

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

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
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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. <input checked="" type="checkbox"/> CONTRACTOR'S NEGOTIATED AGREEMENT (Contractor is required to sign this document and return <u>3</u> 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. <input type="checkbox"/> 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.
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19A. NAME AND TITLE OF SIGNER (Type or print) <i>William P. Huntington, Vice President/CA</i>	20A. NAME OF CONTRACTING OFFICER Bart Bridwell
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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

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	

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

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

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

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

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

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

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

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

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

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

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	

Totals					

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

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 Wharehouse	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

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

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

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	

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

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

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

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

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	

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

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

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

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

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

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

\$ 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

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	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

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

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

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

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

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

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

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

\$ 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

NSF Disposal Approved 08/17/01

NSF Disposal Approved 08/17/01

NSF Disposal Approved 11/2/02

NSF Disposal Approved 09/24/02

NSF Disposal Approval 10/10/03

NSF Disposal Approved 05/29/02

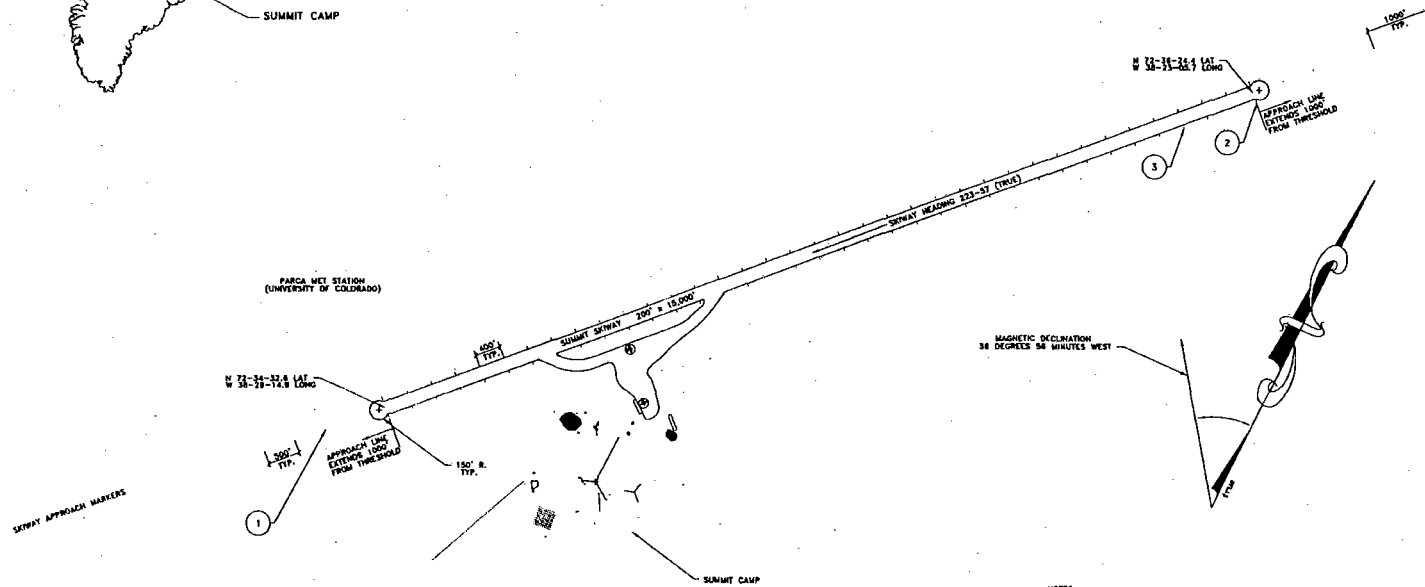
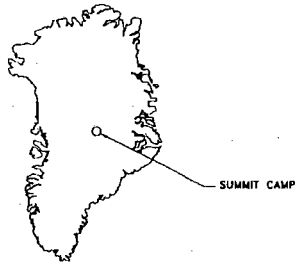
NSF Disposal Approved 06/19/02

NSF Disposal Approved 06/19/02

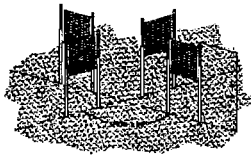
NSF Transfer/Other Approval
04/24/01

NSF Approved Disposal 01/22/02

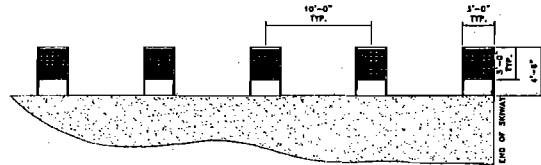
GREENLAND SUMMIT CAMP SITE MAP



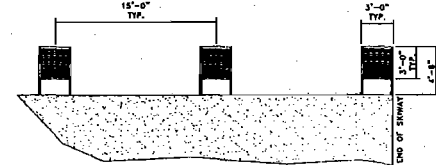
NOTES:
1. GROUND PLANE APPROACH AND THRESHOLD MARKERS CONSIST OF TWO BAMBOO POLES AND BLACK OR ORANGE MESH WOVEN ALONG POLE FOR ATTACHMENT. ORANGE FOR THRESHOLD MARKERS AND BLACK FOR PLANE APPROACH MARKERS.
2. LOCAL MAGNETIC DECLINATION 34 DEGREES 53 MINUTES WEST OF TRUE NORTH TO CONVERT TO MAGNETIC NORTH ADD 34 DEGREES 53 MINUTES TO TRUE AZIMUTHS AND BEARINGS.



1 FOUR MARKER CONFIGURATION (APPROACH LINES)
SCALE: NONE



2 THRESHOLD MARKERS
SCALE: NONE
(ENDS OF BOTH SRWAYS)

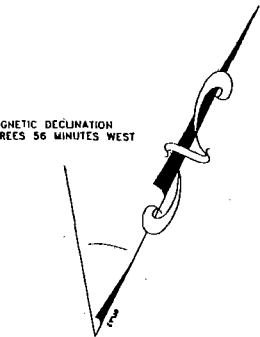


3 GROUND PLANE APPROACH MARKERS
SCALE: NONE

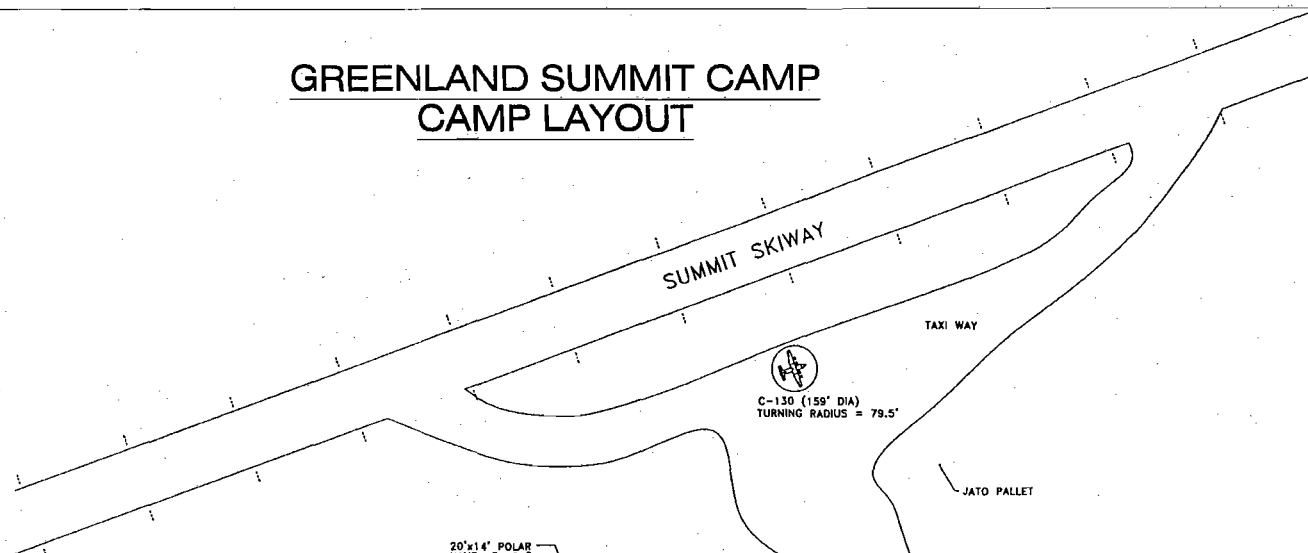
SUMMIT CAMP SITE PLAN GREENLAND			SCALE	NONE
			DATE	NOV. 00
VECO POLAR RESOURCES under contract to THE NATIONAL SCIENCE FOUNDATION 9600 EAST NICHOLS AVE., SUITE 250 ENGLEWOOD, COLORADO 80113		SUMMIT CAMP	SITE MAP VPR-C-001	NOV. 00
DESIGNED BY		DRAWN BY		
CHECKED BY		DATE		

GREENLAND SUMMIT CAMP CAMP LAYOUT

MAGNETIC DECLINATION
36 DEGREES 56 MINUTES WEST



SCALE: 1" = 200'
0 200 400 600



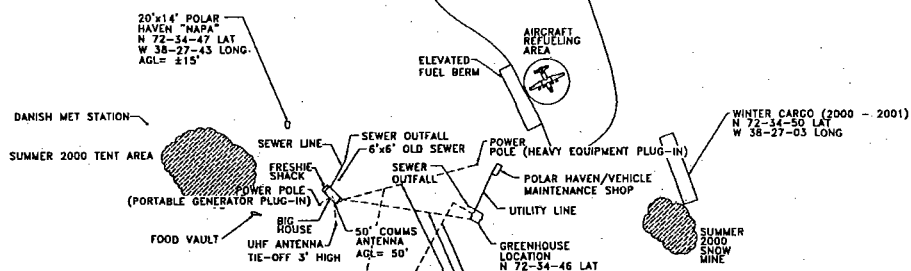
20'x14' POLAR HAVEN "NAPA" N 72-34-47 LAT W 38-27-43 LONG. AGL = ±15'

ELEVATED FUEL BERM

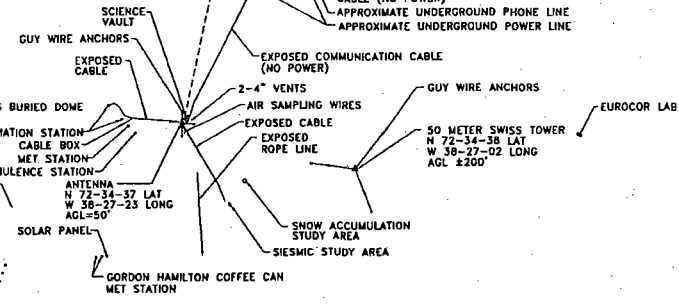
AIRCRAFT REFUELING AREA


WINTER CARGO (2000 - 2001) N 72-34-50 LAT W 38-27-03 LONG

- 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

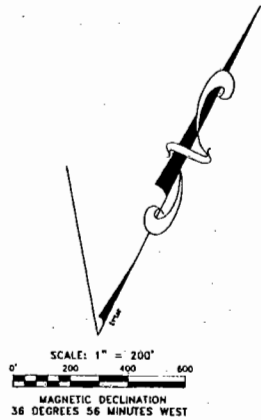


PICO DRILL POLE GISP 2 BORE HOLE (OLD PICO DRILL SITE) N 72-34-44 LAT W 38-27-35 LONG AGL = ±30'



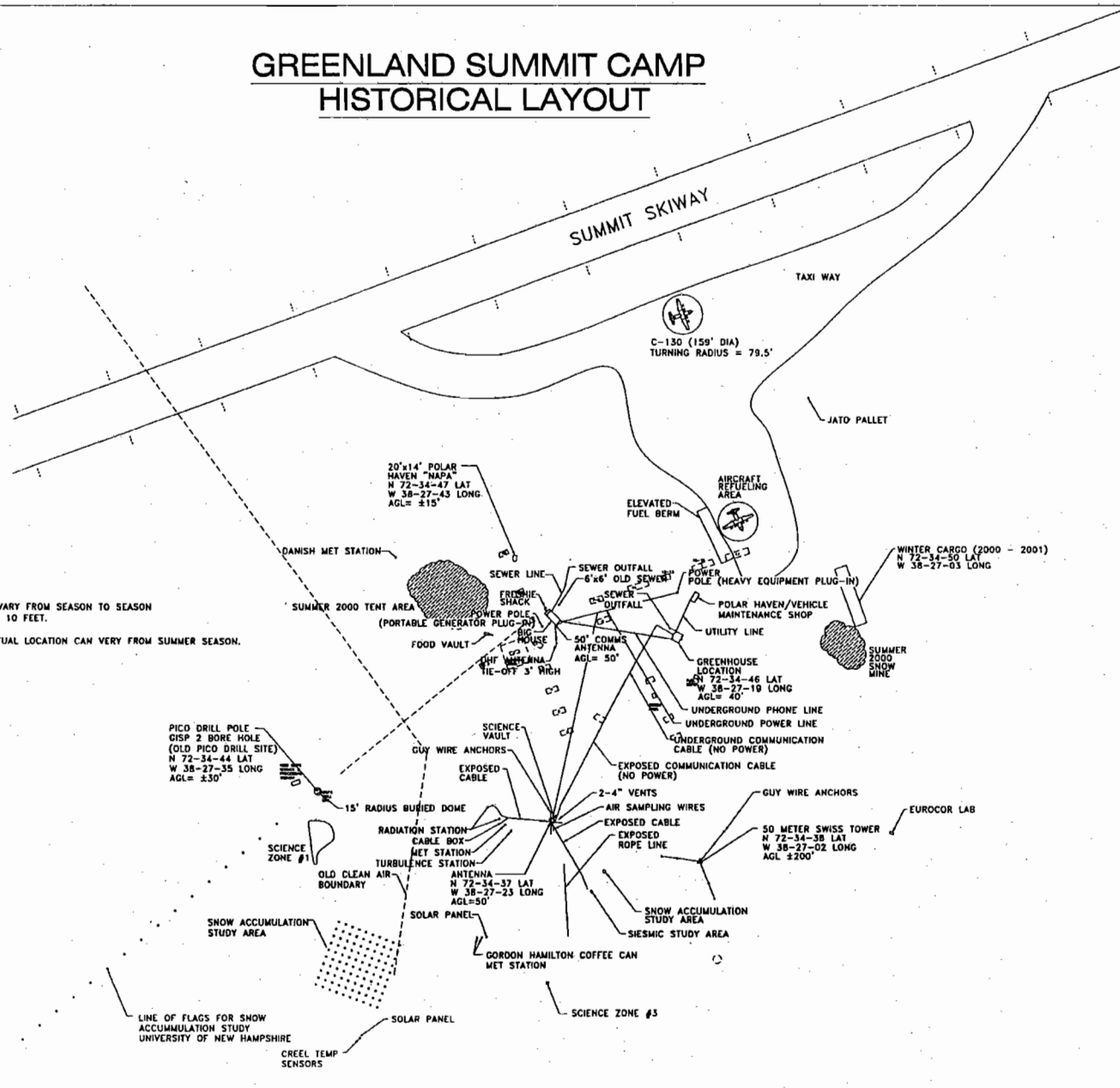
 SUMMIT CAMP SITE PLAN GREENLAND	
VECO POLAR RESOURCES under contract to THE NATIONAL SCIENCE FOUNDATION 9000 EAST NICHOLS AVE., SUITE 250 ENGLEWOOD, COLORADO 80113	
SCALE 1" = 200'	DATE NOV. 00
PROJECT SUMMIT CAMP CAMP LAYOUT VPR-C-002	DRAWN BY JS/LP

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
DRAWN BY	WRC-C-003
CHECKED BY	JS/ALR

**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).

DACS 030057
Attachment 5

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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Attachment 5

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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Attachment 5

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

DACS 030057
Attachment 5

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

DACS 030057
Attachment 5

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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Attachment 5

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
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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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Attachment 5

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)
VECO 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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B		SUPPLIES OR SERVICES AND PRICES/COSTS		PART III — LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACH.			
C		DESCRIPTION/SPECS./WORK STATEMENT		J		LIST OF ATTACHMENTS	
D		PACKAGING AND MARKING		PART IV — REPRESENTATIONS AND INSTRUCTIONS			
E		INSPECTION AND ACCEPTANCE		K		REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS	
F		DELIVERIES OR PERFORMANCE		L		INSTRS., CONDS., AND NOTICES TO OFFERORS	
G		CONTRACT ADMINISTRATION DATA		M		EVALUATION FACTORS FOR AWARD	
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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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.

H.7. 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

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

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
<p>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.</p>			
<p>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.</p>			
<p>11. Contract Listing Form – Attachment 11 is the format for listing each and every completed and on-going contract within the required timeframe.</p>			
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 Ukpëagvik 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

1 { 2

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

¹¹
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.

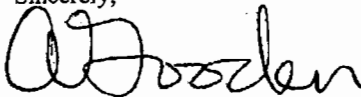
I agree to pay reasonable duplication fees for the processing of this request in an amount not to exceed \$100. However, please notify me prior to your incurring any expenses in excess of that amount.

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

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

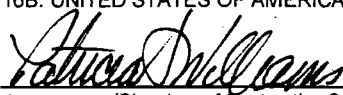
E. IMPORTANT: Contractor X is not, is required to sign this document and return ___ copies to issuing office.

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




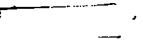

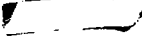
1. The purpose of this modification is to provide additional incremental funding to the contract. Therefore, the contract is modified as set forth herein.

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.

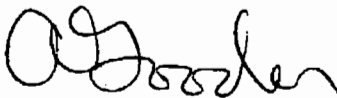
I agree to pay reasonable duplication fees for the processing of this request in an amount not to exceed \$100. However, please notify me prior to your incurring any expenses in excess of that amount.

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

PAGE OF PAGES

1 | 2

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

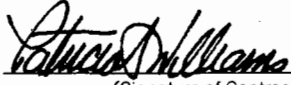
E. **IMPORTANT:** Contractor X is not, is required to sign this document and return ___ copies to issuing office.

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>	5. PROJECT NO. (if applicable)
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>		CODE	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.	
			9B. DATED (SEE ITEM 11)	
		X	10A. MODIFICATION OF CONTRACT / ORDER NO. <p style="text-align: center;">OPP-0001041</p>	
CODE			10B. DATED (SEE ITEM 13) <p style="text-align: center;">12/01/99</p>	
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 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.)


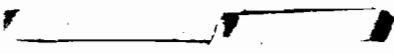
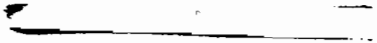
1. The purpose of this modification is to provide additional incremental funding to the contract. Therefore, the contract is modified as set forth herein.

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)
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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 CODE 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.
				9B. DATED (SEE ITEM 11)
			X	10A. MODIFICATION OF CONTRACT / ORDER NO. OPP-0001041
				10B. DATED (SEE ITEM 13) 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 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

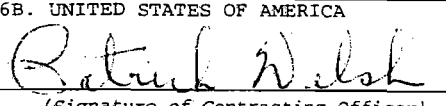
E. **IMPORTANT:** Contractor is not, is required to sign this document and return _____ copies to issuing office.

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
(Signature of person authorized to sign)		 (Signature of Contracting Officer)	5/14/0

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) CODE	
8. NAME AND ADDRESS OF CONTRACTOR VECO Rocky Mountain, Inc. 9000 E. Nichols Avenue Suite 250 Englewood, CO 80112		(X)	9A. AMENDMENT OF SOLICITATION NO.
Attn: Mike McKibben			9B. DATED (SEE ITEM 11)
CODE	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.

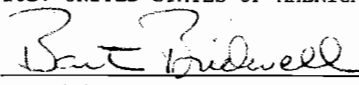
(X)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 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 CPF</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) 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)

See attached

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

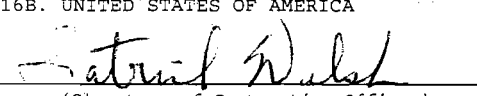
(X)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN 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)		 (Signature of Contracting Officer)	8/31/04

**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.

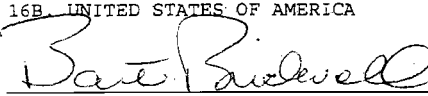
14. DESCRIPTION OF AMENDMENT / MODIFICATION (Organized by UCF section headings, including solicitation / contract subject matter where feasible.)
See attached.

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 / CSM	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.	
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.

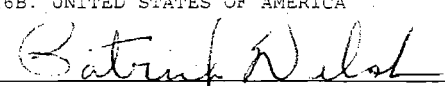
(X)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 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) 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

