00 | Fair | 1995 | transferred | 09/29/2003 |
| KISS | 1 | \$ 1,000.00 | Good | 1998 | transferred | 04/15/2003 |
| KISS | 1 | \$ 1,200.00 | Good | 1995 | transferred | 04/15/2003 |

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|---------------|---|---------------|----------|------|-------------|------------|
| KISS | 1 | \$ 2,000.00 | Good | 1995 | transferred | 04/15/2003 |
| 534 | 1 | \$ 2,532.00 | Poor | | transferred | 08/01/2002 |
| PFS Warehouse | 1 | \$ 5,792.00 | Poor | 1997 | transferred | 04/01/2003 |
| 534 | 1 | \$ 250.00 | Good | 1999 | transferred | 08/01/2003 |
| 534 | 1 | \$ 250.00 | Fair | 1999 | transferred | 08/01/2003 |
| 534 | 1 | \$ 7,200.00 | Good | 1993 | transferred | 08/01/2003 |
| KISS | 1 | \$ 18,000.00 | Fair | 1987 | transferred | 08/01/2003 |
| 532 | 1 | \$ 500.00 | Fair | | transferred | 08/01/2003 |
| 532 | 1 | \$ 20,455.00 | Fair | | transferred | 08/01/2003 |
| KISS | 1 | \$ 20,454.00 | Fair | 1992 | transferred | 08/01/2003 |
| 532 | 1 | \$ 600.00 | Good | 1999 | transferred | 08/01/2003 |
| 532 | 1 | \$ 600.00 | Good | 1999 | transferred | 04/15/2003 |
| SRI | 1 | \$ 222.00 | Fair | 1999 | transferred | 09/29/2003 |
| SRI | 1 | \$ 222.00 | Fair | 1999 | transferred | 09/29/2003 |
| SRI | 1 | \$ 222.00 | Poor | 1999 | transferred | 09/29/2003 |
| SRI | 1 | \$ 222.00 | Fair | 1999 | transferred | 09/29/2003 |
| 532 | 1 | \$ 100.00 | Good | 1998 | transferred | 04/15/2003 |
| 532 | 1 | \$ 100.00 | Good | 1998 | transferred | 04/15/2003 |
| 532 | 1 | \$ 2,500.00 | Good | 1995 | transferred | 04/15/2003 |
| 532 | 1 | \$ 4,595.00 | Fair | 1998 | transferred | 04/15/2003 |
| 532 | 1 | \$ 2,000.00 | Good | 1998 | transferred | 08/01/2003 |
| 534 | 1 | \$ 2,820.00 | Poor | | transferred | 08/01/2003 |
| Summit | 1 | \$ 1,200.00 | Fair | | transferred | 08/01/2003 |
| Summit | 1 | \$ 2,000.00 | Fair | | transferred | 08/01/2003 |
| Summit | 1 | \$ 195,210.00 | Good | 1999 | transferred | 08/01/2003 |
| PFS Warehouse | 1 | \$ 5,792.00 | Poor | 1997 | transferred | 04/01/2003 |
| Summit | 1 | \$ 7,200.00 | Good | 1993 | transferred | 08/01/2003 |
| Disposed | 0 | \$ - | Disposed | 1997 | transferred | |
| 534 | 1 | \$ 7,000.00 | Good | | transferred | 08/01/2003 |
| Summit | 1 | \$ 11,030.00 | Good | 1988 | transferred | 08/01/2003 |
| 534 | 1 | \$ 600.00 | Good | 1998 | transferred | 09/29/2003 |
| 534 | 1 | \$ 4,350.00 | Fair | 1997 | transferred | 08/01/2003 |
| 534 | 1 | \$ 2,000.00 | Good | 1998 | transferred | 08/01/2003 |
| Summit | 1 | \$ 2,850.00 | Fair | | transferred | 08/01/2003 |
| 534 | 1 | \$ 24,000.00 | Fair | | transferred | 08/01/2003 |
| Summit | 1 | \$ 1,200.00 | Fair | | transferred | 08/01/2003 |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Summit | 1 | \$ 107,295.00 | Fair | 1997 | transferred | 08/01/2003 |
| Summit | 1 | \$ 6,200.00 | Good | 1992 | transferred | 08/01/2003 |
| 534 | 1 | \$ 800.00 | Poor | | transferred | 08/01/2003 |
| Summit | 1 | \$ 6,942.00 | Poor | 1987 | transferred | 08/01/2003 |
| Summit | 1 | \$ 3,024.00 | Good | 1989 | transferred | 08/01/2003 |
| Summit | 1 | \$ 5,200.00 | Good | | transferred | 08/01/2003 |
| Summit | 1 | \$ 8,145.00 | Fair | | transferred | 08/01/2003 |
| Summit | 1 | \$ 5,741.00 | Fair | | transferred | 08/01/2003 |
| Summit | 1 | \$ 100,000.00 | Fair | 1992 | transferred | 08/01/2003 |
| Disposed | 0 | \$ - | Disposed | | transferred | |

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|----------------|---|--------------|----------|------|-------------|------------|
| Summit | 1 | \$ 7,695.00 | Fair | | transferred | 08/01/2003 |
| Summit | 1 | \$ 4,000.00 | Fair | | transferred | 08/01/2003 |
| Summit | 1 | \$ 2,000.00 | Good | | transferred | 08/01/2003 |
| Summit | 1 | \$ 7,000.00 | Good | 1987 | transferred | 08/01/2003 |
| Summit | 1 | \$ 3,500.00 | Fair | | transferred | 08/01/2003 |
| PFS Wharehouse | 1 | \$ 5,792.00 | Poor | 1997 | transferred | 04/01/2003 |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Summit | 1 | \$ 2,943.00 | Fair | 1993 | transferred | 08/01/2003 |
| Summit | 1 | \$ 2,300.00 | Good | | transferred | 08/01/2003 |
| Summit | 1 | \$ 2,450.00 | Good | | transferred | 08/01/2003 |
| Summit | 1 | \$ 2,300.00 | Good | | transferred | 08/01/2003 |
| Summit | 1 | \$ 2,450.00 | Good | | transferred | 08/01/2003 |
| Summit | 1 | \$ 2,300.00 | Good | | transferred | 08/01/2003 |
| Summit | 1 | \$ 2,300.00 | Good | | transferred | 08/01/2003 |
| Summit | 1 | \$ 2,300.00 | Good | | transferred | 08/01/2003 |
| 534 | 1 | \$ 3,080.00 | Fair | | transferred | 08/01/2003 |
| Summit | 1 | \$ 2,532.00 | Fair | | transferred | 08/01/2003 |
| Summit | 1 | \$ 2,532.00 | Fair | | transferred | 08/01/2003 |
| 532 | 1 | \$ 4,595.00 | Good | 1998 | transferred | 08/01/2003 |
| KISS | 1 | \$ 2,500.00 | Good | 1995 | transferred | 08/01/2003 |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Summit | 1 | \$ 4,968.00 | Good | 2000 | 380122-M-38 | 08/01/2003 |
| Summit | 1 | \$ 4,968.00 | Good | 2000 | 380122-M-38 | 08/01/2003 |
| KISS | 1 | \$ 2,500.00 | Good | 1999 | transferred | 08/01/2003 |
| SRI | 1 | \$ 150.00 | Good | | transferred | 09/29/2003 |
| SRI | 1 | \$ 6,975.00 | Good | 1998 | transferred | 09/29/2003 |
| SRI | 1 | \$ 2,000.00 | Good | 1998 | transferred | 09/29/2003 |
| 534 | 1 | \$ 61,353.00 | Poor | 1978 | transferred | 08/01/2003 |
| 534 | 1 | \$ 11,030.00 | Good | 1998 | transferred | 08/01/2003 |
| 534 | 1 | \$ 1,445.00 | Good | 2000 | 380122-M-57 | 08/01/2003 |
| Summit | 1 | \$ 2,500.00 | Good | | transferred | 08/01/2003 |
| 534 | 1 | \$ 3,500.00 | Fair | 1997 | transferred | 08/01/2003 |
| 534 | 1 | \$ 1,445.00 | Good | 2000 | 380122-M-57 | 08/01/2003 |
| 532 | 1 | \$ 2,000.00 | Good | 1998 | transferred | 09/29/2003 |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| | | \$ - | | | | |
| 532 | 1 | \$ 100.00 | Good | 1998 | transferred | 09/29/2003 |
| 532 | 1 | \$ 9,999.00 | Good | 1998 | transferred | 08/01/2003 |
| Fairbanks | 1 | \$ 1,029.00 | Good | | transferred | |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| 532 | 1 | \$ 4,700.00 | Good | 2000 | 380122-M-43 | 08/01/2003 |
| 532 | 1 | \$ 1,000.00 | Good | 2000 | 380122-M-43 | 08/01/2003 |
| 534 | 1 | \$ 1,049.00 | Good | 2000 | 380122-M-42 | 08/01/2003 |
| Disposed | 0 | \$ - | Disposed | 2000 | 380122-M-42 | |
| KISS | 1 | \$ 1,457.00 | Good | 2000 | 380122-M-61 | 08/01/2003 |
| KISS | 1 | \$ 949.00 | Good | 2000 | CG177 | 08/01/2003 |
| 534 | 1 | \$ 3,024.00 | Good | | transferred | 08/01/2003 |
| 534 | 1 | \$ 2,000.00 | Good | | transferred | 08/01/2003 |
| 534 | 1 | \$ 12,686.00 | Fair | 1994 | transferred | 08/01/2003 |
| KISS | 1 | \$ 3,500.00 | Good | | transferred | 08/01/2003 |
| KISS | 1 | \$ 400.00 | Poor | | transferred | 08/01/2003 |
| PFS | 1 | \$ 119.98 | Good | 2000 | CG005 | 04/15/2003 |

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|-------------------------|---|---------------|----------|------|--------------|------------|
| KISS | 1 | \$ 119.98 | Good | 2000 | CG005 | 08/01/2003 |
| KISS | 1 | \$ 119.98 | Poor | 2000 | CG005 | 08/01/2003 |
| KISS | 1 | \$ 119.98 | Good | 2000 | CG005 | 08/01/2003 |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| KISS | 1 | \$ 28,575.00 | Poor | 1997 | transferred | 08/01/2003 |
| KISS | 1 | \$ 2,400.00 | Fair | 1998 | transferred | 08/01/2003 |
| Summit Garage | 1 | \$ 3,000.00 | Fair | 1988 | transferred | 08/01/2003 |
| 534 | 1 | \$ 2,300.00 | Good | | transferred | 08/01/2003 |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| 534 | 1 | \$ 7,000.00 | Fair | | transferred | 08/01/2003 |
| Oechel | 1 | \$ 2,740.00 | New | 2002 | 380898-M-638 | 04/15/2003 |
| 534 | 1 | \$ 599.99 | Fair | | transferred | 08/01/2003 |
| Summit | 1 | \$ 6,205.00 | Good | 2000 | 380122-M-161 | 08/01/2003 |
| Summit | 1 | \$ 6,205.00 | Good | 2000 | 380122-M-161 | 08/01/2003 |
| Summit | 1 | \$ 13,177.00 | Good | 2000 | 381122-M-184 | 06/01/2003 |
| Summit | 1 | \$ 13,177.00 | Good | 2000 | 381122-M-184 | 06/01/2003 |
| Summit | 1 | \$ 1,418.00 | Good | | transferred | 08/01/2003 |
| 534 | 1 | \$ 595.00 | Good | 2000 | 380122-M-49 | 08/01/2003 |
| Toolik | 1 | \$ 4,084.00 | Good | | transferred | 06/01/2003 |
| Q. Creek | 1 | \$ 2,400.00 | Good | 1992 | transferred | 08/01/2003 |
| Fairbanks BULI100567 | 1 | \$ 1,579.00 | Good | 2000 | 380122-M-138 | 04/15/2003 |
| Nome DMCU100633 | 1 | \$ 4,000.00 | Good | | transferred | 08/01/2003 |
| Summit | 1 | \$ 231,672.00 | Good | | transferred | 08/01/2003 |
| Summit | 1 | \$ 231,672.00 | Good | 1997 | 380579-M-05 | 08/01/2003 |
| 532 | 1 | \$ 1,508.00 | Good | 2000 | CG024 | 08/01/2003 |
| Summit | 1 | \$ 60,350.00 | Good | 2000 | 380122-M-151 | 08/01/2003 |
| 534 | 1 | \$ 511.50 | Good | 2000 | CG162 | 08/01/2003 |
| 534 | 1 | \$ 3,500.00 | Good | | transferred | 08/01/2003 |
| 532 | 1 | \$ 270.00 | Good | 2000 | 380122-M-140 | 08/01/2003 |
| 532 | 1 | \$ 399.95 | Good | 2000 | CS154 | 08/01/2003 |
| Summit | 1 | \$ 711.00 | Good | 2000 | 380122-M-45 | 08/01/2002 |
| 532 | 1 | \$ 1,160.00 | Good | 2000 | CG266 | 08/01/2003 |
| 532 | 1 | \$ 1,775.00 | Good | 2000 | CG201 | 08/01/2003 |
| 532 | 1 | \$ 580.00 | Good | 2000 | CG204 | 08/01/2003 |
| 532 | 1 | \$ 520.00 | Good | 2000 | CG204 | 08/01/2003 |
| 532 | 1 | \$ 4,175.00 | Good | 2000 | CA042 | 08/01/2003 |
| 532 | 1 | \$ 619.95 | Good | 2000 | GC050 | 08/01/2003 |
| 532 | 1 | \$ 247.60 | Good | 2000 | GC050 | 08/01/2003 |
| Summit | 1 | \$ 1,456.00 | Good | 2000 | GC051 | 08/01/2003 |
| 532 | 1 | \$ 595.00 | Good | 2000 | 380122-M-49 | 08/01/2003 |
| 534 | 1 | \$ 5,729.00 | Good | | transferred | 08/01/2003 |
| 534 | 1 | \$ 9,667.00 | Good | | transferred | 08/01/2003 |
| 534 | 1 | \$ 3,000.00 | Good | | transferred | 08/01/2003 |
| 534 | 1 | \$ 3,351.00 | Good | | transferred | 08/01/2003 |
| 534 | 1 | \$ 4,084.00 | Good | | transferred | 08/01/2003 |

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|-----------------------|---|--------------|----------|------|--------------|------------|
| 534 | 1 | \$ 4,084.00 | Good | | transferred | 08/01/2003 |
| PFS | 1 | \$ 1,750.00 | Good | | transferred | |
| KISS | 1 | \$ 3,295.00 | Good | | transferred | 08/01/2003 |
| 534 | 1 | \$ 5,875.00 | Fair | | transferred | 08/01/2003 |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Toolik | 1 | \$ 529.99 | Good | 2000 | CA120 | 06/01/2003 |
| Toolik | 1 | \$ 529.99 | Good | 2000 | CA120 | 06/01/2003 |
| Toolik | 1 | \$ 529.99 | Good | 2000 | CA120 | 06/01/2003 |
| Toolik | 1 | \$ 529.99 | Good | 2000 | CA120 | 06/01/2003 |
| Toolik | 1 | \$ 15,750.00 | Good | 2000 | 380122-M-73 | 06/01/2003 |
| Toolik | 1 | \$ 21,197.00 | Good | 2000 | 380122-M-148 | 06/01/2003 |
| Toolik | 1 | \$ 529.96 | Good | 2000 | CA113 | 06/01/2003 |
| Toolik | 1 | \$ 529.96 | Good | 2000 | CA113 | 06/01/2003 |
| Toolik | 1 | \$ 529.96 | Good | 2000 | CA113 | 06/01/2003 |
| Toolik | 1 | \$ 529.96 | Good | 2000 | CA113 | 06/01/2003 |
| Fairbanks Garage | 1 | \$ 2,300.00 | Fair | | transferred | 04/15/2003 |
| Toolik | 1 | \$ 6,689.00 | Good | | transferred | 06/01/2003 |
| Fairbanks Weatherport | 1 | \$ 6,689.00 | Good | | transferred | 04/15/2003 |
| Fairbanks Garage | 1 | \$ 3,351.00 | Good | | transferred | 04/15/2003 |
| Fairbanks Garage | 1 | \$ 3,351.00 | Good | | transferred | 04/15/2003 |
| Nome DMCU100674 | 1 | \$ 4,534.00 | Good | | transferred | 08/01/2003 |
| PFS | 1 | \$ 769.00 | Good | 2000 | 380122-M-07 | 04/15/2003 |
| Fairbanks | 1 | \$ 2,200.00 | Good | 2000 | 380122-M-01 | 04/15/2003 |
| 534 | 1 | \$ 400.00 | Good | 2000 | 380122-M-11B | 08/01/2003 |
| SRI | 1 | \$ 443.00 | Good | 2000 | CG137 | 09/29/2003 |
| SRI | 1 | \$ 443.00 | Good | 2000 | CG137 | 09/29/2003 |
| SRI | 1 | \$ 443.00 | Good | 2000 | CG137 | 09/29/2003 |
| SRI | 1 | \$ 3,297.00 | Poor | 1998 | transferred | 09/29/2003 |
| PFS Warehouse | 0 | \$ 3,000.00 | Poor | 2002 | transferred | 08/01/2003 |
| Toolik | 1 | \$ 5,020.00 | Good | | transferred | 06/01/2003 |
| Toolik | 1 | \$ 5,020.00 | Good | | transferred | 06/01/2003 |
| Toolik | 1 | \$ 5,020.00 | Good | | transferred | 06/01/2003 |
| Toolik | 1 | \$ 5,020.00 | Good | | transferred | 06/01/2003 |
| Toolik | 1 | \$ 5,020.00 | Good | | transferred | 06/01/2003 |
| PFS Warehouse | 1 | \$ 6,689.00 | Good | | transferred | 04/01/2003 |
| PFS Warehouse | 1 | \$ 9,667.00 | Good | | transferred | 04/01/2003 |
| PFS Warehouse | 1 | \$ 3,000.00 | Good | | transferred | 04/01/2003 |
| PFS Warehouse | 1 | \$ 3,351.00 | Good | | transferred | 04/01/2003 |
| Toolik | 1 | \$ 4,084.00 | Good | | transferred | 06/01/2003 |
| Toolik | 1 | \$ 4,084.00 | Good | | transferred | 06/01/2003 |
| Toolik | 1 | \$ 4,084.00 | Good | | transferred | 06/01/2003 |

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|-------------------------|---|---------------|------|------|---------------|------------|
| Toolik | 1 | \$ 4,084.00 | Good | | transferred | 06/01/2003 |
| Toolik | 1 | \$ 4,084.00 | Good | | transferred | 06/01/2003 |
| Toolik | 1 | \$ 4,084.00 | Good | | transferred | 06/01/2003 |
| Toolik | 1 | \$ 4,084.00 | Good | | transferred | 06/01/2003 |
| Fairbanks BULI100567 | 1 | \$ 1,579.00 | Good | 2000 | 380122-M-138 | 04/15/2003 |
| PFS | 1 | \$ 600.00 | Good | 2000 | purchase 2000 | 04/15/2003 |
| KISS | 1 | \$ 300.00 | Fair | 1999 | transferred | 08/01/2003 |
| KISS | 1 | \$ 300.00 | Fair | 1999 | transferred | 08/01/2003 |
| PFS Warehouse | 1 | \$ 500.00 | Fair | | transferred | 04/01/2003 |
| PFS Warehouse | 1 | \$ 950.00 | New | 2002 | | 04/01/2003 |
| 534 | 1 | \$ 250.00 | Good | 2000 | 380122-M-24 | 08/01/2003 |
| Alert | 1 | \$ 1,149.00 | Good | 2000 | 380122-M-20 | |
| Alert | 1 | \$ 1,149.00 | Good | 2000 | 380122-M-20 | |
| Toolik | 1 | \$ 200,000.00 | Good | | transferred | 06/01/2003 |
| Hinzman/Nolan | 1 | \$ 340.00 | Good | 2001 | 380579-M-388 | 09/29/2003 |
| Hinzman/Nolan | 2 | \$ 340.00 | Good | 2001 | 380579-M-388 | 09/29/2003 |
| Hinzman | 1 | \$ 340.00 | Good | 2001 | 380579-M-388 | 09/29/2003 |
| Hinzman/Nolan | 1 | \$ 340.00 | Good | 2001 | 380579-M-388 | 09/29/2003 |
| Hinzman/Nolan | 1 | \$ 340.00 | Good | 2001 | 380579-M-388 | 09/29/2003 |
| Hinzman/Nolan | 1 | \$ 340.00 | Good | 2001 | 380579-M-388 | 09/29/2003 |
| Hinzman | 1 | \$ 340.00 | Good | 2001 | 380579-M-388 | 09/29/2003 |
| Hinzman | 1 | \$ 340.00 | Good | 2001 | 380579-M-388 | 09/29/2003 |
| SRI | 1 | \$ 340.00 | Good | 2001 | 380579-M-388 | 07/10/2003 |
| SRI | 1 | \$ 340.00 | Good | 2001 | 380579-M-388 | 07/10/2003 |
| SRI | 1 | \$ 340.00 | Good | 2001 | 380579-M-388 | 07/10/2003 |
| SRI | 1 | \$ 340.00 | Good | 2001 | 380579-M-388 | 05/08/2003 |
| 534 | 1 | \$ 340.00 | Good | 2001 | 380579-M-388 | 08/01/2003 |
| 534 | 1 | \$ 340.00 | Good | 2001 | 380579-M-388 | 08/01/2003 |
| SRI | 1 | \$ 340.00 | Good | 2001 | 380579-M-388 | 04/16/2003 |
| SRI | 1 | \$ 340.00 | Good | 2001 | 380579-M-388 | 04/16/2003 |
| 532 | 1 | \$ 1,775.00 | Good | 1999 | transferred | 04/15/2003 |
| 534 | 1 | \$ 6,130.00 | Good | 1999 | transferred | 08/01/2003 |
| SRI | 1 | \$ 4,500.00 | Good | 1998 | transferred | 09/29/2003 |
| SRI | 1 | \$ 950.00 | Good | 2001 | 380579-M-411 | 06/10/2003 |
| SRI | 1 | \$ 2,700.00 | Good | 2001 | 380579-M-301 | 09/01/2003 |
| Summit | 1 | \$ 2,700.00 | Good | 2000 | n/a | 04/15/2003 |
| SRI | 1 | \$ 950.00 | Good | 2001 | 380579-M-411 | 05/01/2003 |
| Echelmeyer, K. | 1 | \$ 950.00 | Good | 2001 | 380579-M-411 | 08/01/2003 |
| SRI | 1 | \$ 950.00 | Good | 2001 | 380579-M-411 | 05/01/2003 |
| Marin | 1 | \$ 950.00 | Good | 2001 | 380579-M-411 | 07/03/2003 |
| SRI | 1 | \$ 950.00 | Good | 2001 | 380579-M-411 | 04/03/2003 |
| Fairbanks | 1 | \$ 950.00 | Good | 2001 | 380579-M-411 | 09/29/2003 |
| Sturm | 1 | \$ 950.00 | Good | 2001 | 380579-M-411 | 05/01/2003 |
| Harper/Pfeffer | 1 | \$ 950.00 | Good | 2001 | 380579-M-411 | 03/18/2003 |
| SRI | 1 | \$ 950.00 | Good | 2001 | 380579-M-411 | 09/29/2003 |
| Sturm | 1 | \$ 950.00 | Good | 2001 | 380579-M-411 | 05/01/2003 |
| SRI | 1 | \$ 950.00 | Good | 2001 | 380579-M-496 | 09/29/2003 |
| SRI | 1 | \$ 650.00 | Good | 2001 | SRI-01003 | 09/29/2003 |
| SRI | 1 | \$ 7,595.00 | Good | 2001 | 380579-M-376 | 09/29/2003 |
| Oechel | 1 | \$ 7,595.00 | Good | 2001 | 380579-M-376 | 05/10/2003 |
| SRI | 1 | \$ 950.00 | Good | 2001 | 380579-M-496 | 06/09/2003 |
| SRI | 1 | \$ 950.00 | Good | 2001 | 380579-M-496 | 09/03/2003 |
| KISS | 1 | \$ 950.00 | Good | 2001 | 380579-M-496 | 07/31/2003 |
| KISS | 1 | \$ 950.00 | Good | 2001 | 380579-M-496 | 04/15/2003 |
| SRI | 1 | \$ 950.00 | Good | 2001 | 380122-M-259 | 06/10/2003 |

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|-------------------------|---|---------------|----------|------|---------------|------------|
| SRI | 1 | \$ 340.00 | Good | 2001 | 380122-M-259 | 05/12/2003 |
| SRI | 1 | \$ 340.00 | Good | 2001 | 380122-M-259 | 06/10/2003 |
| 534 | 1 | \$ 604.00 | Good | 2001 | 3880579-M-388 | 08/01/2003 |
| 532 | 1 | \$ 604.00 | Good | 2001 | 3880579-M-388 | 04/15/2003 |
| SRI | 1 | \$ 94.00 | New | 2001 | 3880579-M-388 | 09/29/2003 |
| 532 | 1 | \$ 94.00 | Good | 2001 | 3880579-M-388 | 04/15/2003 |
| SRI | 1 | \$ 950.00 | New | 2001 | 380579-M-496 | 09/29/2003 |
| Lewis | 1 | \$ 950.00 | New | 2001 | 380579-M-496 | 09/29/2003 |
| SRI | 1 | \$ 950.00 | New | 2001 | 380579-M-496 | 09/29/2003 |
| Scotia | 1 | \$ 22,200.00 | Good | | transferred | 08/01/2003 |
| Fairbanks | 1 | \$ 25,578.00 | Unknown | | transferred | 08/01/2003 |
| Fairbanks | 1 | \$ 29,337.00 | Unknown | | transferred | 08/01/2003 |
| Toolik | 1 | \$ 128,222.00 | Good | 1998 | transferred | 06/01/2003 |
| Toolik | 1 | \$ 50,000.00 | Fair | 1999 | transferred | 06/01/2003 |
| Toolik | 1 | \$ 168,842.00 | Good | 1999 | transferred | 06/01/2003 |
| Toolik | 1 | \$ 168,842.00 | Good | 1999 | transferred | 06/01/2003 |
| Toolik | 1 | \$ 168,842.00 | Good | 1999 | transferred | 06/01/2003 |
| Toolik | 1 | \$ 168,842.00 | Good | 1999 | transferred | 06/01/2003 |
| PFS | 1 | \$ 400.00 | Good | 2000 | purchase 2000 | 04/15/2003 |
| Fairbanks Garage | 1 | \$ 4,534.00 | Good | | transferred | 04/15/2003 |
| Fairbanks BULI100567 | 1 | \$ 2,380.00 | Fair | 1994 | transferred | 04/15/2003 |
| Trailer 1 | 1 | \$ 4,500.00 | Fair | 1983 | transferred | 06/01/2003 |
| Trailer 2 | 1 | \$ 4,500.00 | Fair | 1984 | transferred | 06/01/2003 |
| Prudhoe Bay | 1 | \$ 5,350.00 | Good | | transferred | 08/01/2003 |
| Prudhoe Bay | 1 | \$ 5,350.00 | Good | | transferred | 08/01/2003 |
| Prudhoe Bay | 1 | \$ 3,650.00 | Good | | transferred | 08/01/2003 |
| Fairbanks Garage | 1 | \$ 400.00 | Fair | 1999 | transferred | 04/15/2003 |
| Fairbanks BULI100567 | 1 | \$ 2,275.00 | Good | | transferred | 04/15/2003 |
| Russia | 1 | \$ 4,139.00 | Fair | 1998 | transferred | 05/20/2003 |
| Russia | 1 | \$ 4,139.00 | Fair | 1998 | transferred | 05/20/2003 |
| Disposed | 0 | \$ - | Disposed | | | |
| Q. Creek | 1 | \$ 6,999.00 | Good | 1999 | transferred | 08/01/2003 |
| Q. Creek | 1 | \$ 6,999.00 | Good | 1999 | transferred | 08/01/2003 |
| Atqasuk | 1 | \$ 4,600.00 | Good | 1998 | transferred | 08/01/2003 |
| Nome DMCU100633 | 1 | \$ 750.00 | Fair | 2000 | CA108 | 08/01/2003 |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Disposed | 0 | \$ - | Disposed | | transferred | |
| Nome CMCU205106 | 1 | \$ 5,399.00 | Good | 2000 | 380122-M-162 | 08/01/2003 |
| Q. Creek | 1 | \$ 5,399.00 | Good | 2000 | 380122-M-162 | 08/01/2003 |
| Oechel | 1 | \$ 4,500.00 | Fair | | transferred | 04/15/2003 |
| Disposed | 0 | \$ - | Disposed | | transferred | |

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|-------------------------|---|--------------|------|------|---------------|------------|
| Toolik | 1 | \$ 2,000.00 | Fair | | transferred | 06/01/2003 |
| Fairbanks BULI100567 | 1 | \$ 2,395.00 | Good | 1998 | CA048 | 04/15/2003 |
| SRI | 1 | \$ 1,800.00 | Fair | 1998 | transferred | 09/29/2003 |
| SRI | 1 | \$ 1,185.95 | Good | 2000 | CA030 | 09/29/2003 |
| PFS | 1 | \$ 399.00 | Good | 2001 | CG-477 | 08/01/2003 |
| Fairbanks | 1 | \$ 499.95 | Good | 2001 | CG477 | 04/15/2003 |
| 534 | 1 | \$ 399.00 | Good | 2001 | CG-477 | 08/01/2003 |
| Nome DMCU100633 | 1 | \$ 400.00 | Good | 1997 | transferred | 08/01/2003 |
| Nome DMCU100633 | 1 | \$ 600.00 | Fair | 2002 | transferred | 08/01/2003 |
| Nome CMCU205106 | 1 | \$ 15,750.00 | Good | 2000 | 380122-M-73 | 08/01/2003 |
| Fairbanks | 1 | \$ 2,200.00 | Good | | transferred | |
| Fairbanks Garage | 1 | \$ 2,500.00 | Good | | 380122-M- | 04/15/2003 |
| Nome DMCU100674 | 1 | \$ 1,579.00 | Good | 2000 | 380122-M-138 | 08/01/2003 |
| Nome DMCU100633 | 1 | \$ 750.00 | Fair | 2000 | transferred | 08/01/2003 |
| Oechel | 1 | \$ 4,500.00 | Good | | transferred | 04/15/2003 |
| Oechel | 1 | \$ 4,500.00 | Good | 2001 | | 04/15/2003 |
| Toolik | 1 | \$ 5,236.16 | Good | 2001 | 380898-M-340 | 06/01/2003 |
| 532 | 1 | \$ 330.00 | Good | 2001 | SRI-01001 | 06/10/2003 |
| SRI | 1 | \$ 330.00 | Good | 2001 | SRI-01001 | 06/10/2003 |
| SRI | 1 | \$ 330.00 | Good | 2001 | SRI-01001 | 09/29/2003 |
| SRI | 1 | \$ 495.00 | Good | 2001 | 380579-M-380 | 09/29/2003 |
| SRI | 1 | \$ 495.00 | Good | 2001 | 380579-M-380 | 07/03/2003 |
| 534 | 1 | \$ 330.00 | Good | 2001 | SRI-01002 | 08/01/2003 |
| Hinzman/Nolan | 1 | \$ 330.00 | Good | 2001 | SRI-01002 | 04/17/2003 |
| SRI | 1 | \$ 330.00 | Good | 2001 | SRI-01002 | 06/14/2003 |
| SRI | 1 | \$ 650.00 | Good | 2001 | SRI-01003 | 09/29/2003 |
| PFS Warehouse | 1 | \$ 10,050.00 | Good | 1991 | 380898-M-550 | 04/01/2003 |
| 534 | 1 | \$ 7,234.00 | Good | 2001 | 380122-M-650 | 08/01/2003 |
| 534 | 1 | \$ 1,039.00 | New | 2002 | 380898-M-625 | 08/01/2003 |
| 534 | 1 | \$ 1,899.99 | Good | 2002 | 380898-M-625 | 08/01/2003 |
| 534 | 1 | \$ 659.00 | Good | 2002 | 380898-M- | 08/01/2003 |
| Fairbanks Garage | 1 | \$ 1,750.00 | Fair | 1982 | 380579-09-911 | 04/15/2003 |
| Nome CMCU205106 | 1 | \$ 1,000.00 | Fair | 1992 | 380898-M-710 | 08/01/2003 |
| Nome DMCU100674 | 1 | \$ 1,000.00 | Fair | 2002 | 380898-M-710 | 08/01/2003 |
| Nome DMCU100674 | 1 | \$ 650.00 | Good | 2000 | | 08/01/2003 |
| Nome DMCU100674 | 1 | \$ 1,899.00 | Good | 2002 | | 08/01/2003 |
| Nome DMCU100674 | 1 | \$ 1,039.00 | New | 2001 | | 08/01/2003 |

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|--------------------|---|---------------|------|------|------------------|------------|
| Fairbanks Garage | 1 | \$ 2,500.00 | Good | 2002 | transferred | 04/15/2003 |
| Toolik | 1 | \$ 90,000.00 | Good | 2001 | site fabrication | 06/01/2003 |
| Summit | 1 | \$ 12,485.00 | New | 2002 | 380898-09sub | 08/01/2003 |
| Summit | 1 | \$ 12,485.00 | New | 2002 | 380898-09sub | 08/01/2003 |
| PFS | 0 | \$ - | New | 2003 | 381068-M-773 | 04/15/2003 |
| PFS | 1 | \$ 3,066.00 | New | 2002 | 381068-M-773 | 04/15/2003 |
| SRI | 1 | \$ 1,990.00 | Good | 2001 | 380579-M-377 | 04/11/2003 |
| SRI | 1 | \$ 1,990.00 | Good | 2001 | 380579-M-377 | 09/29/2003 |
| 532 | 1 | \$ 1,990.00 | Good | 2001 | 380579-M-377 | 09/03/2003 |
| Sedinger | 1 | \$ 1,990.00 | Good | 2001 | 380579-M-377 | 04/11/2003 |
| SRI | 1 | \$ 1,990.00 | Good | 2001 | 380579-M-377 | 08/07/2003 |
| Tweedie | 1 | \$ 1,990.00 | Good | 2001 | 380579-M-377 | 03/18/2003 |
| KISS | 1 | \$ 1,990.00 | Good | 2001 | 380579-M-377 | 09/03/2003 |
| 534 | 1 | \$ 1,990.00 | Good | 2001 | 380579-M-377 | 08/01/2003 |
| 532 | 1 | \$ 1,990.00 | Good | 2001 | 380579-M-377 | 04/15/2003 |
| 532 | 1 | \$ 1,990.00 | Good | 2001 | 380579-M-377 | 04/15/2003 |
| PFS | 1 | \$ 949.00 | New | 2002 | CG1075 | 04/15/2003 |
| 534 | 1 | \$ 6,999.00 | Good | 2002 | 380898-M-577 | 08/01/2003 |
| PFS | 1 | \$ 3,066.00 | New | 2002 | 381068-M-773 | 04/15/2003 |
| PFS | 1 | \$ 3,066.00 | New | 2002 | 381068-M-773 | 04/15/2003 |
| PFS | 1 | \$ 3,066.00 | New | 2003 | 381068-M-773 | 04/15/2003 |
| 532 | 1 | \$ 1,999.00 | New | 2003 | CG2118 | 08/01/2003 |
| KISS | 1 | \$ 300.00 | New | 2003 | CG2121 | 04/01/2003 |
| 534 | 1 | \$ 300.00 | New | 2003 | CG2121 | 04/01/2003 |
| 534 | 1 | \$ 138,906.00 | New | 2003 | 380898-M-530 | 08/01/2003 |
| 534 | 1 | \$ 2,500.00 | New | 2003 | 381068-M-826 | 08/01/2003 |
| Fairbanks Garage | 1 | \$ 4,500.00 | New | 2003 | 381068-M-871 | 06/01/2003 |
| Fairbanks | 1 | \$ 160.00 | New | 2003 | CA2245 | 05/15/2003 |
| Fairbanks | 1 | \$ 160.00 | New | 2003 | CA2245 | 05/15/2003 |
| Hinzman/Nolan | 1 | \$ 160.00 | New | 2003 | CA2245 | 05/15/2003 |
| PFS Warehouse | 1 | \$ 579.00 | New | 2003 | CI2367 | 04/01/2003 |
| Summit | 1 | \$ 10,745.00 | New | 2003 | 381068-M-824 | 06/01/2003 |
| Summit | 1 | \$ 124,369.00 | Good | 1999 | 380122-M-260 | 08/01/2003 |
| Toolik | 1 | \$ 1,700.00 | Fair | 1991 | 380579-M-385 | 06/01/2003 |
| Toolik | 1 | \$ 1,700.00 | Fair | 1989 | 380579-M-385 | 06/01/2003 |
| Nome DMCU100633 | 1 | \$ 2,000.00 | Fair | 1982 | 380579-M-265 | 08/01/2003 |
| Harper/Pfeffer | 1 | \$ 7,650.00 | Good | 2001 | 380579-M-303 | 04/15/2003 |
| Thule | 1 | \$ 1,377.00 | Good | 2001 | 380579-M-348 | |
| 532 | 1 | \$ 10,295.00 | Good | 1998 | 380579-M-294 | 08/01/2003 |
| Summit | 1 | \$ 29,300.00 | New | 2000 | 380122-M-255 | 08/01/2003 |
| 534 | 1 | \$ 1,595.00 | Poor | 2000 | 380122-M-247 | 08/01/2003 |
| Summit | 1 | \$ 6,243.50 | Good | 2000 | 380122-M-242 | 08/01/2003 |
| Summit | 1 | \$ 6,243.50 | Good | 2000 | 380122-M-242 | 08/01/2003 |
| Summit | 1 | \$ 7,041.00 | Good | 2001 | 380579-M-390 | 08/01/2003 |
| Summit | 1 | \$ 3,432.00 | Good | 2001 | 380579-M-390 | 08/01/2003 |
| Summit | 1 | \$ 3,432.00 | Good | 2001 | 380579-M-390 | 08/01/2003 |
| Summit | 1 | \$ 3,432.00 | Good | 2001 | 380579-M-390 | 08/01/2003 |
| Toolik | 1 | \$ 32,350.00 | Good | 2001 | 380579-16 sub | 06/01/2003 |

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|-----------------------|---|--------------|----------|------|---------------|------------|
| Summit | 1 | \$ 25,000.00 | Good | 2001 | 380579-07 sub | 08/01/2003 |
| 534 | 1 | \$ 800.00 | Good | 2001 | 380579-CG-491 | 08/01/2003 |
| 534 | 1 | \$ 800.00 | Good | 2001 | CG378 | 08/01/2003 |
| 534 | 1 | \$ 800.00 | Good | 1994 | transferred | 08/01/2003 |
| 534 | 1 | \$ 300.00 | Good | 2000 | 380579-GC- | 08/01/2003 |
| 534 | 1 | \$ 310.00 | New | 2001 | 380579-M-306 | 08/01/2003 |
| 534 | 1 | \$ 3,500.00 | Fair | | transferred | 08/01/2003 |
| 532 | 1 | \$ 500.00 | Good | 1993 | transferred | 08/01/2003 |
| 532 | 1 | \$ 500.00 | Good | 1993 | transferred | 08/01/2003 |
| 532 | 1 | \$ 500.00 | Good | 1993 | transferred | 08/01/2003 |
| 532 | 1 | \$ 500.00 | Good | 1993 | transferred | 08/01/2003 |
| 532 | 1 | \$ 500.00 | Good | 1986 | transferred | 08/01/2003 |
| Disposed | 0 | \$ - | Disposed | 2001 | 380579-M-301 | |
| Clyde Inlet | 1 | \$ 3,025.00 | Good | 2001 | 380579-M-416 | 06/01/2003 |
| SRI | 1 | \$ 950.00 | Good | 2001 | 380579-M-496 | 06/10/2003 |
| SRI | 1 | \$ 950.00 | Good | 2001 | 380579-M-496 | 09/09/2003 |
| SRI | 1 | \$ 950.00 | Good | 2002 | 380579-M-378 | 04/15/2003 |
| SRI | 1 | \$ 950.00 | Good | 2002 | 380579-M-378 | 09/29/2003 |
| Hinzman/Yoshika wa | 1 | \$ 950.00 | Good | 2002 | 380579-M-378 | 03/27/2003 |
| SRI | 1 | \$ 950.00 | Good | 2002 | 380579-M-378 | 09/29/2003 |
| SRI | 1 | \$ 950.00 | Good | 2002 | 380579-M-378 | 04/08/2003 |
| SRI | 1 | \$ 950.00 | Good | 2002 | 380579-M-378 | 09/29/2003 |
| Marin | 1 | \$ 950.00 | Good | 2002 | 380579-M-378 | 09/29/2003 |
| SRI | 1 | \$ 950.00 | Good | 2002 | 380579-M-378 | 09/03/2003 |
| SRI | 1 | \$ 1,069.00 | Good | 2001 | CS797 | 08/01/2003 |
| SRI | 1 | \$ 1,069.00 | Good | 2001 | CS797 | 08/01/2003 |
| KISS | 1 | \$ 810.99 | Good | 2002 | CS938 | 08/01/2003 |
| SRI | 1 | \$ 650.00 | Good | 2001 | 380579-M-603 | 04/29/2003 |
| Hinzman/Nolan | 1 | \$ 650.00 | Good | 2001 | 380579-M-603 | 09/29/2003 |
| Oechel | 1 | \$ 650.00 | Good | 2001 | 380579-M-603 | 09/29/2003 |
| Eisner | 1 | \$ 950.00 | Good | 2001 | 380579-M-496 | 04/16/2003 |
| Woodgate | 1 | \$ 950.00 | Good | 2001 | 380579-M-496 | 07/23/2003 |
| Miller | 1 | \$ 950.00 | Good | 2001 | 380579-M-496 | 02/17/2003 |
| Eisner | 1 | \$ 950.00 | Good | 2001 | 380579-M-496 | 04/11/03 |
| 532 | 1 | \$ 950.00 | Good | 2001 | 380579-M-496 | 09/03/2003 |
| Thompson | 1 | \$ 950.00 | Good | 2001 | 380579-M-496 | 09/03/2003 |
| SRI | 1 | \$ 650.00 | Good | 2001 | 380579-M-603 | 06/26/2003 |
| KISS | 1 | \$ 1,200.00 | Good | 2001 | n/a | 04/15/2003 |
| KISS | 1 | \$ 1,200.00 | Good | 2001 | n/a | 04/15/2003 |
| SRI | 1 | \$ 1,200.00 | Good | 2002 | n/a | 04/15/2003 |
| 534 | 1 | \$ 1,200.00 | Good | 2002 | 380898-M-602 | 08/01/2003 |
| 532 | 1 | \$ 1,200.00 | Good | 2002 | 380898-M-602 | 04/15/2003 |
| 532 | 1 | \$ 1,200.00 | Good | 2002 | 380898-M-602 | 09/29/2003 |
| 534 | 1 | \$ 320.00 | Good | 1999 | transferred | 08/01/2003 |
| SRI | 1 | \$ 1,495.00 | New | 2003 | 381068-M-866 | 06/05/2003 |
| SRI | 1 | \$ 1,495.00 | New | 2003 | 381068-M-866 | 08/07/2003 |
| SRI | 1 | \$ 1,495.00 | New | 2003 | 381068-M-866 | 06/10/2003 |
| SRI | 1 | \$ 1,495.00 | New | 2003 | 381068-M-866 | 07/25/2003 |
| SRI | 1 | \$ 1,495.00 | New | 2003 | 381068-M-866 | 06/10/2003 |
| SRI | 1 | \$ 1,495.00 | New | 2003 | 381068-M-866 | 06/10/2003 |
| SRI | 1 | \$ 1,495.00 | New | 2003 | 381068-M-866 | 08/07/2003 |

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|-----------------------|---|---------------|------|------|----------------------|------------|
| SRI | 1 | \$ 1,495.00 | New | 2003 | 381068-M-866 | 07/03/2003 |
| SRI | 1 | \$ 499.00 | New | 2003 | 381068-M-868 | 05/05/2003 |
| Clyde Inlet | 1 | \$ 8,339.00 | New | 2001 | 380579-M-391 | 06/01/2003 |
| PFS Warehouse | 1 | \$ 3,459.00 | Good | 2000 | 380122-M-230 | 04/01/2003 |
| Summit | 1 | \$ 123,352.00 | Good | 2001 | 380579-Sub06 | 08/01/2003 |
| KISS | 1 | \$ 27,952.00 | Fair | 1986 | excess prop transfer | 08/01/2003 |
| Trailer 1 | 1 | \$ 8,225.00 | New | 2001 | 380579-M-455 | 06/01/2003 |
| Fairbanks | 2 | \$ 7,500.00 | New | 2001 | 380579-M-295 | 04/15/2003 |
| Fairbanks Garage | 1 | \$ 7,297.00 | New | 2001 | 380579-M-511 | 04/15/2003 |
| Fairbanks | 1 | \$ 2,699.00 | Good | 2002 | 380898-M-565 | 04/15/2003 |
| Fairbanks Weatherport | 1 | \$ 7,297.00 | New | 2001 | 380579-M-511 | 04/15/2003 |
| Fairbanks Weatherport | 1 | \$ 27,290.00 | Fair | 1988 | excess prop transfer | 06/01/2003 |
| Fairbanks Weatherport | 1 | \$ 27,290.00 | Fair | 1988 | excess prop transfer | 06/01/2003 |
| PFS | 1 | \$ 2,699.00 | Good | 2002 | 380898-M-565 | 04/15/2003 |
| PFS | 1 | \$ 2,699.00 | Good | 2002 | 380898-M-565 | 04/15/2003 |
| 534 | 1 | \$ 1,039.39 | New | 2001 | 380898-M-569 | 08/01/2003 |
| 534 | 1 | \$ 1,039.39 | New | 2002 | 380898-M-569 | 08/01/2003 |
| Summit | 1 | \$ 900.00 | Fair | 1978 | 380579-M-517 | 08/01/2003 |
| Summit | 1 | \$ 900.00 | Fair | 1986 | 380579-M-517 | 08/01/2003 |
| 532 | 1 | \$ 995.00 | Good | 2002 | 380898-M-556 | 08/01/2003 |
| Fairbanks | 1 | \$ 150.00 | Good | 2002 | | 04/15/2003 |
| PFS | 1 | \$ 2,699.00 | Good | 2002 | 380898-M-565 | 04/15/2003 |
| KISS | 1 | \$ 250.00 | Fair | 1999 | transferred | 04/15/2003 |
| 534 | 1 | \$ 4,999.00 | Fair | 1993 | transferred | 08/01/2003 |
| 534 | 1 | \$ 4,999.00 | Fair | 1993 | transferred | 08/01/2003 |
| 534 | 1 | \$ 1,899.99 | New | 2001 | 380898-M- | 08/01/2003 |
| 534 | 1 | \$ 1,000.00 | Fair | | transferred | 08/01/2003 |
| 534 | 1 | \$ 1,000.00 | Fair | | transferred | 08/01/2003 |
| 534 | 1 | \$ 1,039.00 | New | 2001 | 380898-M-569 | 08/01/2003 |
| 534 | 1 | \$ 1,039.39 | New | 2002 | 380898-M-569 | 08/01/2003 |
| Fairbanks | 1 | \$ 35,036.00 | New | 2001 | 380898-M-607 | 04/15/2003 |
| Fairbanks Weatherport | 1 | \$ 35,036.00 | New | 2001 | 380898-M-607 | 04/15/2003 |
| Fairbanks | 1 | \$ 1,099.00 | New | 2001 | 380898-M-575 | 04/15/2003 |
| Oechel | 1 | \$ 1,099.00 | New | 2001 | 380898-M-575 | 04/15/2003 |
| Fairbanks Garage | 1 | \$ 1,429.95 | New | 2001 | 380898-M-575 | 04/15/2003 |
| Fairbanks BUL1100567 | 1 | \$ 2,669.95 | New | 2001 | 380898-M-575 | 04/15/2003 |
| Fairbanks Weatherport | 1 | \$ 4,034.00 | New | 2002 | 380898-M-542 | 04/15/2003 |
| Fairbanks Garage | 1 | \$ 4,034.00 | New | 2002 | 380898-M-542 | 04/15/2003 |
| Fairbanks Weatherport | 1 | \$ 6,966.00 | New | 2002 | 380898-M-542 | 04/15/2003 |
| Fairbanks Weatherport | 1 | \$ 1,880.00 | New | 2001 | 380898-M-581 | 04/15/2003 |
| 534 | 1 | \$ 1,000.00 | Fair | | GBI | 08/01/2003 |
| 534 | 1 | \$ 200.00 | Good | 2001 | | 08/01/2003 |
| 534 | 1 | \$ 209.00 | Good | 2001 | CG693 | 08/01/2003 |
| 532 | 1 | \$ 150.00 | Good | 2002 | transferred | 04/15/2003 |

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|---------------|---|---------------|----------|------|---------------|------------|
| 532 | 1 | \$ 100.00 | Good | 1999 | transferred | 09/29/2003 |
| Summit | 1 | \$ 1,000.00 | Fair | 1994 | | 08/01/2003 |
| Toolik | 1 | \$ 50,000.00 | Fair | 1999 | transferred | 06/01/2003 |
| 534 | 1 | \$ 200.00 | Good | 2001 | GBI | 08/01/2003 |
| 534 | 1 | \$ 200.00 | Good | | GBI | 08/01/2003 |
| KISS | 1 | \$ 150.00 | New | 2002 | CG470 | 08/01/2003 |
| 534 | 1 | \$ 300.00 | New | 2002 | CG779 | 08/01/2003 |
| Clyde Inlet | 1 | \$ 6,977.60 | Good | 1998 | 380898-M-629 | 06/01/2003 |
| Clyde Inlet | 1 | \$ 7,569.00 | Good | 2002 | 380898-M-629 | 06/01/2003 |
| Clyde Inlet | 1 | \$ 7,764.50 | Good | 2001 | 380898-M-629 | 06/01/2003 |
| Clyde Inlet | 1 | \$ 7,764.50 | Good | 2001 | 380898-M-629 | 06/01/2003 |
| Disposed | 0 | \$ - | Disposed | 2002 | 380898-M-629 | |
| Toolik | 1 | \$ 5,236.16 | Good | 2001 | 380898-M-340 | 06/01/2003 |
| Toolik | 1 | \$ 5,236.16 | Good | 2001 | 380898-M-340 | 06/01/2003 |
| Toolik | 1 | \$ 3,616.83 | Good | 2000 | 380579-M-340 | 06/01/2003 |
| Summit | 1 | \$ 29,480.00 | New | 2003 | 381068-SUB14 | 06/01/2003 |
| Summit | 1 | \$ 8,845.00 | New | 2003 | 381068-SUB13 | 06/01/2003 |
| Toolik | 1 | \$ 55,420.00 | Good | 1997 | 381068-M958 | 08/20/2003 |
| Toolik | 1 | \$ 493,300.00 | New | 2002 | 380898-02 Sub | 08/20/2003 |
| 534 | 1 | \$ 949.99 | New | 2001 | 380898-M-625 | 08/01/2003 |
| 534 | 1 | \$ 659.99 | New | 2001 | 380898-M-625 | 08/01/2003 |
| 534 | 1 | \$ 949.99 | New | 2001 | 380898-M-625 | 08/01/2003 |
| 534 | 1 | \$ 659.99 | New | 2001 | 380898-M-625 | 08/01/2003 |
| 534 | 1 | \$ 1,039.99 | New | 2001 | 380898-M-625 | 08/01/2003 |
| 534 | 1 | \$ 1,899.99 | Good | 2001 | 380898-M-625 | 08/01/2003 |
| KISS | 1 | \$ 150.00 | New | 2002 | CG470 | 08/01/2003 |
| Summit | 1 | \$ 6,999.00 | Good | 2001 | 380898-M-576 | 08/01/2003 |
| Summit | 1 | \$ 100,000.00 | Fair | 1996 | transferred | 08/01/2003 |
| SRI | 1 | \$ 399.00 | New | 2002 | SRI-01000 | 05/12/2003 |
| SRI | 1 | \$ 399.00 | New | 2002 | SRI-01000 | 09/29/2003 |
| Kellyville | 1 | \$ 260.00 | Good | 2003 | 2446 | 08/04/2003 |
| SRI | 1 | \$ 270.00 | Good | 2003 | 381068-2416CS | 06/29/2003 |
| SRI | 1 | \$ 650.00 | Good | 2001 | 380898-M-603 | 06/26/2003 |
| Hinzman | 1 | \$ 1,146.00 | New | 2001 | SRI | 04/15/2003 |
| SRI | 1 | \$ 2,215.00 | Good | 2002 | 380898-M-720 | 08/11/2003 |
| SRI | 1 | \$ 2,215.00 | Good | 2002 | 380898-M-720 | 08/11/2003 |
| SRI | 1 | \$ 1,995.00 | Good | 2002 | 380898-M-720 | 08/11/2003 |
| SAG River | 1 | \$ 1,900.00 | Good | 2002 | 380898-M-671 | 08/11/2003 |
| SRI | 1 | \$ 1,900.00 | Good | 2002 | 380898-M-671 | 08/11/2003 |
| SRI | 1 | \$ 1,200.00 | Good | 2002 | 380898-M-713 | 08/11/2003 |
| SRI | 1 | \$ 1,200.00 | Good | 2002 | 380898-M-714 | 08/11/2003 |
| Oechel-Ivotuk | 1 | \$ 5,085.00 | Good | 2002 | 380989-M-734 | 08/11/2003 |
| Oechel-Ivotuk | 1 | \$ 1,215.00 | Good | 2002 | 380898-M-732 | 08/11/2003 |
| Oechel-Ivotuk | 1 | \$ 1,215.00 | Good | 2002 | 380898-M-732 | 08/11/2003 |
| Oechel-Ivotuk | | \$ 3,500.00 | Good | 2002 | 380898-M737 | 08/11/2003 |
| SRI | 1 | \$ 369.00 | Good | 2003 | 381068-2187CS | 09/29/2003 |
| SRI | 1 | \$ 1,735.84 | Good | 2003 | 381068-M-841 | 09/29/2003 |
| 534 | 1 | \$ 1,735.84 | Good | 2003 | 381068-M-841 | 08/01/2003 |
| KISS | 1 | \$ 1,114.00 | Good | 2003 | | 06/01/2003 |
| SRI | 1 | \$ 1,495.00 | New | 2003 | 381068-M-866 | 09/29/2003 |
| SRI | 1 | \$ 1,495.00 | New | 2003 | 381068-M-866 | 09/29/2003 |

| | | | | | | | |
|-------------|---|----|-----------|------|------|---------------|------------|
| SRI | 1 | \$ | 565.00 | New | 2003 | 381068-M-869 | 09/29/2003 |
| SRI | 1 | \$ | 125.00 | Good | 2003 | 381068-M869 | 09/29/2003 |
| SRI | 1 | \$ | 950.00 | Good | 2001 | 380579-M-496 | 09/29/2003 |
| SRI | 1 | \$ | 950.00 | Good | 2001 | 380579-M-496 | 09/03/2003 |
| SRI | 1 | \$ | 650.00 | Good | 2001 | 380579-M-496 | 09/29/2003 |
| 534 | 1 | \$ | 1,000.00 | Good | 2001 | SRI-01003 | 08/01/2003 |
| 532 | 1 | \$ | 1,000.00 | Good | 2001 | 380579-M-380 | 04/15/2003 |
| 532 | 1 | \$ | 295.00 | Good | 2001 | 380579-M-380 | 06/26/2003 |
| 534 | 1 | \$ | 825.00 | Good | 2001 | SRI-10021 | 08/01/2003 |
| SRI | 1 | \$ | 825.00 | Good | 2001 | R10022 | 05/01/2003 |
| SRI | 1 | \$ | 295.00 | Good | 2001 | 380579-M-380 | 06/26/2003 |
| SRI | 1 | \$ | 320.00 | Good | 1999 | transferred | 09/29/2003 |
| SRI | 1 | \$ | 379.00 | Good | 2003 | 381068-M-869 | 09/29/2003 |
| SRI | 1 | \$ | 379.00 | Good | 2003 | 381068-M-869 | 09/29/2003 |
| SRI | 1 | \$ | 379.00 | Good | 2003 | 381068-M-869 | 09/29/2003 |
| SRI | 1 | \$ | 379.00 | Good | 2003 | 381068-M-869 | 09/29/2003 |
| SRI | 1 | \$ | 379.00 | Good | 2003 | 381068-M-869 | 09/29/2003 |
| SRI | 1 | \$ | 379.00 | Good | 2003 | 381068-M-869 | 09/29/2003 |
| SRI | 1 | \$ | 379.00 | Good | 2003 | 381068-M-869 | 09/29/2003 |
| SRI | 1 | \$ | 125.00 | Good | 2003 | 381068-2242CS | 09/29/2003 |
| SRI | 1 | \$ | 125.00 | Good | 2003 | 381068-2242CS | 09/29/2003 |
| SRI | 1 | \$ | 125.00 | Good | 2003 | 381068-2242CS | 09/29/2003 |
| SRI | 1 | \$ | 565.00 | Good | 2003 | 381068-M-869 | 09/29/2003 |
| SRI | 1 | \$ | 565.00 | Good | 2003 | 381068-M-869 | 09/29/2003 |
| SRI | 1 | \$ | 565.00 | Good | 2003 | 381068-M-869 | 09/29/2003 |
| SRI | 1 | \$ | 565.00 | Good | 2003 | 381068-M-869 | 09/29/2003 |
| SRI | 1 | \$ | 565.00 | Good | 2003 | 381068-M-869 | 09/29/2003 |
| SRI | 1 | \$ | 565.00 | Good | 2003 | 381068-M-869 | 09/29/2003 |
| Russia | 1 | \$ | 3,200.00 | Good | 2001 | 380898-SUB05 | 05/20/2003 |
| Russia | 1 | \$ | 20,000.00 | Good | 1990 | 380898-SUB05 | 05/20/2003 |
| Russia | 1 | \$ | 2,845.00 | Good | 1995 | 380898-SUB05 | 05/20/2003 |
| Russia | 1 | \$ | 3,870.00 | New | 2001 | 380579-SUB02 | 05/20/2003 |
| Russia | 1 | \$ | 23,660.00 | Good | 1998 | 380579-SUB02 | 05/20/2003 |
| Russia | 1 | \$ | 14,850.00 | Fair | 1998 | 380579-SUB02 | 05/20/2003 |
| Russia | 1 | \$ | 9,792.00 | New | 2003 | 381068-SUB04 | 05/20/2003 |
| PFS | 1 | \$ | 229.00 | New | 2003 | 381068-M-923 | 06/01/2003 |
| PFS | 1 | \$ | 229.00 | New | 2003 | 381068-M-923 | 06/01/2003 |
| Clyde Inlet | 1 | \$ | 1,703.32 | Good | 2003 | 381068-M-921 | 06/01/2003 |
| SRI | 1 | \$ | 499.00 | New | 2003 | 381068-M-868 | 09/29/2003 |
| SRI | 1 | \$ | 499.00 | New | 2003 | 381068-M-868 | 04/05/2003 |
| SRI | 1 | \$ | 499.00 | New | 2003 | 381068-M-868 | 04/05/2003 |
| summit | 1 | \$ | 1,095.00 | Good | 2003 | 381068-M-894 | 5/6/03 |
| summit | 1 | \$ | 1,095.00 | Good | 2003 | 381068-M-894 | 5/6/03 |
| summit | 1 | \$ | 1,095.00 | Good | 2003 | 381068-M-894 | 5/6/03 |
| SRI | 1 | \$ | 1,095.00 | Good | 2003 | 381068-2316CA | 9/29/03 |
| SRI | 1 | \$ | 565.00 | Good | 2003 | 381068-2364CS | 9/29/03 |
| SRI | 1 | \$ | 565.00 | Good | 2003 | 381068-2364CS | 9/29/03 |
| summit | 1 | \$ | 565.00 | Good | 2003 | 381068-2364CS | 6/10/03 |
| SRI | 1 | \$ | 125.00 | Good | 2003 | 381068-2365CS | 9/29/03 |
| SRI | 1 | \$ | 248.00 | Good | 2003 | 381068-2365CS | 9/29/03 |
| SRI | 1 | \$ | 248.00 | Good | 2003 | 381068-2365CS | 9/29/03 |
| SRI | 1 | \$ | 350.00 | Good | 2001 | n/a | 9/29/03 |

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|-------------------------|---|---------------|------|------|---------------|---------|
| overeem | 1 | \$ 350.00 | Good | 2001 | n/a | 7/3/03 |
| SRI | 1 | \$ 350.00 | Good | 2001 | n/a | 9/29/03 |
| SRI | 1 | \$ 270.00 | Good | 2003 | 381068-2416CS | 9/29/03 |
| SRI | 1 | \$ 330.00 | Good | 2003 | 381068-2417CS | 9/29/03 |
| SRI | 1 | \$ 330.00 | Good | 2003 | 381068-2417CS | 9/29/03 |
| SRI | 1 | \$ 330.00 | Good | 2003 | 381068-2417CS | 9/29/03 |
| SRI | 1 | \$ 375.00 | Good | 2003 | 381068-M908 | 9/29/03 |
| Beliy Island, Russia | 1 | \$ 199,717.00 | Good | 2002 | 380898-08 Sub | 9/30/03 |
| Beliy Island, Russia | 1 | \$ 3,444.00 | Good | 2002 | 380898-08 Sub | 9/30/03 |
| Beliy Island, Russia | 1 | \$ 1,843.00 | Good | 2003 | 381068-29 Sub | 9/30/03 |
| Beliy Island, Russia | 1 | \$ 15,120.00 | Good | 2003 | 381068-29 Sub | 9/30/03 |
| Beliy Island, Russia | 1 | \$ 15,120.00 | Good | 2003 | 381068-29 Sub | 9/30/03 |
| Beliy Island, Russia | 1 | \$ 15,120.00 | Good | 2003 | 381068-29 Sub | 9/30/03 |
| Beliy Island, Russia | 1 | \$ 19,920.00 | Good | 2003 | 381068-29 Sub | 9/30/03 |
| Beliy Island, Russia | 1 | \$ 2,058.00 | Good | 2003 | 381068-29 Sub | 9/30/03 |
| Beliy Island, Russia | 1 | \$ 2,655.00 | Good | 2003 | 381068-29 Sub | 9/30/03 |
| Beliy Island, Russia | 1 | \$ 1,079.00 | Good | 2003 | 381068-29 Sub | 9/30/03 |
| Beliy Island, Russia | 1 | \$ 1,926.00 | Good | 2003 | 381068-29 Sub | 9/30/03 |
| Beliy Island, Russia | 1 | \$ 996.00 | Good | 2003 | 381068-29 Sub | 9/30/03 |
| Beliy Island, Russia | 1 | \$ 4,449.00 | Good | 2003 | 381068-29 Sub | 9/30/03 |
| Beliy Island, Russia | 1 | \$ 896.00 | Good | 2003 | 381068-29 Sub | 9/30/03 |
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\$ 5,445,925.50

| Depreciation Schedule | Years Considered | Yearly Rate of Depreciation | Depreciated Amount | Current Value | Fed. Stock Group # | Fed. Stock # |
|-----------------------|------------------|-----------------------------|--------------------|---------------|--------------------|--------------|
| 7 | 5 | \$ 357.14 | \$ 1,785.71 | \$ 714.29 | 58 | 5805 |
| 7 | 5 | \$ 357.14 | \$ 1,785.71 | \$ 714.29 | 58 | 5805 |
| 7 | 7 | \$ 357.14 | \$ 2,500.00 | \$ - | 58 | 5805 |
| 7 | 7 | \$ 357.14 | \$ 2,500.00 | \$ - | 58 | 5805 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5805 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5805 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5805 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5805 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5805 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5805 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5805 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5805 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5805 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5805 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5805 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5805 |
| 7 | 5 | \$ 486.57 | \$ 2,432.86 | \$ 973.14 | 58 | 5805 |
| 7 | 5 | \$ 486.57 | \$ 2,432.86 | \$ 973.14 | 58 | 5800 |
| 5 | 4 | \$ 440.00 | \$ 1,760.00 | \$ 440.00 | 70 | 7025 |
| 5 | 4 | \$ 440.00 | \$ 1,760.00 | \$ 440.00 | 70 | 7025 |
| 5 | 4 | \$ 700.00 | \$ 2,800.00 | \$ 700.00 | 70 | 7025 |
| 5 | 4 | \$ 540.00 | \$ 2,160.00 | \$ 540.00 | 70 | 7025 |
| 7 | 7 | \$ 114.29 | \$ 800.00 | \$ - | 58 | 5895 |
| 7 | 5 | \$ 240.29 | \$ 1,201.43 | \$ 480.57 | 59 | 5985 |
| 10 | 4 | \$ 75.00 | \$ 300.00 | \$ 450.00 | 23 | 2330 |
| 10 | 5 | \$ 300.00 | \$ 1,500.00 | \$ 1,500.00 | 54 | 5410 |
| 10 | 5 | \$ 361.00 | \$ 1,805.00 | \$ 1,805.00 | 54 | 5410 |
| 7 | 4 | \$ 42.86 | \$ 171.43 | \$ 128.57 | 58 | 5895 |
| 7 | 4 | \$ 42.86 | \$ 171.43 | \$ 128.57 | 58 | 5895 |
| 7 | 4 | \$ 42.86 | \$ 171.43 | \$ 128.57 | 58 | 5895 |
| 7 | 4 | \$ 42.86 | \$ 171.43 | \$ 128.57 | 58 | 5895 |
| 7 | 4 | \$ 413.57 | \$ 1,654.29 | \$ 1,240.71 | 58 | 5805 |
| 7 | 4 | \$ 413.57 | \$ 1,654.29 | \$ 1,240.71 | 58 | 5805 |
| 7 | 4 | \$ 285.00 | \$ 1,140.00 | \$ 855.00 | 58 | 5805 |
| 7 | 4 | \$ 285.00 | \$ 1,140.00 | \$ 855.00 | 58 | 5805 |
| 7 | 4 | \$ 285.00 | \$ 1,140.00 | \$ 855.00 | 58 | 5805 |

| | | | | | | |
|----|---|-----------|-------------|-------------|----|------|
| 5 | 0 | \$ - | \$ - | \$ - | 66 | 6605 |
| 5 | 4 | \$ 540.00 | \$ 2,160.00 | \$ 540.00 | 70 | 7025 |
| 5 | 4 | \$ 700.00 | \$ 2,800.00 | \$ 700.00 | 70 | 7025 |
| 7 | 5 | \$ 100.00 | \$ 500.00 | \$ 200.00 | 32 | 3220 |
| 10 | 5 | \$ 120.00 | \$ 600.00 | \$ 600.00 | 61 | 6115 |
| 10 | 5 | \$ 120.00 | \$ 600.00 | \$ 600.00 | 61 | 6115 |
| 5 | 4 | \$ 141.00 | \$ 564.00 | \$ 141.00 | 32 | 3230 |
| 5 | 4 | \$ 141.00 | \$ 564.00 | \$ 141.00 | 32 | 3230 |
| 5 | 4 | \$ 540.00 | \$ 2,160.00 | \$ 540.00 | 70 | 7025 |
| 5 | 4 | \$ 440.00 | \$ 1,760.00 | \$ 440.00 | 70 | 7025 |
| 5 | 4 | \$ 153.80 | \$ 615.20 | \$ 153.80 | 67 | 6720 |
| 5 | 4 | \$ 153.80 | \$ 615.20 | \$ 153.80 | 67 | 6720 |
| 10 | 0 | \$ - | \$ - | \$ - | 61 | 6115 |
| 10 | 0 | \$ - | \$ - | \$ - | 61 | 6115 |
| 10 | 0 | \$ - | \$ - | \$ - | 61 | 6115 |
| 7 | 5 | \$ 516.43 | \$ 2,582.14 | \$ 1,032.86 | 59 | 5985 |
| 7 | 5 | \$ 516.43 | \$ 2,582.14 | \$ 1,032.86 | 59 | 5985 |
| 7 | 7 | \$ 347.14 | \$ 2,430.00 | \$ - | 58 | 5895 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5895 |
| 7 | 7 | \$ 357.14 | \$ 2,500.00 | \$ - | 58 | 5895 |
| 7 | 7 | \$ 357.14 | \$ 2,500.00 | \$ - | 58 | 5895 |
| 7 | 7 | \$ 407.00 | \$ 2,849.00 | \$ - | 58 | 5895 |
| 7 | 7 | \$ 407.00 | \$ 2,849.00 | \$ - | 58 | 5895 |
| 5 | 0 | \$ - | \$ - | \$ - | 66 | 6685 |
| 7 | 7 | \$ 428.57 | \$ 3,000.00 | \$ - | 58 | 5895 |
| 7 | 6 | \$ 347.14 | \$ 2,082.86 | \$ 347.14 | 58 | 5895 |
| 7 | 6 | \$ 347.14 | \$ 2,082.86 | \$ 347.14 | 58 | 5895 |
| 7 | 6 | \$ 347.14 | \$ 2,082.86 | \$ 347.14 | 58 | 5895 |
| 7 | 7 | \$ 357.14 | \$ 2,500.00 | \$ - | 58 | 5895 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5895 |
| 7 | 7 | \$ 342.86 | \$ 2,400.00 | \$ - | 58 | 5895 |
| 7 | 7 | \$ 342.86 | \$ 2,400.00 | \$ - | 58 | 5895 |
| 7 | 5 | \$ 516.43 | \$ 2,582.14 | \$ 1,032.86 | 59 | 5985 |
| 7 | 5 | \$ 516.43 | \$ 2,582.14 | \$ 1,032.86 | 59 | 5985 |
| 7 | 5 | \$ 20.57 | \$ 102.86 | \$ 41.14 | 61 | 6150 |
| 7 | 5 | \$ 20.57 | \$ 102.86 | \$ 41.14 | 61 | 6150 |
| 7 | 5 | \$ 20.57 | \$ 102.86 | \$ 41.14 | 61 | 6150 |
| 7 | 0 | \$ - | \$ - | \$ - | 61 | 6150 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5895 |
| 7 | 7 | \$ 114.29 | \$ 800.00 | \$ - | 58 | 5895 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5895 |
| 7 | 7 | \$ 114.29 | \$ 800.00 | \$ - | 58 | 5895 |
| 7 | 7 | \$ 114.29 | \$ 800.00 | \$ - | 58 | 5895 |
| 7 | 7 | \$ 114.29 | \$ 800.00 | \$ - | 58 | 5895 |
| 7 | 7 | \$ 57.14 | \$ 400.00 | \$ - | 58 | 5895 |

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|----|---|-----------|-------------|-----------|----|------|
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5895 |
| 7 | 7 | \$ 152.71 | \$ 1,069.00 | \$ - | 58 | 5895 |
| 7 | 7 | \$ 152.71 | \$ 1,069.00 | \$ - | 58 | 5895 |
| 7 | 0 | \$ - | \$ - | \$ - | 59 | 5999 |
| 7 | 0 | \$ - | \$ - | \$ - | 59 | 5999 |
| 7 | 0 | \$ - | \$ - | \$ - | 66 | 6605 |
| 7 | 0 | \$ - | \$ - | \$ - | 66 | 6605 |
| 7 | 7 | \$ 200.00 | \$ 1,400.00 | \$ - | 66 | 6605 |
| 7 | 0 | \$ - | \$ - | \$ - | 66 | 6605 |
| 7 | 7 | \$ 200.00 | \$ 1,400.00 | \$ - | 66 | 6605 |
| 7 | 7 | \$ 200.00 | \$ 1,400.00 | \$ - | 66 | 6605 |
| 7 | 0 | \$ - | \$ - | \$ - | 61 | 6115 |
| 7 | 0 | \$ - | \$ - | \$ - | 61 | 6115 |
| 7 | 0 | \$ - | \$ - | \$ - | 61 | 6115 |
| 7 | 0 | \$ - | \$ - | \$ - | 61 | 6115 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5895 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5895 |
| 7 | 7 | \$ 90.00 | \$ 630.00 | \$ - | 58 | 5895 |
| 7 | 7 | \$ 90.00 | \$ 630.00 | \$ - | 58 | 5895 |
| 7 | 7 | \$ 14.29 | \$ 100.00 | \$ - | 58 | 5895 |
| 7 | 7 | \$ 14.29 | \$ 100.00 | \$ - | 58 | 5895 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5895 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5895 |
| 7 | 7 | \$ 84.86 | \$ 594.00 | \$ - | 58 | 5895 |
| 7 | 7 | \$ 84.86 | \$ 594.00 | \$ - | 58 | 5895 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5895 |
| 7 | 7 | \$ 93.71 | \$ 656.00 | \$ - | 58 | 5895 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5895 |
| 7 | 6 | \$ 114.29 | \$ 685.71 | \$ 114.29 | 58 | 5895 |
| 7 | 6 | \$ 114.29 | \$ 685.71 | \$ 114.29 | 58 | 5895 |
| 7 | 6 | \$ 114.29 | \$ 685.71 | \$ 114.29 | 58 | 5895 |
| 7 | 6 | \$ 114.29 | \$ 685.71 | \$ 114.29 | 58 | 5895 |
| 7 | 6 | \$ 114.29 | \$ 685.71 | \$ 114.29 | 58 | 5895 |
| 10 | 5 | \$ 30.00 | \$ 150.00 | \$ 150.00 | 61 | 6115 |
| 5 | 5 | \$ 200.00 | \$ 1,000.00 | \$ - | 43 | 4320 |
| 5 | 5 | \$ 148.80 | \$ 744.00 | \$ - | 45 | 4540 |
| 5 | 5 | \$ 65.80 | \$ 329.00 | \$ - | 41 | 4110 |
| 5 | 5 | \$ 479.80 | \$ 2,399.00 | \$ - | 41 | 4110 |

| | | | | | | |
|----|---|-------------|--------------|-------------|----|------|
| 5 | 0 | \$ - | \$ - | \$ - | 73 | 7320 |
| 5 | 0 | \$ - | \$ - | \$ - | 41 | 4110 |
| 5 | 5 | \$ 148.80 | \$ 744.00 | \$ - | 45 | 4540 |
| 5 | 5 | \$ 160.00 | \$ 800.00 | \$ - | 81 | 8145 |
| 5 | 5 | \$ 160.00 | \$ 800.00 | \$ - | 81 | 8145 |
| 5 | 5 | \$ 920.00 | \$ 4,600.00 | \$ - | 23 | 2340 |
| 10 | 5 | \$ 227.50 | \$ 1,137.50 | \$ 1,137.50 | 61 | 6115 |
| 10 | 5 | \$ 120.00 | \$ 600.00 | \$ 600.00 | 61 | 6115 |
| 10 | 5 | \$ 120.00 | \$ 600.00 | \$ 600.00 | 61 | 6115 |
| 5 | 5 | \$ 200.00 | \$ 1,000.00 | \$ - | 41 | 4110 |
| 5 | 5 | \$ 200.00 | \$ 1,000.00 | \$ - | 41 | 4110 |
| 5 | 4 | \$ 240.00 | \$ 960.00 | \$ 240.00 | 41 | 4110 |
| 10 | 0 | \$ - | \$ - | \$ - | 61 | 6115 |
| 10 | 0 | \$ - | \$ - | \$ - | 61 | 6115 |
| 5 | 5 | \$ 660.00 | \$ 3,300.00 | \$ - | 73 | 7310 |
| 5 | 4 | \$ 160.00 | \$ 640.00 | \$ 160.00 | 66 | 6636 |
| 5 | 5 | \$ 100.00 | \$ 500.00 | \$ - | 43 | 4320 |
| 5 | 5 | \$ 200.00 | \$ 1,000.00 | \$ - | 41 | 4140 |
| 5 | 5 | \$ 100.00 | \$ 500.00 | \$ - | 45 | 4510 |
| 7 | 4 | \$ 48.57 | \$ 194.29 | \$ 145.71 | 58 | 5895 |
| 7 | 4 | \$ 48.57 | \$ 194.29 | \$ 145.71 | 58 | 5895 |
| 7 | 4 | \$ 48.57 | \$ 194.29 | \$ 145.71 | 58 | 5895 |
| 7 | 4 | \$ 48.57 | \$ 194.29 | \$ 145.71 | 58 | 5895 |
| 7 | 4 | \$ 48.57 | \$ 194.29 | \$ 145.71 | 58 | 5895 |
| 7 | 4 | \$ 48.57 | \$ 194.29 | \$ 145.71 | 58 | 5895 |
| 7 | 4 | \$ 48.57 | \$ 194.29 | \$ 145.71 | 58 | 5895 |
| 7 | 4 | \$ 48.57 | \$ 194.29 | \$ 145.71 | 58 | 5895 |
| 7 | 4 | \$ 48.57 | \$ 194.29 | \$ 145.71 | 58 | 5895 |
| 7 | 4 | \$ 48.57 | \$ 194.29 | \$ 145.71 | 58 | 5895 |
| 7 | 4 | \$ 48.57 | \$ 194.29 | \$ 145.71 | 58 | 5895 |
| 7 | 4 | \$ 48.57 | \$ 194.29 | \$ 145.71 | 58 | 5895 |
| 7 | 4 | \$ 48.57 | \$ 194.29 | \$ 145.71 | 58 | 5895 |
| 7 | 4 | \$ 48.57 | \$ 194.29 | \$ 145.71 | 58 | 5895 |
| 7 | 4 | \$ 48.57 | \$ 194.29 | \$ 145.71 | 58 | 5895 |
| 7 | 5 | \$ 357.14 | \$ 1,785.71 | \$ 714.29 | 58 | 5895 |
| 5 | 4 | \$ 80.00 | \$ 320.00 | \$ 80.00 | 74 | 7435 |
| 5 | 0 | \$ - | \$ - | \$ - | 74 | 7490 |
| 7 | 5 | \$ 1,394.86 | \$ 6,974.29 | \$ 2,789.71 | 58 | 5805 |
| 7 | 5 | \$ 14.29 | \$ 71.43 | \$ 28.57 | 61 | 6150 |
| 7 | 5 | \$ 3,571.43 | \$ 17,857.14 | \$ 7,142.86 | 39 | 3920 |
| 7 | 5 | \$ 314.29 | \$ 1,571.43 | \$ 628.57 | 99 | 9999 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5805 |
| 5 | 5 | \$ 500.00 | \$ 2,500.00 | \$ - | 70 | 7025 |
| 7 | 5 | \$ 142.86 | \$ 714.29 | \$ 285.71 | 59 | 5985 |
| 7 | 5 | \$ 171.43 | \$ 857.14 | \$ 342.86 | 66 | 6605 |

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|----|----|--------------|---------------|---------------|----|------|
| 5 | 4 | \$ 400.00 | \$ 1,600.00 | \$ 400.00 | 70 | 7025 |
| 7 | 5 | \$ 361.71 | \$ 1,808.57 | \$ 723.43 | 39 | 3920 |
| 5 | 5 | \$ 1,158.40 | \$ 5,792.00 | \$ - | 23 | 2350 |
| 5 | 5 | \$ 50.00 | \$ 250.00 | \$ - | 51 | 5130 |
| 5 | 5 | \$ 50.00 | \$ 250.00 | \$ - | 51 | 5130 |
| 5 | 5 | \$ 1,440.00 | \$ 7,200.00 | \$ - | 23 | 2350 |
| 5 | 5 | \$ 3,600.00 | \$ 18,000.00 | \$ - | 23 | 2320 |
| 5 | 5 | \$ 100.00 | \$ 500.00 | \$ - | 38 | 3895 |
| 10 | 9 | \$ 2,045.50 | \$ 18,409.50 | \$ 2,045.50 | 38 | 3805 |
| 5 | 5 | \$ 4,090.80 | \$ 20,454.00 | \$ - | 23 | 2320 |
| 7 | 5 | \$ 85.71 | \$ 428.57 | \$ 171.43 | 58 | 5895 |
| 7 | 5 | \$ 85.71 | \$ 428.57 | \$ 171.43 | 58 | 5895 |
| 7 | 5 | \$ 31.71 | \$ 158.57 | \$ 63.43 | 58 | 5895 |
| 7 | 5 | \$ 31.71 | \$ 158.57 | \$ 63.43 | 58 | 5895 |
| 7 | 5 | \$ 31.71 | \$ 158.57 | \$ 63.43 | 58 | 5895 |
| 7 | 5 | \$ 31.71 | \$ 158.57 | \$ 63.43 | 58 | 5895 |
| 7 | 5 | \$ 14.29 | \$ 71.43 | \$ 28.57 | 61 | 6150 |
| 7 | 5 | \$ 14.29 | \$ 71.43 | \$ 28.57 | 61 | 6150 |
| 5 | 5 | \$ 500.00 | \$ 2,500.00 | \$ - | 70 | 7025 |
| 7 | 5 | \$ 656.43 | \$ 3,282.14 | \$ 1,312.86 | 58 | 5805 |
| 7 | 5 | \$ 285.71 | \$ 1,428.57 | \$ 571.43 | 59 | 5985 |
| 5 | 5 | \$ 564.00 | \$ 2,820.00 | \$ - | 73 | 7310 |
| 5 | 5 | \$ 240.00 | \$ 1,200.00 | \$ - | 73 | 7310 |
| 5 | 5 | \$ 400.00 | \$ 2,000.00 | \$ - | 73 | 7320 |
| 10 | 5 | \$ 19,521.00 | \$ 97,605.00 | \$ 97,605.00 | 38 | 3805 |
| 5 | 5 | \$ 1,158.40 | \$ 5,792.00 | \$ - | 23 | 2350 |
| 5 | 5 | \$ 1,440.00 | \$ 7,200.00 | \$ - | 23 | 2350 |
| 5 | 0 | \$ - | \$ - | \$ - | 23 | 2350 |
| 5 | 5 | \$ 1,400.00 | \$ 7,000.00 | \$ - | 23 | 2350 |
| 5 | 5 | \$ 2,206.00 | \$ 11,030.00 | \$ - | 23 | 2350 |
| 7 | 6 | \$ 85.71 | \$ 514.29 | \$ 85.71 | 58 | 5895 |
| 7 | 7 | \$ 621.43 | \$ 4,350.00 | \$ - | 58 | 5895 |
| 7 | 5 | \$ 285.71 | \$ 1,428.57 | \$ 571.43 | 59 | 5985 |
| 7 | 5 | \$ 407.14 | \$ 2,035.71 | \$ 814.29 | 61 | 6150 |
| 7 | 5 | \$ 3,428.57 | \$ 17,142.86 | \$ 6,857.14 | 38 | 3895 |
| 10 | 6 | \$ 120.00 | \$ 720.00 | \$ 480.00 | 61 | 6115 |
| 10 | 0 | \$ - | \$ - | \$ - | 61 | 6115 |
| 10 | 6 | \$ 10,729.50 | \$ 64,377.00 | \$ 42,918.00 | 61 | 6115 |
| 5 | 7 | \$ 1,240.00 | \$ 8,680.00 | \$ (2,480.00) | 23 | 2350 |
| 10 | 5 | \$ 80.00 | \$ 400.00 | \$ 400.00 | 61 | 6115 |
| 7 | 5 | \$ 991.71 | \$ 4,958.57 | \$ 1,983.43 | 23 | 2350 |
| 5 | 7 | \$ 604.80 | \$ 4,233.60 | \$ (1,209.60) | 84 | 8465 |
| 5 | 5 | \$ 1,040.00 | \$ 5,200.00 | \$ - | 44 | 4430 |
| 7 | 5 | \$ 1,163.57 | \$ 5,817.86 | \$ 2,327.14 | 45 | 4520 |
| 7 | 5 | \$ 820.14 | \$ 4,100.71 | \$ 1,640.29 | 45 | 4520 |
| 10 | 10 | \$ 10,000.00 | \$ 100,000.00 | \$ - | 61 | 6115 |
| 10 | 0 | \$ - | \$ - | \$ - | 38 | 3805 |

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|----|----|-------------|--------------|-------------|----|------|
| 7 | 5 | \$ 1,099.29 | \$ 5,496.43 | \$ 2,198.57 | 25 | 2590 |
| 10 | 5 | \$ 400.00 | \$ 2,000.00 | \$ 2,000.00 | 39 | 3990 |
| 10 | 5 | \$ 200.00 | \$ 1,000.00 | \$ 1,000.00 | 39 | 3990 |
| 5 | 5 | \$ 1,400.00 | \$ 7,000.00 | \$ - | 23 | 2350 |
| 7 | 5 | \$ 500.00 | \$ 2,500.00 | \$ 1,000.00 | 45 | 4520 |
| 5 | 5 | \$ 1,158.40 | \$ 5,792.00 | \$ - | 23 | 2350 |
| 10 | 0 | \$ - | \$ - | \$ - | | |
| 7 | 5 | \$ 420.43 | \$ 2,102.14 | \$ 840.86 | 45 | 4520 |
| 7 | 5 | \$ 328.57 | \$ 1,642.86 | \$ 657.14 | 39 | 3990 |
| 7 | 5 | \$ 350.00 | \$ 1,750.00 | \$ 700.00 | 39 | 3990 |
| 7 | 5 | \$ 328.57 | \$ 1,642.86 | \$ 657.14 | 39 | 3990 |
| 7 | 5 | \$ 350.00 | \$ 1,750.00 | \$ 700.00 | 39 | 3990 |
| 7 | 5 | \$ 328.57 | \$ 1,642.86 | \$ 657.14 | 39 | 3990 |
| 7 | 5 | \$ 328.57 | \$ 1,642.86 | \$ 657.14 | 39 | 3990 |
| 7 | 5 | \$ 328.57 | \$ 1,642.86 | \$ 657.14 | 39 | 3990 |
| 10 | 5 | \$ 308.00 | \$ 1,540.00 | \$ 1,540.00 | 61 | 6115 |
| 7 | 5 | \$ 361.71 | \$ 1,808.57 | \$ 723.43 | 39 | 3990 |
| 7 | 5 | \$ 361.71 | \$ 1,808.57 | \$ 723.43 | 39 | 3990 |
| 7 | 5 | \$ 656.43 | \$ 3,282.14 | \$ 1,312.86 | 58 | 5805 |
| 5 | 5 | \$ 500.00 | \$ 2,500.00 | \$ - | 70 | 7025 |
| 7 | 0 | \$ - | \$ - | \$ - | 61 | 6150 |
| 5 | 4 | \$ 993.60 | \$ 3,974.40 | \$ 993.60 | 81 | 8145 |
| 5 | 4 | \$ 993.60 | \$ 3,974.40 | \$ 993.60 | 81 | 8145 |
| 5 | 5 | \$ 500.00 | \$ 2,500.00 | \$ - | 70 | 7025 |
| 7 | 5 | \$ 21.43 | \$ 107.14 | \$ 42.86 | 61 | 6150 |
| 7 | 6 | \$ 996.43 | \$ 5,978.57 | \$ 996.43 | 58 | 5805 |
| 7 | 5 | \$ 285.71 | \$ 1,428.57 | \$ 571.43 | 59 | 5985 |
| 10 | 10 | \$ 6,135.30 | \$ 61,353.00 | \$ - | 24 | 2430 |
| 5 | 5 | \$ 2,206.00 | \$ 11,030.00 | \$ - | 23 | 2350 |
| 10 | 4 | \$ 144.50 | \$ 578.00 | \$ 867.00 | 61 | 6115 |
| 7 | 5 | \$ 357.14 | \$ 1,785.71 | \$ 714.29 | 25 | 2590 |
| 7 | 5 | \$ 500.00 | \$ 2,500.00 | \$ 1,000.00 | 45 | 4520 |
| 10 | 3 | \$ 144.50 | \$ 433.50 | \$ 1,011.50 | 61 | 6115 |
| 7 | 5 | \$ 285.71 | \$ 1,428.57 | \$ 571.43 | 59 | 5985 |
| 7 | 0 | \$ - | \$ - | \$ - | 58 | 5895 |
| 0 | 0 | \$ - | \$ - | \$ - | | |
| 7 | 7 | \$ 14.29 | \$ 100.00 | \$ - | 61 | 6115 |
| 7 | 6 | \$ 1,428.43 | \$ 8,570.57 | \$ 1,428.43 | 58 | 5805 |
| 10 | 5 | \$ 102.90 | \$ 514.50 | \$ 514.50 | 61 | 6115 |
| 10 | 0 | \$ - | \$ - | \$ - | 38 | 3805 |
| 5 | 4 | \$ 940.00 | \$ 3,760.00 | \$ 940.00 | 99 | 9999 |
| 5 | 4 | \$ 200.00 | \$ 800.00 | \$ 200.00 | 61 | 6115 |
| 5 | 4 | \$ 209.80 | \$ 839.20 | \$ 209.80 | 61 | 6116 |
| 7 | 0 | \$ - | \$ - | \$ - | 61 | 6116 |
| 5 | 4 | \$ 291.40 | \$ 1,165.60 | \$ 291.40 | 70 | 7025 |
| 5 | 3 | \$ 189.80 | \$ 569.40 | \$ 379.60 | 67 | 6720 |
| 7 | 5 | \$ 432.00 | \$ 2,160.00 | \$ 864.00 | 49 | 4940 |
| 5 | 5 | \$ 400.00 | \$ 2,000.00 | \$ - | 51 | 5133 |
| 10 | 5 | \$ 1,268.60 | \$ 6,343.00 | \$ 6,343.00 | 81 | 8145 |
| 7 | 5 | \$ 500.00 | \$ 2,500.00 | \$ 1,000.00 | 39 | 3920 |
| 5 | 5 | \$ 80.00 | \$ 400.00 | \$ - | 74 | 7435 |
| 5 | 4 | \$ 24.00 | \$ 95.98 | \$ 24.00 | 74 | 7435 |

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|------|----|--------------|---------------|---------------|----|------|
| 5 | 4 | \$ 24.00 | \$ 95.98 | \$ 24.00 | 74 | 7435 |
| 5 | 4 | \$ 24.00 | \$ 95.98 | \$ 24.00 | 74 | 7435 |
| 5 | 4 | \$ 24.00 | \$ 95.98 | \$ 24.00 | 74 | 7435 |
| 7 | | \$ - | \$ - | \$ - | 58 | 5895 |
| 7 | 7 | \$ 4,082.14 | \$ 28,575.00 | \$ - | 58 | 5895 |
| 7 | 6 | \$ 342.86 | \$ 2,057.14 | \$ 342.86 | 58 | 5895 |
| 7 | 5 | \$ 428.57 | \$ 2,142.86 | \$ 857.14 | 34 | 3433 |
| 7 | 5 | \$ 328.57 | \$ 1,642.86 | \$ 657.14 | 39 | 3990 |
| | | \$ - | \$ - | \$ - | 23 | 2350 |
| 5 | 5 | \$ 1,400.00 | \$ 7,000.00 | \$ - | 23 | 2350 |
| 10 | 2 | \$ 274.00 | \$ 548.00 | \$ 2,192.00 | 54 | 5410 |
| 5 | 5 | \$ 120.00 | \$ 599.99 | \$ - | 51 | 5130 |
| 5 | 4 | \$ 1,241.00 | \$ 4,964.00 | \$ 1,241.00 | 23 | 2350 |
| 5 | 4 | \$ 1,241.00 | \$ 4,964.00 | \$ 1,241.00 | 23 | 2350 |
| 5 | 4 | \$ 2,635.40 | \$ 10,541.60 | \$ 2,635.40 | 81 | 8145 |
| 5 | 4 | \$ 2,635.40 | \$ 10,541.60 | \$ 2,635.40 | 81 | 8145 |
| 5 | 5 | \$ 283.60 | \$ 1,418.00 | \$ - | 81 | 8145 |
| 5 | 4 | \$ 119.00 | \$ 476.00 | \$ 119.00 | 66 | 6685 |
| 10 | 5 | \$ 408.40 | \$ 2,042.00 | \$ 2,042.00 | 54 | 5410 |
| 10 | 5 | \$ 240.00 | \$ 1,200.00 | \$ 1,200.00 | 81 | 8145 |
| 5 | 4 | \$ 315.80 | \$ 1,263.20 | \$ 315.80 | 45 | 4540 |
| 10 | 5 | \$ 400.00 | \$ 2,000.00 | \$ 2,000.00 | 54 | 5410 |
| 31.5 | 17 | \$ 7,354.67 | \$ 125,029.33 | \$ 106,642.67 | 54 | 5410 |
| 31.5 | 5 | \$ 7,354.67 | \$ 36,773.33 | \$ 194,898.67 | 54 | 5410 |
| 5 | 4 | \$ 301.60 | \$ 1,206.40 | \$ 301.60 | 70 | 7025 |
| 5 | 3 | \$ 12,070.00 | \$ 36,210.00 | \$ 24,140.00 | 59 | 5985 |
| 5 | 4 | \$ 102.30 | \$ 409.20 | \$ 102.30 | 51 | 5130 |
| 10 | 5 | \$ 350.00 | \$ 1,750.00 | \$ 1,750.00 | 54 | 5410 |
| 7 | 4 | \$ 38.57 | \$ 154.29 | \$ 115.71 | 58 | 5895 |
| 5 | 4 | \$ 79.99 | \$ 319.96 | \$ 79.99 | 74 | 7435 |
| 5 | 4 | \$ 142.20 | \$ 568.80 | \$ 142.20 | 43 | 4320 |
| 7 | 4 | \$ 165.71 | \$ 662.86 | \$ 497.14 | 58 | 5895 |
| 7 | 4 | \$ 253.57 | \$ 1,014.29 | \$ 760.71 | 58 | 5895 |
| 7 | 4 | \$ 82.86 | \$ 331.43 | \$ 248.57 | 58 | 5895 |
| 7 | 4 | \$ 74.29 | \$ 297.14 | \$ 222.86 | 58 | 5895 |
| 7 | 4 | \$ 596.43 | \$ 2,385.71 | \$ 1,789.29 | 70 | 7025 |
| 5 | 4 | \$ 123.99 | \$ 495.96 | \$ 123.99 | 61 | 6120 |
| 5 | 4 | \$ 49.52 | \$ 198.08 | \$ 49.52 | 61 | 6120 |
| 5 | 4 | \$ 291.20 | \$ 1,164.80 | \$ 291.20 | 61 | 6120 |
| 5 | 4 | \$ 119.00 | \$ 476.00 | \$ 119.00 | 66 | 6685 |
| 10 | 5 | \$ 572.90 | \$ 2,864.50 | \$ 2,864.50 | 54 | 5410 |
| 10 | 5 | \$ 966.70 | \$ 4,833.50 | \$ 4,833.50 | 54 | 5410 |
| 10 | 5 | \$ 300.00 | \$ 1,500.00 | \$ 1,500.00 | 54 | 5410 |
| 10 | 5 | \$ 335.10 | \$ 1,675.50 | \$ 1,675.50 | 54 | 5410 |
| 10 | 5 | \$ 408.40 | \$ 2,042.00 | \$ 2,042.00 | 54 | 5410 |

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|----|---|-------------|--------------|-------------|----|------|
| 10 | 5 | \$ 408.40 | \$ 2,042.00 | \$ 2,042.00 | 54 | 5410 |
| 7 | 5 | \$ 250.00 | \$ 1,250.00 | \$ 500.00 | 66 | 6605 |
| 7 | 5 | \$ 470.71 | \$ 2,353.57 | \$ 941.43 | 66 | 6605 |
| 10 | 5 | \$ 587.50 | \$ 2,937.50 | \$ 2,937.50 | 61 | 6115 |
| 7 | 0 | \$ - | \$ - | \$ - | 66 | 6660 |
| 5 | 4 | \$ 106.00 | \$ 423.99 | \$ 106.00 | 41 | 4110 |
| 5 | 4 | \$ 106.00 | \$ 423.99 | \$ 106.00 | 41 | 4110 |
| 5 | 4 | \$ 106.00 | \$ 423.99 | \$ 106.00 | 41 | 4110 |
| 5 | 4 | \$ 106.00 | \$ 423.99 | \$ 106.00 | 41 | 4110 |
| 10 | 5 | \$ 1,575.00 | \$ 7,875.00 | \$ 7,875.00 | 61 | 6117 |
| 5 | 5 | \$ 4,239.40 | \$ 21,197.00 | \$ - | 66 | 6640 |
| 5 | 5 | \$ 105.99 | \$ 529.96 | \$ - | 41 | 4110 |
| 5 | 5 | \$ 105.99 | \$ 529.96 | \$ - | 41 | 4110 |
| 5 | 5 | \$ 105.99 | \$ 529.96 | \$ - | 41 | 4110 |
| 5 | 5 | \$ 105.99 | \$ 529.96 | \$ - | 41 | 4110 |
| 10 | 5 | \$ 230.00 | \$ 1,150.00 | \$ 1,150.00 | 61 | 6115 |
| 10 | 5 | \$ 668.90 | \$ 3,344.50 | \$ 3,344.50 | 54 | 5410 |
| 10 | 5 | \$ 668.90 | \$ 3,344.50 | \$ 3,344.50 | 54 | 5410 |
| 10 | 5 | \$ 335.10 | \$ 1,675.50 | \$ 1,675.50 | 54 | 5410 |
| 10 | 5 | \$ 335.10 | \$ 1,675.50 | \$ 1,675.50 | 54 | 5410 |
| 10 | 5 | \$ 453.40 | \$ 2,267.00 | \$ 2,267.00 | 54 | 5410 |
| 5 | 4 | \$ 153.80 | \$ 615.20 | \$ 153.80 | 67 | 6720 |
| 5 | 4 | \$ 440.00 | \$ 1,760.00 | \$ 440.00 | 70 | 7025 |
| 7 | 4 | \$ 57.14 | \$ 228.57 | \$ 171.43 | 39 | 3990 |
| 7 | 4 | \$ 63.29 | \$ 253.14 | \$ 189.86 | 58 | 5895 |
| 7 | 4 | \$ 63.29 | \$ 253.14 | \$ 189.86 | 58 | 5895 |
| 7 | 4 | \$ 63.29 | \$ 253.14 | \$ 189.86 | 58 | 5895 |
| 7 | 6 | \$ 471.00 | \$ 2,826.00 | \$ 471.00 | 58 | 5805 |
| 7 | 6 | \$ 428.57 | \$ 2,571.43 | \$ 428.57 | 58 | 5805 |
| 10 | 5 | \$ 502.00 | \$ 2,510.00 | \$ 2,510.00 | 54 | 5410 |
| 10 | 5 | \$ 502.00 | \$ 2,510.00 | \$ 2,510.00 | 54 | 5410 |
| 10 | 5 | \$ 502.00 | \$ 2,510.00 | \$ 2,510.00 | 54 | 5410 |
| 10 | 5 | \$ 502.00 | \$ 2,510.00 | \$ 2,510.00 | 54 | 5410 |
| 10 | 5 | \$ 502.00 | \$ 2,510.00 | \$ 2,510.00 | 54 | 5410 |
| 10 | 5 | \$ 668.90 | \$ 3,344.50 | \$ 3,344.50 | 54 | 5410 |
| 10 | 5 | \$ 966.70 | \$ 4,833.50 | \$ 4,833.50 | 54 | 5410 |
| 10 | 5 | \$ 300.00 | \$ 1,500.00 | \$ 1,500.00 | 54 | 5410 |
| 10 | 5 | \$ 335.10 | \$ 1,675.50 | \$ 1,675.50 | 54 | 5410 |
| 10 | 5 | \$ 408.40 | \$ 2,042.00 | \$ 2,042.00 | 54 | 5410 |
| 10 | 5 | \$ 408.40 | \$ 2,042.00 | \$ 2,042.00 | 54 | 5410 |
| 10 | 5 | \$ 408.40 | \$ 2,042.00 | \$ 2,042.00 | 54 | 5410 |

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|----|---|--------------|--------------|---------------|----|------|
| 7 | 3 | \$ 48.57 | \$ 145.71 | \$ 194.29 | 58 | 5895 |
| 7 | 3 | \$ 48.57 | \$ 145.71 | \$ 194.29 | 58 | 5895 |
| 7 | 3 | \$ 86.29 | \$ 258.86 | \$ 345.14 | 58 | 5895 |
| 7 | 3 | \$ 86.29 | \$ 258.86 | \$ 345.14 | 58 | 5895 |
| 7 | 2 | \$ 13.43 | \$ 26.86 | \$ 67.14 | 61 | 6150 |
| 7 | 2 | \$ 13.43 | \$ 26.86 | \$ 67.14 | 61 | 6150 |
| 7 | 3 | \$ 135.71 | \$ 407.14 | \$ 542.86 | 58 | 5805 |
| 7 | 3 | \$ 135.71 | \$ 407.14 | \$ 542.86 | 58 | 5805 |
| 7 | 3 | \$ 135.71 | \$ 407.14 | \$ 542.86 | 58 | 5805 |
| 10 | 5 | \$ 2,220.00 | \$ 11,100.00 | \$ 11,100.00 | 39 | 3930 |
| 10 | 8 | \$ 2,557.80 | \$ 20,462.40 | \$ 5,115.60 | 61 | 6115 |
| 10 | 8 | \$ 2,933.70 | \$ 23,469.60 | \$ 5,867.40 | 61 | 6115 |
| 10 | 5 | \$ 12,822.20 | \$ 64,111.00 | \$ 64,111.00 | 39 | 3930 |
| 10 | 4 | \$ 5,000.00 | \$ 20,000.00 | \$ 30,000.00 | 61 | 6115 |
| 39 | 5 | \$ 4,329.28 | \$ 21,646.41 | \$ 147,195.59 | 54 | 5410 |
| 39 | 5 | \$ 4,329.28 | \$ 21,646.41 | \$ 147,195.59 | 54 | 5410 |
| 39 | 5 | \$ 4,329.28 | \$ 21,646.41 | \$ 147,195.59 | 54 | 5410 |
| 39 | 5 | \$ 4,329.28 | \$ 21,646.41 | \$ 147,195.59 | 54 | 5410 |
| 7 | 4 | \$ 57.14 | \$ 228.57 | \$ 171.43 | 10 | 1005 |
| 10 | 5 | \$ 453.40 | \$ 2,267.00 | \$ 2,267.00 | 54 | 5450 |
| 5 | 5 | \$ 476.00 | \$ 2,380.00 | \$ - | 44 | 4420 |
| 10 | 5 | \$ 450.00 | \$ 2,250.00 | \$ 2,250.00 | 23 | 2330 |
| 10 | 5 | \$ 450.00 | \$ 2,250.00 | \$ 2,250.00 | 23 | 2330 |
| 10 | 5 | \$ 535.00 | \$ 2,675.00 | \$ 2,675.00 | 44 | 4420 |
| 10 | 5 | \$ 535.00 | \$ 2,675.00 | \$ 2,675.00 | 44 | 4420 |
| 10 | 5 | \$ 365.00 | \$ 1,825.00 | \$ 1,825.00 | 54 | 5450 |
| 5 | 5 | \$ 80.00 | \$ 400.00 | \$ - | 77 | 7730 |
| 10 | 5 | \$ 227.50 | \$ 1,137.50 | \$ 1,137.50 | 61 | 6115 |
| 5 | 5 | \$ 827.80 | \$ 4,139.00 | \$ - | 23 | 2340 |
| 5 | 5 | \$ 827.80 | \$ 4,139.00 | \$ - | 23 | 2340 |
| | 0 | \$ - | \$ - | \$ - | 81 | 8145 |
| 5 | 5 | \$ 1,399.80 | \$ 6,999.00 | \$ - | 23 | 2350 |
| 5 | 5 | \$ 1,399.80 | \$ 6,999.00 | \$ - | 23 | 2350 |
| 5 | 5 | \$ 920.00 | \$ 4,600.00 | \$ - | 23 | 2340 |
| 10 | 4 | \$ 75.00 | \$ 300.00 | \$ 450.00 | 23 | 2340 |
| 7 | | \$ - | \$ - | \$ - | 58 | 5800 |
| 7 | | \$ - | \$ - | \$ - | 58 | 5805 |
| 5 | 4 | \$ 1,079.80 | \$ 4,319.20 | \$ 1,079.80 | 23 | 2340 |
| 5 | 4 | \$ 1,079.80 | \$ 4,319.20 | \$ 1,079.80 | 23 | 2340 |
| 10 | 4 | \$ 450.00 | \$ 1,800.00 | \$ 2,700.00 | 61 | 6115 |
| 10 | | \$ - | \$ - | \$ - | 61 | 6115 |

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|----|---|-------------|-------------|-------------|----|------|
| 10 | 5 | \$ 200.00 | \$ 1,000.00 | \$ 1,000.00 | 23 | 2330 |
| 5 | 4 | \$ 479.00 | \$ 1,916.00 | \$ 479.00 | 20 | 2010 |
| 7 | 5 | \$ 257.14 | \$ 1,285.71 | \$ 514.29 | 59 | 5985 |
| 7 | 4 | \$ 169.42 | \$ 677.69 | \$ 508.26 | 58 | 5895 |
| 5 | 3 | \$ 79.80 | \$ 239.40 | \$ 159.60 | 67 | 6720 |
| 5 | 2 | \$ 99.99 | \$ 199.98 | \$ 299.97 | 67 | 6720 |
| 5 | 3 | \$ 79.80 | \$ 239.40 | \$ 159.60 | 67 | 6720 |
| 5 | 2 | \$ 80.00 | \$ 160.00 | \$ 240.00 | 73 | 7310 |
| 5 | 5 | \$ 120.00 | \$ 600.00 | \$ - | 41 | 7320 |
| 10 | 4 | \$ 1,575.00 | \$ 6,300.00 | \$ 9,450.00 | 61 | 6117 |
| 10 | 5 | \$ 220.00 | \$ 1,100.00 | \$ 1,100.00 | 61 | 6115 |
| 10 | 5 | \$ 250.00 | \$ 1,250.00 | \$ 1,250.00 | 61 | 6115 |
| 5 | 4 | \$ 315.80 | \$ 1,263.20 | \$ 315.80 | 45 | 4540 |
| 10 | 2 | \$ 75.00 | \$ 150.00 | \$ 600.00 | 23 | 2330 |
| 10 | 5 | \$ 450.00 | \$ 2,250.00 | \$ 2,250.00 | 61 | 6115 |
| 10 | 4 | \$ 450.00 | \$ 1,800.00 | \$ 2,700.00 | 61 | 6115 |
| 5 | 2 | \$ 1,047.23 | \$ 2,094.46 | \$ 3,141.70 | 66 | 6636 |
| 7 | 3 | \$ 47.14 | \$ 141.43 | \$ 188.57 | 58 | 5895 |
| 7 | 3 | \$ 47.14 | \$ 141.43 | \$ 188.57 | 58 | 5895 |
| 7 | 3 | \$ 47.14 | \$ 141.43 | \$ 188.57 | 58 | 5895 |
| 7 | 3 | \$ 70.71 | \$ 212.14 | \$ 282.86 | 58 | 5895 |
| 7 | 3 | \$ 70.71 | \$ 212.14 | \$ 282.86 | 58 | 5895 |
| 7 | 3 | \$ 47.14 | \$ 141.43 | \$ 188.57 | 58 | 5895 |
| 7 | 3 | \$ 47.14 | \$ 141.43 | \$ 188.57 | 58 | 5895 |
| 7 | 2 | \$ 47.14 | \$ 94.29 | \$ 235.71 | 58 | 5895 |
| 7 | 2 | \$ 92.86 | \$ 185.71 | \$ 464.29 | 61 | 6150 |
| 10 | 2 | \$ 1,005.00 | \$ 2,010.00 | \$ 8,040.00 | 39 | 3930 |
| 5 | 5 | \$ 1,446.80 | \$ 7,234.00 | \$ - | 23 | 2350 |
| 10 | 2 | \$ 103.90 | \$ 207.80 | \$ 831.20 | 61 | 6115 |
| 10 | 2 | \$ 190.00 | \$ 380.00 | \$ 1,519.99 | 61 | 6115 |
| 10 | 2 | \$ 65.90 | \$ 131.80 | \$ 527.20 | 61 | 6115 |
| 10 | 2 | \$ 175.00 | \$ 350.00 | \$ 1,400.00 | 81 | 8145 |
| 10 | 2 | \$ 100.00 | \$ 200.00 | \$ 800.00 | 81 | 8145 |
| 10 | 2 | \$ 100.00 | \$ 200.00 | \$ 800.00 | 81 | 8145 |
| 10 | 2 | \$ 65.00 | \$ 130.00 | \$ 520.00 | 61 | 6115 |
| 10 | 2 | \$ 189.90 | \$ 379.80 | \$ 1,519.20 | 61 | 6115 |
| 10 | 3 | \$ 103.90 | \$ 311.70 | \$ 727.30 | 61 | 6115 |

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|------|---|--------------|--------------|---------------|----|------|
| 10 | 2 | \$ 250.00 | \$ 500.00 | \$ 2,000.00 | 61 | 6115 |
| 31.5 | 2 | \$ 2,857.14 | \$ 5,714.29 | \$ 84,285.71 | 54 | 5411 |
| 10 | 2 | \$ 1,248.50 | \$ 2,497.00 | \$ 9,988.00 | 23 | 2330 |
| 10 | 2 | \$ 1,248.50 | \$ 2,497.00 | \$ 9,988.00 | 23 | 2330 |
| 0 | 0 | \$ - | \$ - | \$ - | 70 | 7025 |
| 5 | 1 | \$ 613.20 | \$ 613.20 | \$ 2,452.80 | 70 | 7025 |
| 7 | 3 | \$ 284.29 | \$ 852.86 | \$ 1,137.14 | 58 | 5805 |
| 7 | 3 | \$ 284.29 | \$ 852.86 | \$ 1,137.14 | 58 | 5805 |
| 7 | 3 | \$ 284.29 | \$ 852.86 | \$ 1,137.14 | 58 | 5805 |
| 7 | 3 | \$ 284.29 | \$ 852.86 | \$ 1,137.14 | 58 | 5805 |
| 7 | 3 | \$ 284.29 | \$ 852.86 | \$ 1,137.14 | 58 | 5805 |
| 7 | 3 | \$ 284.29 | \$ 852.86 | \$ 1,137.14 | 58 | 5805 |
| 7 | 3 | \$ 284.29 | \$ 852.86 | \$ 1,137.14 | 58 | 5805 |
| 7 | 3 | \$ 284.29 | \$ 852.86 | \$ 1,137.14 | 58 | 5805 |
| 7 | 3 | \$ 284.29 | \$ 852.86 | \$ 1,137.14 | 58 | 5805 |
| 7 | 3 | \$ 284.29 | \$ 852.86 | \$ 1,137.14 | 58 | 5805 |
| 7 | 3 | \$ 284.29 | \$ 852.86 | \$ 1,137.14 | 58 | 5805 |
| 5 | 2 | \$ 189.80 | \$ 379.60 | \$ 569.40 | 67 | 6720 |
| 7 | 2 | \$ 999.86 | \$ 1,999.71 | \$ 4,999.29 | 45 | 4520 |
| 5 | 1 | \$ 613.20 | \$ 613.20 | \$ 2,452.80 | 70 | 7025 |
| 5 | 1 | \$ 613.20 | \$ 613.20 | \$ 2,452.80 | 70 | 7025 |
| 5 | 1 | \$ 613.20 | \$ 613.20 | \$ 2,452.80 | 70 | 7025 |
| 10 | 0 | \$ 199.90 | \$ - | \$ 1,999.00 | 61 | 6115 |
| 7 | 0 | \$ 42.86 | \$ - | \$ 300.00 | 66 | 6605 |
| 7 | 0 | \$ 42.86 | \$ - | \$ 300.00 | 66 | 6605 |
| 10 | 1 | \$ 13,890.60 | \$ 13,890.60 | \$ 125,015.40 | 24 | 2430 |
| | 0 | \$ - | \$ - | \$ 2,500.00 | 54 | 5410 |
| 10 | 1 | \$ 450.00 | \$ 450.00 | \$ 4,050.00 | 54 | 5410 |
| 7 | 1 | \$ 22.86 | \$ 22.86 | \$ 137.14 | 66 | 6605 |
| 7 | 1 | \$ 22.86 | \$ 22.86 | \$ 137.14 | 66 | 6605 |
| 7 | 1 | \$ 22.86 | \$ 22.86 | \$ 137.14 | 66 | 6605 |
| 10 | 1 | \$ 57.90 | \$ 57.90 | \$ 521.10 | 39 | 3930 |
| 7 | 1 | \$ 1,535.00 | \$ 1,535.00 | \$ 9,210.00 | 25 | 2590 |
| 10 | 3 | \$ 12,436.90 | \$ 37,310.70 | \$ 87,058.30 | 38 | 3805 |
| 10 | 3 | \$ 170.00 | \$ 510.00 | \$ 1,190.00 | 81 | 8145 |
| 10 | 3 | \$ 170.00 | \$ 510.00 | \$ 1,190.00 | 81 | 8145 |
| 10 | 3 | \$ 200.00 | \$ 600.00 | \$ 1,400.00 | 81 | 8145 |
| 5 | 3 | \$ 1,530.00 | \$ 4,590.00 | \$ 3,060.00 | 23 | 2350 |
| 5 | 3 | \$ 275.40 | \$ 826.20 | \$ 550.80 | 41 | 4110 |
| 7 | 3 | \$ 1,470.71 | \$ 4,412.14 | \$ 5,882.86 | 25 | 2590 |
| 7 | 3 | \$ 4,185.71 | \$ 12,557.14 | \$ 16,742.86 | 59 | 5985 |
| 7 | 3 | \$ 227.86 | \$ 683.57 | \$ 911.43 | 36 | 3625 |
| 5 | 3 | \$ 1,248.70 | \$ 3,746.10 | \$ 2,497.40 | 23 | 2350 |
| 5 | 3 | \$ 1,248.70 | \$ 3,746.10 | \$ 2,497.40 | 23 | 2350 |
| 5 | 3 | \$ 1,408.20 | \$ 4,224.60 | \$ 2,816.40 | 81 | 8145 |
| 5 | 3 | \$ 686.40 | \$ 2,059.20 | \$ 1,372.80 | 81 | 8145 |
| 5 | 3 | \$ 686.40 | \$ 2,059.20 | \$ 1,372.80 | 81 | 8145 |
| 5 | 3 | \$ 686.40 | \$ 2,059.20 | \$ 1,372.80 | 81 | 8145 |
| 39 | 3 | \$ 829.49 | \$ 2,488.46 | \$ 29,861.54 | 54 | 5411 |

| | | | | | | |
|----|---|-------------|--------------|---------------|----|------|
| 7 | 1 | \$ 213.57 | \$ 213.57 | \$ 1,281.43 | 58 | 5805 |
| 7 | 1 | \$ 71.29 | \$ 71.29 | \$ 427.71 | 61 | 6150 |
| 5 | 3 | \$ 1,667.80 | \$ 5,003.40 | \$ 3,335.60 | 19 | 1940 |
| 7 | 4 | \$ 494.14 | \$ 1,976.57 | \$ 1,482.43 | 39 | 3990 |
| 39 | 3 | \$ 3,162.87 | \$ 9,488.62 | \$ 113,863.38 | 54 | 5410 |
| 5 | 5 | \$ 5,590.40 | \$ 27,952.00 | \$ - | 23 | 2310 |
| 10 | 3 | \$ 822.50 | \$ 2,467.50 | \$ 5,757.50 | 54 | 5410 |
| 5 | 3 | \$ 1,500.00 | \$ 4,500.00 | \$ 3,000.00 | 23 | 2350 |
| 5 | 2 | \$ 1,459.40 | \$ 2,918.80 | \$ 4,378.20 | 23 | 2350 |
| 5 | 2 | \$ 539.80 | \$ 1,079.60 | \$ 1,619.40 | 70 | 7025 |
| 5 | 2 | \$ 1,459.40 | \$ 2,918.80 | \$ 4,378.20 | 23 | 2350 |
| 5 | 2 | \$ 5,458.00 | \$ 10,916.00 | \$ 16,374.00 | 23 | 2320 |
| 5 | 2 | \$ 5,458.00 | \$ 10,916.00 | \$ 16,374.00 | 23 | 2320 |
| 5 | 2 | \$ 539.80 | \$ 1,079.60 | \$ 1,619.40 | 70 | 7025 |
| 5 | 2 | \$ 539.80 | \$ 1,079.60 | \$ 1,619.40 | 70 | 7025 |
| 10 | 2 | \$ 103.94 | \$ 207.88 | \$ 831.51 | 61 | 6115 |
| 10 | 2 | \$ 103.94 | \$ 207.88 | \$ 831.51 | 61 | 6115 |
| 10 | 2 | \$ 90.00 | \$ 180.00 | \$ 720.00 | 81 | 8145 |
| 10 | 2 | \$ 90.00 | \$ 180.00 | \$ 720.00 | 81 | 8145 |
| 7 | 2 | \$ 142.14 | \$ 284.29 | \$ 710.71 | 25 | 2590 |
| 7 | 2 | \$ 21.43 | \$ 42.86 | \$ 107.14 | 66 | 6605 |
| 5 | 2 | \$ 539.80 | \$ 1,079.60 | \$ 1,619.40 | 70 | 7025 |
| 7 | 2 | \$ 35.71 | \$ 71.43 | \$ 178.57 | 58 | 5895 |
| 5 | 2 | \$ 999.80 | \$ 1,999.60 | \$ 2,999.40 | 23 | 2350 |
| 5 | 2 | \$ 999.80 | \$ 1,999.60 | \$ 2,999.40 | 23 | 2350 |
| 10 | 2 | \$ 190.00 | \$ 380.00 | \$ 1,519.99 | 61 | 6115 |
| 10 | 2 | \$ 100.00 | \$ 200.00 | \$ 800.00 | 61 | 6115 |
| 10 | 2 | \$ 100.00 | \$ 200.00 | \$ 800.00 | 61 | 6115 |
| 10 | 2 | \$ 103.90 | \$ 207.80 | \$ 831.20 | 61 | 6115 |
| 10 | 2 | \$ 103.94 | \$ 207.88 | \$ 831.51 | 61 | 6115 |
| 5 | 2 | \$ 7,007.20 | \$ 14,014.40 | \$ 21,021.60 | 23 | 2320 |
| 5 | 2 | \$ 7,007.20 | \$ 14,014.40 | \$ 21,021.60 | 23 | 2320 |
| 10 | 2 | \$ 109.90 | \$ 219.80 | \$ 879.20 | 61 | 6115 |
| 10 | 2 | \$ 109.90 | \$ 219.80 | \$ 879.20 | 61 | 6115 |
| 10 | 2 | \$ 143.00 | \$ 285.99 | \$ 1,143.96 | 61 | 6115 |
| 10 | 2 | \$ 267.00 | \$ 533.99 | \$ 2,135.96 | 61 | 6115 |
| 5 | 2 | \$ 806.80 | \$ 1,613.60 | \$ 2,420.40 | 23 | 2350 |
| 5 | 2 | \$ 806.80 | \$ 1,613.60 | \$ 2,420.40 | 23 | 2350 |
| 5 | 2 | \$ 1,393.20 | \$ 2,786.40 | \$ 4,179.60 | 23 | 2350 |
| 10 | 2 | \$ 188.00 | \$ 376.00 | \$ 1,504.00 | 23 | 2330 |
| 10 | 4 | \$ 100.00 | \$ 400.00 | \$ 600.00 | 61 | 6115 |
| 5 | 2 | \$ 40.00 | \$ 80.00 | \$ 120.00 | 66 | 6625 |
| 5 | 2 | \$ 41.80 | \$ 83.60 | \$ 125.40 | 66 | 6625 |
| 7 | 1 | \$ 21.43 | \$ 21.43 | \$ 128.57 | 61 | 6150 |

| | | | | | | |
|----|---|--------------|--------------|---------------|----|------|
| 7 | 6 | \$ 14.29 | \$ 85.71 | \$ 14.29 | 58 | 5895 |
| 10 | 2 | \$ 100.00 | \$ 200.00 | \$ 800.00 | 81 | 8145 |
| 10 | 2 | \$ 5,000.00 | \$ 10,000.00 | \$ 40,000.00 | 61 | 6115 |
| 5 | 2 | \$ 40.00 | \$ 80.00 | \$ 120.00 | 66 | 6625 |
| 5 | 2 | \$ 40.00 | \$ 80.00 | \$ 120.00 | 66 | 6625 |
| 7 | 2 | \$ 21.43 | \$ 42.86 | \$ 107.14 | 66 | 6605 |
| 7 | 2 | \$ 42.86 | \$ 85.71 | \$ 214.29 | 66 | 6605 |
| 5 | 2 | \$ 1,395.52 | \$ 2,791.04 | \$ 4,186.56 | 19 | 1940 |
| 5 | 2 | \$ 1,513.80 | \$ 3,027.60 | \$ 4,541.40 | 20 | 2010 |
| 5 | 2 | \$ 1,552.90 | \$ 3,105.80 | \$ 4,658.70 | 23 | 2340 |
| 5 | 2 | \$ 1,552.90 | \$ 3,105.80 | \$ 4,658.70 | 23 | 2340 |
| 10 | | \$ - | \$ - | \$ - | 23 | 2330 |
| 5 | 2 | \$ 1,047.23 | \$ 2,094.46 | \$ 3,141.70 | 66 | 6636 |
| 5 | 2 | \$ 1,047.23 | \$ 2,094.46 | \$ 3,141.70 | 66 | 6636 |
| 5 | 2 | \$ 723.37 | \$ 1,446.73 | \$ 2,170.10 | 41 | 4110 |
| 39 | 2 | \$ 755.90 | \$ 1,511.79 | \$ 27,968.21 | 61 | 6115 |
| 39 | 1 | \$ 226.79 | \$ 226.79 | \$ 8,618.21 | 54 | 5445 |
| 10 | 1 | \$ 5,542.00 | \$ 5,542.00 | \$ 49,878.00 | 61 | 6116 |
| 39 | 1 | \$ 12,648.72 | \$ 12,648.72 | \$ 480,651.28 | 54 | 5410 |
| 10 | 2 | \$ 95.00 | \$ 190.00 | \$ 759.99 | 61 | 6115 |
| 10 | 2 | \$ 66.00 | \$ 132.00 | \$ 527.99 | 61 | 6115 |
| 10 | 2 | \$ 95.00 | \$ 190.00 | \$ 759.99 | 61 | 6115 |
| 10 | 2 | \$ 66.00 | \$ 132.00 | \$ 527.99 | 61 | 6115 |
| 10 | 2 | \$ 104.00 | \$ 208.00 | \$ 831.99 | 61 | 6115 |
| 10 | 2 | \$ 190.00 | \$ 380.00 | \$ 1,519.99 | 61 | 6115 |
| 7 | 2 | \$ 21.43 | \$ 42.86 | \$ 107.14 | 66 | 6605 |
| 7 | 2 | \$ 999.86 | \$ 1,999.71 | \$ 4,999.29 | 45 | 4520 |
| 10 | 2 | \$ 10,000.00 | \$ 20,000.00 | \$ 80,000.00 | 61 | 6115 |
| 7 | 2 | \$ 57.00 | \$ 114.00 | \$ 285.00 | 61 | 6150 |
| 7 | 2 | \$ 57.00 | \$ 114.00 | \$ 285.00 | 61 | 6150 |
| 7 | 2 | \$ 37.14 | \$ 74.29 | \$ 185.71 | 59 | 5985 |
| 7 | | \$ 38.57 | \$ - | \$ 270.00 | 58 | 5895 |
| 7 | 3 | \$ 92.86 | \$ 278.57 | \$ 371.43 | 58 | 5805 |
| 5 | 1 | \$ 229.20 | \$ 229.20 | \$ 916.80 | 70 | 7025 |
| 5 | 1 | \$ 443.00 | \$ 443.00 | \$ 1,772.00 | 70 | 7025 |
| 5 | 1 | \$ 443.00 | \$ 443.00 | \$ 1,772.00 | 70 | 7025 |
| 5 | 1 | \$ 399.00 | \$ 399.00 | \$ 1,596.00 | 70 | 7025 |
| 7 | 2 | \$ 271.43 | \$ 542.86 | \$ 1,357.14 | 59 | 5985 |
| 7 | 2 | \$ 271.43 | \$ 542.86 | \$ 1,357.14 | 59 | 5985 |
| 7 | 2 | \$ 171.43 | \$ 342.86 | \$ 857.14 | 58 | 5895 |
| 7 | 2 | \$ 171.43 | \$ 342.86 | \$ 857.14 | 58 | 5895 |
| 7 | 2 | \$ 726.43 | \$ 1,452.86 | \$ 3,632.14 | 66 | 6665 |
| 7 | 2 | \$ 173.57 | \$ 347.14 | \$ 867.86 | 0 | 0 |
| 7 | 2 | \$ 173.57 | \$ 347.14 | \$ 867.86 | 0 | 0 |
| 7 | 2 | \$ 500.00 | \$ 1,000.00 | \$ 2,500.00 | 66 | 6685 |
| 7 | 1 | \$ 52.71 | \$ 52.71 | \$ 316.29 | 74 | 7435 |
| 5 | 1 | \$ 347.17 | \$ 347.17 | \$ 1,388.67 | 70 | 7025 |
| 5 | 1 | \$ 347.17 | \$ 347.17 | \$ 1,388.67 | 70 | 7025 |
| 5 | 1 | \$ 222.80 | \$ 222.80 | \$ 891.20 | 70 | 7025 |
| 7 | 1 | \$ 213.57 | \$ 213.57 | \$ 1,281.43 | 58 | 5805 |
| 7 | 1 | \$ 213.57 | \$ 213.57 | \$ 1,281.43 | 58 | 5805 |

| | | | | | | |
|----|---|-------------|-------------|--------------|----|------|
| 7 | 1 | \$ 80.71 | \$ 80.71 | \$ 484.29 | 58 | 5895 |
| 7 | 1 | \$ 17.86 | \$ 17.86 | \$ 107.14 | 61 | 6150 |
| 7 | 3 | \$ 135.71 | \$ 407.14 | \$ 542.86 | 58 | 5805 |
| 7 | 3 | \$ 135.71 | \$ 407.14 | \$ 542.86 | 58 | 5805 |
| 7 | 2 | \$ 92.86 | \$ 185.71 | \$ 464.29 | 61 | 6150 |
| 7 | 3 | \$ 142.86 | \$ 428.57 | \$ 571.43 | 58 | 5895 |
| 7 | 2 | \$ 142.86 | \$ 285.71 | \$ 714.29 | 59 | 5985 |
| 7 | 3 | \$ 42.14 | \$ 126.43 | \$ 168.57 | 58 | 5895 |
| 7 | 3 | \$ 117.86 | \$ 353.57 | \$ 471.43 | 58 | 5895 |
| 7 | 3 | \$ 117.86 | \$ 353.57 | \$ 471.43 | 58 | 5895 |
| 7 | 3 | \$ 42.14 | \$ 126.43 | \$ 168.57 | 58 | 5895 |
| 7 | 5 | \$ 45.71 | \$ 228.57 | \$ 91.43 | 58 | 5895 |
| 7 | 1 | \$ 54.14 | \$ 54.14 | \$ 324.86 | 58 | 5895 |
| 7 | 1 | \$ 54.14 | \$ 54.14 | \$ 324.86 | 58 | 5895 |
| 7 | 1 | \$ 54.14 | \$ 54.14 | \$ 324.86 | 58 | 5895 |
| 7 | 1 | \$ 54.14 | \$ 54.14 | \$ 324.86 | 58 | 5895 |
| 7 | 1 | \$ 54.14 | \$ 54.14 | \$ 324.86 | 58 | 5895 |
| 7 | 1 | \$ 54.14 | \$ 54.14 | \$ 324.86 | 58 | 5895 |
| 7 | 1 | \$ 54.14 | \$ 54.14 | \$ 324.86 | 58 | 5895 |
| 7 | 1 | \$ 54.14 | \$ 54.14 | \$ 324.86 | 58 | 5895 |
| 7 | 1 | \$ 54.14 | \$ 54.14 | \$ 324.86 | 58 | 5895 |
| 7 | 1 | \$ 17.86 | \$ 17.86 | \$ 107.14 | 61 | 6150 |
| 7 | 1 | \$ 17.86 | \$ 17.86 | \$ 107.14 | 61 | 6150 |
| 7 | 1 | \$ 17.86 | \$ 17.86 | \$ 107.14 | 61 | 6150 |
| 7 | 1 | \$ 80.71 | \$ 80.71 | \$ 484.29 | 58 | 5895 |
| 7 | 1 | \$ 80.71 | \$ 80.71 | \$ 484.29 | 58 | 5895 |
| 7 | 1 | \$ 80.71 | \$ 80.71 | \$ 484.29 | 58 | 5895 |
| 7 | 1 | \$ 80.71 | \$ 80.71 | \$ 484.29 | 58 | 5895 |
| 7 | 1 | \$ 80.71 | \$ 80.71 | \$ 484.29 | 58 | 5895 |
| 7 | 1 | \$ 80.71 | \$ 80.71 | \$ 484.29 | 58 | 5895 |
| 7 | 1 | \$ 80.71 | \$ 80.71 | \$ 484.29 | 58 | 5895 |
| 7 | 1 | \$ 80.71 | \$ 80.71 | \$ 484.29 | 58 | 5895 |
| 5 | 2 | \$ 640.00 | \$ 1,280.00 | \$ 1,920.00 | 23 | 2350 |
| 5 | 2 | \$ 4,000.00 | \$ 8,000.00 | \$ 12,000.00 | 19 | 1940 |
| 10 | 2 | \$ 284.50 | \$ 569.00 | \$ 2,276.00 | 38 | 3810 |
| 7 | 3 | \$ 552.86 | \$ 1,658.57 | \$ 2,211.43 | 58 | 5805 |
| 10 | 3 | \$ 2,366.00 | \$ 7,098.00 | \$ 16,562.00 | 58 | 5895 |
| 10 | 3 | \$ 1,485.00 | \$ 4,455.00 | \$ 10,395.00 | 58 | 5895 |
| 10 | 1 | \$ 979.20 | \$ 979.20 | \$ 8,812.80 | 58 | 5895 |
| 7 | 1 | \$ 32.71 | \$ 32.71 | \$ 196.29 | 23 | 2350 |
| 7 | 1 | \$ 32.71 | \$ 32.71 | \$ 196.29 | 19 | 1940 |
| 10 | 1 | \$ 170.33 | \$ 170.33 | \$ 1,532.99 | 39 | 3990 |
| 7 | 1 | \$ 71.29 | \$ 71.29 | \$ 427.71 | 58 | 5805 |
| 7 | 1 | \$ 71.29 | \$ 71.29 | \$ 427.71 | 38 | 3805 |
| 7 | 1 | \$ 71.29 | \$ 71.29 | \$ 427.71 | 44 | 4420 |
| 7 | 1 | \$ 156.43 | \$ 156.43 | \$ 938.57 | 70 | 7010 |
| 7 | 1 | \$ 156.43 | \$ 156.43 | \$ 938.57 | 70 | 7010 |
| 7 | 1 | \$ 156.43 | \$ 156.43 | \$ 938.57 | 70 | 7010 |
| 7 | 1 | \$ 156.43 | \$ 156.43 | \$ 938.57 | 70 | 7010 |
| 7 | 1 | \$ 80.71 | \$ 80.71 | \$ 484.29 | 58 | 5895 |
| 7 | 1 | \$ 80.71 | \$ 80.71 | \$ 484.29 | 58 | 5895 |
| 7 | 1 | \$ 80.71 | \$ 80.71 | \$ 484.29 | 58 | 5895 |
| 7 | 1 | \$ 17.86 | \$ 17.86 | \$ 107.14 | 61 | 6150 |
| 7 | 1 | \$ 35.43 | \$ 35.43 | \$ 212.57 | 61 | 6150 |
| 7 | 1 | \$ 35.43 | \$ 35.43 | \$ 212.57 | 61 | 6150 |
| 7 | 1 | \$ 50.00 | \$ 50.00 | \$ 300.00 | 58 | 5895 |

| | | | | | | |
|----|---|-------------|--------------|---------------|----|------|
| 7 | 1 | \$ 50.00 | \$ 50.00 | \$ 300.00 | 58 | 5895 |
| 7 | 1 | \$ 50.00 | \$ 50.00 | \$ 300.00 | 58 | 5895 |
| 7 | 1 | \$ 38.57 | \$ 38.57 | \$ 231.43 | 58 | 5895 |
| 7 | 1 | \$ 47.14 | \$ 47.14 | \$ 282.86 | 58 | 5895 |
| 7 | 1 | \$ 47.14 | \$ 47.14 | \$ 282.86 | 58 | 5895 |
| 7 | 1 | \$ 47.14 | \$ 47.14 | \$ 282.86 | 58 | 5895 |
| 7 | 1 | \$ 53.57 | \$ 53.57 | \$ 321.43 | 58 | 5895 |
| 39 | 2 | \$ 5,120.95 | \$ 10,241.90 | \$ 189,475.10 | 54 | 5411 |
| 10 | 1 | \$ 344.40 | \$ 344.40 | \$ 3,099.60 | 61 | 6115 |
| 7 | 1 | \$ 263.29 | \$ 263.29 | \$ 1,579.71 | 58 | 5805 |
| 5 | 1 | \$ 3,024.00 | \$ 3,024.00 | \$ 12,096.00 | 61 | 6115 |
| 5 | 1 | \$ 3,024.00 | \$ 3,024.00 | \$ 12,096.00 | 61 | 6115 |
| 5 | 1 | \$ 3,024.00 | \$ 3,024.00 | \$ 12,096.00 | 61 | 6115 |
| 10 | 1 | \$ 1,992.00 | \$ 1,992.00 | \$ 17,928.00 | 25 | 2590 |
| 10 | 1 | \$ 205.80 | \$ 205.80 | \$ 1,852.20 | 23 | 2330 |
| 10 | 1 | \$ 265.50 | \$ 265.50 | \$ 2,389.50 | 23 | 2350 |
| 5 | 1 | \$ 215.80 | \$ 215.80 | \$ 863.20 | 66 | 6655 |
| 5 | 1 | \$ 385.20 | \$ 385.20 | \$ 1,540.80 | 66 | 6655 |
| 5 | 1 | \$ 199.20 | \$ 199.20 | \$ 796.80 | 66 | 6660 |
| 5 | 1 | \$ 889.80 | \$ 889.80 | \$ 3,559.20 | 66 | 6655 |
| 5 | 1 | \$ 179.20 | \$ 179.20 | \$ 716.80 | 66 | 6636 |
| | | | | | | |
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| | | | | | | |

\$ 498,817.59 \$ 2,028,221.75 \$ 3,412,559.75

NSF Disposal Approved 01/22/02

NSF Disposal Approved 12/21/00

NSF Disposal Approved 12/21/00

NSF Disposal Approved 12/21/00

NSF Disposal Approval 10/10/03

NSF Disposal Approved 11/07/01

NSF Disposal Approval 10/10/03

NSF Disposal Approval 10/10/03

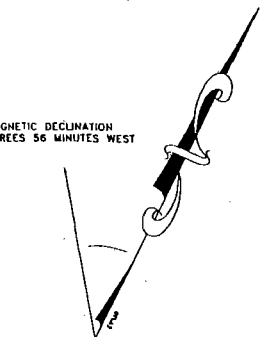
NSF Disposal Approval 10/10/03

NSF Disposal Approved 08/30/01

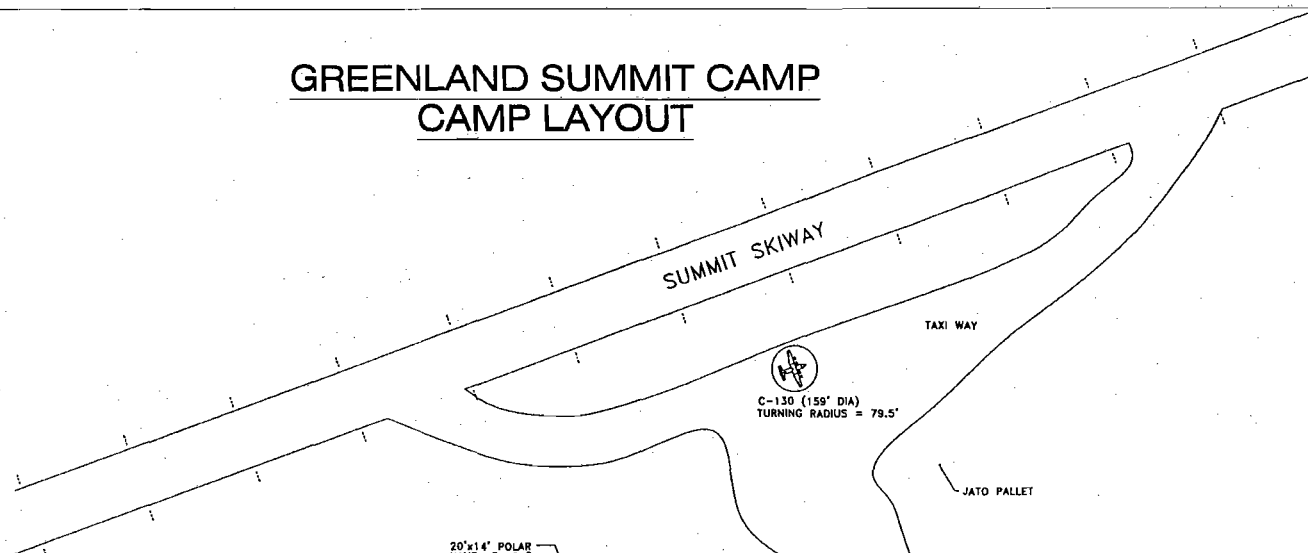
NSF Disposal Approved 08/30/01

GREENLAND SUMMIT CAMP CAMP LAYOUT

MAGNETIC DECLINATION
36 DEGREES 56 MINUTES WEST

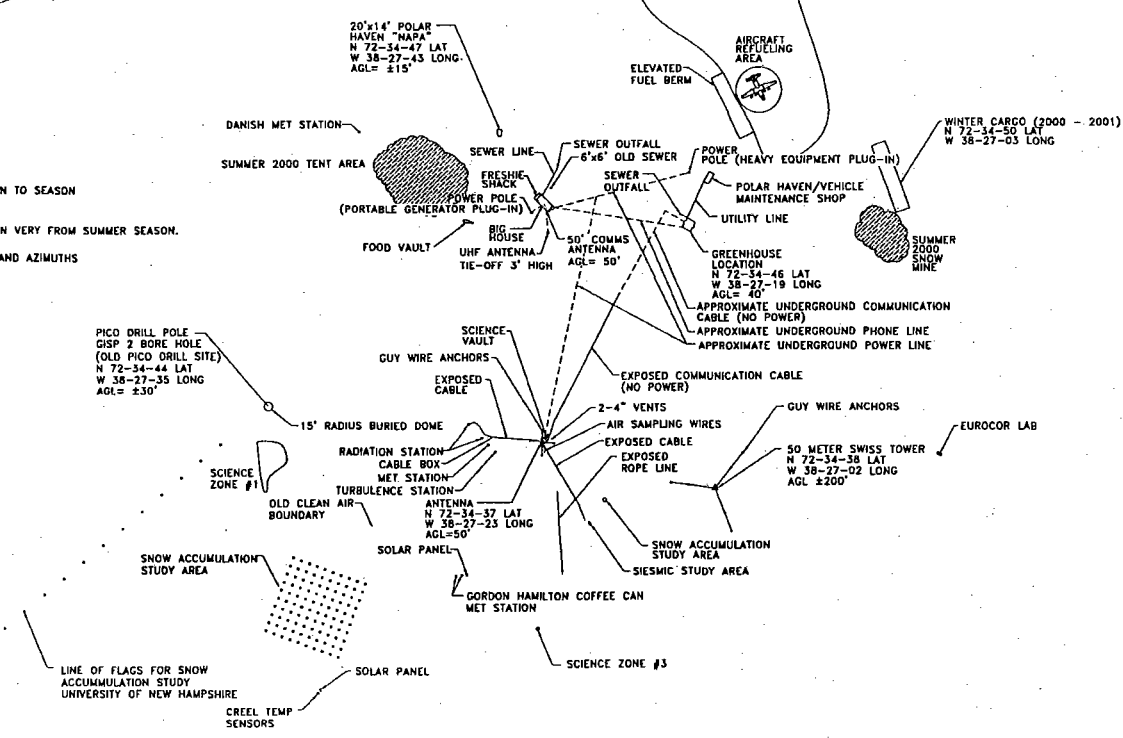


SCALE: 1" = 200'
0 200 400 600



NOTES:

- 1) MAP LOCATIONS VERIFIED BY JULY 2000 FIELD SURVEY.
- 2) LOCATION OF SUMMER TENT AREA AND SUMMER SNOWLINE MAY VARY FROM SEASON TO SEASON
- 3) ALL GPS COORDINATES (LAT/LONG) HAVE AN ACCURACY OF +/- 10 FEET.
- 4) AGL REFERS TO ABOVE GROUND LEVEL HEIGHT (ALL IN FEET).
- 5) ALL POLAR HAVENS ARE SHOWN AS LOCATED IN JULY 2000. ACTUAL LOCATION CAN VARY FROM SUMMER SEASON.
- 6) LOCAL MAGNETIC DECLINATION 36 DEGREES 53 MINUTES WEST OF TRUE NORTH. TO CONVERT TO MAGNETIC NORTH ADD 36 DEGREES 53 MINUTES TO TRUE BEARINGS AND AZIMUTHS



**SUMMIT CAMP SITE PLAN
GREENLAND**

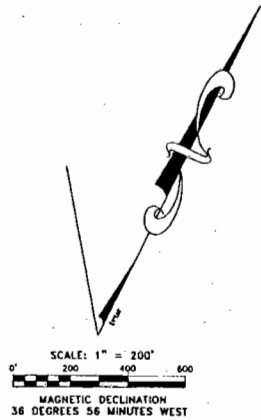
VECO POLAR RESOURCES under contract to
THE NATIONAL SCIENCE FOUNDATION
9000 EAST NICHOLS AVE., SUITE 250
ENGLEWOOD, COLORADO 80113

SCALE: 1"=200'

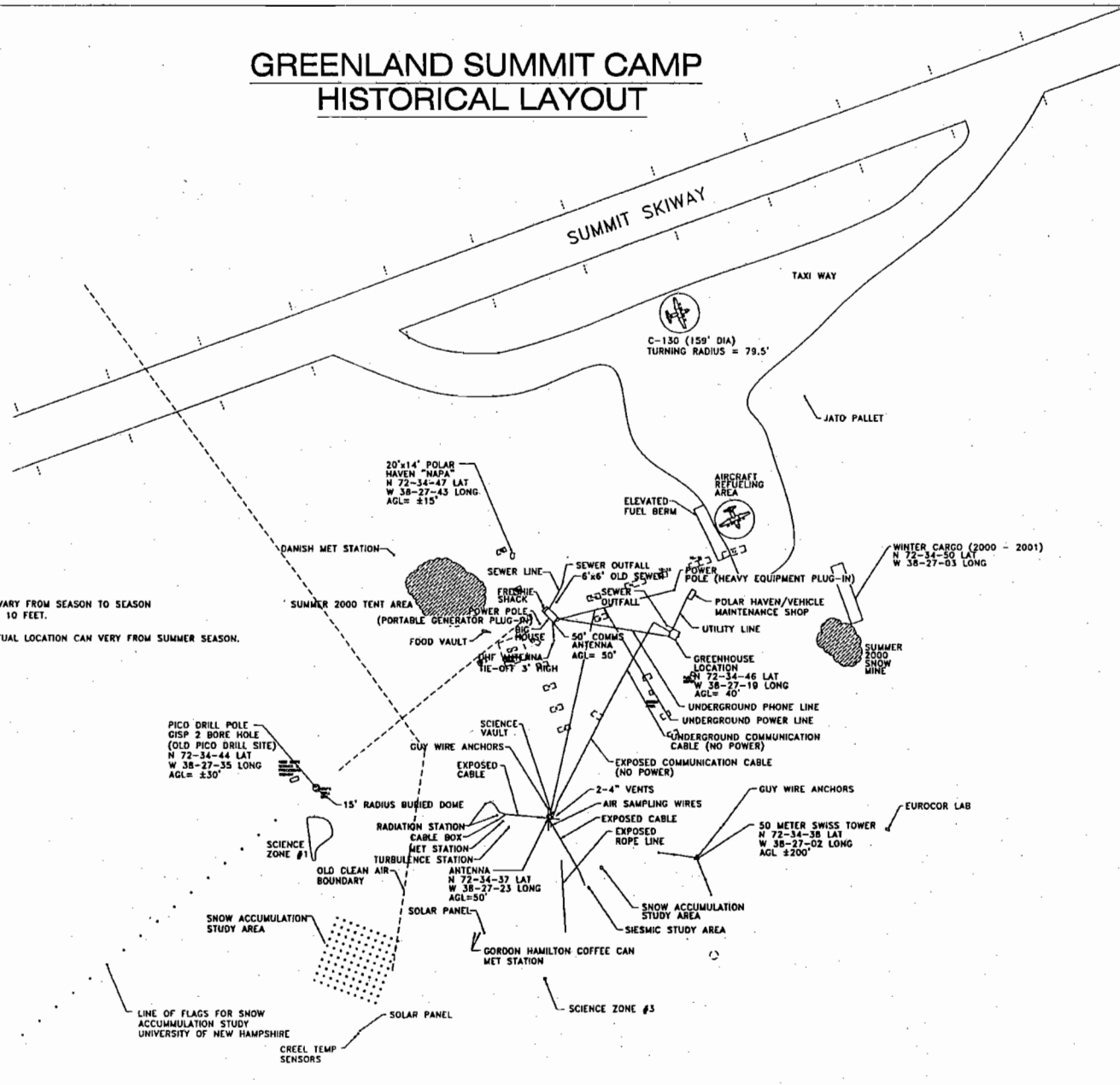
DATE: NOV. 00

SUMMIT CAMP
CAMP LAYOUT VPR-C-002
JSL/JP

GREENLAND SUMMIT CAMP HISTORICAL LAYOUT



- NOTES:**
- 1) MAP LOCATIONS VERIFIED BY JULY 2000 FIELD SURVEY.
 - 2) LOCATION OF SUMMER TENT AREA AND SUMMER SHOWLINE MAY VARY FROM SEASON TO SEASON
 - 3) ALL GPS COORDINATES (LAT/LONG) HAVE AN ACCURACY OF +/- 10 FEET.
 - 4) AGL REFERS TO ABOVE GROUND LEVEL HEIGHT (ALL IN FEET).
 - 5) ALL POLAR HAVENS ARE SHOWN AS LOCATED IN JULY 2000. ACTUAL LOCATION CAN VARY FROM SUMMER SEASON.



**SUMMIT CAMP SITE PLAN
GREENLAND**

VECO POLAR RESOURCES under contract to
THE NATIONAL SCIENCE FOUNDATION
9000 EAST NICHOLS AVE., SUITE 250
ENGLEWOOD, COLORADO, 80113

| | |
|--|-----------------|
| SCALE 1"=200' | DATE NOV. 00 |
| | |
| PROJECT: SUMMIT CAMP DRAWING: HISTORICAL LAYOUT VPR-C-003 DATE: 10/15/00 | |

**National Science Foundation
Software Property Asset Cost Worksheet**

| | | | | |
|---|--|---------------------|-------------------|-------------------------|
| Project I.D. | | | | |
| Description | | | | |
| | | Direct Costs | | |
| Commercial Off the Shelf (COTS) | | | | |
| Purchased Software | | | | |
| Purchase Order No. | | | | |
| Purchase Order Amount | | | | 0.00 |
| | | Direct Costs | | |
| NSF Contractor Development Costs | | | | |
| Contract No. | | | | |
| Contract Amount | | | | 0.00 |
| LESS: Exclusions | | | | |
| a. Primary Design Costs | | | | |
| b. Marketing Survey Costs | | | | |
| c. Data Conversion Costs | | | | |
| d. Minor Post-Implementation Costs | | | | |
| <u>Total Exclusions</u> | | () | | () |
| NSF Internal Development Costs | | | | |
| Salaries and Wages | | Annual | % of Time | Direct |
| Employee | | Salaries | On Project | Salaries |
| 1. | | | % | |
| 2. | | | % | |
| 3. | | | % | |
| 4. | | | % | |
| 5. | | | % | |
| 6. | | | % | |
| 7. | | | % | |
| 8. | | | % | |
| 9. | | | % | |
| 10. | | | % | |
| Total Direct Salaries | | | | 0.00 |
| Indirect Cost Rate | | 53% | | x 1.53 |
| Total Salaries & Wages | | | | 0.00 0.00 |
| | | Direct Costs | | |
| Travel & Transportation | | | | |
| Distributed General Administrative | | | | |
| Total Other Direct Costs | | | | 0.00 0.00 |
| Grand Total (Value recorded in NSF Property System) | | | | 0.00 |

**NATIONAL SCIENCE FOUNDATION
GENERAL PROPERTY, PLANT AND EQUIPMENT (PP&E)
POLICY ON DEPRECIATION OF IMPROVEMENTS**

Improvements to Capital Assets

Consistent with the Statement of Federal Financial Accounting Standards (SFFAS) No. 6, "Accounting for Property, Plant and Equipment," improvement costs should only be capitalized when the improvement increases a PP&E asset's useful life, capacity, size, or efficiency. In addition, an improvement shall only be capitalized when the cost of the improvement equals or exceeds the NSF capitalization threshold. If improvements to an asset are consistently below the capitalization threshold and it is known that the asset will eventually be over the capitalization threshold because something bigger is being built, an adjustment will be made to capitalize the asset once the assets aggregate costs are over the threshold. Further, improvements shall be capitalized and depreciated separately from the PP&E asset improved. Improvements that do not increase an asset's useful life capacity, size, or efficiency, regardless of the amount of the cost, shall be expensed.

Improvements. Replacement of a component with an improved component, such as replacing an engine, installing a new HVAC system or the replacing of single pane windows with double pane windows, would be considered capitalized improvements if they exceed the NSF capitalization threshold.

Improvements that do not Extend the Useful Life. Improvements that do not extend the useful life of a PP&E asset but increase the assets capacity, size or efficiency shall be depreciated over the remaining recovery period of that asset. For example, if a 10-year recovery period asset is improved after the fourth year of the asset's useful life, and the improvement increases the capacity of the asset, but does not extend its useful life, the recovery period of the improvement is 6 years – the remaining recovery period for the asset improved.

Improvements that Extend the Useful Life. Improvements that extend the useful life of a PP&E personal property asset shall be depreciated over the period that actually reflects the useful life of the improvement. For example, if a 5-year recovery period asset is improved after the third year of the asset's useful life, and the improvement extends the useful life of the original asset by 2 years, the recovery period of the improvement is 4 years. (The remaining 2 years of the asset's original useful life plus the 2 additional years of additional useful life.)

Maintenance and Repair. Maintenance and repair costs are not considered capitalized improvements, regardless of whether the costs exceed the NSF capitalization threshold. Examples of maintenance and repair include in kind replacement of any component of an item of real property (e.g., roof, floor, utility lines); internal reconfiguration of a building (i.e., moving of partitions or equipment); or any improvement that does not materially increase the value of the real property (e.g., painting of interior or exterior walls).

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94-2017 AK, STATEWIDE

06/10/03

FOR OFFICIAL USE ONLY BY FEDERAL AGENCIES PARTICIPATING IN MOU WITH DOL
 WASHINGTON D.C. 20210

| | | |
|------------------|---------------------|-----------------------------------|
| William W. Gross | Division of | Wage Determination No.: 1994-2017 |
| Director | Wage Determinations | Revision No.: 28 |
| | | Date Of Last Revision: 06/04/2003 |

State: Alaska
 Area: Alaska Statewide

Fringe Benefits Required Follow the Occupational Listing

| OCCUPATION CODE - TITLE | MINIMUM WAGE RATE |
|---|-------------------|
| 01000 - Administrative Support and Clerical Occupations | |
| 01011 - Accounting Clerk I | 12.25 |
| 01012 - Accounting Clerk II | 13.46 |
| 01013 - Accounting Clerk III | 16.97 |
| 01014 - Accounting Clerk IV | 19.02 |
| 01030 - Court Reporter | 17.07 |
| 01050 - Dispatcher, Motor Vehicle | 17.07 |
| 01060 - Document Preparation Clerk | 15.39 |
| 01070 - Messenger (Courier) | 13.11 |
| 01090 - Duplicating Machine Operator | 13.38 |
| 01110 - Film/Tape Librarian | 15.27 |
| 01115 - General Clerk I | 12.14 |
| 01116 - General Clerk II | 14.64 |
| 01117 - General Clerk III | 15.39 |
| 01118 - General Clerk IV | 17.32 |
| 01120 - Housing Referral Assistant | 18.57 |
| 01131 - Key Entry Operator I | 12.28 |
| 01132 - Key Entry Operator II | 17.14 |
| 01191 - Order Clerk I | 13.64 |
| 01192 - Order Clerk II | 15.39 |
| 01261 - Personnel Assistant (Employment) I | 15.35 |
| 01262 - Personnel Assistant (Employment) II | 17.25 |
| 01263 - Personnel Assistant (Employment) III | 19.28 |
| 01264 - Personnel Assistant (Employment) IV | 22.38 |
| 01270 - Production Control Clerk | 21.31 |
| 01290 - Rental Clerk | 15.27 |
| 01300 - Scheduler, Maintenance | 16.01 |
| 01311 - Secretary I | 16.01 |
| 01312 - Secretary II | 17.92 |
| 01313 - Secretary III | 18.57 |
| 01314 - Secretary IV | 20.88 |
| 01315 - Secretary V | 22.76 |
| 01320 - Service Order Dispatcher | 15.27 |
| 01341 - Stenographer I | 13.59 |
| 01342 - Stenographer II | 15.27 |
| 01400 - Supply Technician | 20.88 |
| 01420 - Survey Worker (Interviewer) | 17.07 |
| 01460 - Switchboard Operator-Receptionist | 12.54 |
| 01510 - Test Examiner | 17.92 |

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| | |
|--|-------|
| 01520 - Test Proctor | 17.92 |
| 01531 - Travel Clerk I | 12.59 |
| 01532 - Travel Clerk II | 13.89 |
| 01533 - Travel Clerk III | 15.34 |
| 01611 - Word Processor I | 13.66 |
| 01612 - Word Processor II | 15.44 |
| 01613 - Word Processor III | 16.71 |
| 03000 - Automatic Data Processing Occupations | |
| 03010 - Computer Data Librarian | 16.45 |
| 03041 - Computer Operator I | 16.09 |
| 03042 - Computer Operator II | 17.14 |
| 03043 - Computer Operator III | 24.42 |
| 03044 - Computer Operator IV | 25.98 |
| 03045 - Computer Operator V | 27.62 |
| 03071 - Computer Programmer I (1) | 20.07 |
| 03072 - Computer Programmer II (1) | 24.82 |
| 03073 - Computer Programmer III (1) | 27.62 |
| 03074 - Computer Programmer IV (1) | 27.62 |
| 03101 - Computer Systems Analyst I (1) | 27.62 |
| 03102 - Computer Systems Analyst II (1) | 27.62 |
| 03103 - Computer Systems Analyst III (1) | 27.62 |
| 03160 - Peripheral Equipment Operator | 16.62 |
| 05000 - Automotive Service Occupations | |
| 05005 - Automotive Body Repairer, Fiberglass | 22.47 |
| 05010 - Automotive Glass Installer | 20.51 |
| 05040 - Automotive Worker | 20.51 |
| 05070 - Electrician, Automotive | 22.17 |
| 05100 - Mobile Equipment Servicer | 18.40 |
| 05130 - Motor Equipment Metal Mechanic | 22.47 |
| 05160 - Motor Equipment Metal Worker | 20.51 |
| 05190 - Motor Vehicle Mechanic | 22.47 |
| 05220 - Motor Vehicle Mechanic Helper | 17.38 |
| 05250 - Motor Vehicle Upholstery Worker | 20.51 |
| 05280 - Motor Vehicle Wrecker | 20.51 |
| 05310 - Painter, Automotive | 21.44 |
| 05340 - Radiator Repair Specialist | 20.51 |
| 05370 - Tire Repairer | 17.78 |
| 05400 - Transmission Repair Specialist | 22.47 |
| 07000 - Food Preparation and Service Occupations | |
| (not set) - Food Service Worker | 10.30 |
| 07010 - Baker | 14.50 |
| 07041 - Cook I | 12.82 |
| 07042 - Cook II | 14.72 |
| 07070 - Dishwasher | 10.16 |
| 07130 - Meat Cutter | 15.18 |
| 07250 - Waiter/Waitress | 10.83 |
| 09000 - Furniture Maintenance and Repair Occupations | |
| 09010 - Electrostatic Spray Painter | 21.44 |
| 09040 - Furniture Handler | 15.78 |
| 09070 - Furniture Refinisher | 21.44 |
| 09100 - Furniture Refinisher Helper | 17.38 |
| 09110 - Furniture Repairer, Minor | 19.42 |
| 09130 - Upholsterer | 21.44 |
| 11030 - General Services and Support Occupations | |
| 11030 - Cleaner, Vehicles | 9.80 |
| 11060 - Elevator Operator | 11.07 |
| 11090 - Gardener | 15.93 |

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| | |
|---|-------|
| 11121 - House Keeping Aid I | 10.58 |
| 11122 - House Keeping Aid II | 11.87 |
| 11150 - Janitor | 11.07 |
| 11210 - Laborer, Grounds Maintenance | 13.26 |
| 11240 - Maid or Houseman | 10.19 |
| 11270 - Pest Controller | 15.39 |
| 11300 - Refuse Collector | 14.26 |
| 11330 - Tractor Operator | 15.03 |
| 11360 - Window Cleaner | 12.23 |
| 12000 - Health Occupations | |
| 12020 - Dental Assistant | 15.88 |
| 12040 - Emergency Medical Technician (EMT)/Paramedic/Ambulance Driver | 19.48 |
| 12071 - Licensed Practical Nurse I | 13.89 |
| 12072 - Licensed Practical Nurse II | 15.61 |
| 12073 - Licensed Practical Nurse III | 17.47 |
| 12100 - Medical Assistant | 14.93 |
| 12130 - Medical Laboratory Technician | 15.61 |
| 12160 - Medical Record Clerk | 14.20 |
| 12190 - Medical Record Technician | 14.88 |
| 12221 - Nursing Assistant I | 9.47 |
| 12222 - Nursing Assistant II | 10.66 |
| 12223 - Nursing Assistant III | 11.61 |
| 12224 - Nursing Assistant IV | 13.06 |
| 12250 - Pharmacy Technician | 13.94 |
| 12280 - Phlebotomist | 15.94 |
| 12311 - Registered Nurse I | 21.46 |
| 12312 - Registered Nurse II | 26.26 |
| 12313 - Registered Nurse II, Specialist | 26.26 |
| 12314 - Registered Nurse III | 31.77 |
| 12315 - Registered Nurse III, Anesthetist | 31.77 |
| 12316 - Registered Nurse IV | 38.09 |
| 13000 - Information and Arts Occupations | |
| 13002 - Audiovisual Librarian | 23.84 |
| 13011 - Exhibits Specialist I | 21.09 |
| 13012 - Exhibits Specialist II | 25.29 |
| 13013 - Exhibits Specialist III | 30.90 |
| 13041 - Illustrator I | 21.09 |
| 13042 - Illustrator II | 25.29 |
| 13043 - Illustrator III | 30.90 |
| 13047 - Librarian | 22.95 |
| 13050 - Library Technician | 19.63 |
| 13071 - Photographer I | 16.79 |
| 13072 - Photographer II | 21.09 |
| 13073 - Photographer III | 21.99 |
| 13074 - Photographer IV | 26.87 |
| 13075 - Photographer V | 28.25 |
| 15000 - Laundry, Dry Cleaning, Pressing and Related Occupations | |
| 15010 - Assembler | 9.06 |
| 15030 - Counter Attendant | 9.06 |
| 15040 - Dry Cleaner | 11.79 |
| 15070 - Finisher, Flatwork, Machine | 9.06 |
| 15090 - Presser, Hand | 9.06 |
| 15100 - Presser, Machine, Drycleaning | 9.06 |
| 15130 - Presser, Machine, Shirts | 9.06 |
| 15160 - Presser, Machine, Wearing Apparel, Laundry | 9.06 |
| 15190 - Sewing Machine Operator | 13.01 |
| 15220 - Tailor | 14.50 |

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| | |
|--|-------|
| 15250 - Washer, Machine | 9.90 |
| 19000 - Machine Tool Operation and Repair Occupations | |
| 19010 - Machine-Tool Operator (Toolroom) | 22.55 |
| 19040 - Tool and Die Maker | 28.08 |
| 21000 - Material Handling and Packing Occupations | |
| 21010 - Fuel Distribution System Operator | 24.18 |
| 21020 - Material Coordinator | 21.31 |
| 21030 - Material Expediter | 21.31 |
| 21040 - Material Handling Laborer | 16.29 |
| 21050 - Order Filler | 13.82 |
| 21071 - Forklift Operator | 17.80 |
| 21080 - Production Line Worker (Food Processing) | 17.67 |
| 21100 - Shipping/Receiving Clerk | 17.20 |
| 21130 - Shipping Packer | 15.90 |
| 21140 - Store Worker I | 13.66 |
| 21150 - Stock Clerk (Shelf Stocker; Store Worker II) | 17.05 |
| 21210 - Tools and Parts Attendant | 17.67 |
| 21400 - Warehouse Specialist | 17.67 |
| 23000 - Mechanics and Maintenance and Repair Occupations | |
| 23010 - Aircraft Mechanic | 22.18 |
| 23040 - Aircraft Mechanic Helper | 17.38 |
| 23050 - Aircraft Quality Control Inspector | 23.48 |
| 23060 - Aircraft Servicer | 19.42 |
| 23070 - Aircraft Worker | 20.43 |
| 23100 - Appliance Mechanic | 21.45 |
| 23120 - Bicycle Repairer | 17.78 |
| 23125 - Cable Splicer | 30.48 |
| 23130 - Carpenter, Maintenance | 22.54 |
| 23140 - Carpet Layer | 20.43 |
| 23160 - Electrician, Maintenance | 28.07 |
| 23181 - Electronics Technician, Maintenance I | 21.21 |
| 23182 - Electronics Technician, Maintenance II | 30.22 |
| 23183 - Electronics Technician, Maintenance III | 32.77 |
| 23260 - Fabric Worker | 19.83 |
| 23290 - Fire Alarm System Mechanic | 22.47 |
| 23310 - Fire Extinguisher Repairer | 19.16 |
| 23340 - Fuel Distribution System Mechanic | 28.42 |
| 23370 - General Maintenance Worker | 20.43 |
| 23400 - Heating, Refrigeration and Air Conditioning Mechanic | 22.47 |
| 23430 - Heavy Equipment Mechanic | 24.01 |
| 23440 - Heavy Equipment Operator | 25.83 |
| 23460 - Instrument Mechanic | 24.04 |
| 23470 - Laborer | 13.51 |
| 23500 - Locksmith | 22.55 |
| 23530 - Machinery Maintenance Mechanic | 24.81 |
| 23550 - Machinist, Maintenance | 23.08 |
| 23580 - Maintenance Trades Helper | 17.38 |
| 23640 - Millwright | 23.95 |
| 23700 - Office Appliance Repairer | 22.55 |
| 23740 - Painter, Aircraft | 24.52 |
| 23760 - Painter, Maintenance | 21.45 |
| 23790 - Pipefitter, Maintenance | 29.01 |
| 23800 - Plumber, Maintenance | 27.69 |
| 23820 - Pneudraulic Systems Mechanic | 23.95 |
| 23850 - Rigger | 23.95 |
| 23870 - Scale Mechanic | 21.20 |
| 23890 - Sheet-Metal Worker, Maintenance | 25.83 |

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| | |
|--|-------|
| 23910 - Small Engine Mechanic | 20.43 |
| 23930 - Telecommunication Mechanic I | 23.63 |
| 23931 - Telecommunication Mechanic II | 27.00 |
| 23950 - Telephone Lineman | 23.63 |
| 23960 - Welder, Combination, Maintenance | 22.47 |
| 23965 - Well Driller | 24.34 |
| 23970 - Woodcraft Worker | 23.95 |
| 23980 - Woodworker | 20.12 |
| 24000 - Personal Needs Occupations | |
| 24570 - Child Care Attendant | 12.47 |
| 24580 - Child Care Center Clerk | 15.54 |
| 24600 - Chore Aid | 11.74 |
| 24630 - Homemaker | 18.94 |
| 25000 - Plant and System Operation Occupations | |
| 25010 - Boiler Tender | 26.53 |
| 25040 - Sewage Plant Operator | 22.25 |
| 25070 - Stationary Engineer | 26.53 |
| 25190 - Ventilation Equipment Tender | 17.38 |
| 25210 - Water Treatment Plant Operator | 21.94 |
| 27000 - Protective Service Occupations | |
| (not set) - Police Officer | 29.17 |
| 27004 - Alarm Monitor | 16.31 |
| 27006 - Corrections Officer | 24.74 |
| 27010 - Court Security Officer | 23.89 |
| 27040 - Detention Officer | 24.74 |
| 27070 - Firefighter | 20.42 |
| 27101 - Guard I | 12.73 |
| 27102 - Guard II | 15.61 |
| 28000 - Stevedoring/Longshoremen Occupations | |
| 28010 - Blocker and Bracer | 21.20 |
| 28020 - Hatch Tender | 21.20 |
| 28030 - Line Handler | 21.20 |
| 28040 - Stevedore I | 22.75 |
| 28050 - Stevedore II | 25.19 |
| 29000 - Technical Occupations | |
| 21150 - Graphic Artist | 25.25 |
| 29010 - Air Traffic Control Specialist, Center (2) | 29.10 |
| 29011 - Air Traffic Control Specialist, Station (2) | 20.07 |
| 29012 - Air Traffic Control Specialist, Terminal (2) | 22.09 |
| 29023 - Archeological Technician I | 18.22 |
| 29024 - Archeological Technician II | 20.48 |
| 29025 - Archeological Technician III | 25.29 |
| 29030 - Cartographic Technician | 28.75 |
| 29035 - Computer Based Training (CBT) Specialist/ Instructor | 30.74 |
| 29040 - Civil Engineering Technician | 24.20 |
| 29061 - Drafter I | 17.72 |
| 29062 - Drafter II | 21.97 |
| 29063 - Drafter III | 27.28 |
| 29064 - Drafter IV | 28.75 |
| 29081 - Engineering Technician I | 20.52 |
| 29082 - Engineering Technician II | 25.40 |
| 29083 - Engineering Technician III | 28.07 |
| 29084 - Engineering Technician IV | 29.27 |
| 29085 - Engineering Technician V | 31.27 |
| 29086 - Engineering Technician VI | 37.59 |
| 29090 - Environmental Technician | 19.18 |
| 29100 - Flight Simulator/Instructor (Pilot) | 35.35 |

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| | |
|---|-------|
| 29160 - Instructor | 24.39 |
| 29210 - Laboratory Technician | 19.99 |
| 29240 - Mathematical Technician | 27.82 |
| 29361 - Paralegal/Legal Assistant I | 20.48 |
| 29362 - Paralegal/Legal Assistant II | 24.17 |
| 29363 - Paralegal/Legal Assistant III | 29.56 |
| 29364 - Paralegal/Legal Assistant IV | 36.24 |
| 29390 - Photooptics Technician | 24.19 |
| 29480 - Technical Writer | 27.13 |
| 29491 - Unexploded Ordnance (UXO) Technician I | 18.49 |
| 29492 - Unexploded Ordnance (UXO) Technician II | 22.47 |
| 29493 - Unexploded Ordnance (UXO) Technician III | 26.81 |
| 29494 - Unexploded (UXO) Safety Escort | 18.49 |
| 29495 - Unexploded (UXO) Sweep Personnel | 18.49 |
| 29620 - Weather Observer, Senior (3) | 26.72 |
| 29621 - Weather Observer, Combined Upper Air and Surface Programs (3) | 19.09 |
| 29622 - Weather Observer, Upper Air (3) | 19.09 |
| 31000 - Transportation/ Mobile Equipment Operation Occupations | |
| 31030 - Bus Driver | 18.80 |
| 31260 - Parking and Lot Attendant | 13.19 |
| 31290 - Shuttle Bus Driver | 17.68 |
| 31300 - Taxi Driver | 15.74 |
| 31361 - Truckdriver, Light Truck | 17.30 |
| 31362 - Truckdriver, Medium Truck | 18.75 |
| 31363 - Truckdriver, Heavy Truck | 20.80 |
| 31364 - Truckdriver, Tractor-Trailer | 20.84 |
| 99000 - Miscellaneous Occupations | |
| 99020 - Animal Caretaker | 11.22 |
| 99030 - Cashier | 11.70 |
| 99041 - Carnival Equipment Operator | 14.59 |
| 99042 - Carnival Equipment Repairer | 15.47 |
| 99043 - Carnival Worker | 11.99 |
| 99050 - Desk Clerk | 14.09 |
| 99095 - Embalmer | 18.71 |
| 99300 - Lifeguard | 11.11 |
| 99310 - Mortician | 18.71 |
| 99350 - Park Attendant (Aide) | 13.94 |
| 99400 - Photofinishing Worker (Photo Lab Tech., Darkroom Tech) | 11.41 |
| 99500 - Recreation Specialist | 22.53 |
| 99510 - Recycling Worker | 20.27 |
| 99610 - Sales Clerk | 12.18 |
| 99620 - School Crossing Guard (Crosswalk Attendant) | 12.78 |
| 99630 - Sport Official | 11.11 |
| 99658 - Survey Party Chief (Chief of Party) | 26.44 |
| 99659 - Surveying Technician (Instr. Person/Surveyor Asst./Instr.) | 17.60 |
| 99660 - Surveying Aide | 24.04 |
| 99690 - Swimming Pool Operator | 14.95 |
| 99720 - Vending Machine Attendant | 12.77 |
| 99730 - Vending Machine Repairer | 14.95 |
| 99740 - Vending Machine Repairer Helper | 12.77 |

ALL OCCUPATIONS LISTED ABOVE RECEIVE THE FOLLOWING BENEFITS:

HEALTH & WELFARE: \$2.36 an hour or \$94.40 a week or \$409.07 a month

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VACATION: 2 weeks paid vacation after 1 year of service with a contractor or successor; 3 weeks after 5 years, and 4 weeks after 15 years. Length of service includes the whole span of continuous service with the present contractor or successor, wherever employed, and with the predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 29 CFR 4.173)

HOLIDAYS: A minimum of eleven paid holidays per year: New Year's Day, Martin Luther King Jr's Birthday, Washington's Birthday, Good Friday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day, and Christmas Day. A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.) (See 29 CFR 4.174)

THE OCCUPATIONS WHICH HAVE PARENTHESES AFTER THEM RECEIVE THE FOLLOWING BENEFITS (as numbered):

- 1) Does not apply to employees employed in a bona fide executive, administrative, or professional capacity as defined and delineated in 29 CFR 541. (See CFR 4.156)
- 2) APPLICABLE TO AIR TRAFFIC CONTROLLERS ONLY - NIGHT DIFFERENTIAL: An employee is entitled to pay for all work performed between the hours of 6:00 P.M. and 6:00 A.M. at the rate of basic pay plus a night pay differential amounting to 10 percent of the rate of basic pay.
- 3) WEATHER OBSERVERS - NIGHT PAY & SUNDAY PAY: If you work at night as part of a regular tour of duty, you will earn a night differential and receive an additional 10% of basic pay for any hours worked between 6pm and 6am. If you are a full-time employed (40 hours a week) and Sunday is part of your regularly scheduled workweek, you are paid at your rate of basic pay plus a Sunday premium of 25% of your basic rate for each hour of Sunday work which is not overtime (i.e. occasional work on Sunday outside the normal tour of duty is considered overtime work).

HAZARDOUS PAY DIFFERENTIAL: An 8 percent differential is applicable to employees employed in a position that represents a high degree of hazard when working with or in close proximity to ordnance, explosives, and incendiary materials. This includes work such as screening, blending, dying, mixing, and pressing of sensitive ordnance, explosives, and pyrotechnic compositions such as lead azide, black powder and photoflash powder. All dry-house activities involving propellants or explosives. Demilitarization, modification, renovation, demolition, and maintenance operations on sensitive ordnance, explosives and incendiary materials. All operations involving regrading and cleaning of artillery ranges.

A 4 percent differential is applicable to employees employed in a position that represents a low degree of hazard when working with, or in close proximity to ordnance, (or employees possibly adjacent to) explosives and incendiary materials which involves potential injury such as laceration of hands, face, or arms of the employee engaged in the operation, irritation of the skin, minor burns and the like; minimal damage to immediate or adjacent work area or equipment being used. All operations involving, unloading, storage, and hauling of ordnance, explosive, and incendiary ordnance material other than small arms ammunition. These differentials are only applicable to work that has been specifically designated by the agency for ordnance, explosives, and incendiary material differential pay.

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**** UNIFORM ALLOWANCE ****

If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract, by the employer, by the state or local law, etc.), the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance:

The contractor or subcontractor is required to furnish all employees with an adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition, where uniform cleaning and maintenance is made the responsibility of the employee, all contractors and subcontractors subject to this wage determination shall (in the absence of a bona fide collective bargaining agreement providing for a different amount, or the furnishing of contrary affirmative proof as to the actual cost), reimburse all employees for such cleaning and maintenance at a rate of \$3.35 per week (or \$.67 cents per day). However, in those instances where the uniforms furnished are made of "wash and wear" materials, may be routinely washed and dried with other personal garments, and do not require any special treatment such as dry cleaning, daily washing, or commercial laundering in order to meet the cleanliness or appearance standards set by the terms of the Government contract, by the contractor, by law, or by the nature of the work, there is no requirement that employees be reimbursed for uniform maintenance costs.

**** NOTES APPLYING TO THIS WAGE DETERMINATION ****

Source of Occupational Title and Descriptions:

The duties of employees under job titles listed are those described in the "Service Contract Act Directory of Occupations," Fourth Edition, January 1993, as amended by the Third Supplement, dated March 1997, unless otherwise indicated. This publication may be obtained from the Superintendent of Documents, at 202-783-3238, or by writing to the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Copies of specific job descriptions may also be obtained from the appropriate contracting officer.

REQUEST FOR AUTHORIZATION OF ADDITIONAL CLASSIFICATION AND WAGE RATE {Standard Form 1444 (SF 1444)}

Conformance Process:

The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e., the work to be performed is not performed by any classification listed in the wage determination), be classified by the contractor so as to provide a reasonable relationship (i.e., appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination. Such conformed classes of employees shall be paid the monetary wages and furnished the fringe benefits as are determined. Such conforming process shall be initiated by the contractor prior to the performance of contract work by such unlisted class(es) of employees. The conformed classification, wage rate, and/or fringe benefits shall

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be retroactive to the commencement date of the contract. {See Section 4.6 (C)(vi)} When multiple wage determinations are included in a contract, a separate SF 1444 should be prepared for each wage determination to which a class(es) is to be conformed.

The process for preparing a conformance request is as follows:

1) When preparing the bid, the contractor identifies the need for a conformed occupation) and computes a proposed rate).

2) After contract award, the contractor prepares a written report listing in order proposed classification title), a Federal grade equivalency (FGE) for each proposed classification), job description), and rationale for proposed wage rate), including information regarding the agreement or disagreement of the authorized representative of the employees involved, or where there is no authorized representative, the employees themselves. This report should be submitted to the contracting officer no later than 30 days after such unlisted class(es) of employees performs any contract work.

3) The contracting officer reviews the proposed action and promptly submits a report of the action, together with the agency's recommendations and pertinent information including the position of the contractor and the employees, to the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, for review. (See section 4.6(b)(2) of Regulations 29 CFR Part 4).

4) Within 30 days of receipt, the Wage and Hour Division approves, modifies, or disapproves the action via transmittal to the agency contracting officer, or notifies the contracting officer that additional time will be required to process the request.

5) The contracting officer transmits the Wage and Hour decision to the contractor.

6) The contractor informs the affected employees.

Information required by the Regulations must be submitted on SF 1444 or bond paper.

When preparing a conformance request, the "Service Contract Act Directory of Occupations" (the Directory) should be used to compare job definitions to insure that duties requested are not performed by a classification already listed in the wage determination. Remember, it is not the job title, but the required tasks that determine whether a class is included in an established wage determination. Conformances may not be used to artificially split, combine, or subdivide classifications listed in the wage determination.

5. ISSUED BY (Name) National Science Foundation
 Div of Contracts, Policy, and Oversight
 4201 Wilson Boulevard, Room 475
 Arlington, VA 22230
 6. ADMINISTERED BY (If other than item 5) CODE

7. NAME AND ADDRESS OF CONTRACTOR (No., street, city, county, State and ZIP Code)
 WECO Rocky Mountain, Inc.
 900 E. Nichols Avenue
 Suite 250
 Englewood, CO 80112
 8. DELIVERY See Schedule
 FOB ORIGIN OTHER (See below)
 9. DISCOUNT FOR PROMPT PAYMENT N/A
 10. SUBMIT INVOICES (4 copies unless otherwise specified) TO THE ADDRESS SHOWN IN: See Schedule

11. SHIP TO - MARK FOR See Schedule
 12. PAYMENT WILL BE MADE BY CODE See Schedule

13. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION:
 10 U.S.C. 2304 (c) () 41 U.S.C. 253 (c) ()
 14. ACCOUNTING AND APPROPRIATION DATA 01020100 5205 02XX 4110 \$1,600,000.00

| 15A. ITEM NO. | 15B. SUPPLIES / SERVICES | 15C. QUANTITY | 15D. UNIT | 15E. UNIT PRICE | 15F. AMOUNT |
|---------------|--|---------------|-----------|-----------------|----------------------|
| 1 | Arctic Research Logistics Support Services | 1 | JOB | | See Section B herein |

15G. TOTAL AMOUNT OF CONTRACT \$26,759,511 (incl. Options)

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| A | | SOLICITATION/CONTRACT FORM | | I | | CONTRACT CLAUSES | |
| B | | SUPPLIES OR SERVICES AND PRICES/COSTS | | PART III — LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACH. | | | |
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| H | | SPECIAL CONTRACT REQUIREMENTS | | | | | |

CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE

17. CONTRACTOR'S NEGOTIATED AGREEMENT (Contractor is required to sign this document and return 6 copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all the services set forth or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award/contract, (b) the solicitation, if any, and (c) such other representations, certifications, and specifications.
 18. AWARD (Contractor is not required to sign this document.) Your offer on Solicitation including the additions or changes made by you which additions or changes are set forth in full above, is hereby accepted as to the items listed above and on any continuation sheets. This award consummates the contract which consists of the following documents: (a) the Government's solicitation and your offer, and (b) this award/contract. No further contractual document is necessary.

19A. NAME AND TITLE OF SIGNER
 Russ Ostler
 V. P. Business Development
 20A. NAME OF CONTRACTING OFFICER
 William A. Bryant
 CONTRACTING OFFICER

19B. NAME OF CONTRACTOR BY *Russ Ostler* (Signature of person authorized to sign)
 19C. DATE SIGNED 9 Dec 99
 20B. UNITED STATES OF AMERICA BY *William A. Bryant* (Signature of Contracting Officer)
 20C. DATE SIGNED 12/17/99

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J.1 LISTING OF ATTACHMENTS 30

SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS

B.0 STATEMENT OF AWARD

This award, under Request for Proposal (RFP) CPO-99-005, as amended by amendments 001 through 004, accepts the contractor's proposal dated 7/28/99 (cost and technical volumes), as revised by contractor's Best and Final Offer dated 10/29/99 (cost and technical volumes). This award document hereby incorporates by reference sections K, L and M of the RFP, including the certifications and representations provided by the contractor in section K. This award document also incorporates all changes to RFP CPO-99-005 contained in amendments 001 through 004, and incorporates by reference all attachments as listed in section J, except the statement of work, which is included as an attachment to this award. Clause H.11 of this award document hereby incorporates by reference the contractor's approved subcontracting plan. In addition, the contractor's proposed Small Disadvantaged Business (SDB) participation goals are incorporated by reference herein, and the contractor shall report on the achievement of said goals as required by FAR clause 52.219-25, said clause incorporated by reference in section I herein.

B.1 SCOPE OF CONTRACT

The Contractor shall, acting independently and not as an agent of the government, provide all necessary labor, supplies, materials and logistics support as required to support the National Science Foundation's Arctic Science Program. Performance shall be in accordance with all terms and conditions and specifications as stipulated herein.

B.2 TYPE OF CONTRACT

The Government anticipates the award of either a Cost (No-Fee) or Cost-Plus-Fixed-Fee (CPFF) Contract depending on the type of organization selected for award. Any organization that is unable to receive any fee (profit) based on their charter, tax status, or otherwise, shall, if selected for award, receive a Cost Reimbursement-No Fee type contract.

Any other organization or private concern that can receive fee (profit) shall, if selected for award, receive a cost-plus-fixed-fee type contract.

B.3 PERIOD OF PERFORMANCE

The Government is awarding a Three (3) year contract with One (1) Two (2) year option period for a total period of performance not to exceed 5 years.

B.4 COST/PRICE FOR A COST (NO FEE) TYPE CONTRACT - NOT APPLICABLE

YEAR

TERM

TOTAL ESTIMATED

| | <u>COST</u> |
|--|-------------|
| 1 Date of award through 12 months thereafter | \$ _____ |
| 2 Base Period – Month 13 through 24 | \$ _____ |
| 3 Base Period – Month 25 through 36 | \$ _____ |
| 4 Option Period – Month 37 through 48 | \$ _____ |
| 5 Option Period – Month 49 through 60 | \$ _____ |

Important Note: The offeror shall use the fixed reimbursable amounts (Other Direct Costs) in their proposal as set forth in the appropriate attachment as listed in section J. This applies to either B.4 above or B.5 below, as appropriate.

B.5 COST/PRICE FOR A COST-PLUS-FIXED-FEE TYPE CONTRACT

| <u>YEAR</u> | <u>TERM</u> | <u>TOTAL ESTIMATED COST</u> | <u>FIXED FEE</u> | <u>TOTAL COST</u> |
|---------------|--|---------------------------------|----------------------|-----------------------|
| PLUS | | | | <u>FIXED FEE</u> |
| 1 | Date of award through 12 months thereafter | | | \$3,189,518 |
| 2 | Base Period – Month 13 through 24 | | | \$4,468,023 |
| 3 | Base Period – Month 25 through 36 | | | \$5,486,828 |
| 4 | Option Period – Month 37 through 48 | | / | \$6,432,687 |
| 5 | Option Period – Month 49 through 60 | | — | \$7,182,455 |
| <u>TOTALS</u> | | | | <u>\$26,759,511</u> |

B.6 COMPENSATION

The costs of performance of this contract are defined as the necessary direct costs incurred during the period of performance of this contract and amounts for appropriate indirect expenses applied in accordance with the organization's approved accounting system and in accordance with paragraph B.7 of this section. Allowability and allocability of costs under this contract shall be determined in accordance with Federal Acquisition Regulation (FAR) Part 31 and the terms of this contract.

a. Direct Costs

- (1) Travel – including subsistence in accordance with the Federal Travel Regulations and the organization's established policy with respect thereto.

- (2) Consultants – Payment for the services of consultants shall not exceed \$453.00 per day per consultant nor exceed \$4,530 per consultant during any 12-month period without the prior written approval of the Contracting Officer. Any request by the organization to pay in excess of \$453 per day or \$4,530 to any one consultant within a 12 month period shall contain the following information:
 - (a) a biographical sketch including education and professional experience of the consultant;
 - (b) the services the consultant will perform and the amount of time to be spent;
 - (c) previous rates paid to the consultant by the contractor for similar services for a like period;
 - (d) available information on rates charged by the consultant for similar services for a like period.

- (3) Permanent Equipment –
 - (a) Definition – An item of property which has an acquisition cost of \$5,000 or more and an expected life of two (2) years or more.

 - (b) Requirements – Unless specific written approval by the Contracting Officer is obtained, no costs may be charged to this contract for –1) any item of general purpose equipment such as office furnishings and equipment, air conditioning, reproduction printing equipment, motor vehicles or automated data processing equipment; or 2) any item of specialized research equipment costing \$1,500 or more.

- (4) Subcontracts – Consent to subcontract shall be sought in accordance with FAR clause 52.244-2, incorporated by reference in Section I of this contract.

B.7 INDIRECT COSTS

a. The Contractor will be reimbursed for indirect costs at the following rate(s) subject to appropriate adjustment when the final rate(s) for the period are established:

| <u>COST CENTER</u> | <u>RATE</u> | <u>BASE</u> |
|--------------------|-------------|-------------|
|--------------------|-------------|-------------|

Rates as contained in the contractor's Best and Final Offer dated October 29, 1999, including the proposed rates applied by each subcontractor to their proposed cost bases. The contractor's and identified subcontractor's proposed fee rates applied to allowable costs as determined by the contractor's (subcontractor's) cost accounting system shall not exceed the proposed fee rate or dollar amount included in the Best and Final proposal of October 29, 1999.

b. Pending execution of a modification to this contract setting forth the final indirect cost rate(s) in accordance with FAR clause 52.216-7, incorporated by reference in Section I herein, the contractor shall be reimbursed at rates acceptable to the Contracting Officer.

- c. Notwithstanding the provisions of paragraph b. above, and FAR clause 52.216-7 titled "Allowable Cost and Payment", if pre-determined cost rate(s) are employed then the provisions of FAR Clause 52.216-15, incorporated by reference in Section I and titled "Pre-determined Indirect Cost Rates", shall be used to determine allowable indirect costs

B.8 (INCREMENTAL) CONTRACT FUNDING

For purposes of payment of cost and pursuant to the "Limitation of Funds" clause, the total amount allotted by the Government to this contract is \$1,600,000. The above allotment covers the following period of performance: Date of award through 31 May 2000.

Of the amount obligated above, \$_____ is allotted to cover cost and \$_____ is allotted to cover fixed fee, for a total incremental funding obligation of \$1,600,000. This amount exceed the Government's minimum obligation as set forth in provision B.11 added to the solicitation by amendment 002 dated 6/4/99.

SECTION C - DESCRIPTION/SPECIFICATION/WORK STATEMENT

Statement of Work

Please see Attachment 1

SECTION D - PACKAGING AND MARKING

D.1 PACKAGING AND MARKING

Unless otherwise specified, all items shall be packaged and packed in accordance with normal commercial practices. If magnetic media is involved, packaging shall be clearly marked identifying the contents as such and with a warning for protection against exposure to magnetic fields or temperature extremes.

SECTION E - INSPECTION AND ACCEPTANCE

E.1 NOTICE LISTING CLAUSES INCORPORATED BY REFERENCE

Federal Acquisition Regulations (48 CFR Chapter 1) Clauses

52.246-5 INSPECTION OF SERVICES - APR 1984
COST-REIMBURSEMENT

E.2 EVALUATION AND ACCEPTANCE

Evaluation and acceptance of services delivered under this contract shall be performed by the Contracting Officer or other such person as may be designated elsewhere in this contract or in writing by the Contracting Officer.

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SECTION F - DELIVERIES OR PERFORMANCE

F.1 NOTICE LISTING CLAUSES INCORPORATED BY REFERENCE

Federal Acquisition Regulations (48 CFR Chapter 1) Clauses

52.242-15 STOP-WORK ORDER AUG 1989

F.2 PERIOD OF PERFORMANCE WITH OPTION PERIOD(S)

This contract shall commence at 01 December 1999, and shall expire on 30 November 2002. Should the Government elect to exercise its option(s) to extend the term of the contract, the term of the contract shall be extended by twenty-four months, and shall expire on 30 November 2004.

52.217-9 OPTION TO EXTEND THE TERM OF THE CONTRACT(MAR 1989)

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

(End of clause)

F.3 PROGRAM PLAN

- a. The work under this contract shall be carried out in accordance with an annual "Program Plan" developed by the Contractor in consultation with the Contracting Officer's Technical Representative (COTR) and approved in writing by the Contracting Officer.
- b. Each Program Plan shall be prepared and submitted in accordance with the schedules, funding levels, guidelines and formats approved by the Contracting Officer. In addition to

the program plan, the contractor shall provide NSF with such back-up information as the Foundation may require. Regarding the Program Plan format for reporting, the Contractor shall utilize a Work Breakdown Structure (WBS) to separate the major elements of work under the contract. Each WBS sub-element should be reported in a format similar to the attached chart referenced in Section J titled "Fixed Reimbursables". Funding for the out-years of a multi-year project shall be estimated to the greatest extent possible. However, actual out-year funding will be subject to negotiation in each individual program plan year. Actual cost elements to be reported shall be developed by the contractor in consultation with the COTR.

- c. The Program Plan shall cover the upcoming operational contract year and shall address, but not just limited to, the following;
- Programmatic Goals
 - Field Activities
 - Staffing and Organization Plans
 - Projected Budgets
 - Major Planning Activities
- d. Proposed changes in objectives or activities which alter the nature of the program as described in the Program Plan, and the impact of such proposed changes, will be provided in writing to the COTR and approved in writing by the Contracting Officer, prior to implementation. All proposed Program Plan changes shall be numbered in consecutive order by contract year.
- e. The Contractor may reprogram funds not in excess of \$25,000 during any Program Plan year. Reprogramming changes shall be reported in the next required period status report.

F.4 REPORTING REQUIREMENTS

During the performance of this contract the Contractor shall submit the following reports:

QUARTERLY PROGRESS REPORT AND FINANCIAL STATEMENT -- The Contractor shall prepare and furnish Quarterly Progress and Financial Statement reports. These reports shall show the status of all major events and activities identified in the Contractor's approved program plan and shall report the expenditure of funds for both the period of the report and cumulatively for the entire contract period. The progress report format shall follow the agreed upon WBS structure. Deviation from the expenditure level estimated for each WBS element or sub-element in the approved program plan shall be shown. It shall also present in narrative form a summary of all work performed during the period, including technical status, accomplishments, problems encountered, future plans for the upcoming period, and any action required on the part of the Foundation or another Government agency.

The report shall be submitted within 15 days after the end of the reporting period. Reports are to be forwarded in the specified number of copies to the following destinations:

| No. of Copies | Addressee |
|---------------|---|
| 1 | NSF Contracting Officer (See Block 7 of SF 33) |
| 1 | COTR (Address as designated herein) |

ANNUAL REPORT -- The Contractor shall prepare and submit on an annual basis a report that summarizes the Contractor's performance in each Program Plan year. The report shall identify the strengths and weaknesses in the Program Plan development and implementation. It shall be used as to guide NSF and the Contractor in the preparation of subsequent Program Plans, and be prepared in a format following the agreed upon WBS. The report shall also include a summary of key quantitative factors that are used to measure performance in the Contractor's quality assurance program.

Copies of the report shall be forwarded within 30 days after the end of the Program Plan Year to:

| No. of Copies | Addressee | Address |
|---------------|---------------------|----------------------|
| 1 | COTR | As designated herein |
| 1 | Contracting Officer | See block 7 of SF33 |

PROJECT REPORTS – Reports regarding work undertaken in support of each individual research activity shall be prepared. These reports shall include, but not be limited to, project costs, sketch maps, engineering plans, planning schedules and diaries of event resource allocations and use statistics. For multi-year projects, reports shall be provided annually, and on completion of the project.

Copies of this report shall be forwarded within 30 days after the end of the Project to:

| No. of Copies | Addressee | Address |
|---------------|-----------|---------------|
| 1 | COTR | As designated |

SECTION G - CONTRACT ADMINISTRATION DATA

G.1 INVOICE AND BILLING INFORMATION

In order to initiate payment, the Contractor shall submit proper invoices for reimbursement in the manner and format described herein. One original and three copies are required. The following data must be included in an invoice for it to constitute a proper invoice:

- name of contractor and invoice date;
- contract number, or other authorization for delivery of property or services;
- description, price, fee (if applicable), and quantity of property and services actually delivered or rendered;
- shipping and payment terms;
- name (where practicable), title, phone number, and complete mailing address of responsible official to whom payment is to be sent; and
- other substantiating documentation or information as required by the contract.

The Contractor may use its own form, but all the above information must be on the invoice. However, it is preferred that vouchers be submitted on the Government Standard Form 1034, "Public Voucher for Purchases and Services Other Than Personal - Continuation Sheet." These forms are available from the Government Printing Office, 710 N. Capitol Street, Washington, DC 20801.

Upon completion of the required work, the Contractor shall submit a completion invoice in compliance with the clause entitled, "Allowable Cost and Payment" incorporated by reference in Section I of this contract. This completion invoice must be clearly marked as such and be submitted promptly upon completion of the work, but no later than one year from the completion date of this contract.

The Contractor shall submit the original completion invoice to the Contracting Officer for approval. **All other invoices shall be submitted to the National Science Foundation, Division of Financial Management, Voucher Examination Section, Room 575, 4201 Wilson Boulevard, Arlington, VA 22230.**

G.2 PAYMENT INFORMATION

Payments of invoices and vouchers shall be subject to the withholding provisions of this contract.

Payments under the contract will be made by wire transfer through the Treasury Financial Communications System. The following bank accounting information is required:

- name of the receiving bank;
- city and state of the receiving bank; and
- American Bankers Association (ABA) nine-digit identifier of the receiving bank.

G.3 CONTRACTING OFFICER'S AUTHORITY

The Contracting Officer is the only person authorized to approve changes in any of the requirements under this contract. Notwithstanding any clause contained elsewhere in this contract, the said authority remains solely with the Contracting Officer.

In the event the Contractor effects any change at the direction of any person other than the Contracting Officer, including any change beyond the scope of authority given to the duly authorized Contracting Officer's Technical Representative identified in the contract, the change will be considered to have been made without authority and no adjustment will be made in the contract price to cover any increase in charges incurred as a result thereof. The Contracting Officer has the authority to perform any and all post-award functions in administering and enforcing this contract in accordance with its terms and conditions.

G.4 COTR DESIGNATION AND AUTHORITY

The Contracting Officer has designated Mr. Simon Stephenson as the Contracting Officer's Technical Representative (COTR) under this contract. Mr. Stephenson can be reached at the following address:

Simon Stephenson, COTR
National Science Foundation
Office of Polar Programs, Room 755S
4201 Wilson Boulevard
Arlington, VA 22230
703-306-1032

The COTR is responsible for administering the performance of work under this contract. **IN NO EVENT**, however, will any understanding, agreement, modification, change order, or other matter deviating from the terms of this contract be effective or binding upon the Government unless formalized by proper contractual documents executed by the Contracting Officer prior to completion of the contract.

The COTR may give technical direction to the Contractor which fills in details, requires pursuit of certain lines of inquiry, or otherwise serves to facilitate the Contractor's compliance with the contract. To be valid, technical direction by the COTR:

- must be consistent with the general scope of work set forth in this contract;
- may not constitute new assignment of work nor change the expressed terms, conditions or specifications of this contract; and

- shall not constitute a basis for any increase in the contract estimated cost, or extension to the contract delivery schedule or period of performance.

In the event any Government technical direction is interpreted by the Contractor to fall within the clause of this Contract entitled "Changes", the Contractor shall not implement such direction, but shall notify the Contracting Officer in writing of such interpretation within ten (10) working days after the Contractor's receipt of such direction. Such notice shall:

- include the reasons upon which the Contractor bases its belief that the technical direction falls within the purview of the "Changes" clause; and
- include the Contractor's best estimate as to the revision of the current estimated cost, fee, performance time, delivery schedules or any other contractual provision that would result from implementing the COTR's technical direction.

If, after reviewing the information presented by the Contractor, the Contracting Officer is of the opinion that such direction is within the purview of the "Changes" clause and considers such change desirable, a unilateral direction will be issued to the Contractor to proceed pursuant to the authority granted under that clause. If a determination is made that such direction is technical direction authorized by this schedule clause, the Contractor will be directed to proceed with the implementation of such technical direction.

In the event a determination is made that it is necessary to avoid a delay in performance of the Contract, the Contracting Officer may direct the Contractor to proceed with the implementation of the technical direction pending receipt of the information to be submitted by the Contractor. Should the Contracting Officer later determine that Change direction is appropriate, the written direction issued hereunder shall constitute the required Change direction.

Failure of the Contractor and the Contracting Officer to agree on whether Government direction is technical direction or a Change within the purview of the "Changes" clause shall be a dispute concerning a question of fact within the meaning of the Clause of the General Provision entitled "Disputes."

SECTION H - SPECIAL CONTRACT REQUIREMENTS

H.1 CONSULTANTS

Prior to retention of any consultant(s), other than those which may be included in the offeror's proposal, for the work under this contract, the contractor shall obtain advance written approval from the Contracting Officer. Payments for the services of consultants shall not exceed the current maximum daily equivalent rate paid to a GS-18 federal employee (exclusive of indirect cost, travel, per diem, clerical services, vacation, fringe benefits, and supplies) without the prior written approval of the Contracting Officer. As of January 1999, this rate is \$453 per day. Total payments shall not exceed a total of \$4,530 per consultant during any one twelve month period without the prior written approval of the Contracting Officer.

Requests by the Contractor for authorization to use consultants shall contain the following information:

- a biographical sketch including education and professional experience of the consultant;
- the services the consultant will perform and the amount of time that will be spent;
- previous rates paid to the consultant by the Contractor for similar services for a like period;
- available information on rates charged by the consultant for similar services for a like period.

H.2 SUBCONTRACTING REQUIREMENTS

In addition to the requirements set forth in the clause of this contract entitled "Subcontracts" (see Section I, FAR clause 52.244-2), the Contractor shall not commence the acquisition of any subcontract item or service unless and until funds are obligated under this contract for that item or service, or unless specifically authorized to do so in writing by the Contracting Officer. In accordance with clause 52.244-2, the following subcontracts are hereby listed in accordance with paragraph (k) of the clause and no further consent to subcontract is required by the Contracting Officer. Contractor shall obtain consent as required in accordance with paragraph (d) of the clause for all other required subcontract actions.

1) Subcontract - SRI International
333 Ravenswood Avenue
Menlo Park, CA 94025-3493

2) Subcontract - Polar Field Services

H.3 INSURANCE LIABILITY TO THIRD PARTIES.

(a) (1) Except as provided in subparagraph (2) immediately following, or in paragraph (h) of this clause (if the clause has a paragraph (h)), the Contractor shall provide and maintain workers' compensation, employer's liability, comprehensive general liability (bodily injury), comprehensive automobile (bodily injury and property damage) insurance and such other insurance as the Contracting Officer may require under this contract. **(Refer to H.4 herein)**

(2) The Contractor may, with the approval of the Contracting Officer, maintain a self-insurance program; provided that, with respect to worker' compensation, the Contractor is qualified pursuant to statutory authority.

(3) All insurance required by this paragraph shall be in a form and amount and for those periods as the Contracting Officer may require or approve and with insurers approved by the Contracting Officer.

(b) The Contractor agrees to submit for the Contracting Officer's approval, to the extent and in the manner required by the Contracting Officer, any other insurance that is maintained by the Contractor in connection with the performance of this contract and for which the Contractor seeks reimbursement.

(c) Except as provided in paragraph (h) of this clause (if the clause has a paragraph (h)), the Contractor shall be reimbursed--

(1) For that portion of the reasonable cost of insurance allocable to this contract and required or approved under this clause; and

(2) For certain liabilities (and expenses incidental to such liabilities) to third parties not compensated by insurance otherwise. These liabilities must arise out of the negligence of the Contractor or be approved in writing by the Government. These liabilities are for --

(i) Loss of or damage to property (other than property owned, occupied, or used by the Contractor, rented to the Contractor, or in the care, custody, or control of the Contractor; or

(ii) Death or bodily injury.

(d) The Government's liability under paragraph (c) of this clause is subject to the "Limitation of Funds" or "Limitation of Cost" clause of this contract, whichever is applicable.

(e) The Contractor shall not be reimbursed for liabilities (and expenses incidental to such liabilities)--

(1) For which the Contractor is otherwise responsible under the express terms of any clause specified in the Special provisions or elsewhere in the contract:

(2) For which the Contractor had failed to insure or to maintain insurance as required by the Contracting Officer; or

(3) That result from willful misconduct or lack of good faith on the part of any of the Contractor's directors, officers, managers, superintendents, or other representatives who have supervision or direction of--

(i) All or substantially all of the Contractor's business;

(ii) All or substantially all of the Contractor's operations at any one plant or separate location in which this contract is being performed; or

(iii) A separate and complete major industrial operation in connection with the performance of this contract.

(f) The provisions of paragraph (e) of this clause shall not restrict the right of the Contractor to be reimbursed for the cost of insurance maintained by the Contractor in connection with the performance of this contract, other than insurance required in accordance with this clause; provided that such cost is allowable under the Allowable Cost and Payment clause of this contract.

(g) If any suit or action is filed or any claim is made against the Contractor, the cost and expense of which may be reimbursable to the Contractor under this contract and the risk of which is then uninsured or is insured for less than the amount claimed, the contract shall--

(1) Immediately notify the Contracting Officer and promptly furnish copies of all pertinent papers received.

(2) Authorize Government representatives to collaborate with counsel for the insurance carrier in settling or defending the claim when the amount of the liability claimed exceeds the amount of coverage; and

(3) Authorize Government representatives to settle or defend the claim and to represent the Contractor in or to take charge of any litigation, if required by the Government, when the liability is not insured or covered by bond. The Contractor may, at its own expense, be associated with the Government representatives in any such claim or litigation.

H.4 LIABILITY INSURANCE.

The Contractor warrants that insurance coverage (currently in force) exists in the following areas and in amounts not less than those specified below:

| | Type | Per Person | Coverage Property | Insurance Per Accident |
|----|--|------------|-------------------|------------------------|
| 1. | Comprehensive General Liability | \$500,000 | \$500,000 | \$1,500,000 |
| 2. | Automobile | \$500,000 | \$500,000 | \$1,000,000 |
| 3. | A supplemental umbrella policy for \$5,000,000. | | | |
| 4. | Workman's Compensation - As required by law at the job site. | | | |

The Comprehensive general and automobile liability policies shall contain a provision worded as follows:

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

The contractor shall file with the Contracting Officer prior to beginning performance under this contract, a certificate of insurance evidencing the above coverage.

The Contractor shall provide to the Contracting Officer within five (5) days after occurrence, notice of cancellation of or reductions below the above cited amounts of any insurance coverage related to this requirement.

The Contractor warrants that such insurance coverage for all subcontractors who will work at any of the sites of performance does or will exist before subcontractors begin performance.

H.5 LIMITED USE OF DATA AND INFORMATION

Performance of this contract may require the Contractor to access data and information proprietary to a Government agency or Government Contractor and/or such a nature that its dissemination or use, other than in performance of this contract, would be adverse to the interest of the government and/or others.

Contractor and/or Contractor personnel shall not divulge or release data or information developed or obtained in performance of this contract, until made public by the Government, except to authorized Government personnel or upon written approval of the NSF Contracting Officer. The Contractor shall not use, disclose or reproduce proprietary data that bears a restrictive legend, other than as required in the performance of this contract. Nothing herein shall preclude the use of any data independently acquired by the Contractor without such limitations or prohibit an agreement at no cost to the Government between the Contractor and the data owner which provides for greater rights to the Contractor.

H.6 TRANSITION

The Contractor may be replaced by a successor Contractor for the performance of requirements of a similar nature and scope as the requirements specified herein. The Contractor shall cooperate to effect an orderly and efficient transition to any such successor Contractor during a transition period to be specified by the Contracting Officer.

H7. YEAR 2000 WARRANTY

The Contractor warrants that each hardware, software, and firmware product delivered under this contract and/or listed below shall be able to accurately process date data (including, but not limited to, calculating, comparing, and sequencing) from, into, and between the twentieth and twenty-first centuries, including leap year calculations, when used in accordance with the product documentation provided by the Contractor, provided that all listed or unlisted products (e.g. hardware, software, firmware) used in combination with such listed product properly exchange date data with it. If the contract requires that specific listed products must perform as a system in accordance with the foregoing warranty, then that warranty shall apply to those listed products as a system. The duration of this warranty and the remedies available to the Government for breach of this warranty shall be defined in, and subject to, the terms and limitations of the contractor's standard commercial warranty or warranties contained in this contract, provided that notwithstanding any provision to the contrary in such commercial warranties, the remedies available to the Government shall include repair or replacement of any listed product whose non-compliance is discovered and made known to the contractor in writing within ninety (90) days after acceptance. Nothing in this warranty shall be construed to limit any rights or remedies the Government may otherwise have under this contract with respect to defects other than Year 2000 performance.

H.8 NSF BUSINESS HOURS, HOLIDAYS AND LEAVE

The normal business hours of the National Science Foundation (NSF) are 7:00am through 6:00pm EST, Monday through Friday excluding federal holidays and periods approved for general administrative leave.

Federal holidays observed by the NSF are New Year's Day, Martin Luther King Birthday, Inauguration Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans Day, Thanksgiving Day, Christmas Day, and any other day designated by federal statute, Executive Order, or Presidential Proclamation. When any such day falls on a Saturday, the preceding Friday is observed; or if any such day falls on a Sunday, the following Monday is observed.

Except as specified elsewhere in this contract, the Contractor shall perform any services required to be performed at NSF's site(s) during normal business hours.

H.9 CONDUCT OF CONTRACTOR EMPLOYEES

The Contracting Officer may request that any agent or employee of the Contractor whose conduct interferes with proper discipline on the Government site where services are performed, be removed from such site and the Contractor shall comply with such request. Failure to do so will be cause for action under the FAR clause entitled "Termination-Cost Reimbursement"

H.10 KEY PERSONNEL

The personnel positions listed below are considered essential to the work being performed hereunder. Prior to removing, replacing, or diverting any of the specified individuals in these positions, the Contractor shall notify the Contracting Officer reasonably in advance and shall submit justification (including proposed substitutions) in sufficient detail to permit evaluation of the impact of such substitution upon the successful performance of the contract. No diversion shall be made by the Contractor without the written consent of the Contracting Officer; provided, the Contracting Officer may ratify the change in writing, and such ratification shall constitute the consent of the Contracting Officer required by this clause. Positions may be added or deleted from this clause during performance of the contract by mutual agreement of both parties.

| <u>Key Personnel Positions</u> | <u>Name</u> | <u>% Individuals Time on Contract</u> |
|--------------------------------|-------------|---------------------------------------|
| Project Director | _____ | 100% |
| PFS Project Manager | | 100% |
| Planning and Controls Mgr. | | 100% |
| Logistics Manager, Greenland | | 100% |
| Logistics Manager, Alaska | _____ | 100% |

H.11 SMALL BUSINESS SUBCONTRACTING PLAN

The subcontracting plan submitted by the Contractor and approved by the Contracting Officer is hereby made a part of this contract and is incorporated by reference herein.

In addition, the SDB participation targets provided by the contractor in the BAFO proposal dated October 29, 1999 are hereby incorporated by reference. The contractor shall report annually on the extent of SDB participation in contract performance as required by FAR clause 52.219-25, incorporated by reference herein. Attachment 3, OF 312, may be used for this reporting requirement.

The Contractor shall establish and maintain a Subcontracting Plan acceptable to the Contracting Officer which shall be attached and made a material part of any contract resulting under this solicitation. **Failure on the part of any prospective awardee to submit an acceptable subcontracting plan shall render that offeror ineligible for award.**

The Contractor shall submit quarterly SF 295 reports and semi-annual SF 294 reports to the Contracting Officer per the instructions on the back of the forms. Regardless of this contract's effective date, the SF 294 reports must be received not later than April 25th and October 25th, as well as at contract completion.

H.12 GOVERNMENT FURNISHED PROPERTY

Pursuant to the clause entitled "Government Property (Cost Reimbursement, Time and Material, or Labor-Hour Contracts)" incorporated herein, certain property from time to time may be made available to the Contractor for use in the performance of this contract. This property shall be used, controlled, recorded and reported in a manner consistent with the clause and the terms and conditions and specifications of this contract.

On June 30th of each contract year, the Contractor shall submit to NSF an inventory of Government-owned property. The report shall be in any format, but shall include all items of capitalized equipment valued at \$5,000.00 or more, except that it may also include some sensitive items under \$5,000.00 which have a life expectancy of two years or more, as a means of controlling such property.

This report shall be broken down according to GSA Federal Supply Class Number, and shall also include totals for each GSA class, and a grand total.

Reports shall be submitted in two copies to:

1 Copy to: Contracting Officer
National Science Foundation

1 Copy to: National Science Foundation
DAS-Property Section
4201 Wilson Boulevard
Arlington, VA 22230

H.13 CLEARANCE AND CONSTRAINTS

Notwithstanding any other provision of this contract, at any point in the conduct of this project where NSF approval is required, NSF will endeavor to notify the contractor within ten (10) working days of receipt of a contractor's request as to its approval or disapproval. Failure of NSF to respond within the ten (10) working day period shall **NOT** constitute approval.

SECTION I - CONTRACT CLAUSES

1.1 52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

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

WWW.ARNET.GOV

NOTICE LISTING CLAUSES INCORPORATED BY REFERENCE

Federal Acquisition Regulations (48 CFR Chapter 1) Clauses

| | | |
|-----------|--|----------|
| 52.202-1 | DEFINITIONS | OCT 1995 |
| 52.203-3 | GRATUITIES | APR 1984 |
| 52.203-5 | COVENANT AGAINST CONTINGENT FEES | APR 1984 |
| 52.203-6 | RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT | JUL 1995 |
| 52.203-7 | ANTI-KICKBACK PROCEDURES | JUL 1995 |
| 52.203-8 | CANCELLATION, RECISSION, AND RECOVERY OF FUNDS FOR ILLEGAL OR IMPROPER ACTIVITY | JAN 1997 |
| 52.203-10 | PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR IMPROPER ACTIVITY | JAN 1997 |
| 52.203-12 | LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS | JAN 1990 |
| 52.204-2 | SECURITY REQUIREMENTS | AUG 1996 |
| 52.204-4 | PRINTING/COPYING DOUBLE-SIDED ON RECYCLED PAPER | JUN 1996 |
| 52.208-8 | HELIUM REQUIREMENT FORECASTS AND REQUIRED SOURCES FOR HELIUM | JUN 1997 |

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|--|--|-----------|
| 52.209-6 | PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT | JUL 1995 |
| 52.211-5 | MATERIAL REQUIREMENTS | OCT 1997 |
| 52.215-2 | AUDIT AND RECORDS--NEGOTIATION | AUG 1996 |
| 52.215-8 | ORDER OF PRECEDENCE - UNIFORM CONTRACT FORMAT | OCT 1997 |
| 52.215-10 | PRICE REDUCTION FOR DEFECTIVE COST OR PRICING DATA | OCT 1997 |
| 52.215-11 | PRICE REDUCTION FOR DEFECTIVE COST OR PRICING DATA- MODIFICATIONS | OCT 1997 |
| 52.215-12 | SUBCONTRACTOR COST OR PRICING DATA | OCT 1997 |
| 52.215-13 | SUBCONTRACTOR COST OR PRICING DATA - MODIFICATIONS | OCT 1997 |
| 52.215-15 | PENSION ADJUSTMENTS AND ASSET REVERSIONS | DEC 1998 |
| 52.215-17 | WAIVER OF FACILITIES CAPITAL COST OF MONEY | OCT 1997 |
| 52.215-18 | REVERSION OR ADJUSTMENT OF PLANS FOR POST-RETIREMENT BENEFITS OTHER THAN PENSIONS | OCT 1997 |
| 52.215-19 | NOTIFICATION OF OWNERSHIP CHANGES | OCT 1997 |
| 52.216-7 | ALLOWABLE COST AND PAYMENT | APR 1998 |
| 52.216-8 | FIXED FEE | MAR 1997* |
| 52.216-11 | COST CONTRACT - NO FEE | APR 1984* |
| 52.216-15 | PREDETERMINED INDIRECT COST RATES | APR 1998* |
| (*Clause(s) that apply will depend on type of organization selected for award) | | |
| 52.217-8 | OPTION TO EXTEND SERVICES | AUG 1989 |

| | | |
|-----------|---|----------|
| 52.219-8 | UTILIZATION OF SMALL BUSINESS CONCERNS | JAN 1999 |
| 52.219-9 | SMALL BUSINESS SUBCONTRACTING PLAN | JAN 1999 |
| 52.219-23 | NOTICE OF PRICE EVALUATION ADJUSTMENT FOR SMALL DISADVANTAGED BUSINESS CONCERNS (Paragraph (b) ___10%___) | OCT 1998 |
| 52.219-25 | SMALL DISADVANTAGED BUSINESS PARTICIPATION PROGRAM – DISADVANTAGED STATUS AND REPORTING | JAN 1999 |
| 52.222-3 | CONVICT LABOR | AUG 1996 |
| 52.222-20 | WALSH-HEALY PUBLIC CONTRACTS ACT | DEC 1996 |
| 52.222-24 | PREAWARD ON-SITE EQUAL OPPORTUNITY COMPLIANCE EVALUATION | FEB 1999 |
| 52.222-26 | EQUAL OPPORTUNITY | FEB 1999 |
| 52.222-29 | NOTIFICATION OF VISA DENIAL | FEB 1999 |
| 52.222-35 | AFFIRMATIVE ACTION FOR DISABLED VETERANS AND VETERANS OF THE VIETNAM ERA | APR 1998 |
| 52.222-36 | AFFIRMATIVE ACTION FOR WORKERS WITH DISABILITIES | JUN 1998 |
| 52.222-37 | EMPLOYMENT REPORTS ON SPECIAL DISABLED VETERANS AND VETERANS OF THE VIETNAM ERA | JAN 1999 |
| 52.223-2 | CLEAN AIR AND WATER | APR 1984 |
| 52.223-3 | HAZARDOUS MATERIAL IDENTIFICATION AND MATERIAL SAFETY DATA | JAN 1997 |
| 52.223-5 | POLLUTION PREVENTION AND RIGHT-TO-KNOW INFORMATION | APR 1998 |
| 52.223-6 | DRUG-FREE WORKPLACE | JAN 1997 |
| 52.223-10 | WASTE REDUCTION PROGRAM | OCT 1997 |

| | | |
|--|---|-----------|
| 52.223-14 | TOXIC CHEMICAL RELEASE REPORTING | OCT 1996 |
| 52.224-1 | PRIVACY ACT NOTIFICATION | APR 1984 |
| 52.224-2 | PRIVACY ACT | APR 1984 |
| 52.225-11 | RESTRICTIONS ON CERTAIN FOREIGN PURCHASES | AUG 1998 |
| 52.227-1 | AUTHORIZATION AND CONSENT | JUL 1995 |
| 52.227-2 | NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT | AUG 1996 |
| 52.227-11 | PATENT RIGHTS-RETENTION BY THE CONTRACTOR – (SHORT FORM) | JUN 1997 |
| 52.230-2 | COST ACCOUNTING STANDARDS | APR 1998* |
| 52.230-5 | COST ACCOUNTING STANDARDS – EDUCATIONAL INSTITUTIONS | APR 1998* |
| (*Clause(s) that apply will depend on type of organization selected for award) | | |
| 52.230-6 | ADMINISTRATION OF COST ACCOUNTING STANDARDS | APR 1996 |
| 52.232-9 | LIMITATION ON WITHHOLDING OF PAYMENTS | APR 1984 |
| 52.232-17 | INTEREST | JUN 1996 |
| 52.232-22 | LIMITATION OF FUNDS | APR 1984 |
| 52.232-23 | ASSIGNMENT OF CLAIMS | JAN 1986 |
| 52.232-25 | PROMPT PAYMENT (Para. (a)(5)(1) ___ 30 days ___) | JUN 1997 |
| 52.232-33 | MANDATORY INFORMATION FOR ELECTRONIC FUNDS TRANSFER PAYMENTS | AUG 1996 |
| 52.233-1 | DISPUTES | DEC 1998 |
| 52.233-3 | PROTEST AFTER AWARD-ALT I (JUNE 1985) | AUG 1996 |

| | | |
|-----------|--|----------|
| 52.237-2 | PROTECTION OF GOVERNMENT BUILDINGS, EQUIPMENT, AND VEGETATION | APR 1984 |
| 52.237-3 | CONTINUITY OF SERVICES | JAN 1991 |
| 52.239-1 | PRIVACY OR SECURITY SAFEGUARDS | AUG 1996 |
| 52.242-1 | NOTICE OF INTENT TO DISALLOW COSTS | APR 1984 |
| 52.242-3 | PENALTIES FOR UNALLOWABLE COSTS | OCT 1995 |
| 52.242-4 | CERTIFICATION OF FINAL INDIRECT COSTS | JAN 1997 |
| 52.242-13 | BANKRUPTCY | JUL 1995 |
| 52.243-2 | CHANGES - COST-REIMBURSEMENT -- ALTERNATE II (APR 1984) | AUG 1987 |
| 52.244-2 | SUBCONTRACTS - ALTERNATE II(AUG 1998) | AUG 1998 |
| 52.244-5 | COMPETITION IN SUBCONTRACTING | DEC 1996 |
| 52.245-5 | GOVERNMENT PROPERTY(COST REIMBURSEMENT, TIME & MATERIAL, OR LETTER CONTRACTS) | JAN 1986 |
| 52.245-19 | GOVERNMENT PROPERTY FURNISHED "AS IS" | APR 1984 |
| 52.246-25 | LIMITATION OF LIABILITY - SERVICES | FEB 1997 |
| 52.247-63 | PREFERENCE FOR US-FLAG AIR CARRIERS | JAN 1997 |
| 52.247-64 | PREFERENCE FOR PRIVATELY OWNED US-FLAG COMMERCIAL VESSELS | JUN 1997 |
| 52.247-67 | SUBMISSION OF COMMERCIAL TRANSPORTATION BILLS TO THE GENERAL SERVICES ADMINISTRATION FOR AUDIT | JUN 1997 |
| 52.248-1 | VALUE ENGINEERING | MAR 1989 |

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|-----------|--|-----------|
| 52.249-5 | TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (EDUCATIONAL AND OTHER NONPROFIT INSTITUTIONS) | SEP 1996* |
| 52.249-6 | TERMINATION (COST-REIMBURSEMENT) (*Clause(s) that apply will depend on type of organization selected for award) | SEP 1996* |
| 52.249-14 | EXCUSABLE DELAYS | APR 1984 |
| 52.251-1 | GOVERNMENT SUPPLY SOURCES | APR 1984 |
| 52.253-1 | COMPUTER GENERATED FORMS | JAN 1991 |

1.2 FAR CLAUSES INCORPORATED BY FULL TEXT

1) 52.229-8 TAXES-FOREIGN COST REIMBURSEMENT CONTRACTS (MAR 1990)

- (a) Any duty or tax from which the United States Government is exempt by agreement with the Government of Greenland, New Zealand, or other Governments that the US Government may enter into an agreement with, or from which the Contractor or any subcontractor under this contract is exempt under the laws of Greenland or New Zealand or any other Government, shall not constitute an allowable cost under this contract.
- (b) If the contractor or subcontractor under this contract obtains a foreign tax credit that reduces its Federal income tax liability under the United States Internal Revenue Code (Title 26, US Code) because of the payment of any tax or duty that was reimbursed under this contract, the amount of the reduction shall be paid or credited at the time of such offset to the Government of the United States as the Contracting Officer directs.

1.3 NSF ACQUISITION REGULATION-CLAUSE(S) INCORPORATED BY FULL TEXT

1) RIGHTS IN DATA (APR 1984)

(a) Subject Data

- (i) The term "Subject Data" as used herein includes writings, information stored in any form, sound recordings, computer programs, pictorial reproductions, drawings, or other graphic representations and works of any similar nature which are first generated, produced or composed in the performance of this contract, whether delivered or not under this contract.
- (ii) All Subject Data shall be the sole property of the Foundation. The Contractor shall not publish, reproduce, distribute or otherwise make disposition of such Subject Data in whole or in part or in any manner or form, or authorize others to do so without the prior written consent of the Contracting Officer or until such time as the Government may have released such Subject Data to the public.

(b) Other Data

(i) The term "Other Data" as defined herein includes writings, information stored in any form, sound recordings, computer programs, pictorial reproductions, drawings, or other graphic representations and works of any similar nature, not generated, produced, or composed for the first time in the performance of this contract, whether or not copyrighted, which are delivered under this contract.

(ii) The Government may duplicate, use and disclose in any manner and for any purpose whatsoever, and have others so do, all or any part of the Other Data delivered by the Contractor to the Government under this contract except as provided by subparagraph (b)(ii)(A) below.

(A) Material Covered by Copyright. The Contractor agrees to and does hereby grant to the Government, and to its officers, agents, and employees acting within the scope of their official duties, a royalty-free, non-exclusive and irrevocable license, throughout the world for Government purposes to publish, translate, reproduce, deliver, perform, dispose of, and to authorize others to do so, all Other Data now or hereafter covered by copyright. No such copyrighted matter shall be included in Other Data furnished hereunder without the written permission of the copyright owner for the Government to use such copyrighted matter in the manner described in this subparagraph (b)(ii)(A).

(c) The terms "Subject Data" and "Other Data" as defined herein do not include financial reports, cost analyses and similar information incidental to contract administration.

(d) The Contractor shall report to the Government promptly and in reasonable written detail each notice or claim of copyright infringement received by the Contractor with respect to any technical data delivered hereunder.

2) PATENT RIGHTS (APR 1992)

(NSF's Patent Rights Clause duplicates the clause contained at 37 CFR 401.12)

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SECTION J - LIST OF ATTACHMENTS

J.1 LISTING OF ATTACHMENTS

These documents are attached and are made a part of this solicitation/award:

| <u>Document</u> | <u>Date</u> | <u>No. of Pages</u> | <u>Solicitation Section (if applicable)</u> |
|--|-------------|---------------------|---|
| 1. Statement of Work | N/A | See SOW | C |
| 2. SF 1411, "Contract Pricing Proposal Cover Sheet" | 10-95 | 1 | L |
| 3. OF 312, "Small Disad. Business (SDB) Participation Report | 1-99 | 1 | N/A |
| 4. Staffing Schedule | N/A | 1 | L |
| 5. Fixed Reimbursables | N/A | 1 | B, L |
| 6. Medical Forms | N/A | 8 | N/A |
| 7. Materials Available for Inspection | N/A | * | N/A |
| 8. Government Furnished Property | N/A | * | H |
| 9. Client Letter: Offerors should send their listed private sector references a letter authorizing the reference(s) to provide past performance information to NSF. An example of the client authorization letter is provided at Attachment 9. | | | |
| 10. Contractor Performance Evaluation: A copy of the contractor performance evaluation questionnaire (survey) that may be used to record the information received from references is provided as Attachment 10. | | | |
| 11. Contract Listing Form – Attachment 11 is the format for listing each and every completed and on-going contract within the required timeframe. | | | |
| 12. Model Projects | N/A | 4 | L |

ARCTIC RESEARCH SUPPORT & LOGISTICS CONTRACT

DESCRIPTION/SPECIFICATION/WORK STATEMENT

SCOPE OF WORK

The scope of work is to provide logistics and research support for NSF-sponsored projects, and other projects as directed by NSF.

The contractor's effort in support of NSF's Arctic Science section will focus on providing operational and logistic functions to NSF funded research projects usually based at United States academic institutions and conducted throughout the Arctic. The contractor will work with NSF, principal investigators, other state and federal agencies, international organizations having agreements with NSF, and organizations that own/manage logistics resources and facilities in the Arctic to provide operational plans to support research projects. NSF will require support to be coordinated for projects to enhance the efficiency and cost-savings to be gained in lieu of support for individual projects through arrangements by principal investigator(s). The contractor will seek to minimize the environmental impact of work performed and advise researchers for whom support is provided about applicable environmental law. The contractor will carry out all work under the applicable environmental law and comply with the "Principles for the Conduct of Research in the Arctic". Permits for installation and use of the sites used by the contractor are the responsibility of the contractor, and the contractor shall provide information to researchers to facilitate their permit requests for conducting research projects.

BACKGROUND

In 1973 the National Science Foundation's Office of Polar Programs (formerly the Division of Polar Programs) made the decision to consolidate under one management structure the U.S. operation of ice-drilling equipment at both poles and high latitude locations along with the planning for logistical support/coordination of ice core drilling. In October 1974 the University of Nebraska-Lincoln (UN-L) established the Polar Ice Coring Office (PICO) under a contract with NSF. PICO was responsible for organizing logistical support for ice core projects in Greenland.

In 1988 the PICO contract was competed and awarded to the University of Alaska-Fairbanks (UAF). This contract essentially continued all drilling and Arctic logistics activities under the previous contract but PICO's activities expanded to include the logistical support for a number of non-ice coring projects sponsored by NSF and other U.S. government agencies.

In 1993 the contract was competed and awarded to UN-L in 1994. This contract separated the ice-core drilling activities (principally conducted in Antarctica) from the Arctic logistics activities. The identification of activities under the previous contracts are identified as PICO activities, however, this solicitation is for Arctic logistics and science support activities only.

The major PICO Arctic logistics and science support activities (both UN-L and UAF contracts) since 1993 are discussed below by geographic region:

GREENLAND

Research projects that continue to utilize the site of the Greenland Ice Sheet Project Two (GISP2) near the summit of the ice cap at approximately 10,600 feet elevation are supported from a logistics base at the Kangerlussuaq International Science Support (KISS) center located at the former Sondrestrom Air Base. Delivery of personnel and cargo to KISS is accomplished using both scheduled commercial aircraft and LC-130s operated by the New York Air National Guard (NYANG/109th TAG). NYANG LC-130s and leased small ski-equipped fixed-wing aircraft are used to service the Summit research station. Access to NYANG LC-130's has been arranged through the USAF Air Mobility Command (AMC). The summit site

Attachment 7 to CPO-99-005
Award # OPP-0001041

pg 1 of 6

is also used as a base for remote snowmobile traverses and support of atmospheric/meteorological stations up to several 10s of km from the site.

Occasional remote seasonal field camps and an annual training skiway for the NYANG have been located at various locations on the ice cap. Those activities have been supported from KISS or Thule Air Base (TAB) depending on practical logistics considerations. Access to TAB is controlled by the USAF Space Command. Remote camps have been supported from TAB and KISS using NYANG LC-130s and leased aircraft.

Long-term removable housing, laboratory, and associated logistics facilities have been designed, installed, and maintained at the Summit site by PICO. All remote field station facilities and necessary field equipment is owned by NSF and stored at Summit, KISS, TAB, or UN-L. Equipment stored at KISS is in facilities leased from the Danish Polar Center.

ALASKA

Research projects have been supported at numerous locations on the North Slope of Alaska. Prudhoe Bay (Deadhorse Airport), Barrow, Atkasuk, and recently Nome have been used as either a research site or point of departure for remote field sites and are accessible through scheduled commercial aircraft. Prudhoe Bay is also accessible via the Dalton Highway from Fairbanks.

Much of the activity is centered at the Toolik Field Station (TFS) located adjacent the Dalton Highway and managed by the Institute of Arctic Biology (IAB) of UAF. Activities at Barrow are conducted largely at the Barrow Environmental Observatory (BEO) and laboratories/buildings owned by the Ukpeagvik Inupiat Corporation (UIC) and managed through the Barrow Arctic Science Committee (BASC). Commercial facilities are used in Atkasuk and Nome. A major upgrade of the TFS is underway in cooperation with IAB/UAF. New laboratory, housing, storage, electrical, drainage, and waste facilities have been designed and installed on site.

Remote field camps have at various times been established at Happy Valley (adjacent the Dalton Highway), Ivotuk (at the foot of the Brooks Range), and Council (Seward Peninsula). Necessary field gear to support activities at remote sites is owned by NSF and stored in Alaska or at UN-L.

PLANNED AND FUTURE ACTIVITIES

Ongoing activities similar to those supported in the past are expected in both Alaska, Greenland, and other countries. Most future requirements will depend largely on the nature of support requested in submitted proposals. NSF expects to receive proposals for enhanced activities in Alaska and Greenland as well as projects outside of those two areas that will require support from the contractor. The expanded activity includes tasking the contractor to support individual research projects requiring air, ground, and small boats at sites throughout the Arctic but especially in Alaska. NSF will task the contractor to coordinate support requirements for some projects and directly support other projects where, in the opinion of NSF, enhanced efficiency, safety, and reduced cost of the projects may be accomplished.

Logistics support may be required from the contractor in other countries. Such arrangements would operate under a bi-lateral or multi-lateral Memorandum of Agreement between or among government agencies. The contractor would provide operational level planning, liaison with the cooperating country/agency and expertise in international logistics.

NSF expects to support activities that address the needs identified by the scientific community and the Arctic Research Commission. Examples of those activities are included in the following publications:

1. Toolik Field Station: The Second 20 Years, 1996, Arctic Research Consortium of the U.S. (ARCUS), Fairbanks, AK. (available at <http://www.arcus.org/TFS/TFS.html>).

2. Logistics Recommendations for an Improved U.S. Arctic Research Capability, 1997, United States Arctic Research Commission, published by ARCUS. (available at <http://www.arcus.org/Logistics/Logistics.html>)

NSF also expects to task the contractor to support a wide range of activities proposed in response to a new program solicitation:

3. Long-term Observations in the Arctic, Program Solicitation NSF99-101 (available on the NSF Home Page). (available at <http://www.nsf.gov/cgi-bin/getpub?nsf99101>).

Many of the recommended upgrades of TFS (see Appendix 3 in publication 1) have been, or will be, completed in the current contract period. For example, all of the upgrades in the categories: *Projects currently underway* and *Immediate improvements recommended to meet existing needs* have or will be completed except for the shipping/receiving/storage building. Additionally, lab facilities and a second living unit from the other categories will be completed in the current contract period. Also two T-1 fiber optic lines and associated electronic equipment will be operational for full access to the Internet.

Recommended logistics upgrades in publication 2 (see Chapter 4) include activities beyond those NSF expects to support solely through the contract. NSF does expect, however, to implement those recommendations appropriate to the contract activities at sites of NSF-support research projects, especially those described in publication 3.

STATEMENT OF WORK

- Provide an administrative structure (address or describe this plan (or process) in the Concept of Operations - Project Management Plan section)

The contractor must provide a staff and office environment for the administrative requirements of this contract. The contractor must maintain an administrative staff capable of providing NSF with budget estimates for proposed or planned activities. The administrative staff should have the expertise to implement or supervise each element of the work-plan. The staff must implement subawards and purchase needed equipment, supplies, and services and ensure their delivery to Arctic locations.

The contractor shall work within the cycle of NSF's grant award process. Researchers are expected to prepare a proposal that is a complete description of the work to be undertaken and the cost to complete it. NSF recognizes, however, that it is not always possible to develop a complete operating plan at the time of proposal preparation although the scale of support should be known at the time of the merit review. [The contractor may be involved in informal discussions with the investigator concerning project feasibility and the development of cost estimates prior to submission of the proposal to NSF.] If the proposal is selected for support by NSF, then tasking of the contractor will be through a tasking letter and the subsequent development of an operating plan by the contractor, in conjunction with NSF and the investigator. NSF (OPP/Arctic) has proposal deadlines of February 15 and August 1 but occasionally may have other deadlines during the year. A tasking letter to the contractor will be developed by November, and a program plan to cover the fiscal year will be developed by the contractor no later than the following January.

The contractor is expected to support outreach efforts by researchers and NSF personnel to inform and involve Arctic residents of research plans and results.

The contractor should have the capability to establish a quality assurance program using quantitative factors to assist in focusing on and documenting systematic improvements to services in the context of the Government Performance and Results Act.

- Determine requirements and cost estimates for operational support of projects (address or describe this plan (or process) in the Concept of Operations - Project Management Plan section)

The contractor will be required to determine the field support needs of individual research programs identified by NSF and implement the most efficient and cost-effective means to provide the requested support. An estimated budget for providing all of the support requests by investigators must be developed by the contractor for NSF review. The contractor should have the capability to design a system that is fully interactive with the investigator and NSF so that support activities requested of the contractor by the investigator may be easily transmitted to NSF with budget estimates. The system should have the capability for modifications to planned support activities as identified by NSF, the contractor or investigator as well as notification to all parties of the final approved support plan.

- Movement of personnel and supplies (address or describe this plan (or process) in the Concept of Operations - Field Operations Plan section)

The contractor must position NSF equipment and contractor personnel at the research sites and support research personnel in the field. The contractor must provide staff to facilitate movement of cargo and personnel to the field site and maintain appropriate means for communication to ensure flexibility and safety at remote sites. NSF requires investigators to use commercial airfare to transport personnel and field supplies as close to the research site as possible. The contractor will be required only to transport scientific personnel and their supplies from the point of delivery to the field location and support the researchers at the site. In the case of activities in Greenland, the point of departure is Stratton Air Base, Scotia, NY. In the case of Alaska, several commercial airports may be used depending on the location of the field work. Research in other locales should be conducted using the same model. The contractor should have the capability to describe an efficient system to support research conducted at a variety of Arctic sites where an existing infrastructure exists to serve as a hub for logistics support.

- Storage and maintenance of equipment and supplies (address or describe this plan (or process) in the Concept of Operations - Project Management Plan section)

Currently NSF equipment is stored in Greenland, Alaska and at the current contractor's offices in Lincoln, NE. A field equipment storage/dispersal system is required in order to maintain efficiency, flexibility, and cost-effective support of field programs at widely dispersed sites for projects throughout North America and Greenland. The contractor should have the capability to design a system to position equipment in the most cost efficient location(s) while maintaining flexibility to place NSF equipment where it will be used in the field. All equipment must be maintained, repaired, and serviced.

- Develop and support facilities, including field camps (address or describe this plan (or process) in the Concept of Operations - Field Operations Plan section)

Current and continuing activities in Greenland include maintenance of a field office at KISS, support of summer season research projects at Summit, maintenance of the equipment inventory in the most accessible and cost-efficient location, yearly installation of a summer season NYANG skiway at the Summit site and a training skiway near the former Dye 2 early warning radar site, and maintenance of the facilities at the Summit site. NSF will require support of a winter research program at Summit using the current facilities on site or expanded facilities similar to those on site if international support for research at Summit is forthcoming. The contractor shall provide a plan and anticipated costs for doubling the current infrastructure at the Summit site and any additional infrastructure required to support year-round activities.

Current and continuing activities in Alaska will be conducted at TFS, Prudhoe Bay, Seward Peninsula, Atkasuk, and other sites throughout Alaska as identified in research proposals. The costs borne by the contractor vary depending on the type of site and the individual arrangements made by NSF.

1. The contractor is required only to reimburse the operator of TFS for the daily per person charge, and pay for partial season helicopter support and build boardwalks at individual research sites to protect the tundra from foot traffic. [Facilities design and construction at TFS are described in another section.]
2. The contractor is required to support room/board, and ground transportation at

Alaska sites such as Prudhoe Bay, Atkasuk, and other locations where commercial facilities are available. **Support for research at Barrow is not included in this contract.**

3. The contractor will be required to support equipment requests for field camps for individual projects anywhere in Alaska as well as providing full support, including camp management, for large full summer-season remote camps on the Alaska North Slope.

4. The contractor will be tasked to provide helicopter or small boats to in a wide variety of places to establish and support projects involving large groups requiring full summer season use as well as individual projects requiring intense operational periods for access to sample sites or deployment and demobilization of field camps. A plan should be developed each year that shows how cost savings could be implemented through shared use at as many sites as possible.

- Design, Fabricate, and Install Equipment or Facilities (address or describe this plan (or process) in the Concept of Operations - Engineering and Design Plan section)

Design, delivery, construction and installation of additional facilities at TFS and Summit are expected. NSF expects to consider the remaining enhancements at TFS (listed in publication 1 referenced above) as well as a doubling of the Summit station in conjunction with international partners. The establishment of Environmental Observatories in response to Program Announcement NSF99-101 (see publication 3 above) may require establishing facilities at remote sites or enhancing facilities at existing sites anywhere in the Arctic. The contractor must have the capability to implement construction projects that provide improvements or new facilities for logistics or science laboratories at remote or permanent sites in a variety of arctic locations.

Proposals submitted in response to NSF99-101 may also require installation of remote/autonomous instrumentation in a wide variety of arctic locations. The contractor should have the capability to provide a plan for providing the expertise to design, install, operate, and maintain scientific instrumentation in a variety of arctic environments.

- Provide information on support capabilities and requirements (address or describe this plan (or process) in the Concept of Operations - Field Operations Plan section)

The contractor shall maintain a strong liaison with the US scientific community and the international Arctic logistics community. This shall involve, but not be limited to:

1. Responding to investigators inquiry's about logistics and research support capabilities.
2. Maintaining an informative web site on current capabilities, with examples of recent work completed.
3. Attendance at appropriate scientific workshop and conferences.
4. Recommendation of improvements to services provided by advances in technology or changes in scientific requirements identified by researchers.
5. Coordination of planning with appropriate international organizations.

The contractor will maintain a strong liaison with the NYANG and attend its Arctic Planning Conference annually. The contractor will be expected to work directly with the NYANG to plan and implement use of the LC-130s for delivery of personnel and cargo to/from/within Greenland.

The contractor will conduct after-operations meetings, where appropriate, for the evaluation of previous support and planning for future research projects involving support provided by the contractor. The contractor should have the capability to have personnel capable of understanding the basic scientific issues that drive the selection of appropriate logistics capabilities to match the requirements identified by the investigators and NSF.

- Provide means for transfer of information between sites and institutions (address or describe this plan (or process) in the Concept of Operations - Project Management Plan section)

Communication between research sites and between home institutions and research sites is becoming an increasingly important component of arctic research. Transfer of data from remote/autonomous field instruments to operators who can manage the data collection/transfer remotely or respond in a timely fashion to maintenance requirements is essential. In the current contract, two field stations, TFS and Summit, are being connected to the Internet through fiber optic cable and an Earth station, respectively. One remote station at Prudhoe Bay is connected through a cell phone. Researchers at sites where an existing infrastructure exists sometimes can arrange for electronic communication. The contractor will be tasked to increase the connectivity of remote field stations, environmental observatories, and autonomous instruments to the Internet so that investigators have access to data at their home institutions and so that data may be shared between researchers working at separate locations in the Arctic.

- Identify requirements of local, regional, Federal, and international entities ((address or describe this plan (or process) in the Concept of Operations - Safety, Environmental and Health Plan section)

The conduct of research in the Arctic often requires the permission from at least one governmental institution to provide access to land or facilities. The contractor will be responsible for obtaining all permits for activities of the contractor in support of research programs. Researchers are responsible for obtaining permits to conduct their research projects. The contractor, however, should provide information to researchers that will facilitate their application for required permits. The contractor should have the capability to compile a list of permitting procedures and requirements for the North Slope of Alaska, Greenland, and northern Canada.

The contractor will coordinate with other Federal agencies and other NSF contractors, where applicable, to implement operational planning of NSF supported projects.

The contractor is required to conduct activities in a way that conforms to the "Principles for the Conduct of Research in the Arctic", which is Appendix 1 to this SOW.

Appendix: Principles for the Conduct of Research in the Arctic

Introduction

All researchers working in the North have an ethical responsibility toward the people of the North, their cultures, and the environment. The following principles have been formulated to provide guidance for researchers in the physical, biological, behavioral, health, economic, political, and social sciences and in the humanities. These principles are to be observed when carrying out or sponsoring research in Arctic and northern regions or when applying the results of this research.

This statement addresses the need to promote mutual respect and communication between scientists and northern residents. Cooperation is needed at all stages of research planning and implementation in projects that directly affect northern people. Cooperation will contribute to a better understanding of the potential benefits of Arctic research for northern residents and will contribute to the development of northern science through traditional knowledge and experience.

These "Principles for the Conduct of Research in the Arctic" were prepared by the Interagency Social Science Task Force in response to a recommendation by the Polar Research Board of the National Academy of Sciences and at the direction of the Interagency Arctic Research Policy Committee. This statement is not intended to replace other existing Federal, State, or professional guidelines, but rather to emphasize their relevance for the whole scientific community. Examples of similar guidelines used by professional organizations and agencies in the United States and in other countries are listed in the publications.

Implementation

All scientific investigations in the Arctic should be assessed in terms of potential human impact and interest. Social science research, particularly studies of human subjects, requires special consideration, as do studies of resources of economic, cultural, and social value to Native people. In all instances, it is the responsibility of the principal investigator on each project to implement the following recommendations:

1. The researcher should inform appropriate community authorities of planned research on lands, waters, or territories used or occupied by them. Research directly involving northern people or communities should not proceed without their clear and informed consent. When informing the community and/or obtaining informed consent, the researcher should identify:
 - a. all sponsors and sources of financial support;
 - b. the person in charge and all investigators involved in the research, as well as any anticipated need for consultants, guides, or interpreters;
 - c. the purposes, goals, and time frame of the research;
 - d. data-gathering techniques (tape and video recordings, photographs, physiological measurements, and so on) and the uses to which they will be put; and
 - e. foreseeable positive and negative implications and impacts of the research.
2. The duty of researchers to inform communities continues after approval has been obtained. Ongoing projects should be explained in terms understandable to the local community.
3. Researchers should consult with and, where applicable, include northern communities in project planning and implementation.

Reasonable opportunities should be provided for the communities to express their interests and to participate in the research.

4. Research results should be explained in nontechnical terms and, where feasible, should be communicated by means of study materials that can be used by local teachers or displays that can be shown in local community centers or museums.

5. Copies of research reports, data descriptions, and other relevant materials should be provided to the local community. Special efforts must be made to communicate results that are responsive to local concerns.

6. Subject to the requirements for anonymity, publications should always refer to the informed consent of participants and give credit to those contributing to the research project.

7. The researcher must respect local cultural traditions, languages, and values. The researcher should, where practicable, incorporate the following elements in the research design:

- a. Use of local and traditional knowledge and experience.
- b. Use of the languages of the local people.
- c. Translation of research results, particularly those of

local concern, into the languages of the people affected by the research.

8. When possible, research projects should anticipate and provide meaningful experience and training for young people.

9. In cases where individuals or groups provide information of a confidential nature, their anonymity must be guaranteed in both the original use of data and in its deposition for future use.

10. Research on humans should only be undertaken in a manner that respects their privacy and dignity:

a. Research subjects must remain anonymous unless they have agreed to be identified.

If anonymity cannot be guaranteed, the subjects must be informed of the possible consequences of becoming involved in the research.

b. In cases where individuals or groups provide information of a confidential or personal nature, this confidentiality must be guaranteed in both the original use of data and in its deposition for future use.

c. The rights of children must be respected. All research involving children must be fully justified in terms of goals and objectives and never undertaken without the consent of the children and their parents or legal guardians.

d. Participation of subjects, including the use of photography in research, should always be based on informed consent.

e. The use and disposition of human tissue samples should always be based on the informed consent of the subjects or next of kin.

11. The researcher is accountable for all project decisions that affect the community, including decisions made by subordinates.

12. All relevant Federal, State, and local regulations and policies pertaining to cultural, environmental, and health protection must be strictly observed.

13. Sacred sites, cultural materials, and cultural property cannot be disturbed or removed without community and/or individual consent and in accordance with Federal and State laws and regulations.

In implementing these principles, researchers may find additional guidance from Alaska Native and municipal organizations. These can be contacted for general information, obtaining informed consent, and matters relating to research proposals and coordination with Native and local interests.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

CONTRACT ID CODE

PAGE OF PAGES

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|--|--|--------------------------------------|---|--------------------------------|
| 2. AMENDMENT / MODIFICATION NO. One (001) | | 3. EFFECTIVE DATE See 16c | 4. REQUISITION / PURCHASE REQ NO. OPP-0042846 | 5. PROJECT NO. (if applicable) |
| 6. ISSUED BY NATIONAL SCIENCE FOUNDATION CPO - CONTRACTS BRANCH, SECTION II 4201 WILSON BOULEVARD, SUITE 475 ARLINGTON, VA 22230 | | CODE | 7. ADMINISTERED BY (if other than Item 6) SAME AS ITEM 6 | |
| 8. NAME AND ADDRESS OF CONTRACTOR VECO Rocky Mountain, Inc. 900 E. Nichols Avenue Suite 250 Englewood, CO 80112 | | (6) | 9A. AMENDMENT OF SOLICITATION NO. | |
| CODE | | 9B. DATED (SEE ITEM 11) | | |
| FACILITY CODE | | X | 10A. MODIFICATION OF CONTRACT / ORDER NO. OPP-0001041 | |
| | | 10B. DATED (SEE ITEM 13) 12/01/99 | | |

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

- The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this document prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

01020100 5205 02XX 4110 \$2,368,563

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

| | |
|-----|---|
| (6) | A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A. |
| | B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). |
| | C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: |
| X | D. OTHER (Specify type of modification and authority) FAR Clause 52.232-22, "Limitation of Funds (APR 1984)" of the Contract |

E. IMPORTANT: Contractor X is not, is required to sign this document and return _____ copies to issuing office.

14. DESCRIPTION OF AMENDMENT / MODIFICATION (Organized by UCF section headings, including solicitation / contract subject matter where feasible.)

1. The purpose of this modification is to provide additional incremental funding to the contract. Therefore, the contract is modified as set forth herein.

See Page 2

Except as provided herein, all terms and conditions of the document referenced in Item 9A and 10A, as heretofore changed, remains unchanged and in full force and effect.

| | | | |
|---|------------------|---|-----------------------------|
| 15A. NAME AND TITLE OF SIGNER (Type of print) | | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Patricia S. Williams Contracting Officer | |
| 15B. CONTRACTOR / OFFEROR (Signature of person authorized to sign) | 15C. DATE SIGNED | 16B. UNITED STATES OF AMERICA Patricia Williams (Signature of Contracting Officer) | 16C. DATE SIGNED 6/23/00 |

1. The purpose of this modification to contract OPP-0001041 is to provide additional incremental funding in the amount of \$2,368,563 in accordance with the "Limitation of Funds" clause of the contract. Accordingly, the contract is hereby modified as follows:
2. Section B, "Supplies/Services and Prices/Costs", subsection B.8, "(Incremental) Contract Funding", is revised to provide an additional \$2,368,563. The total amount allotted to this contract, including this modification, is \$3,968,563.
3. As a result of the above action the total funding under the contract is hereby revised as follows:

| | <u>COST</u> | <u>FIXED FEE</u> | <u>TOTAL CPFF</u> |
|-------------|-------------|------------------|-------------------|
| <u>By</u> | | | \$2,368,563 |
| <u>From</u> | | | \$1,600,000 |
| <u>To</u> | | | \$3,968,563 |

4. The funding provided is expected to cover contractor operations through 11/30/00.
5. All other terms and conditions of the contract remain unchanged.

Amy Gooden
2004 11th St NW
Washington, DC 20001
(615) 414-7220

National Science Foundation
FOIA Officer (Rm 1265)
4201 Wilson Blvd
Arlington, VA 22230

May 11, 2007

FOIA REQUEST

Dear FOI Officer:

Pursuant to the federal Freedom of Information Act, 5 U.S.C. § 552, I request access to and copies of

The 9/15/2000 signed contract between VECO ROCKY MOUNTAIN, INC. and National Science Foundation.

The following information should ease your search for the contract.

VENDOR NAME: VECO ROCKY MOUNTAIN, INC, 9000 E NICHOLS AVE # 250,
ENGLEWOOD, CO, 80112
VENDOR DUNS NUMBER: 1883957920000
PROCUREMENT INSTRUMENT ID: CPOAS199912D0001041
DATE EFFECTIVE: 9/15/2000 " " ms & z
DATE COMPLETED: 11/15/2004

I would like to receive the information in electronic format if possible.

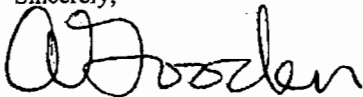
I agree to pay reasonable duplication fees for the processing of this request in an amount not to exceed \$100. However, please notify me prior to your incurring any expenses in excess of that amount.

If my request is denied in whole or part, I ask that you justify all deletions by reference to specific exemptions of the act. I will also expect you to release all segregable portions of otherwise exempt material. I, of course, reserve the right to appeal your decision to withhold any information or to deny a waiver of fees.

I look forward to your reply within 20 business days, as the statute requires.

Thank you for your assistance.

Sincerely,



Amy Gooden

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE PAGE OF PAGES
1 1 2

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|--|--|-------------------------------------|--|--------------------------------|
| 2. AMENDMENT / MODIFICATION NO. Two (002) | | 3. EFFECTIVE DATE See 16c | 4. REQUISITION / PURCHASE REQ NO. OPP-0044096 | 5. PROJECT NO. (if applicable) |
| 6. ISSUED BY NATIONAL SCIENCE FOUNDATION CPO - CONTRACTS BRANCH, SECTION II 4201 WILSON BOULEVARD, SUITE 475 ARLINGTON, VA 22230 | | CODE | 7. ADMINISTERED BY (if other than Item 6) SAME AS ITEM 6 | |
| 8. NAME AND ADDRESS OF CONTRACTOR VECO Rocky Mountain, Inc. 900 E. Nichols Avenue Suite 250 Englewood, CO 80112 | | (✓) | 9A. AMENDMENT OF SOLICITATION NO. | |
| CODE | | | 9B. DATED (SEE ITEM 11) | |
| FACILITY CODE | | X | 10A. MODIFICATION OF CONTRACT / ORDER NO. OPP-0001041 | |
| | | | 10B. DATED (SEE ITEM 13) 12/01/99 | |

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this document prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required)

01020100 5205 02XX 4110 \$838,560

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

| | |
|-----|---|
| (✓) | A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A. |
| | B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). |
| | C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: |
| X | D. OTHER (Specify type of modification and authority) FAR Clause 52.232-22, "Limitation of Funds (APR 1984)" of the Contract |

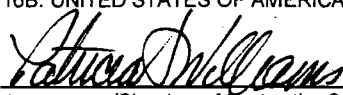
E. IMPORTANT: Contractor X is not, is required to sign this document and return ___ copies to issuing office.

14. DESCRIPTION OF AMENDMENT / MODIFICATION (Organized by UCF section headings, including solicitation / contract subject matter where feasible.)




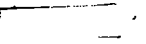

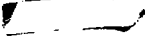
1. The purpose of this modification is to provide additional incremental funding to the contract. Therefore, the contract is modified as set forth herein.

See Page 2

Except as provided herein, all terms and conditions of the document referenced in Item 9A and 10A, as heretofore changed, remains unchanged and in full force and effect.

| | | | |
|--|------------------|--|------------------------------------|
| 15A. NAME AND TITLE OF SIGNER (Type of print) | | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Patricia S. Williams Contracting Officer | |
| 15B. CONTRACTOR / OFFEROR <i>(Signature of person authorized to sign)</i> | 15C. DATE SIGNED | 16B. UNITED STATES OF AMERICA  <i>(Signature of Contracting Officer)</i> | 16C. DATE SIGNED 9/11/00 |

1. The purpose of this modification to contract OPP-0001041 is to provide additional funding in the amount of \$838,560 for partial support of Approved Modification No. 1 to the Year One Program Plan in accordance with the "Limitation of Funds" clause of the contract. Accordingly, the contract is hereby modified as follows:
2. Section B, "Supplies/Services and Prices/Costs", subsection B.8, "(Incremental) Contract Funding", is revised to provide an additional \$838,560. The total amount allotted to this contract, including this modification, is \$4,807,123.
3. As a result of the above action the total funding under the contract is hereby revised as follows:

| | <u>COST</u> | <u>FIXED FEE</u> | <u>TOTAL CPF</u> |
|-------------|---|---|------------------|
| <u>By</u> |  |  | \$ 838,560 |
| <u>From</u> |  |  | \$3,968,563 |
| <u>To</u> |  |  | \$4,807,123 |

4. The funding provided is expected to cover contractor operations through 11/30/00.
5. All other terms and conditions of the contract remain unchanged.

Amy Gooden
2004 11th St NW
Washington, DC 20001
(615) 414-7220

National Science Foundation
FOIA Officer (Rm 1265)
4201 Wilson Blvd
Arlington, VA 22230

May 11, 2007

FOIA REQUEST

Dear FOI Officer:

Pursuant to the federal Freedom of Information Act, 5 U.S.C. § 552, I request access to and copies of

The ⁵4/15/2001 signed contract between VECO ROCKY MOUNTAIN, INC. and National Science Foundation.

The following information should ease your search for the contract.

VENDOR NAME: VECO ROCKY MOUNTAIN, INC, 9000 E NICHOLS AVE # 250,
ENGLEWOOD, CO, 80112
VENDOR DUNS NUMBER: 1883957920000
PROCUREMENT INSTRUMENT ID: CPOAS199912D0001041
DATE EFFECTIVE: 4/15/2002 4/5/01 mod 4
DATE COMPLETED: 11/15/2004

I would like to receive the information in electronic format if possible.

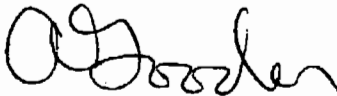
I agree to pay reasonable duplication fees for the processing of this request in an amount not to exceed \$100. However, please notify me prior to your incurring any expenses in excess of that amount.

If my request is denied in whole or part, I ask that you justify all deletions by reference to specific exemptions of the act. I will also expect you to release all segregable portions of otherwise exempt material. I, of course, reserve the right to appeal your decision to withhold any information or to deny a waiver of fees.

I look forward to your reply within 20 business days, as the statute requires.

Thank you for your assistance.

Sincerely,



Amy Gooden

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

CONTRACT ID CODE

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| 2. AMENDMENT / MODIFICATION NO. Four (004) | | 3. EFFECTIVE DATE See 16c | 4. REQUISITION / PURCHASE REQ NO. OPP-0120220 | 5. PROJECT NO. (if applicable) |
| 6. ISSUED BY NATIONAL SCIENCE FOUNDATION CPO - CONTRACTS BRANCH, SECTION II 4201 WILSON BOULEVARD, SUITE 475 ARLINGTON, VA 22230 | | CODE | 7. ADMINISTERED BY (if other than Item 6) SAME AS ITEM 6 | |
| 8. NAME AND ADDRESS OF CONTRACTOR VECO Rocky Mountain, Inc. 9000 E. Nichols Avenue Suite 250 Englewood, CO 80112 Attn: Mike McKibben | | | (✓) | 9A. AMENDMENT OF SOLICITATION NO. |
| | | | | 9B. DATED (SEE ITEM 11) |
| | | | X | 10A. MODIFICATION OF CONTRACT / ORDER NO. OPP-0001041 |
| CODE | FACILITY CODE | | | 10B. DATED (SEE ITEM 13) 12/01/99 |

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended.

Offers must acknowledge receipt of this document prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

01020100 5205 02XX 4110 \$2,544,645

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

| | |
|-----|---|
| (✓) | A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN 10A. |
| | B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). |
| | C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: |
| X | D. OTHER (Specify type of modification and authority) FAR Clause 52.232-22, "Limitation of Funds (APR 1984)" of the Contract |

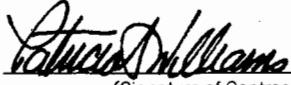
E. **IMPORTANT:** Contractor X is not, is required to sign this document and return ___ copies to issuing office.

14. DESCRIPTION OF AMENDMENT / MODIFICATION (Organized by UCF section headings, including solicitation / contract subject matter where feasible.)

1. The purpose of this modification is to provide additional incremental funding to the contract. Therefore, the contract is modified as set forth herein.

See Page 2

Except as provided herein, all terms and conditions of the document referenced in Item 9A and 10A, as heretofore changed, remains unchanged and in full force and effect.

| | | | |
|---|------------------|--|------------------|
| 15A. NAME AND TITLE OF SIGNER (Type of print) | | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Patricia S. Williams Contracting Officer | |
| 15B. CONTRACTOR / OFFEROR | 15C. DATE SIGNED | 16B. UNITED STATES OF AMERICA | 16C. DATE SIGNED |
| (Signature of person authorized to sign) | |  (Signature of Contracting Officer) | |

1. The purpose of this modification to contract OPP-0001041 is to provide additional funding in the amount of \$2,544,645 for partial support of Modification No. 1 to the approved Year Two Program Plan in accordance with the "Limitation of Funds" clause of the contract. Accordingly, the contract is hereby modified as follows:
2. Section B, "Supplies/Services and Prices/Costs", subsection B.8, "(Incremental) Contract Funding", is revised to provide an additional **\$2,544,645**. The total amount allotted to this contract, including this modification, is **\$12,351,768**.
3. As a result of the above action the total funding under the contract is hereby revised as follows:

| | <u>COST</u> | <u>FIXED FEE</u> | <u>TOTAL CPFF</u> |
|-------------|-------------|------------------|-------------------|
| <u>By</u> | _____ | _____ | \$ 2,544,645 |
| <u>From</u> | _____ | _____ | \$ 9,807,123 |
| <u>To</u> | _____ | _____ | \$12,351,768 |

4. The funding provided is expected to cover contractor operations through 11/30/01.
5. All other terms and conditions of the contract remain unchanged.

| | | | |
|--|--|--|---|
| AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT | | 1. CONTRACT ID CODE | PAGE OF PAGES 1 1 2 |
| 2. AMENDMENT / MODIFICATION NO. <p style="text-align: center;">Six (006)</p> | | 3. EFFECTIVE DATE <p style="text-align: center;">See 16c</p> | 4. REQUISITION / PURCHASE REQ NO. <p style="text-align: center;">OPP-0212976</p> |
| 6. ISSUED BY <p style="text-align: center;">NATIONAL SCIENCE FOUNDATION CPO - CONTRACTS BRANCH, SECTION II 4201 WILSON BOULEVARD, SUITE 475 ARLINGTON, VA 22230</p> | | 7. ADMINISTERED BY (if other than Item 6) <p style="text-align: center;">SAME AS ITEM 6</p> | |
| 8. NAME AND ADDRESS OF CONTRACTOR <p>VECO Rocky Mountain, Inc. 9000 E. Nichols Avenue Suite 250 Englewood, CO 80112</p> <p>Attn: Mike McKibben</p> | | (✓) | 9A. AMENDMENT OF SOLICITATION NO. |
| CODE | | | 9B. DATED (SEE ITEM 11) |
| FACILITY CODE | | X | 10A. MODIFICATION OF CONTRACT / ORDER NO. <p style="text-align: center;">OPP-0001041</p> |
| | | | 10B. DATED (SEE ITEM 13) <p style="text-align: center;">12/01/99</p> |

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended.

Offers must acknowledge receipt of this document prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
(a) By completing Items 8 and 15, and returning _____ copies of the amendment; **(b)** By acknowledging receipt of this amendment on each copy of the offer submitted; or **(c)** By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

01020100 5205 02XX 4110 \$6,000,000

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT/ORDERS,
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

| | |
|-----|---|
| (✓) | A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN 10A. |
| | B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). |
| | C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: |
| X | D. OTHER (Specify type of modification and authority) <p style="text-align: center;">FAR Clause 52.232-22, "Limitation of Funds (APR 1984)" of the Contract</p> |

E. **IMPORTANT:** Contractor X is not, is required to sign this document and return ___ copies to issuing office.

14. DESCRIPTION OF AMENDMENT / MODIFICATION (Organized by UCF section headings, including solicitation / contract subject matter where feasible.)

1. The purpose of this modification is to provide additional incremental funding to the contract. Therefore, the contract is modified as set forth herein.

See Page 2

Except as provided herein, all terms and conditions of the document referenced in Item 9A and 10A, as heretofore changed, remains unchanged and in full force and effect.

| | | | |
|--|------------------|---|--|
| 15A. NAME AND TITLE OF SIGNER (Type of print) | | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) <p style="text-align: center;">Patricia S. Williams Contracting Officer</p> | |
| 15B. CONTRACTOR / OFFEROR <p style="text-align: center;">(Signature of person authorized to sign)</p> | 15C. DATE SIGNED | 16B. UNITED STATES OF AMERICA <p style="text-align: center;"><i>Patricia Williams</i> (Signature of Contracting Officer)</p> | 16C. DATE SIGNED <p style="text-align: center;">11/8/02</p> |

1. The purpose of this modification to contract OPP-0001041 is to provide additional funding in the amount of \$6,000,000 for partial support of the approved Year Three Program Plan in accordance with the "Limitation of Funds" clause of the contract. Accordingly, the contract is hereby modified as follows:
2. Section B, "Supplies/Services and Prices/Costs", subsection B.8, "(Incremental) Contract Funding ", is revised to provide an additional \$6,000,000. The total amount allotted to this contract, including this modification, is \$19,355,013.
3. As a result of the above action the total funding under the contract is hereby revised as follows:

| | <u>COST</u> | <u>FIXED FEE</u> | <u>TOTAL CPFF</u> |
|-------------|------------------|------------------|-------------------|
| <u>By</u> | _____ | _____ | \$ 6,000,000 |
| <u>From</u> | _____ | _____ | \$13,355,013 |
| <u>To</u> | _____ | _____ | \$19,355,013 |

4. The funding provided is expected to cover contractor operations through 9/30/02.
5. All other terms and conditions of the contract remain unchanged.

AMENDMENT OF SOLICITATION / MODIFICATION OF CONTRACT

CONTRACT ID CODE _____ PAGE OF PAGES
1 | 2

| | | | |
|--|-------------------------------------|-----------------------------------|--------------------------------|
| 2. AMENDMENT / MODIFICATION NO. Eleven (011) | 3. EFFECTIVE DATE See 16c | 4. REQUISITION / PURCHASE REQ NO. | 5. PROJECT NO. (if applicable) |
|--|-------------------------------------|-----------------------------------|--------------------------------|

| | |
|--|--|
| 6. ISSUED BY NATIONAL SCIENCE FOUNDATION DIVISION OF ACQUISITION & COST SUPPORT 4201 WILSON BOULEVARD, SUITE 475 ARLINGTON, VA 22230 | 7. ADMINISTERED BY (if other than Item 6) SAME AS ITEM 6 |
|--|--|

| | | |
|---|-----|---|
| 8. NAME AND ADDRESS OF CONTRACTOR VECO Rocky Mountain, Inc. 9000 E. Nichols Avenue Suite 250 Englewood, CO 80112 Attn: Mike McKibben | (✓) | 9A. AMENDMENT OF SOLICITATION NO. |
| | | 9B. DATED (SEE ITEM 11) |
| | X | 10A. MODIFICATION OF CONTRACT / ORDER NO. OPP-0001041 |
| CODE _____ FACILITY CODE _____ | | 10B. DATED (SEE ITEM 13) 12/01/99 |

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended.
Offers must acknowledge receipt of this document prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

01020100 5205 02XX 4110 \$5,000,000

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

| | |
|-----|---|
| (✓) | A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN 10A. |
| | B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, Etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). |
| | C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: |
| X | D. OTHER (Specify type of modification and authority) FAR Clause 52.232-22, "Limitation of Funds (APR 1984)" of the Contract |

E. **IMPORTANT:** Contractor X is not, is required to sign this document and return ___ copies to issuing office.

14. DESCRIPTION OF AMENDMENT / MODIFICATION (Organized by UCF section headings, including solicitation / contract subject matter where feasible.)

1. The purpose of this modification is to provide additional incremental funding to the contract. Therefore, the contract is modified as set forth herein.

See Page 2

Except as provided herein, all terms and conditions of the document referenced in Item 9A and 10A, as heretofore changed, remains unchanged and in full force and effect.

| | |
|---|--|
| 15A. NAME AND TITLE OF SIGNER (Type or print) | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Patrick Welsh Contracting Officer |
| 15B. CONTRACTOR / OFFEROR | 16B. UNITED STATES OF AMERICA |
| (Signature of person authorized to sign) | (Signature of Contracting Officer) 1/07/03 |
| 15C. DATE SIGNED | 16C. DATE SIGNED |

1. The purpose of this modification to contract OPP-0001041 is to provide additional funding in the amount of \$5,000,000 for partial support of the approved Year Four Program Plan in accordance with the "Limitation of Funds" clause of the contract. Accordingly, the contract is hereby modified as follows:
2. Section B. "Supplies/Services and Prices/Costs", subsection B.8, "(Incremental) Contract Funding", is revised to provide an additional \$5,000,000. The total amount allotted to this contract, including this modification, is \$26,781,017.
3. As a result of the above action the total funding under the contract is hereby revised as follows:

| | <u>COST</u> | <u>FIXED FEE</u> | <u>TOTAL CPF</u> |
|-------------|-------------|------------------|------------------|
| <u>By</u> | | | \$ 5,000,000 |
| <u>From</u> | | | \$21,781,017 |
| <u>To</u> | | | \$26,781,017 |

4. The funding provided is expected to cover contractor operations through 6/30/03.
5. All other terms and conditions of the contract remain unchanged.

| | | | | |
|---|---|---|---|---------------------|
| AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT | | | 1. CONTRACT ID CODE | PAGE OF PAGES |
| | | | 1 | 2 |
| 2. AMENDMENT / MODIFICATION NO. Twelve (012) | 3. EFFECTIVE DATE per Block 16c | 4. REQUISITION / PURCHASE REQ NO. OPP-0333762 | 5. PROJECT NO. (if applicable) | |
| 6. ISSUED BY NATIONAL SCIENCE FOUNDATION DACS - CONTRACTS BRANCH, SECTION II 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230 | | 7. ADMINISTERED BY (if other than Item 6) | CODE | |
| 8. NAME AND ADDRESS OF CONTRACTOR VECO Rocky Mountain, Inc. 9000 E. Nichols Avenue Suite 250 Englewood, CO 80112 Attn: Mike McKibben | | (X) | 9A. AMENDMENT OF SOLICITATION NO. | |
| CODE | | | 9B. DATED (SEE ITEM 11) | |
| FACILITY CODE | | X | 10A. MODIFICATION OF CONTRACT / ORDER NO. OPP-0001041 | |
| | | | 10B. DATED (SEE ITEM 13) December 1, 1999 | |

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this document prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
01020100 5205 02XX 2542 \$1,000,000

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

| | |
|-----|---|
| (X) | A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER. 10A. |
| | B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). |
| | C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: |
| X | D. OTHER (Specify type of modification and authority) FAR Clause 52.232-22, "Limitation of Funds (APR 1984)" of the Contract |

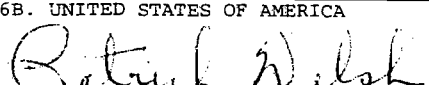
E. **IMPORTANT:** Contractor is not, is required to sign this document and return _____ copies to issuing office.

14. DESCRIPTION OF AMENDMENT / MODIFICATION (Organized by UCF section headings, including solicitation / contract subject matter where feasible.)







1. The purpose of this modification is to provide additional incremental funding to the contract. Therefore, the contract is modified as set forth herein.

See Page 2

Except as provided herein, all terms and conditions of the document referenced in Item 9A and 10A, as heretofore changed, remains unchanged and in full force and effect.

| | | | |
|---|--|--|------------------|
| 15A. NAME AND TITLE OF SIGNER (Type of print) | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Patrick Welsh Contracting Officer | | |
| 15B. CONTRACTOR / OFFEROR | 15C. DATE SIGNED | 16B. UNITED STATES OF AMERICA | 16C. DATE SIGNED |
| <i>(Signature of person authorized to sign)</i> | |  | 5/14/0 |
| | | <i>(Signature of Contracting Officer)</i> | |

1. The purpose of this modification to Contract OPP-0001041 is to provide additional funding in the amount of \$1,000,000 in support of the approved Year Four Program Plan in accordance with the "Limitation of Funds" clause of the contract. Accordingly, the contract is hereby modified as follows:
2. Section B, "Supplies/Services and Prices/Costs," subsection B.8, "(Incremental) Contract Funding," is revised to provide an additional \$1,000,000. The total amount allotted to this contract, including this modification, is \$27,781,017.
3. As a result of the above action the total funding under the contract is hereby revised as follows:

| | <u>Total Cost</u> | <u>Fixed Fee</u> | <u>Total CPFF</u> |
|-------------|---|--|-------------------|
| <u>By</u> |  |  | \$ 1,000,000 |
| <u>From</u> |  |  | \$26,781,017 |
| <u>To</u> |  |  | \$27,781,017 |

4. The funding provided is expected to cover contractor operations through September 30, 2003.
5. All other terms and conditions of the contract remain unchanged.

AMENDMENT OF SOLICITATION / MODIFICATION OF CONTRACT

CONTRACT ID CODE PAGE OF PAGES
1 | 2

| | | | | |
|---|--|---|---|--------------------------------|
| 2. AMENDMENT / MODIFICATION NO. Fourteen | | 3. EFFECTIVE DATE per Block 16c | 4. REQUISITION / PURCHASE REQ NO. OPP-0355137 | 5. PROJECT NO. (if applicable) |
| 6. ISSUED BY NATIONAL SCIENCE FOUNDATION DACS - CONTRACTS BRANCH 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230 | | 7. ADMINISTERED BY (if other than Item 6) | CODE | |
| 3. NAME AND ADDRESS OF CONTRACTOR VECO Rocky Mountain, Inc. 9000 East Nichols Avenue, Suite 250 Englewood, CO 80112 ATTN: Mr. Mike McKibben | | (✓) | 9A. AMENDMENT OF SOLICITATION NO. | |
| CODE | | | 9B. DATED (SEE ITEM 11) | |
| FACILITY CODE | | X | 10A. MODIFICATION OF CONTRACT / ORDER NO. OPP-0001041 | |
| | | | 10B. DATED (SEE ITEM 13) December 1, 1999 | |

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this document prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required)

see attached

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

| | |
|-----|---|
| (✓) | A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A. |
| | B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). |
| | C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: |
| X | D. OTHER (Specify type of modification and authority) FAR Clause 52.232-22 |

E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to issuing office.

14. DESCRIPTION OF AMENDMENT / MODIFICATION (Organized by UCF section headings, including solicitation / contract subject matter where feasible.)

see attached

Except as provided herein, all terms and conditions of the document referenced in Item 9A and 10A, as heretofore changed, remains unchanged and in full force and effect.

| | | | |
|---|------------------|---|--|
| 15A. NAME AND TITLE OF SIGNER (Type of print) | | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Bart Bridwell; Contracting Officer | |
| 15B. CONTRACTOR / OFFEROR | 15C. DATE SIGNED | 16B. UNITED STATES OF AMERICA | 16C. DATE SIGNED SEP 29 2000 |
| <i>(Signature of person authorized to sign)</i> | | <i>(Signature of Contracting Officer)</i> | |

The purpose of this modification to NSF Contract No. OPP-0001041 is to provide additional funds. Accordingly, the contract is hereby modified as follows:

- In Block 12 of this form (SF 30) add the following accounting and appropriations data:

| | |
|------------------------------|---------------------|
| 01020100-5205-1079-02XX-4110 | Increase: \$880,956 |
| 01020100-5202-1079-02XX-4110 | Increase: \$ 4,322 |
| 01020100-5208-1079-02XX-4110 | Increase: \$ 10,195 |
| 01020100-5219-1079-02XX-4110 | Increase: \$ 5,442 |
| 01020100-5221-1079-02XX-4110 | Increase: \$ 35,065 |
| 01020100-5240-1079-02XX-4110 | Increase: \$ 6,450 |
| 06040300-4693-1079-0103-2570 | Increase: \$ 81,661 |
| 01020200-5140-1079-02XX-4110 | Increase: \$ 49,765 |
| 08010208-1181-1079-0103-4110 | Increase: \$ 8,670 |
| 01020000-V349-02XX-4110 | Increase: \$ 34,416 |
| 01020100-5280-02XX-4110 | Increase: \$ 38 |

- Section B, *Supplies/Services and Prices/Costs*, Subsection B.8, *(Incremental) Contract Funding*, is revised to provide an additional \$1,116,980. The total amount allotted to this contract, including this modification, is \$28,897,997.

- As a result of the above action the total funding under the contract is hereby revised as follows:

| | Cost | Fixed Fee | Totals |
|-------|------|-----------|--------------|
| By: | | | \$1,116,980 |
| From: | | | \$27,781,017 |
| To: | | | \$28,897,997 |

- It is understood that these funds are estimated to be sufficient for the performance of work through November 30, 2003.
- This modification shall not be interpreted in any way as approval for any indirect cost rate adjustments as identified in the document titled *Program Plan Modification No. 2 for Contract Year 4*, dated June 27, 2003, nor any other document as submitted by the contractor to the National Science Foundation.

| | | | |
|---|--|---|--|
| AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT | | 1. CONTRACT ID CODE | PAGE OF PAGES 1 2 |
| 2. AMENDMENT / MODIFICATION NO. Fifteen (015) | | 3. EFFECTIVE DATE per Block 16c | 4. REQUISITION / PURCHASE REQ NO. OPP-0406842 |
| 6. ISSUED BY NATIONAL SCIENCE FOUNDATION DACS - CONTRACTS BRANCH, SECTION II 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230 | | 7. ADMINISTERED BY (if other than Item 6) | 5. PROJECT NO. (if applicable) |
| 8. NAME AND ADDRESS OF CONTRACTOR VECO Rocky Mountain, Inc. 9000 E. Nichols Avenue Suite 250 Englewood, CO 80112 Attn: Mike McKibben | | (X) | 9A. AMENDMENT OF SOLICITATION NO. |
| CODE | | | 9B. DATED (SEE ITEM 11) |
| FACILITY CODE | | X | 10A. MODIFICATION OF CONTRACT / ORDER NO. OPP-0001041 |
| | | | 10B. DATED (SEE ITEM 13) December 1, 1999 |

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this document prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See attached

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

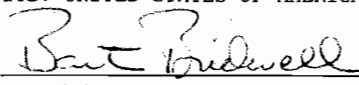
| | |
|-----|---|
| (X) | A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER 10A. |
| | B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). |
| | C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: |
| X | D. OTHER (Specify type of modification and authority) FAR Clause 52.232-22 |

E. **IMPORTANT:** Contractor is not, is required to sign this document and return _____ copies to issuing office.

14. DESCRIPTION OF AMENDMENT / MODIFICATION (Organized by UCF section headings, including solicitation / contract subject matter where feasible.)

See attached.

Except as provided herein, all terms and conditions of the document referenced in Item 9A and 10A, as heretofore changed, remains unchanged and in full force and effect.

| | | | |
|---|------------------|--|------------------|
| 15A. NAME AND TITLE OF SIGNER (Type of print) | | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Bart Bridwell Contracting Officer | |
| 15B. CONTRACTOR / OFFEROR | 15C. DATE SIGNED | 16B. UNITED STATES OF AMERICA | 16C. DATE SIGNED |
| (Signature of person authorized to sign) | |  (Signature of Contracting Officer) | 11/18/03 |

NSF Contract OPP-0001041
Modification No. Fifteen (015)

The purpose of this modification to NSF Contract OPP-0001041 is to provide additional funds. Accordingly, the contract is hereby modified as follows:

1. In Block 12 of this form (SF 30) add the following accounting and appropriation data:

01020100-5205-02XX-2542

Increase: \$2,500,000

2. Section B, "Supplies/Services and Prices/Costs," subsection B.8, "(Incremental) Contract Funding," is revised to provide an additional \$2,500,000. The total amount allotted to this contract, including this modification, is \$31,397,997.

3. As a result of the above action the total funding under the contract is hereby revised as follows:

| | <u>Cost</u> | <u>Fixed Fee</u> | <u>Total CFFF</u> |
|-------------|-------------|------------------|-------------------|
| <u>By</u> | ██████████ | ██████████ | \$ 2,500,000 |
| <u>From</u> | ██████████ | ██████████ | \$28,897,997 |
| <u>To</u> | ██████████ | ██████████ | \$31,397,997 |

4. It is understood that these funds are estimated to be sufficient for the performance of work through January 31, 2004.
5. This modification shall not be interpreted in any way as approval for any indirect cost rate adjustments as identified in the document titled *Program Plan Modification No. 2 for Contract Year 4*, dated June 27, 2003, nor any other document as submitted by the contractor to the National Science Foundation.

| | | | |
|---|--|---|--|
| AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT | | 1. CONTRACT ID CODE | PAGE 1 OF 2 PAGES 2 |
| 2. AMENDMENT / MODIFICATION NO. Seventeen (017) | | 3. EFFECTIVE DATE per Block 16c | 4. REQUISITION / PURCHASE REQ NO. OPP-0451973 |
| 6. ISSUED BY NATIONAL SCIENCE FOUNDATION DACS - CONTRACTS BRANCH 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230 | | 7. ADMINISTERED BY (if other than Item 6) | |
| 8. NAME AND ADDRESS OF CONTRACTOR VECO Rocky Mountain, Inc. 9000 E. Nichols Avenue Suite 250 Englewood, CO 80112 Attn: Mike McKibben | | (X) | 9A. AMENDMENT OF SOLICITATION NO. |
| CODE | | | 9B. DATED (SEE ITEM 11) |
| FACILITY CODE | | X | 10A. MODIFICATION OF CONTRACT / ORDER NO. OPP-0001041 |
| | | | 10B. DATED (SEE ITEM 13) December 1, 1999 |

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this document prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See attached

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

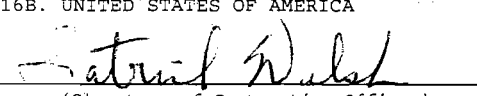
| | |
|-----|---|
| (X) | A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. 10A. |
| | B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). |
| | C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: |
| X | D. OTHER (Specify type of modification and authority) FAR Clause 52.232-22 |

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to issuing office.

14. DESCRIPTION OF AMENDMENT / MODIFICATION (Organized by UCF section headings, including solicitation / contract subject matter where feasible.)

See attached.

Except as provided herein, all terms and conditions of the document referenced in Item 9A and 10A, as heretofore changed, remains unchanged and in full force and effect.

| | | | |
|---|------------------|--|------------------|
| 15A. NAME AND TITLE OF SIGNER (Type of print) | | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Patrick Welsh Contracting Officer | |
| 15B. CONTRACTOR / OFFEROR | 15C. DATE SIGNED | 16B. UNITED STATES OF AMERICA | 16C. DATE SIGNED |
| (Signature of person authorized to sign) | |  | 8/31/04 |
| | | (Signature of Contracting Officer) | |

**NSF Contract OPP-0001041
Modification No. Seventeen (017)**

The purpose of this modification to NSF Contract OPP-0001041 is to provide additional funds. Accordingly, the contract is hereby modified as follows:

1. In Block 12 of this form (SF 30) add the following accounting and appropriation data:

01020100-5205-02XX-2542 Increase: \$1,800,000

2. Section B, "Supplies/Services and Prices/Costs," subsection B.8, "(Incremental) Contract Funding," is revised to provide an additional \$1,800,000. The total amount allotted to this contract, including this modification, is \$39,197,997.

3. As a result of the above action the total funding under the contract is hereby revised as follows:

| | <u>Cost</u> | <u>Fixed Fee</u> | <u>Total CPF</u> |
|-------------|-------------|------------------|------------------|
| <u>By</u> | _____ | _____ | \$ 1,800,000 |
| <u>From</u> | _____ | _____ | \$37,397,997 |
| <u>To</u> | _____ | _____ | \$39,197,997 |

4. It is understood that these funds are estimated to be sufficient for the performance of work through September 30, 2004.
5. This modification shall not be interpreted in any way as approval for any indirect cost rate adjustments as identified in the document titled *Program Plan Modification No. 2 for Contract Year 4*, dated June 27, 2003, nor any other document as submitted by the contractor to the National Science Foundation.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE
PAGE OF PAGES
1 2

2. AMENDMENT / MODIFICATION NO.
Eighteen (018)

3. EFFECTIVE DATE
per Block
16c

4. REQUISITION / PURCHASE REQ NO.
OPP-0455270

5. PROJECT NO. (if applicable)

6. ISSUED BY
NATIONAL SCIENCE FOUNDATION
DCCA - CONTRACTS BRANCH
4201 WILSON BOULEVARD, ROOM 475
ARLINGTON, VA 22230

7. ADMINISTERED BY (if other than Item 6)
CODE

8. NAME AND ADDRESS OF CONTRACTOR
VECO Rocky Mountain, Inc.
9000 E. Nichols Avenue
Suite 250
Englewood, CO 80112
Attn: Mike McKibben

9A. AMENDMENT OF SOLICITATION NO.
9B. DATED (SEE ITEM 11)
9C. MODIFICATION OF CONTRACT / ORDER NO.
OPP-0001041
9D. DATED (SEE ITEM 13)
December 1, 1999

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this document prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
See attached

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(X) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

X D. OTHER (Specify type of modification and authority)
FAR Clause 52.232-22

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to issuing office.

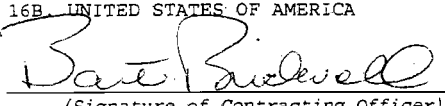
14. DESCRIPTION OF AMENDMENT / MODIFICATION (Organized by UCF section headings, including solicitation / contract subject matter where feasible.)
See attached.

Except as provided herein, all terms and conditions of the document referenced in Item 9A and 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type of print)
16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
Bart Bridwell
Contracting Officer

15B. CONTRACTOR / OFFEROR
(Signature of person authorized to sign)

15C. DATE SIGNED
30-105

16B. UNITED STATES OF AMERICA

(Signature of Contracting Officer)

16C. DATE SIGNED
SEP 23 1999

**NSF Contract OPP-0001041
Modification No. Eighteen (018)**

The purpose of this modification to NSF Contract OPP-0001041 is to provide additional funds. Accordingly, the contract is hereby modified as follows:

1. In Block 12 of this form (SF 30) add the following accounting and appropriation data:

| | |
|-------------------------|---------------------|
| 01020100-5205-02XX-2542 | Increase: \$267,723 |
| 01020000-V411-0104-2542 | Increase: \$132,351 |
| 01020200-5140-02XX-2545 | Increase: \$100,431 |
| 06030201-1581-0104-2542 | Increase: \$22,085 |
| 06020100-1692-0104-2542 | Increase: \$347,389 |

2. Section B, "Supplies/Services and Prices/Costs," subsection B.8, "(Incremental Contract Funding," is revised to provide an additional \$869,979. The total amount allotted to this contract, including this modification, is \$40,067,976.
3. As a result of the above action the total funding under the contract is hereby revised as follows:

| | <u>Cost</u> | <u>Fixed Fee</u> | <u>Total CPFF</u> |
|-------------|-------------|------------------|-------------------|
| <u>By</u> | ██████████ | ██████████ | \$ 869,979 |
| <u>From</u> | ██████████ | ██████████ | \$39,197,997 |
| <u>To</u> | ██████████ | ██████████ | \$40,067,976 |

4. It is understood that these funds are estimated to be sufficient for the performance of work through October 31, 2004.
5. This modification shall not be interpreted in any way as approval for any indirect cost rate adjustments as identified in the document titled *Program Plan Modification No. 2 for Contract Year 4*, dated June 27, 2003, nor any other document as submitted by the contractor to the National Science Foundation.

2. AMENDMENT/MODIFICATION NO. 3. EFFECTIVE DATE 4. REQUISITION/PURCHASE REQ. NO. 5. PROJECT NO. (If applicable)
 Nineteen (019) December 1, 2004 N/A N/A

6. ISSUED BY CODE 7. ADMINISTERED BY (If other than Item 6) CODE
 National Science Foundation
 Division of Contracts and Complex Agreements
 4201 Wilson Boulevard, Room 475
 Arlington, VA 22230

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) (X) 9A. AMENDMENT OF SOLICITATION NO.
 VECO Rocky Mountain, Inc.
 9000 East Nichols Avenue, Suite 250
 Englewood, CO 80112
 9B. DATED (SEE ITEM 11)
 10A. MODIFICATION OF CONTRACT/ORDER NO. OPP-0001041
 10B. DATED (SEE ITEM 11)
 December 1, 1999
 CODE FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended.
 Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
 (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted;
 or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
 N/A

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

| | |
|-----------|---|
| CHECK ONE | A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A. |
| | B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). |
| | C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: |
| X | D. OTHER (Specify type of modification and authority) 42 U.S.C. 253(c)(1) and FAR 17.204(e) |

E. IMPORTANT: Contractor is not, is required to sign this document and return 3 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this modification to NSF Contract No. OPP-0001041 is to increase the performance period by six months, through May 31, 2005. Accordingly, the contract is hereby modified as follows:

1. In Section F.2, "Period of Performance with Options Period(s)," add the following at the end of the section: "Per the authorities at 42 U.S.C. 253(c)(1) and FAR 17.204(e), this contract's performance period is increased by an additional six months, from December 1, 2004 through May 31, 2005. This contract, as modified, expires May 31, 2005."

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

| | |
|--|--|
| 15A. NAME AND TITLE OF SIGNER (Type or print) <i>William P. Harrington</i> Vice President / GM | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Bart Bridwell; Contracting Officer |
| 15B. CONTRACTOR/OFFEROR <i>[Signature]</i> (Signature of person authorized to sign) | 15C. DATE SIGNED 11/29/04 |
| 16B. UNITED STATES OF AMERICA <i>[Signature]</i> (Signature of Contracting Officer) | 16C. DATE SIGNED NOV 30 2004 |

| | | | | |
|---|--|---------------------------------------|--|--|
| AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT | | | 1. CONTRACT ID CODE | PAGE OF PAGES 1 2 |
| 2. AMENDMENT / MODIFICATION NO. Twenty (020) | | 3. EFFECTIVE DATE per Block 16c | 4. REQUISITION / PURCHASE REQ NO. ARC-0515920 | 5. PROJECT NO. (if applicable) |
| 6. ISSUED BY NATIONAL SCIENCE FOUNDATION DCCA - CONTRACTS BRANCH 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230 | | CODE | 7. ADMINISTERED BY (if other than Item 6) CODE | |
| 8. NAME AND ADDRESS OF CONTRACTOR VECO Rocky Mountain, Inc. 9000 E. Nichols Avenue Suite 250 Englewood, CO 80112 Attn: Mike McKibben | | (X) | 9A. AMENDMENT OF SOLICITATION NO. | |
| | | | 9B. DATED (SEE ITEM 11) | |
| | | X | 10A. MODIFICATION OF CONTRACT / ORDER NO. OPP-0001041 | |
| CODE | | FACILITY CODE | | 10B. DATED (SEE ITEM 13) December 1, 1999 |

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this document prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See attached

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

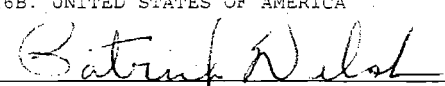
| | |
|-----|---|
| (X) | A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER 10A. |
| | B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). |
| | C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: |
| X | D. OTHER (Specify type of modification and authority) FAR Clause 52.232-22 |

E. **IMPORTANT:** Contractor is not, is required to sign this document and return _____ copies to issuing office.

14. DESCRIPTION OF AMENDMENT / MODIFICATION (Organized by UCF section headings, including solicitation / contract subject matter where feasible.)

See attached.

Except as provided herein, all terms and conditions of the document referenced in Item 9A and 10A, as heretofore changed, remains unchanged and in full force and effect.

| | | | |
|---|------------------|--|------------------|
| 15A. NAME AND TITLE OF SIGNER (Type of print) | | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Patrick Welsh Contracting Officer | |
| 15B. CONTRACTOR / OFFEROR | 15C. DATE SIGNED | 16B. UNITED STATES OF AMERICA | 16C. DATE SIGNED |
| (Signature of person authorized to sign) | |  (Signature of Contracting Officer) | 2/03/05 |

